December 22, 2023

Christian Mercurio
Vice President Planning
& Development
Mohawk Valley EDGE
584 Phoenix Drive
Rome, NY 13441

RE: FORMER MANUFACTURING SITE PHASE II ENVIRONMENTAL SITE ASSESSMENT

To Whom It May Concern:

HRP Associates, Inc. (HRP) has completed a Phase II Environmental Site Assessment (ESA) of the property located at 510-514 West Liberty Street, Rome, New York (herein referred to as the "Site"). Based on HRP's information collected to date, HRP offers the following recommendations:

Suspect asbestos containing materials (ACM) (including pipe wrap, vinyl floor tile, window glazing compound, and dry wall) were observed inside or along the exterior of the manufacturing building. An asbestos survey should be conducted to determine if ACM are present within the Site building.

SVOCs and metals are present on-site at concentrations exceeding Restricted Residential Use Soil Cleanup Objectives in surface and subsurface soils. Additionally, SVOCs are present in Site groundwater at concentrations exceeding applicable Technical and Operational Guidance Series regulatory standards. Exposure pathways to sensitive receptors are limited under the current use of the Site, however, impacted soils should be managed to protect potential receptors during redevelopment and future use. Based on the data collected and the intended future use of the Site, it may be an appropriate path forward to redevelopment to enter the NYSDEC Brownfields Cleanup Program, the Environmental restoration program, or to manage Site soils in accordance with NYSDEC 6NYCRR Part 360.

If you have any questions or require additional information, please feel free to contact HRP at (518) 877-7101.

Sincerely,
HRP Associates, Inc.

Cassandra George
Senior Project Consultant

Mark Wright, P.G., CSP
Contract Manager

Attachments

MOVE YOUR ENVIRONMENT FORWARD

PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

Former Manufacturing Property
510-514 West Liberty Street
Rome, New York 13340

Prepared For:

Christian Mercurio
Vice President Planning and Development
Mohawk Valley EDGE
584 Phoenix Drive
Rome, NY 13441

Prepared By:

HRP Associates, Inc.
1 Fairchild Square, Suite 110
Clifton Park, NY 12065

HRP #: MOH1000.P2

Issued On: December 22, 2023

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Former Manufacturing Site
510-514 West Liberty Street
Rome, New York

Consultant Information:

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HRP Project No. MOH1000.P2

Client Information:

Christian Mercurio
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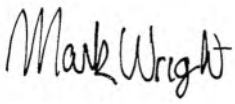
Report Date: 12/22/2023

Report Author:

Cassandra George
Senior Project Consultant

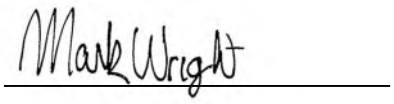
Project Manager:



Mark E. Wright, P.G., CSP
Contract Manager

QEP Certification:

I, Mark Wright, certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.



Mark Wright - Contract Manager

1.0 INTRODUCTION

This report presents the results of the Phase II Environmental Site Assessment (ESA) completed by HRP Associates, Inc. (HRP) in June 2023 at the Former Manufacturing Site located at 510-514 West Liberty Street, Rome, New York (referred to herein as the Site) (**Figure 1**). The investigation assessed environmental impacts associated with the past uses of the Site as a textile mill, an unknown manufacturer, and an automobile repair shop. The Phase II ESA was completed for the Mohawk Valley Economic Development Growth Enterprises Corporation (Mohawk Valley EDGE).

Interpretations presented within this report are based primarily on the investigations described herein. Applicable data from available documents and environmental investigations in the area surrounding the Site have been included in sections of this report.

1.1 Report Organization

The text of this report is divided into seven sections. Immediately following the text are the figures, tables, and appendices. A summary of each report section is provided below:

Section 1.0 Introduction: Report organization followed by Site description, a Site commercial/industrial history, previous environmental investigations and records, and description of identified areas of concern.

Section 2.0 Physical Characteristics of the Site: Includes descriptions of physical characteristics, including Site topography, soils, geology, and hydrogeology.

Section 3.0 Field Activities: Summarizes field activities associated with the Phase II ESA, including subsurface soil and groundwater investigations.

Section 4.0 Nature and Extent of Contamination: Presents the analytical results of soil and groundwater sampling performed for the Phase II ESA.

Section 5.0 Conclusions: Presents a discussion of the results and conclusions for the Site.

Section 6.0 Recommendations: Presents a discussion of the recommendations for the Site.

Section 7.0 References: Provides a list of references used throughout this report.

1.2 Site Description

The Former Manufacturing Site is located at 510-514 West Liberty Street in the City of Rome, Oneida County, New York, (Tax Parcel 242.006-0003-063). The Site location is depicted on **Figure 1**.

The 0.86-acre Site is occupied by a two-story, 9,544 square foot manufacturing building and a 209 square foot outbuilding that includes a basement. The manufacturing building consists of a two-story southern portion, historically used for textile manufacturing, and a single-story northern portion, historically used as a maintenance garage. The Site buildings are currently vacant. The remainder of the Site includes a partially paved area in the northern portion of the Site, a grass and vegetated area in the western portion of the Site, and a lumber pile is located in the northwest portion of the Site. A Site plan depicting Site features, AOCs, and proposed investigation locations is included as **Figure 2**.

Land use in the vicinity of the Site consists of mostly residential properties with some commercial properties.

Properties immediately adjacent to the Site are described below.

North:
- West Park Street; and
- Residential properties.

South:
- West Liberty Street; and
- Residential Properties.

East:
- 508 West Liberty Street, listed as NYSDEC Site No. E633058 a Class C (Completed) site in the Environmental Restoration Program.

West:
- Wood Creek.

1.3 Site Industrial/Commercial History

The Site has been developed for industrial manufacturing purposes since at least 1884. The Site operated as a brewery by Vidvard's Brewery in 1888. The Columbia Knitting Mill and Sinnott Textile Corporation operated on-site from approximately 1904 to 1924 and 1930 to 1949, respectively. Additionally, Ammon Milk Products occupied the Site in 1921, however it is unknown what operations took place and when they vacated the Site. The Site was then utilized as multi-tenant apartments in 1936. Rome Tobacco Company utilized the Site for manufacturing purposes from approximately 1949 until at least 1969. The Salvation Army also occupied the Site from approximately 1974 to 1979. X-Cel Enterprises occupied the Site from approximately 1979 until 1989 and operations at that time are unclear, however, the facility is listed as a RCRA Small Quantity Generator, permitted to generate nonhalogenated solvents, benzene, and xylene. The Site was most recently occupied by residential tenants until approximately 2017.

1.4 Previous Environmental Investigations and Records

Two Phase I ESAs have been performed at the Site to-date.

510-514 West Liberty Street Phase I ESA
Prepared by Barton & Loguidice, D.P.C. – February 2020

Barton & Loguidice, D.P.C. (B & L) was retained by the City of Rome to conduct a Phase I ESA of the Site.

The following Recognized Environmental Conditions (RECs) were identified by B & L at the Site.

- Historical uses of the site include a textile mill, an unknown manufacturer (X-Cel Enterprises) and an automobile repair shop. Data on use, storage, and disposal of petroleum products or hazardous materials has not been obtained during the Phase I ESA for the periods when the Site was used for industrial uses. The potential for releases of petroleum products or hazardous materials from past industrial use of the Site is a REC.

- The potential presence of a 300-gallon underground storage tank (UST) of unknown condition represents a material threat to release its contents and is considered to be a REC.

The following data gaps were identified by B & L at the Site.

- Large areas of the floors in the buildings were obstructed from view due to the presence of equipment, parts and miscellaneous stored items.

- The basement of the outbuilding was accessible, but the floor surface was not readily visible due to a layer of ice causing safety concerns.

- Two to three inches of snow cover prevented visual inspection of the ground surface at the site.

- Interviews and documents were not obtained for the period that the site was used for manufacturing.

510-514 West Liberty Street Phase I ESA
Prepared by HRP Associates, Inc. – December 2022

HRP was retained by Mohawk Valley EDGE (MVEDGE) to perform a review and addendum of the B & L Phase I ESA.

The following RECs were identified by HRP at the Site.

- The presence of standing petroleum liquid and petroleum staining on the floor of the garage around the metal petroleum cannister case is evidence of a release and is therefore considered a REC.
- The PBS database lists two historic #2 fuel oil USTs on-site associated with X-Cel Enterprises. One UST is listed as in-service while the other is listed as closed. The locations and current

status of USTs is unknown, and tank closure documents were not available for review. The unknown location and status of current/former petroleum USTs located on-site, and the lack of tank closure documents is considered a REC.

- Industrial use and manufacturing operations occurred on-site between the late 1800s to the early 2000s. The Site was registered as a RCRA small quantity generator of hazardous wastes including non-halogenated solvents, benzene, and xylene. Specific operations associated with the use, storage, and disposal of hazardous substances and petroleum products in the Site's industrial history are unknown. The potential for the release of petroleum and hazardous substances pre-RCRA regulation is considered a REC.

- Many drums inside of the Site buildings were unlabeled, turned over, and rusted. It is unknown what these drums contained, or if a release occurred. Information relating to the historic usage, storage, and disposal of petroleum products and hazardous substances in the manufacturing building and outbuilding was not available for review. The presence of these drums on-site is considered a REC.

Additionally, HRP identified several features of interest during the review of historical documents and Site visits. HRP identified:

- A former automotive storage house located on the southern portion of the Site (Automotive Storage House 1).
- A former automotive storage house located on the northern portion of the Site (Automotive Storage House 2).
- A former coal house located in the central portion of the Site.
- A waste oil burner and 55-gal drums located in the basement of the Outbuilding.
- A historic 255-gal above ground storage tank (AST).

The former use of the Site as a knitting mill was identified as significant due to the common historic use of solvents in the wool scouring, fabric finishing, and yarn dyeing and finishing processes.

1.5 Areas of Concern (AOCs)

Based on the findings of the Phase I ESAs, HRP identified the following AOCs to be investigated as part of the Phase II ESA:

1. The Garage Area of the manufacturing building to identify potential impacts related to:
    a. Standing petroleum product and leaking containers observed in the metal containment unit and staining observed on the concrete floor near the unit.
    b. Unlabeled 55-gallon drums and household cleaners/solvents.
    c. A 225-gallon unregistered fuel oil AST
2. The textile manufacturing building to identify potential releases of petroleum and hazardous substances due to former manufacturing operations.
3. The historic footprint of Automotive Storage House 1 to identify potential impacts due to the use of petroleum products.
4. The historic footprint Automotive Storage House 2 to identify potential impacts due to the use of petroleum products.
5. In the historic footprint of a former coal house to identify potential impacts due to coal storage.

6. The outbuilding to identify potential releases of petroleum or hazardous substances from the 55-gallon drums and waste oil burner located in the basement.
7. The two USTs registered to the Site to identify the locations of the USTs and potential impacts related to the release of No. 2 fuel oil.

AOCs and investigation locations are depicted in **Figure 2**.

1.6 Contaminants of Concern (COCs)

Based on the findings of the Phase I ESA, HRP identified the following contaminants of concern (COCs) to be investigated as part of the Phase II ESA:

- Volatile organic compounds (VOCs) associated with:
  - Wastes generated by X-Cel Enterprises which included non-halogenated solvents, benzene, and xylene.
  - Historical textile manufacturing operations which may have used chlorinated halogenated solvents such as PCE and TCE, and non-halogenated solvents.
  - Petroleum products presently and historically stored throughout the Site.
- Polyaromatic hydrocarbons (PAHs) associated with:
  - Petroleum products presently and historically stored throughout the Site.
  - Coal and coal ash historically stored in the former coal house.
- Metals associated with:
  - Historic automotive maintenance in the garage and former automotive storage houses.
  - Coal and coal ash stored in the former coal house.

In addition to the contaminants described above, the presence of the following contaminants will be evaluated to satisfy investigation requirements necessary for admittance into NYSDEC remediation programs:

- Semi-volatile organic compounds (SVOCs)
- Polychlorinated biphenyls (PCBs)
- Chlorinated pesticides
- Chlorinated herbicides
- 1,4-dioxane
- Per-and polyfluoroalkyl substances (PFAS)

2.0 PHYSICAL CHARACTERISTICS OF THE SITE

The following section discusses the physical characteristics and setting of the Site.

2.1 Site Topography

Topography of the Site slopes gently to the west towards Wood Creek. The eastern boundary of the Site lies approximately at 455 feet above mean sea level (ft amsl) while the western boundary lies approximately at 449 ft amsl. Topography of the surrounding area, within one mile of the Site, is relatively flat sloping gently south.

2.2 Soils

According to the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS), the Site is entirely composed of Alton-Urban land complex, 0 to 3 percent slopes. The typical soil profile for Alton-Urban land complex is gravelly loam followed by very gravelly fine sandy loam, very gravelly sandy loam, then very gravelly loamy sand. Surficial geology at the Site is identified as outwash sand and gravel on the Hudson Mohawk Sheet of the Surficial Geologic Map of New York State (Donald H., Cadwell, Robert J. Dinean, 1987). The unit ranges from 2 to 20 meters in thickness and is predominantly composed of coarse to fine gravel with sand and proglacial fluvial deposits.

Soil borings advanced during the Phase II ESA indicated that Site soils generally consisted of fill with two distinct, location dependent fill compositions identified. Subsurface soils beneath the Garage Area and the Textile Manufacturing Building were generally composed of gravelly silt containing trace amounts of fill materials including metal slag, cinders, ash, brick, and wood at depths ranging from 0 to 2 feet below grade (ft bg). Subsurface soils beneath sections of the Site not covered by the Garage Area and the Textile Manufacturing Building were generally composed of a sand and silt matrix with varying amounts of gravel and contained trace amounts of fill material including cinders, ash, brick, and wood at depths ranging from 0 to 15 ft bg. The presence of these soils suggests that imported fill was brought to the Site in the past to build up the area for construction and land use associated with historic Site use. Native soils consisting of clay were generally observed beneath fill material at depths ranging from 15 to 20 ft bg in areas not covered by the Garage Area or the Textile Manufacturing Building.

2.3 Geology

Site bedrock geology is identified as the Utica Shale on the Hudson Mohawk Sheet of the Bedrock Geologic Map of New York State (Fischer, et al., 1970). This unit is described as a black-shale mudstone bedrock that belongs to the Lorraine, Trenton, and Black River groups. Bedrock was not encountered during Site investigation activities.

2.4 Hydrogeology

Surface Water

Wood Creek is located west and adjacent to the Site. Wood Creek is listed as a Class D waterbody and identified on the NYSDEC Waterbody Inventory/Priority Waterbodies List (PWL) as ID No. 0703-0012.

Groundwater

Three overburden monitoring wells, MW-1, MW-2, and MW-3 were installed as part of the Phase II ESA. Depth to water measurements recorded at the three monitoring wells on June 22, 2023 ranged from 12.14 to 14.10 feet below top of casing and indicate groundwater flow is to the west, towards Wood Creek.

Nine active water supply wells were reported by the USGS, USDS PWS, and State Databases within 1.0 mile of the Site with the closest water supply well located approximately 800 feet from the Site.

3.0 FIELD ACTIVITIES

Field activities were completed at the Site in accordance with the Site-specific Quality Assurance Project Plan (QAPP), Former Manufacturing Property, 510-514 West Liberty Street, Rome, New York 13340, dated May 3, 2023. A description of the field activities conducted during this Phase II ESA is presented in this Section.

Deviations based on field conditions are noted in **Section 3.5**. The investigation tasks described in the Site-specific QAPP utilized the NYSDEC's *DER-10, Technical Guidance for Site Investigation and Remediation*, dated May 2010 (DER-10). HRP followed the procedures outlined in the QAPP and Health and Safety Plan (HASP).

Field work for this Phase II ESA was conducted in several mobilizations to the Site and included the following tasks:

- A ground penetrating radar (GPR) survey conducted to identify subsurface utilities and anomalies on-site (June 12, 2023);
- Installation of nine soil borings (June 12 through Jun 13, 2023);
- Installation of three hand borings (June 13, 2023);
- Collection of three hand boring soil samples and nine subsurface soil samples from the three hand borings and the nine soil borings for laboratory analysis (June 12 through June 13, 2023);
- Installation of three permanent 2-inch diameter overburden monitoring wells and one temporary 1-inch diameter overburden monitoring well (June 13, 2023);
- Collection of one groundwater samples from both the temporary monitoring well and the sump located in the basement of the Outbuilding (June 13, 2023);
- Development of three permanent 2-inch diameter overburden monitoring wells (June 13, 2023);
- Completion of a relative elevation Site survey (June 13, 2023); and
- Collection of three groundwater samples from the three newly installed monitoring wells (June 22, 2023).

3.1 Geophysical Investigations

On June 12, 2023, a ground penetrating radar (GPR) survey was conducted across the Site by American Geophysics. GPR surveying is a nonintrusive, subsurface geophysical investigation technique that detects subsurface structures by transmitting electromagnetic waves from an antenna into the ground. The antenna then monitors the strength and time delay of the return signal. The return signal is then evaluated for any anomalies, which by their size, shape and orientation can be interpreted as voids, USTs, utility pipelines, soil-bedrock interface or areas of different sediment compaction. A radio frequency (RF) line locator was also used to identify subsurface utility lines based on the presence of 120 hertz signal (electric) and transmitted signals from the RF transmitter.

The objective of the survey was to clear soil boring locations on-site, mark utilities entering the Site, and identify subsurface anomalies including USTs. A 10-foot radius was scanned around each of the nine proposed soil boring locations and no anomalies were identified.

The GPR Survey report provided by American Geophysics is included in **Appendix A**.

3.2 Soil Characterization

To characterize the Site soils and to investigate impacts related to historic Site operations, HRP and Nature's Way Contracting (NW Contracting) mobilized to the Site on June 12, 2023, and installed soil borings in order to log, screen, and collect soil samples. A total of three hand borings (HB-1 through HB-3) were installed via hand auger. Prior to hand boring activities, NW Contracting cored holes through the concrete slab of the Garage Area and the Textile Manufacturing Building utilizing a concrete coring bit. HRP advanced a stainless-steel auger into the soil approximately 1 foot below the concrete slab of the building.

In addition to hand borings, nine soil borings (SB-1 through SB-9) were advanced by NW Contracting using a GeoProbe 66DT track mounted drill rig to a total depth of 20 ft bg. Soil samples were collected continuously with a macro-core sampler in five-foot intervals. All non-disposable soil sampling equipment was decontaminated between samples using an Alconox wash followed by a clean water rinse. Boreholes that were not completed as monitoring wells were backfilled using drill cuttings and bentonite chips.

Soil samples were logged by grain size, color, moisture, presence of fill material, and obvious physical evidence of contamination (e.g. odor, staining). A small portion (1-2 oz.) of each sample was placed in a polyethylene zip top bag and allowed to attain ambient temperature before PID headspace analysis. PID headspace analysis measurements and soil descriptions are presented on soil boring logs included in **Appendix B**.

Following soil logging, HRP placed an adequate volume of soil from each sampling location into the appropriate containers. The sample jars were appropriately labeled and placed on ice in a cooler. Each soil sample collected was submitted under chain of custody to an Environmental Laboratory Approval Program (ELAP) certified laboratory.

All soil sample locations and AOCs are depicted in **Figure 2** and soil sampling information is summarized on **Table 1**.

3.3 Groundwater Investigations

Monitoring Well Installation

On June 12 and 13, 2023, three overburden monitoring wells (MW-1, MW-2, and MW-3) were installed by NW Contracting. The overburden wells were installed using a track-mounted GeoProbe 66DT drill rig. Monitoring wells MW-1, MW-2, and MW-3 were installed at the soil boring SB-2, SB-6, and SB-9 locations, respectively. Each monitoring well was installed to a depth of 18 ft bg with 10-foot screens. Monitoring well MW-2 was installed in response to field observations which noted soil staining present during the installation of soil boring SB-6. Monitoring wells were constructed of 2-inch diameter, schedule 40 PVC solid well pipe riser and 10-slot screen, positioned to intercept the water table. The annular space around each well screen was backfilled with #0 filter sand and sealed with bentonite chips. Each well was finished with a stick-up protective cover. Well construction logs can be found in **Appendix B**.

Methods of Development

HRP mobilized to the Site on June 12, 2023, to develop the newly installed monitoring wells. HRP developed the wells using a submersible "Whale" pump and dedicated high-density polyethylene tubing to pump and surge the water column. Water quality field parameters including temperature, pH, dissolved oxygen, oxygen reduction potential, and conductivity were recorded during the development of each well. Pumping and surging was continued at each well until water quality parameters (other than turbidity) stabilized through three consecutive readings within 10% and turbidity was reduced below 50 nephelometric turbidity units (NTU). Due to poor recovery at monitoring well MW-1, a bailer was used to surge the water column and a peristaltic pump was used to purge. Non-disposable equipment was decontaminated prior to use in and between each well. Care was taken not to introduce contaminants to the equipment during well development. All development waters were emptied into a clean 5-gallon pail for approximate volume measurement and were then transferred to a 55-gallon steel drum for future off-site disposal. Well development logs including water quality field parameters, depth to water measurements and purge volumes can be found in **Appendix B**.

Temporary Well

On June 13, 2023, a temporary overburden monitoring well (TW-1) was installed at soil boring location SB-5. The monitoring well was constructed of 1-inch diameter, schedule 40 PVC solid well pipe riser, 10-slot screen, and was positioned to intercept the water table.

On June 13, 2023, a grab groundwater sample from the sump within the Outbuilding basement was collected. The sump was approximately 1 foot by 1 foot and contained stagnant water. The sump was built into the concrete slab of the basement floor and located in the southwest corner of the Outbuilding basement.

Sampling Methods and Procedures

Groundwater wells were sampled in general accordance with Environmental Protection Agency (EPA) low-flow techniques as described in the Site-specific QAPP. Monitoring well sampling data was recorded in a groundwater sampling data sheet and are provided in **Appendix B**.

To evaluate the groundwater quality beneath the Site, groundwater samples were collected from each of the monitoring wells (MW-1, MW-2, MW-3, and TW-1) as well as the sump located in the Outbuilding. Groundwater analytics are summarized in **Table 1**.

3.4 Site Survey

On June 13, 2023, a top of casing relative elevation survey was conducted for the purpose of preparing a groundwater contour map and determining groundwater flow direction. Top of casing elevations were surveyed relative to an arbitrary benchmark assigned an elevation of 100 feet.

3.5 Deviations from QAPP

During the Phase II ESA, deviations from the work plan were as follows:

- The hand boring proposed inside the Outbuilding could not be installed due to safety issues entering the building basement with the coring machine. A water sample was collected from the sump in the basement to characterize the location.

- During the monitoring well sampling event, MW-1 was purged dry before water quality field parameters could be stabilized. A groundwater sample was collected from the well immediately after sufficient recharge was achieved.

- A total of nine soil borings were installed and sampled from instead of the original 13 borings proposed. The number of borings was decreased due to a lack of impacts observed in the soil borings as they were installed.

- Temporary wells TW-1 and TW-2 were not installed near UST 1 as the UST was not identified by the GPR survey. Temporary well TW-1 was instead installed to the west of the Former Coal House Footprint due to observed impacts to soil.

4.0 NATURE AND EXTENT OF CONTAMINATION

To identify the nature and extent of contamination at the Site, HRP submitted soil and groundwater samples to Hampton-Clarke, Inc. a NYSDOH ELAP-certified laboratory for analysis of VOCs, SVOCs, PAHs 1,4-dioxane, PCBs, pesticides, herbicides, and metals (including mercury), and PFAS. Soil and groundwater samples analyzed for PFAS were submitted to Eurofins TestAmerica Laboratory (Eurofins), a NYSDOH ELAP-certified laboratory. Laboratory analytical reports are included in **Appendix C**. A NYSDEC-approved data validator, Analytical Quality Associates, provided data validation services for this project. Data qualifiers and their definitions are included in **Appendix D**. The presentation of results within this text does not include data qualifiers. Detected chemical compounds in the various media sampled as part of the Phase II ESA and the analytical results are presented in **Tables 2** through **4**. A general description of the various media sampled and analyzed is provided below.

Compounds detected in the various media tested during this SC were compared to the following New York State standards, criteria, and guidance values (SCGs):

- NYSDEC Division of Water Technical and Operational Guidance Series (TOGS 1.1.1); Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations dated October 1993; Revised June 1998; ERRATA Sheet dated January 1999; and Addendum dated April 2000.

- NYSDEC Regulation, 6 NYCRR Subpart 375-6, "Remedial Program Soil Cleanup Objectives" which applies to the development and implementation of the remedial programs for soil and other media set forth in subparts 375-2 through 375-4 [Inactive Hazardous Waste Disposal Site Remedial Program, Brownfield Cleanup Program, and Environmental Restoration Program] and includes the soil cleanup objective tables developed pursuant to ECL 27-1415(6).

  To be consistent with the current and future use as a commercial/industrial use property, soil analytical results for this investigation were compared against NYSDEC 6 NYCRR Part 375-6 Unrestricted Use (UU), Restricted Residential Use (RRU) Commercial Use (CU), Industrial Use (IU) Soil Cleanup Objectives (SCOs).

- Guidance values for soil contained in NYSDEC guidance document "Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) under NYSDEC's Part 375 Remedial Programs", dated February 2023 (NYSDEC guidance values).

- New York State Ambient Water Quality Guidance Values (Class GA), for 1,4-dioxane, perfluorooctane sulfonic acid (PFOS), and perfluorooctanoic acid (PFOA) as proposed in the 2021 Addendum to TOGS 1.1.1.

4.1 GPR Findings

During the GPR survey a tunnel was detected running between the small Outbuilding and Textile Manufacturing Building, and its detected edges were marked with pink paint. The entrance to the tunnel from the Outbuilding was sealed, and its entrance from the Textile Manufacturing Building was not found (during the investigation). The detected tunnel's width was measured at approximately 12 ft. Water and sanitary sewer were detected exiting the Textile Manufacturing Building from the southeast corner, and running south to West Liberty Street. Both were detected at depths of 4 to 4.5 ft bg and marked with blue (water) and green (sewer) paints and flags. Gas was detected entering the property from the south side at a depth of 3 ft bg, and running north towards the overgrown vegetation area at the west side of the Textile Manufacturing Building. It could not be confirmed where this line runs in the overgrown vegetation area, due to inaccessibility. The utility room where gas enters the Textile Manufacturing Building was observed at the west side of the building. The detected line was marked with yellow paint and flags

The two USTs identified during the Phase I ESA with unknown locations were specifically searched for utilizing the GPR survey. Neither UST was located during the survey.

4.2 Soils

Observations

Soil observations were generally consistent throughout the Site. Fill materials were observed in each of the soil borings and included ash, cinders, brick, and metal slag. Fill materials were generally observed in a sand or silty sand matrix which included medium to fine gravel. Native soils consisting of clay were observed at depths from 15 to 20 ft bg of each boring, with the exception of SB-8 which was completed at 4 ft bg upon drill rig refusal.

Obvious indications of contamination (e.g., staining, odors) were not observed in soil samples with the exception of SB-6. Odors and staining were observed at the approximate depth of the water table in boring SB-6. Maximum PID readings were detected at concentrations of 84.4 ppm. Odors and elevated PID readings were not detected in any of the other soil borings. Soil boring logs are included in **Appendix B.**

Analytical results

AOC 1 – Garage Area

A total of four soil samples were collected from two hand borings (HB-1 and HB-2) and from two soil borings (SB-1 and SB-2) to characterize soils beneath the Garage Area and in the general vicinity of the Garage Area. Soil sample analytics are summarized on **Table 1**.

VOCs, SVOCs, PCBs, and herbicides were not detected at concentrations exceeding SCGs in any of the four soil samples collected. Detected analytical compounds are presented on **Table 2**.

Pesticides, including 4,4'-DDD and 4,4'-DDT were detected at concentrations exceeding UU SCOs (but below IU and CU SCOs) in the soil sample collected from HB-1. Pesticide analytical results for soil samples are presented on **Table 2.**

Metals including copper, lead, and selenium were detected at concentrations exceeding UU SCOs in the soil sample collected from HB-1. Mercury was detected at concentrations exceeding UU SCOs in soil samples collected from HB-1 and SB-2. Lead and mercury were detected at concentrations exceeding RRU SCOs in the soil sample collected from HB-2. Arsenic was detected at a concentration exceeding IU SCOs in soil sampled collected from HB-1 and HB-2. Metals results for soil samples are presented on **Table 2**.

AOC 2 – Textile Manufacturing Area

A total of two soil samples were collected from one hand boring (HB-3) and from one soil boring (SB-9) to characterize soils beneath the Textile Manufacturing Area and in the general vicinity of the Textile Manufacturing Area. Soil sample analytics are summarized on **Table 1**.

VOCs, SVOCs, PCBs, herbicides, and pesticides were not detected at concentrations exceeding SCGs in any of the four soil samples collected. Detected analytical compounds are presented on **Table 2**.

Metals including copper, lead, and selenium were detected at concentrations exceeding UU SCOs in the soil sample collected from HB-3. Mercury was detected at a concentration exceeding RRU SCOs in soil sample collected from HB-3. Arsenic was detected at a concentration exceeding IU SCOs in soil sampled collected from HB-3. Metals analytical results for soil samples are presented in **Table 2**.

AOC 3 – Automotive Storage House 2

A total of two soil samples were collected from two soil borings (SB-8 and SB-9) to characterize soils in the general vicinity of the Automotive Storage House 2. Soil sample analytics are summarized on **Table 1**.

VOCs, SVOCs, PCBs, herbicides, and pesticides were not detected at concentrations exceeding SCGs in any of the two soil samples collected. Detected analytical compounds are presented on **Table 2**.

Metals including lead and mercury were detected at concentrations exceeding UU SCOs in the soil sample collected from SB-8. Metals analytical results for soil samples are presented in **Table 2**.

AOC 4 – Automotive Storage House 1

A total of one soil sample was collected from one soil boring (SB-7) to characterize soils in the general vicinity of the Automotive Storage House 2. Soil sample analytics are summarized on **Table 1**.

VOCs, SVOCs, PCBs, herbicides, and pesticides were not detected at concentrations exceeding SCGs in the soil sample collected. Detected analytical compounds are presented on **Table 2**.

The metal compound copper was detected at a concentration exceeding UU SCOs in the soil sample collected from SB-7. Metals analytical results for soil samples are presented in **Table 2**.

AOC 5 – Former Coal House

A total of three soil samples were collected from three soil borings (SB-3, SB-4, and SB-5) to characterize soils in the general vicinity of the Former Coal House. Soil sample analytics are summarized on **Table 1**.

VOCs, PCBs, pesticides, and herbicides were not detected at concentrations exceeding SCGs in any of the four soil samples collected. Detected analytical compounds are presented on **Table 2**.

The metal compound mercury was detected at a concentration exceeding UU SCOs in the soil sample collected from SB-3. Metals analytical results for soil samples are presented in **Table 2**.

The SVOC compound chrysene was detected at a concentration exceeding UU SCOs in the soil sample collected from SB-5. SVOCs including benzo(a)anthracene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were detected at concentrations exceeding RRU SCOs in the soil sample collected from SB-5. The SVOC compound benzo(a)pyrene was detected at a concentration exceeding IU SCOs in the soils sample collected form SB-5. SVOC analytical results for soil samples are presented on **Table 2**.

AOC 6 - Outbuilding

A total of one soil sample was collected from one soil boring (SB-6) to characterize soils in the general vicinity of the Outbuilding. Soil sample analytics are summarized on **Table 1**.

VOCs, SVOCs, metals, PCBs, herbicides, and pesticides were not detected at concentrations exceeding SCGs in any of the two soil samples collected. Detected analytical compounds are presented on **Table 2**.

4.3 Groundwater

Observations

On June 13, 2023, a grab groundwater sample was collected from temporary monitoring well TW-1 and from the Outbuilding sump. It was observed that the grab groundwater sample collected from temporary monitoring well TW-1, was excessively turbid during sample collection. During the low-flow sampling event conducted on June 22, 2023, groundwater samples were collected from monitoring wells MW-1, MW-2, and MW-3. No impacts to groundwater (e.g., odors, sheens) were observed during the low-flow sampling event. Groundwater monitoring logs are presented in **Appendix B**.

Analytical Results

Grab Groundwater Samples

A total of two grab groundwater samples were collected from the temporary well, TW-1, and from the Outbuilding sump and analyzed as described above for PAHs and VOCs.

VOCs were not detected at concentrations exceeding NYSDEC Class GA Criteria in either grab groundwater sample. The PAH benzo(b)fluoranthene was detected at a concentration of 2.0 μg/L which exceeds the NYSDEC Class GA Criteria. Sample results are presented in **Table 3**.

Monitoring Well Groundwater Samples

A total of three groundwater samples were collected from monitoring wells MW-1 through MW-3 and analyzed as described above. Sample results are presented below, on **Table 4**.

VOCs, SVOCs, PCBs, pesticides, and herbicides were not detected exceeding NYSDEC Class GA Criteria in the three samples collected. Detected analytical compounds for groundwater samples are presented on **Table 4**.

The metal compound manganese was detected at a concentration exceeding the NYSDEC Class GA Criteria in the groundwater sample collected form monitoring well MW-2. Metals analytical results for groundwater samples are presented on **Table 4**.

PFOS was detected at concentrations exceeding proposed NYSDEC Class GA Criteria in two of the three groundwater samples. The PFAS analytical results for the groundwater samples are presented on **Table 4**.

4.4 Data Validation and Usability

Analytical data obtained during the Phase II ESA were validated to evaluate the usability of the data. Data Usability Summary Reports (DUSRs) are provided in **Appendix D**. The DUSRs indicate which data are subject to limitations and identify certain data that are flagged as rejected and should not be used.

All data that are not qualified rejected, unusable (R) are considered usable, with estimated (J, J-, or UJ) data associated with a higher level of quantitative uncertainty. Based on our review of the DUSRs, the rejected and qualified data does not limit HRP's evaluation of the Site. Detailed information on data quality is included in the DUSR and included as **Appendix D**.

5.0 CONCLUSIONS

The goal of Phase II ESA is to determine if:

- Environmental impacts are present on the Site; and
- Contaminants of concern (identified in the Site-Specific QAPP) are present in soil and groundwater at concentrations which contravene applicable New York State standards, criteria, and guidance values (SCGs).

And additionally:

- To what extent do identified environmental impacts limit the future use of the Site?
- How do environmental impacts effect redevelopment costs associated with various potential uses for the Site?

The information collected during this investigation leads HRP to draw the following conclusions:

5.1 Site Soils

- Two types of distinguishable imported fill are present at the Site. One type of fill is beneath the Garage Area and Textile Manufacturing Building and another type of fill is present across the rest of the Site.
- Metals and pesticides detected in surface soils beneath the Garage Area and the Textile Manufacturing Area at concentrations exceeding SCGs can generally be attributed to historic fill likely associated with the construction of the buildings on-site. Analytical results from soil samples collected across the Site indicate impacts are generally limited to fill material located beneath the garage area and the textile manufacturing building.

- Subsurface soils across the Site do not appear to be grossly impacted by contaminants of concern. One location, soil boring SB-5, contained concentrations of SVOCs that exceeded SCGs, however SVOCs were not identified at the same concentrations from other locations at the Site. The SVOCs appear to be localized to this location.
- Based on concentrations of contaminants identified in surface soil, potential future use of the Site is limited by the concentrations exceeding SCGs. Current Site conditions contain soils that contain metals contamination that are capped by the concrete slab of the garage area. The textile manufacturing building does not have a concrete slab and the contaminated soil is exposed.

5.2 Groundwater

- PAHs were detected in the grab groundwater sample collected from temporary well TW-1 at concentrations exceeding SCGs.
- Groundwater samples collected from the monitoring wells and the Outbuilding sump contained no concentrations exceeding any SCGs.
- Groundwater at the Site does not appear to be impacted by any contaminants of concern.
- The detected concentrations are not indicative of a widespread groundwater issue and are unlikely to restrict redevelopment of the Site based on the planned continued use of the municipal drinking water supply.

6.0 RECOMMENDATIONS

Suspect asbestos containing materials (ACM) (including pipe wrap, vinyl floor tile, window glazing compound, and dry wall) were observed inside or along the exterior of the manufacturing building. An asbestos survey should be conducted to determine if ACM are present within the Site building.

SVOCs and metals are present on-site at concentrations exceeding Restricted Residential Use Soil Cleanup Objectives in surface and subsurface soils. Additionally, SVOCs are present in Site groundwater at concentrations exceeding applicable Technical and Operational Guidance Series regulatory standards. Exposure pathways to sensitive receptors are limited under the current use of the Site, however, impacted soils should be managed to protect potential receptors during redevelopment and future use. Based on the data collected and the intended future use of the Site, it may be an appropriate path forward to redevelopment to enter the NYSDEC Brownfields Cleanup Program, the Environmental restoration program, or to manage Site soils in accordance with NYSDEC 6NYCRR Part 360.

7.0 REFERENCES

Published Resources

- Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, October 22, 1993, Reissued June 1998, Division of Water Technical and Operational Guidance Series, New York State Department of Environmental Conservation.

- DER-10/ Technical Guidance for Site Investigation and Remediation, May 3, 2010, New York State Department of Environmental Conservation.

- Fisher, D.W., et. al., 1970, Geologic Map of New York, New York State Museum and Science Service, Map and Chart Series No. 15.

- Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs, February 2023, New York State Department of Environmental Conservation.

- Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Web Soil Survey. http://websoilsurvey.sc.egov.usda.gov/. Accessed [1/24/2021].

FIGURES

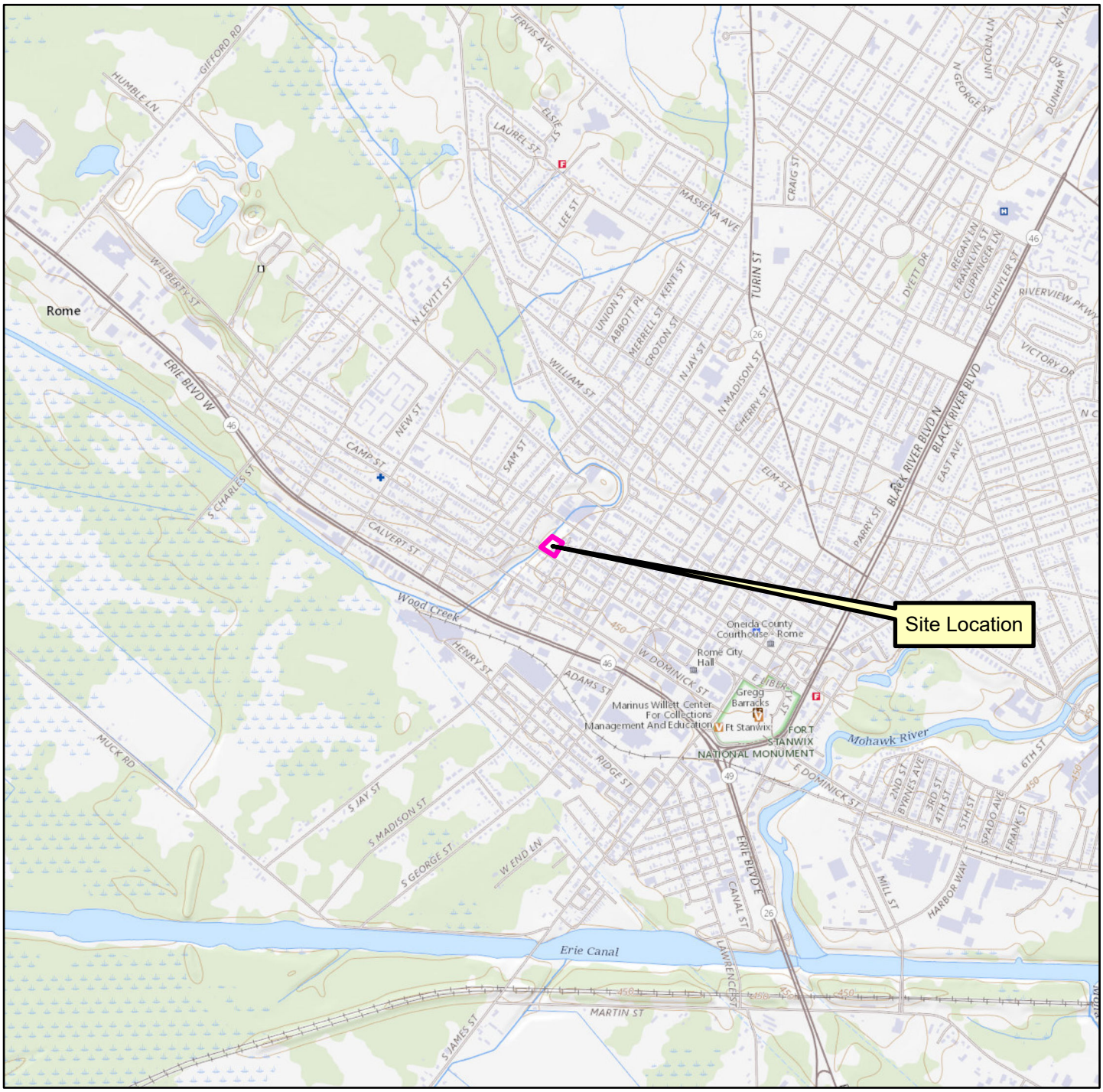


Figure 1
Site Location
510-514 West Liberty Street
Rome, New York
HRP # MOH1000.P2

USGS Quadrangle Information
Quad ID: 43075-B4
Name: Rome, New York

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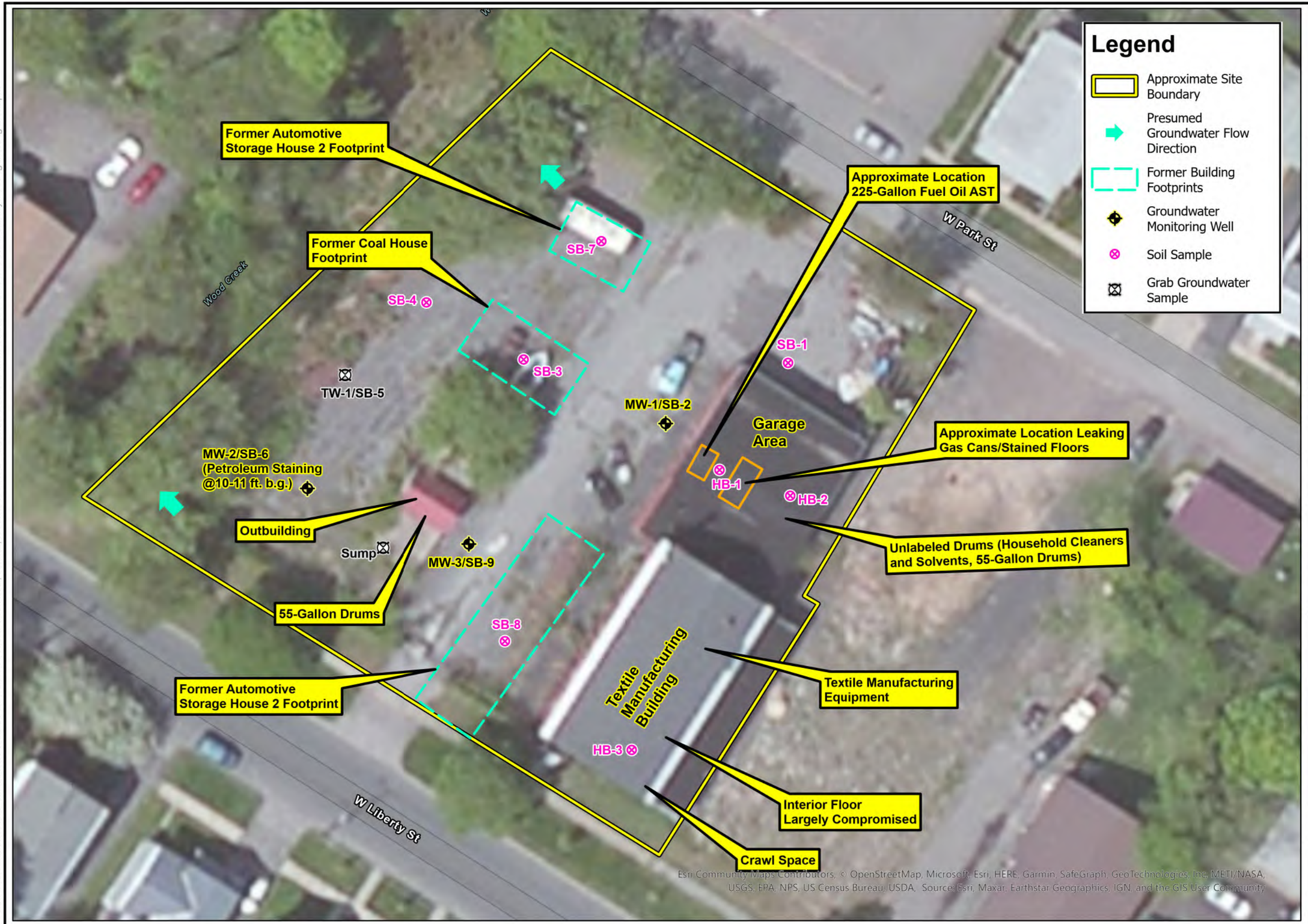

Legend

- Approximate Site Boundary
- Presumed Groundwater Flow Direction
- Former Building Footprints
- Groundwater Monitoring Well
- Soil Sample
- Grab Groundwater Sample

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Revisions					
No.					
Date					

Designed By:	Drawn By:	Reviewed By:
RL	BOB	PWM

Issue Date:	Project No:	Sheet Size:
08/11/2023	AMP0024MC	11x17

Site Plan with Investigation Locations

510-514
West Liberty Street
Rome, New York

Figure No.
2

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TABLES

Table 1
Soil Sampling Summary Table
Former Manufacturing Property
510-514 West Liberty Street,
Rome, New York
HRP Project # MOH1000.P2

Area of Concern (AOC)	Soil Boring ID / Depth (ft bg)	Soil Sample ID / Depth (ft bg)	GW Sample ID / Screened Interval (ft bg)	Sample Location and Observations	Analyses	Standards Exceeded	Release Area Identified
AOC-1 Garage Area	**HB-1** (0-1)	**HB-1** (0-1)	N/A	Within the garage. Investigate impacts to soil beneath garage in the area of unlabeled drums, 225-gallon AST, and leaking petroleum containers. Subsurface fill consisted of metal slag, ash, and cinders.	TCL VOCs EPA 8260 TCL SVOCs EPA 8270 TAL Metals EPA 6020B Mercury EPA 7471B TCL PCBs EPA 8082 Organochlorine Pesticides EPA 8081 Chlorinated Herbicides EPA 8151	Unrestricted SCO (Copper, Lead, Mercury, Selenium, 4,4-DDD, 4,4-DDT) Restricted Residential SCO/ Commercial SCO/ Industrial SCO (Arsenic)	**Soils beneath the Garage Area appear impacted with metals via subsurface fill. There is no evidence of release to fill, soil, or groundwater downgradient of the Garage Area.**
	SB-1 (0-20)	**SB-1** (10-14)	N/A	North of garage at entrance. Investigate impacts to soil at garage entrance, associated with historic automotive repair and maintenance activities. Subsurface fill consisted of brick and gravel.	TCL VOCs EPA 8260 PP Metals EPA 6020B Mercury EPA 7471B PAHs EPA 8270	None	
	SB-2 (0-20)	**SB-2** (0-1)	N/A	West/downgradient of garage. Evaluate impacts to soil downgradient of garage, associated with historic automotive repair and maintenance activities, potential impacts related to unlabeled drums, 225-gallon AST, and leaking petroleum containers. Subsurface fill consisted of brick and gravel.	TCL VOCs EPA 8260 PP Metals EPA 6020B Mercury EPA 7471B PAHs EPA 8270	Unrestricted SCO (Mercury) (Detection of 0.19 mg/kg, SCO is 0.18 mg/kg)	
	HB-2 (0-1)	**HB-2** (0-1)	N/A	Within the garage. Investigate impacts to soil beneath garage in the area of unlabeled drums, 225-gallon AST, and leaking petroleum containers. Subsurface fill consisted of metal slag, ash, and cinders.	TCL VOCs EPA 8260 TCL SVOCs EPA 8270 TAL Metals EPA 6020B Mercury EPA 7471B TCL PCBs EPA 8082 Organochlorine Pesticides EPA 8081 Chlorinated Herbicides EPA 8151	Unrestricted SCO (Selenium) Restricted Residential SCO (Lead, Mercury) Commercial SCO Industrial SCO (Arsenic)	
	SB-2 (0-20)*	N/A	**MW-1** (10-20)	West/downgradient of garage. Evaluate impacts to groundwater downgradient of garage, associated with historic automotive repair and maintenance activities, potential impacts related to unlabeled drums, 225-gallon AST, and leaking petroleum containers.	TCL VOCs EPA 8260 PP Metals EPA 6020B Mercury EPA 7470A PAHs EPA 8270 PFAS EPA 1633	None	
AOC-2 Textile Manufacturing Building	**HB-3** (0-1)	**HB-3** (0-1)	N/A	Investigate impacts to soil beneath manufacturing building associated with historic textile manufacturing operations, potential use of halogenated and non-halogenated solvents, petroleum, and other hazardous substances. Subsurface fill consisted of metal slag, ash, and cinders.	TCL VOCs EPA 8260 TCL SVOCs EPA 8270 TAL Metals EPA 6020B Mercury EPA 7471B TCL PCBs EPA 8082 Organochlorine Pesticides EPA 8081 Chlorinated Herbicides EPA 8151	Unrestricted SCO (Copper, Lead, Selenium) Restricted Residential SCO (Mercury) Commercial SCO/ Industrial SCO (Arsenic)	**Soils beneath the Textile Manufacturing Building appear impacted with metals via subsurface fill. There is no evidence of release to fill, soil, or groundwater downgradient of the Garage Area.**
	SB-9 (0-20)*	N/A	**MW-3** (10-20)	West/downgradient of automotive storage house. Investigate impacts to soil in downgradient of the southern former automotive storage house, associated with historic automotive repair activities.	TCL VOCs EPA 8260 PP Metals EPA 6020B Mercury EPA 7470A PAHs EPA 8270 PFAS EPA 1633	None	

Table 1
Soil Sampling Summary Table
Former Manufacturing Property
510-514 West Liberty Street,
Rome, New York
HRP Project # MOH1000.P2

Area of Concern (AOC)	Soil Boring ID / Depth (ft bg)	Soil Sample ID / Depth (ft bg)	GW Sample ID / Screened Interval (ft bg)	Sample Location and Observations	Analyses	Standards Exceeded	Release Area Identified
AOC-3 Automotive Storage House 2	**SB-8** (0-4)	**SB-8** (0-2)	N/A	Footprint of southern former automotive storage house. Investigate impacts to soil in footprint of the southern former automotive storage house, associated with historic automotive repair activities. Subsurface fill consists of gravel, brick, and cinder.	TCL VOCs EPA 8260 PP Metals EPA 6020B Mercury EPA 7470A PAHs EPA 8270	Unrestricted SCO (Lead, Mercury)	**Automotive Storage House 2 is not considered release area. Shallow subsurface fill is minorly impacted with metals but is not indicative of a release. Fill identified from 0 to 12 ft bg.**
	SB-9 (0-20)	**SB-9** (10-12)	N/A	West/downgradient of automotive storage house. Investigate impacts to soil in downgradient of the southern former automotive storage house, associated with historic automotive repair activities. Subsurface fill consists of brick and gravel.	TCL VOCs EPA 8260 PP Metals EPA 6020B Mercury EPA 7471B PAHs EPA 8270	None	
	SB-9 (0-20)*	N/A	**MW-3** (10-20)	West/downgradient of automotive storage house. Investigate impacts to soil in downgradient of the southern former automotive storage house, associated with historic automotive repair activities.	TCL VOCs EPA 8260 PP Metals EPA 6020B Mercury EPA 7470A PAHs EPA 8270 PFAS EPA 1633	None	
AOC-4 Automotive Storage House 1	**SB-7** (0-20)	**SB-7** (0.5-1)	N/A	Asphalt driveway west of manufacturing building, in the footprint/downgradient of former automotive storage houses on southeast portion of the Site. Investigate impacts to soil in footprint of the northern former automotive storage house, associated with historic automotive repair activities. Subsurface fill consists of cinders, ash, and gravel.	TCL VOCs EPA 8260 PP Metals EPA 6020B Mercury EPA 7470A PAHs EPA 8270	Unrestricted SCO (Copper)	**Automotive Storage House 1 is not considered release area. Shallow subsurface fill is minorly impacted with metals but is not indicative of a release. Fill identified from 0 to 16 ft bg.**
AOC-5 Former Coal House	**SB-3** (0-20)	**SB-3** (0-5)	N/A	Footprint of the former coal storage house. Evaluate impacts to soil in footprint of former coal storage house, associated with coal and coal ash. Subsurface fill consists of cinders and gravel.	TCL VOCs EPA 8260 PP Metals EPA 6020B Mercury EPA 7470A PAHs EPA 8270	Unrestricted SCO (Mercury)	**The Former Coal House is not considered a release area. The subsurface fill is impacted with metals and PAHs. Fill was identified from 0 to 15 ft bg.**
	SB-4 (0-20)	**SB-4** (10-12.5)	N/A	West/downgradient of the former coal storage house. Evaluate impacts to soil in footprint of former coal storage house, associated with coal and coal ash. Subsurface fill consists of brick, cinders, and ash.	TCL VOCs EPA 8260 PAHs EPA 8270	None	
	SB-5 (0-20)	**SB-5** (5-10)	N/A	West/downgradient of the former coal storage house. Evaluate impacts to soil in footprint of former coal storage house, associated with coal and coal ash. Subsurface fill consists of brick, cinders, wood, and ash.	TCL VOCs EPA 8260 PAHs EPA 8270 PP Metals EPA 6020B	Unrestricted SCO (Lead, Chrysene) Restricted Residential SCO (Benzo(a)anthracene, Benzo(a)fluoranthene, Indeno(1,2,3-cd)pyrene) Commercial SCO/ Industrial SCO (Benzo(a)pyrene)	
	N/A	N/A	**TW-1** (10-20)	West/downgradient of the former coal storage house. Evaluate impacts to groundwater in footprint of former coal storage house, associated with coal and coal ash.	TCL VOCs EPA 8260 PAHs EPA 8270	NYSDEC Class GA Criteria (Benzo[b]fluoranthene)	

Table 1
Soil Sampling Summary Table
Former Manufacturing Property
510-514 West Liberty Street,
Rome, New York
HRP Project # MOH1000.P2

Area of Concern (AOC)	Soil Boring ID / Depth (ft bg)	Soil Sample ID / Depth (ft bg)	GW Sample ID / Screened Interval (ft bg)	Sample Location and Observations	Analyses	Standards Exceeded	Release Area Identified
AOC-6 Outbuilding	N/A	N/A	**Sump**	Basement of Outbuilding. Evaluate impacts to water in sump associated with associated with unlabeled stored drums.	TCL VOCs EPA 8260 PAHs EPA 8270	None	**The Outbuilding is not considered a release area. Fill was identified from 0 to 15 ft bg.**
	SB-6 (0-20)	**SB-6** (10-11)	N/A	West/downgradient of Outbuilding. Evaluate impacts to groundwater associated with associated with unlabeled stored drums. PID hit of 84.4 at 10-15 ft bg. Staining at 10-11 ft bg. Subsurface fill consists of brick, gravel, and wood.	TCL VOCs EPA 8260 PP Metals EPA 6020B Mercury EPA 7470A PAHs EPA 8270	None	
	SB-6 (0-20)*	N/A	**MW-2** (10-20)	West/downgradient of Outbuilding. Evaluate impacts to water in sump associated with associated with unlabeled stored drums.	TCL VOCs EPA 8260 TCL SVOCs EPA 8270 TAL Metals EPA 6020B Mercury EPA 7470A TCL PCBs EPA 8082 Organochlorine Pesticides EPA 8081 Chlorinated Herbicides EPA 8151 1,4-Dioxane EPA 8270 SIM PFAS EPA 1633	None	
	N/A	N/A	**TW-1** (10-20)	West/downgradient of the former coal storage house. Evaluate impacts to groundwater in footprint of former coal storage house, associated with coal and coal ash.	TCL VOCs EPA 8260 PAHs EPA 8270	NYSDEC Class GA Criteria (Benzo[b]fluoranthene)	
AOC-7 UST Inside of Garage Area	N/A	N/A	N/A	No UST was identified during the GPR survey. As a result, the AOC was not investigated.	N/A	N/A	**The UST inside of the Garage Area is not considered a release area.**

Notes:
TCL = Target Compound List
TAL = Target Analyte List
PFAS = Per and Polyfluoroalkyl Substances
VOCs = Volatile Organic Compounds
SVOCs = Semi Volatile Organic Compounds
PP = Priority Pollutants
PCBs = Polychlorinated Biphenyls
AOC = Area of Concern
ft bg = feet below grade

* Indicates that the soil boring is referenced as the parent boring to the monitoring well installed within the same borehole. The soil boring is not necessarily associated with the AOC, but the monitoring well is.

Table 2
Laboratory Analytical Results (Detections Only)
Site Soils
Former Manufacturing Property
510-514 West Liberty Street,
Rome, New York
HRP Project # MOH1000.P2

Sample ID:	Part 375 Unrestricted	Part 375 Protection of Groundwater	Part 375 Restricted Residential	Part 375 Commercial	Part 375 Industrial	HB-1	HB-2	HB-3	SB-1	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8	SB-9
Sample Depth (ft bg):						(0-1)	(0-1)	(0-1)	(10-14)	(0-5)	(10-12.5)	(5-10)	(10-11)	(0.5-1)	(0-2)	(10-12)
Date Collected:						6/13/2023	6/13/2023	6/13/2023	6/12/2023	6/12/2023	6/12/2023	6/12/2023	6/12/2023	6/12/2023	6/12/2023	6/12/2023
Metals (mg/kg)																
Aluminum	NP	NP	NP	NP	NP	**1200 J**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	NP	NP	NP	NP	NP	**9.30 J**	**35 J**	**1.3 J**	< 0.88	< 0.9	< 0.95	< 1.0	< 0.96	< 0.96	< 0.88	< 0.96
Arsenic	13	16	16	16	16	**69 J**	**190 J**	**210 J**	**4.8**	**4.9**	**3.3**	**11**	**4.6**	**9.9**	**6.5**	**3.7**
Barium	350	820	400	400	10000	**150 J**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	7.2	47	72	590	2700	**0.35**	< 0.24	**0.61**	< 0.22	**0.23**	**0.28**	**0.38**	**0.32**	**0.74**	**0.30**	**0.24**
Calcium	NP	NP	NP	NP	NP	**3500 J**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium, trivalent	30	NP	180	1500	6,800	**8.8**	**4.6**	**11**	**7.8**	**6.2**	**7.3**	**5.8**	**8.3**	**9.2**	**8.8**	**7.0**
Cobalt	NP	NP	NP	NP	NP	**3.9 J**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	50	1720	270	270	10000	**73 J**	**30 J**	**85 J**	**28**	**18**	**17**	**36**	**20**	**53**	**35**	**18**
Iron	NP	NP	NP	NP	NP	**18000**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	63	450	400	1000	3900	**350**	**710**	**87**	**3.4**	**35**	**6.3**	**130**	**5.5**	**42**	**90**	**11**
Magnesium	NP	NP	NP	NP	NP	**380 J**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	1600	2000	2000	10000	10000	**71 J**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.18	0.73	0.81	2.8	5.7	**0.23**	**0.82**	**1.4**	< 0.092	**0.19**	< 0.099	**0.13**	< 0.10	**0.12**	**0.29**	< 0.10
Nickel	30	130	310	310	10000	**8.2**	**5.0**	**15**	**12**	**8.8**	**9.4**	**9.7**	**12**	**14**	**12**	**12**
Potassium	NP	NP	NP	NP	NP	**820 J**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	3.9	4	180	1500	6800	**14 J**	**21 J**	**38 J**	< 2.2	< 2.2	< 2.4	< 2.5	**2.6**	**2.6**	< 2.2	< 2.4
Silver	2	8.3	180	1500	6800	**0.27 J**	< 0.24	< 0.22	< 0.22	< 0.22	< 0.24	< 0.25	< 0.24	< 0.24	< 0.22	< 0.24
Sodium	NP	NP	NP	NP	NP	**280**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	NP	NP	NP	NP	NP	**1.6 J**	< 0.48	**0.97 J**	< 0.44	< 0.45	< 0.48	< 0.50	< 0.48	< 0.48	< 0.44	< 0.48
Vanadium	NP	NP	NP	NP	NP	**11**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	109	2480	10000	10000	10000	**88 J**	**64 J**	**53 J**	**36**	**63**	**29**	**85**	**34**	**59**	**74**	**29**
Pesticides (mg/kg)																
4,4''-DDD	0.0033	14	13	92	180	**0.0045 J**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,4''-DDT	0.0033	136	7.9	47	94	**0.026**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.005	0.1	0.2	1.4	2.8	**0.0029 J**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semi Volatile Organic Compounds (SVOCs) (mg/kg)																
2-Methylnaphthalene	NP	NP	NP	NP	NP	**0.050**	< 0.040	< 0.037	< 0.037	< 0.037	< 0.040	< 0.042	< 0.040	< 0.040	< 0.11	< 0.040
Acenaphthylene	100	107	100	500	1000	**0.047**	< 0.040	< 0.037	< 0.037	< 0.037	< 0.040	**0.37**	< 0.040	< 0.040	< 0.11	< 0.040
Anthracene	100	1000	100	500	1000	**0.069**	**0.041**	**0.042**	< 0.037	< 0.037	< 0.040	**0.30**	< 0.040	< 0.040	**0.18**	< 0.040
Benzo(a)anthracene	1	1	1	5.6	11	**0.26**	**0.14**	**0.048**	< 0.037	**0.062**	**0.046**	**1.1**	< 0.040	**0.086**	**0.66**	< 0.040
Benzo(a)pyrene	1	22	1	1	1.1	**0.26**	**0.18**	< 0.037	< 0.037	**0.083**	**0.045**	**1.3**	< 0.040	**0.11**	**0.77**	< 0.040
Benzo(b)fluoranthene	1	1.7	1	5.6	11	**0.44**	**0.20**	**0.12**	< 0.037	**0.10**	**0.048**	**1.5**	< 0.040	**0.13**	**0.89**	< 0.040
Benzo(ghi)perylene	100	1000	100	500	1000	**0.18**	**0.11**	< 0.037	< 0.037	**0.058**	< 0.040	**0.95**	< 0.040	**0.082**	**0.45**	< 0.040
Benzo(k)fluoranthene	0.8	1.7	3.9	56	110	**0.13**	**0.066**	< 0.037	< 0.037	< 0.037	< 0.040	**0.42**	< 0.040	< 0.040	**0.32**	< 0.040
Carbazole	NP	NP	NP	NP	NP	**0.041**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	1	1	3.9	56	110	**0.56**	**0.14**	**0.25**	< 0.037	**0.071**	**0.044**	**1.3**	< 0.040	**0.11**	**0.72**	< 0.040
Dibenzo(a,h)anthracene	0.33	1000	0.33	0.56	1.1	**0.061**	< 0.040	< 0.037	< 0.037	< 0.037	< 0.040	**0.24**	< 0.040	< 0.040	**0.14**	< 0.040
Dibenzofuran	7	210	59	350	1000	**0.046**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	100	1000	100	500	1000	**0.55**	**0.18**	**0.24**	< 0.037	**0.067**	**0.074**	**2.4**	< 0.040	**0.069**	**1.1**	< 0.040
Fluorene	30	386	100	500	1000	< 0.040	< 0.040	< 0.037	< 0.037	< 0.037	< 0.040	**0.13**	< 0.040	< 0.040	< 0.11	< 0.040
Indeno(1,2,3-cd)pyrene	0.5	8.2	0.5	5.6	11	**0.15**	**0.097**	< 0.037	< 0.037	**0.050**	< 0.040	**0.75**	< 0.040	**0.064**	**0.41**	< 0.040
Naphthalene	12	12	100	500	1000	**0.068**	**0.021**	**0.012**	< 0.0092	< 0.0094	**0.013**	**0.11**	< 0.010	< 0.010	**0.029**	< 0.010
Phenanthrene	100	1000	100	500	1000	**0.49**	**0.14**	**0.13**	< 0.037	**0.041**	**0.095**	**1.8**	< 0.040	**0.061**	**0.69**	< 0.040
Pyrene	100	1000	100	500	1000	**0.47**	**0.16**	**0.042**	< 0.037	**0.071**	**0.070**	**2.5**	< 0.040	**0.074**	**1.1**	< 0.040
Volatile Organic Compounds (VOCs) (mg/kg)																
2-Butanone (MEK)	0.12	0.12	100	500	1000	< 0.0026	NA	NA	< 0.0018	< 0.0020	**0.0072**	< 0.0024	**0.0049**	< 0.0023	< 0.0020	< 0.0018
Acetone	0.05	0.05	100	500	1000	< 0.013	NA	NA	< 0.0092	< 0.0098	**0.035 J**	< 0.012	**0.023 J**	< 0.012	< 0.010	< 0.0088
Carbon disulfide	NP	2.7	NP	NP	NP	< 0.0026	NA	NA	< 0.0018	< 0.0020	**0.0019**	< 0.0024	**0.0084**	< 0.0023	< 0.0020	**0.0029**
Methyl acetate	NP	NP	NP	NP	NP	< 0.0026	NA	NA	**0.0042 J**	< 0.0020	< 0.0017	< 0.0024	< 0.0018	< 0.0023	< 0.0020	< 0.0018
Methylene chloride	0.05	0.05	100	500	1000	< 0.0026	NA	NA	**0.0062**	< 0.0020	**0.0024**	< 0.0024	**0.0024**	< 0.0023	< 0.0020	**0.0041**
Total TIC, Volatile	NP	NP	NP	NP	NP	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	**0.53 J**	< 0.50	< 0.50	< 0.50

Legend

< 1	Parameter not detected above the laboratory method detection limit
1	Parameter reported at a concentration greater than Part 375 Unrestricted SCOs
1	Parameter reported at a concentration greater than Part 375 Protection of Groundwater SCOs
1	Parameter reported at a concentration greater than Part 375 Protection of Groundwater SCOs
1	Parameter reported at a concentration greater than Part 375 Commercial SCOs
1	Parameter reported at a concentration greater than Part 375 Industrial SCOs
1	Parameter reported above the laboratory reporting limit but below the applicable regulatory standard/criterion

Notes:
ft bg = Feet Below Grade
mg/kg = Milligrams per Kilogram
NP = Not Promulgated
SCO = Soil Cleanup Objective
NA = Not Analyzed
J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

Table 3
Laboratory Analytical Results (Detections Only)
Grab Groundwater
Former Manufacturing Property
510 West Liberty Street,
Rome, New York
HRP Project # MOH1000.P2

Lab Report No.:	**NYSDEC Class GA Criteria**	AD38586-005	AD38586-006
Sample Name:		**Outbuilding Sump**	**TW-1**
Date Collected:		6/13/2023	06/13/2023
Volatile Organic Compounds (VOCs) (µg/L)			
Acetone	50	< 5.0	**6.7**
Polyaromatic Hydrocarbons (PAHs) (µg/L)			
Benzo[b]fluoranthene	0.002	< 2.0*	**2.0**
Fluoranthene	50	< 2.0	**2.3**
Pyrene	50	< 2.0	**2.3**

Legend

< 1	Parameter not detected above the laboratory method detection limit
1	Parameter reported at a concentration greater than NYSDEC Class GA Criteria
1	Parameter reported above the laboratory reporting limit but below the applicable regulatory standard/criterion

Notes:
µg/L= Micrograms/Liter
* Indicates that the laboratory reporting limit exceeds the NYSDEC Class GA Criteria

Table 4
Laboratory Analytical Results (Detections Only)
Groundwater
Former Manufacturing Property
510 West Liberty Street,
Rome, New York
HRP Project # MOH1000.P2

Lab Report No.:	NYSDEC Class GA Criteria	AD38798-001	AD38798-002	AD38798-003
Sample Name:		**MW-1**	**MW-2**	**MW-3**
Date Collected:		6/22/2023	06/22/2023	6/22/2023
Volatile Organic Compounds (VOCs) (µg/L)				
No VOCs Detected				
Semi Volatile Organic Compounds (SVOCs) (µg/L)				
No SVOCs Detected				
Metals (µg/L)				
Arsenic	50	< 2.0	< 2.0	**2.0**
Barium	2,000	NA	**66**	NA
Calcium	NP	NA	**94,000 J**	NA
Chromium	100	**2.2**	< 2.0	< 2.0
Lead	50	**12**	< 3.0	**5.7**
Magnesium	35,000	NA	**16,000 J**	NA
Manganese	600	NA	**360 J**	NA
Potassium	NP	NA	**2,500 J**	NA
Sodium	NP	NA	**150,000**	NA
Polychlorinated Biphenyls (PCBs) (µg/L)				
No PCBs Detected				
Pesticides (µg/L)				
No Pesticides Detected				
Herbicides (µg/L)				
No Herbicides Detected				
Per- and polyfluoroalkyl substances (PFAS) (ng/L)				
Perfluorobutanesulfonic acid	NP	NA	**2.58 J**	NA
Perfluorohexanoic acid	NP	NA	**1.27 J**	NA
Perfluorooctanesulfonic acid	2.7	NA	**2.90 J**	NA
Perfluorooctanoic acid	6.7	NA	**3.57 J**	NA
Perfluoropentanoic acid	NP	NA	**2.26 J**	NA

Legend

< 1	Parameter not detected above the laboratory method detection limit
1	Parameter reported at a concentration greater than NYSDEC Class GA Criteria
1	Parameter reported above the laboratory reporting limit but below the applicable regulatory standard/criterion

ng/L= Nanograms/Liter
µg/L= Micrograms/Liter
NP = Not Promulgated
NA = Not Analyzed
J : Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

APPENDIX A
GPR Survey Report

Geophysical Investigation Report

Location:

510 West Liberty Street
Rome, NY 13440
(AGInc. Job No. 1922092)

Prepared for:

HRP Associates
23147 Swan Road
Watertown, NY 13601

Investigated and prepared by:

Michael Dias
Geophysical SUE Technicians

American Geophysics, Inc.
180 Main Street, #177
Butler, NJ 07405
833-SCAN GPR/ 833-722-6477

Completed on:

June 12, 2023

INTRODUCTION

American Geophysics, Inc. (AGInc.), is a geophysical survey and investigation services firm which provides Environmental & Engineering Geophysics (EEG) services to the environmental consulting, construction, and engineering communities. Led by over 20 years of field experience, AGInc. takes pride in providing the highest training for our technicians and the use of the most current and state-of -the-art equipment. This winning combination of experience and technology results in the most accurate findings.

METHODOLOGY

Geophysical surveys are typically accomplished by employing the following techniques; Ground-penetrating Radar (GPR), electromagnetic metal detector (Fisher TW6), radio frequency line locating (RF), Electromagnetic Profiler (EM). Underground storage tanks (USTs), utilities, and metallic anomalies are typically traced and mapped with RF, GPR, EM, and a magnetometer depending on the size, matrix and conductive properties of the targets. Site conditions and client specifications of the areas of concern (AOCs), determine the survey approach and equipment used to provide the most comprehensive data possible.

EQUIPMENT USED:

Radiodetection RD1100 250MHz ground penetrating radar (GPR)

Radiodetection RD8000 PDL pipe and cable locator

Fisher TW6 Magnetometer

SCOPE OF WORK

On June 12th, 2023, a geophysical survey and investigation was performed and completed at the above mentioned location. The scope of work was to identify subsurface utilities as well as any unknown anomalies around the client-directed boring locations. The surface conditions consisted of asphalt, concrete, gravel, and bare soils. The locations were investigated using the RD1100 250MHz (GPR), the Fisher TW6 Magnetometer, and the RD8000 pipe/cable locator.

SURVEY RESULTS

All the equipment was used in an octagonal-grid pattern over each of the AOCs. 3D data was collected and 2D locations were logged. The RD 8000 was also used in many different modes, directly and passively. All neighboring utility access points, as well as all pipes/conduits going in or out of the ground were directly induced. Please note that all depths are estimated below ground surface (BGS). The best possible data points were collected and all findings are estimated and dependent upon soil types/conditions, weather conditions and the dielectric properties of the subsurface during the time of the investigation. All findings were discussed with the client and marked on site in APWA color-coded paints and flags. All unknown subsurface anomalies were painted pink.

LISTED SURVEY RESULTS:

1. A total of 10 potential/proposed boring locations were investigated.
2. An area consistent with prior excavation/previous building foundation was detected at the west side of the property. One of the area's dimensions was ~12 feet, and the other(s) is unknown, due to overgrown vegetation limiting GPR access for perpendicular transects over the area. The area had a metallic response when investigated with the TW6, but GPR imaging is not consistent with that of an underground storage tank (UST) .
3. A tunnel was detected running between the small west building and the main property building, and its detected edges were marked with pink paint. The entrance to the tunnel from the small building was sealed, and its entrance from the main building was not found (during the investigation). The detected tunnel's width was measured at approximately 12 ft.
4. An unknown linear anomaly was detected running along the north side of the property, near two of the client's proposed boring locations. This anomaly was detected at depths of ~(3 to 6 feet - due to elevation change), and marked with pink paint and flags. The client's locations were moved accordingly.
5. Water and sanitary sewer were detected exiting the main building from the southeast corner, and running south to West Liberty Street. Both were detected at depths of ~(4 to 4.5 ft) below ground surface (BGS), and marked with blue (water) and green (sewer) paints and flags.
6. An unknown linear anomaly was detected running parallel to the water and sewer lines, into the southeast corner of the property. This anomaly was detected at depths of ~(4 to 5 ft) BGS, and was marked with pink paint and flags as it could not be confirmed.
7. Gas was detected entering the property from the south side at a depth of ~3 ft BGS, and running north towards the overgrown vegetation area at the west side of the main building. It could not be confirmed where this line runs in the overgrown vegetation area, due to inaccessibility. The utility room where gas enters the building was observed at the west side of the building. The detected line was marked with yellow paint and flags.

8. Two unknown linear anomalies were detected entering the property from the southwest driveway, and running north towards the smaller building at the west side of the property. The overgrown vegetation between the smaller building and the south property fence prevented further investigation of these linear anomalies. These anomalies were detected running side by side;
    - The linear anomaly to the west was detected at depths of ~(3.5 to 5 ft), from north to south respectively.
    - The linear anomaly to the east was detected at a depth of ~3 ft.
    - Both anomalies were marked with pink paint.
9. Overgrown vegetation limited investigation to many areas of the property. Please see the diagram provided below.
10. GPR transects and RD8000 passive sweeps were conducted around the entirety of the accessible property, in a grid-like pattern.
11. All findings were discussed with the client and marked on site in APWA color-coded paints. The best possible data points were marked, recorded and all findings were discussed with the client on-site. Please see the sample figures/images below.

LIMITATIONS

Areas within ~3 feet of any wall and/or any other vertical obstruction can not be fully investigated and confirmed due to the physical inability to get the center of any GPR antenna flush to the wall. Subsurface congestion can lead to coupling. This also can lead to distortion, attenuation, "bleed-off" and sympathetic signals. Due to surface conditions and the dielectric properties of the subsurface and properties of concrete, plastic polymer, and fiberglass, not all subsurface anomalies and utilities may have been detected. Buildings, concrete barriers, wet soils, saturated conditions, cracked surfaces, curb lines, and metal structures may have affected survey results near and immediately beneath them.

GPR signal penetration depth during survey/investigation:

Good and estimated to be ~(7 - 8 ft) below ground surface (BGS)

Listed Limitations:

1. Overgrown vegetation limited investigation to many areas of the property.
2. Lack of/inaccessible utility access points.
3. Cut/Abandoned utilities.
4. Non-Conductive Materials.

Figures

Fig. 1: Images of the area consistent with prior excavation detected at the west side of the property.

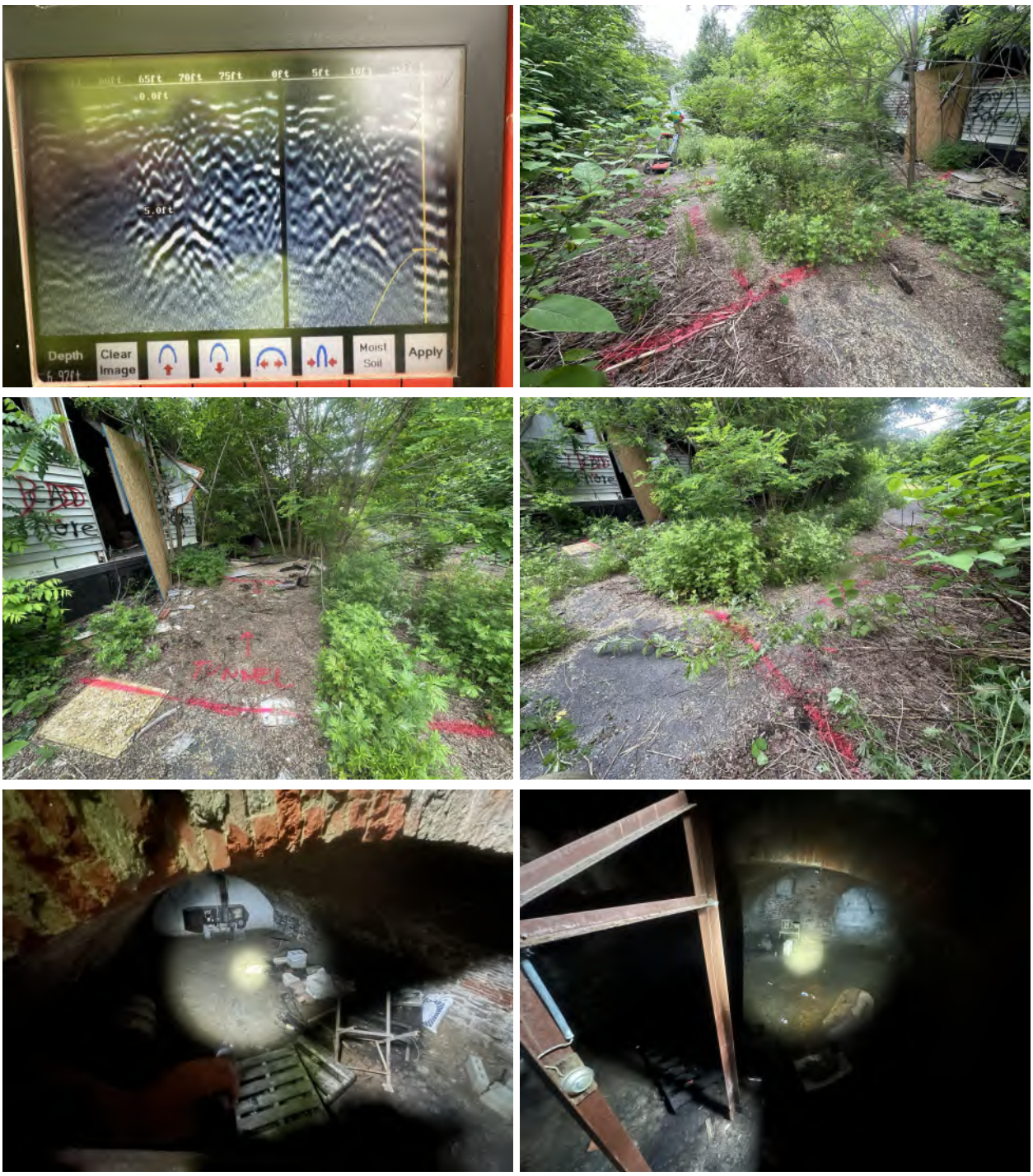
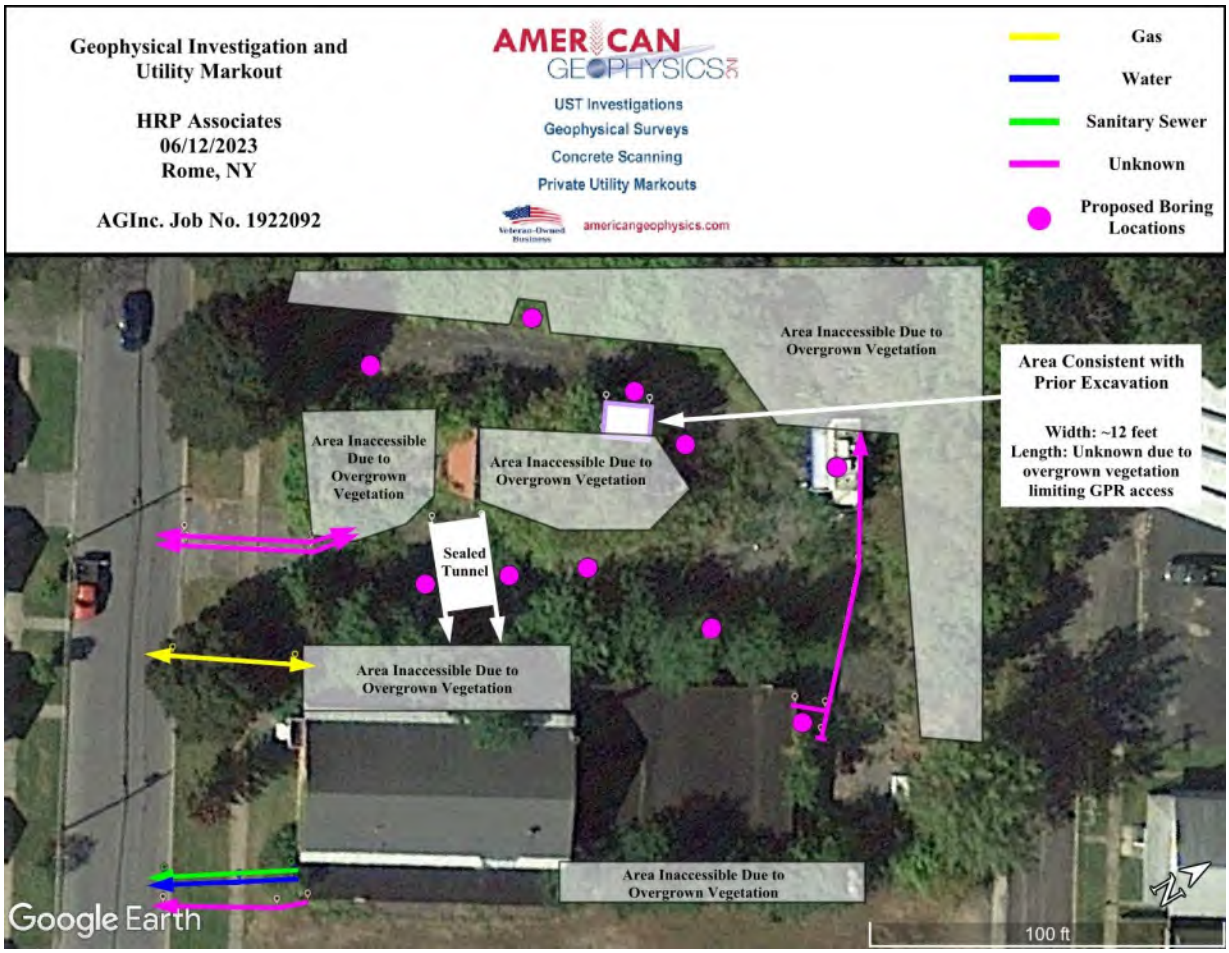


Fig. 2: Images of the tunnel detected, as well as the small building basement investigated, where the tunnel entrance was observed to be sealed.

Fig. 3: Images of the linear anomaly running along the north side of the property.

Fig. 4: Images of the linear anomalies detected at the southwest side of the property.

Fig. 5: Images of the gas, water, and sewer for the main building; as well as the unconfirmed utility/unknown linear anomaly that was detected at the southeast side of the property - near the water and sewer.



Diagram

****please note this is for illustration purposes only****

- Red: Electric Power Lines, Cables, Conduit & Lighting Cables
- Yellow: Gas Oil, Steam, Petroleum or Gaseous Materials
- Orange: Communication, Cable TV, Alarm or Signal Lines, Cables or Conduit
- Blue: Potable Water
- Green: Sewers and Drain Lines
- Purple: Reclaimed Water, Irrigation and Slurry Lines
- Pink: Temporary Survey Markings
- White: Proposed Excavation

***All field services were conducted in compliance with the industry standard of care guidelines found in ASCE 38-02 (Level B) and marked in appropriate colors as per the APWA (American Public Works Association).**

American Geophysics Inc. | 180 Main Street Butler, New Jersey 07405 | 833.SCAN GPR/ 833.722.6477

WARRANTIES

· ***American Geophysics, Inc. does not guarantee that utilities, conduit, and steel reinforcement will be avoided during drilling, cutting, trenching, and coring.***

· ***All utility designating will be in compliance with ASCE 38-02 (level B).***

· ***All field services were conducted in compliance with the industry standard of care guidelines found in CSDA-BP-007 and marked in appropriate colors as per the APWA (American Public Works Association).***

· ***The GPR unit must have direct contact with the concrete in order to collect quality data.***

· ***Any areas covered with debris cannot be scanned correctly with GPR.***

· ***Wet floors will not allow proper marking with paint and/or permanent marker.***

· ***All concrete slabs must be monolithic pours.***

· ***Dairy brick and some types of tile may cause signal interference.***

· ***New concrete can adversely affect the signal penetration and should be given a minimum of one month curing time.***

· ***All areas should be clear for scanning and marking.***

The field observations and measurements reported herein are considered sufficient in detail and scope for this project. American Geophysics, Inc. warrants that the findings and conclusions contained herein have been promulgated in accordance with generally accepted geophysical methods. There is a possibility that conditions may exist which could not be identified within the scope of this project and were not apparent during the site activities performed for this project.

American Geophysics, Inc. represents that the services were performed in a manner consistent with that level of care and skill ordinarily exercised by geophysical consultants under similar circumstances. No other representations to Client, express or implied, and

no warranty or guarantee is included or intended in this agreement, or in any report, document, or otherwise.

American Geophysics, Inc. believes that the information provided in this report is reliable. However, American Geophysics, Inc. cannot warrant or guarantee that the information provided by others is complete or accurate. No other warranties or guarantees are implied or expressed.

GPR data is subject to signal anomalies and operator interpretation. The GPR data is intended to provide the locations of areas of concern requiring additional investigation or the approximate location of underground structures and utilities. Great care must be utilized when excavating, drilling, and cutting around subsurface structures and utilities, since GPR data can only be used for estimation purposes and GPR data, is subject to misinterpretation. American Geophysics, Inc. cannot guarantee that utilities, post-tension cables, and/or rebar will not be incurred during drilling, cutting, coring, and excavation activities.

Hand clearing or vacuum-excavation should be performed within 3 feet of any marks. American Geophysics, Inc. does not guarantee that utilities will not be encountered during drilling and/or excavation. Mark-out services performed by American Geophysics, Inc. do not satisfy state mark out requirements. By law, the appropriate state mark-out service must be notified prior to any digging activities (i.e. NJ one-call, PA one-call, CT call before you dig, MD & VA miss utility, dig safely NY, FL one-call, 811 one-call, call before you dig, Sunshine State One-Call).

This report was prepared pursuant to the contract American Geophysics, Inc. has with the Client. That contractual relationship included an exchange of information about the property that was unique between American Geophysics, Inc. and its client and serves as the basis upon which this report was prepared. Because of the importance of the communication between American Geophysics, Inc. and its client, reliance or any use of this report by anyone other than the Client, for whom it was prepared, is prohibited and therefore not foreseeable to American Geophysics, Inc.

Reliance or use by any such third party without explicit authorization in the report does not make said third party a third-party beneficiary to American Geophysics, Inc. contract with the Client. Any such unauthorized reliance on or use of this report, including any of its information or conclusions, will be at the third party's risk. For the same reasons, no warranties or representations, expressed or implied in this report, are made to any such third party.

APPENDIX B
Soil Boring & Monitoring Well Logs

HRP

MOVE YOUR ENVIRONMENT FORWARD

Project: 510 Liberty Street Phase II	**Boring I.D.:** SB-1
Job Number: MOH1000.P2	**Date:** 6/17
Drilling Company: Natures Way	**Time:** 11:19
Location: Rome, NY N of Garage	
Drilling Equipment: Geoprobe	**Drilling Method: Geoprobe direct push**

Sample Interval (ft bg) Top	Bottom	Recovery (ft), in	Moisture	Description (grain size, color, compaction, staining, odor)	PID (PPM)
0	5	30"	DRY	10" asphalt Sand and silt, brown, fngr, pr comp, no odor / stain sm brick / gravel	0.0
5	10	22"	moist	sand, brn, med-crse grn, wl comp, no stain/odor, some gravel and silt	0.0
10	15	28"	wet	✱ water 14' 10-14 sand and silt, fr gravel fn-med gr, tr coarse, brn 14-15 clay, brn tight no stain or odor	0.0
15	20	45"	moist	15-17 clay, brn, tight, some gravel 17-18 sand & clay grey fn gr, tr gravel 18-20 same as 15-17 End Exp @ 20'	0.0

FW, to 8'

	Time
~~Grab Groundwater~~ Sample Collected:	
soil 10-14 (Above water table, Sand unit)	1145
Sampling Method:	

MOVE YOUR ENVIRONMENT FORWARD

Project: 510 Liberty Street Phase II	**Boring I.D.:** SB-2
Job Number: MOH1000.P2	**Date:** 6/12
Drilling Company: Natures Way	**Time:** 1153
Location: Rome, NY W of Garage	
Drilling Equipment: 6DT MicroCore	**Drilling Method: Geoprobe direct push**

Sample Interval (ft bg) Top	Bottom	Recovery (ft)	Moisture	Description (grain size, color, compaction, staining, odor)	PID (PPM)
0	5	2'8"	Dry	0-0.25 Topsoil	0.0
			Dry	(0.25-1.0) SILT and Sand (F) some gravel (F), sub-round brown loose no odor	0.0
			Dry	(1-1.5) Rock + large gravel gray, no odor	0.0
			moist	(1.5-5) same as 0.25-1 some brick, large gravel	0.0
5	10	19"	moist	5-7 sand sm silt med gr, dk brn, sm gravel, no stain/odor	0.0
				7-8 sand and Gravel, dk brn, md gr, no stain/odor	0.0
				8-10 sand and gr, tr silt, brn, md gr, no stain/odor	0.0
10	15	26"	Wet-Sat	(10-13) SAA	
			Sat	(13-14.5) GRAVEL (c, sub-rd) subtle sand + silt, brown	
			Wet	(14-15) CLAY, brown	
15	20	45"	Wet	SAA	
				End of explor @ 20	

Grab Groundwater Sample Collected:	Time
SB-2, 0-1 fill/surface	1225

Sampling Method:

HRP
MOVE YOUR ENVIRONMENT FORWARD

Project: 510 Liberty Street Phase II	**Boring I.D.:** SB-3
Job Number: MOH1000.P2	**Date:** 6-12-23
Drilling Company: Natures Way	**Time:** 12:25
Location: Rome, NY Former Coal House	
Drilling Equipment: 6.6DT Micracore	**Drilling Method: Geoprobe direct push**

	Sample Interval (ft bg) Top	Bottom	Recovery (ft)	Moisture	Description (grain size, color, compaction, staining, odor)	PID (PPM)
Fill	0	5	23"	Dry	SAND (F) some silt, some gravel (m-c, sub-rnd), tr. br., tr. Cinders, (tr. asphalt tr. org.) → 0-2.5 brown - blk. ND odor	0.0
Native	5	10	26"	MST	SAND (F) and silt, some gravel (m-c sub-rnd, brown	0.0
	10	15	24"	Sat	SAA, No gravel, SAND (F-M)	0.0
	15	20	30"	Wet	CLAY, compact, brown	0.0
					End of expl. @ 20'	

~~Grab Groundwater~~ Sample Collected: Time

0-5 - Fill, trace Cinders obs @ 2.5', Surf. rebar 1251

Sampling Method:

MOVE YOUR ENVIRONMENT FORWARD

Project: 510 Liberty Street Phase II	**Boring I.D.:** SB-4
Job Number: MOH1000.P2	**Date:** 6/12/23
Drilling Company: Natures Way	**Time:** 1:02
Location: Rome, NY west of tank grave possible	
Drilling Equipment:	**Drilling Method:** Geoprobe direct push

Sample Interval (ft bg) Top	Sample Interval (ft bg) Bottom	Recovery (ft)	Moisture	Description (grain size, color, compaction, staining, odor)	PID (PPM)
0	5	11"	dry	0-4 sand and silt, brn, fn gr, poor comp no stain/odor	0.0
				4-5 sand and silt, tr brick, tr slag, tr cinders, black, gry ash, no stain/odor	
5	10	18"	moist	5-8 SAA	0.0
				8-10 sand and silt, br, fn-med gr, sm gravel no stain/odor	
10	15	18"	wet	10-12.5 SAND AND SILT, TR GRAVEL med-course, no stain/odor	0.0
				12.5-15: NO OD	
15	20	30"	moist	15-16 SAND, gy, fn-med, tr gravel	0.0
				16-17 SILT, sm CLAY no stain/odor	
				17-20 CLAY, BK tight no stain/odor	0.0

Grab Groundwater Sample Collected:	Time
SB-4, 10-12.5 water table	1:38

Sampling Method:

MOVE YOUR ENVIRONMENT FORWARD

Project: 510 Liberty Street Phase II	**Boring I.D.:** SB-5
Job Number: MOH1000.P2	**Date:** 6/12/23
Drilling Company: Natures Way	**Time:** 1330
Location: Rome, NY	
Drilling Equipment:	**Drilling Method: Geoprobe direct push**

Sample Interval (ft bg) Top	Bottom	Recovery (ft)	Moisture	Description (grain size, color, compaction, staining, odor)	PID (PPM)
0	5	20"	dry	~~SAN~~ (0-4) SAND (f) + silt, some grav (m-c), tr. brick, ash, wood Brown	
				(4-5) SILT and grav, (c) tr. Sand, tr ash Black	
5	10	13"	Moist	SILT and Sand (m-f) some cinders + ash, tr. brick, tr. grav. Black	
10	15	15"	Sat @ 12'	SAND (f-m) and silt some gravel (m-c, subang) tr. brick + cinders	
15	20	29"	wet	(15-18) Wood and silt Dk brown	
			wet	(18-20) CLAY, brown Compact	

Fill to 18'

~~Grab Groundwater~~ Sample Collected:	**Time**
Soil: 5-10 Cinder-ash fill	1330
Sampling Method:	

DTW 14.64 Grab GW collected 6/13/23 1330 analyze for PAH/VOC

HRP

MOVE YOUR ENVIRONMENT FORWARD

Project: 510 Liberty Street Phase II	**Boring I.D.:** SB-6
Job Number: MOH1000.P2	**Date:** 6/12/23
Drilling Company: Natures Way	**Time:** 2:15
Location: Rome, NY (W) Downgradient of ~~at~~ building	
Drilling Equipment:	**Drilling Method:** Geoprobe direct push

Sample Interval (ft bg) Top	Sample Interval (ft bg) Bottom	Recovery (ft)	Moisture	Description (grain size, color, compaction, staining, odor)	PID (PPM)
0	5	32"	dry	0-3 SAND, tr silt, brn-dk brn, gravel no stain/odor 3-4 SAND & BRICK, fn, sr lbr, tr gravel, no stain/odor 4-5 ~~gravel, gy~~ gravel, gy	
5	10	29"	moist	5-10 GRAVEL AND SAND, tr SILT, br-gy, fn gr no stain/odor	
10	15	27"	moist	10-13 SAND, fn-med gr, brn-gy brn *staining 10-11' some gravel, odor ~~petroleum~~ 13-15 SAND + WOOD, dk brn-black no stain/odor	84.4
15	20	29"	wet	15-20 clay, br-gy, tight	0.0

~~Grab Groundwater~~ Sample Collected: Soil	Time
SB-6 10-11 VOC + PAH only (not enough volume)	14:30
Sampling Method:	

MOVE YOUR ENVIRONMENT FORWARD

Project: 510 Liberty Street Phase II	**Boring I.D.:** SB-7
Job Number: MOH1000.P2	**Date:** 6/12/23
Drilling Company: Natures Way	**Time:** 240
Location: Rome, NY Downgradient Auto House	
Drilling Equipment:	**Drilling Method: Geoprobe direct push**

Sample Interval (ft bg) Top	Bottom	Recovery (ft)	Moisture	Description (grain size, color, compaction, staining, odor)	PID (PPM)
0	5	20"	dry	0-.5 SAND, FN GR, BRN, TR gravel, 0.5-1 SAND + CINDERS, + r clay, ash, fn gr, brk, no stain/odor 1-5' SAND + SILT, SME Clay CINDERS, SME gravel, br, FN GR, ash, no stain/odor	
5	10	13"	moist	SAND, SME gravel, br, fn gr, no stain/odor	
10	15	22"	wet	10-15 SAND, SME gravel, fn gr brn-dk brn	
15	20	36"	moist	15-16 SAA 16-20 clay, brn-gy, firm tight, no stain/odor	

~~Grab Groundwater~~ **Sample Collected:** Soil — **Time**

SB-7, 0.5-1 Coal ash layer — 1500

Sampling Method:

HRP
MOVE YOUR ENVIRONMENT FORWARD

Project: 510 Liberty Street Phase II	**Boring I.D.:** SB-8
Job Number: MOH1000.P2	**Date:** 6-12
Drilling Company: Natures Way	**Time:** 1510
Location: Rome, NY Automotive Stge Footprint 1 / Down-seal	
Drilling Equipment:	**Drilling Method: Geoprobe direct push**

Sample Interval (ft bg)		Recovery (ft)	Moisture	Description (grain size, color, compaction, staining, odor)	PID (PPM)
Top	Bottom				
0	4	37"	dry	0-2 SILT sme SAND sme Gravel, brn - dk brn, blk, tr brick tr cinder, no stain odor	0.0
				2-4 Gravel (c), tr Brick Gray + red	0.0
				Refusal @ 4 ↳ Gravel / rock fill.	

Grab Groundwater Sample Collected:	**Time**
Soil SB-8, 0-2	1540
Sampling Method:	

MOVE YOUR ENVIRONMENT FORWARD

Project: 510 Liberty Street Phase II	**Boring I.D.:** SB-9
Job Number: MOH1000.P2	**Date:** 6-12
Drilling Company: Natures Way	**Time:** 1540
Location: Rome, NY Downgrade of Text Bldg	
Drilling Equipment:	**Drilling Method: Geoprobe direct push**

Sample Interval (ft bg) Top	Sample Interval (ft bg) Bottom	Recovery (ft)	Moisture	Description (grain size, color, compaction, staining, odor)	PID (PPM)
0	5	33"	dry	0-1 SAND AND GRAVEL, sm + SLT brn, no stain/odor	0.0
				1-5 SAND, tr SLT, sme gravel, BRN, fn-md gr, poor comp, no stain/odor	0.0
5	10	17"	dry	SAND and SILT, sme GRAVEL, BRICK 8-10 CLAY sme gravel med, tr sand no stain/odor	0.0
10	15	30"	Sat	SAND (M) and silt, some Brick some gravel (m) brown + gray. (10-12)	
			Wet	(12-15') CLAY, brown, tr gray (f-m)	
15	20	37"	Wet	SAA	

~~Grab Groundwater~~ Sample Collected: Soil	**Time**
SB-9 (10-12) Fill over water table	1610
Sampling Method:	

PROJECT: 56 Liberty St | JOB NUMBER: MOH 1000.P2

WELL NO.: HB-1 | PAGE 1 OF 1

DEPTH (FEET) FROM	DEPTH (FEET) TO	SAMPLE TYPE	BLOW COUNT	REC. (FEET)	MOISTURE	DESCRIPTION	PID READING (PPM)
0	1				Dry	SAND AND SILT, black, dk brn, brn, cinders, ash	

PROJECT: 510 library | JOB NUMBER: MoH 1000.P2

WELL NO.: HB-20 | PAGE 1 OF 1

DEPTH (FEET) FROM	DEPTH (FEET) TO	SAMPLE TYPE	BLOW COUNT	REC. (FEET)	MOISTURE	DESCRIPTION	PID READING (PPM)
0	1				WET (added)	STAINING SLT DK brn, brn	

PROJECT: 510 Libert, St.	JOB NUMBER: MDH 1000.P2
WELL NO.: HB-3	PAGE 1 OF 1

DEPTH (FEET) FROM	DEPTH (FEET) TO	SAMPLE TYPE	BLOW COUNT	REC. (FEET)	MOISTURE	DESCRIPTION	PID READING (PPM)
0	1				DRY	SAND, BLK, FN - MD gr, Tr slag, +/ gravel, Tr cinders	

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Low-Flow Sampling Log

PAGE: 1 OF 1
SAMPLE DATE: 6/22/23
TOTAL # WELLS: 3

Client Name:	Mohawk Valley Edge	Sample Pump:	Peristaltic Pump
Project Location:	510 Liberty Street, Rome, New York	Tubing Type:	HDPE .17"ID x 1/4"OD
Sampler(s):	RL, NZ	Monitoring Equipment:	YSI Pro Quatro
Well I.D.	MW-1	Screen Setting (ft btoc):	10 to 20
Well Diameter (inches):	2	Tubing Intake (ft btoc):	~15'
Total Depth (ft btoc):	20.00	Comments:	No sheen, low recharge
Depth to Water (ft btoc):	14.10		OR = Out of Range
Well Condition:	Good		

Time (minutes)	Depth to Water (ft btoc)	Evacuation Rate (mL/min)	Water Quality Monitoring Parameters: Temperature (°C)	DO mg/L	Conductivity µs/cm	pH	ORP (mV)	Turbidity NTU
1010 0	14.10	150	14.1	2.80	779	7.46	209.8	14.5
3	15.25	↓	12.3	1.38	642	7.33	189.2	53.8
6	16.20		12.0	2.27	598	7.13	186.0	316
9	16.80		11.8	2.05	592	7.20	153.3	269
12	17.50		11.6	0.65	582	7.38	142.1	91.4
15	18.10		11.5	1.01	580	7.35	138.4	289
18	19.20	150	11.5	1.77	581	7.28	134.2	OR
20	DRY		—	—	—	—	—	—
Well fully recovered by 1215. Collected Sample.								

Stabilization of Parameters (stabilization achieved for three consecutive measurements)

Time FROM	Time TO	Depth to Water (ft btoc)	Evacuation Rate (mL/min)	Temperature (°C)	DO mg/L	Conductivity µs/cm	pH	ORP (mV)	Turbidity NTU
Stabilization not achieved due to poor recovery. Well ran dry during low-flow. Pumping was stopped once well became dry and sampling was conducted after 90% recovery.									
Recommended Stabilization		± 0.3	100-500	± 3%	± 10%	± 3%	± 0.1	± 10	± 10%
Stabilization: (Yes/No)		—	—	—	—	—	—	—	—

Sample Time: 1215 Reviewed By: RL

ft btoc	feet below top of casing	NTU	Nephelometric Turbidity Units	°C	Degrees Celsius
ml/min	milliliters per minute	mg/l	milligrams per liter	mv	millivolts
µs/cm	microseimons per centimeter				

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PAGE: 1 OF 2

SAMPLE DATE: 6/22/23

TOTAL # WELLS: 3

Low-Flow Sampling Log

Client Name:	Mohawk Valley Edge	Sample Pump:	Peristaltic Pump
Project Location:	510 Liberty Street, Rome, New York	Tubing Type:	HDPE .17"ID x 1/4"OD
Sampler(s):		Monitoring Equipment:	YSI Pro Quatro
Well I.D.	MV-2	Screen Setting (ft btoc):	10 to 20
Well Diameter (inches):	2	Tubing Intake (ft btoc):	~15
Total Depth (ft btoc):	20.00	Comments:	No sheen MS/MSD +
Depth to Water (ft btoc):	12.14		Duplicate collected here
Well Condition:	Good		

Time (minutes)	Depth to Water (ft btoc)	Evacuation Rate (mL/min)	Water Quality Monitoring Parameters: Temperature (°C)	DO mg/L	Conductivity µs/cm	pH	ORP (mV)	Turbidity NTU
240 0	12.14	200	15.5	6.37	1225	7.51	40.5	1.2
3	12.20		13.1	0.50	1135	7.58	43.6	6.83
6	12.22		13.3	0.34	1136	7.60	45.7	4.49
9	12.22		13.3	0.80	1158	7.47	56.3	4.62
12	12.22		12.9	0.91	1156	7.45	59.6	2.59
15	12.22		13.0	0.96	1157	7.45	60.0	3.49
18	12.22		13.2	1.07	1165	7.42	61.2	2.14
21	12.22		13.0	1.30	1160	7.40	62.2	1.59
24	12.22		13.0	1.68	1157	7.35	62.5	1.61
27	12.22		13.0	1.89	1155	7.32	61.5	1.49
30	12.22	↓	13.0	2.04	1153	7.31	61.8	1.46
33	12.22	200	13.0	2.26	1150	7.29	60.7	1.38

Stabilization of Parameters (stabilization achieved for three consecutive measurements)

Time FROM	Time TO	Depth to Water (ft btoc)	Evacuation Rate (mL/min)	Temperature (°C)	DO mg/L	Conductivity µs/cm	pH	ORP (mV)	Turbidity NTU
See	Page 2								
Recommended Stabilization		± 0.3	100-500	± 3%	± 10%	± 3%	± 0.1	± 10	± 10%
Stabilization: (Yes/No)		See	Page	2	—	—	—	—	—

Sample Time: 1322 Reviewed By:

ft btoc	feet below top of casing	NTU	Nephelometric Turbidity Units	°C	Degrees Celsius
ml/min	milliliters per minute	mg/l	milligrams per liter	mv	millivolts
µs/cm	microseimons per centimeter				

HRP Associates, Inc.

PAGE: 2 OF 2

SAMPLE DATE: 6/22/23

TOTAL # WELLS: 3

Low-Flow Sampling Log

Client Name:	Mohawk Valley Edge	Sample Pump:	Peristaltic Pump
Project Location:	510 Liberty Street, Rome, New York	Tubing Type:	HDPE .17"ID x 1/4"OD
Sampler(s):		Monitoring Equipment:	
Well I.D.	MW-2	Screen Setting (ft btoc):	10 to 20
Well Diameter (inches):	2	Tubing Intake (ft btoc):	~15
Total Depth (ft btoc):	20.00	Comments:	No sheen, ms+msd collected here
Depth to Water (ft btoc):	12.14		Duplicate collected here
Well Condition:	Good		

Time (minutes)	Depth to Water (ft btoc)	Evacuation Rate (mL/min)	Water Quality Monitoring Parameters: Temperature (°C)	DO mg/L	Conductivity µs/cm	pH	ORP (mV)	Turbidity NTU
36	12.22	200	13.0	2.38	1196	7.27	58.6	1.21
39	12.22	↓	13.0	2.54	1142	7.26	57.7	0.43
42	12.22	200	13.0	2.51	1145	7.25	56.5	1.02

Stabilization of Parameters (stabilization achieved for three consecutive measurements)

Time FROM	Time TO	Depth to Water (ft btoc)	Evacuation Rate (mL/min)	Temperature (°C)	DO mg/L	Conductivity µs/cm	pH	ORP (mV)	Turbidity NTU
36	39	0	200	0	~~6.7%~~	0.35%	0.01	0.9	<5
39	42	0	200	0	1.2%	0.26%	0.01	1.2	<5
36	42	0	200	0	5.5%	0.09%	0.02	2.1	<5
Recommended Stabilization		± 0.3	100-500	± 3%	± 10%	± 3%	± 0.1	± 10	± 10%
Stabilization: (Yes/No)		Y	Y	Y	Y	Y	Y	Y	Y

Sample Time: 1322

Reviewed By:

ft btoc	feet below top of casing	NTU	Nephelometric Turbidity Units	°C	Degrees Celsius
ml/min	milliliters per minute	mg/l	milligrams per liter	mv	millivolts
µs/cm	microseimons per centimeter				

HRP Associates, Inc.

PAGE: 1 OF 1

SAMPLE DATE: 6/22/23

TOTAL # WELLS: 3

Low-Flow Sampling Log

Client Name:	Mohawk Valley Edge	Sample Pump:	Peristaltic Pump
Project Location:	510 Liberty Street, Rome, New York	Tubing Type:	HDPE .17"ID x 1/4"OD
Sampler(s):		Monitoring Equipment:	YSI Pro Quatro
Well I.D.	MW-3	Screen Setting (ft btoc):	10 to 20
Well Diameter (inches):	2	Tubing Intake (ft btoc):	~15
Total Depth (ft btoc):	20.00	Comments:	No sheen, no odor
Depth to Water (ft btoc):	12.96		
Well Condition:	Good		

Time	Depth to Water	Evacuation Rate	Water Quality Monitoring Parameters					
			Temperature	DO	Conductivity	pH	ORP	Turbidity
(minutes)	(ft btoc)	(mL/min)	(°C)	mg/L	µs/cm		(mV)	NTU
1045 0	12.96	100	15.7	3.44	1007	7.50	111.1	44.2
3	13.40		13.4	0.77	945	7.55	108.1	22.0
6	13.55		13.2	0.29	943	7.56	104.3	14.8
9	13.65		14.0	0.48	954	7.53	102.4	80.1
12	13.68		14.0	0.54	962	7.51	100.1	86.2
15	13.72		14.1	0.56	965	7.49	98.2	101
18	13.78		14.1	0.56	962	7.50	96.2	75.9
21	13.80		14.0	0.67	965	7.47	93.9	53.2
24	13.80		14.4	0.82	976	7.45	89.7	42.0
27	13.80		14.4	0.81	980	7.44	81.5	35.9
30	13.80	↓	14.4	0.81	979	7.46	73.6	30.3
33	13.80	100	14.5	0.96	986	7.45	62.5	10.2

Stabilization of Parameters (stabilization achieved for three consecutive measurements)

Time		Depth to Water	Evacuation Rate	Temperature	DO	Conductivity	pH	ORP	Turbidity
FROM	TO	(ft btoc)	(mL/min)	(°C)	mg/L	µs/cm		(mV)	NTU
See	Page	2							
Recommended Stabilization		± 0.3	100-500	± 3%	± 10%	± 3%	± 0.1	± 10	± 10%
Stabilization: (Yes/No)		See	Page	2					

Sample Time: 1130 Reviewed By: [signature]

ft btoc	feet below top of casing	NTU	Nephelometric Turbidity Units	°C	Degrees Celsius
ml/min	milliliters per minute	mg/l	milligrams per liter	mv	millivolts
µs/cm	microseimons per centimeter				

HRP Associates, Inc.

PAGE: 2 OF 2

SAMPLE DATE: 6/22/23

TOTAL # WELLS: 3

Low-Flow Sampling Log

Client Name:	Mohawk Valley Edge	Sample Pump:	Peristaltic Pump
Project Location:	510 Liberty Street, Rome, New York	Tubing Type:	HDPE .17"ID x 1/4"OD
Sampler(s):		Monitoring Equipment:	YSI Pro Quatro
Well I.D.	MW-3	Screen Setting (ft btoc):	10 to 20
Well Diameter (inches):	2	Tubing Intake (ft btoc):	~15
Total Depth (ft btoc):	20.00	Comments:	No sheen, no odor
Depth to Water (ft btoc):	12.96		
Well Condition:	Good		

Time	Depth to Water	Evacuation Rate	Water Quality Monitoring Parameters					
			Temperature	DO	Conductivity	pH	ORP	Turbidity
(minutes)	(ft btoc)	(mL/min)	(°C)	mg/L	µs/cm		(mV)	NTU
36	13.80	100	14.4	0.99	965	7.45	57.9	5.85
39	13.80	"	14.3	1.00	973	7.43	57.6	4.62
42	13.80	"	14.3	0.99	975	7.43	56.4	3.53
45	13.80	100	14.4	0.98	977	7.42	55.6	4.47

Stabilization of Parameters (stabilization achieved for three consecutive measurements)

Time		Depth to Water	Evacuation Rate	Temperature	DO	Conductivity	pH	ORP	Turbidity
FROM	TO	(ft btoc)	(mL/min)	(°C)	mg/L	µs/cm		(mV)	NTU
34	42	0	100	0	1.01%	0.2%	0	1.2	<5
42	45	0	100	0.7%	1.02%	0.2%	0.01	0.8	<5
39	45	0	100	0.7%	2.04%	0.4%	0.01	2.0	<5
Recommended Stabilization		± 0.3	100-500	± 3%	± 10%	± 3%	± 0.1	± 10	± 10%
Stabilization: (Yes/No)		Y	Y	Y	Y	Y	Y	Y	Y

Sample Time: 1130

Reviewed By: RWL

ft btoc	feet below top of casing	NTU	Nephelometric Turbidity Units	°C	Degrees Celsius
ml/min	milliliters per minute	mg/l	milligrams per liter	mv	millivolts
µs/cm	microseimons per centimeter				

HRP Associates, Inc.
Monitoring Well Installation Log

WELL NO: MW-1

PAGE **OF**

PROJECT: 510 Liberty Street Phase II	**SCREEN SIZE & TYPE:** 2-inch PVC Schedule 40
JOB NUMBER: MOH1000.P2	**SLOT NO.:** 0.010-inch **SETTING:** 8-18'
DATE COMPLETED: 6/13/23	**SAND PACK SIZE & TYPE:** #0 Filter
DRILLING COMPANY: NW Contracting	**SETTING:** 6-18'
RIG TYPE: GeoDT	**CASING SIZE & TYPE:** 2-inch PVC Schedule 40
DRILLING METHOD: direct push 325'micro	**SETTING:** 0-8'
HAMMER WEIGHT/DROP: NA	**SEAL TYPE:** Bentonite
SAMPLING METHOD: microcore	**SETTING:** 2-6'
OBSERVER: CG	**BACKFILL TYPE:** 0-2 concrete
REFERENCE POINT (RP): Grade	**STATIC WATER LEVEL:**
STICK-UP: 4.5	
SURFACE COMPLETION:	

REMARKS:

ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube REC = recovery PPM = parts per million

DEPTH (FEET) FROM	DEPTH (FEET) TO	SAMPLE TYPE	BLOW COUNT	REC. (FEET)	MOISTURE	DESCRIPTION	PID READING (PPM)

HRP Associates, Inc.
Monitoring Well Installation Log

WELL NO: MW-3

PAGE **OF**

PROJECT: 510 Liberty Street Phase II	**SCREEN SIZE & TYPE:** 2-inch PVC Schedule 40
JOB NUMBER: MOH1000.P2	**SLOT NO.:** 0.010-inch **SETTING:** 8-18'
DATE COMPLETED: 6/12/23	**SAND PACK SIZE & TYPE:** #0 Filter
DRILLING COMPANY: NW contracting	**SETTING:** 6-18'
RIG TYPE: GeoDT	**CASING SIZE & TYPE:** 2-inch PVC Schedule 40
DRILLING METHOD: direct push 3.25" micro	**SETTING:** 0-8'
HAMMER WEIGHT/DROP:.	**SEAL TYPE:** Bentonite
SAMPLING METHOD: ~~spoon~~ micro core	**SETTING:** 2-6'
OBSERVER: CG	**BACKFILL TYPE:** 0-2 concrete
REFERENCE POINT (RP): Grade	**STATIC WATER LEVEL:**
STICK-UP: Yes	
SURFACE COMPLETION:	

REMARKS:

ABBREVIATIONS: SS = split spoon W = wash C = cuttings G = grab ST = shelby tube REC = recovery PPM = parts per million

DEPTH (FEET) FROM	DEPTH (FEET) TO	SAMPLE TYPE	BLOW COUNT	REC. (FEET)	MOISTURE	DESCRIPTION	PID READING (PPM)

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER MONITORING WELL PURGE FORM	

Project: 510 Liberty Street Phase II	WAS #: —	Field Personnel: R. Lewandowski
Location: 510 Liberty Street, Rome, New York	Well ID.: MW-11	Weather: 70°
Sounding Method: WL	Gauge Date: 6/13/23	Measurement Ref: Top of Casing
Stick Up/Down (ft): —	Gauge Time: 6/13/23	Well Diameter (in): 2

Purge Date: 6/13/23	Purge Time: 1000
Purge Method: Whale Pump, Bailer, Peri. Pump	Field Technician: RL, CG

1) Well Depth (ft): 20.00	4) Well Diameter (in): 2	7) Five Well Volumes (gal): 1.2
2) Depth to Water (ft): 18.52	5) Well Volume / Foot (gal) (d^2x.0408): 0.1632	Depth/Height of Top of PVC: —
3) Height of H_2O Column (1-2) (ft): 1.48	6) Total Well Volume (gal) (3x5): 0.24	Pump Type: Whale Pump/Bailer

Water Quality Parameters

Time (minutes)	DTW (ft btoc)	Volume (Gallons)	Rate (gpm)	pH (pH units)	ORP (mV)	Temperature (°C)	Conductivity (uS/cm)	DO (ug/L)	Turbidity (ntu)
1000 0	18.52	0.25	1	7.31	73.3	14.1	576	7.65	OR
75	16.52	0.50	—	7.30	61.2	12.2	538	7.66	OR
1215	17.20		500mL	7.22	61.4	13.0	558	6.65	OR
1225	19.50	0.75	500mL	7.17	63.4	12.1	515	6.48	OR
1226	prey			7.54	64.8		697	6.79	—
1350	17.30	1.25	1000mL	7.54	64.8	13.0	697	6.79	Cloudy, But clearer

Total Quantity of Water Removed (gal):	1.25		

COMMENTS AND OBSERVATIONS: well ran dry after pumping 1 volume. waited for recovery + pulled volume again with a bailer. Switched to peristaltic pump for third reading + on.

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER MONITORING WELL PURGE FORM	

Project: 510 Liberty Street Phase II	WAS #:	Field Personnel: R. Lewandowski
Location: 510 Liberty Street, Rome, New York	Well ID.: MW-2	Weather: 70° F
Sounding Method: WL	Gauge Date: 6/13/23	Measurement Ref: Top of Casing
Stick Up/Down (ft): -	Gauge Time: 6/13/23	Well Diameter (in): 2

Purge Date: 6/13/23	Purge Time: 1020
Purge Method: whale Pump	Field Technician: RL, CG

1) Well Depth (ft): 20.00	4) Well Diameter (in): 2	7) Five Well Volumes (gal): 5.3
2) Depth to Water (ft): 13.53	5) Well Volume / Foot (gal) (d^2x.0408): 0.1632	Depth/Height of Top of PVC: -
3) Height of H_2O Column (1-2) (ft): 6.47	6) Total Well Volume (gal) (3x5): (x2) ~~5.3~~ 1.06	Pump Type: whale Pump

Water Quality Parameters

Time (minutes)	DTW (ft btoc)	Volume (Gallons)	Rate (gpm)	pH (pH units)	ORP (mV)	Temperature (°C)	Conductivity (uS/cm)	DO (ug/L)	Turbidity (ntu)
1020 0	13.53	0	1	7.78	63.2	14.0	880	5.04	OR
10	12.00	1	1	8.39	55.5	14.8	804	0.49	OR
40	12.10	2.5	1	7.25	55.4	12.9	1055	4.99	OR
60	12.00	5	1	7.14	56.6	12.3	1116	4.60	OR
80	12.10	6	1	7.15	57.7	11.9	1147	3.72	OR
100	12.10	7	1	7.13	52.4	12.1	1192	3.93	Visibly Clear
	13.4								

Total Quantity of Water Removed (gal):	7		

COMMENTS AND OBSERVATIONS: Well went dry after purging 1 volume. Waited for recovery + purged another volume. Repeated until turbidity lowered. Purged ~7 gals.

Full Recharge every 20 minutes.

HRP Engineering, P.C. 1 Fairchild Square, Suite 110 Clifton Park, NY 12065 (518) 877-7101	GROUNDWATER MONITORING WELL PURGE FORM	

Project: 510 Liberty Street Phase II	WAS #:	Field Personnel: R. Lewandowski
Location: 510 Liberty Street, Rome, New York	Well ID.: MW-3	Weather: 70°
Sounding Method: WL	Gauge Date: 6/13/23	Measurement Ref: Top of Casing
Stick Up/Down (ft): —	Gauge Time: 6/13/23	Well Diameter (in): 2

Purge Date: 6/13/23	Purge Time: 0840
Purge Method: Whale Pump/Peri Pump	Field Technician: RL, LG

1) Well Depth (ft): 20.00	4) Well Diameter (in): 2	7) ~~Five~~ Six Well Volumes (gal): 6.96
2) Depth to Water (ft): 12.90	5) Well Volume / Foot (gal) (d^2x.0408): ~~1.16~~ 0.1632	Depth/Height of Top of PVC: —
3) Height of H_2O Column (1-2) (ft): 7.10	6) Total Well Volume (gal) (3x5): ~~1.16~~ 1.16	Pump Type: Whale - Submersible

Water Quality Parameters

Time (minutes)	DTW (ft btoc)	Volume (Gallons)	Rate (gpm)	pH (pH units)	ORP (mV)	Temperature (°C)	Conductivity (uS/cm)	DO (ug/L)	Turbidity (ntu)
0840 0	12.90	0		7.68	69.2	12.3	967	4.87	OR
	DRY	2		7.36	72.0	12.7	905	6.46	OR
	16.00	3	500mL	7.29	72.6	12.5	914	5.13	OR
	DRY	5	500mL	7.24	61.3	14.4	962	5.79	OR
1100	13.00	6	500mL	7.55	57.1	12.0	892	4.73	Visibl, Clear
1120	DRY	7	500mL	7.21	58.3	12.3	898	5.09	" "

≤50NTU

* Parameters w/in 10% of last 3 readings

Total Quantity of Water Removed (gal):	7

COMMENTS AND OBSERVATIONS: Well ran dry after one - one and a half well volumes were removed. waited for recovery + purged again. Well purged dry w/ whale pump again. Switched to peri pump for readings 4-7. Purged until well was dry twice w/ peri. pump.

APPENDIX C
Laboratory Analytical Reports

Hampton-Clarke
Analytical & Field Services

175 US Highway 46, STE D · Fairfield, NJ 07004-2327
2 Madison Road, Fairfield, NJ 07004-2327
800-426-9992 · 973-244-9770
FAX: 973-244-9787
WWW.HCVLAB.COM

Project: 510-514 W.Liberty Street

Client PO: Not Available

Report To: HRP Associates. Inc.
1 Fairchild Square
Suite 110
Clifton Park, NY 12065
Attn: Mark Wright

Received Date: 6/13/2023

Report Date: 7/17/2023

Deliverables: NYDOH-CatB

Lab ID: AD38537

Lab Project No: 3061310

Sean Berls - Quality Assurance Officer OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

Table of Contents - 3061310

SDG Narrative

HC Case Narrative

Client: HRP Associates, Inc.
Project: 510-514 W. Liberty Street

HC Project: 3061310

Hampton-Clarke (HC) received the following samples on 6/13/2023:

Client ID	HC Sample ID	Matrix	Analysis
SB-1 10-14	AD38537-001	Soil/Encore	% Solids SM2540G, PAH (8270E), PP Metals (6020B), Mercury (7471B), Volatile (8260D)
SB-3 0-5	AD38537-002	Soil/Encore	% Solids SM2540G, PAH (8270E), PP Metals (6020B), Mercury (7471B), Volatile (8260D)
SB-4 10-12.5	AD38537-003	Soil/Encore	% Solids SM2540G, PAH (8270E), PP Metals (6020B), Mercury (7471B), Volatile (8260D)
SB-5 5-10	AD38537-004	Soil/Encore	% Solids SM2540G, PAH (8270E), PP Metals (6020B), Mercury (7471B), Volatile (8260D)
SB-6 10-11	AD38537-005	Soil/Encore	% Solids SM2540G, PAH (8270E), PP Metals (6020B), Mercury (7471B), Volatile (8260D)
SB-7 0.5-1	AD38537-006	Soil/Encore	% Solids SM2540G, PAH (8270E), PP Metals (6020B), Mercury (7471B), Volatile (8260D)
SB-8 0-2	AD38537-007	Soil/Encore	% Solids SM2540G, PAH (8270E), PP Metals (6020B), Mercury (7471B), Volatile (8260D)
SB-9 10-12	AD38537-008	Soil/Encore	% Solids SM2540G, PAH (8270E), PP Metals (6020B), Mercury (7471B), Volatile (8260D)

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

Methylene chloride was recovered in samples AD38537-001, -003, -005, -008 due to possible laboratory contamination.

The Method Blank Spike for batches 109403, 109413 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batches 109403, 109413 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

2-Chloroethylvinylether did not recover in the Matrix Spike and Matrix Spike Duplicate in batches 109403, 109413 due to acid preservation of sample. 2-Chloroethylvinylether readily decomposes under acidic conditions. The recovery of 2-Chloroethylvinylether is within QC limits in the Laboratory Control Sample. Please refer to the applicable Form 3 for the recoveries.

Base Neutral/Acid Extractable Analysis:

The Matrix Spike and/or Matrix Spike Duplicate for batch 108867 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Metals Analysis:

The Matrix Spike and/or Matrix Spike Duplicate for batch 107860 had recoveries outside QC limits. Please refer to the applicable Form 5/7 for the recoveries.

QC sample AD38537-001 was reported at a dilution for Mn due to concentration over linear range.

Wet Chemistry Analysis:

Data conforms to method requirements.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Sean Berls Quality Assurance Officer	Or	Jean Revolus Laboratory Director	7/18/23 Date

Reporting Limit Definitions

HC Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

DUP = Duplicate

LCS = Laboratory Control Spike

MBS = Method Blank Spike

MDL = Method Detection Limit

MR = Matrix Replicate

MS = Matrix Spike

MSD = Matrix Spike Duplicate

NA = Not Applicable

ND = Not Detected

PS = Post Digestion Spike

RL* = Reporting Limit

RT = Retention Time

SD = Serial Dilution

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

A- Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

B- Indicates analyte was present in the Method Blank and sample.

d- For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

E- Indicates the concentration exceeded the upper calibration range of the instrument.

J- Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

R- Retention Time is out.

Y- Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

Data Package Summary Forms

HC Report of Analysis

Client: HRP Associates. Inc. **HC Project #:** 3061310

Project: 510-514 W.Liberty Street

Sample ID: SB-1 10-14 **Collection Date:** 6/12/2023
Lab#: AD38537-001 **Receipt Date:** 6/13/2023
Matrix: Soil/Encore

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		91

Mercury (Soil/Waste) 7471B

Analyte	DF	Units	RL	Result
Mercury	1	mg/kg	0.092	ND

PAH Compounds 8270

Analyte	DF	Units	RL	Result
2-Methylnaphthalene	1	mg/kg	0.037	ND
Acenaphthene	1	mg/kg	0.037	ND
Acenaphthylene	1	mg/kg	0.037	ND
Anthracene	1	mg/kg	0.037	ND
Benzo[a]anthracene	1	mg/kg	0.037	ND
Benzo[a]pyrene	1	mg/kg	0.037	ND
Benzo[b]fluoranthene	1	mg/kg	0.037	ND
Benzo[g,h,i]perylene	1	mg/kg	0.037	ND
Benzo[k]fluoranthene	1	mg/kg	0.037	ND
Chrysene	1	mg/kg	0.037	ND
Dibenzo[a,h]anthracene	1	mg/kg	0.037	ND
Fluoranthene	1	mg/kg	0.037	ND
Fluorene	1	mg/kg	0.037	ND
Indeno[1,2,3-cd]pyrene	1	mg/kg	0.037	ND
Naphthalene	1	mg/kg	0.0092	ND
Phenanthrene	1	mg/kg	0.037	ND
Pyrene	1	mg/kg	0.037	ND

PP Metals 6020B

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.88	ND
Arsenic	**1**	**mg/kg**	**0.22**	**4.8**
Beryllium	1	mg/kg	0.22	ND
Cadmium	1	mg/kg	0.44	ND
Chromium	**1**	**mg/kg**	**0.44**	**7.8**
Copper	**1**	**mg/kg**	**2.2**	**28**
Lead	**1**	**mg/kg**	**0.44**	**3.4**
Nickel	**1**	**mg/kg**	**0.66**	**12**
Selenium	1	mg/kg	2.2	ND
Silver	1	mg/kg	0.22	ND
Thallium	1	mg/kg	0.44	ND
Zinc	**1**	**mg/kg**	**4.4**	**36**

Volatile Organics + 10 (8260)

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.833	mg/kg	0.0018	ND
1,1,2,2-Tetrachloroethane	0.833	mg/kg	0.0018	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.833	mg/kg	0.0018	ND
1,1,2-Trichloroethane	0.833	mg/kg	0.0018	ND
1,1-Dichloroethane	0.833	mg/kg	0.0018	ND

Sample ID: SB-1 10-14 **Collection Date:** 6/12/2023
Lab#: AD38537-001 **Receipt Date:** 6/13/2023
Matrix: Soil/Encore

1,1-Dichloroethene	0.833	mg/kg	0.0018	ND
1,2,3-Trichlorobenzene	0.833	mg/kg	0.0018	ND
1,2,4-Trichlorobenzene	0.833	mg/kg	0.0018	ND
1,2-Dibromo-3-chloropropane	0.833	mg/kg	0.0018	ND
1,2-Dibromoethane	0.833	mg/kg	0.00060	ND
1,2-Dichlorobenzene	0.833	mg/kg	0.0018	ND
1,2-Dichloroethane	0.833	mg/kg	0.0018	ND
1,2-Dichloropropane	0.833	mg/kg	0.0018	ND
1,3-Dichlorobenzene	0.833	mg/kg	0.0018	ND
1,4-Dichlorobenzene	0.833	mg/kg	0.0018	ND
1,4-Dioxane	0.833	mg/kg	0.092	ND
2-Butanone	0.833	mg/kg	0.0018	ND
2-Hexanone	0.833	mg/kg	0.0018	ND
4-Methyl-2-pentanone	0.833	mg/kg	0.0018	ND
Acetone	0.833	mg/kg	0.0092	ND
Benzene	0.833	mg/kg	0.00092	ND
Bromochloromethane	0.833	mg/kg	0.0018	ND
Bromodichloromethane	0.833	mg/kg	0.0018	ND
Bromoform	0.833	mg/kg	0.0018	ND
Bromomethane	0.833	mg/kg	0.0018	ND
Carbon disulfide	0.833	mg/kg	0.0018	ND
Carbon tetrachloride	0.833	mg/kg	0.0018	ND
Chlorobenzene	0.833	mg/kg	0.0018	ND
Chloroethane	0.833	mg/kg	0.0018	ND
Chloroform	0.833	mg/kg	0.0018	ND
Chloromethane	0.833	mg/kg	0.0018	ND
cis-1,2-Dichloroethene	0.833	mg/kg	0.0018	ND
cis-1,3-Dichloropropene	0.833	mg/kg	0.0018	ND
Cyclohexane	0.833	mg/kg	0.0018	ND
Dibromochloromethane	0.833	mg/kg	0.0018	ND
Dichlorodifluoromethane	0.833	mg/kg	0.0018	ND
Ethylbenzene	0.833	mg/kg	0.00092	ND
Isopropylbenzene	0.833	mg/kg	0.00092	ND
m&p-Xylenes	0.833	mg/kg	0.0013	ND
Methyl Acetate	**0.833**	**mg/kg**	**0.0018**	**0.0042**
Methylcyclohexane	0.833	mg/kg	0.0018	ND
Methylene chloride	**0.833**	**mg/kg**	**0.0018**	**0.0062**
Methyl-t-butyl ether	0.833	mg/kg	0.00092	ND
o-Xylene	0.833	mg/kg	0.00092	ND
Styrene	0.833	mg/kg	0.0018	ND
Tetrachloroethene	0.833	mg/kg	0.0018	ND
Toluene	0.833	mg/kg	0.00092	ND
trans-1,2-Dichloroethene	0.833	mg/kg	0.0018	ND
trans-1,3-Dichloropropene	0.833	mg/kg	0.0018	ND
Trichloroethene	0.833	mg/kg	0.0018	ND
Trichlorofluoromethane	0.833	mg/kg	0.0018	ND
Vinyl chloride	0.833	mg/kg	0.0018	ND
Xylenes (Total)	0.833	mg/kg	0.00092	ND

Volatile Organics + 10 (8260) Library Searches

Analyte	DF	Units	RT	Result
No Unknown Compounds Detected	0.833	mg/kg	NA	ND
TotalVolatileTic	0.833	mg/kg	NA	ND

Sample ID: SB-3 0-5 | **Collection Date:** 6/12/2023
Lab#: AD38537-002 | **Receipt Date:** 6/13/2023
Matrix: Soil/Encore

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		89

Mercury (Soil/Waste) 7471B

Analyte	DF	Units	RL	Result
Mercury	1	mg/kg	0.094	0.19

PAH Compounds 8270

Analyte	DF	Units	RL	Result
2-Methylnaphthalene	1	mg/kg	0.037	ND
Acenaphthene	1	mg/kg	0.037	ND
Acenaphthylene	1	mg/kg	0.037	ND
Anthracene	1	mg/kg	0.037	ND
Benzo[a]anthracene	**1**	**mg/kg**	**0.037**	**0.062**
Benzo[a]pyrene	**1**	**mg/kg**	**0.037**	**0.083**
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.037**	**0.10**
Benzo[g,h,i]perylene	**1**	**mg/kg**	**0.037**	**0.058**
Benzo[k]fluoranthene	1	mg/kg	0.037	ND
Chrysene	**1**	**mg/kg**	**0.037**	**0.071**
Dibenzo[a,h]anthracene	1	mg/kg	0.037	ND
Fluoranthene	**1**	**mg/kg**	**0.037**	**0.067**
Fluorene	1	mg/kg	0.037	ND
Indeno[1,2,3-cd]pyrene	**1**	**mg/kg**	**0.037**	**0.050**
Naphthalene	1	mg/kg	0.0094	ND
Phenanthrene	**1**	**mg/kg**	**0.037**	**0.041**
Pyrene	**1**	**mg/kg**	**0.037**	**0.071**

PP Metals 6020B

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.90	ND
Arsenic	**1**	**mg/kg**	**0.22**	**4.9**
Beryllium	**1**	**mg/kg**	**0.22**	**0.23**
Cadmium	1	mg/kg	0.45	ND
Chromium	**1**	**mg/kg**	**0.45**	**6.2**
Copper	**1**	**mg/kg**	**2.2**	**18**
Lead	**1**	**mg/kg**	**0.45**	**35**
Nickel	**1**	**mg/kg**	**0.67**	**8.8**
Selenium	1	mg/kg	2.2	ND
Silver	1	mg/kg	0.22	ND
Thallium	1	mg/kg	0.45	ND
Zinc	**1**	**mg/kg**	**4.5**	**63**

Volatile Organics + 10 (8260)

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.868	mg/kg	0.0020	ND
1,1,2,2-Tetrachloroethane	0.868	mg/kg	0.0020	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.868	mg/kg	0.0020	ND
1,1,2-Trichloroethane	0.868	mg/kg	0.0020	ND
1,1-Dichloroethane	0.868	mg/kg	0.0020	ND
1,1-Dichloroethene	0.868	mg/kg	0.0020	ND
1,2,3-Trichlorobenzene	0.868	mg/kg	0.0020	ND
1,2,4-Trichlorobenzene	0.868	mg/kg	0.0020	ND
1,2-Dibromo-3-chloropropane	0.868	mg/kg	0.0020	ND
1,2-Dibromoethane	0.868	mg/kg	0.00063	ND
1,2-Dichlorobenzene	0.868	mg/kg	0.0020	ND
1,2-Dichloroethane	0.868	mg/kg	0.0020	ND

Sample ID: SB-3 0-5 | **Collection Date:** 6/12/2023
Lab#: AD38537-002 | **Receipt Date:** 6/13/2023
Matrix: Soil/Encore

1,2-Dichloropropane	0.868	mg/kg	0.0020	ND
1,3-Dichlorobenzene	0.868	mg/kg	0.0020	ND
1,4-Dichlorobenzene	0.868	mg/kg	0.0020	ND
1,4-Dioxane	0.868	mg/kg	0.098	ND
2-Butanone	0.868	mg/kg	0.0020	ND
2-Hexanone	0.868	mg/kg	0.0020	ND
4-Methyl-2-pentanone	0.868	mg/kg	0.0020	ND
Acetone	0.868	mg/kg	0.0098	ND
Benzene	0.868	mg/kg	0.00098	ND
Bromochloromethane	0.868	mg/kg	0.0020	ND
Bromodichloromethane	0.868	mg/kg	0.0020	ND
Bromoform	0.868	mg/kg	0.0020	ND
Bromomethane	0.868	mg/kg	0.0020	ND
Carbon disulfide	0.868	mg/kg	0.0020	ND
Carbon tetrachloride	0.868	mg/kg	0.0020	ND
Chlorobenzene	0.868	mg/kg	0.0020	ND
Chloroethane	0.868	mg/kg	0.0020	ND
Chloroform	0.868	mg/kg	0.0020	ND
Chloromethane	0.868	mg/kg	0.0020	ND
cis-1,2-Dichloroethene	0.868	mg/kg	0.0020	ND
cis-1,3-Dichloropropene	0.868	mg/kg	0.0020	ND
Cyclohexane	0.868	mg/kg	0.0020	ND
Dibromochloromethane	0.868	mg/kg	0.0020	ND
Dichlorodifluoromethane	0.868	mg/kg	0.0020	ND
Ethylbenzene	0.868	mg/kg	0.00098	ND
Isopropylbenzene	0.868	mg/kg	0.00098	ND
m&p-Xylenes	0.868	mg/kg	0.0014	ND
Methyl Acetate	0.868	mg/kg	0.0020	ND
Methylcyclohexane	0.868	mg/kg	0.0020	ND
Methylene chloride	0.868	mg/kg	0.0020	ND
Methyl-t-butyl ether	0.868	mg/kg	0.00098	ND
o-Xylene	0.868	mg/kg	0.00098	ND
Styrene	0.868	mg/kg	0.0020	ND
Tetrachloroethene	0.868	mg/kg	0.0020	ND
Toluene	0.868	mg/kg	0.00098	ND
trans-1,2-Dichloroethene	0.868	mg/kg	0.0020	ND
trans-1,3-Dichloropropene	0.868	mg/kg	0.0020	ND
Trichloroethene	0.868	mg/kg	0.0020	ND
Trichlorofluoromethane	0.868	mg/kg	0.0020	ND
Vinyl chloride	0.868	mg/kg	0.0020	ND
Xylenes (Total)	0.868	mg/kg	0.00098	ND

Volatile Organics + 10 (8260) Library Searches

Analyte	DF	Units	RT	Result
No Unknown Compounds Detected	0.868	mg/kg	NA	ND
TotalVolatileTic	0.868	mg/kg	NA	ND

Sample ID: SB-4 10-12.5 | **Collection Date:** 6/12/2023
Lab#: AD38537-003 | **Receipt Date:** 6/13/2023
Matrix: Soil/Encore

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**84**

Mercury (Soil/Waste) 7471B

Analyte	DF	Units	RL	Result
Mercury	1	mg/kg	0.099	ND

PAH Compounds 8270

Analyte	DF	Units	RL	Result
2-Methylnaphthalene	1	mg/kg	0.040	ND
Acenaphthene	1	mg/kg	0.040	ND
Acenaphthylene	1	mg/kg	0.040	ND
Anthracene	1	mg/kg	0.040	ND
Benzo[a]anthracene	**1**	**mg/kg**	**0.040**	**0.046**
Benzo[a]pyrene	**1**	**mg/kg**	**0.040**	**0.045**
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.040**	**0.048**
Benzo[g,h,i]perylene	1	mg/kg	0.040	ND
Benzo[k]fluoranthene	1	mg/kg	0.040	ND
Chrysene	**1**	**mg/kg**	**0.040**	**0.044**
Dibenzo[a,h]anthracene	1	mg/kg	0.040	ND
Fluoranthene	**1**	**mg/kg**	**0.040**	**0.074**
Fluorene	1	mg/kg	0.040	ND
Indeno[1,2,3-cd]pyrene	1	mg/kg	0.040	ND
Naphthalene	**1**	**mg/kg**	**0.0099**	**0.013**
Phenanthrene	**1**	**mg/kg**	**0.040**	**0.095**
Pyrene	**1**	**mg/kg**	**0.040**	**0.070**

PP Metals 6020B

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.95	ND
Arsenic	**1**	**mg/kg**	**0.24**	**3.3**
Beryllium	**1**	**mg/kg**	**0.24**	**0.28**
Cadmium	1	mg/kg	0.48	ND
Chromium	**1**	**mg/kg**	**0.48**	**7.3**
Copper	**1**	**mg/kg**	**2.4**	**17**
Lead	**1**	**mg/kg**	**0.48**	**6.3**
Nickel	**1**	**mg/kg**	**0.71**	**9.4**
Selenium	1	mg/kg	2.4	ND
Silver	1	mg/kg	0.24	ND
Thallium	1	mg/kg	0.48	ND
Zinc	**1**	**mg/kg**	**4.8**	**29**

Volatile Organics + 10 (8260)

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.71	mg/kg	0.0017	ND
1,1,2,2-Tetrachloroethane	0.71	mg/kg	0.0017	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.71	mg/kg	0.0017	ND
1,1,2-Trichloroethane	0.71	mg/kg	0.0017	ND
1,1-Dichloroethane	0.71	mg/kg	0.0017	ND
1,1-Dichloroethene	0.71	mg/kg	0.0017	ND
1,2,3-Trichlorobenzene	0.71	mg/kg	0.0017	ND
1,2,4-Trichlorobenzene	0.71	mg/kg	0.0017	ND
1,2-Dibromo-3-chloropropane	0.71	mg/kg	0.0017	ND
1,2-Dibromoethane	0.71	mg/kg	0.00055	ND
1,2-Dichlorobenzene	0.71	mg/kg	0.0017	ND
1,2-Dichloroethane	0.71	mg/kg	0.0017	ND

Sample ID: SB-4 10-12.5 **Collection Date:** 6/12/2023
Lab#: AD38537-003 **Receipt Date:** 6/13/2023
Matrix: Soil/Encore

1,2-Dichloropropane	0.71	mg/kg	0.0017	ND
1,3-Dichlorobenzene	0.71	mg/kg	0.0017	ND
1,4-Dichlorobenzene	0.71	mg/kg	0.0017	ND
1,4-Dioxane	0.71	mg/kg	0.085	ND
2-Butanone	**0.71**	**mg/kg**	**0.0017**	**0.0072**
2-Hexanone	0.71	mg/kg	0.0017	ND
4-Methyl-2-pentanone	0.71	mg/kg	0.0017	ND
Acetone	**0.71**	**mg/kg**	**0.0085**	**0.035**
Benzene	0.71	mg/kg	0.00085	ND
Bromochloromethane	0.71	mg/kg	0.0017	ND
Bromodichloromethane	0.71	mg/kg	0.0017	ND
Bromoform	0.71	mg/kg	0.0017	ND
Bromomethane	0.71	mg/kg	0.0017	ND
Carbon disulfide	**0.71**	**mg/kg**	**0.0017**	**0.0019**
Carbon tetrachloride	0.71	mg/kg	0.0017	ND
Chlorobenzene	0.71	mg/kg	0.0017	ND
Chloroethane	0.71	mg/kg	0.0017	ND
Chloroform	0.71	mg/kg	0.0017	ND
Chloromethane	0.71	mg/kg	0.0017	ND
cis-1,2-Dichloroethene	0.71	mg/kg	0.0017	ND
cis-1,3-Dichloropropene	0.71	mg/kg	0.0017	ND
Cyclohexane	0.71	mg/kg	0.0017	ND
Dibromochloromethane	0.71	mg/kg	0.0017	ND
Dichlorodifluoromethane	0.71	mg/kg	0.0017	ND
Ethylbenzene	0.71	mg/kg	0.00085	ND
Isopropylbenzene	0.71	mg/kg	0.00085	ND
m&p-Xylenes	0.71	mg/kg	0.0012	ND
Methyl Acetate	0.71	mg/kg	0.0017	ND
Methylcyclohexane	0.71	mg/kg	0.0017	ND
Methylene chloride	**0.71**	**mg/kg**	**0.0017**	**0.0024**
Methyl-t-butyl ether	0.71	mg/kg	0.00085	ND
o-Xylene	0.71	mg/kg	0.00085	ND
Styrene	0.71	mg/kg	0.0017	ND
Tetrachloroethene	0.71	mg/kg	0.0017	ND
Toluene	0.71	mg/kg	0.00085	ND
trans-1,2-Dichloroethene	0.71	mg/kg	0.0017	ND
trans-1,3-Dichloropropene	0.71	mg/kg	0.0017	ND
Trichloroethene	0.71	mg/kg	0.0017	ND
Trichlorofluoromethane	0.71	mg/kg	0.0017	ND
Vinyl chloride	0.71	mg/kg	0.0017	ND
Xylenes (Total)	0.71	mg/kg	0.00085	ND

Volatile Organics + 10 (8260) Library Searches

Analyte	DF	Units	RT	Result
No Unknown Compounds Detected	0.71	mg/kg	NA	ND
TotalVolatileTic	0.71	mg/kg	NA	ND

Sample ID: SB-5 5-10 | **Collection Date:** 6/12/2023
Lab#: AD38537-004 | **Receipt Date:** 6/13/2023
Matrix: Soil/Encore

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		80

Mercury (Soil/Waste) 7471B

Analyte	DF	Units	RL	Result
Mercury	1	mg/kg	0.10	0.13

PAH Compounds 8270

Analyte	DF	Units	RL	Result
2-Methylnaphthalene	1	mg/kg	0.042	ND
Acenaphthene	1	mg/kg	0.042	ND
Acenaphthylene	1	mg/kg	0.042	0.37
Anthracene	1	mg/kg	0.042	0.30
Benzo[a]anthracene	1	mg/kg	0.042	1.1
Benzo[a]pyrene	1	mg/kg	0.042	1.3
Benzo[b]fluoranthene	1	mg/kg	0.042	1.5
Benzo[g,h,i]perylene	1	mg/kg	0.042	0.95
Benzo[k]fluoranthene	1	mg/kg	0.042	0.42
Chrysene	1	mg/kg	0.042	1.3
Dibenzo[a,h]anthracene	1	mg/kg	0.042	0.24
Fluoranthene	1	mg/kg	0.042	2.4
Fluorene	1	mg/kg	0.042	0.13
Indeno[1,2,3-cd]pyrene	1	mg/kg	0.042	0.75
Naphthalene	1	mg/kg	0.010	0.11
Phenanthrene	1	mg/kg	0.042	1.8
Pyrene	1	mg/kg	0.042	2.5

PP Metals 6020B

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	1.0	ND
Arsenic	1	mg/kg	0.25	11
Beryllium	1	mg/kg	0.25	0.38
Cadmium	1	mg/kg	0.50	ND
Chromium	1	mg/kg	0.50	5.8
Copper	1	mg/kg	2.5	36
Lead	1	mg/kg	0.50	130
Nickel	1	mg/kg	0.75	9.7
Selenium	1	mg/kg	2.5	ND
Silver	1	mg/kg	0.25	ND
Thallium	1	mg/kg	0.50	ND
Zinc	1	mg/kg	5.0	85

Volatile Organics + 10 (8260)

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.965	mg/kg	0.0024	ND
1,1,2,2-Tetrachloroethane	0.965	mg/kg	0.0024	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.965	mg/kg	0.0024	ND
1,1,2-Trichloroethane	0.965	mg/kg	0.0024	ND
1,1-Dichloroethane	0.965	mg/kg	0.0024	ND
1,1-Dichloroethene	0.965	mg/kg	0.0024	ND
1,2,3-Trichlorobenzene	0.965	mg/kg	0.0024	ND
1,2,4-Trichlorobenzene	0.965	mg/kg	0.0024	ND
1,2-Dibromo-3-chloropropane	0.965	mg/kg	0.0024	ND
1,2-Dibromoethane	0.965	mg/kg	0.00078	ND
1,2-Dichlorobenzene	0.965	mg/kg	0.0024	ND
1,2-Dichloroethane	0.965	mg/kg	0.0024	ND

Sample ID: SB-5 5-10 **Collection Date:** 6/12/2023
Lab#: AD38537-004 **Receipt Date:** 6/13/2023
Matrix: Soil/Encore

1,2-Dichloropropane	0.965	mg/kg	0.0024	ND
1,3-Dichlorobenzene	0.965	mg/kg	0.0024	ND
1,4-Dichlorobenzene	0.965	mg/kg	0.0024	ND
1,4-Dioxane	0.965	mg/kg	0.12	ND
2-Butanone	0.965	mg/kg	0.0024	ND
2-Hexanone	0.965	mg/kg	0.0024	ND
4-Methyl-2-pentanone	0.965	mg/kg	0.0024	ND
Acetone	0.965	mg/kg	0.012	ND
Benzene	0.965	mg/kg	0.0012	ND
Bromochloromethane	0.965	mg/kg	0.0024	ND
Bromodichloromethane	0.965	mg/kg	0.0024	ND
Bromoform	0.965	mg/kg	0.0024	ND
Bromomethane	0.965	mg/kg	0.0024	ND
Carbon disulfide	0.965	mg/kg	0.0024	ND
Carbon tetrachloride	0.965	mg/kg	0.0024	ND
Chlorobenzene	0.965	mg/kg	0.0024	ND
Chloroethane	0.965	mg/kg	0.0024	ND
Chloroform	0.965	mg/kg	0.0024	ND
Chloromethane	0.965	mg/kg	0.0024	ND
cis-1,2-Dichloroethene	0.965	mg/kg	0.0024	ND
cis-1,3-Dichloropropene	0.965	mg/kg	0.0024	ND
Cyclohexane	0.965	mg/kg	0.0024	ND
Dibromochloromethane	0.965	mg/kg	0.0024	ND
Dichlorodifluoromethane	0.965	mg/kg	0.0024	ND
Ethylbenzene	0.965	mg/kg	0.0012	ND
Isopropylbenzene	0.965	mg/kg	0.0012	ND
m&p-Xylenes	0.965	mg/kg	0.0018	ND
Methyl Acetate	0.965	mg/kg	0.0024	ND
Methylcyclohexane	0.965	mg/kg	0.0024	ND
Methylene chloride	0.965	mg/kg	0.0024	ND
Methyl-t-butyl ether	0.965	mg/kg	0.0012	ND
o-Xylene	0.965	mg/kg	0.0012	ND
Styrene	0.965	mg/kg	0.0024	ND
Tetrachloroethene	0.965	mg/kg	0.0024	ND
Toluene	0.965	mg/kg	0.0012	ND
trans-1,2-Dichloroethene	0.965	mg/kg	0.0024	ND
trans-1,3-Dichloropropene	0.965	mg/kg	0.0024	ND
Trichloroethene	0.965	mg/kg	0.0024	ND
Trichlorofluoromethane	0.965	mg/kg	0.0024	ND
Vinyl chloride	0.965	mg/kg	0.0024	ND
Xylenes (Total)	0.965	mg/kg	0.0012	ND

Volatile Organics + 10 (8260) Library Searches

Analyte	DF	Units	RT	Result
No Unknown Compounds Detected	0.965	mg/kg	NA	ND
TotalVolatileTic	0.965	mg/kg	NA	ND

Sample ID: SB-6 10-11 | **Collection Date:** 6/12/2023
Lab#: AD38537-005 | **Receipt Date:** 6/13/2023
Matrix: Soil/Encore

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		83

Mercury (Soil/Waste) 7471B

Analyte	DF	Units	RL	Result
Mercury	1	mg/kg	0.10	ND

PAH Compounds 8270

Analyte	DF	Units	RL	Result
2-Methylnaphthalene	1	mg/kg	0.040	ND
Acenaphthene	1	mg/kg	0.040	ND
Acenaphthylene	1	mg/kg	0.040	ND
Anthracene	1	mg/kg	0.040	ND
Benzo[a]anthracene	1	mg/kg	0.040	ND
Benzo[a]pyrene	1	mg/kg	0.040	ND
Benzo[b]fluoranthene	1	mg/kg	0.040	ND
Benzo[g,h,i]perylene	1	mg/kg	0.040	ND
Benzo[k]fluoranthene	1	mg/kg	0.040	ND
Chrysene	1	mg/kg	0.040	ND
Dibenzo[a,h]anthracene	1	mg/kg	0.040	ND
Fluoranthene	1	mg/kg	0.040	ND
Fluorene	1	mg/kg	0.040	ND
Indeno[1,2,3-cd]pyrene	1	mg/kg	0.040	ND
Naphthalene	1	mg/kg	0.010	ND
Phenanthrene	1	mg/kg	0.040	ND
Pyrene	1	mg/kg	0.040	ND

PP Metals 6020B

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.96	ND
Arsenic	**1**	**mg/kg**	**0.24**	**4.6**
Beryllium	**1**	**mg/kg**	**0.24**	**0.32**
Cadmium	1	mg/kg	0.48	ND
Chromium	**1**	**mg/kg**	**0.48**	**8.3**
Copper	**1**	**mg/kg**	**2.4**	**20**
Lead	**1**	**mg/kg**	**0.48**	**5.5**
Nickel	**1**	**mg/kg**	**0.72**	**12**
Selenium	**1**	**mg/kg**	**2.4**	**2.6**
Silver	1	mg/kg	0.24	ND
Thallium	1	mg/kg	0.48	ND
Zinc	**1**	**mg/kg**	**4.8**	**34**

Volatile Organics + 10 (8260)

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.739	mg/kg	0.0018	ND
1,1,2,2-Tetrachloroethane	0.739	mg/kg	0.0018	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.739	mg/kg	0.0018	ND
1,1,2-Trichloroethane	0.739	mg/kg	0.0018	ND
1,1-Dichloroethane	0.739	mg/kg	0.0018	ND
1,1-Dichloroethene	0.739	mg/kg	0.0018	ND
1,2,3-Trichlorobenzene	0.739	mg/kg	0.0018	ND
1,2,4-Trichlorobenzene	0.739	mg/kg	0.0018	ND
1,2-Dibromo-3-chloropropane	0.739	mg/kg	0.0018	ND
1,2-Dibromoethane	0.739	mg/kg	0.00058	ND
1,2-Dichlorobenzene	0.739	mg/kg	0.0018	ND
1,2-Dichloroethane	0.739	mg/kg	0.0018	ND

Sample ID:	**SB-6 10-11**	**Collection Date:**	**6/12/2023**
Lab#:	**AD38537-005**	**Receipt Date:**	**6/13/2023**
Matrix:	**Soil/Encore**		

1,2-Dichloropropane	0.739	mg/kg	0.0018	ND
1,3-Dichlorobenzene	0.739	mg/kg	0.0018	ND
1,4-Dichlorobenzene	0.739	mg/kg	0.0018	ND
1,4-Dioxane	0.739	mg/kg	0.089	ND
2-Butanone	**0.739**	**mg/kg**	**0.0018**	**0.0049**
2-Hexanone	0.739	mg/kg	0.0018	ND
4-Methyl-2-pentanone	0.739	mg/kg	0.0018	ND
Acetone	**0.739**	**mg/kg**	**0.0089**	**0.023**
Benzene	0.739	mg/kg	0.00089	ND
Bromochloromethane	0.739	mg/kg	0.0018	ND
Bromodichloromethane	0.739	mg/kg	0.0018	ND
Bromoform	0.739	mg/kg	0.0018	ND
Bromomethane	0.739	mg/kg	0.0018	ND
Carbon disulfide	**0.739**	**mg/kg**	**0.0018**	**0.0084**
Carbon tetrachloride	0.739	mg/kg	0.0018	ND
Chlorobenzene	0.739	mg/kg	0.0018	ND
Chloroethane	0.739	mg/kg	0.0018	ND
Chloroform	0.739	mg/kg	0.0018	ND
Chloromethane	0.739	mg/kg	0.0018	ND
cis-1,2-Dichloroethene	0.739	mg/kg	0.0018	ND
cis-1,3-Dichloropropene	0.739	mg/kg	0.0018	ND
Cyclohexane	0.739	mg/kg	0.0018	ND
Dibromochloromethane	0.739	mg/kg	0.0018	ND
Dichlorodifluoromethane	0.739	mg/kg	0.0018	ND
Ethylbenzene	0.739	mg/kg	0.00089	ND
Isopropylbenzene	0.739	mg/kg	0.00089	ND
m&p-Xylenes	0.739	mg/kg	0.0013	ND
Methyl Acetate	0.739	mg/kg	0.0018	ND
Methylcyclohexane	0.739	mg/kg	0.0018	ND
Methylene chloride	**0.739**	**mg/kg**	**0.0018**	**0.0024**
Methyl-t-butyl ether	0.739	mg/kg	0.00089	ND
o-Xylene	0.739	mg/kg	0.00089	ND
Styrene	0.739	mg/kg	0.0018	ND
Tetrachloroethene	0.739	mg/kg	0.0018	ND
Toluene	0.739	mg/kg	0.00089	ND
trans-1,2-Dichloroethene	0.739	mg/kg	0.0018	ND
trans-1,3-Dichloropropene	0.739	mg/kg	0.0018	ND
Trichloroethene	0.739	mg/kg	0.0018	ND
Trichlorofluoromethane	0.739	mg/kg	0.0018	ND
Vinyl chloride	0.739	mg/kg	0.0018	ND
Xylenes (Total)	0.739	mg/kg	0.00089	ND

Volatile Organics + 10 (8260) Library Searches

Analyte	DF	Units	RT	Result
Octane, 2,3-dimethyl-	**0.739**	**mg/kg**	**7.34**	**0.050J**
Cyclohexane, 1-ethyl-2,4-dimethyl-	**0.739**	**mg/kg**	**7.41**	**0.033J**
unknown	**0.739**	**mg/kg**	**7.63**	**0.044J**
unknown	**0.739**	**mg/kg**	**7.84**	**0.050J**
1-Decene, 4-methyl-	**0.739**	**mg/kg**	**7.92**	**0.080J**
unknown	**0.739**	**mg/kg**	**7.98**	**0.080J**
Norbornane, 2-isobutyl-	**0.739**	**mg/kg**	**8.09**	**0.055J**
unknown	**0.739**	**mg/kg**	**8.42**	**0.063J**
unknown	**0.739**	**mg/kg**	**8.79**	**0.038J**
unknown	**0.739**	**mg/kg**	**8.92**	**0.036J**
TotalVolatileTic	**0.739**	**mg/kg**	**NA**	**0.53J**

Sample ID: SB-7 0.5-1
Lab#: AD38537-006
Matrix: Soil/Encore
Collection Date: 6/12/2023
Receipt Date: 6/13/2023

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**83**

Mercury (Soil/Waste) 7471B

Analyte	DF	Units	RL	Result
Mercury	**1**	**mg/kg**	**0.10**	**0.12**

PAH Compounds 8270

Analyte	DF	Units	RL	Result
2-Methylnaphthalene	1	mg/kg	0.040	ND
Acenaphthene	1	mg/kg	0.040	ND
Acenaphthylene	1	mg/kg	0.040	ND
Anthracene	1	mg/kg	0.040	ND
Benzo[a]anthracene	**1**	**mg/kg**	**0.040**	**0.086**
Benzo[a]pyrene	**1**	**mg/kg**	**0.040**	**0.11**
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.040**	**0.13**
Benzo[g,h,i]perylene	**1**	**mg/kg**	**0.040**	**0.082**
Benzo[k]fluoranthene	1	mg/kg	0.040	ND
Chrysene	**1**	**mg/kg**	**0.040**	**0.11**
Dibenzo[a,h]anthracene	1	mg/kg	0.040	ND
Fluoranthene	**1**	**mg/kg**	**0.040**	**0.069**
Fluorene	1	mg/kg	0.040	ND
Indeno[1,2,3-cd]pyrene	**1**	**mg/kg**	**0.040**	**0.064**
Naphthalene	1	mg/kg	0.010	ND
Phenanthrene	**1**	**mg/kg**	**0.040**	**0.061**
Pyrene	**1**	**mg/kg**	**0.040**	**0.074**

PP Metals 6020B

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.96	ND
Arsenic	**1**	**mg/kg**	**0.24**	**9.9**
Beryllium	**1**	**mg/kg**	**0.24**	**0.74**
Cadmium	1	mg/kg	0.48	ND
Chromium	**1**	**mg/kg**	**0.48**	**9.2**
Copper	**1**	**mg/kg**	**2.4**	**53**
Lead	**1**	**mg/kg**	**0.48**	**42**
Nickel	**1**	**mg/kg**	**0.72**	**14**
Selenium	**1**	**mg/kg**	**2.4**	**2.6**
Silver	1	mg/kg	0.24	ND
Thallium	1	mg/kg	0.48	ND
Zinc	**1**	**mg/kg**	**4.8**	**59**

Volatile Organics + 10 (8260)

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.969	mg/kg	0.0023	ND
1,1,2,2-Tetrachloroethane	0.969	mg/kg	0.0023	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.969	mg/kg	0.0023	ND
1,1,2-Trichloroethane	0.969	mg/kg	0.0023	ND
1,1-Dichloroethane	0.969	mg/kg	0.0023	ND
1,1-Dichloroethene	0.969	mg/kg	0.0023	ND
1,2,3-Trichlorobenzene	0.969	mg/kg	0.0023	ND
1,2,4-Trichlorobenzene	0.969	mg/kg	0.0023	ND
1,2-Dibromo-3-chloropropane	0.969	mg/kg	0.0023	ND
1,2-Dibromoethane	0.969	mg/kg	0.00076	ND
1,2-Dichlorobenzene	0.969	mg/kg	0.0023	ND
1,2-Dichloroethane	0.969	mg/kg	0.0023	ND

Sample ID: SB-7 0.5-1 **Collection Date:** 6/12/2023
Lab#: AD38537-006 **Receipt Date:** 6/13/2023
Matrix: Soil/Encore

1,2-Dichloropropane	0.969	mg/kg	0.0023	ND
1,3-Dichlorobenzene	0.969	mg/kg	0.0023	ND
1,4-Dichlorobenzene	0.969	mg/kg	0.0023	ND
1,4-Dioxane	0.969	mg/kg	0.12	ND
2-Butanone	0.969	mg/kg	0.0023	ND
2-Hexanone	0.969	mg/kg	0.0023	ND
4-Methyl-2-pentanone	0.969	mg/kg	0.0023	ND
Acetone	0.969	mg/kg	0.012	ND
Benzene	0.969	mg/kg	0.0012	ND
Bromochloromethane	0.969	mg/kg	0.0023	ND
Bromodichloromethane	0.969	mg/kg	0.0023	ND
Bromoform	0.969	mg/kg	0.0023	ND
Bromomethane	0.969	mg/kg	0.0023	ND
Carbon disulfide	0.969	mg/kg	0.0023	ND
Carbon tetrachloride	0.969	mg/kg	0.0023	ND
Chlorobenzene	0.969	mg/kg	0.0023	ND
Chloroethane	0.969	mg/kg	0.0023	ND
Chloroform	0.969	mg/kg	0.0023	ND
Chloromethane	0.969	mg/kg	0.0023	ND
cis-1,2-Dichloroethene	0.969	mg/kg	0.0023	ND
cis-1,3-Dichloropropene	0.969	mg/kg	0.0023	ND
Cyclohexane	0.969	mg/kg	0.0023	ND
Dibromochloromethane	0.969	mg/kg	0.0023	ND
Dichlorodifluoromethane	0.969	mg/kg	0.0023	ND
Ethylbenzene	0.969	mg/kg	0.0012	ND
Isopropylbenzene	0.969	mg/kg	0.0012	ND
m&p-Xylenes	0.969	mg/kg	0.0017	ND
Methyl Acetate	0.969	mg/kg	0.0023	ND
Methylcyclohexane	0.969	mg/kg	0.0023	ND
Methylene chloride	0.969	mg/kg	0.0023	ND
Methyl-t-butyl ether	0.969	mg/kg	0.0012	ND
o-Xylene	0.969	mg/kg	0.0012	ND
Styrene	0.969	mg/kg	0.0023	ND
Tetrachloroethene	0.969	mg/kg	0.0023	ND
Toluene	0.969	mg/kg	0.0012	ND
trans-1,2-Dichloroethene	0.969	mg/kg	0.0023	ND
trans-1,3-Dichloropropene	0.969	mg/kg	0.0023	ND
Trichloroethene	0.969	mg/kg	0.0023	ND
Trichlorofluoromethane	0.969	mg/kg	0.0023	ND
Vinyl chloride	0.969	mg/kg	0.0023	ND
Xylenes (Total)	0.969	mg/kg	0.0012	ND

Volatile Organics + 10 (8260) Library Searches

Analyte	DF	Units	RT	Result
No Unknown Compounds Detected	0.969	mg/kg	NA	ND
TotalVolatileTic	0.969	mg/kg	NA	ND

Sample ID: SB-8 0-2
Lab#: AD38537-007
Matrix: Soil/Encore
Collection Date: 6/12/2023
Receipt Date: 6/13/2023

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		91

Mercury (Soil/Waste) 7471B

Analyte	DF	Units	RL	Result
Mercury	1	mg/kg	0.092	0.29

PAH Compounds 8270

Analyte	DF	Units	RL	Result
2-Methylnaphthalene	3	mg/kg	0.11	ND
Acenaphthene	3	mg/kg	0.11	ND
Acenaphthylene	3	mg/kg	0.11	ND
Anthracene	3	mg/kg	0.11	0.18
Benzo[a]anthracene	3	mg/kg	0.11	0.66
Benzo[a]pyrene	3	mg/kg	0.11	0.77
Benzo[b]fluoranthene	3	mg/kg	0.11	0.89
Benzo[g,h,i]perylene	3	mg/kg	0.11	0.45
Benzo[k]fluoranthene	3	mg/kg	0.11	0.32
Chrysene	3	mg/kg	0.11	0.72
Dibenzo[a,h]anthracene	3	mg/kg	0.11	0.14
Fluoranthene	3	mg/kg	0.11	1.1
Fluorene	3	mg/kg	0.11	ND
Indeno[1,2,3-cd]pyrene	3	mg/kg	0.11	0.41
Naphthalene	3	mg/kg	0.027	0.029
Phenanthrene	3	mg/kg	0.11	0.69
Pyrene	3	mg/kg	0.11	1.1

PP Metals 6020B

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.88	ND
Arsenic	1	mg/kg	0.22	6.5
Beryllium	1	mg/kg	0.22	0.30
Cadmium	1	mg/kg	0.44	ND
Chromium	1	mg/kg	0.44	8.8
Copper	1	mg/kg	2.2	35
Lead	1	mg/kg	0.44	90
Nickel	1	mg/kg	0.66	12
Selenium	1	mg/kg	2.2	ND
Silver	1	mg/kg	0.22	ND
Thallium	1	mg/kg	0.44	ND
Zinc	1	mg/kg	4.4	74

Volatile Organics + 10 (8260)

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.921	mg/kg	0.0020	ND
1,1,2,2-Tetrachloroethane	0.921	mg/kg	0.0020	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.921	mg/kg	0.0020	ND
1,1,2-Trichloroethane	0.921	mg/kg	0.0020	ND
1,1-Dichloroethane	0.921	mg/kg	0.0020	ND
1,1-Dichloroethene	0.921	mg/kg	0.0020	ND
1,2,3-Trichlorobenzene	0.921	mg/kg	0.0020	ND
1,2,4-Trichlorobenzene	0.921	mg/kg	0.0020	ND
1,2-Dibromo-3-chloropropane	0.921	mg/kg	0.0020	ND
1,2-Dibromoethane	0.921	mg/kg	0.00066	ND
1,2-Dichlorobenzene	0.921	mg/kg	0.0020	ND
1,2-Dichloroethane	0.921	mg/kg	0.0020	ND

Sample ID: SB-8 0-2 **Collection Date:** 6/12/2023
Lab#: AD38537-007 **Receipt Date:** 6/13/2023
Matrix: Soil/Encore

1,2-Dichloropropane	0.921	mg/kg	0.0020	ND
1,3-Dichlorobenzene	0.921	mg/kg	0.0020	ND
1,4-Dichlorobenzene	0.921	mg/kg	0.0020	ND
1,4-Dioxane	0.921	mg/kg	0.10	ND
2-Butanone	0.921	mg/kg	0.0020	ND
2-Hexanone	0.921	mg/kg	0.0020	ND
4-Methyl-2-pentanone	0.921	mg/kg	0.0020	ND
Acetone	0.921	mg/kg	0.010	ND
Benzene	0.921	mg/kg	0.0010	ND
Bromochloromethane	0.921	mg/kg	0.0020	ND
Bromodichloromethane	0.921	mg/kg	0.0020	ND
Bromoform	0.921	mg/kg	0.0020	ND
Bromomethane	0.921	mg/kg	0.0020	ND
Carbon disulfide	0.921	mg/kg	0.0020	ND
Carbon tetrachloride	0.921	mg/kg	0.0020	ND
Chlorobenzene	0.921	mg/kg	0.0020	ND
Chloroethane	0.921	mg/kg	0.0020	ND
Chloroform	0.921	mg/kg	0.0020	ND
Chloromethane	0.921	mg/kg	0.0020	ND
cis-1,2-Dichloroethene	0.921	mg/kg	0.0020	ND
cis-1,3-Dichloropropene	0.921	mg/kg	0.0020	ND
Cyclohexane	0.921	mg/kg	0.0020	ND
Dibromochloromethane	0.921	mg/kg	0.0020	ND
Dichlorodifluoromethane	0.921	mg/kg	0.0020	ND
Ethylbenzene	0.921	mg/kg	0.0010	ND
Isopropylbenzene	0.921	mg/kg	0.0010	ND
m&p-Xylenes	0.921	mg/kg	0.0015	ND
Methyl Acetate	0.921	mg/kg	0.0020	ND
Methylcyclohexane	0.921	mg/kg	0.0020	ND
Methylene chloride	0.921	mg/kg	0.0020	ND
Methyl-t-butyl ether	0.921	mg/kg	0.0010	ND
o-Xylene	0.921	mg/kg	0.0010	ND
Styrene	0.921	mg/kg	0.0020	ND
Tetrachloroethene	0.921	mg/kg	0.0020	ND
Toluene	0.921	mg/kg	0.0010	ND
trans-1,2-Dichloroethene	0.921	mg/kg	0.0020	ND
trans-1,3-Dichloropropene	0.921	mg/kg	0.0020	ND
Trichloroethene	0.921	mg/kg	0.0020	ND
Trichlorofluoromethane	0.921	mg/kg	0.0020	ND
Vinyl chloride	0.921	mg/kg	0.0020	ND
Xylenes (Total)	0.921	mg/kg	0.0010	ND

Volatile Organics + 10 (8260) Library Searches

Analyte	DF	Units	RT	Result
No Unknown Compounds Detected	0.921	mg/kg	NA	ND
TotalVolatileTic	0.921	mg/kg	NA	ND

Sample ID: SB-9 10-12
Lab#: AD38537-008
Matrix: Soil/Encore
Collection Date: 6/12/2023
Receipt Date: 6/13/2023

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**83**

Mercury (Soil/Waste) 7471B

Analyte	DF	Units	RL	Result
Mercury	1	mg/kg	0.10	ND

PAH Compounds 8270

Analyte	DF	Units	RL	Result
2-Methylnaphthalene	1	mg/kg	0.040	ND
Acenaphthene	1	mg/kg	0.040	ND
Acenaphthylene	1	mg/kg	0.040	ND
Anthracene	1	mg/kg	0.040	ND
Benzo[a]anthracene	1	mg/kg	0.040	ND
Benzo[a]pyrene	1	mg/kg	0.040	ND
Benzo[b]fluoranthene	1	mg/kg	0.040	ND
Benzo[g,h,i]perylene	1	mg/kg	0.040	ND
Benzo[k]fluoranthene	1	mg/kg	0.040	ND
Chrysene	1	mg/kg	0.040	ND
Dibenzo[a,h]anthracene	1	mg/kg	0.040	ND
Fluoranthene	1	mg/kg	0.040	ND
Fluorene	1	mg/kg	0.040	ND
Indeno[1,2,3-cd]pyrene	1	mg/kg	0.040	ND
Naphthalene	1	mg/kg	0.010	ND
Phenanthrene	1	mg/kg	0.040	ND
Pyrene	1	mg/kg	0.040	ND

PP Metals 6020B

Analyte	DF	Units	RL	Result
Antimony	1	mg/kg	0.96	ND
Arsenic	**1**	**mg/kg**	**0.24**	**3.7**
Beryllium	**1**	**mg/kg**	**0.24**	**0.24**
Cadmium	1	mg/kg	0.48	ND
Chromium	**1**	**mg/kg**	**0.48**	**7.0**
Copper	**1**	**mg/kg**	**2.4**	**18**
Lead	**1**	**mg/kg**	**0.48**	**11**
Nickel	**1**	**mg/kg**	**0.72**	**12**
Selenium	1	mg/kg	2.4	ND
Silver	1	mg/kg	0.24	ND
Thallium	1	mg/kg	0.48	ND
Zinc	**1**	**mg/kg**	**4.8**	**29**

Volatile Organics + 10 (8260)

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.73	mg/kg	0.0018	ND
1,1,2,2-Tetrachloroethane	0.73	mg/kg	0.0018	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.73	mg/kg	0.0018	ND
1,1,2-Trichloroethane	0.73	mg/kg	0.0018	ND
1,1-Dichloroethane	0.73	mg/kg	0.0018	ND
1,1-Dichloroethene	0.73	mg/kg	0.0018	ND
1,2,3-Trichlorobenzene	0.73	mg/kg	0.0018	ND
1,2,4-Trichlorobenzene	0.73	mg/kg	0.0018	ND
1,2-Dibromo-3-chloropropane	0.73	mg/kg	0.0018	ND
1,2-Dibromoethane	0.73	mg/kg	0.00057	ND
1,2-Dichlorobenzene	0.73	mg/kg	0.0018	ND
1,2-Dichloroethane	0.73	mg/kg	0.0018	ND

Sample ID: SB-9 10-12 **Collection Date:** 6/12/2023
Lab#: AD38537-008 **Receipt Date:** 6/13/2023
Matrix: Soil/Encore

1,2-Dichloropropane	0.73	mg/kg	0.0018	ND
1,3-Dichlorobenzene	0.73	mg/kg	0.0018	ND
1,4-Dichlorobenzene	0.73	mg/kg	0.0018	ND
1,4-Dioxane	0.73	mg/kg	0.088	ND
2-Butanone	0.73	mg/kg	0.0018	ND
2-Hexanone	0.73	mg/kg	0.0018	ND
4-Methyl-2-pentanone	0.73	mg/kg	0.0018	ND
Acetone	0.73	mg/kg	0.0088	ND
Benzene	0.73	mg/kg	0.00088	ND
Bromochloromethane	0.73	mg/kg	0.0018	ND
Bromodichloromethane	0.73	mg/kg	0.0018	ND
Bromoform	0.73	mg/kg	0.0018	ND
Bromomethane	0.73	mg/kg	0.0018	ND
Carbon disulfide	**0.73**	**mg/kg**	**0.0018**	**0.0029**
Carbon tetrachloride	0.73	mg/kg	0.0018	ND
Chlorobenzene	0.73	mg/kg	0.0018	ND
Chloroethane	0.73	mg/kg	0.0018	ND
Chloroform	0.73	mg/kg	0.0018	ND
Chloromethane	0.73	mg/kg	0.0018	ND
cis-1,2-Dichloroethene	0.73	mg/kg	0.0018	ND
cis-1,3-Dichloropropene	0.73	mg/kg	0.0018	ND
Cyclohexane	0.73	mg/kg	0.0018	ND
Dibromochloromethane	0.73	mg/kg	0.0018	ND
Dichlorodifluoromethane	0.73	mg/kg	0.0018	ND
Ethylbenzene	0.73	mg/kg	0.00088	ND
Isopropylbenzene	0.73	mg/kg	0.00088	ND
m&p-Xylenes	0.73	mg/kg	0.0013	ND
Methyl Acetate	0.73	mg/kg	0.0018	ND
Methylcyclohexane	0.73	mg/kg	0.0018	ND
Methylene chloride	**0.73**	**mg/kg**	**0.0018**	**0.0041**
Methyl-t-butyl ether	0.73	mg/kg	0.00088	ND
o-Xylene	0.73	mg/kg	0.00088	ND
Styrene	0.73	mg/kg	0.0018	ND
Tetrachloroethene	0.73	mg/kg	0.0018	ND
Toluene	0.73	mg/kg	0.00088	ND
trans-1,2-Dichloroethene	0.73	mg/kg	0.0018	ND
trans-1,3-Dichloropropene	0.73	mg/kg	0.0018	ND
Trichloroethene	0.73	mg/kg	0.0018	ND
Trichlorofluoromethane	0.73	mg/kg	0.0018	ND
Vinyl chloride	0.73	mg/kg	0.0018	ND
Xylenes (Total)	0.73	mg/kg	0.00088	ND

Volatile Organics + 10 (8260) Library Searches

Analyte	DF	Units	RT	Result
No Unknown Compounds Detected	0.73	mg/kg	NA	ND
TotalVolatileTic	0.73	mg/kg	NA	ND

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38537-001
Client Id: SB-1 10-14
Data File: 1M174866.D
Analysis Date: 06/14/23 15:43
Date Rec/Extracted: 06/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 6g
Final Vol: NA
Dilution: 0.833
Solids: 91

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0018	U	56-23-5	Carbon Tetrachloride	0.0018	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0018	U	108-90-7	Chlorobenzene	0.0018	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0018	U	75-00-3	Chloroethane	0.0018	U
79-00-5	1,1,2-Trichloroethane	0.0018	U	67-66-3	Chloroform	0.0018	U
75-34-3	1,1-Dichloroethane	0.0018	U	74-87-3	Chloromethane	0.0018	U
75-35-4	1,1-Dichloroethene	0.0018	U	156-59-2	cis-1,2-Dichloroethene	0.0018	U
87-61-6	1,2,3-Trichlorobenzene	0.0018	U	10061-01-5	cis-1,3-Dichloropropene	0.0018	U
120-82-1	1,2,4-Trichlorobenzene	0.0018	U	110-82-7	Cyclohexane	0.0018	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0018	U	124-48-1	Dibromochloromethane	0.0018	U
106-93-4	1,2-Dibromoethane	0.00060	U	75-71-8	Dichlorodifluoromethane	0.0018	U
95-50-1	1,2-Dichlorobenzene	0.0018	U	100-41-4	Ethylbenzene	0.00092	U
107-06-2	1,2-Dichloroethane	0.0018	U	98-82-8	Isopropylbenzene	0.00092	U
78-87-5	1,2-Dichloropropane	0.0018	U	79601-23-1	m&p-Xylenes	0.0013	U
541-73-1	1,3-Dichlorobenzene	0.0018	U	**79-20-9**	**Methyl Acetate**	**0.0018**	**0.0042**
106-46-7	1,4-Dichlorobenzene	0.0018	U	108-87-2	Methylcyclohexane	0.0018	U
123-91-1	1,4-Dioxane	0.092	U	**75-09-2**	**Methylene Chloride**	**0.0018**	**0.0062**
78-93-3	2-Butanone	0.0018	U	1634-04-4	Methyl-t-butyl ether	0.00092	U
591-78-6	2-Hexanone	0.0018	U	95-47-6	o-Xylene	0.00092	U
108-10-1	4-Methyl-2-Pentanone	0.0018	U	100-42-5	Styrene	0.0018	U
67-64-1	Acetone	0.0092	U	127-18-4	Tetrachloroethene	0.0018	U
71-43-2	Benzene	0.00092	U	108-88-3	Toluene	0.00092	U
74-97-5	Bromochloromethane	0.0018	U	156-60-5	trans-1,2-Dichloroethene	0.0018	U
75-27-4	Bromodichloromethane	0.0018	U	10061-02-6	trans-1,3-Dichloropropene	0.0018	U
75-25-2	Bromoform	0.0018	U	79-01-6	Trichloroethene	0.0018	U
74-83-9	Bromomethane	0.0018	U	75-69-4	Trichlorofluoromethane	0.0018	U
75-15-0	Carbon Disulfide	0.0018	U	75-01-4	Vinyl Chloride	0.0018	U
1330-20-7	Xylenes (Total)	0.00092	U				

Worksheet #: 696062

Total Target Concentration 0.01

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1e

ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AD38537-001	Matrix: Soil
Client Id: SB-1 10-14	Initial Vol: 6g
Data File: 1M174866.D	Final Vol: NA
Analysis Date: 06/14/23 15:43	Dilution: 0.833
Date Rec/Extracted: 06/13/23-NA	Solids: 91
	Method: EPA 8260D

Units: mg/Kg

	Cas #	Compound	RT	Conc
1		No Unknown Compounds Detected	0.00	0 J

Worksheet #: 696062

Total Tentatively Identified Concentration 0

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38537-002
Client Id: SB-3 0-5
Data File: 1M174836.D
Analysis Date: 06/14/23 05:04
Date Rec/Extracted: 06/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5.76g
Final Vol: NA
Dilution: 0.868
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	56-23-5	Carbon Tetrachloride	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	U	75-00-3	Chloroethane	0.0020	U
79-00-5	1,1,2-Trichloroethane	0.0020	U	67-66-3	Chloroform	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	74-87-3	Chloromethane	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	156-59-2	cis-1,2-Dichloroethene	0.0020	U
87-61-6	1,2,3-Trichlorobenzene	0.0020	U	10061-01-5	cis-1,3-Dichloropropene	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	U	110-82-7	Cyclohexane	0.0020	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
106-93-4	1,2-Dibromoethane	0.00063	U	75-71-8	Dichlorodifluoromethane	0.0020	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	100-41-4	Ethylbenzene	0.00098	U
107-06-2	1,2-Dichloroethane	0.0020	U	98-82-8	Isopropylbenzene	0.00098	U
78-87-5	1,2-Dichloropropane	0.0020	U	79601-23-1	m&p-Xylenes	0.0014	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	79-20-9	Methyl Acetate	0.0020	U
106-46-7	1,4-Dichlorobenzene	0.0020	U	108-87-2	Methylcyclohexane	0.0020	U
123-91-1	1,4-Dioxane	0.098	U	75-09-2	Methylene Chloride	0.0020	U
78-93-3	2-Butanone	0.0020	U	1634-04-4	Methyl-t-butyl ether	0.00098	U
591-78-6	2-Hexanone	0.0020	U	95-47-6	o-Xylene	0.00098	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	100-42-5	Styrene	0.0020	U
67-64-1	Acetone	0.0098	U	127-18-4	Tetrachloroethene	0.0020	U
71-43-2	Benzene	0.00098	U	108-88-3	Toluene	0.00098	U
74-97-5	Bromochloromethane	0.0020	U	156-60-5	trans-1,2-Dichloroethene	0.0020	U
75-27-4	Bromodichloromethane	0.0020	U	10061-02-6	trans-1,3-Dichloropropene	0.0020	U
75-25-2	Bromoform	0.0020	U	79-01-6	Trichloroethene	0.0020	U
74-83-9	Bromomethane	0.0020	U	75-69-4	Trichlorofluoromethane	0.0020	U
75-15-0	Carbon Disulfide	0.0020	U	75-01-4	Vinyl Chloride	0.0020	U
1330-20-7	Xylenes (Total)	0.00098	U				

Worksheet #: 696057

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1e

ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AD38537-002
Client Id: SB-3 0-5
Data File: 1M174836.D
Analysis Date: 06/14/23 05:04
Date Rec/Extracted: 06/13/23-NA

Matrix: Soil
Initial Vol: 5.76g
Final Vol: NA
Dilution: 0.868
Solids: 89
Method: EPA 8260D

Units: mg/Kg

	Cas #	Compound	RT	Conc
1		No Unknown Compounds Detected	0.00	0 J

Worksheet #: 696057

Total Tentatively Identified Concentration 0

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38537-003
Client Id: SB-4 10-12.5
Data File: 1M174837.D
Analysis Date: 06/14/23 05:25
Date Rec/Extracted: 06/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 7.04g
Final Vol: NA
Dilution: 0.710
Solids: 84

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0017	U	56-23-5	Carbon Tetrachloride	0.0017	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0017	U	108-90-7	Chlorobenzene	0.0017	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0017	U	75-00-3	Chloroethane	0.0017	U
79-00-5	1,1,2-Trichloroethane	0.0017	U	67-66-3	Chloroform	0.0017	U
75-34-3	1,1-Dichloroethane	0.0017	U	74-87-3	Chloromethane	0.0017	U
75-35-4	1,1-Dichloroethene	0.0017	U	156-59-2	cis-1,2-Dichloroethene	0.0017	U
87-61-6	1,2,3-Trichlorobenzene	0.0017	U	10061-01-5	cis-1,3-Dichloropropene	0.0017	U
120-82-1	1,2,4-Trichlorobenzene	0.0017	U	110-82-7	Cyclohexane	0.0017	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0017	U	124-48-1	Dibromochloromethane	0.0017	U
106-93-4	1,2-Dibromoethane	0.00055	U	75-71-8	Dichlorodifluoromethane	0.0017	U
95-50-1	1,2-Dichlorobenzene	0.0017	U	100-41-4	Ethylbenzene	0.00085	U
107-06-2	1,2-Dichloroethane	0.0017	U	98-82-8	Isopropylbenzene	0.00085	U
78-87-5	1,2-Dichloropropane	0.0017	U	79601-23-1	m&p-Xylenes	0.0012	U
541-73-1	1,3-Dichlorobenzene	0.0017	U	79-20-9	Methyl Acetate	0.0017	U
106-46-7	1,4-Dichlorobenzene	0.0017	U	108-87-2	Methylcyclohexane	0.0017	U
123-91-1	1,4-Dioxane	0.085	U	**75-09-2**	**Methylene Chloride**	**0.0017**	**0.0024**
78-93-3	**2-Butanone**	**0.0017**	**0.0072**	1634-04-4	Methyl-t-butyl ether	0.00085	U
591-78-6	2-Hexanone	0.0017	U	95-47-6	o-Xylene	0.00085	U
108-10-1	4-Methyl-2-Pentanone	0.0017	U	100-42-5	Styrene	0.0017	U
67-64-1	**Acetone**	**0.0085**	**0.035**	127-18-4	Tetrachloroethene	0.0017	U
71-43-2	Benzene	0.00085	U	108-88-3	Toluene	0.00085	U
74-97-5	Bromochloromethane	0.0017	U	156-60-5	trans-1,2-Dichloroethene	0.0017	U
75-27-4	Bromodichloromethane	0.0017	U	10061-02-6	trans-1,3-Dichloropropene	0.0017	U
75-25-2	Bromoform	0.0017	U	79-01-6	Trichloroethene	0.0017	U
74-83-9	Bromomethane	0.0017	U	75-69-4	Trichlorofluoromethane	0.0017	U
75-15-0	**Carbon Disulfide**	**0.0017**	**0.0019**	75-01-4	Vinyl Chloride	0.0017	U
1330-20-7	Xylenes (Total)	0.00085	U				

Worksheet #: 696057

Total Target Concentration 0.046

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1e

ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AD38537-003
Client Id: SB-4 10-12.5
Data File: 1M174837.D
Analysis Date: 06/14/23 05:25
Date Rec/Extracted: 06/13/23-NA

Matrix: Soil
Initial Vol: 7.04g
Final Vol: NA
Dilution: 0.710
Solids: 84
Method: EPA 8260D

Units: mg/Kg

	Cas #	Compound	RT	Conc
1		No Unknown Compounds Detected	0.00	0J

Worksheet #: 696057

Total Tentatively Identified Concentration 0

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38537-004
Client Id: SB-5 5-10
Data File: 1M174838.D
Analysis Date: 06/14/23 05:46
Date Rec/Extracted: 06/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5.18g
Final Vol: NA
Dilution: 0.965
Solids: 80

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0024	U	56-23-5	Carbon Tetrachloride	0.0024	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0024	U	108-90-7	Chlorobenzene	0.0024	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0024	U	75-00-3	Chloroethane	0.0024	U
79-00-5	1,1,2-Trichloroethane	0.0024	U	67-66-3	Chloroform	0.0024	U
75-34-3	1,1-Dichloroethane	0.0024	U	74-87-3	Chloromethane	0.0024	U
75-35-4	1,1-Dichloroethene	0.0024	U	156-59-2	cis-1,2-Dichloroethene	0.0024	U
87-61-6	1,2,3-Trichlorobenzene	0.0024	U	10061-01-5	cis-1,3-Dichloropropene	0.0024	U
120-82-1	1,2,4-Trichlorobenzene	0.0024	U	110-82-7	Cyclohexane	0.0024	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0024	U	124-48-1	Dibromochloromethane	0.0024	U
106-93-4	1,2-Dibromoethane	0.00078	U	75-71-8	Dichlorodifluoromethane	0.0024	U
95-50-1	1,2-Dichlorobenzene	0.0024	U	100-41-4	Ethylbenzene	0.0012	U
107-06-2	1,2-Dichloroethane	0.0024	U	98-82-8	Isopropylbenzene	0.0012	U
78-87-5	1,2-Dichloropropane	0.0024	U	79601-23-1	m&p-Xylenes	0.0018	U
541-73-1	1,3-Dichlorobenzene	0.0024	U	79-20-9	Methyl Acetate	0.0024	U
106-46-7	1,4-Dichlorobenzene	0.0024	U	108-87-2	Methylcyclohexane	0.0024	U
123-91-1	1,4-Dioxane	0.12	U	75-09-2	Methylene Chloride	0.0024	U
78-93-3	2-Butanone	0.0024	U	1634-04-4	Methyl-t-butyl ether	0.0012	U
591-78-6	2-Hexanone	0.0024	U	95-47-6	o-Xylene	0.0012	U
108-10-1	4-Methyl-2-Pentanone	0.0024	U	100-42-5	Styrene	0.0024	U
67-64-1	Acetone	0.012	U	127-18-4	Tetrachloroethene	0.0024	U
71-43-2	Benzene	0.0012	U	108-88-3	Toluene	0.0012	U
74-97-5	Bromochloromethane	0.0024	U	156-60-5	trans-1,2-Dichloroethene	0.0024	U
75-27-4	Bromodichloromethane	0.0024	U	10061-02-6	trans-1,3-Dichloropropene	0.0024	U
75-25-2	Bromoform	0.0024	U	79-01-6	Trichloroethene	0.0024	U
74-83-9	Bromomethane	0.0024	U	75-69-4	Trichlorofluoromethane	0.0024	U
75-15-0	Carbon Disulfide	0.0024	U	75-01-4	Vinyl Chloride	0.0024	U
1330-20-7	Xylenes (Total)	0.0012	U				

Worksheet #: 696057

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1e

ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AD38537-004
Client Id: SB-5 5-10
Data File: 1M174838.D
Analysis Date: 06/14/23 05:46
Date Rec/Extracted: 06/13/23-NA

Matrix: Soil
Initial Vol: 5.18g
Final Vol: NA
Dilution: 0.965
Solids: 80
Method: EPA 8260D

Units: mg/Kg

	Cas #	Compound	RT	Conc
1		No Unknown Compounds Detected	0.00	0 J

Worksheet #: 696057

Total Tentatively Identified Concentration 0

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38537-005
Client Id: SB-6 10-11
Data File: 1M174845.D
Analysis Date: 06/14/23 08:13
Date Rec/Extracted: 06/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 6.77g
Final Vol: NA
Dilution: 0.739
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0018	U	56-23-5	Carbon Tetrachloride	0.0018	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0018	U	108-90-7	Chlorobenzene	0.0018	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0018	U	75-00-3	Chloroethane	0.0018	U
79-00-5	1,1,2-Trichloroethane	0.0018	U	67-66-3	Chloroform	0.0018	U
75-34-3	1,1-Dichloroethane	0.0018	U	74-87-3	Chloromethane	0.0018	U
75-35-4	1,1-Dichloroethene	0.0018	U	156-59-2	cis-1,2-Dichloroethene	0.0018	U
87-61-6	1,2,3-Trichlorobenzene	0.0018	U	10061-01-5	cis-1,3-Dichloropropene	0.0018	U
120-82-1	1,2,4-Trichlorobenzene	0.0018	U	110-82-7	Cyclohexane	0.0018	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0018	U	124-48-1	Dibromochloromethane	0.0018	U
106-93-4	1,2-Dibromoethane	0.00058	U	75-71-8	Dichlorodifluoromethane	0.0018	U
95-50-1	1,2-Dichlorobenzene	0.0018	U	100-41-4	Ethylbenzene	0.00089	U
107-06-2	1,2-Dichloroethane	0.0018	U	98-82-8	Isopropylbenzene	0.00089	U
78-87-5	1,2-Dichloropropane	0.0018	U	79601-23-1	m&p-Xylenes	0.0013	U
541-73-1	1,3-Dichlorobenzene	0.0018	U	79-20-9	Methyl Acetate	0.0018	U
106-46-7	1,4-Dichlorobenzene	0.0018	U	108-87-2	Methylcyclohexane	0.0018	U
123-91-1	1,4-Dioxane	0.089	U	**75-09-2**	**Methylene Chloride**	**0.0018**	**0.0024**
78-93-3	**2-Butanone**	**0.0018**	**0.0049**	1634-04-4	Methyl-t-butyl ether	0.00089	U
591-78-6	2-Hexanone	0.0018	U	95-47-6	o-Xylene	0.00089	U
108-10-1	4-Methyl-2-Pentanone	0.0018	U	100-42-5	Styrene	0.0018	U
67-64-1	**Acetone**	**0.0089**	**0.023**	127-18-4	Tetrachloroethene	0.0018	U
71-43-2	Benzene	0.00089	U	108-88-3	Toluene	0.00089	U
74-97-5	Bromochloromethane	0.0018	U	156-60-5	trans-1,2-Dichloroethene	0.0018	U
75-27-4	Bromodichloromethane	0.0018	U	10061-02-6	trans-1,3-Dichloropropene	0.0018	U
75-25-2	Bromoform	0.0018	U	79-01-6	Trichloroethene	0.0018	U
74-83-9	Bromomethane	0.0018	U	75-69-4	Trichlorofluoromethane	0.0018	U
75-15-0	**Carbon Disulfide**	**0.0018**	**0.0084**	75-01-4	Vinyl Chloride	0.0018	U
1330-20-7	Xylenes (Total)	0.00089	U				

Worksheet #: 696057

Total Target Concentration 0.039

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1e

ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AD38537-005
Client Id: SB-6 10-11
Data File: 1M174845.D
Analysis Date: 06/14/23 08:13
Date Rec/Extracted: 06/13/23-NA

Matrix: Soil
Initial Vol: 6.77g
Final Vol: NA
Dilution: 0.739
Solids: 83
Method: EPA 8260D

Units: mg/Kg

	Cas #	Compound	RT	Conc
1	7146-60-3	Octane, 2,3-dimethyl-	7.34	0.050J
2	61142-69-6	Cyclohexane, 1-ethyl-2,4-dimethyl-	7.41	0.033J
3		unknown	7.63	0.044J
4		unknown	7.84	0.050J
5	13151-29-6	1-Decene, 4-methyl-	7.92	0.080J
6		unknown	7.98	0.080J
7	18127-14-5	Norbornane, 2-isobutyl-	8.09	0.055J
8		unknown	8.42	0.063J
9		unknown	8.79	0.038J
10		unknown	8.92	0.036J

Worksheet #: 696057

Total Tentatively Identified Concentration 0.53

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38537-006
Client Id: SB-7 0.5-1
Data File: 1M174839.D
Analysis Date: 06/14/23 06:07
Date Rec/Extracted: 06/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5.16g
Final Vol: NA
Dilution: 0.969
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0023	U	56-23-5	Carbon Tetrachloride	0.0023	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0023	U	108-90-7	Chlorobenzene	0.0023	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0023	U	75-00-3	Chloroethane	0.0023	U
79-00-5	1,1,2-Trichloroethane	0.0023	U	67-66-3	Chloroform	0.0023	U
75-34-3	1,1-Dichloroethane	0.0023	U	74-87-3	Chloromethane	0.0023	U
75-35-4	1,1-Dichloroethene	0.0023	U	156-59-2	cis-1,2-Dichloroethene	0.0023	U
87-61-6	1,2,3-Trichlorobenzene	0.0023	U	10061-01-5	cis-1,3-Dichloropropene	0.0023	U
120-82-1	1,2,4-Trichlorobenzene	0.0023	U	110-82-7	Cyclohexane	0.0023	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0023	U	124-48-1	Dibromochloromethane	0.0023	U
106-93-4	1,2-Dibromoethane	0.00076	U	75-71-8	Dichlorodifluoromethane	0.0023	U
95-50-1	1,2-Dichlorobenzene	0.0023	U	100-41-4	Ethylbenzene	0.0012	U
107-06-2	1,2-Dichloroethane	0.0023	U	98-82-8	Isopropylbenzene	0.0012	U
78-87-5	1,2-Dichloropropane	0.0023	U	79601-23-1	m&p-Xylenes	0.0017	U
541-73-1	1,3-Dichlorobenzene	0.0023	U	79-20-9	Methyl Acetate	0.0023	U
106-46-7	1,4-Dichlorobenzene	0.0023	U	108-87-2	Methylcyclohexane	0.0023	U
123-91-1	1,4-Dioxane	0.12	U	75-09-2	Methylene Chloride	0.0023	U
78-93-3	2-Butanone	0.0023	U	1634-04-4	Methyl-t-butyl ether	0.0012	U
591-78-6	2-Hexanone	0.0023	U	95-47-6	o-Xylene	0.0012	U
108-10-1	4-Methyl-2-Pentanone	0.0023	U	100-42-5	Styrene	0.0023	U
67-64-1	Acetone	0.012	U	127-18-4	Tetrachloroethene	0.0023	U
71-43-2	Benzene	0.0012	U	108-88-3	Toluene	0.0012	U
74-97-5	Bromochloromethane	0.0023	U	156-60-5	trans-1,2-Dichloroethene	0.0023	U
75-27-4	Bromodichloromethane	0.0023	U	10061-02-6	trans-1,3-Dichloropropene	0.0023	U
75-25-2	Bromoform	0.0023	U	79-01-6	Trichloroethene	0.0023	U
74-83-9	Bromomethane	0.0023	U	75-69-4	Trichlorofluoromethane	0.0023	U
75-15-0	Carbon Disulfide	0.0023	U	75-01-4	Vinyl Chloride	0.0023	U
1330-20-7	Xylenes (Total)	0.0012	U				

Worksheet #: 696057

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1e

ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AD38537-006
Client Id: SB-7 0.5-1
Data File: 1M174839.D
Analysis Date: 06/14/23 06:07
Date Rec/Extracted: 06/13/23-NA

Matrix: Soil
Initial Vol: 5.16g
Final Vol: NA
Dilution: 0.969
Solids: 83
Method: EPA 8260D

Units: mg/Kg

	Cas #	Compound	RT	Conc
1		No Unknown Compounds Detected	0.00	0J

Worksheet #: 696057

Total Tentatively Identified Concentration 0

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38537-007
Client Id: SB-8 0-2
Data File: 1M174840.D
Analysis Date: 06/14/23 06:28
Date Rec/Extracted: 06/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5.43g
Final Vol: NA
Dilution: 0.921
Solids: 91

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	56-23-5	Carbon Tetrachloride	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	U	75-00-3	Chloroethane	0.0020	U
79-00-5	1,1,2-Trichloroethane	0.0020	U	67-66-3	Chloroform	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	74-87-3	Chloromethane	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	156-59-2	cis-1,2-Dichloroethene	0.0020	U
87-61-6	1,2,3-Trichlorobenzene	0.0020	U	10061-01-5	cis-1,3-Dichloropropene	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	U	110-82-7	Cyclohexane	0.0020	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
106-93-4	1,2-Dibromoethane	0.00066	U	75-71-8	Dichlorodifluoromethane	0.0020	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	100-41-4	Ethylbenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.0020	U	98-82-8	Isopropylbenzene	0.0010	U
78-87-5	1,2-Dichloropropane	0.0020	U	79601-23-1	m&p-Xylenes	0.0015	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	79-20-9	Methyl Acetate	0.0020	U
106-46-7	1,4-Dichlorobenzene	0.0020	U	108-87-2	Methylcyclohexane	0.0020	U
123-91-1	1,4-Dioxane	0.10	U	75-09-2	Methylene Chloride	0.0020	U
78-93-3	2-Butanone	0.0020	U	1634-04-4	Methyl-t-butyl ether	0.0010	U
591-78-6	2-Hexanone	0.0020	U	95-47-6	o-Xylene	0.0010	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	100-42-5	Styrene	0.0020	U
67-64-1	Acetone	0.010	U	127-18-4	Tetrachloroethene	0.0020	U
71-43-2	Benzene	0.0010	U	108-88-3	Toluene	0.0010	U
74-97-5	Bromochloromethane	0.0020	U	156-60-5	trans-1,2-Dichloroethene	0.0020	U
75-27-4	Bromodichloromethane	0.0020	U	10061-02-6	trans-1,3-Dichloropropene	0.0020	U
75-25-2	Bromoform	0.0020	U	79-01-6	Trichloroethene	0.0020	U
74-83-9	Bromomethane	0.0020	U	75-69-4	Trichlorofluoromethane	0.0020	U
75-15-0	Carbon Disulfide	0.0020	U	75-01-4	Vinyl Chloride	0.0020	U
1330-20-7	Xylenes (Total)	0.0010	U				

Worksheet #: 696057 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1e

ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AD38537-007
Client Id: SB-8 0-2
Data File: 1M174840.D
Analysis Date: 06/14/23 06:28
Date Rec/Extracted: 06/13/23-NA

Matrix: Soil
Initial Vol: 5.43g
Final Vol: NA
Dilution: 0.921
Solids: 91
Method: EPA 8260D

Units: mg/Kg

	Cas #	Compound	RT	Conc
1		No Unknown Compounds Detected	0.00	0J

Worksheet #: 696057

Total Tentatively Identified Concentration 0

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38537-008
Client Id: SB-9 10-12
Data File: 1M174841.D
Analysis Date: 06/14/23 06:49
Date Rec/Extracted: 06/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 6.85g
Final Vol: NA
Dilution: 0.730
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0018	U	56-23-5	Carbon Tetrachloride	0.0018	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0018	U	108-90-7	Chlorobenzene	0.0018	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0018	U	75-00-3	Chloroethane	0.0018	U
79-00-5	1,1,2-Trichloroethane	0.0018	U	67-66-3	Chloroform	0.0018	U
75-34-3	1,1-Dichloroethane	0.0018	U	74-87-3	Chloromethane	0.0018	U
75-35-4	1,1-Dichloroethene	0.0018	U	156-59-2	cis-1,2-Dichloroethene	0.0018	U
87-61-6	1,2,3-Trichlorobenzene	0.0018	U	10061-01-5	cis-1,3-Dichloropropene	0.0018	U
120-82-1	1,2,4-Trichlorobenzene	0.0018	U	110-82-7	Cyclohexane	0.0018	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0018	U	124-48-1	Dibromochloromethane	0.0018	U
106-93-4	1,2-Dibromoethane	0.00057	U	75-71-8	Dichlorodifluoromethane	0.0018	U
95-50-1	1,2-Dichlorobenzene	0.0018	U	100-41-4	Ethylbenzene	0.00088	U
107-06-2	1,2-Dichloroethane	0.0018	U	98-82-8	Isopropylbenzene	0.00088	U
78-87-5	1,2-Dichloropropane	0.0018	U	79601-23-1	m&p-Xylenes	0.0013	U
541-73-1	1,3-Dichlorobenzene	0.0018	U	79-20-9	Methyl Acetate	0.0018	U
106-46-7	1,4-Dichlorobenzene	0.0018	U	108-87-2	Methylcyclohexane	0.0018	U
123-91-1	1,4-Dioxane	0.088	U	**75-09-2**	**Methylene Chloride**	**0.0018**	**0.0041**
78-93-3	2-Butanone	0.0018	U	1634-04-4	Methyl-t-butyl ether	0.00088	U
591-78-6	2-Hexanone	0.0018	U	95-47-6	o-Xylene	0.00088	U
108-10-1	4-Methyl-2-Pentanone	0.0018	U	100-42-5	Styrene	0.0018	U
67-64-1	Acetone	0.0088	U	127-18-4	Tetrachloroethene	0.0018	U
71-43-2	Benzene	0.00088	U	108-88-3	Toluene	0.00088	U
74-97-5	Bromochloromethane	0.0018	U	156-60-5	trans-1,2-Dichloroethene	0.0018	U
75-27-4	Bromodichloromethane	0.0018	U	10061-02-6	trans-1,3-Dichloropropene	0.0018	U
75-25-2	Bromoform	0.0018	U	79-01-6	Trichloroethene	0.0018	U
74-83-9	Bromomethane	0.0018	U	75-69-4	Trichlorofluoromethane	0.0018	U
75-15-0	**Carbon Disulfide**	**0.0018**	**0.0029**	75-01-4	Vinyl Chloride	0.0018	U
1330-20-7	Xylenes (Total)	0.00088	U				

Worksheet #: 696057

Total Target Concentration 0.007

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1e

ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AD38537-008	Matrix: Soil
Client Id: SB-9 10-12	Initial Vol: 6.85g
Data File: 1M174841.D	Final Vol: NA
Analysis Date: 06/14/23 06:49	Dilution: 0.730
Date Rec/Extracted: 06/13/23-NA	Solids: 83
	Method: EPA 8260D

Units: mg/Kg

	Cas #	Compound	RT	Conc
1		No Unknown Compounds Detected	0.00	0J

Worksheet #: 696057

Total Tentatively Identified Concentration 0

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38537-001
Client Id: SB-1 10-14
Data File: 9M122404.D
Analysis Date: 06/21/23 18:10
Date Rec/Extracted: 06/13/23-06/21/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 91

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	0.037	U	218-01-9	Chrysene	0.037	U
83-32-9	Acenaphthene	0.037	U	53-70-3	Dibenzo[a,h]anthracene	0.037	U
208-96-8	Acenaphthylene	0.037	U	206-44-0	Fluoranthene	0.037	U
120-12-7	Anthracene	0.037	U	86-73-7	Fluorene	0.037	U
56-55-3	Benzo[a]anthracene	0.037	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.037	U
50-32-8	Benzo[a]pyrene	0.037	U	91-20-3	Naphthalene	0.0092	U
205-99-2	Benzo[b]fluoranthene	0.037	U	85-01-8	Phenanthrene	0.037	U
191-24-2	Benzo[g,h,i]perylene	0.037	U	129-00-0	Pyrene	0.037	U
207-08-9	Benzo[k]fluoranthene	0.037	U				

Worksheet #: 696126

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38537-002
Client Id: SB-3 0-5
Data File: 7M129414.D
Analysis Date: 06/22/23 12:19
Date Rec/Extracted: 06/13/23-06/21/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	0.037	U	**218-01-9**	**Chrysene**	**0.037**	**0.071**
83-32-9	Acenaphthene	0.037	U	53-70-3	Dibenzo[a,h]anthracene	0.037	U
208-96-8	Acenaphthylene	0.037	U	**206-44-0**	**Fluoranthene**	**0.037**	**0.067**
120-12-7	Anthracene	0.037	U	86-73-7	Fluorene	0.037	U
56-55-3	**Benzo[a]anthracene**	**0.037**	**0.062**	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.037**	**0.050**
50-32-8	**Benzo[a]pyrene**	**0.037**	**0.083**	91-20-3	Naphthalene	0.0094	U
205-99-2	**Benzo[b]fluoranthene**	**0.037**	**0.10**	**85-01-8**	**Phenanthrene**	**0.037**	**0.041**
191-24-2	**Benzo[g,h,i]perylene**	**0.037**	**0.058**	**129-00-0**	**Pyrene**	**0.037**	**0.071**
207-08-9	Benzo[k]fluoranthene	0.037	U				

Worksheet #: 696126

Total Target Concentration 0.6

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38537-003
Client Id: SB-4 10-12.5
Data File: 9M122405.D
Analysis Date: 06/21/23 18:33
Date Rec/Extracted: 06/13/23-06/21/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 84

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	0.040	U	**218-01-9**	**Chrysene**	**0.040**	**0.044**
83-32-9	Acenaphthene	0.040	U	53-70-3	Dibenzo[a,h]anthracene	0.040	U
208-96-8	Acenaphthylene	0.040	U	**206-44-0**	**Fluoranthene**	**0.040**	**0.074**
120-12-7	Anthracene	0.040	U	86-73-7	Fluorene	0.040	U
56-55-3	**Benzo[a]anthracene**	**0.040**	**0.046**	193-39-5	Indeno[1,2,3-cd]pyrene	0.040	U
50-32-8	**Benzo[a]pyrene**	**0.040**	**0.045**	**91-20-3**	**Naphthalene**	**0.0099**	**0.013**
205-99-2	**Benzo[b]fluoranthene**	**0.040**	**0.048**	**85-01-8**	**Phenanthrene**	**0.040**	**0.095**
191-24-2	Benzo[g,h,i]perylene	0.040	U	**129-00-0**	**Pyrene**	**0.040**	**0.070**
207-08-9	Benzo[k]fluoranthene	0.040	U				

Worksheet #: 696126

Total Target Concentration 0.44

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38537-004
Client Id: SB-5 5-10
Data File: 7M129413.D
Analysis Date: 06/22/23 11:56
Date Rec/Extracted: 06/13/23-06/21/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 80

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	0.042	U	**218-01-9**	**Chrysene**	**0.042**	**1.3**
83-32-9	Acenaphthene	0.042	U	**53-70-3**	**Dibenzo[a,h]anthracene**	**0.042**	**0.24**
208-96-8	**Acenaphthylene**	**0.042**	**0.37**	**206-44-0**	**Fluoranthene**	**0.042**	**2.4**
120-12-7	**Anthracene**	**0.042**	**0.30**	**86-73-7**	**Fluorene**	**0.042**	**0.13**
56-55-3	**Benzo[a]anthracene**	**0.042**	**1.1**	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.042**	**0.75**
50-32-8	**Benzo[a]pyrene**	**0.042**	**1.3**	**91-20-3**	**Naphthalene**	**0.010**	**0.11**
205-99-2	**Benzo[b]fluoranthene**	**0.042**	**1.5**	**85-01-8**	**Phenanthrene**	**0.042**	**1.8**
191-24-2	**Benzo[g,h,i]perylene**	**0.042**	**0.95**	**129-00-0**	**Pyrene**	**0.042**	**2.5**
207-08-9	**Benzo[k]fluoranthene**	**0.042**	**0.42**				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38537-005
Client Id: SB-6 10-11
Data File: 9M122406.D
Analysis Date: 06/21/23 18:55
Date Rec/Extracted: 06/13/23-06/21/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	0.040	U	218-01-9	Chrysene	0.040	U
83-32-9	Acenaphthene	0.040	U	53-70-3	Dibenzo[a,h]anthracene	0.040	U
208-96-8	Acenaphthylene	0.040	U	206-44-0	Fluoranthene	0.040	U
120-12-7	Anthracene	0.040	U	86-73-7	Fluorene	0.040	U
56-55-3	Benzo[a]anthracene	0.040	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.040	U
50-32-8	Benzo[a]pyrene	0.040	U	91-20-3	Naphthalene	0.010	U
205-99-2	Benzo[b]fluoranthene	0.040	U	85-01-8	Phenanthrene	0.040	U
191-24-2	Benzo[g,h,i]perylene	0.040	U	129-00-0	Pyrene	0.040	U
207-08-9	Benzo[k]fluoranthene	0.040	U				

Worksheet #: 696126

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38537-006
Client Id: SB-7 0.5-1
Data File: 9M122407.D
Analysis Date: 06/21/23 19:18
Date Rec/Extracted: 06/13/23-06/21/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	0.040	U	**218-01-9**	**Chrysene**	**0.040**	**0.11**
83-32-9	Acenaphthene	0.040	U	53-70-3	Dibenzo[a,h]anthracene	0.040	U
208-96-8	Acenaphthylene	0.040	U	**206-44-0**	**Fluoranthene**	**0.040**	**0.069**
120-12-7	Anthracene	0.040	U	86-73-7	Fluorene	0.040	U
56-55-3	**Benzo[a]anthracene**	**0.040**	**0.086**	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.040**	**0.064**
50-32-8	**Benzo[a]pyrene**	**0.040**	**0.11**	91-20-3	Naphthalene	0.010	U
205-99-2	**Benzo[b]fluoranthene**	**0.040**	**0.13**	**85-01-8**	**Phenanthrene**	**0.040**	**0.061**
191-24-2	**Benzo[g,h,i]perylene**	**0.040**	**0.082**	**129-00-0**	**Pyrene**	**0.040**	**0.074**
207-08-9	Benzo[k]fluoranthene	0.040	U				

Worksheet #: 696126

Total Target Concentration 0.79

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38537-007(3X)
Client Id: SB-8 0-2
Data File: 7M129416.D
Analysis Date: 06/22/23 13:06
Date Rec/Extracted: 06/13/23-06/21/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 3
Solids: 91

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	0.11	U	**218-01-9**	**Chrysene**	**0.11**	**0.72**
83-32-9	Acenaphthene	0.11	U	**53-70-3**	**Dibenzo[a,h]anthracene**	**0.11**	**0.14**
208-96-8	Acenaphthylene	0.11	U	**206-44-0**	**Fluoranthene**	**0.11**	**1.1**
120-12-7	**Anthracene**	**0.11**	**0.18**	86-73-7	Fluorene	0.11	U
56-55-3	**Benzo[a]anthracene**	**0.11**	**0.66**	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.11**	**0.41**
50-32-8	**Benzo[a]pyrene**	**0.11**	**0.77**	**91-20-3**	**Naphthalene**	**0.027**	**0.029**
205-99-2	**Benzo[b]fluoranthene**	**0.11**	**0.89**	**85-01-8**	**Phenanthrene**	**0.11**	**0.69**
191-24-2	**Benzo[g,h,i]perylene**	**0.11**	**0.45**	**129-00-0**	**Pyrene**	**0.11**	**1.1**
207-08-9	**Benzo[k]fluoranthene**	**0.11**	**0.32**				

Worksheet #: 696126

Total Target Concentration 7.5

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38537-008
Client Id: SB-9 10-12
Data File: 9M122408.D
Analysis Date: 06/21/23 19:40
Date Rec/Extracted: 06/13/23-06/21/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	0.040	U	218-01-9	Chrysene	0.040	U
83-32-9	Acenaphthene	0.040	U	53-70-3	Dibenzo[a,h]anthracene	0.040	U
208-96-8	Acenaphthylene	0.040	U	206-44-0	Fluoranthene	0.040	U
120-12-7	Anthracene	0.040	U	86-73-7	Fluorene	0.040	U
56-55-3	Benzo[a]anthracene	0.040	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.040	U
50-32-8	Benzo[a]pyrene	0.040	U	91-20-3	Naphthalene	0.010	U
205-99-2	Benzo[b]fluoranthene	0.040	U	85-01-8	Phenanthrene	0.040	U
191-24-2	Benzo[g,h,i]perylene	0.040	U	129-00-0	Pyrene	0.040	U
207-08-9	Benzo[k]fluoranthene	0.040	U				

Worksheet #: 696126

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-001	% Solid:	91	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-1 10-14	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.88	ND	1	0.5	100	06/15/23	1078601	523ANEW	24	MS	MS3_7700SWA
7440-38-2	Arsenic	0.22	4.8	1	0.5	100	06/15/23	1078601	523ANEW	24	MS	MS3_7700SWA
7440-41-7	Beryllium	0.22	ND	1	0.5	100	06/15/23	1078601	523ANEW	24	MS	MS3_7700SWA
7440-43-9	Cadmium	0.44	ND	1	0.5	100	06/15/23	1078601	523ANEW	24	MS	MS3_7700SWA
7440-47-3	Chromium	0.44	7.8	1	0.5	100	06/15/23	1078601	523ANEW	24	MS	MS3_7700SWA
7440-50-8	Copper	2.2	28	1	0.5	100	06/15/23	1078601	523ANEW	24	MS	MS3_7700SWA
7439-92-1	Lead	0.44	3.4	1	0.5	100	06/15/23	1078601	523ANEW	24	MS	MS3_7700SWA
7440-02-0	Nickel	0.66	12	1	0.5	100	06/15/23	1078601	523ANEW	24	MS	MS3_7700SWA
7782-49-2	Selenium	2.2	ND	1	0.5	100	06/15/23	1078601	523ANEW	24	MS	MS3_7700SWA
7440-22-4	Silver	0.22	ND	1	0.5	100	06/15/23	1078601	523ANEW	24	MS	MS3_7700SWA
7440-28-0	Thallium	0.44	ND	1	0.5	100	06/15/23	1078601	523ANEW	24	MS	MS3_7700SWA
7440-66-6	Zinc	4.4	36	1	0.5	100	06/15/23	1078601	523ANEW	24	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-001	% Solid:	91	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-1 10-14	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.092	ND	1	0.15	25	06/15/23	107860	H29848S	13	CV	HGCV4A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-002	% Solid:	89	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-3 0-5	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.90	ND	1	0.5	100	06/15/23	107860	1523ANEW	46	MS	MS3_7700SWA
7440-38-2	Arsenic	0.22	4.9	1	0.5	100	06/15/23	107860	1523ANEW	46	MS	MS3_7700SWA
7440-41-7	Beryllium	0.22	0.23	1	0.5	100	06/15/23	107860	1523ANEW	46	MS	MS3_7700SWA
7440-43-9	Cadmium	0.45	ND	1	0.5	100	06/15/23	107860	1523ANEW	46	MS	MS3_7700SWA
7440-47-3	Chromium	0.45	6.2	1	0.5	100	06/15/23	107860	1523ANEW	46	MS	MS3_7700SWA
7440-50-8	Copper	2.2	18	1	0.5	100	06/15/23	107860	1523ANEW	46	MS	MS3_7700SWA
7439-92-1	Lead	0.45	35	1	0.5	100	06/15/23	107860	1523ANEW	46	MS	MS3_7700SWA
7440-02-0	Nickel	0.67	8.8	1	0.5	100	06/15/23	107860	1523ANEW	46	MS	MS3_7700SWA
7782-49-2	Selenium	2.2	ND	1	0.5	100	06/15/23	107860	1523ANEW	46	MS	MS3_7700SWA
7440-22-4	Silver	0.22	ND	1	0.5	100	06/15/23	107860	1523ANEW	46	MS	MS3_7700SWA
7440-28-0	Thallium	0.45	ND	1	0.5	100	06/15/23	107860	1523ANEW	46	MS	MS3_7700SWA
7440-66-6	Zinc	4.5	63	1	0.5	100	06/15/23	107860	1523ANEW	46	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-002	% Solid:	89	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-3 0-5	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.094	0.19	1	0.15	25	06/15/23	107860	H29848S	23	CV	HGCV4A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-003	% Solid:	84	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-4 10-12.5	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.95	ND	1	0.5	100	06/15/23	1078601	523ANEW	47	MS	MS3_7700SWA
7440-38-2	Arsenic	0.24	3.3	1	0.5	100	06/15/23	1078601	523ANEW	47	MS	MS3_7700SWA
7440-41-7	Beryllium	0.24	0.28	1	0.5	100	06/15/23	1078601	523ANEW	47	MS	MS3_7700SWA
7440-43-9	Cadmium	0.48	ND	1	0.5	100	06/15/23	1078601	523ANEW	47	MS	MS3_7700SWA
7440-47-3	Chromium	0.48	7.3	1	0.5	100	06/15/23	1078601	523ANEW	47	MS	MS3_7700SWA
7440-50-8	Copper	2.4	17	1	0.5	100	06/15/23	1078601	523ANEW	47	MS	MS3_7700SWA
7439-92-1	Lead	0.48	6.3	1	0.5	100	06/15/23	1078601	523ANEW	47	MS	MS3_7700SWA
7440-02-0	Nickel	0.71	9.4	1	0.5	100	06/15/23	1078601	523ANEW	47	MS	MS3_7700SWA
7782-49-2	Selenium	2.4	ND	1	0.5	100	06/15/23	1078601	523ANEW	47	MS	MS3_7700SWA
7440-22-4	Silver	0.24	ND	1	0.5	100	06/15/23	1078601	523ANEW	47	MS	MS3_7700SWA
7440-28-0	Thallium	0.48	ND	1	0.5	100	06/15/23	1078601	523ANEW	47	MS	MS3_7700SWA
7440-66-6	Zinc	4.8	29	1	0.5	100	06/15/23	1078601	523ANEW	47	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-003	% Solid:	84	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-4 10-12.5	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.099	ND	1	0.15	25	06/15/23	107860	H29848S	24	CV	HGCV4A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-004	% Solid:	80	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-5 5-10	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	1.0	ND	1	0.5	100	06/15/23	1078601	523ANEW	48	MS	MS3_7700SWA
7440-38-2	Arsenic	0.25	11	1	0.5	100	06/15/23	1078601	523ANEW	48	MS	MS3_7700SWA
7440-41-7	Beryllium	0.25	0.38	1	0.5	100	06/15/23	1078601	523ANEW	48	MS	MS3_7700SWA
7440-43-9	Cadmium	0.50	ND	1	0.5	100	06/15/23	1078601	523ANEW	48	MS	MS3_7700SWA
7440-47-3	Chromium	0.50	5.8	1	0.5	100	06/15/23	1078601	523ANEW	48	MS	MS3_7700SWA
7440-50-8	Copper	2.5	36	1	0.5	100	06/15/23	1078601	523ANEW	48	MS	MS3_7700SWA
7439-92-1	Lead	0.50	130	1	0.5	100	06/15/23	1078601	523ANEW	48	MS	MS3_7700SWA
7440-02-0	Nickel	0.75	9.7	1	0.5	100	06/15/23	1078601	523ANEW	48	MS	MS3_7700SWA
7782-49-2	Selenium	2.5	ND	1	0.5	100	06/15/23	1078601	523ANEW	48	MS	MS3_7700SWA
7440-22-4	Silver	0.25	ND	1	0.5	100	06/15/23	1078601	523ANEW	48	MS	MS3_7700SWA
7440-28-0	Thallium	0.50	ND	1	0.5	100	06/15/23	1078601	523ANEW	48	MS	MS3_7700SWA
7440-66-6	Zinc	5.0	85	1	0.5	100	06/15/23	1078601	523ANEW	48	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-004	% Solid:	80	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-5 5-10	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.10	0.13	1	0.15	25	06/15/23	107860	H29848S	25	CV	HGCV4A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-005	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-6 10-11	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.96	ND	1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA
7440-38-2	Arsenic	0.24	4.6	1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA
7440-41-7	Beryllium	0.24	0.32	1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA
7440-43-9	Cadmium	0.48	ND	1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA
7440-47-3	Chromium	0.48	8.3	1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA
7440-50-8	Copper	2.4	20	1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA
7439-92-1	Lead	0.48	5.5	1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA
7440-02-0	Nickel	0.72	12	1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA
7782-49-2	Selenium	2.4	2.6	1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA
7440-22-4	Silver	0.24	ND	1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA
7440-28-0	Thallium	0.48	ND	1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA
7440-66-6	Zinc	4.8	34	1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-005	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-6 10-11	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.10	ND	1	0.15	25	06/15/23	107860	H29848S	26	CV	HGCV4A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-006	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-7 0.5-1	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.96	ND	1	0.5	100	06/15/23	1078601	523ANEW	50	MS	MS3_7700SWA
7440-38-2	Arsenic	0.24	9.9	1	0.5	100	06/15/23	1078601	523ANEW	50	MS	MS3_7700SWA
7440-41-7	Beryllium	0.24	0.74	1	0.5	100	06/15/23	1078601	523ANEW	50	MS	MS3_7700SWA
7440-43-9	Cadmium	0.48	ND	1	0.5	100	06/15/23	1078601	523ANEW	50	MS	MS3_7700SWA
7440-47-3	Chromium	0.48	9.2	1	0.5	100	06/15/23	1078601	523ANEW	50	MS	MS3_7700SWA
7440-50-8	Copper	2.4	53	1	0.5	100	06/15/23	1078601	523ANEW	50	MS	MS3_7700SWA
7439-92-1	Lead	0.48	42	1	0.5	100	06/15/23	1078601	523ANEW	50	MS	MS3_7700SWA
7440-02-0	Nickel	0.72	14	1	0.5	100	06/15/23	1078601	523ANEW	50	MS	MS3_7700SWA
7782-49-2	Selenium	2.4	2.6	1	0.5	100	06/15/23	1078601	523ANEW	50	MS	MS3_7700SWA
7440-22-4	Silver	0.24	ND	1	0.5	100	06/15/23	1078601	523ANEW	50	MS	MS3_7700SWA
7440-28-0	Thallium	0.48	ND	1	0.5	100	06/15/23	1078601	523ANEW	50	MS	MS3_7700SWA
7440-66-6	Zinc	4.8	59	1	0.5	100	06/15/23	1078601	523ANEW	50	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-006	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-7 0.5-1	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.10	0.12	1	0.15	25	06/15/23	107860	H29848S	27	CV	HGCV4A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-007	% Solid:	91	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-8 0-2	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.88	ND	1	0.5	100	06/15/23	1078601	523ANEW	51	MS	MS3_7700SWA
7440-38-2	Arsenic	0.22	6.5	1	0.5	100	06/15/23	1078601	523ANEW	51	MS	MS3_7700SWA
7440-41-7	Beryllium	0.22	0.30	1	0.5	100	06/15/23	1078601	523ANEW	51	MS	MS3_7700SWA
7440-43-9	Cadmium	0.44	ND	1	0.5	100	06/15/23	1078601	523ANEW	51	MS	MS3_7700SWA
7440-47-3	Chromium	0.44	8.8	1	0.5	100	06/15/23	1078601	523ANEW	51	MS	MS3_7700SWA
7440-50-8	Copper	2.2	35	1	0.5	100	06/15/23	1078601	523ANEW	51	MS	MS3_7700SWA
7439-92-1	Lead	0.44	90	1	0.5	100	06/15/23	1078601	523ANEW	51	MS	MS3_7700SWA
7440-02-0	Nickel	0.66	12	1	0.5	100	06/15/23	1078601	523ANEW	51	MS	MS3_7700SWA
7782-49-2	Selenium	2.2	ND	1	0.5	100	06/15/23	1078601	523ANEW	51	MS	MS3_7700SWA
7440-22-4	Silver	0.22	ND	1	0.5	100	06/15/23	1078601	523ANEW	51	MS	MS3_7700SWA
7440-28-0	Thallium	0.44	ND	1	0.5	100	06/15/23	1078601	523ANEW	51	MS	MS3_7700SWA
7440-66-6	Zinc	4.4	74	1	0.5	100	06/15/23	1078601	523ANEW	51	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-007	% Solid:	91	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-8 0-2	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.092	0.29	1	0.15	25	06/15/23	107860	H29848S	28	CV	HGCV4A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-008	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-9 10-12	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.96	ND	1	0.5	100	06/15/23	1078601	523ANEW	52	MS	MS3_7700SWA
7440-38-2	Arsenic	0.24	3.7	1	0.5	100	06/15/23	1078601	523ANEW	52	MS	MS3_7700SWA
7440-41-7	Beryllium	0.24	0.24	1	0.5	100	06/15/23	1078601	523ANEW	52	MS	MS3_7700SWA
7440-43-9	Cadmium	0.48	ND	1	0.5	100	06/15/23	1078601	523ANEW	52	MS	MS3_7700SWA
7440-47-3	Chromium	0.48	7.0	1	0.5	100	06/15/23	1078601	523ANEW	52	MS	MS3_7700SWA
7440-50-8	Copper	2.4	18	1	0.5	100	06/15/23	1078601	523ANEW	52	MS	MS3_7700SWA
7439-92-1	Lead	0.48	11	1	0.5	100	06/15/23	1078601	523ANEW	52	MS	MS3_7700SWA
7440-02-0	Nickel	0.72	12	1	0.5	100	06/15/23	1078601	523ANEW	52	MS	MS3_7700SWA
7782-49-2	Selenium	2.4	ND	1	0.5	100	06/15/23	1078601	523ANEW	52	MS	MS3_7700SWA
7440-22-4	Silver	0.24	ND	1	0.5	100	06/15/23	1078601	523ANEW	52	MS	MS3_7700SWA
7440-28-0	Thallium	0.48	ND	1	0.5	100	06/15/23	1078601	523ANEW	52	MS	MS3_7700SWA
7440-66-6	Zinc	4.8	29	1	0.5	100	06/15/23	1078601	523ANEW	52	MS	MS3_7700SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-008	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-9 10-12	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.10	ND	1	0.15	25	06/15/23	107860	H29848S	29	CV	HGCV4A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Chain of Custody Forms

3061310 0064

Hampton-Clarke, Inc. (WBE/DBE/SBE)
175 US Highway 46 and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke WBE/DBE/SBE 800-426-9992
A Women-Owned, Disadvantaged, Small Business Enterprise

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 3061310

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%) *	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%) *	Reduced:	EnviroData
3 Business Days (50%) *	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%) *	[ ] PA [ ] Other	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[ ] NYDEC
8 Business Days (Stand.)	NY ASP CatA	[ ] Region 2 or 5
Other:		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: HRP Associates
Address: 1 Fairchild Square, Suite 110
1b) Email/Cell/Fax/Ph: 518-877-7101
1c) Send Invoice to: Mark.Wright@hrpassociates.com
1d) Send Report to: Same

Project Information

2a) Project: 510-514 W. Liberty St
2b) Project Mgr: Mark.Wright@hrpassociates.com
2c) Project Location (City/State): Rome, NY
2d) Quote/PO # (If Applicable):

FOR LAB USE ONLY

Batch # AD38537

===> Check If Contingent ===>

Matrix Codes
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis *(specify methods & parameter lists)*

<=== Check If Contingent <===

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	TCL VOCs + 10	PAHs	PP Metals	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
001	SB-1, 10-14		6-12	1145		X	X	X	X	2		3						
	~~SB-2, 0-1~~ (DW)			~~1225~~														
002	SB-3, 0-5		6-12	1251		X	X	X	X	2		3						
003	SB-4, 10-12.5			1338		X	X	X	X	2		3						
004	SB-5, 5-10			1407		X	X	X	X	2		3						
005	SB-6, 10-11			1430		X	X	X		1		3						
006	SB-7, 0.5-1			1500		X	X	X	X	2		3						
007	SB-8, 0-2			1540		X	X	X	X	2		3						
008	SB-9, 10-12			1610		X	X	X	X	2		3						

10) Relinquished by:	Accepted by:	Date	Time
Patrick Montuori	FEDEX	6-12-23	1800
FEDEX	[signature]	6/13/23	11:30

11) Sampler (print name): Patrick Montuori Date: 6-12-23

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 2.7

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

CONDITION UPON RECEIPT

Batch Number AD38537 Entered By: maxwell

Date Entered 6/13/2023 11:55:00 AM

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	Yes	Are the COC seals intact?
4	T-461	<--- Thermometer ID. Please specify the Temperature inside the container (in degC). 2.7
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	Yes	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	Yes	Do the contents match the COC? If no, specify
10	Yes	Is there enough sample sent for the analyses listed on the COC? If no, specify:
11	Yes	Are samples preserved correctly?
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	NA	Other comments ...Specify (TB date, sample matrix, any missing info, etc.)
14	NA	Corrective actions (Specify item number and corrective action taken).
15	NA	Were any samples for ortho-phosphate or dissolved ferrous iron field filtered?

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD38537-001	06/13/23 11:30	MAXW	0	M	Received
AD38537-001	06/13/23 11:55	MAXW	0	M	Login
AD38537-001	06/13/23 12:31	R31	1	A	NONE
AD38537-001	06/13/23 21:39	WP	1	A	VOA
AD38537-001	06/14/23 00:43	R31	1	A	NONE
AD38537-001	06/13/23 12:32	F19	2	A	NONE
AD38537-001	06/13/23 21:41	WP	2	A	VOA
AD38537-001	06/13/23 12:32	F19	3	A	NONE
AD38537-001	06/14/23 13:36	SG	3	A	VOA
AD38537-001	06/13/23 12:17	R12	4	A	NONE
AD38537-001	06/13/23 22:49	R12	4	A	NONE
AD38537-001	06/13/23 22:49	PA	4	A	mx
AD38537-001	06/14/23 08:39	KW	4	A	SOLIDS
AD38537-001	06/21/23 08:21	PP	4	A	S-BNA
AD38537-001	06/21/23 08:49	R12	4	A	NONE
AD38537-001	06/13/23 12:17	R12	5	A	NONE
AD38537-002	06/13/23 11:30	MAXW	0	M	Received
AD38537-002	06/13/23 11:55	MAXW	0	M	Login
AD38537-002	06/13/23 12:31	R31	1	A	NONE
AD38537-002	06/13/23 21:39	WP	1	A	VOA
AD38537-002	06/14/23 00:43	R31	1	A	NONE
AD38537-002	06/13/23 12:32	F19	2	A	NONE
AD38537-002	06/13/23 21:41	WP	2	A	VOA
AD38537-002	06/13/23 12:32	F19	3	A	NONE
AD38537-002	06/13/23 12:17	R12	4	A	NONE
AD38537-002	06/13/23 22:49	PA	4	A	mx
AD38537-002	06/13/23 22:49	R12	4	A	NONE
AD38537-002	06/14/23 08:39	KW	4	A	SOLIDS
AD38537-002	06/21/23 08:21	PP	4	A	S-BNA
AD38537-002	06/21/23 08:49	R12	4	A	NONE
AD38537-002	06/13/23 12:17	R12	5	A	NONE
AD38537-003	06/13/23 11:30	MAXW	0	M	Received
AD38537-003	06/13/23 11:55	MAXW	0	M	Login
AD38537-003	06/13/23 12:31	R31	1	A	NONE
AD38537-003	06/13/23 21:39	WP	1	A	VOA
AD38537-003	06/14/23 00:43	R31	1	A	NONE
AD38537-003	06/13/23 12:32	F19	2	A	NONE
AD38537-003	06/13/23 21:41	WP	2	A	VOA
AD38537-003	06/13/23 12:32	F19	3	A	NONE
AD38537-003	06/13/23 12:17	R12	4	A	NONE
AD38537-003	06/13/23 22:49	R12	4	A	NONE
AD38537-003	06/13/23 22:49	PA	4	A	mx
AD38537-003	06/14/23 08:39	KW	4	A	SOLIDS
AD38537-003	06/21/23 08:21	PP	4	A	S-BNA
AD38537-003	06/21/23 08:49	R12	4	A	NONE
AD38537-003	06/13/23 12:17	R12	5	A	NONE
AD38537-004	06/13/23 11:30	MAXW	0	M	Received
AD38537-004	06/13/23 11:55	MAXW	0	M	Login
AD38537-004	06/13/23 12:31	R31	1	A	NONE
AD38537-004	06/13/23 21:39	WP	1	A	VOA
AD38537-004	06/14/23 00:43	R31	1	A	NONE
AD38537-004	06/13/23 12:32	F19	2	A	NONE
AD38537-004	06/13/23 21:41	WP	2	A	VOA
AD38537-004	06/13/23 12:32	F19	3	A	NONE
AD38537-004	06/13/23 12:17	R12	4	A	NONE
AD38537-004	06/13/23 22:49	PA	4	A	mx
AD38537-004	06/13/23 22:49	R12	4	A	NONE
AD38537-004	06/14/23 08:39	KW	4	A	SOLIDS
AD38537-004	06/21/23 08:21	PP	4	A	S-BNA
AD38537-004	06/21/23 08:49	R12	4	A	NONE
AD38537-004	06/13/23 12:17	R12	5	A	NONE
AD38537-005	06/13/23 11:30	MAXW	0	M	Received
AD38537-005	06/13/23 11:55	MAXW	0	M	Login
AD38537-005	06/13/23 12:31	R31	1	A	NONE
AD38537-005	06/13/23 21:39	WP	1	A	VOA
AD38537-005	06/14/23 00:43	R31	1	A	NONE
AD38537-005	06/13/23 12:32	F19	2	A	NONE
AD38537-005	06/13/23 21:41	WP	2	A	VOA
AD38537-005	06/13/23 12:32	F19	3	A	NONE
AD38537-005	06/13/23 12:17	R12	4	A	NONE
AD38537-005	06/13/23 22:49	PA	4	A	mx
AD38537-005	06/13/23 22:49	R12	4	A	NONE
AD38537-005	06/14/23 08:39	KW	4	A	SOLIDS
AD38537-005	06/21/23 08:21	PP	4	A	S-BNA
AD38537-005	06/21/23 08:49	R12	4	A	NONE

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD38537-006	06/13/23 11:30	MAXW	0	M	Received
AD38537-006	06/13/23 11:55	MAXW	0	M	Login
AD38537-006	06/13/23 12:31	R31	1	A	NONE
AD38537-006	06/13/23 21:39	WP	1	A	VOA
AD38537-006	06/14/23 00:43	R31	1	A	NONE
AD38537-006	06/13/23 12:32	F19	2	A	NONE
AD38537-006	06/13/23 21:41	WP	2	A	VOA
AD38537-006	06/13/23 12:32	F19	3	A	NONE
AD38537-006	06/13/23 12:17	R12	4	A	NONE
AD38537-006	06/13/23 22:49	R12	4	A	NONE
AD38537-006	06/13/23 22:49	PA	4	A	mx
AD38537-006	06/14/23 08:39	KW	4	A	SOLIDS
AD38537-006	06/21/23 08:21	PP	4	A	S-BNA
AD38537-006	06/21/23 08:49	R12	4	A	NONE
AD38537-006	06/13/23 12:17	R12	5	A	NONE
AD38537-007	06/13/23 11:30	MAXW	0	M	Received
AD38537-007	06/13/23 11:55	MAXW	0	M	Login
AD38537-007	06/13/23 12:31	R31	1	A	NONE
AD38537-007	06/13/23 21:39	WP	1	A	VOA
AD38537-007	06/14/23 00:43	R31	1	A	NONE
AD38537-007	06/13/23 12:32	F19	2	A	NONE
AD38537-007	06/13/23 21:41	WP	2	A	VOA
AD38537-007	06/13/23 12:32	F19	3	A	NONE
AD38537-007	06/13/23 12:17	R12	4	A	NONE
AD38537-007	06/13/23 22:49	R12	4	A	NONE
AD38537-007	06/13/23 22:49	PA	4	A	mx
AD38537-007	06/14/23 08:39	KW	4	A	SOLIDS
AD38537-007	06/21/23 08:21	PP	4	A	S-BNA
AD38537-007	06/21/23 08:49	R12	4	A	NONE
AD38537-007	06/13/23 12:17	R12	5	A	NONE
AD38537-008	06/13/23 11:30	MAXW	0	M	Received
AD38537-008	06/13/23 11:55	MAXW	0	M	Login
AD38537-008	06/13/23 12:32	F19	1	A	NONE
AD38537-008	06/13/23 21:41	WP	1	A	VOA
AD38537-008	06/13/23 12:31	R31	2	A	NONE
AD38537-008	06/13/23 21:39	WP	2	A	VOA
AD38537-008	06/14/23 00:43	R31	2	A	NONE
AD38537-008	06/13/23 12:32	F19	3	A	NONE
AD38537-008	06/13/23 12:17	R12	4	A	NONE
AD38537-008	06/13/23 22:49	PA	4	A	mx
AD38537-008	06/13/23 22:49	R12	4	A	NONE
AD38537-008	06/14/23 08:39	KW	4	A	SOLIDS
AD38537-008	06/21/23 08:21	PP	4	A	S-BNA
AD38537-008	06/21/23 08:49	R12	4	A	NONE
AD38537-008	06/13/23 12:17	R12	5	A	NONE

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

GC/MS Volatile Data

GC/MS Volatile Data
QC Summary

FORM2

Surrogate Recovery

Method: EPA 8260D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
1M174821.D	DAILY BLANK	S	06/13/23 23:51	1		105	92	105	108		
1M174856.D	DAILY BLANK	S	06/14/23 12:14	1		105	94	89	107		
1M174866.D	AD38537-001	S	06/14/23 15:43	1		109	96	104	115		
1M174836.D	AD38537-002	S	06/14/23 05:04	1		108	86	110	133		
1M174837.D	AD38537-003	S	06/14/23 05:25	1		110	91	104	123		
1M174838.D	AD38537-004	S	06/14/23 05:46	1		111	89	109	128		
1M174845.D	AD38537-005	S	06/14/23 08:13	1		105	87	102	121		
1M174839.D	AD38537-006	S	06/14/23 06:07	1		114	91	117	136		
1M174840.D	AD38537-007	S	06/14/23 06:28	1		112	88	117	138		
1M174841.D	AD38537-008	S	06/14/23 06:49	1		108	87	101	116		
1M174824.D	MBS109403	S	06/14/23 00:53	1		143	122	101	102		
1M174825.D	AD38487-003(MS)	S	06/14/23 01:14	1		106	98	102	107		
1M174826.D	AD38487-003(MSD)	S	06/14/23 01:35	1		105	95	102	105		
1M174828.D	AD38487-003	S	06/14/23 02:17	1		108	84	99	115		
1M174859.D	MBS109413	S	06/14/23 13:17	1		104	85	97	109		
1M174860.D	AD38501-004(MS)	S	06/14/23 13:38	1		109	92	101	98		
1M174861.D	AD38501-004(MSD)	S	06/14/23 13:59	1		109	92	101	99		
1M174862.D	AD38501-004	S	06/14/23 14:20	1		106	94	101	105		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8260D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	48-156
S2=1,2-Dichloroethane-d4	30	56-154
S3=Toluene-d8	30	48-145
S4=Bromofluorobenzene	30	46-151

Form3
Recovery Data Laboratory Limits
QC Batch: MBS109403

	Data File	Sample ID:	Analysis Date
Spike or Dup:	1M174824.D	MBS109403	6/14/2023 12:53:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	35.0514	0	50	70	10	168
Dichlorodifluoromethane	1	35.9838	0	50	72	10	150
Chloromethane	1	36.9793	0	50	74	12	150
Bromomethane	1	53.4463	0	50	107	23	136
Vinyl Chloride	1	48.6444	0	50	97	21	153
Chloroethane	1	52.5826	0	50	105	33	147
Trichlorofluoromethane	1	72.394	0	50	145	29	156
Ethyl ether	1	38.4841	0	50	77	10	141
Furan	1	38.1456	0	50	76	22	152
1,1,2-Trichloro-1,2,2-trifluoroethane	1	88.3018	0	50	177*	32	149
Methylene Chloride	1	56.8338	0	50	114	35	147
Acrolein	1	192.0439	0	200	96	10	149
Acrylonitrile	1	35.8144	0	50	72	20	130
Iodomethane	1	187.9075	0	50	376*	10	152
Acetone	1	187.3789	0	200	94	22	222
Carbon Disulfide	1	58.0546	0	50	116	18	135
t-Butyl Alcohol	1	196.8442	0	200	98	38	178
n-Hexane	1	53.9905	0	50	108	11	154
Di-isopropyl-ether	1	41.2736	0	50	83	38	150
1,1-Dichloroethene	1	60.163	0	50	120	31	165
Methyl Acetate	1	36.0598	0	50	72	10	237
Methyl-t-butyl ether	1	56.1501	0	50	112	40	151
1,1-Dichloroethane	1	50.3263	0	50	101	41	149
trans-1,2-Dichloroethene	1	69.3857	0	50	139	33	150
Ethyl-t-butyl ether	1	45.3671	0	50	91	22	184
cis-1,2-Dichloroethene	1	48.1245	0	50	96	33	146
Bromochloromethane	1	39.3491	0	50	79	38	143
2,2-Dichloropropane	1	66.9192	0	50	134	38	161
Ethyl acetate	1	38.2905	0	50	77	10	130
1,4-Dioxane	1	2008.078	0	2500	80	35	151
1,1-Dichloropropene	1	66.6835	0	50	133	34	149
Chloroform	1	58.8141	0	50	118	41	145
Cyclohexane	1	53.3718	0	50	107	25	148
1,2-Dichloroethane	1	43.9539	0	50	88	37	143
2-Butanone	1	35.7166	0	50	71	21	163
1,1,1-Trichloroethane	1	72.9092	0	50	146	38	149
Carbon Tetrachloride	1	78.4562	0	50	157*	33	150
Vinyl Acetate	1	41.2889	0	50	83	10	112
Bromodichloromethane	1	43.6581	0	50	87	36	146
Methylcyclohexane	1	54.7072	0	50	109	15	147
Dibromomethane	1	48.2712	0	50	97	32	144
1,2-Dichloropropane	1	36.6913	0	50	73	40	144
Trichloroethene	1	51.5073	0	50	103	24	161
Benzene	1	60.992	0	50	122	38	146
tert-Amyl methyl ether	1	54.4532	0	50	109	10	240
Iso-propylacetate	1	37.4538	0	50	75	10	139
Methyl methacrylate	1	0	0	50	0*	10	224
Dibromochloromethane	1	43.1799	0	50	86	32	140
2-Chloroethylvinylether	1	0	0	50	0*	10	266
cis-1,3-Dichloropropene	1	42.2211	0	50	84	27	139
trans-1,3-Dichloropropene	1	42.0065	0	50	84	22	141
Ethyl methacrylate	1	30.6498	0	50	61	16	151
1,1,2-Trichloroethane	1	41.1968	0	50	82	32	138
1,2-Dibromoethane	1	41.4723	0	50	83	30	135
1,3-Dichloropropane	1	40.0068	0	50	80	36	136
4-Methyl-2-Pentanone	1	31.0614	0	50	62	23	137
2-Hexanone	1	30.5802	0	50	61	10	149
Tetrachloroethene	1	55.4601	0	50	111	24	140
Toluene	1	45.6877	0	50	91	31	139
1,1,1,2-Tetrachloroethane	1	45.1964	0	50	90	31	134
Chlorobenzene	1	46.6293	0	50	93	24	134

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS109403

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	29.5228	0	50	59	10	140
n-Amyl acetate	1	31.9289	0	50	64	10	138
Bromoform	**1**	**41.7044**	**0**	**50**	**83**	**21**	**137**
Ethylbenzene	**1**	**47.3307**	**0**	**50**	**95**	**29**	**137**
1,1,2,2-Tetrachloroethane	**1**	**36.5709**	**0**	**50**	**73**	**18**	**136**
Styrene	**1**	**49.2894**	**0**	**50**	**99**	**14**	**141**
m&p-Xylenes	**1**	**93.3463**	**0**	**100**	**93**	**18**	**152**
o-Xylene	**1**	**47.1125**	**0**	**50**	**94**	**21**	**146**
trans-1,4-Dichloro-2-butene	1	34.4146	0	50	69	11	139
1,3-Dichlorobenzene	**1**	**48.9921**	**0**	**50**	**98**	**10**	**134**
1,4-Dichlorobenzene	**1**	**47.9809**	**0**	**50**	**96**	**10**	**132**
1,2-Dichlorobenzene	**1**	**45.2935**	**0**	**50**	**91**	**10**	**129**
Isopropylbenzene	**1**	**51.4167**	**0**	**50**	**103**	**14**	**150**
Cyclohexanone	1	201.4563	0	250	81	10	344
Camphene	1	52.706	0	50	105	10	137
1,2,3-Trichloropropane	1	38.6825	0	50	77	20	133
2-Chlorotoluene	1	47.295	0	50	95	13	140
p-Ethyltoluene	1	50.5593	0	50	101	10	138
4-Chlorotoluene	1	47.1775	0	50	94	10	138
n-Propylbenzene	1	50.2558	0	50	101	10	145
Bromobenzene	1	38.2823	0	50	77	14	132
1,3,5-Trimethylbenzene	1	55.1101	0	50	110	12	146
Butyl methacrylate	1	33.9971	0	50	68	10	154
t-Butylbenzene	1	54.2455	0	50	108	10	142
1,2,4-Trimethylbenzene	1	52.1223	0	50	104	10	147
sec-Butylbenzene	1	59.0994	0	50	118	10	146
4-Isopropyltoluene	1	51.7165	0	50	103	10	128
n-Butylbenzene	1	56.3937	0	50	113	10	146
p-Diethylbenzene	1	56.6247	0	50	113	10	142
1,2,4,5-Tetramethylbenzene	1	42.4044	0	50	85	10	130
1,2-Dibromo-3-Chloropropane	**1**	**43.8686**	**0**	**50**	**88**	**16**	**126**
Camphor	1	484.9761	0	200	242*	20	150
Hexachlorobutadiene	1	51.4007	0	50	103	10	123
1,2,4-Trichlorobenzene	**1**	**49.462**	**0**	**50**	**99**	**10**	**128**
1,2,3-Trichlorobenzene	**1**	**45.6153**	**0**	**50**	**91**	**10**	**123**
Naphthalene	1	40.4426	0	50	81	10	140

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS109403

	Data File	Sample ID:	Analysis Date
Spike or Dup:	1M174825.D	AD38487-003(MS)	6/14/2023 1:14:00 AM
Non Spike(If applicable):	1M174828.D	AD38487-003	6/14/2023 2:17:00 AM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	37.3773	0	50	75	10	168
Dichlorodifluoromethane	1	43.5615	0	50	87	10	150
Chloromethane	1	34.8911	0	50	70	12	150
Bromomethane	1	52.4046	0	50	105	23	136
Vinyl Chloride	1	49.1849	0	50	98	21	153
Chloroethane	1	51.9154	0	50	104	33	147
Trichlorofluoromethane	1	71.0221	0	50	142	29	156
Ethyl ether	1	36.6898	0	50	73	10	141
Furan	1	34.9561	0	50	70	22	152
1,1,2-Trichloro-1,2,2-trifluoroethane	1	73.7345	0	50	147	32	149
Methylene Chloride	1	35.8315	0	50	72	35	147
Acrolein	1	127.8767	0	200	64	10	149
Acrylonitrile	1	24.373	0	50	49	20	130
Iodomethane	1	105.4168	0	50	211*	10	152
Acetone	1	171.5117	13.3561	200	79	22	222
Carbon Disulfide	1	36.4339	0	50	73	18	135
t-Butyl Alcohol	1	135.433	0	200	68	38	178
n-Hexane	1	39.6204	0	50	79	11	154
Di-isopropyl-ether	1	30.0753	0	50	60	38	150
1,1-Dichloroethene	1	51.4446	0	50	103	31	165
Methyl Acetate	1	24.85	0	50	50	10	237
Methyl-t-butyl ether	1	37.8252	0	50	76	40	151
1,1-Dichloroethane	1	35.3314	0	50	71	41	149
trans-1,2-Dichloroethene	1	44.6342	0	50	89	33	150
Ethyl-t-butyl ether	1	32.6171	0	50	65	22	184
cis-1,2-Dichloroethene	1	35.0262	0	50	70	33	146
Bromochloromethane	1	30.0359	0	50	60	38	143
2,2-Dichloropropane	1	47.6737	0	50	95	38	161
Ethyl acetate	1	26.6417	0	50	53	10	130
1,4-Dioxane	1	2130.611	0	2500	85	35	151
1,1-Dichloropropene	1	49.2347	0	50	98	34	149
Chloroform	1	41.3586	0	50	83	41	145
Cyclohexane	1	40.0569	0	50	80	25	148
1,2-Dichloroethane	1	34.2117	0	50	68	37	143
2-Butanone	1	30.3805	0	50	61	21	163
1,1,1-Trichloroethane	1	50.8131	0	50	102	38	149
Carbon Tetrachloride	1	54.16	0	50	108	33	150
Vinyl Acetate	1	26.1673	0	50	52	10	112
Bromodichloromethane	1	41.8848	0	50	84	36	146
Methylcyclohexane	1	54.7341	0	50	109	15	147
Dibromomethane	1	45.7141	0	50	91	32	142
1,2-Dichloropropane	1	35.1741	0	50	70	40	144
Trichloroethene	1	49.8492	0	50	100	24	161
Benzene	1	43.3515	0	50	87	38	146
tert-Amyl methyl ether	1	39.9684	0	50	80	10	240
Iso-propylacetate	1	28.8425	0	50	58	10	139
Methyl methacrylate	1	26.3547	0	50	53	10	224
Dibromochloromethane	1	40.5058	0	50	81	32	140
2-Chloroethylvinylether	1	0	0	50	0*	10	266
cis-1,3-Dichloropropene	1	39.7869	0	50	80	27	139
trans-1,3-Dichloropropene	1	39.6625	0	50	79	22	141
Ethyl methacrylate	1	28.7496	0	50	57	16	151
1,1,2-Trichloroethane	1	38.2119	0	50	76	32	138
1,2-Dibromoethane	1	38.5175	0	50	77	30	135
1,3-Dichloropropane	1	37.2461	0	50	74	36	136
4-Methyl-2-Pentanone	1	29.0599	0	50	58	23	137
2-Hexanone	1	28.6479	0	50	57	10	149
Tetrachloroethene	1	53.7354	0	50	107	24	140
Toluene	1	43.8986	0	50	88	31	139
1,1,1,2-Tetrachloroethane	1	43.3998	0	50	87	31	134
Chlorobenzene	1	44.3639	0	50	89	24	134

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS109403

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	31.3926	0	50	63	10	140
n-Amyl acetate	1	28.4363	0	50	57	10	138
Bromoform	**1**	**42.0568**	**0**	**50**	**84**	**21**	**137**
Ethylbenzene	**1**	**48.042**	**0**	**50**	**96**	**29**	**137**
1,1,2,2-Tetrachloroethane	**1**	**36.9221**	**0**	**50**	**74**	**18**	**136**
Styrene	**1**	**50.4766**	**0**	**50**	**101**	**14**	**141**
m&p-Xylenes	**1**	**94.4008**	**0**	**100**	**94**	**18**	**152**
o-Xylene	**1**	**48.545**	**0**	**50**	**97**	**21**	**146**
trans-1,4-Dichloro-2-butene	1	33.2171	0	50	66	11	139
1,3-Dichlorobenzene	**1**	**47.6038**	**0**	**50**	**95**	**10**	**134**
1,4-Dichlorobenzene	**1**	**46.0476**	**0**	**50**	**92**	**10**	**132**
1,2-Dichlorobenzene	**1**	**43.7628**	**0**	**50**	**88**	**10**	**129**
Isopropylbenzene	**1**	**51.6206**	**0**	**50**	**103**	**14**	**150**
Cyclohexanone	1	254.5324	0	250	102	10	344
Camphene	1	52.4406	0	50	105	10	137
1,2,3-Trichloropropane	1	37.5094	0	50	75	20	133
2-Chlorotoluene	1	46.79	0	50	94	13	140
p-Ethyltoluene	1	50.121	0	50	100	10	138
4-Chlorotoluene	1	45.7474	0	50	91	10	138
n-Propylbenzene	1	49.645	0	50	99	10	145
Bromobenzene	1	37.3144	0	50	75	14	132
1,3,5-Trimethylbenzene	1	53.3337	0	50	107	12	146
Butyl methacrylate	1	29.8436	0	50	60	10	154
t-Butylbenzene	1	52.7206	0	50	105	10	142
1,2,4-Trimethylbenzene	1	50.4834	0	50	101	10	147
sec-Butylbenzene	1	57.1072	0	50	114	10	146
4-Isopropyltoluene	1	50.9497	0	50	102	10	128
n-Butylbenzene	1	54.1522	0	50	108	10	146
p-Diethylbenzene	1	54.8506	0	50	110	10	142
1,2,4,5-Tetramethylbenzene	1	40.7014	0	50	81	10	130
1,2-Dibromo-3-Chloropropane	**1**	**43.0033**	**0**	**50**	**86**	**16**	**126**
~~Camphor~~	~~1~~	~~528.9964~~	~~0~~				
MP 06128 Hexachlorobutadiene	1	59.5705	0	50	119	10	123
1,2,4-Trichlorobenzene	**1**	**47.7375**	**0**	**50**	**95**	**10**	**128**
1,2,3-Trichlorobenzene	**1**	**61.0483**	**0**	**50**	**122**	**10**	**123**
Naphthalene	1	49.1537	2.3441	50	94	10	140

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS109403

	Data File	Sample ID:	Analysis Date
Spike or Dup:	1M174826.D	AD38487-003(MSD)	6/14/2023 1:35:00 AM
Non Spike(If applicable):	1M174828.D	AD38487-003	6/14/2023 2:17:00 AM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	39.5218	0	50	79	10	168
Dichlorodifluoromethane	1	48.7856	0	50	98	10	150
Chloromethane	1	39.8867	0	50	80	12	150
Bromomethane	1	60.9529	0	50	122	23	136
Vinyl Chloride	1	54.5729	0	50	109	21	153
Chloroethane	1	57.8587	0	50	116	33	147
Trichlorofluoromethane	1	76.0806	0	50	152	29	156
Ethyl ether	1	43.3414	0	50	87	10	141
Furan	1	39.6297	0	50	79	22	152
1,1,2-Trichloro-1,2,2-trifluoroethane	1	49.1174	0	50	98	32	149
Methylene Chloride	1	42.0471	0	50	84	35	147
Acrolein	1	153.7755	0	200	77	10	149
Acrylonitrile	1	28.7421	0	50	57	20	130
Iodomethane	1	116.9535	0	50	234*	10	152
Acetone	1	142.6463	13.3561	200	65	22	222
Carbon Disulfide	1	40.3924	0	50	81	18	135
t-Butyl Alcohol	1	162.0147	0	200	81	38	178
n-Hexane	1	42.8269	0	50	86	11	154
Di-isopropyl-ether	1	34.4656	0	50	69	38	150
1,1-Dichloroethene	1	38.0908	0	50	76	31	165
Methyl Acetate	1	29.2041	0	50	58	10	237
Methyl-t-butyl ether	1	43.5251	0	50	87	40	151
1,1-Dichloroethane	1	39.6998	0	50	79	41	149
trans-1,2-Dichloroethene	1	48.9579	0	50	98	33	150
Ethyl-t-butyl ether	1	37.1756	0	50	74	22	184
cis-1,2-Dichloroethene	1	39.3563	0	50	79	33	146
Bromochloromethane	1	33.481	0	50	67	38	143
2,2-Dichloropropane	1	52.0977	0	50	104	38	161
Ethyl acetate	1	31.3206	0	50	63	10	130
1,4-Dioxane	1	2477.66	0	2500	99	35	151
1,1-Dichloropropene	1	52.1585	0	50	104	34	149
Chloroform	1	46.2876	0	50	93	41	145
Cyclohexane	1	40.9254	0	50	82	25	148
1,2-Dichloroethane	1	39.3009	0	50	79	37	143
2-Butanone	1	29.9119	0	50	60	21	163
1,1,1-Trichloroethane	1	54.2662	0	50	109	38	149
Carbon Tetrachloride	1	57.2865	0	50	115	33	150
Vinyl Acetate	1	28.5806	0	50	57	10	112
Bromodichloromethane	1	47.4611	0	50	95	36	146
Methylcyclohexane	1	57.2223	0	50	114	15	147
Dibromomethane	1	52.2205	0	50	104	32	144
1,2-Dichloropropane	1	39.3759	0	50	79	40	144
Trichloroethene	1	53.7103	0	50	107	24	161
Benzene	1	48.2311	0	50	96	38	146
tert-Amyl methyl ether	1	45.7559	0	50	92	10	240
Iso-propylacetate	1	32.7737	0	50	66	10	139
Methyl methacrylate	1	29.5292	0	50	59	10	224
Dibromochloromethane	1	46.2858	0	50	93	32	140
2-Chloroethylvinylether	1	2.1467	0	50	4.3*	10	266
cis-1,3-Dichloropropene	1	45.1789	0	50	90	27	139
trans-1,3-Dichloropropene	1	45.4011	0	50	91	22	141
Ethyl methacrylate	1	31.9971	0	50	64	16	151
1,1,2-Trichloroethane	1	44.9289	0	50	90	32	138
1,2-Dibromoethane	1	44.079	0	50	88	30	135
1,3-Dichloropropane	1	42.9688	0	50	86	36	136
4-Methyl-2-Pentanone	1	32.2447	0	50	64	23	137
2-Hexanone	1	32.3574	0	50	65	10	149
Tetrachloroethene	1	57.9467	0	50	116	24	140
Toluene	1	48.09	0	50	96	31	139
1,1,1,2-Tetrachloroethane	1	48.7363	0	50	97	31	134
Chlorobenzene	1	48.3006	0	50	97	24	134

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS109403

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	32.2753	0	50	65	10	140
n-Amyl acetate	1	29.8026	0	50	60	10	138
Bromoform	**1**	**46.2492**	**0**	**50**	**92**	**21**	**137**
Ethylbenzene	**1**	**52.0755**	**0**	**50**	**104**	**29**	**137**
1,1,2,2-Tetrachloroethane	**1**	**40.0575**	**0**	**50**	**80**	**18**	**136**
Styrene	**1**	**53.2291**	**0**	**50**	**106**	**14**	**141**
m&p-Xylenes	**1**	**100.4684**	**0**	**100**	**100**	**18**	**152**
o-Xylene	**1**	**50.4543**	**0**	**50**	**101**	**21**	**146**
trans-1,4-Dichloro-2-butene	1	35.3188	0	50	71	11	139
1,3-Dichlorobenzene	**1**	**51.1262**	**0**	**50**	**102**	**10**	**134**
1,4-Dichlorobenzene	**1**	**50.2372**	**0**	**50**	**100**	**10**	**132**
1,2-Dichlorobenzene	**1**	**47.2299**	**0**	**50**	**94**	**10**	**129**
Isopropylbenzene	**1**	**55.2714**	**0**	**50**	**111**	**14**	**150**
Cyclohexanone	1	280.7364	0	250	112	10	344
Camphene	1	55.2366	0	50	110	10	137
1,2,3-Trichloropropane	1	40.8263	0	50	82	20	133
2-Chlorotoluene	1	49.3562	0	50	99	13	140
p-Ethyltoluene	1	54.0211	0	50	108	10	138
4-Chlorotoluene	1	49.1806	0	50	98	10	138
n-Propylbenzene	1	53.0902	0	50	106	10	145
Bromobenzene	1	40.0349	0	50	80	14	132
1,3,5-Trimethylbenzene	1	56.9751	0	50	114	12	146
Butyl methacrylate	1	31.5349	0	50	63	10	154
t-Butylbenzene	1	56.2837	0	50	113	10	142
1,2,4-Trimethylbenzene	1	54.228	0	50	108	10	147
sec-Butylbenzene	1	61.4487	0	50	123	10	146
4-Isopropyltoluene	1	54.1658	0	50	108	10	128
n-Butylbenzene	1	58.5059	0	50	117	10	146
p-Diethylbenzene	1	59.4623	0	50	119	10	142
1,2,4,5-Tetramethylbenzene	1	51.266	0	50	103	10	130
1,2-Dibromo-3-Chloropropane	**1**	**63.3624**	**0**	**50**	**127***	**16**	**126**
~~Camphor~~	~~1~~	~~696.9247~~	0				
Hexachlorobutadiene	1	71.6795	0	50	143*	10	123
1,2,4-Trichlorobenzene	**1**	**65.4561**	**0**	**50**	**131***	**10**	**128**
1,2,3-Trichlorobenzene	**1**	**72.3766**	**0**	**50**	**145***	**10**	**123**
Naphthalene	1	58.9608	2.3441	50	113	10	140

MP 06/28

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS109403

	Data File	Sample ID:	Analysis Date
Spike or Dup:	1M174826.D	AD38487-003(MSD)	6/14/2023 1:35:00 AM
Duplicate(If applicable):	1M174825.D	AD38487-003(MS)	6/14/2023 1:14:00 AM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	39.5218	37.3773	5.6	56
Dichlorodifluoromethane	**1**	**48.7856**	**43.5615**	**11**	**60**
Chloromethane	**1**	**39.8867**	**34.8911**	**13**	**49**
Bromomethane	**1**	**60.9529**	**52.4046**	**15**	**38**
Vinyl Chloride	**1**	**54.5729**	**49.1849**	**10**	**47**
Chloroethane	**1**	**57.8587**	**51.9154**	**11**	**39**
Trichlorofluoromethane	**1**	**76.0806**	**71.0221**	**6.9**	**43**
Ethyl ether	1	43.3414	36.6898	17	106
Furan	1	39.6297	34.9561	13	56
1,1,2-Trichloro-1,2,2-trifluoroethane	**1**	**49.1174**	**73.7345**	**40**	**45**
Methylene Chloride	**1**	**42.0471**	**35.8315**	**16**	**35**
Acrolein	1	153.7755	127.8767	18	129
Acrylonitrile	1	28.7421	24.373	16	40
Iodomethane	1	116.9535	105.4168	10	46
Acetone	**1**	**142.6463**	**171.5117**	**18**	**41**
Carbon Disulfide	**1**	**40.3924**	**36.4339**	**10**	**44**
t-Butyl Alcohol	1	162.0147	135.433	18	38
n-Hexane	1	42.8269	39.6204	7.8	52
Di-isopropyl-ether	1	34.4656	30.0753	14	36
1,1-Dichloroethene	**1**	**38.0908**	**51.4446**	**30**	**42**
Methyl Acetate	**1**	**29.2041**	**24.85**	**16**	**43**
Methyl-t-butyl ether	**1**	**43.5251**	**37.8252**	**14**	**34**
1,1-Dichloroethane	**1**	**39.6998**	**35.3314**	**12**	**37**
trans-1,2-Dichloroethene	**1**	**48.9579**	**44.6342**	**9.2**	**40**
Ethyl-t-butyl ether	1	37.1756	32.6171	13	55
cis-1,2-Dichloroethene	**1**	**39.3563**	**35.0262**	**12**	**36**
Bromochloromethane	**1**	**33.481**	**30.0359**	**11**	**29**
2,2-Dichloropropane	1	52.0977	47.6737	8.9	38
Ethyl acetate	1	31.3206	26.6417	16	106
1,4-Dioxane	**1**	**2477.66**	**2130.611**	**15**	**38**
1,1-Dichloropropene	1	52.1585	49.2347	5.8	39
Chloroform	**1**	**46.2876**	**41.3586**	**11**	**31**
Cyclohexane	**1**	**40.9254**	**40.0569**	**2.1**	**44**
1,2-Dichloroethane	**1**	**39.3009**	**34.2117**	**14**	**29**
2-Butanone	**1**	**29.9119**	**30.3805**	**1.6**	**46**
1,1,1-Trichloroethane	**1**	**54.2662**	**50.8131**	**6.6**	**36**
Carbon Tetrachloride	**1**	**57.2865**	**54.16**	**5.6**	**37**
Vinyl Acetate	1	28.5806	26.1673	8.8	44
Bromodichloromethane	**1**	**47.4611**	**41.8848**	**12**	**32**
Methylcyclohexane	**1**	**57.2223**	**54.7341**	**4.4**	**45**
Dibromomethane	1	52.2205	45.7141	13	30
1,2-Dichloropropane	**1**	**39.3759**	**35.1741**	**11**	**31**
Trichloroethene	**1**	**53.7103**	**49.8492**	**7.5**	**36**
Benzene	**1**	**48.2311**	**43.3515**	**11**	**33**
tert-Amyl methyl ether	1	45.7559	39.9684	14	29
Iso-propylacetate	1	32.7737	28.8425	13	117
Methyl methacrylate	1	29.5292	26.3547	11	68
Dibromochloromethane	**1**	**46.2858**	**40.5058**	**13**	**35**
2-Chloroethylvinylether	1	2.1467	0	200*	167
cis-1,3-Dichloropropene	**1**	**45.1789**	**39.7869**	**13**	**36**
trans-1,3-Dichloropropene	**1**	**45.4011**	**39.6625**	**13**	**37**
Ethyl methacrylate	1	31.9971	28.7496	11	46
1,1,2-Trichloroethane	**1**	**44.9289**	**38.2119**	**16**	**41**
1,2-Dibromoethane	**1**	**44.079**	**38.5175**	**13**	**34**
1,3-Dichloropropane	1	42.9688	37.2461	14	33
4-Methyl-2-Pentanone	**1**	**32.2447**	**29.0599**	**10**	**57**
2-Hexanone	**1**	**32.3574**	**28.6479**	**12**	**63**
Tetrachloroethene	**1**	**57.9467**	**53.7354**	**7.5**	**40**
Toluene	**1**	**48.09**	**43.8986**	**9.1**	**38**
1,1,1,2-Tetrachloroethane	1	48.7363	43.3998	12	35
Chlorobenzene	**1**	**48.3006**	**44.3639**	**8.5**	**38**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: MBS109403

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	32.2753	31.3926	2.8	134
n-Amyl acetate	1	29.8026	28.4363	4.7	166
Bromoform	**1**	**46.2492**	**42.0568**	**9.5**	**37**
Ethylbenzene	**1**	**52.0755**	**48.042**	**8.1**	**36**
1,1,2,2-Tetrachloroethane	**1**	**40.0575**	**36.9221**	**8.1**	**40**
Styrene	**1**	**53.2291**	**50.4766**	**5.3**	**45**
m&p-Xylenes	**1**	**100.4684**	**94.4008**	**6.2**	**44**
o-Xylene	**1**	**50.4543**	**48.545**	**3.9**	**43**
trans-1,4-Dichloro-2-butene	1	35.3188	33.2171	6.1	39
1,3-Dichlorobenzene	**1**	**51.1262**	**47.6038**	**7.1**	**46**
1,4-Dichlorobenzene	**1**	**50.2372**	**46.0476**	**8.7**	**47**
1,2-Dichlorobenzene	**1**	**47.2299**	**43.7628**	**7.6**	**47**
Isopropylbenzene	**1**	**55.2714**	**51.6206**	**6.8**	**46**
Cyclohexanone	1	280.7364	254.5324	9.8	63
Camphene	1	55.2366	52.4406	5.2	54
1,2,3-Trichloropropane	1	40.8263	37.5094	8.5	38
2-Chlorotoluene	1	49.3562	46.79	5.3	47
p-Ethyltoluene	1	54.0211	50.121	7.5	58
4-Chlorotoluene	1	49.1806	45.7474	7.2	48
n-Propylbenzene	1	53.0902	49.645	6.7	46
Bromobenzene	1	40.0349	37.3144	7	41
1,3,5-Trimethylbenzene	1	56.9751	53.3337	6.6	45
Butyl methacrylate	1	31.5349	29.8436	5.5	83
t-Butylbenzene	1	56.2837	52.7206	6.5	46
1,2,4-Trimethylbenzene	1	54.228	50.4834	7.2	49
sec-Butylbenzene	1	61.4487	57.1072	7.3	49
4-Isopropyltoluene	1	54.1658	50.9497	6.1	51
n-Butylbenzene	1	58.5059	54.1522	7.7	55
p-Diethylbenzene	1	59.4623	54.8506	8.1	55
1,2,4,5-Tetramethylbenzene	1	51.266	40.7014	23	59
1,2-Dibromo-3-Chloropropane	**1**	**63.3624**	**43.0033**	**38**	**43**
~~Camphor~~	~~1~~	~~696.9247~~	~~528.9964~~	~~27~~	
Hexachlorobutadiene	1	71.6795	59.5705	18	56
1,2,4-Trichlorobenzene	**1**	**65.4561**	**47.7375**	**31**	**58**
1,2,3-Trichlorobenzene	**1**	**72.3766**	**61.0483**	**17**	**60**
Naphthalene	1	58.9608	49.1537	18	70

MP 06128

* - Indicates outside of limits | NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS109413

Data File	Sample ID:	Analysis Date
Spike or Dup: 1M174859.D	MBS109413	6/14/2023 1:17:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	84.2465	0	50	168	10	168
Dichlorodifluoromethane	1	39.0702	0	50	78	10	150
Chloromethane	1	26.9756	0	50	54	12	150
Bromomethane	1	41.0149	0	50	82	23	136
Vinyl Chloride	1	38.0025	0	50	76	21	153
Chloroethane	1	43.2848	0	50	87	33	147
Trichlorofluoromethane	1	57.5087	0	50	115	29	156
Ethyl ether	1	35.2058	0	50	70	10	141
Furan	1	31.1595	0	50	62	22	152
1,1,2-Trichloro-1,2,2-trifluoroethane	1	66.5356	0	50	133	32	149
Methylene Chloride	1	43.367	0	50	87	35	147
Acrolein	1	139.6508	0	200	70	10	149
Acrylonitrile	1	29.7118	0	50	59	20	130
Iodomethane	1	112.7762	0	50	226*	10	152
Acetone	1	160.702	0	200	80	22	222
Carbon Disulfide	1	38.7319	0	50	77	18	135
t-Butyl Alcohol	1	170.8711	0	200	85	38	178
n-Hexane	1	42.2606	0	50	85	11	154
Di-isopropyl-ether	1	35.8502	0	50	72	38	150
1,1-Dichloroethene	1	45.0114	0	50	90	31	165
Methyl Acetate	1	28.4576	0	50	57	10	237
Methyl-t-butyl ether	1	47.3655	0	50	95	40	151
1,1-Dichloroethane	1	41.5641	0	50	83	41	149
trans-1,2-Dichloroethene	1	53.603	0	50	107	33	150
Ethyl-t-butyl ether	1	38.8539	0	50	78	22	184
cis-1,2-Dichloroethene	1	40.5392	0	50	81	33	146
Bromochloromethane	1	32.1656	0	50	64	38	143
2,2-Dichloropropane	1	56.6217	0	50	113	38	161
Ethyl acetate	1	31.8735	0	50	64	10	130
1,4-Dioxane	1	1885.119	0	2500	75	35	151
1,1-Dichloropropene	1	56.5046	0	50	113	34	149
Chloroform	1	50.1015	0	50	100	41	145
Cyclohexane	1	43.952	0	50	88	25	148
1,2-Dichloroethane	1	37.989	0	50	76	37	143
2-Butanone	1	33.6265	0	50	67	21	163
1,1,1-Trichloroethane	1	61.296	0	50	123	38	149
Carbon Tetrachloride	1	63.9959	0	50	128	33	150
Vinyl Acetate	1	35.2154	0	50	70	10	112
Bromodichloromethane	1	50.1891	0	50	100	36	146
Methylcyclohexane	1	67.1149	0	50	134	15	147
Dibromomethane	1	66.3564	0	50	133	32	144
1,2-Dichloropropane	1	41.0162	0	50	82	40	144
Trichloroethene	1	67.5685	0	50	135	24	161
Benzene	1	52.2363	0	50	104	38	146
tert-Amyl methyl ether	1	48.4366	0	50	97	10	240
Iso-propylacetate	1	33.7719	0	50	68	10	139
Methyl methacrylate	1	31.7858	0	50	64	10	224
Dibromochloromethane	1	56.1977	0	50	112	32	140
2-Chloroethylvinylether	1	0	0	50	0*	10	266
cis-1,3-Dichloropropene	1	48.8225	0	50	98	27	139
trans-1,3-Dichloropropene	1	47.3232	0	50	95	22	141
Ethyl methacrylate	1	33.1207	0	50	66	16	151
1,1,2-Trichloroethane	1	50.8399	0	50	102	32	138
1,2-Dibromoethane	1	52.5232	0	50	105	30	135
1,3-Dichloropropane	1	45.828	0	50	92	36	136
4-Methyl-2-Pentanone	1	33.8413	0	50	68	23	137
2-Hexanone	1	32.4371	0	50	65	10	149
Tetrachloroethene	1	76.2719	0	50	153*	24	140
Toluene	1	53.735	0	50	107	31	139
1,1,1,2-Tetrachloroethane	1	59.5236	0	50	119	31	134
Chlorobenzene	1	57.5286	0	50	115	24	134

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS109413

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	33.6832	0	50	67	10	140
n-Amyl acetate	1	35.2106	0	50	70	10	138
Bromoform	**1**	**57.229**	**0**	**50**	**114**	**21**	**137**
Ethylbenzene	**1**	**56.9619**	**0**	**50**	**114**	**29**	**137**
1,1,2,2-Tetrachloroethane	**1**	**39.8139**	**0**	**50**	**80**	**18**	**136**
Styrene	**1**	**56.986**	**0**	**50**	**114**	**14**	**141**
m&p-Xylenes	**1**	**108.1154**	**0**	**100**	**108**	**18**	**152**
o-Xylene	**1**	**55.0044**	**0**	**50**	**110**	**21**	**146**
trans-1,4-Dichloro-2-butene	1	34.4665	0	50	69	11	139
1,3-Dichlorobenzene	**1**	**66.3687**	**0**	**50**	**133**	**10**	**134**
1,4-Dichlorobenzene	**1**	**60.5901**	**0**	**50**	**121**	**10**	**132**
1,2-Dichlorobenzene	**1**	**63.3527**	**0**	**50**	**127**	**10**	**129**
Isopropylbenzene	**1**	**60.1708**	**0**	**50**	**120**	**14**	**150**
Cyclohexanone	1	452.8197	0	250	181	10	344
Camphene	1	58.7755	0	50	118	10	137
1,2,3-Trichloropropane	1	39.8255	0	50	80	20	133
2-Chlorotoluene	1	57.4099	0	50	115	13	140
p-Ethyltoluene	1	63.9889	0	50	128	10	138
4-Chlorotoluene	1	58.791	0	50	118	10	138
n-Propylbenzene	1	57.9105	0	50	116	10	145
Bromobenzene	1	39.7773	0	50	80	14	132
1,3,5-Trimethylbenzene	1	66.8849	0	50	134	12	146
Butyl methacrylate	1	42.5471	0	50	85	10	154
t-Butylbenzene	1	72.1246	0	50	144*	10	142
1,2,4-Trimethylbenzene	1	68.1516	0	50	136	10	147
sec-Butylbenzene	1	76.8847	0	50	154*	10	146
4-Isopropyltoluene	1	68.8183	0	50	138*	10	128
n-Butylbenzene	1	74.145	0	50	148*	10	146
p-Diethylbenzene	1	80.4613	0	50	161*	10	142
1,2,4,5-Tetramethylbenzene	1	61.9751	0	50	124	10	130
1,2-Dibromo-3-Chloropropane	**1**	**61.9878**	**0**	**50**	**124**	**16**	**126**
Camphor	1	601.5822	0	200	301*	20	150
Hexachlorobutadiene	1	89.7147	0	50	179*	10	123
1,2,4-Trichlorobenzene	**1**	**74.0179**	**0**	**50**	**148***	**10**	**128**
1,2,3-Trichlorobenzene	**1**	**70.8309**	**0**	**50**	**142***	**10**	**123**
Naphthalene	1	54.4437	0	50	109	10	140

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch:MBS109413

	Data File	Sample ID:	Analysis Date
Spike or Dup:	1M174860.D	AD38501-004(MS)	6/14/2023 1:38:00 PM
Non Spike(If applicable):	1M174862.D	AD38501-004	6/14/2023 2:20:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	54.301	0	50	109	10	168
Dichlorodifluoromethane	1	26.7879	0	50	54	10	150
Chloromethane	1	26.4717	0	50	53	12	150
Bromomethane	1	46.304	0	50	93	23	136
Vinyl Chloride	1	37.1344	0	50	74	21	153
Chloroethane	1	44.8522	0	50	90	33	147
Trichlorofluoromethane	1	63.1931	0	50	126	29	156
Ethyl ether	1	39.6606	0	50	79	10	141
Furan	1	34.8052	0	50	70	22	152
1,1,2-Trichloro-1,2,2-trifluoroethane	1	54.3952	0	50	109	32	149
Methylene Chloride	1	45.8858	0	50	92	35	147
Acrolein	1	122.1381	0	200	61	10	149
Acrylonitrile	1	31.0067	0	50	62	20	130
Iodomethane	1	124.125	0	50	248*	10	152
Acetone	1	172.293	0	200	86	22	222
Carbon Disulfide	1	42.6856	0	50	85	18	135
t-Butyl Alcohol	1	183.7702	0	200	92	38	178
n-Hexane	1	45.5322	0	50	91	11	154
Di-isopropyl-ether	1	36.8871	0	50	74	38	150
1,1-Dichloroethene	1	39.014	0	50	78	31	165
Methyl Acetate	1	37.4153	0	50	75	10	237
Methyl-t-butyl ether	1	47.7776	0	50	96	40	151
1,1-Dichloroethane	1	42.9323	0	50	86	41	149
trans-1,2-Dichloroethene	1	54.6268	0	50	109	33	150
Ethyl-t-butyl ether	1	39.3653	0	50	79	22	184
cis-1,2-Dichloroethene	1	40.9714	0	50	82	33	146
Bromochloromethane	1	33.6675	0	50	67	38	143
2,2-Dichloropropane	1	58.2808	0	50	117	38	161
Ethyl acetate	1	30.3194	0	50	61	10	130
1,4-Dioxane	1	2303.604	0	2500	92	35	151
1,1-Dichloropropene	1	58.1484	0	50	116	34	149
Chloroform	1	50.8895	0	50	102	41	145
Cyclohexane	1	45.837	0	50	92	25	148
1,2-Dichloroethane	1	38.7994	0	50	78	37	143
2-Butanone	1	33.0196	0	50	66	21	163
1,1,1-Trichloroethane	1	62.3432	0	50	125	38	149
Carbon Tetrachloride	1	65.6893	0	50	131	33	150
Vinyl Acetate	1	29.5315	0	50	59	10	112
Bromodichloromethane	1	50.153	0	50	100	36	146
Methylcyclohexane	1	66.9634	0	50	134	15	147
Dibromomethane	1	58.7207	0	50	117	32	142
1,2-Dichloropropane	1	41.1785	0	50	82	40	144
Trichloroethene	1	63.472	0	50	127	24	161
Benzene	1	52.1619	0	50	104	38	146
tert-Amyl methyl ether	1	47.009	0	50	94	10	240
Iso-propylacetate	1	32.5591	0	50	65	10	139
Methyl methacrylate	1	35.3688	0	50	71	10	224
Dibromochloromethane	1	53.346	0	50	107	32	140
2-Chloroethylvinylether	1	3.262	0	50	6.5*	10	266
cis-1,3-Dichloropropene	1	49.9613	0	50	100	27	139
trans-1,3-Dichloropropene	1	48.5941	0	50	97	22	141
Ethyl methacrylate	1	32.5358	0	50	65	16	151
1,1,2-Trichloroethane	1	48.7277	0	50	97	32	138
1,2-Dibromoethane	1	50.2363	0	50	100	30	135
1,3-Dichloropropane	1	46.5045	0	50	93	36	136
4-Methyl-2-Pentanone	1	34.9372	0	50	70	23	137
2-Hexanone	1	34.5959	0	50	69	10	149
Tetrachloroethene	1	70.8837	0	50	142*	24	140
Toluene	1	54.1284	0	50	108	31	139
1,1,1,2-Tetrachloroethane	1	56.7411	0	50	113	31	134
Chlorobenzene	1	56.514	0	50	113	24	134

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS109413

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	28.4871	0	50	57	10	140
n-Amyl acetate	1	26.096	0	50	52	10	138
Bromoform	1	49.2694	0	50	99	21	137
Ethylbenzene	1	54.3549	0	50	109	29	137
1,1,2,2-Tetrachloroethane	1	39.2508	0	50	79	18	136
Styrene	1	54.3221	0	50	109	14	141
m&p-Xylenes	1	103.3926	0	100	103	18	152
o-Xylene	1	52.7568	0	50	106	21	146
trans-1,4-Dichloro-2-butene	1	33.8598	0	50	68	11	139
1,3-Dichlorobenzene	1	62.209	0	50	124	10	134
1,4-Dichlorobenzene	1	60.5726	0	50	121	10	132
1,2-Dichlorobenzene	1	60.1941	0	50	120	10	129
Isopropylbenzene	1	59.0532	0	50	118	14	150
Cyclohexanone	1	469.7303	0	250	188	10	344
Camphene	1	60.4817	0	50	121	10	137
1,2,3-Trichloropropane	1	39.2695	0	50	79	20	133
2-Chlorotoluene	1	53.7183	0	50	107	13	140
p-Ethyltoluene	1	61.3156	0	50	123	10	138
4-Chlorotoluene	1	51.7147	0	50	103	10	138
n-Propylbenzene	1	56.1876	0	50	112	10	145
Bromobenzene	1	43.2856	0	50	87	14	132
1,3,5-Trimethylbenzene	1	61.8231	0	50	124	12	146
Butyl methacrylate	1	35.3591	0	50	71	10	154
t-Butylbenzene	1	66.7966	0	50	134	10	142
1,2,4-Trimethylbenzene	1	60.8915	0	50	122	10	147
sec-Butylbenzene	1	70.2669	0	50	141	10	146
4-Isopropyltoluene	1	63.7287	0	50	127	10	128
n-Butylbenzene	1	67.8754	0	50	136	10	146
p-Diethylbenzene	1	75.0253	0	50	150*	10	142
1,2,4,5-Tetramethylbenzene	1	57.7214	0	50	115	10	130
1,2-Dibromo-3-Chloropropane	1	58.8871	0	50	118	16	126
~~Camphor~~	~~1~~	~~624.8703~~	~~0~~				
Hexachlorobutadiene	1	76.0733	0	50	152*	10	123
1,2,4-Trichlorobenzene	1	69.5859	0	50	139*	10	128
1,2,3-Trichlorobenzene	1	64.89	0	50	130*	10	123
Naphthalene	1	52.2246	4.1204	50	96	10	140

MP 09/29

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch:MBS109413

	Data File	Sample ID:	Analysis Date
Spike or Dup:	1M174861.D	AD38501-004(MSD)	6/14/2023 1:59:00 PM
Non Spike(If applicable):	1M174862.D	AD38501-004	6/14/2023 2:20:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	42.1332	0	50	84	10	168
Dichlorodifluoromethane	1	26.9665	0	50	54	10	150
Chloromethane	1	26.6636	0	50	53	12	150
Bromomethane	1	48.891	0	50	98	23	136
Vinyl Chloride	1	39.4502	0	50	79	21	153
Chloroethane	1	47.3126	0	50	95	33	147
Trichlorofluoromethane	1	68.7175	0	50	137	29	156
Ethyl ether	1	40.769	0	50	82	10	141
Furan	1	35.7494	0	50	71	22	152
1,1,2-Trichloro-1,2,2-trifluoroethane	1	62.8573	0	50	126	32	149
Methylene Chloride	1	49.3086	0	50	99	35	147
Acrolein	1	146.9195	0	200	73	10	149
Acrylonitrile	1	34.0932	0	50	68	20	130
Iodomethane	1	126.817	0	50	254*	10	152
Acetone	1	173.006	0	200	87	22	222
Carbon Disulfide	1	44.3406	0	50	89	18	135
t-Butyl Alcohol	1	234.3607	0	200	117	38	178
n-Hexane	1	47.8872	0	50	96	11	154
Di-isopropyl-ether	1	39.7527	0	50	80	38	150
1,1-Dichloroethene	1	42.4172	0	50	85	31	165
Methyl Acetate	1	45.1516	0	50	90	10	237
Methyl-t-butyl ether	1	51.7571	0	50	104	40	151
1,1-Dichloroethane	1	46.0753	0	50	92	41	149
trans-1,2-Dichloroethene	1	58.7277	0	50	117	33	150
Ethyl-t-butyl ether	1	42.4215	0	50	85	22	184
cis-1,2-Dichloroethene	1	44.4442	0	50	89	33	146
Bromochloromethane	1	37.0148	0	50	74	38	143
2,2-Dichloropropane	1	62.9716	0	50	126	38	161
Ethyl acetate	1	31.8367	0	50	64	10	130
1,4-Dioxane	1	3222.387	0	2500	129	35	151
1,1-Dichloropropene	1	62.0208	0	50	124	34	149
Chloroform	1	54.6905	0	50	109	41	145
Cyclohexane	1	47.6001	0	50	95	25	148
1,2-Dichloroethane	1	41.9874	0	50	84	37	143
2-Butanone	1	38.0586	0	50	76	21	163
1,1,1-Trichloroethane	1	67.2058	0	50	134	38	149
Carbon Tetrachloride	1	70.8617	0	50	142	33	150
Vinyl Acetate	1	29.6313	0	50	59	10	112
Bromodichloromethane	1	54.5732	0	50	109	36	146
Methylcyclohexane	1	70.1284	0	50	140	15	147
Dibromomethane	1	62.6277	0	50	125	32	144
1,2-Dichloropropane	1	44.1909	0	50	88	40	144
Trichloroethene	1	66.7772	0	50	134	24	161
Benzene	1	56.0293	0	50	112	38	146
tert-Amyl methyl ether	1	51.6322	0	50	103	10	240
Iso-propylacetate	1	35.5967	0	50	71	10	139
Methyl methacrylate	1	38.0265	0	50	76	10	224
Dibromochloromethane	1	57.6704	0	50	115	32	140
2-Chloroethylvinylether	1	0	0	50	0*	10	266
cis-1,3-Dichloropropene	1	54.8436	0	50	110	27	139
trans-1,3-Dichloropropene	1	52.2941	0	50	105	22	141
Ethyl methacrylate	1	35.2508	0	50	71	16	151
1,1,2-Trichloroethane	1	53.5866	0	50	107	32	138
1,2-Dibromoethane	1	55.0365	0	50	110	30	135
1,3-Dichloropropane	1	49.5619	0	50	99	36	136
4-Methyl-2-Pentanone	1	38.2579	0	50	77	23	137
2-Hexanone	1	37.9777	0	50	76	10	149
Tetrachloroethene	1	74.1192	0	50	148*	24	140
Toluene	1	57.6463	0	50	115	31	139
1,1,1,2-Tetrachloroethane	1	60.8789	0	50	122	31	134
Chlorobenzene	1	60.2594	0	50	121	24	134

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS109413

Method: 8260D   Matrix: Soil   Units: mg/Kg   QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	30.6631	0	50	61	10	140
n-Amyl acetate	1	25.6315	0	50	51	10	138
Bromoform	**1**	**55.1351**	**0**	**50**	**110**	**21**	**137**
Ethylbenzene	**1**	**59.3013**	**0**	**50**	**119**	**29**	**137**
1,1,2,2-Tetrachloroethane	**1**	**44.0797**	**0**	**50**	**88**	**18**	**136**
Styrene	**1**	**60.6201**	**0**	**50**	**121**	**14**	**141**
m&p-Xylenes	**1**	**115.2682**	**0**	**100**	**115**	**18**	**152**
o-Xylene	**1**	**58.7371**	**0**	**50**	**117**	**21**	**146**
trans-1,4-Dichloro-2-butene	1	37.6658	0	50	75	11	139
1,3-Dichlorobenzene	**1**	**66.0834**	**0**	**50**	**132**	**10**	**134**
1,4-Dichlorobenzene	**1**	**64.2256**	**0**	**50**	**128**	**10**	**132**
1,2-Dichlorobenzene	**1**	**62.2247**	**0**	**50**	**124**	**10**	**129**
Isopropylbenzene	**1**	**64.0227**	**0**	**50**	**128**	**14**	**150**
Cyclohexanone	1	556.7953	0	250	223	10	344
Camphene	1	63.3056	0	50	127	10	137
1,2,3-Trichloropropane	1	44.8105	0	50	90	20	133
2-Chlorotoluene	1	56.7691	0	50	114	13	140
p-Ethyltoluene	1	63.2963	0	50	127	10	138
4-Chlorotoluene	1	55.9021	0	50	112	10	138
n-Propylbenzene	1	60.0353	0	50	120	10	145
Bromobenzene	1	48.1029	0	50	96	14	132
1,3,5-Trimethylbenzene	1	66.5398	0	50	133	12	146
Butyl methacrylate	1	37.3318	0	50	75	10	154
t-Butylbenzene	1	69.4536	0	50	139	10	142
1,2,4-Trimethylbenzene	1	63.7126	0	50	127	10	147
sec-Butylbenzene	1	72.6765	0	50	145	10	146
4-Isopropyltoluene	1	65.5725	0	50	131*	10	128
n-Butylbenzene	1	67.5962	0	50	135	10	146
p-Diethylbenzene	1	76.0106	0	50	152*	10	142
1,2,4,5-Tetramethylbenzene	1	59.8431	0	50	120	10	130
1,2-Dibromo-3-Chloropropane	**1**	**62.467**	**0**	**50**	**125**	**16**	**126**
~~Camphor~~	~~1~~	~~818.8329~~	~~0~~				
Hexachlorobutadiene	1	70.8175	0	50	142*	10	123
1,2,4-Trichlorobenzene	**1**	**68.8286**	**0**	**50**	**138***	**10**	**128**
1,2,3-Trichlorobenzene	**1**	**64.4447**	**0**	**50**	**129***	**10**	**123**
Naphthalene	1	55.0185	4.1204	50	102	10	140

MP 0612Y

* - Indicates outside of limits   # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS109413

	Data File	Sample ID:	Analysis Date
Spike or Dup:	1M174861.D	AD38501-004(MSD)	6/14/2023 1:59:00 PM
Duplicate(If applicable):	1M174860.D	AD38501-004(MS)	6/14/2023 1:38:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	42.1332	54.301	25	56
Dichlorodifluoromethane	**1**	**26.9665**	**26.7879**	**0.66**	**60**
Chloromethane	**1**	**26.6636**	**26.4717**	**0.72**	**49**
Bromomethane	**1**	**48.891**	**46.304**	**5.4**	**38**
Vinyl Chloride	**1**	**39.4502**	**37.1344**	**6**	**47**
Chloroethane	**1**	**47.3126**	**44.8522**	**5.3**	**39**
Trichlorofluoromethane	**1**	**68.7175**	**63.1931**	**8.4**	**43**
Ethyl ether	1	40.769	39.6606	2.8	106
Furan	1	35.7494	34.8052	2.7	56
1,1,2-Trichloro-1,2,2-trifluoroethane	**1**	**62.8573**	**54.3952**	**14**	**45**
Methylene Chloride	**1**	**49.3086**	**45.8858**	**7.2**	**35**
Acrolein	1	146.9195	122.1381	18	129
Acrylonitrile	1	34.0932	31.0067	9.5	40
Iodomethane	1	126.817	124.125	2.1	46
Acetone	**1**	**173.006**	**172.293**	**0.41**	**41**
Carbon Disulfide	**1**	**44.3406**	**42.6856**	**3.8**	**44**
t-Butyl Alcohol	1	234.3607	183.7702	24	38
n-Hexane	1	47.8872	45.5322	5	52
Di-isopropyl-ether	1	39.7527	36.8871	7.5	36
1,1-Dichloroethene	**1**	**42.4172**	**39.014**	**8.4**	**42**
Methyl Acetate	**1**	**45.1516**	**37.4153**	**19**	**43**
Methyl-t-butyl ether	**1**	**51.7571**	**47.7776**	**8**	**34**
1,1-Dichloroethane	**1**	**46.0753**	**42.9323**	**7.1**	**37**
trans-1,2-Dichloroethene	**1**	**58.7277**	**54.6268**	**7.2**	**40**
Ethyl-t-butyl ether	1	42.4215	39.3653	7.5	55
cis-1,2-Dichloroethene	**1**	**44.4442**	**40.9714**	**8.1**	**36**
Bromochloromethane	**1**	**37.0148**	**33.6675**	**9.5**	**29**
2,2-Dichloropropane	1	62.9716	58.2808	7.7	38
Ethyl acetate	1	31.8367	30.3194	4.9	106
1,4-Dioxane	**1**	**3222.387**	**2303.604**	**33**	**38**
1,1-Dichloropropene	1	62.0208	58.1484	6.4	39
Chloroform	**1**	**54.6905**	**50.8895**	**7.2**	**31**
Cyclohexane	**1**	**47.6001**	**45.837**	**3.8**	**44**
1,2-Dichloroethane	**1**	**41.9874**	**38.7994**	**7.9**	**29**
2-Butanone	**1**	**38.0586**	**33.0196**	**14**	**46**
1,1,1-Trichloroethane	**1**	**67.2058**	**62.3432**	**7.5**	**36**
Carbon Tetrachloride	**1**	**70.8617**	**65.6893**	**7.6**	**37**
Vinyl Acetate	1	29.6313	29.5315	0.34	44
Bromodichloromethane	**1**	**54.5732**	**50.153**	**8.4**	**32**
Methylcyclohexane	**1**	**70.1284**	**66.9634**	**4.6**	**45**
Dibromomethane	1	62.6277	58.7207	6.4	30
1,2-Dichloropropane	**1**	**44.1909**	**41.1785**	**7.1**	**31**
Trichloroethene	**1**	**66.7772**	**63.472**	**5.1**	**36**
Benzene	**1**	**56.0293**	**52.1619**	**7.1**	**33**
tert-Amyl methyl ether	1	51.6322	47.009	9.4	29
Iso-propylacetate	1	35.5967	32.5591	8.9	117
Methyl methacrylate	1	38.0265	35.3688	7.2	68
Dibromochloromethane	**1**	**57.6704**	**53.346**	**7.8**	**35**
2-Chloroethylvinylether	1	0	3.262	200*	167
cis-1,3-Dichloropropene	**1**	**54.8436**	**49.9613**	**9.3**	**36**
trans-1,3-Dichloropropene	**1**	**52.2941**	**48.5941**	**7.3**	**37**
Ethyl methacrylate	1	35.2508	32.5358	8	46
1,1,2-Trichloroethane	**1**	**53.5866**	**48.7277**	**9.5**	**41**
1,2-Dibromoethane	**1**	**55.0365**	**50.2363**	**9.1**	**34**
1,3-Dichloropropane	1	49.5619	46.5045	6.4	33
4-Methyl-2-Pentanone	**1**	**38.2579**	**34.9372**	**9.1**	**57**
2-Hexanone	**1**	**37.9777**	**34.5959**	**9.3**	**63**
Tetrachloroethene	**1**	**74.1192**	**70.8837**	**4.5**	**40**
Toluene	**1**	**57.6463**	**54.1284**	**6.3**	**38**
1,1,1,2-Tetrachloroethane	1	60.8789	56.7411	7	35
Chlorobenzene	**1**	**60.2594**	**56.514**	**6.4**	**38**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: MBS109413

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	30.6631	28.4871	7.4	134
n-Amyl acetate	1	25.6315	26.096	1.8	166
Bromoform	**1**	**55.1351**	**49.2694**	**11**	**37**
Ethylbenzene	**1**	**59.3013**	**54.3549**	**8.7**	**36**
1,1,2,2-Tetrachloroethane	**1**	**44.0797**	**39.2508**	**12**	**40**
Styrene	**1**	**60.6201**	**54.3221**	**11**	**45**
m&p-Xylenes	**1**	**115.2682**	**103.3926**	**11**	**44**
o-Xylene	**1**	**58.7371**	**52.7568**	**11**	**43**
trans-1,4-Dichloro-2-butene	1	37.6658	33.8598	11	39
1,3-Dichlorobenzene	**1**	**66.0834**	**62.209**	**6**	**46**
1,4-Dichlorobenzene	**1**	**64.2256**	**60.5726**	**5.9**	**47**
1,2-Dichlorobenzene	**1**	**62.2247**	**60.1941**	**3.3**	**47**
Isopropylbenzene	**1**	**64.0227**	**59.0532**	**8.1**	**46**
Cyclohexanone	1	556.7953	469.7303	17	63
Camphene	1	63.3056	60.4817	4.6	54
1,2,3-Trichloropropane	1	44.8105	39.2695	13	38
2-Chlorotoluene	1	56.7691	53.7183	5.5	47
p-Ethyltoluene	1	63.2963	61.3156	3.2	58
4-Chlorotoluene	1	55.9021	51.7147	7.8	48
n-Propylbenzene	1	60.0353	56.1876	6.6	46
Bromobenzene	1	48.1029	43.2856	11	41
1,3,5-Trimethylbenzene	1	66.5398	61.8231	7.3	45
Butyl methacrylate	1	37.3318	35.3591	5.4	83
t-Butylbenzene	1	69.4536	66.7966	3.9	46
1,2,4-Trimethylbenzene	1	63.7126	60.8915	4.5	49
sec-Butylbenzene	1	72.6765	70.2669	3.4	49
4-Isopropyltoluene	1	65.5725	63.7287	2.9	51
n-Butylbenzene	1	67.5962	67.8754	0.41	55
p-Diethylbenzene	1	76.0106	75.0253	1.3	55
1,2,4,5-Tetramethylbenzene	1	59.8431	57.7214	3.6	59
1,2-Dibromo-3-Chloropropane	**1**	**62.467**	**58.8871**	**5.9**	**43**
~~Camphor~~	~~1~~	~~818.8329~~	~~624.8703~~	~~27~~	
MP 8260 Hexachlorobutadiene	1	70.8175	76.0733	7.2	56
1,2,4-Trichlorobenzene	**1**	**68.8286**	**69.5859**	**1.1**	**58**
1,2,3-Trichlorobenzene	**1**	**64.4447**	**64.89**	**0.69**	**60**
Naphthalene	1	55.0185	52.2246	5.2	70

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 1M174821.D
Matrix: Soil

Blank Analysis Date: 06/13/23 23:51
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

Sample Number	Data File	Analysis Date
AD38537-002	1M174836.D	06/14/23 05:04
AD38537-003	1M174837.D	06/14/23 05:25
AD38537-004	1M174838.D	06/14/23 05:46
AD38537-005	1M174845.D	06/14/23 08:13
AD38537-006	1M174839.D	06/14/23 06:07
AD38537-007	1M174840.D	06/14/23 06:28
AD38537-008	1M174841.D	06/14/23 06:49
AD38487-003(MSD	1M174826.D	06/14/23 01:35
AD38487-003(MS)	1M174825.D	06/14/23 01:14
MBS109403	1M174824.D	06/14/23 00:53
AD38487-003	1M174828.D	06/14/23 02:17

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 1M174856.D
Matrix: Soil

Blank Analysis Date: 06/14/23 12:14
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

Sample Number	Data File	Analysis Date
AD38537-001	1M174866.D	06/14/23 15:43
AD38501-004(MS)	1M174860.D	06/14/23 13:38
AD38501-004(MSD	1M174861.D	06/14/23 13:59
AD38501-004	1M174862.D	06/14/23 14:20
MBS109413	1M174859.D	06/14/23 13:17

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 1
Data File: 1M173756.D
Analysis Date: 05/18/23 21:54
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.508 to 7.518 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	25.9	3564	PASS
75	95	30	60	59.6	8214	PASS
95	95	100	100	100.0	13787	PASS
96	95	5	9	6.9	947	PASS
173	174	0.00	2	0.9	93	PASS
174	95	50	100	77.1	10629	PASS
175	174	5	9	6.4	677	PASS
176	174	95	101	96.8	10289	PASS
177	176	5	9	8.1	829	PASS

Data File	Sample Number	Analysis Date:
1M173758.D	CAL @ 0.5 PPB	05/18/23 22:30
1M173759.D	CAL @ 1 PPB	05/18/23 22:51
1M173760.D	CAL @ 2 PPB	05/18/23 23:12
1M173761.D	CAL @ 5 PPB	05/18/23 23:33
1M173762.D	CAL @ 20 PPB	05/18/23 23:54
1M173763.D	CAL @ 50 PPB	05/19/23 00:15
1M173765.D	CAL @ 100 PPB	05/19/23 00:56
1M173767.D	CAL @ 250 PPB	05/19/23 01:38
1M173770.D	CAL @ 500 PPB	05/19/23 02:40
1M173775.D	ICV	05/19/23 04:25
1M173780.D	DAILY BLANK	05/19/23 06:09
1M173781.D	MDL @ 1 PPB	05/19/23 06:30
1M173782.D	MDL @ 1 PPB	05/19/23 06:51
1M173783.D	MDL @ 1 PPB	05/19/23 07:12
1M173784.D	MDL @ 1 PPB	05/19/23 07:33

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 1
Data File: 1M174814.D
Analysis Date: 06/13/23 21:29
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.499 to 7.534 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	16.0	2734	PASS
75	95	30	60	47.6	8125	PASS
95	95	100	100	100.0	17067	PASS
96	95	5	9	7.7	1312	PASS
173	174	0.00	2	1.2	172	PASS
174	95	50	100	86.7	14799	PASS
175	174	5	9	5.2	772	PASS
176	174	95	101	97.1	14367	PASS
177	176	5	9	6.9	990	PASS

Data File	Sample Number	Analysis Date:
1M174815.D	CAL @ 50 PPB	06/13/23 21:45
1M174816.D	50 PPB	06/13/23 22:06
1M174817.D	BLK	06/13/23 22:27
1M174820.D	BLK	06/13/23 23:30
1M174821.D	DAILY BLANK	06/13/23 23:51
1M174822.D	AD38516-017	06/14/23 00:11
1M174823.D	AD38530-016	06/14/23 00:32
1M174824.D	MBS109403	06/14/23 00:53
1M174825.D	AD38487-003(MS)	06/14/23 01:14
1M174826.D	AD38487-003(MSD	06/14/23 01:35
1M174827.D	MBS109404	06/14/23 01:56
1M174828.D	AD38487-003	06/14/23 02:17
1M174829.D	AD38524-001	06/14/23 02:38
1M174830.D	AD38524-003	06/14/23 02:59
1M174831.D	AD38556-002	06/14/23 03:20
1M174832.D	AD38556-004	06/14/23 03:41
1M174833.D	AD38556-006	06/14/23 04:01
1M174834.D	AD38530-020	06/14/23 04:22
1M174835.D	AD38529-004	06/14/23 04:43
1M174836.D	AD38537-002	06/14/23 05:04
1M174837.D	AD38537-003	06/14/23 05:25
1M174838.D	AD38537-004	06/14/23 05:46
1M174839.D	AD38537-006	06/14/23 06:07
1M174840.D	AD38537-007	06/14/23 06:28
1M174841.D	AD38537-008	06/14/23 06:49
1M174842.D	AD38554-010	06/14/23 07:10
1M174843.D	AD38554-013	06/14/23 07:31
1M174844.D	AD38537-001	06/14/23 07:52
1M174845.D	AD38537-005	06/14/23 08:13
1M174846.D	AD38529-002	06/14/23 08:34

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 1
Data File: 1M174849.D
Analysis Date: 06/14/23 09:47
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.515 to 7.528 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	17.0	59130	PASS
75	95	30	60	52.1	180877	PASS
95	95	100	100	100.0	346880	PASS
96	95	5	9	6.7	23258	PASS
173	174	0.00	2	1.2	3503	PASS
174	95	50	100	83.3	288781	PASS
175	174	5	9	7.5	21701	PASS
176	174	95	101	96.7	279386	PASS
177	176	5	9	6.7	18677	PASS

Data File	Sample Number	Analysis Date:
1M174851.D	CAL @ 50 PPB	06/14/23 10:29
1M174853.D	BLK	06/14/23 11:11
1M174854.D	BLK	06/14/23 11:32
1M174855.D	BLK	06/14/23 11:53
1M174856.D	DAILY BLANK	06/14/23 12:14
1M174857.D	AD38550-001	06/14/23 12:35
1M174858.D	AD38551-004(5X)	06/14/23 12:56
1M174859.D	MBS109413	06/14/23 13:17
1M174860.D	AD38501-004(MS)	06/14/23 13:38
1M174861.D	AD38501-004(MSD	06/14/23 13:59
1M174862.D	AD38501-004	06/14/23 14:20
1M174863.D	BLK	06/14/23 14:41
1M174864.D	BLK	06/14/23 15:02
1M174865.D	AD38516-008	06/14/23 15:23
1M174866.D	AD38537-001	06/14/23 15:43
1M174867.D	AD38517-001	06/14/23 16:04
1M174868.D	AD38538-001	06/14/23 16:25
1M174869.D	AD38538-003	06/14/23 16:46
1M174870.D	AD38554-001	06/14/23 17:07
1M174871.D	AD38554-004	06/14/23 17:28
1M174872.D	AD38554-007	06/14/23 17:49
1M174873.D	AD38556-008	06/14/23 18:10
1M174874.D	AD38556-010	06/14/23 18:31
1M174875.D	AD38556-012	06/14/23 18:51
1M174876.D	AD38556-014	06/14/23 19:12
1M174877.D	AD38556-016	06/14/23 19:33
1M174878.D	AD38556-018	06/14/23 19:54
1M174879.D	AD38556-020	06/14/23 20:15
1M174880.D	AD38556-022	06/14/23 20:36
1M174881.D	AD38556-024	06/14/23 20:57
1M174882.D	AD38556-026	06/14/23 21:18

FORM8

Internal Standard Areas

Evaluation Std Data File: 1M173762.D Method: EPA 8260D

Analysis Date/Time: 05/18/23 23:54

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	766783	5.16	721492	6.88	425408	8.19								
Eval File Area Limit:	383392-1533566		360746-1442984		212704-850816									
Eval File Rt Limit:	4.66-5.66		6.38-7.38		7.69-8.69									

Data File	Sample#													
1M173758.D	CAL @ 0.5 PPB	792485	5.16	758193	6.88	432908	8.19							
1M173759.D	CAL @ 1 PPB	770445	5.16	728218	6.88	428515	8.19							
1M173760.D	CAL @ 2 PPB	772915	5.16	733860	6.88	421259	8.19							
1M173761.D	CAL @ 5 PPB	781258	5.16	727197	6.88	433916	8.19							
1M173762.D	CAL @ 20 PPB	766783	5.16	721492	6.88	425408	8.19							
1M173763.D	CAL @ 50 PPB	801881	5.16	764970	6.88	459167	8.19							
1M173765.D	CAL @ 100 PPB	798783	5.16	767674	6.88	509720	8.19							
1M173767.D	CAL @ 250 PPB	843947	5.16	821212	6.88	569403	8.19							
1M173770.D	CAL @ 500 PPB	1056529	5.16	1045214	6.88	578208	8.19							
1M173775.D	ICV	801936	5.16	762479	6.88	453105	8.19							
1M173780.D	DAILY BLANK	877713	5.16	826924	6.88	476288	8.19							
1M173781.D	MDL @ 1 PPB	780118	5.16	712105	6.88	430929	8.19							
1M173782.D	MDL @ 1 PPB	732183	5.16	690387	6.88	397369	8.19							
1M173783.D	MDL @ 1 PPB	716437	5.16	692262	6.88	391497	8.19							
1M173784.D	MDL @ 1 PPB	753303	5.16	703075	6.88	409705	8.19							

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 1M174815.D Method: EPA 8260D

Analysis Date/Time: 06/13/23 21:45

Lab File ID: CAL @ 50 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	872467	5.15	901107	6.87	690265	8.19								
Eval File Area Limit:	436234-1744934		450554-1802214		345132-1380530									
Eval File Rt Limit:	4.65-5.65		6.37-7.37		7.69-8.69									

Data File	Sample#													
1M174816.D	50 PPB	939130	5.16	942969	6.88	576104	8.19							
1M174817.D	BLK	854790	5.16	825612	6.88	453220	8.19							
1M174820.D	BLK	815384	5.16	800316	6.88	583335	8.19							
1M174821.D	DAILY BLANK	798409	5.16	774586	6.88	432042	8.19							
1M174822.D	AD38516-017	639909	5.16	632440	6.88	354655	8.19							
1M174823.D	AD38530-016	656512	5.16	598990	6.88	277680A	8.19							
1M174824.D	MBS109403	799810	5.16	805540	6.88	531882	8.19							
1M174825.D	AD38487-003(MS)	881830	5.16	908921	6.88	556347	8.19							
1M174826.D	AD38487-003(MSD)	865492	5.16	882804	6.88	547179	8.19							
1M174827.D	MBS109404	1348862	5.16	1305716	6.88	769483	8.19							
1M174828.D	AD38487-003	1278073	5.16	1237147	6.88	711899	8.19							
1M174829.D	AD38524-001	1247522	5.16	1197619	6.88	682018	8.19							
1M174830.D	AD38524-003	1139195	5.16	1008717	6.88	446108	8.19							
1M174831.D	AD38556-002	1170858	5.16	1080720	6.88	540877	8.19							
1M174832.D	AD38556-004	1182098	5.16	1076811	6.88	512887	8.19							
1M174833.D	AD38556-006	1210945	5.16	1149861	6.88	598909	8.19							
1M174834.D	AD38530-020	1218596	5.16	1193936	6.88	689753	8.19							
1M174835.D	AD38529-004	1183670	5.16	1141802	6.88	641003	8.19							
1M174836.D	AD38537-002	1105890	5.16	922311	6.88	391218	8.19							
1M174837.D	AD38537-003	1022864	5.16	947339	6.88	464184	8.19							
1M174838.D	AD38537-004	1098070	5.16	969151	6.88	432499	8.19							
1M174839.D	AD38537-006	1032059	5.16	819825	6.88	311858A	8.19							
1M174840.D	AD38537-007	1004962	5.16	795243	6.88	310983A	8.19							
1M174841.D	AD38537-008	1146019	5.16	1095488	6.88	593540	8.19							
1M174842.D	AD38554-010	1120893	5.16	1107957	6.88	647159	8.19							
1M174843.D	AD38554-013	822596	5.16	824478	6.88	479712	8.19							
1M174844.D	AD38537-001	606082	5.14	61825A	6.85	57042A	8.17							
1M174845.D	AD38537-005	1236433	5.16	1122533	6.88	580061	8.19							
1M174846.D	AD38529-002	1346633	5.16	1120508	6.88	569410	8.19							

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 1M174851.D Method: EPA 8260D

Analysis Date/Time: 06/14/23 10:29

Lab File ID: CAL @ 50 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	989505	5.16	1012575	6.88	758888	8.19								
Eval File Area Limit:	494752-1979010		506288-2025150		379444-1517776									
Eval File Rt Limit:	4.66-5.66		6.38-7.38		7.69-8.69									

Data File	Sample#						
1M174853.D	BLK	881260	5.16	860426	6.88	491481	8.19
1M174854.D	BLK	872536	5.16	838583	6.88	468029	8.19
1M174855.D	BLK	877996	5.16	840307	6.88	466206	8.19
1M174856.D	DAILY BLANK	840057	5.16	939309	6.88	458898	8.19
1M174857.D	AD38550-001	768782	5.16	737669	6.88	391344	8.19
1M174858.D	AD38551-004(5X)	785887	5.16	792358	6.88	807603	8.19
1M174859.D	MBS109413	1190163	5.16	1206267	6.88	822548	8.19
1M174860.D	AD38501-004(MS)	1075853	5.16	1064962	6.88	754338	8.19
1M174861.D	AD38501-004(MSD)	1057480	5.16	1040230	6.88	686646	8.19
1M174862.D	AD38501-004	1004199	5.16	997058	6.88	583517	8.19
1M174863.D	BLK	1078908	5.16	1057768	6.88	600520	8.19
1M174864.D	BLK	1008442	5.16	979580	6.88	544720	8.19
1M174865.D	AD38516-008	703798	5.16	693008	6.88	479809	8.19
1M174866.D	AD38537-001	856268	5.16	827954	6.88	555572	8.19
1M174867.D	AD38517-001	885055	5.16	798728	6.88	357846A	8.19
1M174868.D	AD38538-001	845901	5.16	739751	6.88	298289A	8.19
1M174869.D	AD38538-003	837223	5.16	743818	6.87	268052A	8.19
1M174870.D	AD38554-001	181714A	5.16	164669A	6.88	104244A	8.19
1M174871.D	AD38554-004	841400	5.16	791358	6.88	407638	8.19
1M174872.D	AD38554-007	833740	5.16	784946	6.88	406451	8.19
1M174873.D	AD38556-008	797785	5.16	753114	6.88	403635	8.19
1M174874.D	AD38556-010	818431	5.16	795204	6.88	449543	8.19
1M174875.D	AD38556-012	667148	5.16	604795	6.88	305082A	8.19
1M174876.D	AD38556-014	784910	5.16	763944	6.88	413240	8.19
1M174877.D	AD38556-016	767121	5.16	1040564	6.88	567367	8.19
1M174878.D	AD38556-018	746705	5.16	913242	6.88	454503	8.19
1M174879.D	AD38556-020	725302	5.16	710938	6.88	394495	8.19
1M174880.D	AD38556-022	780608	5.16	730866	6.88	540306	8.19
1M174881.D	AD38556-024	592153	5.16	587926	6.88	328083A	8.19
1M174882.D	AD38556-026	655838	5.16	643364	6.88	339484A	8.19

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

GC/MS Volatile Data
Sample Data

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38537-001
Client Id: SB-1 10-14
Data File: 1M174866.D
Analysis Date: 06/14/23 15:43
Date Rec/Extracted: 06/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 6g
Final Vol: NA
Dilution: 0.833
Solids: 91

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0018	U	56-23-5	Carbon Tetrachloride	0.0018	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0018	U	108-90-7	Chlorobenzene	0.0018	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0018	U	75-00-3	Chloroethane	0.0018	U
79-00-5	1,1,2-Trichloroethane	0.0018	U	67-66-3	Chloroform	0.0018	U
75-34-3	1,1-Dichloroethane	0.0018	U	74-87-3	Chloromethane	0.0018	U
75-35-4	1,1-Dichloroethene	0.0018	U	156-59-2	cis-1,2-Dichloroethene	0.0018	U
87-61-6	1,2,3-Trichlorobenzene	0.0018	U	10061-01-5	cis-1,3-Dichloropropene	0.0018	U
120-82-1	1,2,4-Trichlorobenzene	0.0018	U	110-82-7	Cyclohexane	0.0018	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0018	U	124-48-1	Dibromochloromethane	0.0018	U
106-93-4	1,2-Dibromoethane	0.00060	U	75-71-8	Dichlorodifluoromethane	0.0018	U
95-50-1	1,2-Dichlorobenzene	0.0018	U	100-41-4	Ethylbenzene	0.00092	U
107-06-2	1,2-Dichloroethane	0.0018	U	98-82-8	Isopropylbenzene	0.00092	U
78-87-5	1,2-Dichloropropane	0.0018	U	79601-23-1	m&p-Xylenes	0.0013	U
541-73-1	1,3-Dichlorobenzene	0.0018	U	**79-20-9**	**Methyl Acetate**	**0.0018**	**0.0042**
106-46-7	1,4-Dichlorobenzene	0.0018	U	108-87-2	Methylcyclohexane	0.0018	U
123-91-1	1,4-Dioxane	0.092	U	**75-09-2**	**Methylene Chloride**	**0.0018**	**0.0062**
78-93-3	2-Butanone	0.0018	U	1634-04-4	Methyl-t-butyl ether	0.00092	U
591-78-6	2-Hexanone	0.0018	U	95-47-6	o-Xylene	0.00092	U
108-10-1	4-Methyl-2-Pentanone	0.0018	U	100-42-5	Styrene	0.0018	U
67-64-1	Acetone	0.0092	U	127-18-4	Tetrachloroethene	0.0018	U
71-43-2	Benzene	0.00092	U	108-88-3	Toluene	0.00092	U
74-97-5	Bromochloromethane	0.0018	U	156-60-5	trans-1,2-Dichloroethene	0.0018	U
75-27-4	Bromodichloromethane	0.0018	U	10061-02-6	trans-1,3-Dichloropropene	0.0018	U
75-25-2	Bromoform	0.0018	U	79-01-6	Trichloroethene	0.0018	U
74-83-9	Bromomethane	0.0018	U	75-69-4	Trichlorofluoromethane	0.0018	U
75-15-0	Carbon Disulfide	0.0018	U	75-01-4	Vinyl Chloride	0.0018	U
1330-20-7	Xylenes (Total)	0.00092	U				

Worksheet #: 696062

Total Target Concentration 0.01

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1e

ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AD38537-001
Client Id: SB-1 10-14
Data File: 1M174866.D
Analysis Date: 06/14/23 15:43
Date Rec/Extracted: 06/13/23-NA

Matrix: Soil
Initial Vol: 6g
Final Vol: NA
Dilution: 0.833
Solids: 91
Method: EPA 8260D

Units: mg/Kg

	Cas #	Compound	RT	Conc
1		No Unknown Compounds Detected	0.00	0J

Worksheet #: 696062

Total Tentatively Identified Concentration 0

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

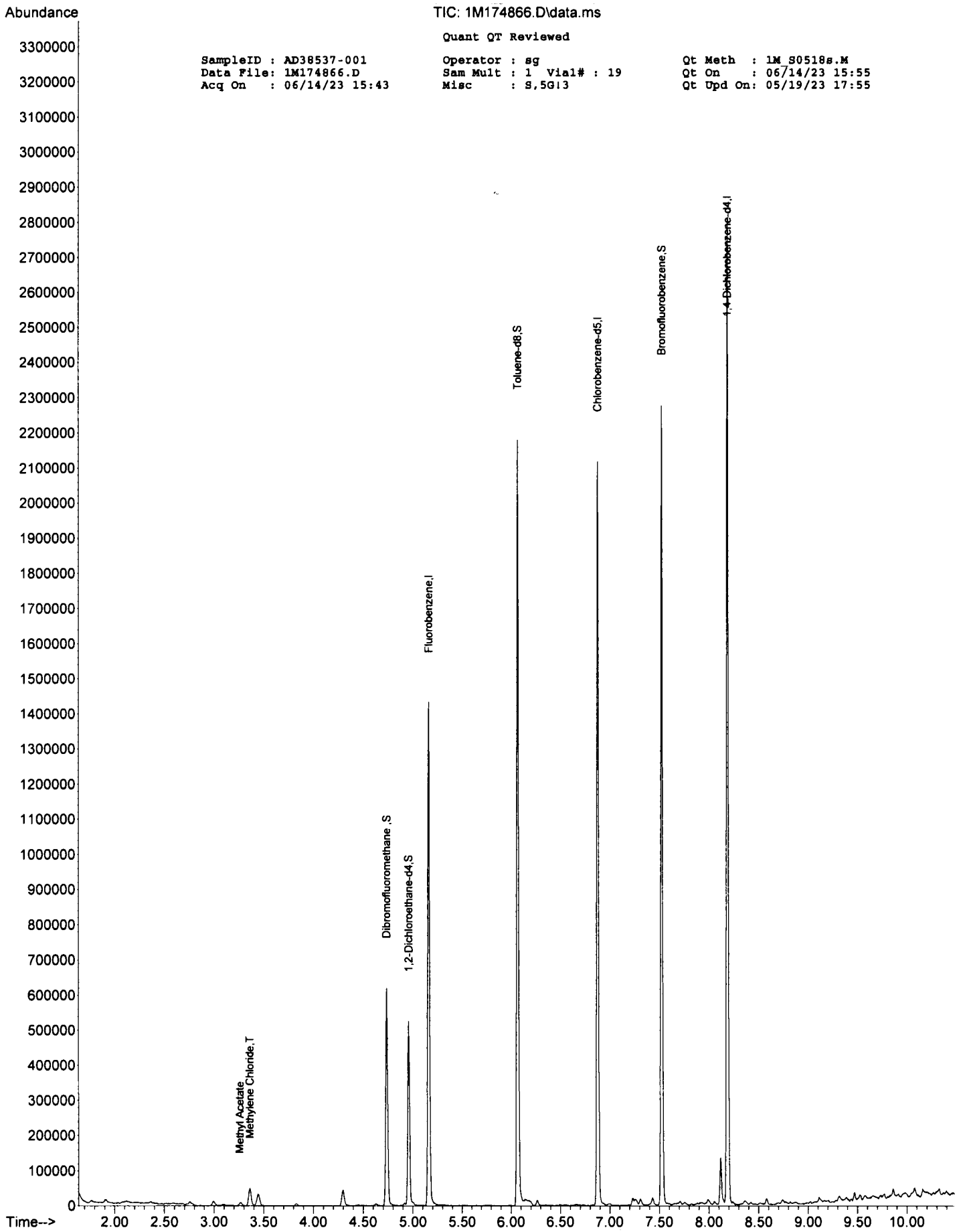
Quantitation Report (QT Reviewed)

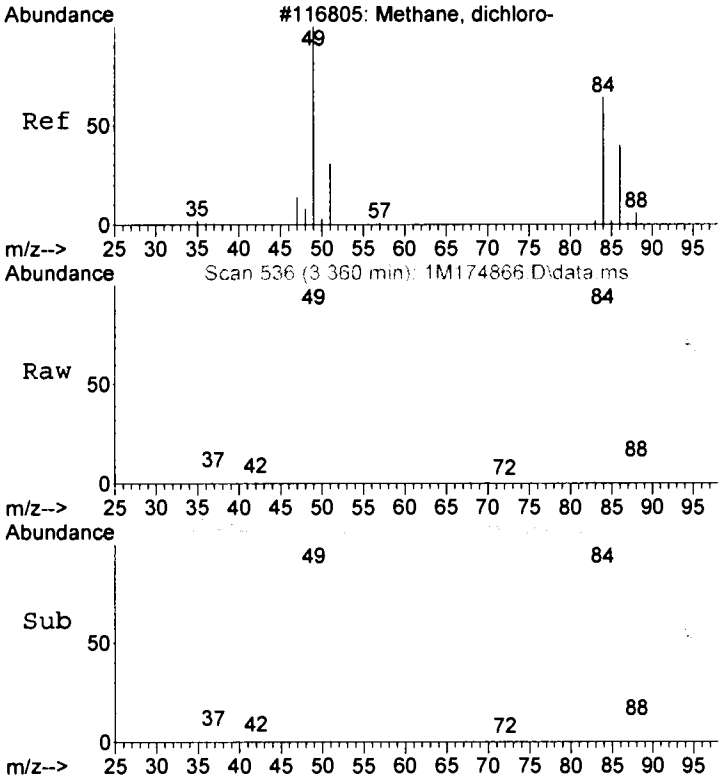
SampleID : AD38537-001 Operator : sg Qt Meth : 1M_S0518s.M
Data File: 1M174866.D Sam Mult : 1 Vial# : 19 Qt On : 06/14/23 15:55
Acq On : 06/14/23 15:43 Misc : S,5G!3 Qt Upd On: 05/19/23 17:55

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-14-23\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.161	96	856268	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.878	117	827954	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.187	152	555572	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.737	111	251927	32.79	ug/l	0.00
Spiked Amount 30.000			Recovery =	109.30%		
39) 1,2-Dichloroethane-d4	4.958	67	124760	28.84	ug/l	0.00
Spiked Amount 30.000			Recovery =	96.13%		
66) Toluene-d8	6.068	98	975086	31.06	ug/l	0.00
Spiked Amount 30.000			Recovery =	103.53%		
76) Bromofluorobenzene	7.524	174	453378	34.43	ug/l	0.00
Spiked Amount 30.000			Recovery =	114.77%		
Target Compounds						Qvalue
15) Methylene Chloride	3.360	84	23205m	6.7477	ug/l	
25) Methyl Acetate	3.261	43	10179m	4.5713	ug/l	
No Library Search Compounds Found						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

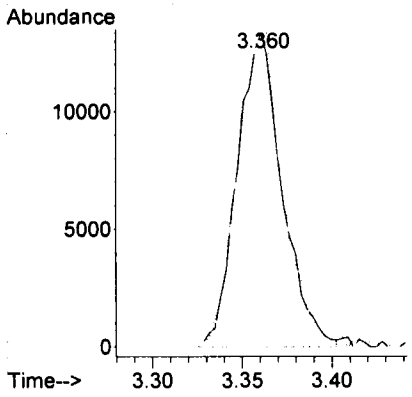

Abundance
TIC: 1M174866.D\data.ms
Quant QT Reviewed
SampleID : AD38537-001
Data File: 1M174866.D
Acq On : 06/14/23 15:43
Operator : sg
Sam Mult : 1 Vial# : 19
Misc : S,5G13
Qt Meth : 1M_S0518s.M
Qt On : 06/14/23 15:55
Qt Upd On: 05/19/23 17:55
Methyl Acetate
Methylene Chloride,T
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

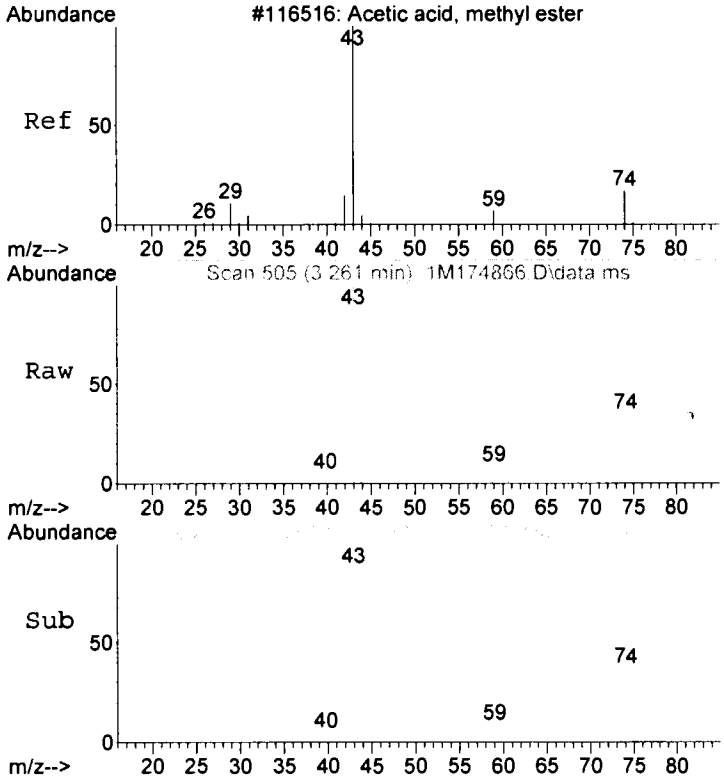


#15
Methylene Chloride
Concen: 6.75 ug/l m
RT: 3.360 min Scan# 536
Delta R.T. 0.016 min
Lab File: 1M174866.D
Acq: 14 Jun 2023 15:43

Tgt Ion: 84 Resp: 23205

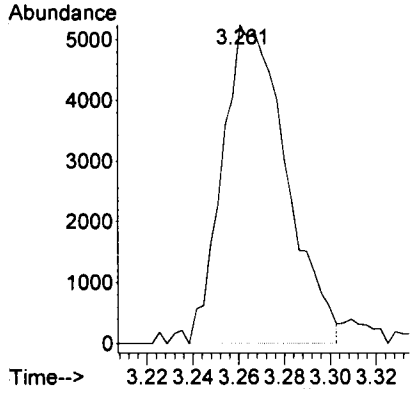
Ion	Ratio	Lower	Upper
84	100		
49	100.6	41.5	165.9
86	57.5	26.6	106.6





#25
Methyl Acetate
Concen: 4.57 ug/l m
RT: 3.261 min Scan# 505
Delta R.T. 0.009 min
Lab File: 1M174866.D
Acq: 14 Jun 2023 15:43

Tgt Ion: 43 Resp: 10179



LSC Area Percent Report

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-14-23\
Data File : 1M174866.D
Acq On : 14 Jun 2023 15:43
Operator : sg
Sample : AD38537-001
Misc : S,5G!3
ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Title : @GCMS_1,ug,624,8260

Signal : TIC: 1M174866.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.360	525	536	551	rBV3	49856	90391	2.81%	0.618%
2	3.441	551	561	577	rVB5	33144	66499	2.06%	0.455%
3	4.299	815	828	838	rBV2	45211	80588	2.50%	0.551%
4	4.737	951	964	980	rBV	620657	851681	26.43%	5.826%
5	4.958	1024	1033	1046	rBV	522754	670209	20.80%	4.585%
6	5.161	1085	1096	1111	rBV	1432976	1787733	55.48%	12.230%
7	6.068	1367	1378	1394	rBV	2181452	2572027	79.82%	17.595%
8	6.878	1618	1630	1646	rBV	2117171	2494641	77.42%	17.065%
9	7.524	1819	1831	1845	rBV	2277291	2613961	81.12%	17.882%
10	8.119	2007	2016	2027	rBV3	133827	168062	5.22%	1.150%
11	8.187	2027	2037	2050	rVB	2804540	3222374	100.00%	22.044%

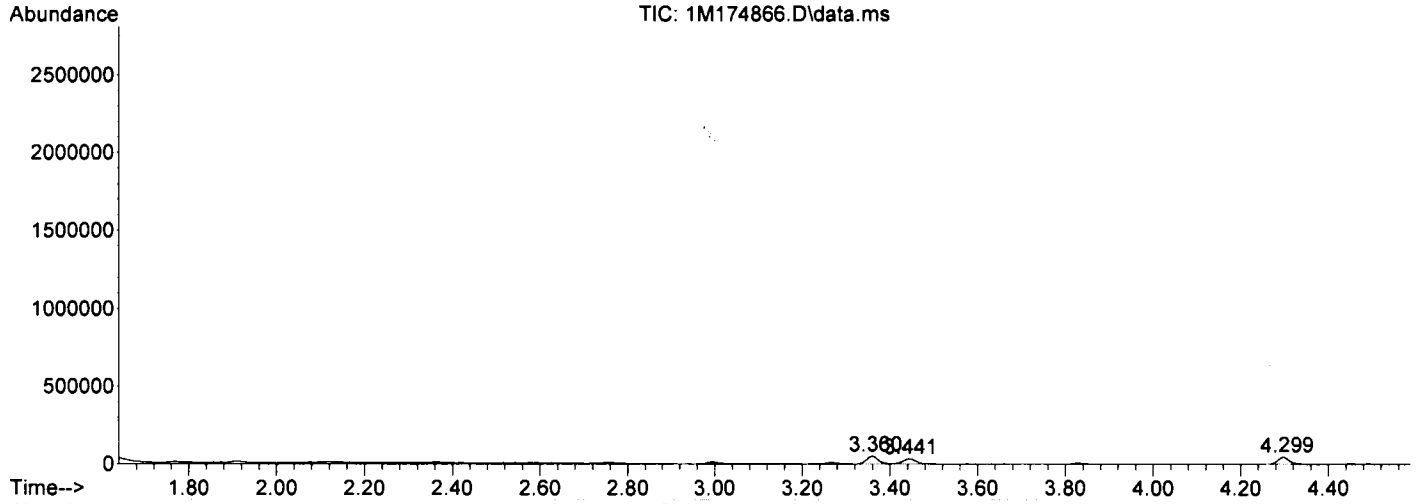
Sum of corrected areas: 14618166

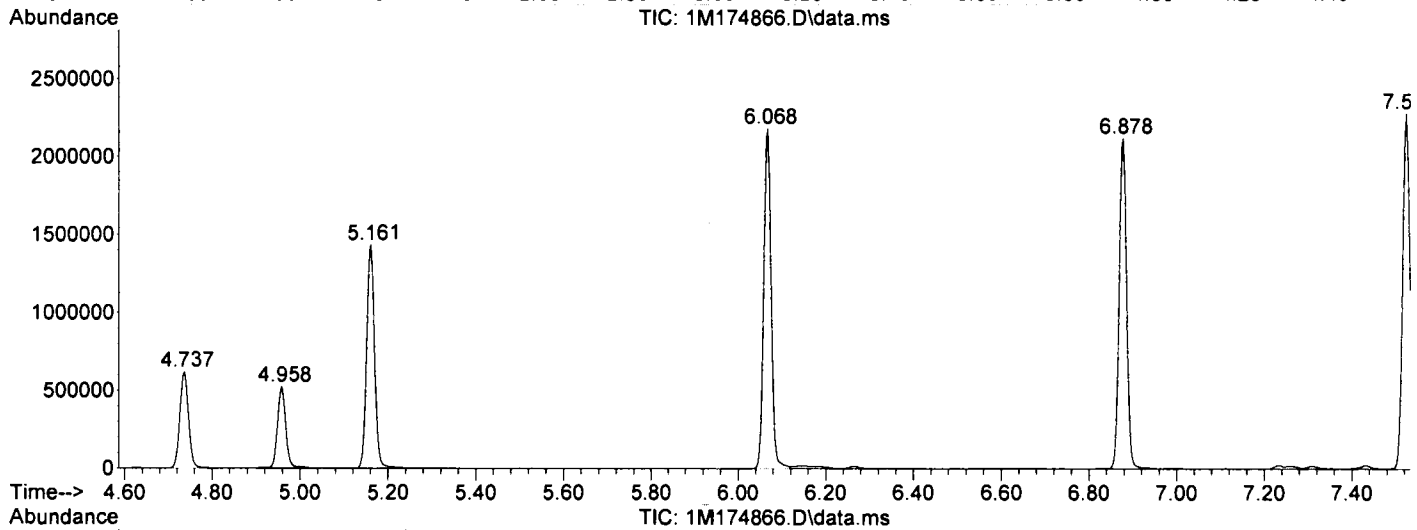
LSC Report - Integrated Chromatogram

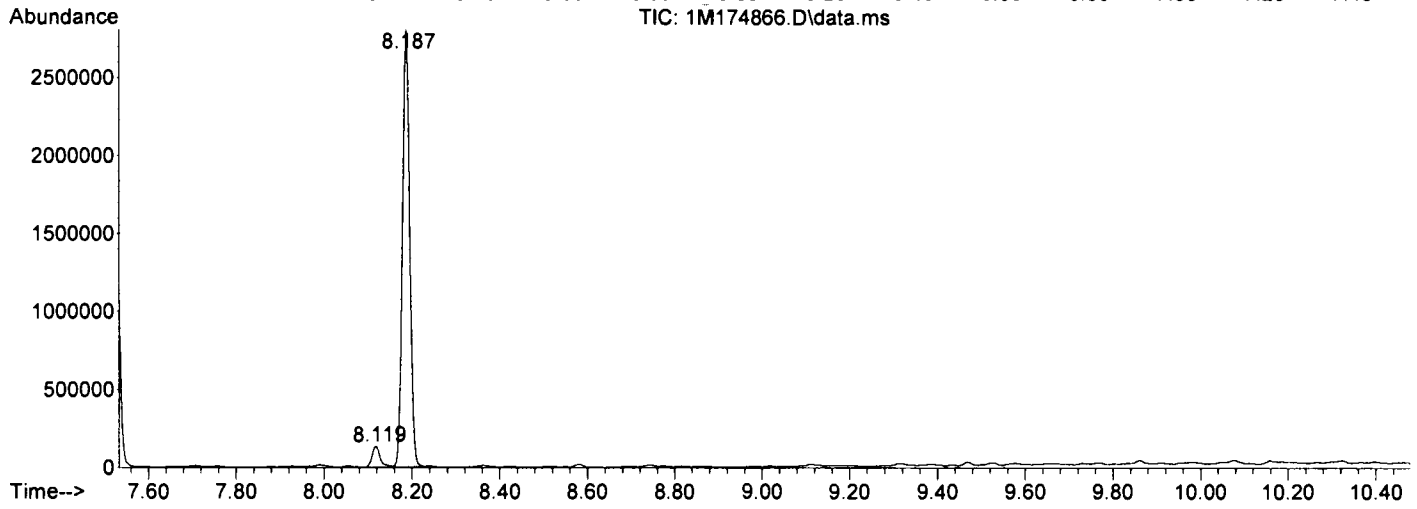
Data Path : G:\GcMsData\2023\GCMS_1\Data\06-14-23\
Data File : 1M174866.D
Acq On : 14 Jun 2023 15:43
Operator : sg
Sample : AD38537-001
Misc : S,5G!3
ALS Vial : 19 Sample Multiplier: 1

Quant Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Quant Title : @GCMS_1,ug,624,8260

TIC Library : G:\GCMSDATA\WILEY138.L
TIC Integration Parameters: LSCINT.P







Tentatively Identified Compound (LSC) summary

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-14-23\
Data File : 1M174866.D
Acq On : 14 Jun 2023 15:43
Operator : sg
Sample : AD38537-001
Misc : S,5G!3
ALS Vial : 19 Sample Multiplier: 1

Quant Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Quant Title : @GCMS_1,ug,624,8260

TIC Library : G:\GCMSDATA\WILEY138.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard ExpRT	Internal Standard ActRt	Internal Standard Resp	Internal Standard Conc

No Library Search Compounds Detected
****

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38537-002
Client Id: SB-3 0-5
Data File: 1M174836.D
Analysis Date: 06/14/23 05:04
Date Rec/Extracted: 06/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5.76g
Final Vol: NA
Dilution: 0.868
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	56-23-5	Carbon Tetrachloride	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	U	75-00-3	Chloroethane	0.0020	U
79-00-5	1,1,2-Trichloroethane	0.0020	U	67-66-3	Chloroform	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	74-87-3	Chloromethane	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	156-59-2	cis-1,2-Dichloroethene	0.0020	U
87-61-6	1,2,3-Trichlorobenzene	0.0020	U	10061-01-5	cis-1,3-Dichloropropene	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	U	110-82-7	Cyclohexane	0.0020	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
106-93-4	1,2-Dibromoethane	0.00063	U	75-71-8	Dichlorodifluoromethane	0.0020	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	100-41-4	Ethylbenzene	0.00098	U
107-06-2	1,2-Dichloroethane	0.0020	U	98-82-8	Isopropylbenzene	0.00098	U
78-87-5	1,2-Dichloropropane	0.0020	U	79601-23-1	m&p-Xylenes	0.0014	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	79-20-9	Methyl Acetate	0.0020	U
106-46-7	1,4-Dichlorobenzene	0.0020	U	108-87-2	Methylcyclohexane	0.0020	U
123-91-1	1,4-Dioxane	0.098	U	75-09-2	Methylene Chloride	0.0020	U
78-93-3	2-Butanone	0.0020	U	1634-04-4	Methyl-t-butyl ether	0.00098	U
591-78-6	2-Hexanone	0.0020	U	95-47-6	o-Xylene	0.00098	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	100-42-5	Styrene	0.0020	U
67-64-1	Acetone	0.0098	U	127-18-4	Tetrachloroethene	0.0020	U
71-43-2	Benzene	0.00098	U	108-88-3	Toluene	0.00098	U
74-97-5	Bromochloromethane	0.0020	U	156-60-5	trans-1,2-Dichloroethene	0.0020	U
75-27-4	Bromodichloromethane	0.0020	U	10061-02-6	trans-1,3-Dichloropropene	0.0020	U
75-25-2	Bromoform	0.0020	U	79-01-6	Trichloroethene	0.0020	U
74-83-9	Bromomethane	0.0020	U	75-69-4	Trichlorofluoromethane	0.0020	U
75-15-0	Carbon Disulfide	0.0020	U	75-01-4	Vinyl Chloride	0.0020	U
1330-20-7	Xylenes (Total)	0.00098	U				

Worksheet #: 696057

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1e

ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AD38537-002	Matrix: Soil
Client Id: SB-3 0-5	Initial Vol: 5.76g
Data File: 1M174836.D	Final Vol: NA
Analysis Date: 06/14/23 05:04	Dilution: 0.868
Date Rec/Extracted: 06/13/23-NA	Solids: 89
	Method: EPA 8260D

Units: mg/Kg

	Cas #	Compound	RT	Conc
1		No Unknown Compounds Detected	0.00	0 J

Worksheet #: 696057

Total Tentatively Identified Concentration 0

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

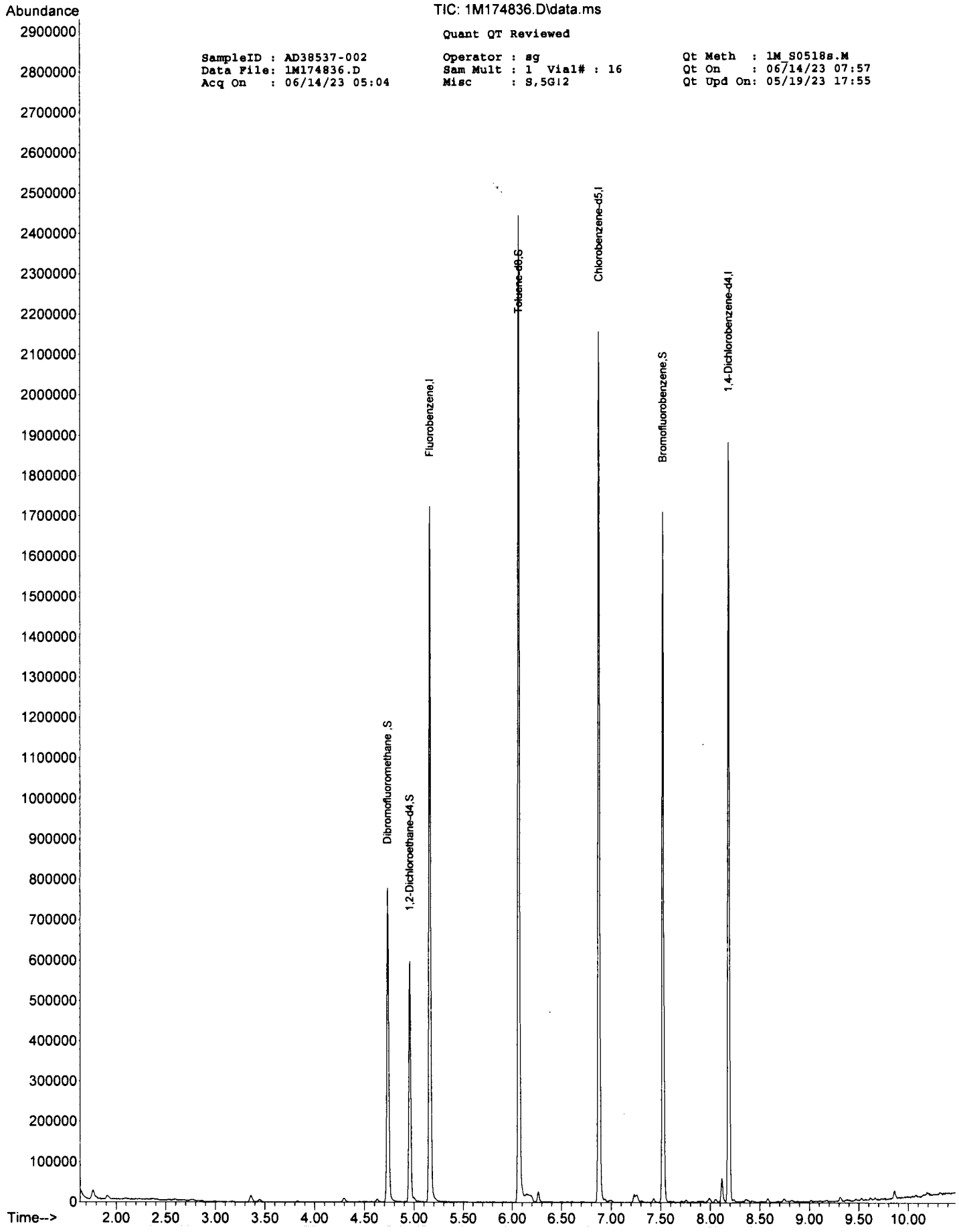
Quantitation Report (QT Reviewed)

SampleID : AD38537-002 Operator : sg Qt Meth : 1M_S0518s.M
Data File: 1M174836.D Sam Mult : 1 Vial# : 16 Qt On : 06/14/23 07:57
Acq On : 06/14/23 05:04 Misc : S,5G!2 Qt Upd On: 05/19/23 17:55

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.161	96	1105890	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.878	117	922311	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.187	152	391218	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.733	111	322533	32.51	ug/l	0.00
Spiked Amount 30.000			Recovery = 108.37%			
39) 1,2-Dichloroethane-d4	4.959	67	144598	25.88	ug/l	0.00
Spiked Amount 30.000			Recovery = 86.27%			
66) Toluene-d8	6.068	98	1156113	33.06	ug/l	0.00
Spiked Amount 30.000			Recovery = 110.20%			
76) Bromofluorobenzene	7.524	174	369254	39.83	ug/l	0.00
Spiked Amount 30.000			Recovery = 132.77%			
Target Compounds						Qvalue
No Library Search Compounds Found						

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 1M174836.D\data.ms
Quant QT Reviewed
SampleID : AD38537-002
Data File: 1M174836.D
Acq On : 06/14/23 05:04
Operator : sg
Sam Mult : 1 Vial# : 16
Misc : S,5G12
Qt Meth : 1M_S0518s.M
Qt On : 06/14/23 07:57
Qt Upd On: 05/19/23 17:55
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

LSC Area Percent Report

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174836.D
Acq On : 14 Jun 2023 05:04
Operator : sg
Sample : AD38537-002
Misc : S,5G!2
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Title : @GCMS_1,ug,624,8260

Signal : TIC: 1M174836.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.769	29	41	52	rBV	22936	43686	1.49%	0.317%
2	4.737	953	964	985	rBV	778142	1075276	36.74%	7.803%
3	4.959	1023	1033	1044	rBV	597999	778412	26.60%	5.648%
4	5.161	1082	1096	1116	rBV	1722786	2177189	74.39%	15.798%
5	6.068	1367	1378	1394	rBV	2442288	2926609	100.00%	21.236%
6	6.878	1619	1630	1645	rBV	2154910	2555226	87.31%	18.542%
7	7.524	1816	1831	1846	rBV	1707846	1984079	67.79%	14.397%
8	8.119	2007	2016	2028	rBV5	59322	76383	2.61%	0.554%
9	8.187	2028	2037	2049	rBV	1878768	2164244	73.95%	15.704%

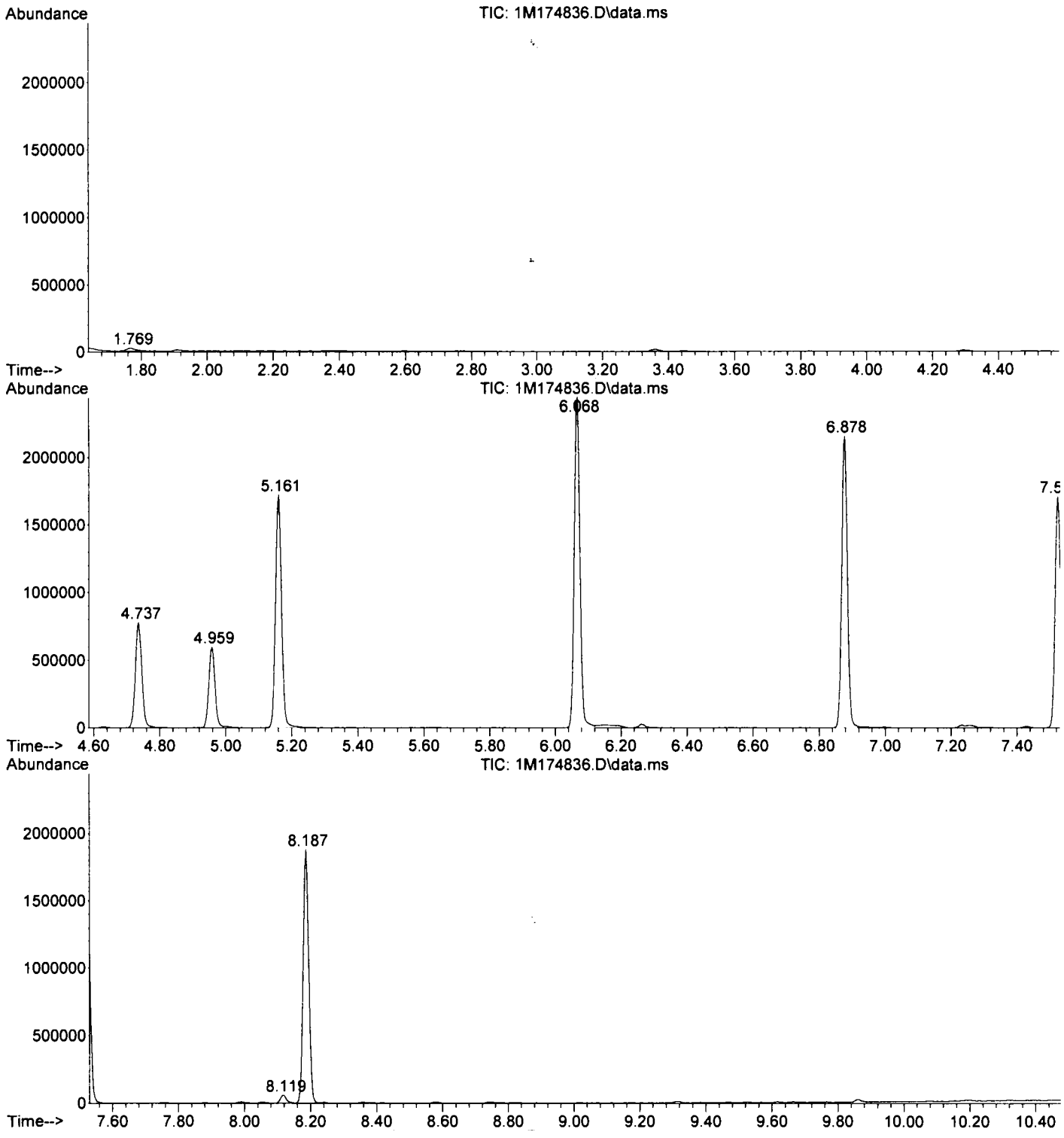
Sum of corrected areas: 13781104

LSC Report - Integrated Chromatogram

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174836.D
Acq On : 14 Jun 2023 05:04
Operator : sg
Sample : AD38537-002
Misc : S,5G!2
ALS Vial : 16 Sample Multiplier: 1

Quant Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Quant Title : @GCMS_1,ug,624,8260

TIC Library : G:\GCMSDATA\WILEY138.L
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound (LSC) summary

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174836.D
Acq On : 14 Jun 2023 05:04
Operator : sg
Sample : AD38537-002
Misc : S,5G!2
ALS Vial : 16 Sample Multiplier: 1

Quant Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Quant Title : @GCMS_1,ug,624,8260

TIC Library : G:\GCMSDATA\WILEY138.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard ExpRT	Internal Standard ActRt	Internal Standard Resp	Internal Standard Conc

No Library Search Compounds Detected

****

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38537-003
Client Id: SB-4 10-12.5
Data File: 1M174837.D
Analysis Date: 06/14/23 05:25
Date Rec/Extracted: 06/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 7.04g
Final Vol: NA
Dilution: 0.710
Solids: 84

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0017	U	56-23-5	Carbon Tetrachloride	0.0017	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0017	U	108-90-7	Chlorobenzene	0.0017	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0017	U	75-00-3	Chloroethane	0.0017	U
79-00-5	1,1,2-Trichloroethane	0.0017	U	67-66-3	Chloroform	0.0017	U
75-34-3	1,1-Dichloroethane	0.0017	U	74-87-3	Chloromethane	0.0017	U
75-35-4	1,1-Dichloroethene	0.0017	U	156-59-2	cis-1,2-Dichloroethene	0.0017	U
87-61-6	1,2,3-Trichlorobenzene	0.0017	U	10061-01-5	cis-1,3-Dichloropropene	0.0017	U
120-82-1	1,2,4-Trichlorobenzene	0.0017	U	110-82-7	Cyclohexane	0.0017	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0017	U	124-48-1	Dibromochloromethane	0.0017	U
106-93-4	1,2-Dibromoethane	0.00055	U	75-71-8	Dichlorodifluoromethane	0.0017	U
95-50-1	1,2-Dichlorobenzene	0.0017	U	100-41-4	Ethylbenzene	0.00085	U
107-06-2	1,2-Dichloroethane	0.0017	U	98-82-8	Isopropylbenzene	0.00085	U
78-87-5	1,2-Dichloropropane	0.0017	U	79601-23-1	m&p-Xylenes	0.0012	U
541-73-1	1,3-Dichlorobenzene	0.0017	U	79-20-9	Methyl Acetate	0.0017	U
106-46-7	1,4-Dichlorobenzene	0.0017	U	108-87-2	Methylcyclohexane	0.0017	U
123-91-1	1,4-Dioxane	0.085	U	**75-09-2**	**Methylene Chloride**	**0.0017**	**0.0024**
78-93-3	**2-Butanone**	**0.0017**	**0.0072**	1634-04-4	Methyl-t-butyl ether	0.00085	U
591-78-6	2-Hexanone	0.0017	U	95-47-6	o-Xylene	0.00085	U
108-10-1	4-Methyl-2-Pentanone	0.0017	U	100-42-5	Styrene	0.0017	U
67-64-1	**Acetone**	**0.0085**	**0.035**	127-18-4	Tetrachloroethene	0.0017	U
71-43-2	Benzene	0.00085	U	108-88-3	Toluene	0.00085	U
74-97-5	Bromochloromethane	0.0017	U	156-60-5	trans-1,2-Dichloroethene	0.0017	U
75-27-4	Bromodichloromethane	0.0017	U	10061-02-6	trans-1,3-Dichloropropene	0.0017	U
75-25-2	Bromoform	0.0017	U	79-01-6	Trichloroethene	0.0017	U
74-83-9	Bromomethane	0.0017	U	75-69-4	Trichlorofluoromethane	0.0017	U
75-15-0	**Carbon Disulfide**	**0.0017**	**0.0019**	75-01-4	Vinyl Chloride	0.0017	U
1330-20-7	Xylenes (Total)	0.00085	U				

Worksheet #: 696057

Total Target Concentration 0.046

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1e

ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AD38537-003
Client Id: SB-4 10-12.5
Data File: 1M174837.D
Analysis Date: 06/14/23 05:25
Date Rec/Extracted: 06/13/23-NA

Matrix: Soil
Initial Vol: 7.04g
Final Vol: NA
Dilution: 0.710
Solids: 84
Method: EPA 8260D

Units: mg/Kg

	Cas #	Compound	RT	Conc
1		No Unknown Compounds Detected	0.00	0 J

Worksheet #: 696057

Total Tentatively Identified Concentration 0

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

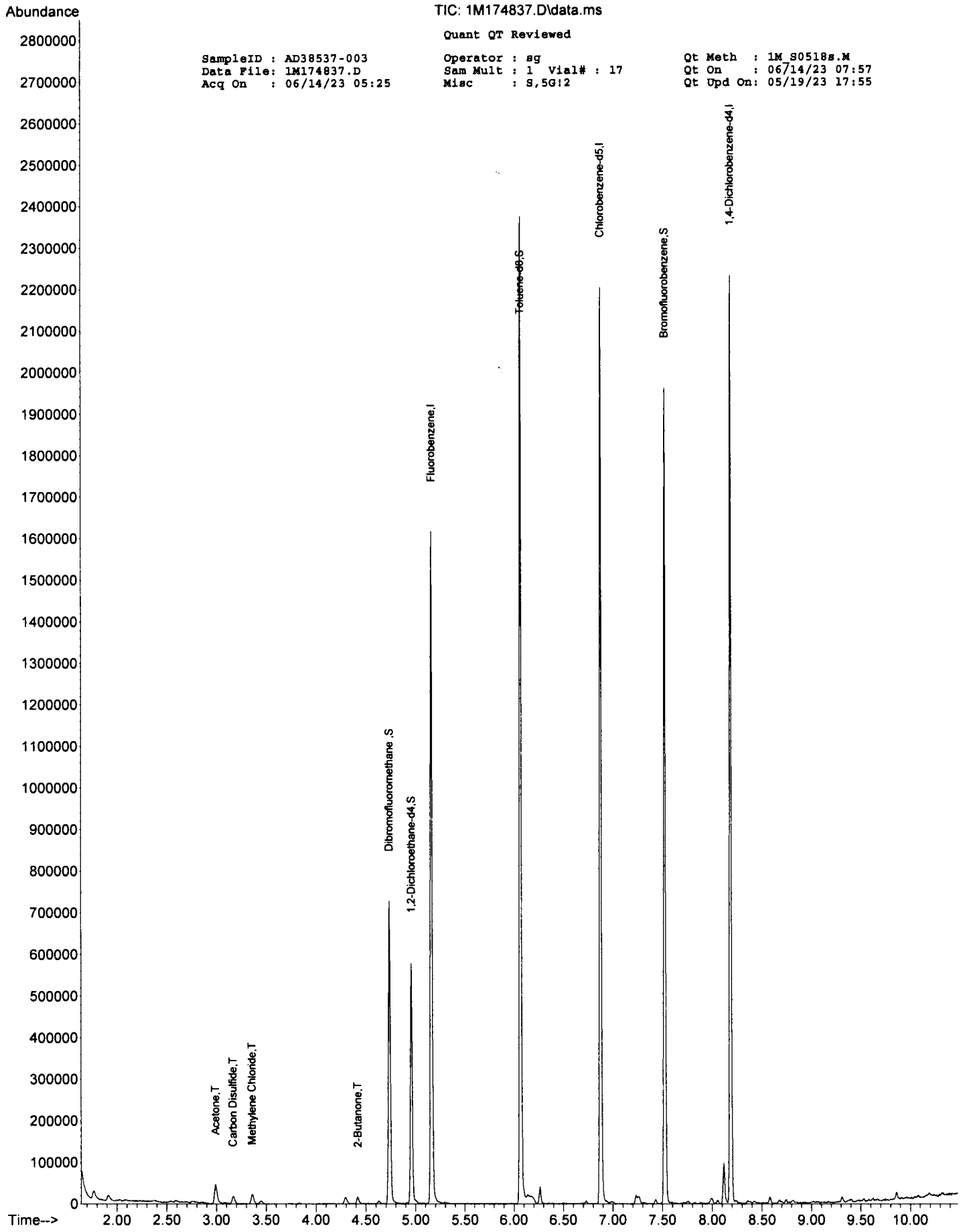
Quantitation Report (QT Reviewed)

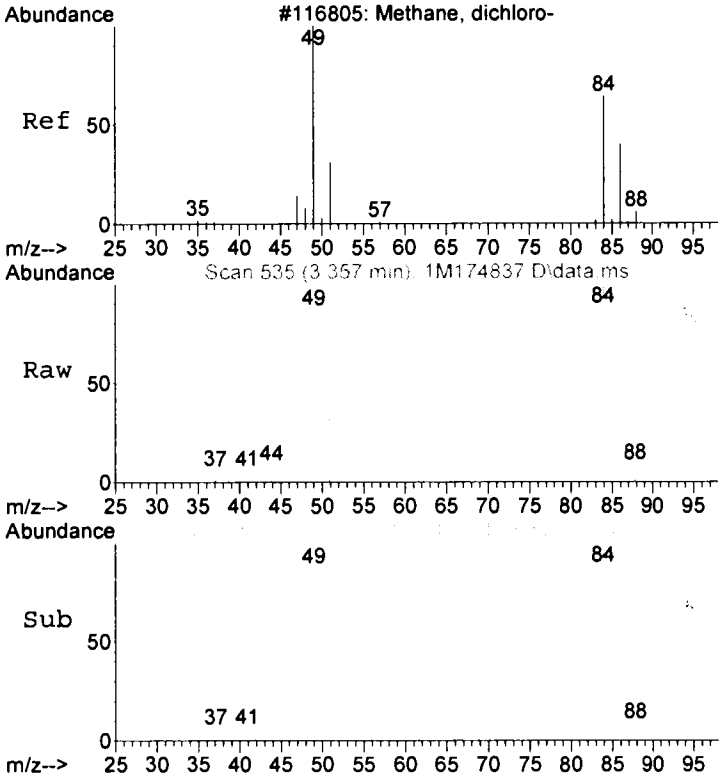
SampleID : AD38537-003 Operator : sg Qt Meth : 1M_S0518s.M
Data File: 1M174837.D Sam Mult : 1 Vial# : 17 Qt On : 06/14/23 07:57
Acq On : 06/14/23 05:25 Misc : S,5G!2 Qt Upd On: 05/19/23 17:55

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.161	96	1022864	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.878	117	947339	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.187	152	464184	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.737	111	303702	33.10	ug/l	0.00
Spiked Amount 30.000			Recovery =	110.33%		
39) 1,2-Dichloroethane-d4	4.959	67	140534	27.19	ug/l	0.00
Spiked Amount 30.000			Recovery =	90.63%		
66) Toluene-d8	6.068	98	1115964	31.07	ug/l	0.00
Spiked Amount 30.000			Recovery =	103.57%		
76) Bromofluorobenzene	7.524	174	407367	37.03	ug/l	0.00
Spiked Amount 30.000			Recovery =	123.43%		
Target Compounds						Qvalue
15) Methylene Chloride	3.357	84	11524m	2.8052	ug/l	
19) Acetone	2.991	43	55887m	41.9132	ug/l	
20) Carbon Disulfide	3.168	76	24918m	2.2931	ug/l	
41) 2-Butanone	4.418	43	14069m	8.5324	ug/l	
No Library Search Compounds Found						

(#) = qualifier out of range (m) = manual integration (+) = signals summed

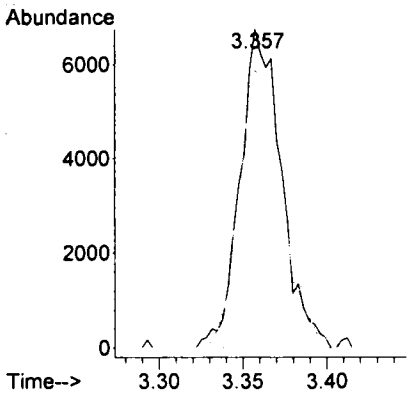

Abundance
TIC: 1M174837.D\data.ms
Quant QT Reviewed
SampleID : AD38537-003
Data File: 1M174837.D
Acq On : 06/14/23 05:25
Operator : sg
Sam Mult : 1 Vial# : 17
Misc : S,5G!2
Qt Meth : 1M_S0518s.M
Qt On : 06/14/23 07:57
Qt Upd On: 05/19/23 17:55
Acetone,T
Carbon Disulfide,T
Methylene Chloride,T
2-Butanone,T
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

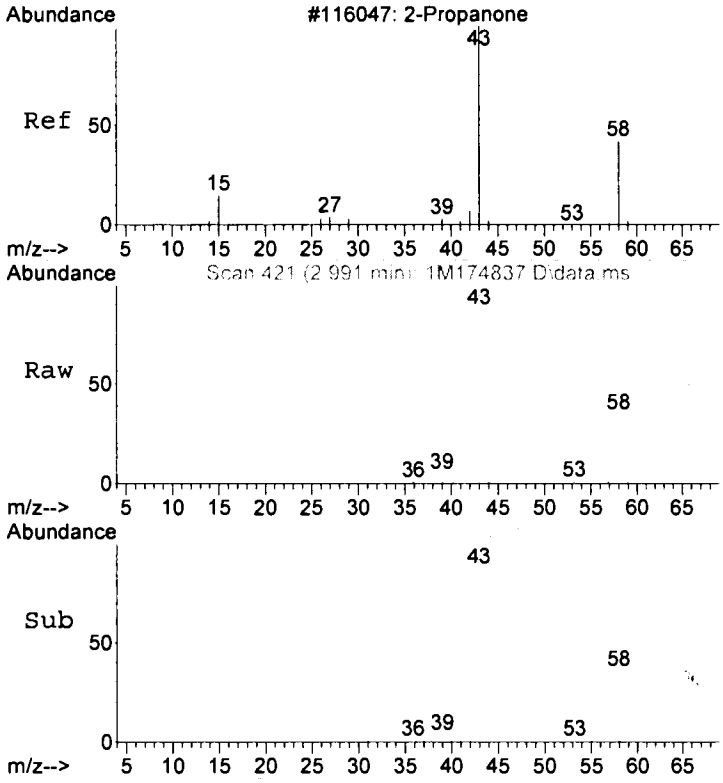


#15
Methylene Chloride
Concen: 2.81 ug/l m
RT: 3.357 min Scan# 535
Delta R.T. 0.013 min
Lab File: 1M174837.D
Acq: 14 Jun 2023 05:25

Tgt Ion: 84 Resp: 11524

Ion	Ratio	Lower	Upper
84	100		
49	87.2	41.5	165.9
86	63.5	26.6	106.6

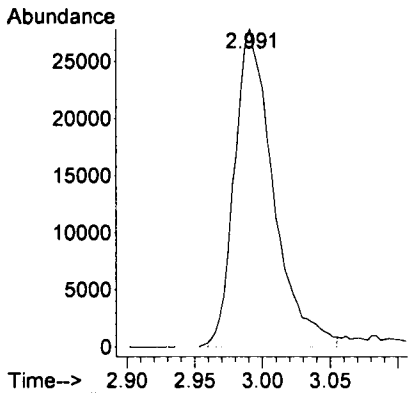


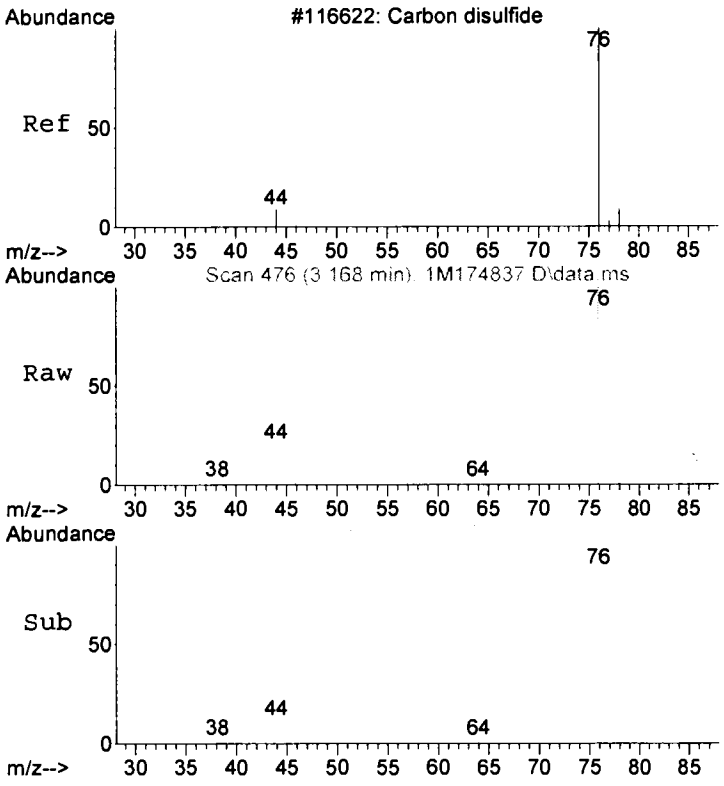


#19
Acetone
Concen: 41.91 ug/l m
RT: 2.991 min Scan# 421
Delta R.T. 0.013 min
Lab File: 1M174837.D
Acq: 14 Jun 2023 05:25

Tgt Ion: 43 Resp: 55887

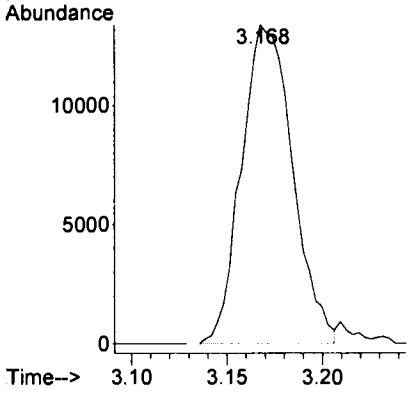
Ion	Ratio	Lower	Upper
43	100		
58	35.1	0.0	78.7

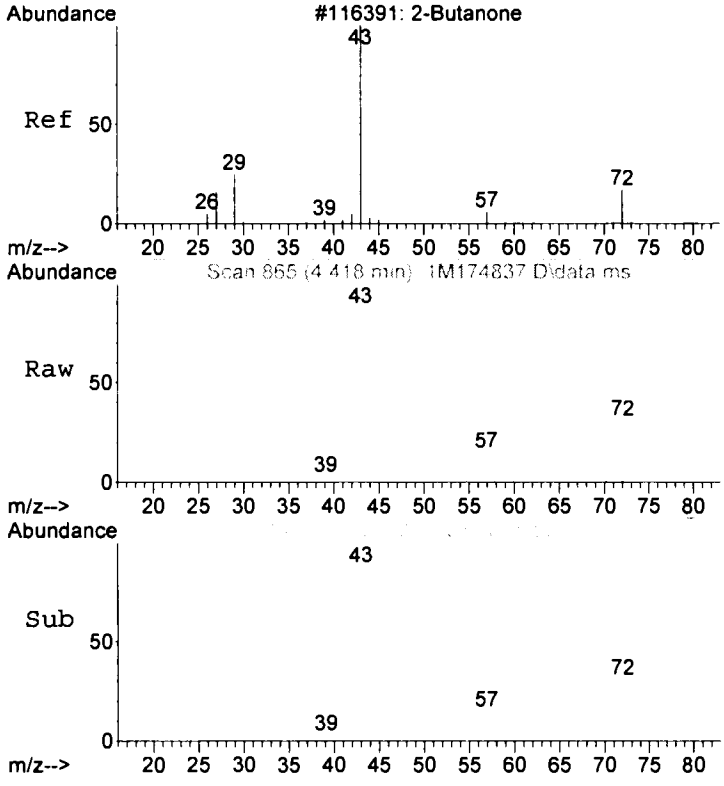




#20
Carbon Disulfide
Concen: 2.29 ug/l m
RT: 3.168 min Scan# 476
Delta R.T. 0.010 min
Lab File: 1M174837.D
Acq: 14 Jun 2023 05:25

Tgt Ion: 76 Resp: 24918

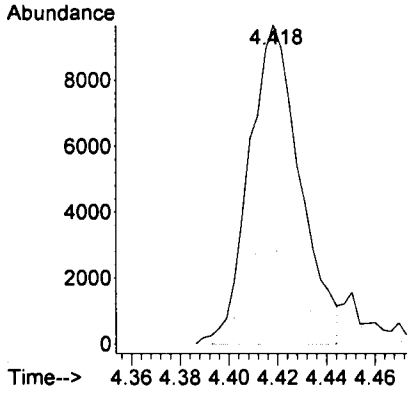




#41
2-Butanone
Concen: 8.53 ug/l m
RT: 4.418 min Scan# 865
Delta R.T. 0.010 min
Lab File: 1M174837.D
Acq: 14 Jun 2023 05:25

Tgt Ion: 43 Resp: 14069

Ion	Ratio	Lower	Upper
43	100		
72	31.4	0.0	130.0



LSC Area Percent Report

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174837.D
Acq On : 14 Jun 2023 05:25
Operator : sg
Sample : AD38537-003
Misc : S,5G!2
ALS Vial : 17 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Title : @GCMS_1,ug,624,8260

Signal : TIC: 1M174837.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.991	409	421	438	rBV	46746	90402	3.20%	0.630%
2	4.737	952	964	981	rBV2	727649	1010733	35.83%	7.046%
3	4.959	1022	1033	1054	rBV	579433	757091	26.84%	5.278%
4	5.161	1083	1096	1121	rBV	1615930	2039306	72.29%	14.216%
5	6.068	1365	1378	1394	rBV	2375020	2821055	100.00%	19.666%
6	6.264	1431	1439	1447	rBV2	40463	47799	1.69%	0.333%
7	6.878	1620	1630	1646	rBV	2202968	2618205	92.81%	18.252%
8	7.524	1822	1831	1845	rBV	1959726	2257584	80.03%	15.738%
9	8.119	2007	2016	2027	rBV2	98123	122336	4.34%	0.853%
10	8.187	2027	2037	2049	rVV	2228740	2580571	91.48%	17.989%

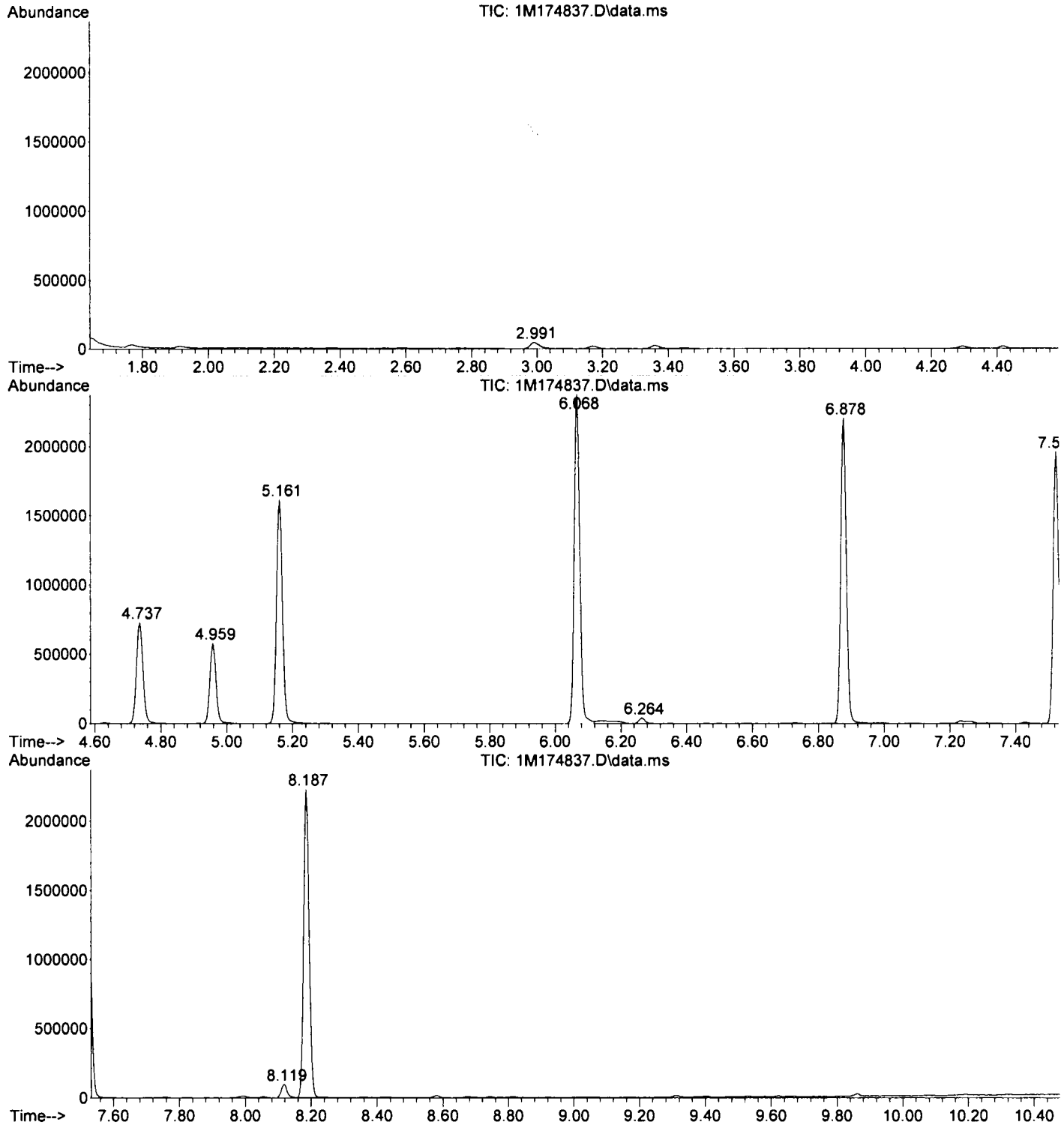
Sum of corrected areas: 14345082

LSC Report - Integrated Chromatogram

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174837.D
Acq On : 14 Jun 2023 05:25
Operator : sg
Sample : AD38537-003
Misc : S,5G!2
ALS Vial : 17 Sample Multiplier: 1

Quant Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Quant Title : @GCMS_1,ug,624,8260

TIC Library : G:\GCMSDATA\WILEY138.L
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound (LSC) summary

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174837.D
Acq On : 14 Jun 2023 05:25
Operator : sg
Sample : AD38537-003
Misc : S,5G!2
ALS Vial : 17 Sample Multiplier: 1

Quant Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Quant Title : @GCMS_1,ug,624,8260

TIC Library : G:\GCMSDATA\WILEY138.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard ExpRT	Internal Standard ActRt	Internal Standard Resp	Internal Standard Conc

No Library Search Compounds Detected
****

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38537-004
Client Id: SB-5 5-10
Data File: 1M174838.D
Analysis Date: 06/14/23 05:46
Date Rec/Extracted: 06/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5.18g
Final Vol: NA
Dilution: 0.965
Solids: 80

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0024	U	56-23-5	Carbon Tetrachloride	0.0024	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0024	U	108-90-7	Chlorobenzene	0.0024	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0024	U	75-00-3	Chloroethane	0.0024	U
79-00-5	1,1,2-Trichloroethane	0.0024	U	67-66-3	Chloroform	0.0024	U
75-34-3	1,1-Dichloroethane	0.0024	U	74-87-3	Chloromethane	0.0024	U
75-35-4	1,1-Dichloroethene	0.0024	U	156-59-2	cis-1,2-Dichloroethene	0.0024	U
87-61-6	1,2,3-Trichlorobenzene	0.0024	U	10061-01-5	cis-1,3-Dichloropropene	0.0024	U
120-82-1	1,2,4-Trichlorobenzene	0.0024	U	110-82-7	Cyclohexane	0.0024	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0024	U	124-48-1	Dibromochloromethane	0.0024	U
106-93-4	1,2-Dibromoethane	0.00078	U	75-71-8	Dichlorodifluoromethane	0.0024	U
95-50-1	1,2-Dichlorobenzene	0.0024	U	100-41-4	Ethylbenzene	0.0012	U
107-06-2	1,2-Dichloroethane	0.0024	U	98-82-8	Isopropylbenzene	0.0012	U
78-87-5	1,2-Dichloropropane	0.0024	U	79601-23-1	m&p-Xylenes	0.0018	U
541-73-1	1,3-Dichlorobenzene	0.0024	U	79-20-9	Methyl Acetate	0.0024	U
106-46-7	1,4-Dichlorobenzene	0.0024	U	108-87-2	Methylcyclohexane	0.0024	U
123-91-1	1,4-Dioxane	0.12	U	75-09-2	Methylene Chloride	0.0024	U
78-93-3	2-Butanone	0.0024	U	1634-04-4	Methyl-t-butyl ether	0.0012	U
591-78-6	2-Hexanone	0.0024	U	95-47-6	o-Xylene	0.0012	U
108-10-1	4-Methyl-2-Pentanone	0.0024	U	100-42-5	Styrene	0.0024	U
67-64-1	Acetone	0.012	U	127-18-4	Tetrachloroethene	0.0024	U
71-43-2	Benzene	0.0012	U	108-88-3	Toluene	0.0012	U
74-97-5	Bromochloromethane	0.0024	U	156-60-5	trans-1,2-Dichloroethene	0.0024	U
75-27-4	Bromodichloromethane	0.0024	U	10061-02-6	trans-1,3-Dichloropropene	0.0024	U
75-25-2	Bromoform	0.0024	U	79-01-6	Trichloroethene	0.0024	U
74-83-9	Bromomethane	0.0024	U	75-69-4	Trichlorofluoromethane	0.0024	U
75-15-0	Carbon Disulfide	0.0024	U	75-01-4	Vinyl Chloride	0.0024	U
1330-20-7	Xylenes (Total)	0.0012	U				

Worksheet #: 696057

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1e

ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AD38537-004	Matrix: Soil
Client Id: SB-5 5-10	Initial Vol: 5.18g
Data File: 1M174838.D	Final Vol: NA
Analysis Date: 06/14/23 05:46	Dilution: 0.965
Date Rec/Extracted: 06/13/23-NA	Solids: 80
	Method: EPA 8260D

Units: mg/Kg

	Cas #	Compound	RT	Conc
1		No Unknown Compounds Detected	0.00	0 J

Worksheet #: 696057

Total Tentatively Identified Concentration 0

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Quantitation Report (QT Reviewed)

SampleID : AD38537-004 Operator : sg Qt Meth : 1M_S0518s.M
Data File: 1M174838.D Sam Mult : 1 Vial# : 18 Qt On : 06/14/23 07:57
Acq On : 06/14/23 05:46 Misc : S,5G!2 Qt Upd On: 05/19/23 17:55

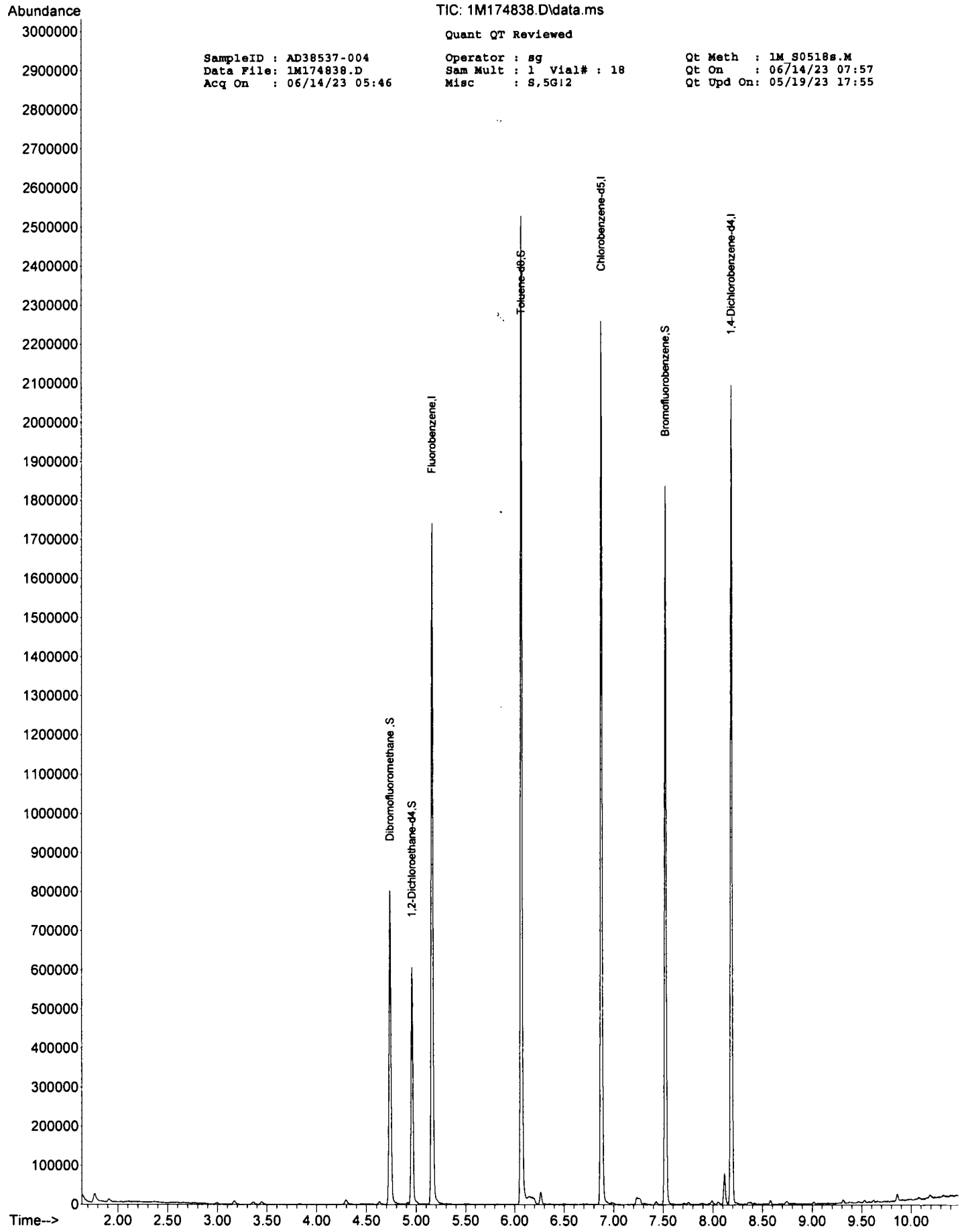
Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.161	96	1098070	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.878	117	969151	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.187	152	432499	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.737	111	328727	33.37	ug/l	0.00
Spiked Amount 30.000			Recovery = 111.23%			
39) 1,2-Dichloroethane-d4	4.959	67	147703	26.62	ug/l	0.00
Spiked Amount 30.000			Recovery = 88.73%			
66) Toluene-d8	6.068	98	1197174	32.58	ug/l	0.00
Spiked Amount 30.000			Recovery = 108.60%			
76) Bromofluorobenzene	7.524	174	394254	38.46	ug/l	0.00
Spiked Amount 30.000			Recovery = 128.20%			

Target Compounds Qvalue

No Library Search Compounds Found

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 1M174838.D\data.ms
Quant QT Reviewed
SampleID : AD38537-004
Data File: 1M174838.D
Acq On : 06/14/23 05:46
Operator : sg
Sam Mult : 1 Vial# : 18
Misc : S,5G12
Qt Meth : 1M_S0518s.M
Qt On : 06/14/23 07:57
Qt Upd On: 05/19/23 17:55
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

LSC Area Percent Report

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174838.D
Acq On : 14 Jun 2023 05:46
Operator : sg
Sample : AD38537-004
Misc : S,5G!2
ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Title : @GCMS_1,ug,624,8260

Signal : TIC: 1M174838.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.737	952	964	981	rBV	802502	1100228	36.46%	7.662%
2	4.959	1023	1033	1046	rBV	604497	778047	25.78%	5.418%
3	5.161	1084	1096	1117	rBV	1740814	2168606	71.86%	15.102%
4	6.068	1368	1378	1393	rBV	2525599	3017826	100.00%	21.017%
5	6.878	1619	1630	1646	rBV	2257386	2676740	88.70%	18.641%
6	7.524	1817	1831	1845	rBV	1835773	2121504	70.30%	14.774%
7	8.119	2005	2016	2023	rBV3	78648	95253	3.16%	0.663%
8	8.187	2026	2037	2049	rBV	2091811	2401055	79.56%	16.721%

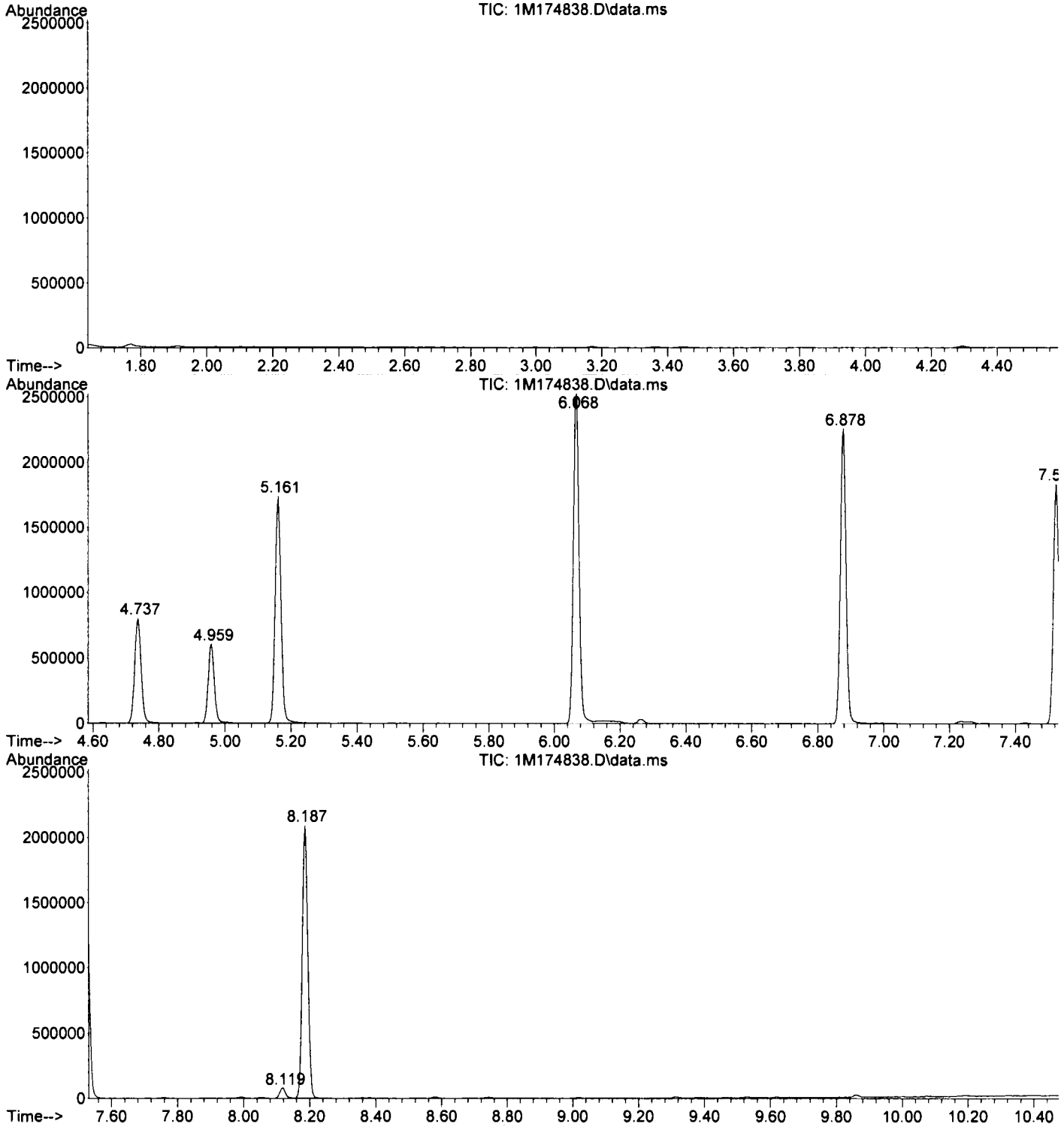
Sum of corrected areas: 14359259

LSC Report - Integrated Chromatogram

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174838.D
Acq On : 14 Jun 2023 05:46
Operator : sg
Sample : AD38537-004
Misc : S,5G!2
ALS Vial : 18 Sample Multiplier: 1

Quant Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Quant Title : @GCMS_1,ug,624,8260

TIC Library : G:\GCMSDATA\WILEY138.L
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound (LSC) summary

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174838.D
Acq On : 14 Jun 2023 05:46
Operator : sg
Sample : AD38537-004
Misc : S,5G!2
ALS Vial : 18 Sample Multiplier: 1

Quant Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Quant Title : @GCMS_1,ug,624,8260

TIC Library : G:\GCMSDATA\WILEY138.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	# ExpRT	ActRt	Resp	Conc

No Library Search Compounds Detected
****

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38537-005
Client Id: SB-6 10-11
Data File: 1M174845.D
Analysis Date: 06/14/23 08:13
Date Rec/Extracted: 06/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 6.77g
Final Vol: NA
Dilution: 0.739
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0018	U	56-23-5	Carbon Tetrachloride	0.0018	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0018	U	108-90-7	Chlorobenzene	0.0018	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0018	U	75-00-3	Chloroethane	0.0018	U
79-00-5	1,1,2-Trichloroethane	0.0018	U	67-66-3	Chloroform	0.0018	U
75-34-3	1,1-Dichloroethane	0.0018	U	74-87-3	Chloromethane	0.0018	U
75-35-4	1,1-Dichloroethene	0.0018	U	156-59-2	cis-1,2-Dichloroethene	0.0018	U
87-61-6	1,2,3-Trichlorobenzene	0.0018	U	10061-01-5	cis-1,3-Dichloropropene	0.0018	U
120-82-1	1,2,4-Trichlorobenzene	0.0018	U	110-82-7	Cyclohexane	0.0018	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0018	U	124-48-1	Dibromochloromethane	0.0018	U
106-93-4	1,2-Dibromoethane	0.00058	U	75-71-8	Dichlorodifluoromethane	0.0018	U
95-50-1	1,2-Dichlorobenzene	0.0018	U	100-41-4	Ethylbenzene	0.00089	U
107-06-2	1,2-Dichloroethane	0.0018	U	98-82-8	Isopropylbenzene	0.00089	U
78-87-5	1,2-Dichloropropane	0.0018	U	79601-23-1	m&p-Xylenes	0.0013	U
541-73-1	1,3-Dichlorobenzene	0.0018	U	79-20-9	Methyl Acetate	0.0018	U
106-46-7	1,4-Dichlorobenzene	0.0018	U	108-87-2	Methylcyclohexane	0.0018	U
123-91-1	1,4-Dioxane	0.089	U	**75-09-2**	**Methylene Chloride**	**0.0018**	**0.0024**
78-93-3	**2-Butanone**	**0.0018**	**0.0049**	1634-04-4	Methyl-t-butyl ether	0.00089	U
591-78-6	2-Hexanone	0.0018	U	95-47-6	o-Xylene	0.00089	U
108-10-1	4-Methyl-2-Pentanone	0.0018	U	100-42-5	Styrene	0.0018	U
67-64-1	**Acetone**	**0.0089**	**0.023**	127-18-4	Tetrachloroethene	0.0018	U
71-43-2	Benzene	0.00089	U	108-88-3	Toluene	0.00089	U
74-97-5	Bromochloromethane	0.0018	U	156-60-5	trans-1,2-Dichloroethene	0.0018	U
75-27-4	Bromodichloromethane	0.0018	U	10061-02-6	trans-1,3-Dichloropropene	0.0018	U
75-25-2	Bromoform	0.0018	U	79-01-6	Trichloroethene	0.0018	U
74-83-9	Bromomethane	0.0018	U	75-69-4	Trichlorofluoromethane	0.0018	U
75-15-0	**Carbon Disulfide**	**0.0018**	**0.0084**	75-01-4	Vinyl Chloride	0.0018	U
1330-20-7	Xylenes (Total)	0.00089	U				

Worksheet #: 696057

Total Target Concentration 0.039

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1e

ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AD38537-005
Client Id: SB-6 10-11
Data File: 1M174845.D
Analysis Date: 06/14/23 08:13
Date Rec/Extracted: 06/13/23-NA

Matrix: Soil
Initial Vol: 6.77g
Final Vol: NA
Dilution: 0.739
Solids: 83
Method: EPA 8260D

Units: mg/Kg

	Cas #	Compound	RT	Conc
1	7146-60-3	Octane, 2,3-dimethyl-	7.34	0.050J
2	61142-69-6	Cyclohexane, 1-ethyl-2,4-dimethyl-	7.41	0.033J
3		unknown	7.63	0.044J
4		unknown	7.84	0.050J
5	13151-29-6	1-Decene, 4-methyl-	7.92	0.080J
6		unknown	7.98	0.080J
7	18127-14-5	Norbornane, 2-isobutyl-	8.09	0.055J
8		unknown	8.42	0.063J
9		unknown	8.79	0.038J
10		unknown	8.92	0.036J

Worksheet #: 696057

Total Tentatively Identified Concentration 0.53

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

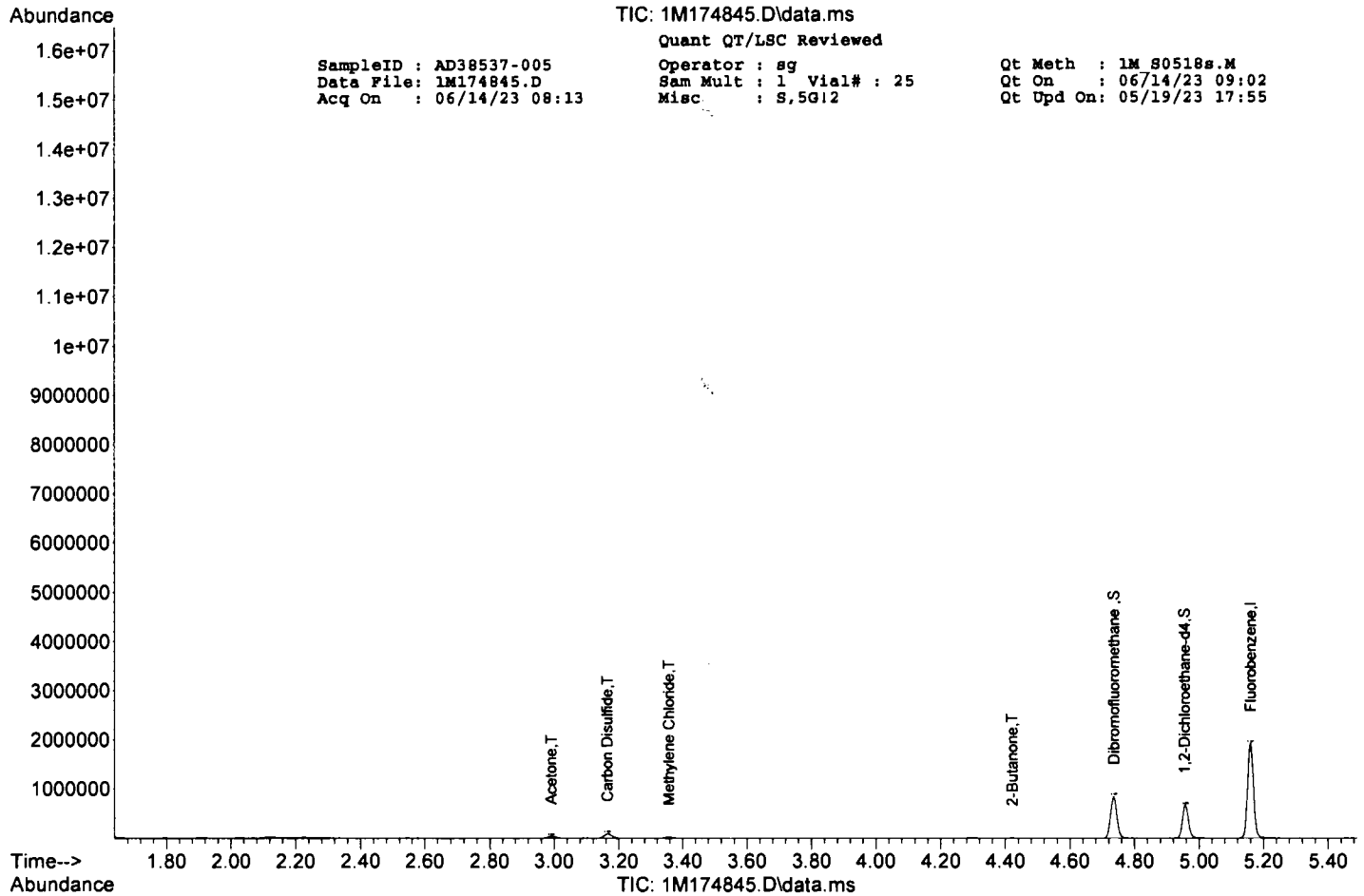
Quantitation Report (QT/LSC Reviewed)

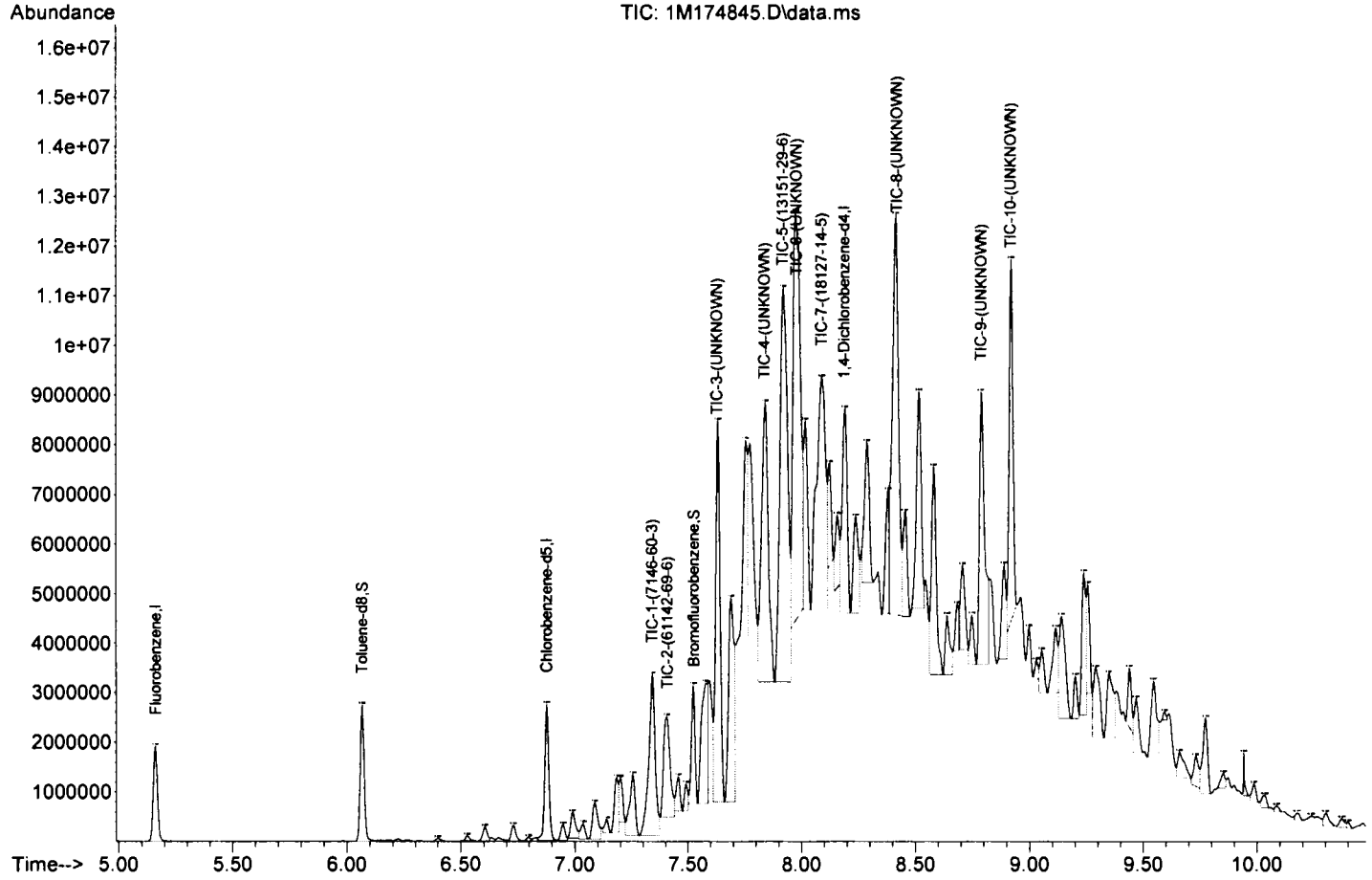
SampleID : AD38537-005 Operator : sg Qt Meth : 1M_S0518s.M
Data File: 1M174845.D Sam Mult : 1 Vial# : 25 Qt On : 06/14/23 09:02
Acq On : 06/14/23 08:13 Misc : S,5G!2 Qt Upd On: 05/19/23 17:55

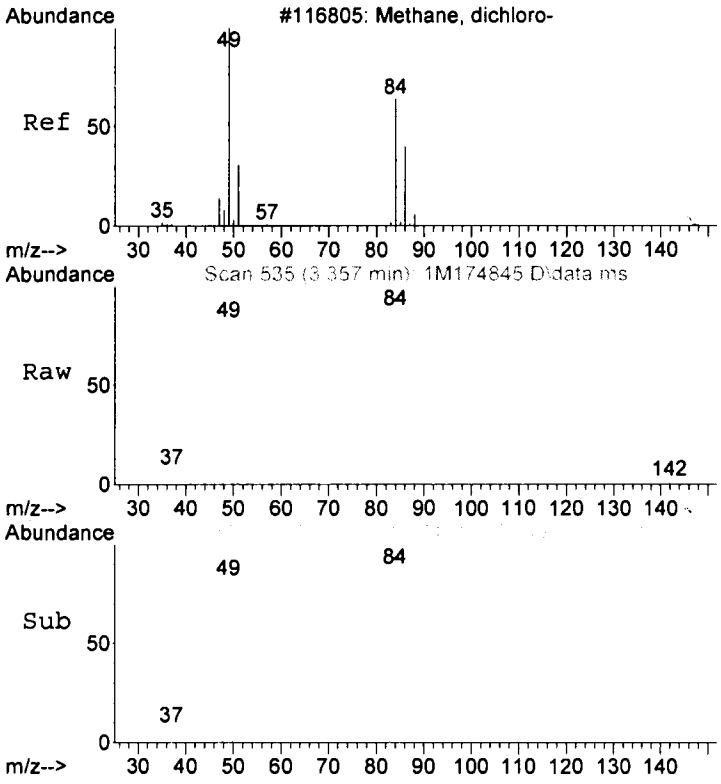
Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.161	96	1236433	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.878	117	1122533	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.190	152	580061	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.737	111	347791	31.35	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.50%			
39) 1,2-Dichloroethane-d4	4.955	67	162164	25.96	ug/l	0.00
Spiked Amount 30.000			Recovery = 86.53%			
66) Toluene-d8	6.068	98	1305982	30.69	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.30%			
76) Bromofluorobenzene	7.528	174	499311	36.32	ug/l	0.00
Spiked Amount 30.000			Recovery = 121.07%			
Target Compounds						Qvalue
15) Methylene Chloride	3.357	84	13296m	2.6775	ug/l	
19) Acetone	2.991	43	41246m	25.5382	ug/l	
20) Carbon Disulfide	3.164	76	123909m	9.4332	ug/l	
41) 2-Butanone	4.422	43	11083m	5.5605	ug/l	
Library Search Internal Standards TIC Results						
1) Fluorobenzene	5.161		2454620	30.00	ug/l	--
2) Chlorobenzene-d5	6.878		3392190	30.00	ug/l	--
3) 1,4-Dichlorobenzene-d4	8.193		6321900	30.00	ug/l	--
Library Search Compounds						
1) 7146-60-3	7.340		6349259	56.15	ug/l	50
2) 61142-69-6	7.410		4196919	37.12	ug/l	53
3) UNKNOWN	7.630		10416726	49.43	ug/l	--
4) UNKNOWN	7.840		11732806	55.68	ug/l	--
5) 13151-29-6	7.920		19026547	90.29	ug/l	50
6) UNKNOWN	7.980		18832350	89.37	ug/l	--
7) 18127-14-5	8.090		13124770	62.28	ug/l	50
8) UNKNOWN	8.420		14999426	71.18	ug/l	--
9) UNKNOWN	8.790		8939043	42.42	ug/l	--
10) UNKNOWN	8.920		8445634	40.08	ug/l	--

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 1M174845.D\data.ms
Quant QT/LSC Reviewed
SampleID : AD38537-005
Data File: 1M174845.D
Acq On : 06/14/23 08:13
Operator : sg
Sam Mult : 1 Vial# : 25
Misc : S,5G12
Qt Meth : 1M_S0518s.M
Qt On : 06/14/23 09:02
Qt Upd On: 05/19/23 17:55
Acetone,T
Carbon Disulfide,T
Methylene Chloride,T
2-Butanone,T
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Time-->

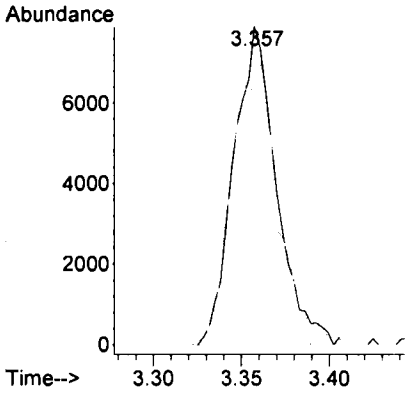

Abundance
TIC: 1M174845.D\data.ms
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
TIC-1-(7146-60-3)
TIC-2-(61142-69-6)
Bromofluorobenzene,S
TIC-3-(UNKNOWN)
TIC-4-(UNKNOWN)
TIC-5-(13151-29-6)
TIC-6-(UNKNOWN)
TIC-7-(18127-14-5)
1,4-Dichlorobenzene-d4,I
TIC-8-(UNKNOWN)
TIC-9-(UNKNOWN)
TIC-10-(UNKNOWN)
Time-->

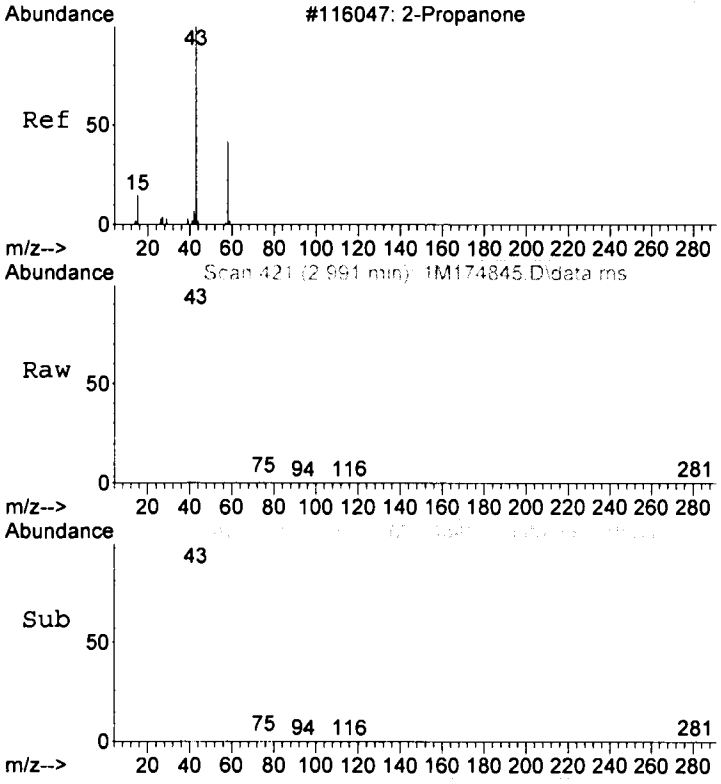


#15
Methylene Chloride
Concen: 2.68 ug/l m
RT: 3.357 min Scan# 535
Delta R.T. 0.013 min
Lab File: 1M174845.D
Acq: 14 Jun 2023 08:13

Tgt Ion: 84 Resp: 13296

Ion	Ratio	Lower	Upper
84	100		
49	82.2	41.5	165.9
86	77.3	26.6	106.6

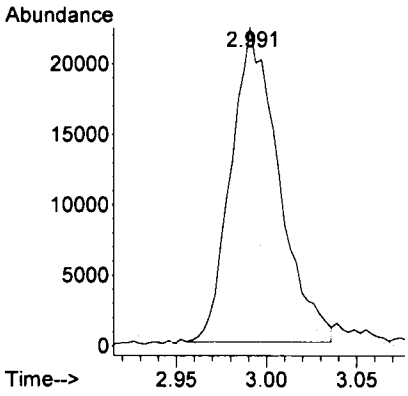


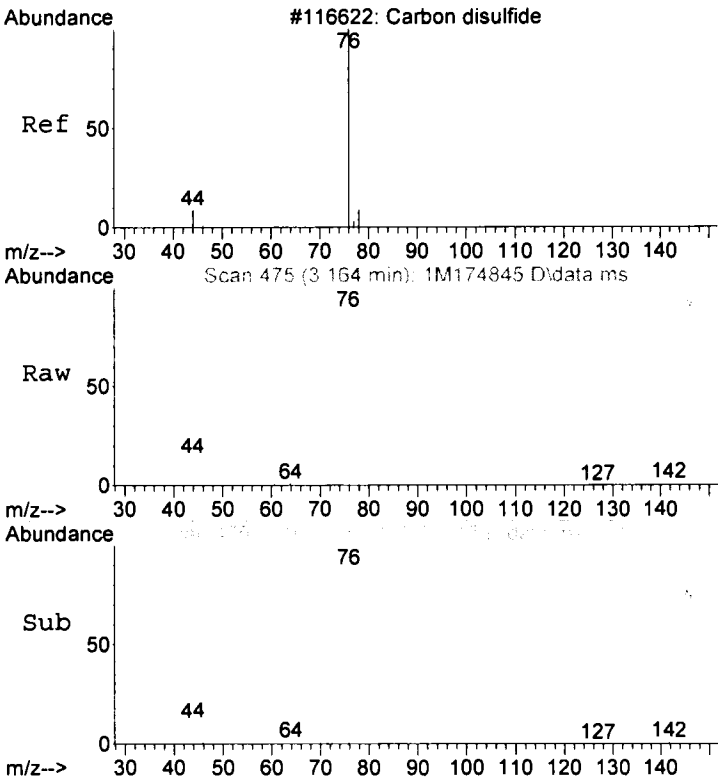


#19
Acetone
Concen: 25.54 ug/l m
RT: 2.991 min Scan# 421
Delta R.T. 0.013 min
Lab File: 1M174845.D
Acq: 14 Jun 2023 08:13

Tgt Ion: 43 Resp: 41246

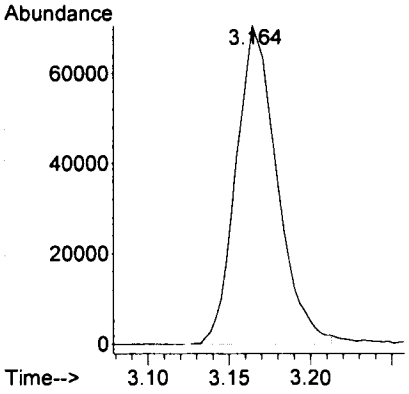
Ion	Ratio	Lower	Upper
43	100		
58	33.2	0.0	78.7

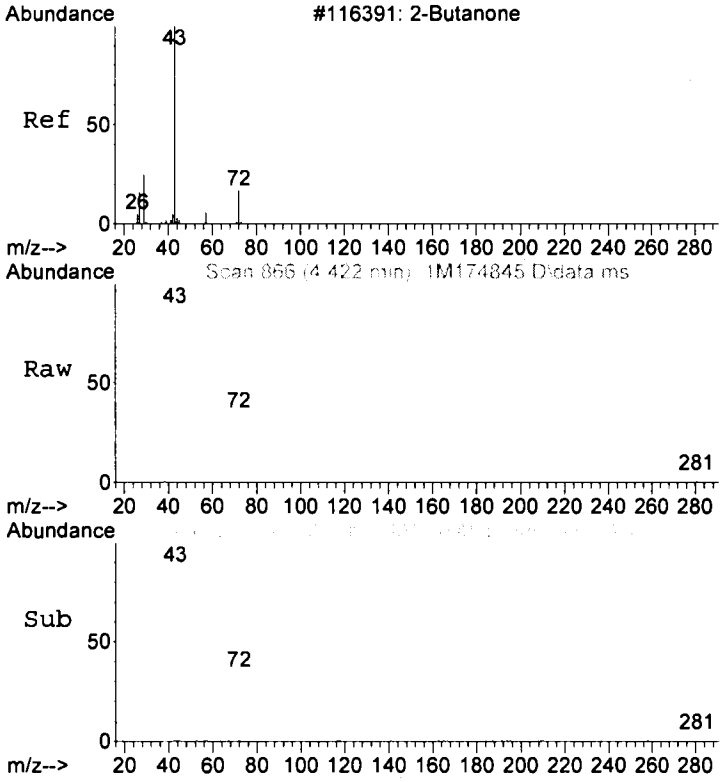




#20
Carbon Disulfide
Concen: 9.43 ug/l m
RT: 3.164 min Scan# 475
Delta R.T. 0.006 min
Lab File: 1M174845.D
Acq: 14 Jun 2023 08:13

Tgt Ion: 76 Resp: 123909

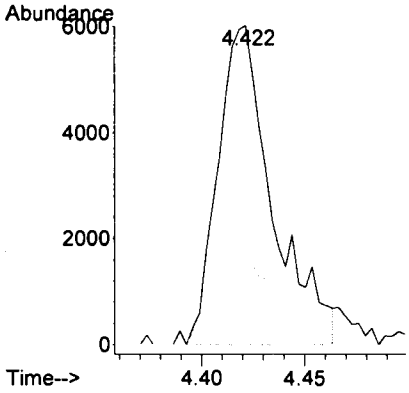




#41
2-Butanone
Concen: 5.56 ug/l m
RT: 4.422 min Scan# 866
Delta R.T. 0.013 min
Lab File: 1M174845.D
Acq: 14 Jun 2023 08:13

Tgt Ion: 43 Resp: 11083

Ion	Ratio	Lower	Upper
43	100		
72	35.1	0.0	130.0



LSC Area Percent Report

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174845.D
Acq On : 14 Jun 2023 08:13
Operator : sg
Sample : AD38537-005
Misc : S,5G!2
ALS Vial : 25 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Title : @GCMS_1,ug,624,8260

Signal : TIC: 1M174845.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.991	410	421	435	rVB2	38616	73405	0.39%	0.031%
2	3.164	465	475	490	rBV	90178	153931	0.81%	0.064%
3	4.737	952	964	982	rBV	842849	1166160	6.13%	0.488%
4	4.959	1023	1033	1044	rBV	656292	856531	4.50%	0.358%
5	5.161	1083	1096	1111	rBV	1914240	2443321	12.84%	1.022%
6	6.068	1366	1378	1396	rBV	2748762	3319724	17.45%	1.388%
7	6.399	1474	1481	1495	rVB4	60448	100794	0.53%	0.042%
8	6.528	1514	1521	1534	rVB2	102698	139640	0.73%	0.058%
9	6.605	1534	1545	1551	rBV	281638	383596	2.02%	0.160%
10	6.730	1576	1584	1597	rVB2	311001	427156	2.25%	0.179%
11	6.798	1597	1605	1610	rBV2	69961	88782	0.47%	0.037%
12	6.878	1617	1630	1643	rVB	2734652	3392185	17.83%	1.419%
13	6.949	1643	1652	1658	rBV2	314674	403417	2.12%	0.169%
14	6.991	1658	1665	1673	rBV3	518952	792122	4.16%	0.331%
15	7.036	1673	1679	1686	rVB5	314466	428403	2.25%	0.179%
16	7.087	1686	1695	1703	rBV4	731202	1248192	6.56%	0.522%
17	7.139	1706	1711	1717	rVB3	275883	306842	1.61%	0.128%
18	7.184	1717	1725	1728	rBV	1118381	1505697	7.91%	0.630%
19	7.200	1728	1730	1737	rVB3	889094	891875	4.69%	0.373%
20	7.254	1737	1747	1756	rVB	1238245	2126267	11.18%	0.889%
21	7.341	1756	1774	1784	rBV	3247457	6349259	33.37%	2.655%
22	7.405	1784	1794	1805	rBV5	2025439	4196919	22.06%	1.755%
23	7.457	1805	1810	1816	rVB5	696856	801934	4.21%	0.335%
24	7.492	1816	1821	1824	rBV2	549331	588093	3.09%	0.246%
25	7.524	1824	1831	1837	rVB2	2380161	2622165	13.78%	1.097%
26	7.579	1837	1848	1851	rBV7	2425965	4782607	25.14%	2.000%
27	7.634	1858	1865	1874	rVB3	7683665	10416726	54.75%	4.356%
28	7.692	1874	1883	1888	rBV3	4123356	7194548	37.81%	3.009%
29	7.756	1894	1903	1906	rBV7	3955267	5376433	28.26%	2.248%
30	7.843	1920	1930	1943	rVB7	5634592	11732806	61.67%	4.907%
31	7.923	1943	1955	1965	rBV7	7950045	19026547	100.00%	7.957%
32	7.978	1965	1972	1982	rVV9	8165789	18832350	98.98%	7.876%
33	8.020	1982	1985	1992	rVB4	3798466	4311462	22.66%	1.803%
34	8.093	1992	2008	2015	rBV8	4668463	13124770	68.98%	5.489%
35	8.126	2015	2018	2023	rVB	1928284	1874375	9.85%	0.784%

LSC Area Percent Report

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174845.D
Acq On : 14 Jun 2023 08:13
Operator : sg
Sample : AD38537-005
Misc : S,5G!2
ALS Vial : 25 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Title : @GCMS_1,ug,624,8260

36	8.158	2024	2028	2032	rVV7	1430982	1815648	9.54%	0.759%
37	8.193	2032	2039	2046	rVB6	4118703	6321901	33.23%	2.644%
38	8.241	2046	2054	2059	rBV4	1944988	3136040	16.48%	1.311%
39	8.290	2062	2069	2078	rVB6	2818659	4223074	22.20%	1.766%
40	8.383	2090	2098	2099	rBV4	2481758	2709849	14.24%	1.133%
41	8.418	2100	2109	2117	rVV7	8052374	14999426	78.83%	6.273%
42	8.457	2117	2121	2128	rVB4	2115007	2577732	13.55%	1.078%
43	8.518	2130	2140	2147	rBV4	4359333	6532985	34.34%	2.732%
44	8.582	2154	2160	2172	rVB6	4196466	6201735	32.60%	2.594%
45	8.640	2172	2178	2185	rBV7	1210665	1701324	8.94%	0.711%
46	8.685	2186	2192	2194	rBV4	949098	983948	5.17%	0.411%
47	8.708	2195	2199	2207	rVB7	1710926	2282191	11.99%	0.954%
48	8.749	2207	2212	2218	rVB3	1014348	1140988	6.00%	0.477%
49	8.791	2218	2225	2235	rBV3	5494569	8939043	46.98%	3.738%
50	8.891	2248	2256	2260	rBV	1911289	2664352	14.00%	1.114%
51	8.923	2260	2266	2273	rVB	7120962	8445634	44.39%	3.532%
52	9.000	2285	2290	2295	rVB3	1009036	1079373	5.67%	0.451%
53	9.032	2296	2300	2303	rVV4	365890	372703	1.96%	0.156%
54	9.055	2303	2307	2315	rVB8	855955	1079648	5.67%	0.451%
55	9.116	2315	2326	2330	rBV6	1312117	2175159	11.43%	0.910%
56	9.142	2330	2334	2347	rVB8	2077978	3634464	19.10%	1.520%
57	9.203	2347	2353	2358	rBV5	859323	904536	4.75%	0.378%
58	9.241	2358	2365	2368	rBV2	2882542	3738806	19.65%	1.564%
59	9.257	2368	2370	2376	rVB4	2208450	1909592	10.04%	0.799%
60	9.293	2376	2381	2392	rVB4	1412977	2691035	14.14%	1.125%
61	9.351	2392	2399	2407	rBV3	1303860	2653934	13.95%	1.110%
62	9.441	2422	2427	2432	rBV5	1120304	1329407	6.99%	0.556%
63	9.470	2432	2436	2445	rVB6	1078755	1439810	7.57%	0.602%
64	9.547	2451	2460	2467	rBV5	1528459	2672470	14.05%	1.118%
65	9.595	2471	2475	2478	rBV6	159062	145295	0.76%	0.061%
66	9.659	2491	2495	2511	rVV9	519224	1066973	5.61%	0.446%
67	9.730	2511	2517	2523	rVV3	611894	975841	5.13%	0.408%
68	9.775	2523	2531	2539	rVB3	1517001	2275670	11.96%	0.952%
69	9.852	2547	2555	2558	rBV7	295763	401165	2.11%	0.168%
70	9.942	2581	2583	2590	rVB3	871507	328872	1.73%	0.138%
71	9.987	2592	2597	2604	rVB6	361887	440358	2.31%	0.184%
72	10.036	2606	2612	2619	rVB6	253392	372059	1.96%	0.156%
73	10.087	2624	2628	2636	rVB10	123245	154728	0.81%	0.065%
74	10.177	2652	2656	2664	rVB7	149765	207044	1.09%	0.087%
75	10.238	2668	2675	2680	rBV10	70727	103284	0.54%	0.043%

LSC Area Percent Report

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174845.D
Acq On : 14 Jun 2023 08:13
Operator : sg
Sample : AD38537-005
Misc : S,5G!2
ALS Vial : 25 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Title : @GCMS_1,ug,624,8260

76	10.302	2691	2695	2710	rVB6	262684	409219	2.15%	0.171%
77	10.373	2710	2717	2723	rVV5	181712	295069	1.55%	0.123%
78	10.399	2723	2725	2731	rVB5	121415	114058	0.60%	0.048%

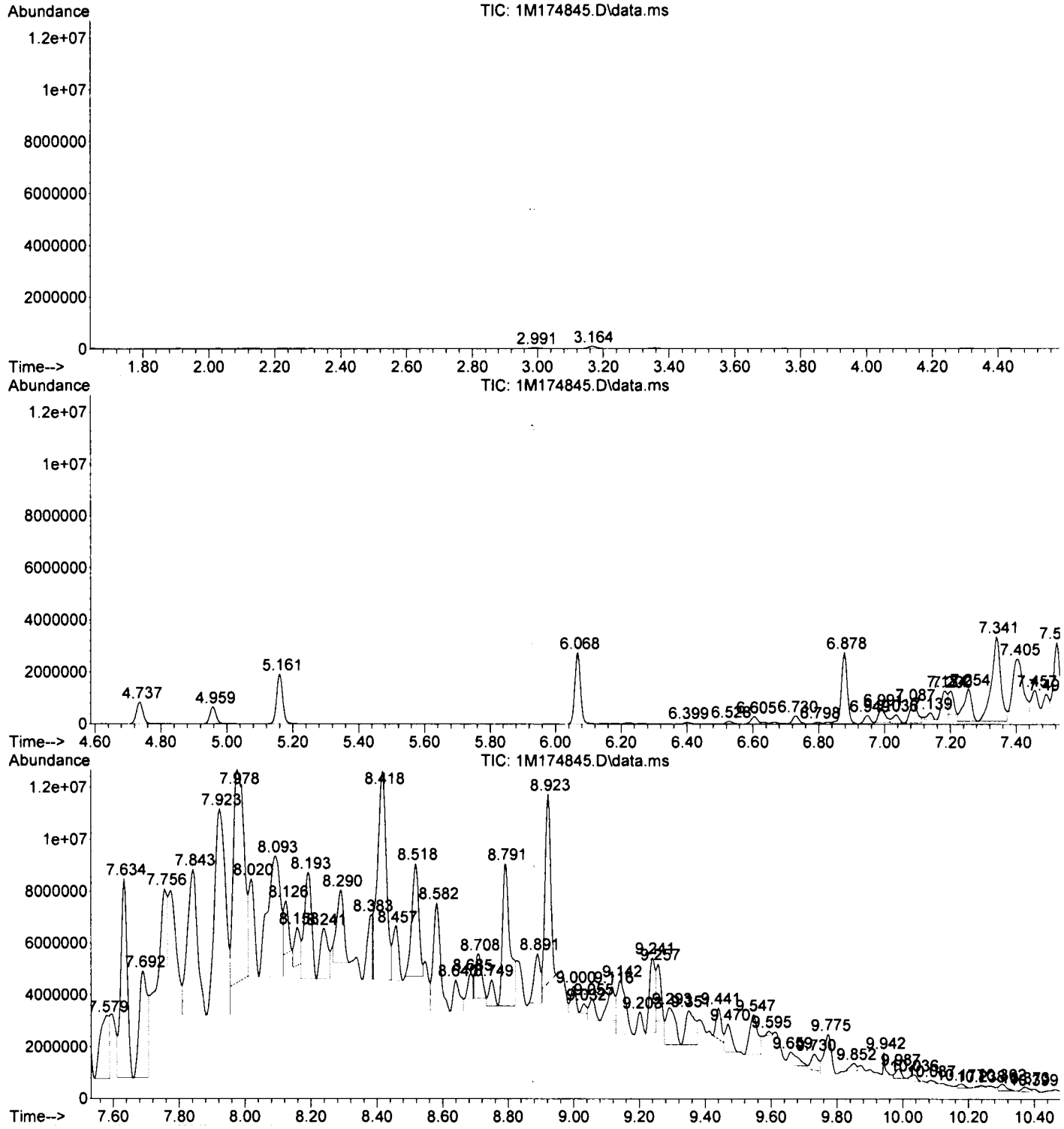
Sum of corrected areas: 239125476

LSC Report - Integrated Chromatogram

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174845.D
Acq On : 14 Jun 2023 08:13
Operator : sg
Sample : AD38537-005
Misc : S,5G!2
ALS Vial : 25 Sample Multiplier: 1

Quant Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Quant Title : @GCMS_1,ug,624,8260

TIC Library : G:\GCMSDATA\WILEY138.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174845.D
Acq On : 14 Jun 2023 08:13
Operator : sg
Sample : AD38537-005
Misc : S,5G!2
ALS Vial : 25 Sample Multiplier: 1

Quant Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Quant Title : @GCMS_1,ug,624,8260

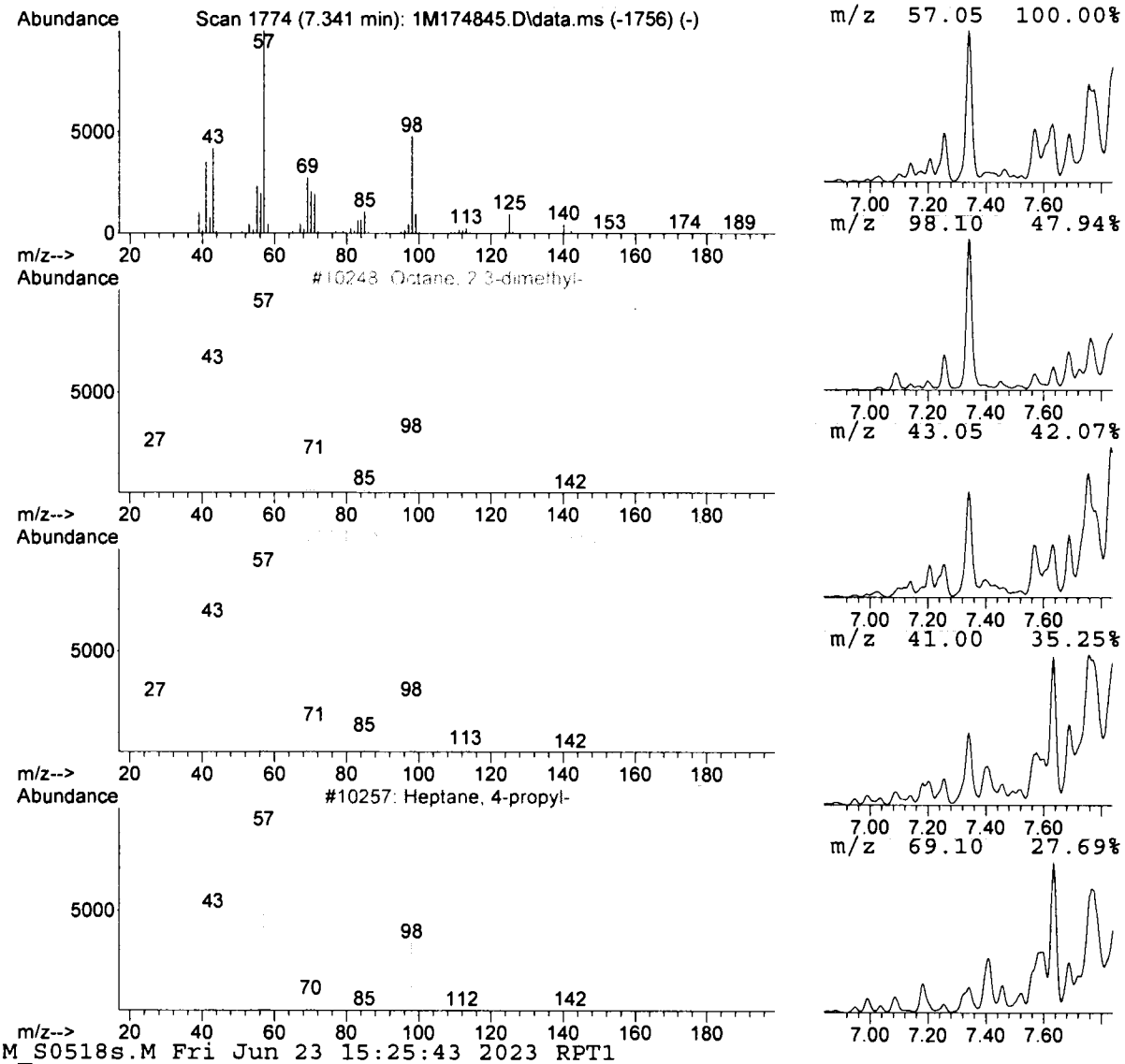
TIC Library : G:\GCMSDATA\WILEY138.L
TIC Integration Parameters: LSCINT.P

****

Peak Number 1 Octane, 2,3-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.34	56.15 ug/l	6349259	LibIS-Chlorobenzene-d5	6.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,3-dimethyl-	142	C10H22	007146-60-3	50
2	Heptane, 3-ethyl-2-methyl-	142	C10H22	014676-29-0	37
3	Heptane, 4-propyl-	142	C10H22	003178-29-8	22
4	Ether, tert-butyl isopropylidene...	154	C10H18O	024524-56-9	38
5	Nonane, 4-methyl-	142	C10H22	017301-94-9	16



Library Search Compound Report

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174845.D
Acq On : 14 Jun 2023 08:13
Operator : sg
Sample : AD38537-005
Misc : S,5G!2
ALS Vial : 25 Sample Multiplier: 1

Quant Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Quant Title : @GCMS_1,ug,624,8260

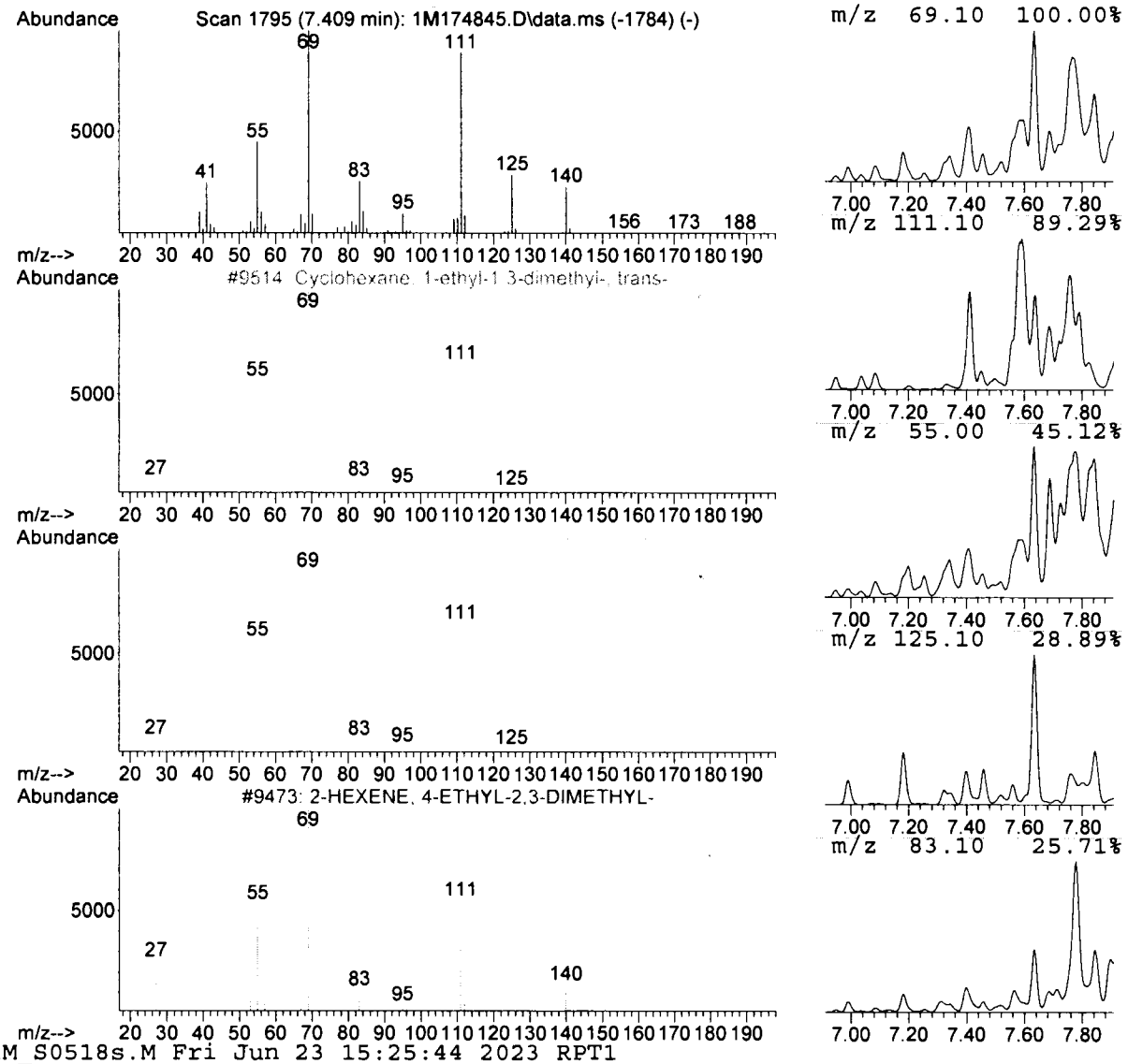
TIC Library : G:\GCMSDATA\WILEY138.L
TIC Integration Parameters: LSCINT.P

****

Peak Number 2 Cyclohexane, 1-ethyl-2,4-di... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.41	37.12 ug/l	4196919	LibIS-Chlorobenzene-d5	6.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1-ethyl-1,3-dimethy...	140	C10H20	062238-29-3	42
2	Cyclohexane, 1-ethyl-1,3-dimethy...	140	C10H20	062238-31-7	42
3	2-HEXENE, 4-ETHYL-2,3-DIMETHYL-	140	C10H20	000000-00-0	45
4	Cyclohexane, 1-ethyl-2,4-dimethyl-	140	C10H20	061142-69-6	53
5	Cyclooctane, (1-methylpropyl)-	168	C12H24	016538-89-9	53



Library Search Compound Report

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174845.D
Acq On : 14 Jun 2023 08:13
Operator : sg
Sample : AD38537-005
Misc : S,5G!2
ALS Vial : 25 Sample Multiplier: 1

Quant Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Quant Title : @GCMS_1,ug,624,8260

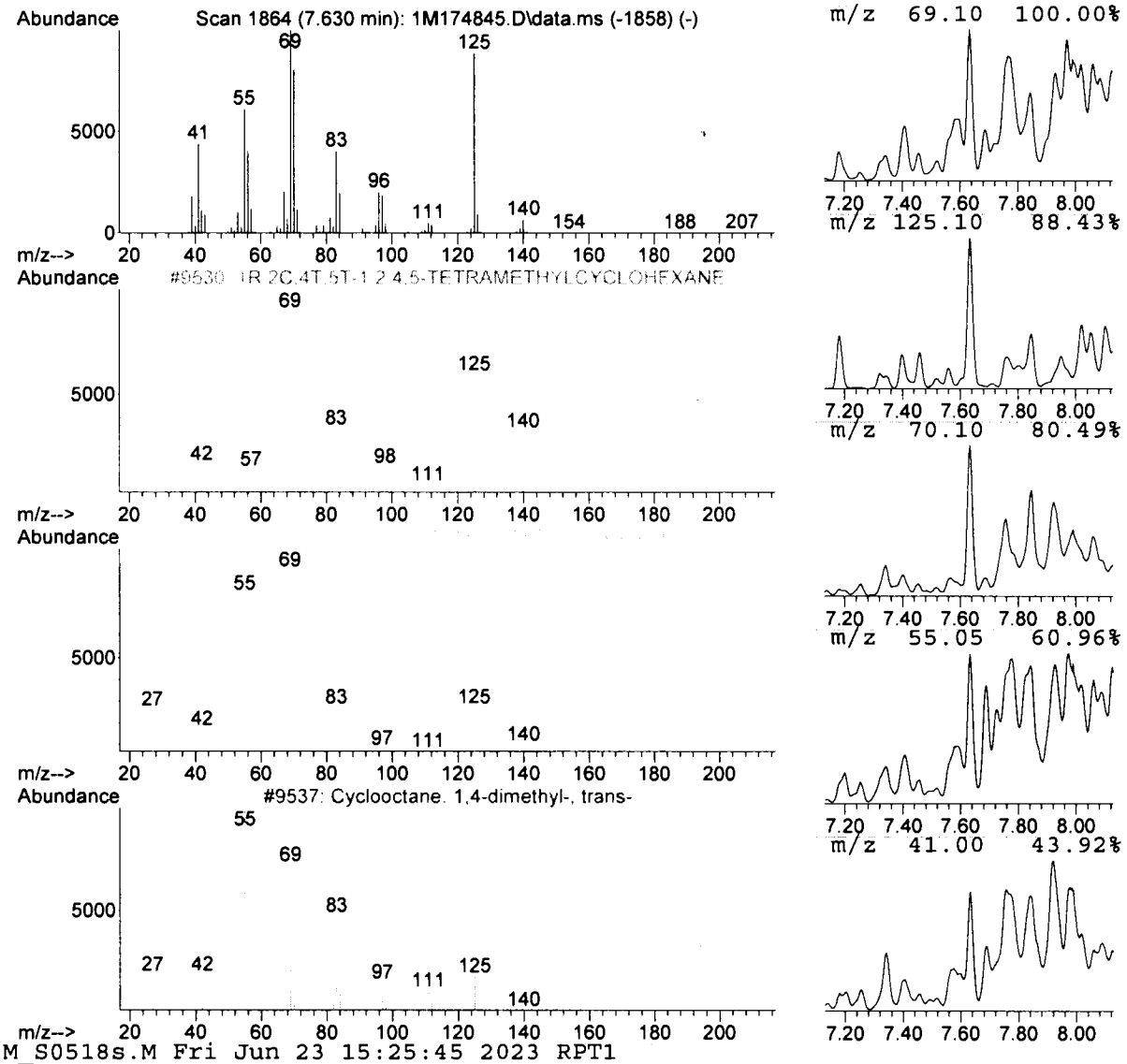
TIC Library : G:\GCMSDATA\WILEY138.L
TIC Integration Parameters: LSCINT.P

****

Peak Number 3 unknown Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.63	49.43 ug/l	10416726	LibIS-1,4-Dichlorobenzene-d4	8.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1R,2C,4T,5T-1,2,4,5-TETRAMETHYLC...	140	C10H20	019899-42-4	56
2	1,1,2,3-TETRAMETHYLCYCLOHEXANE B	140	C10H20	071186-28-2	14
3	Cyclooctane, 1,4-dimethyl-, trans-	140	C10H20	013151-98-9	10
4	Cyclohexane, 1,1,3,5-tetramethyl...	140	C10H20	050876-31-8	37
5	4-Octene, 2,6-dimethyl-, [S-(E)]-	140	C10H20	062960-76-3	40



Library Search Compound Report

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174845.D
Acq On : 14 Jun 2023 08:13
Operator : sg
Sample : AD38537-005
Misc : S,5G!2
ALS Vial : 25 Sample Multiplier: 1

Quant Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Quant Title : @GCMS_1,ug,624,8260

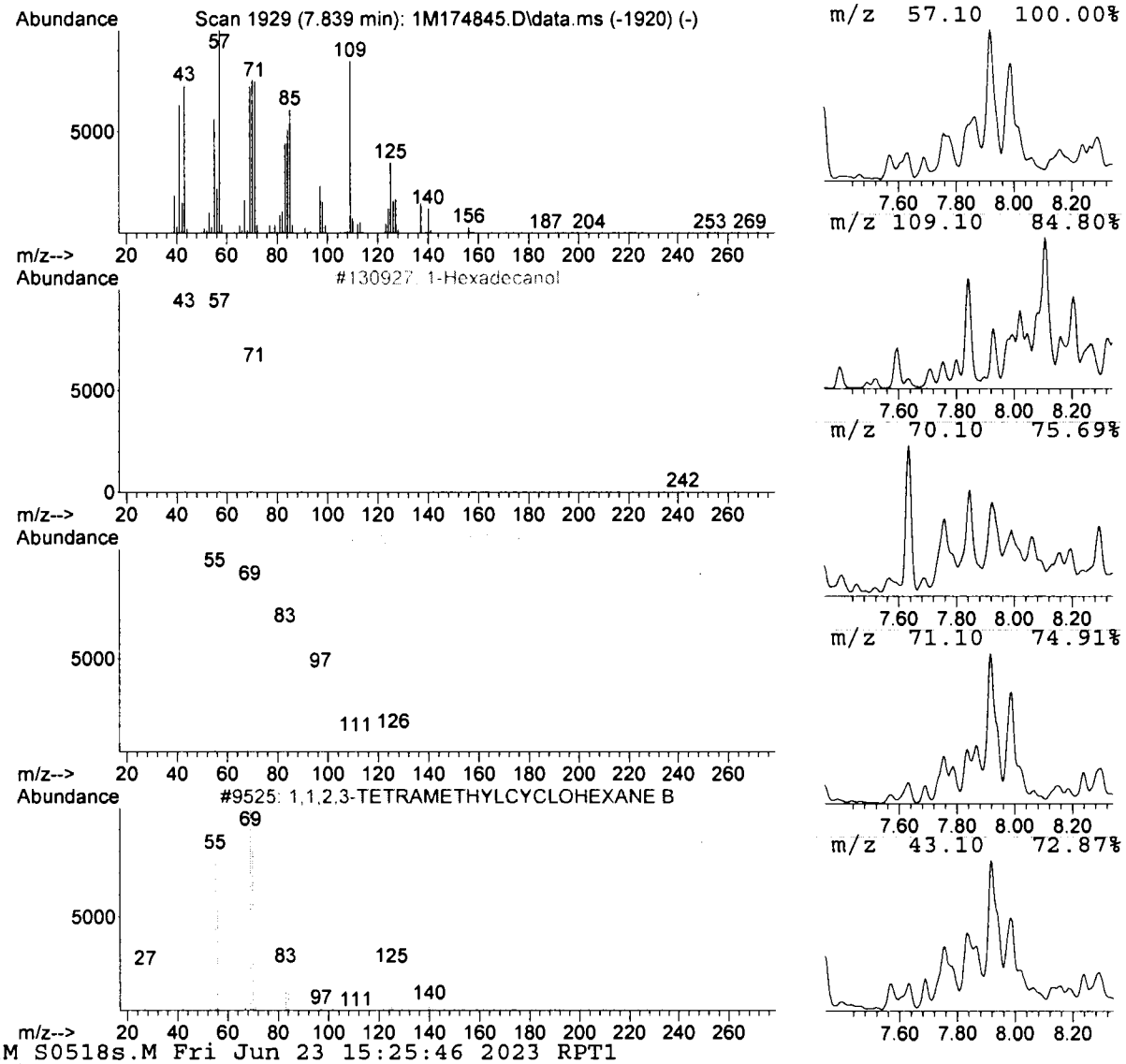
TIC Library : G:\GCMSDATA\WILEY138.L
TIC Integration Parameters: LSCINT.P

****

Peak Number 4 unknown Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.84	55.68 ug/l	11732806	LibIS-1,4-Dichlorobenzene-d4	8.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexadecanol	242	C16H34O	036653-82-4	32
2	1-Undecanol	172	C11H24O	000112-42-5	37
3	1,1,2,3-TETRAMETHYLCYCLOHEXANE B	140	C10H20	071186-28-2	38
4	1-Decene	140	C10H20	000872-05-9	43
5	3-Nonene, 3-methyl-, (E)-	140	C10H20	069405-42-1	27



Library Search Compound Report

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174845.D
Acq On : 14 Jun 2023 08:13
Operator : sg
Sample : AD38537-005
Misc : S,5G!2
ALS Vial : 25 Sample Multiplier: 1

Quant Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Quant Title : @GCMS_1,ug,624,8260

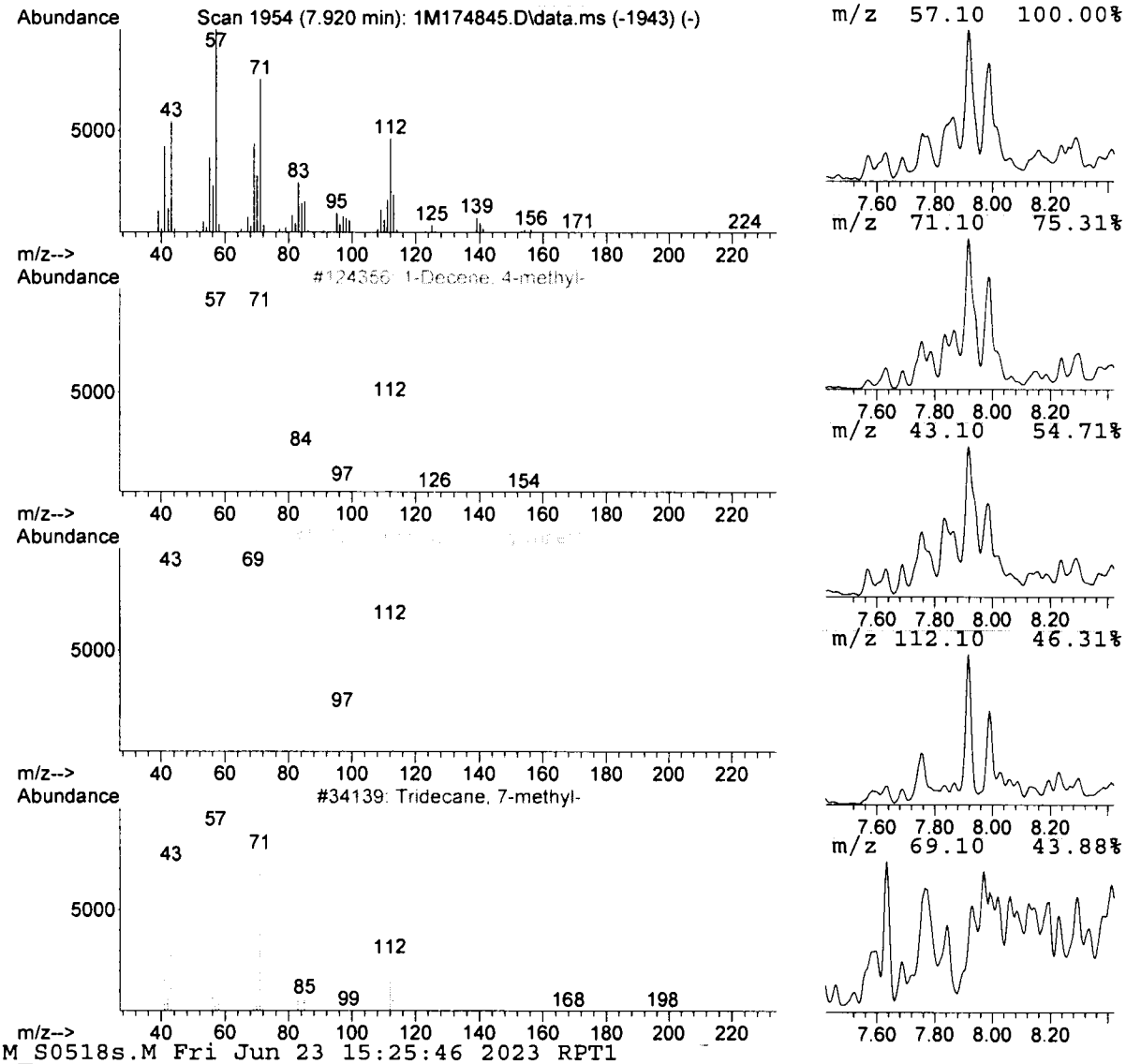
TIC Library : G:\GCMSDATA\WILEY138.L
TIC Integration Parameters: LSCINT.P

****

Peak Number 5 1-Decene, 4-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.92	90.29 ug/l	19026547	LibIS-1,4-Dichlorobenzene-d4	8.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Decene, 4-methyl-	154	C11H22	013151-29-6	50
2	Ethanone, 1-cyclopentyl-	112	C7H12O	006004-60-0	47
3	Tridecane, 7-methyl-	198	C14H30	026730-14-3	38
4	Nonane, 4-methyl-5-propyl-	184	C13H28	062185-55-1	38
5	1-Decene, 4-methyl-	154	C11H22	013151-29-6	38



Library Search Compound Report

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174845.D
Acq On : 14 Jun 2023 08:13
Operator : sg
Sample : AD38537-005
Misc : S,5G!2
ALS Vial : 25 Sample Multiplier: 1

Quant Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Quant Title : @GCMS_1,ug,624,8260

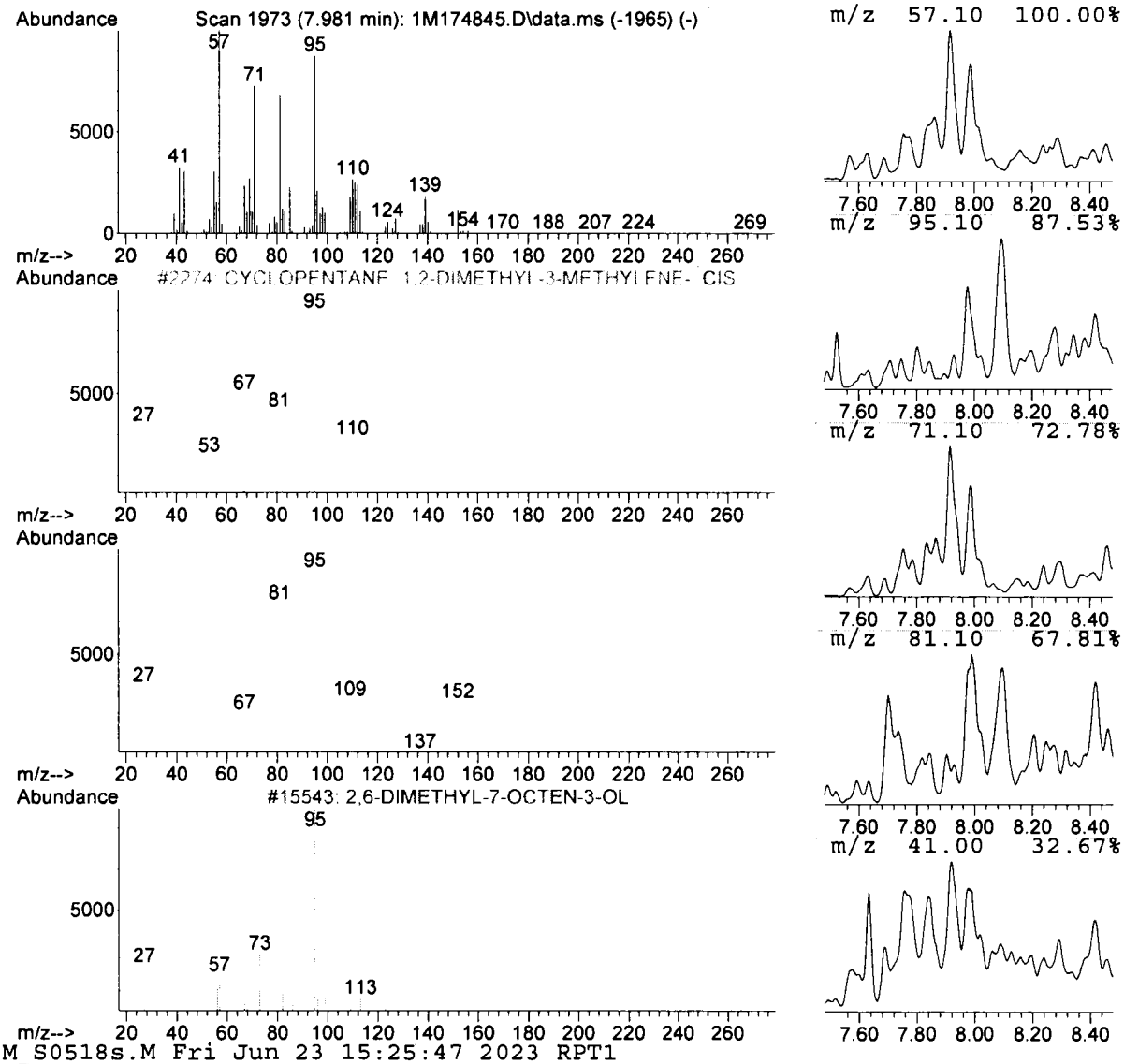
TIC Library : G:\GCMSDATA\WILEY138.L
TIC Integration Parameters: LSCINT.P

****

Peak Number 6 unknown Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.98	89.37 ug/l	18832350	LibIS-1,4-Dichlorobenzene-d4	8.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	CYCLOPENTANE, 1,2-DIMETHYL-3-MET...	110	C8H14	000000-00-0	27
2	Camphor	152	C10H16O	000076-22-2	12
3	2,6-DIMETHYL-7-OCTEN-3-OL	156	C10H20O	000000-00-0	12
4	1,4-Cyclohexanedimethanol	144	C8H16O2	000105-08-8	10
5	BICYCLO[2.2.1]HEPTANE, 2-FORMYL-	124	C8H12O	000000-00-0	14



Library Search Compound Report

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174845.D
Acq On : 14 Jun 2023 08:13
Operator : sg
Sample : AD38537-005
Misc : S,5G!2
ALS Vial : 25 Sample Multiplier: 1

Quant Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Quant Title : @GCMS_1,ug,624,8260

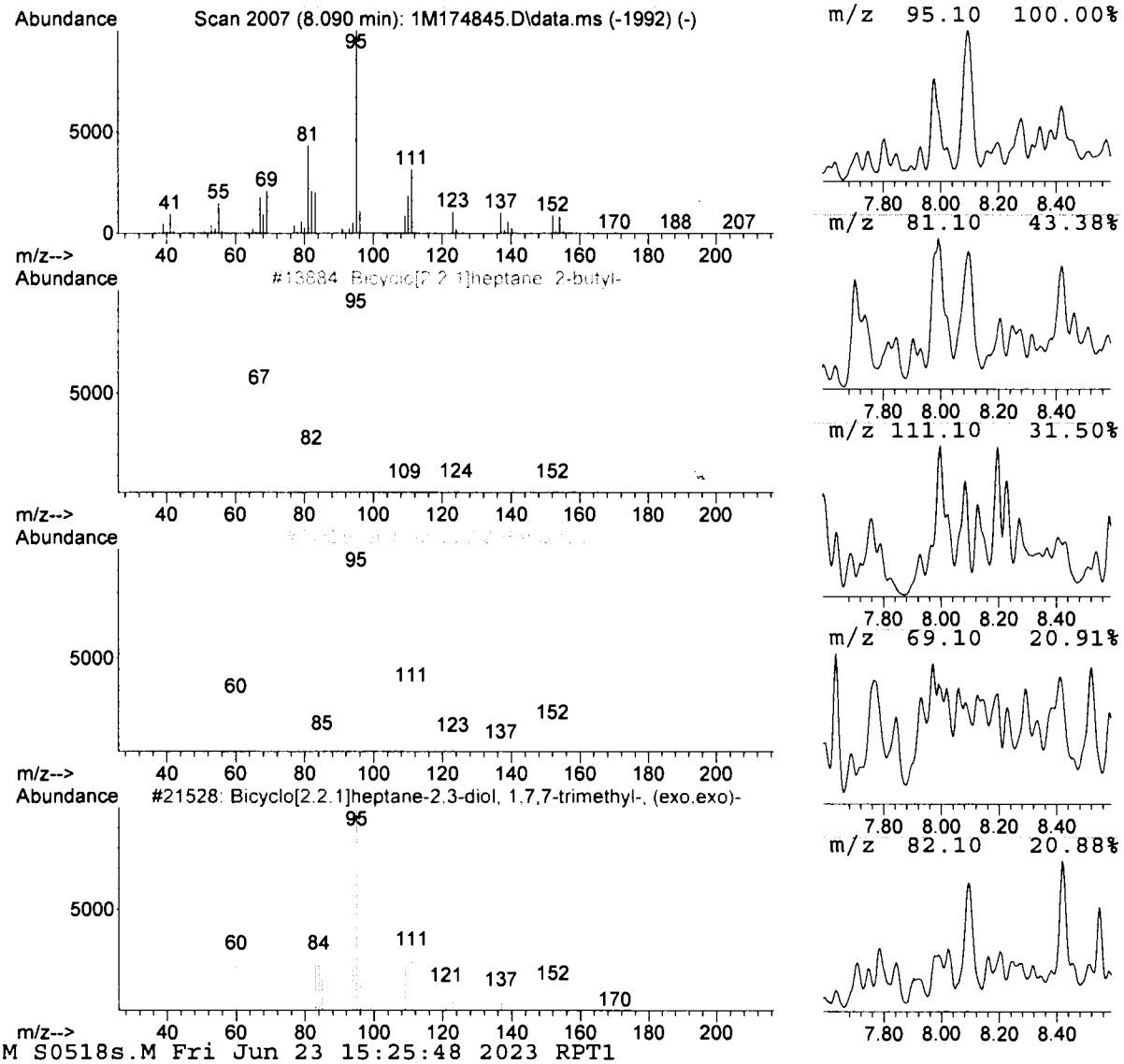
TIC Library : G:\GCMSDATA\WILEY138.L
TIC Integration Parameters: LSCINT.P

****

Peak Number 7 Norbornane, 2-isobutyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.09	62.28 ug/l	13124770	LibIS-1,4-Dichlorobenzene-d4	8.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bicyclo[2.2.1]heptane, 2-butyl-	152	C11H20	061177-16-0	42
2	endo,endo-2,3-Bornanediol	170	C10H18O2	038226-15-2	42
3	Bicyclo[2.2.1]heptane-2,3-diol, ...	170	C10H18O2	056614-57-4	37
4	Cyclohexene, 3-methyl-6-(1-methy...	138	C10H18	005256-65-5	12
5	Norbornane, 2-isobutyl-	152	C11H20	018127-14-5	50



Library Search Compound Report

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174845.D
Acq On : 14 Jun 2023 08:13
Operator : sg
Sample : AD38537-005
Misc : S,5G!2
ALS Vial : 25 Sample Multiplier: 1

Quant Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Quant Title : @GCMS_1,ug,624,8260

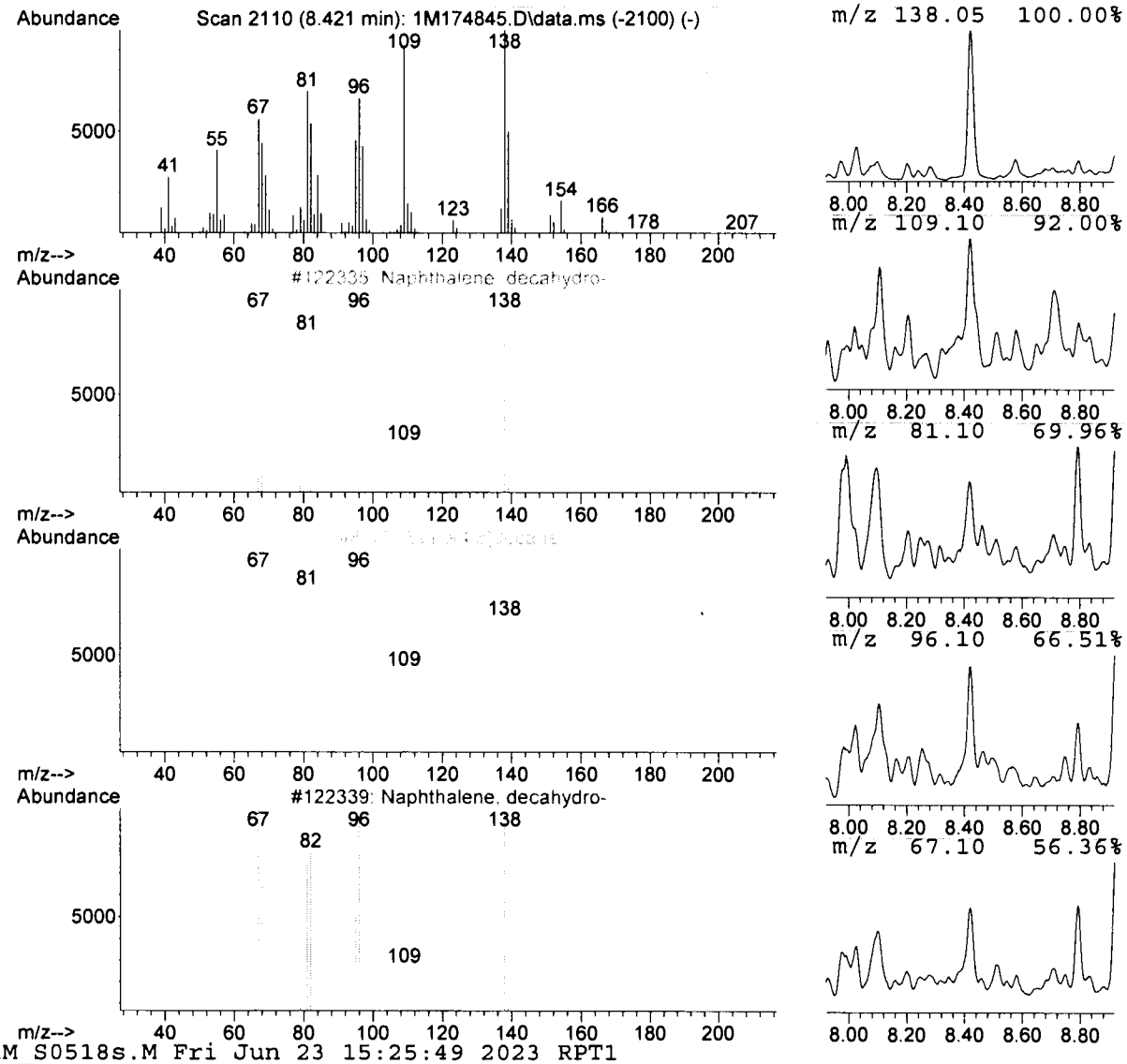
TIC Library : G:\GCMSDATA\WILEY138.L
TIC Integration Parameters: LSCINT.P

****

Peak Number 8 unknown Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.42	71.18 ug/l	14999426	LibIS-1,4-Dichlorobenzene-d4	8.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, decahydro-	138	C10H18	000091-17-8	22
2	Spiro[4.5]decane	138	C10H18	000176-63-6	38
3	Naphthalene, decahydro-	138	C10H18	000091-17-8	14
4	1,3-Hexadiene, 3-ethyl-2,5-dimet...	138	C10H18	062338-07-2	46
5	Spiro[4.4]nonan-2-one	138	C9H14O	034177-18-9	35



Library Search Compound Report

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174845.D
Acq On : 14 Jun 2023 08:13
Operator : sg
Sample : AD38537-005
Misc : S,5G!2
ALS Vial : 25 Sample Multiplier: 1

Quant Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Quant Title : @GCMS_1,ug,624,8260

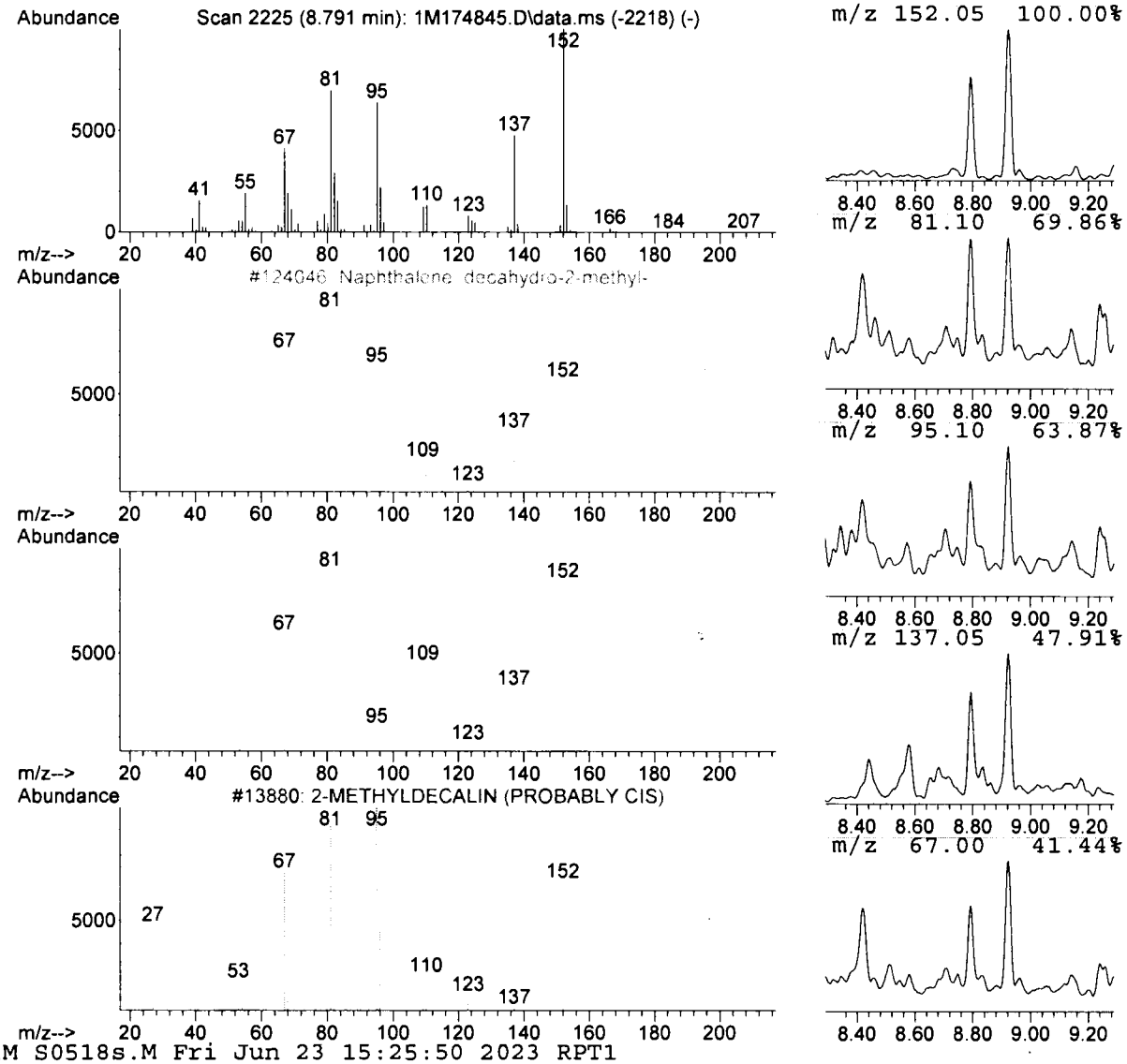
TIC Library : G:\GCMSDATA\WILEY138.L
TIC Integration Parameters: LSCINT.P

****

Peak Number 9 unknown Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.79	42.42 ug/l	8939043	LibIS-1,4-Dichlorobenzene-d4	8.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	43
2	Pulegone	152	C10H16O	000089-82-7	47
3	2-METHYLDECALIN (PROBABLY CIS)	152	C11H20	000000-00-0	38
4	Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	38
5	4-Methylene-2-oxabicyclo[3.3.1]n...	152	C9H12O2	057428-15-6	38



Library Search Compound Report

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174845.D
Acq On : 14 Jun 2023 08:13
Operator : sg
Sample : AD38537-005
Misc : S,5G!2
ALS Vial : 25 Sample Multiplier: 1

Quant Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Quant Title : @GCMS_1,ug,624,8260

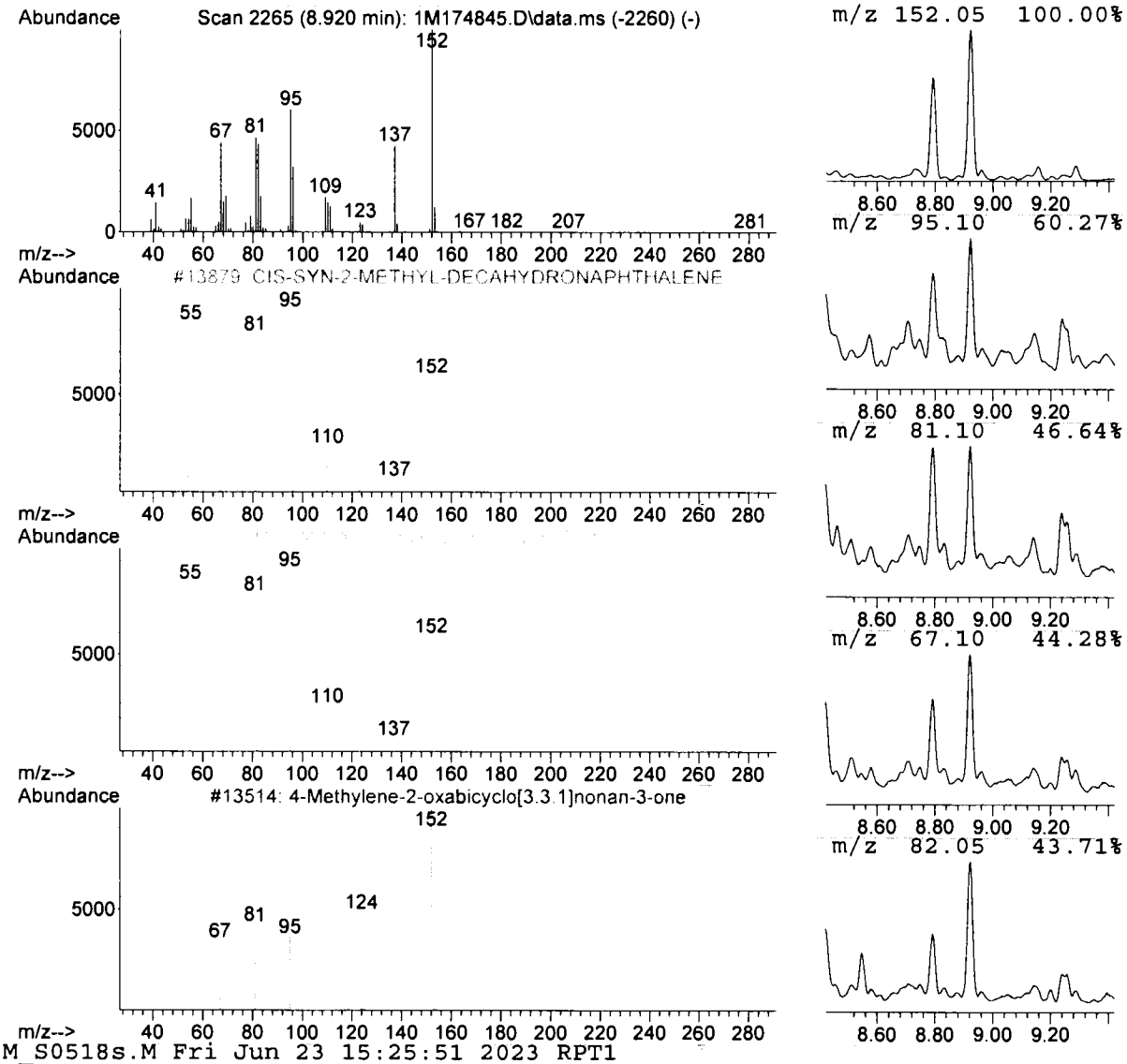
TIC Library : G:\GCMSDATA\WILEY138.L
TIC Integration Parameters: LSCINT.P

****

Peak Number 10 unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.92	40.08 ug/l	8445634	LibIS-1,4-Dichlorobenzene-d4	8.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	CIS-SYN-2-METHYL-DECAHYDRONAPHTH...	152	C11H20	000000-00-0	38
2	Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	38
3	4-Methylene-2-oxabicyclo[3.3.1]n...	152	C9H12O2	057428-15-6	38
4	8-Amino- s-triazolo[5,1-d][1,2,4...	152	C4H4N6O	085575-08-2	38
5	3-Amino-4-acetyl-5-methylene-.de...	152	C7H8N2O2	092220-23-0	32



Tentatively Identified Compound (LSC) summary

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174845.D
Acq On : 14 Jun 2023 08:13
Operator : sg
Sample : AD38537-005
Misc : S,5G!2
ALS Vial : 25 Sample Multiplier: 1

Quant Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Quant Title : @GCMS_1,ug,624,8260

TIC Library : G:\GCMSDATA\WILEY138.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	ExpRT	ActRt	Resp	Conc
Octane, 2,3-dimet...	7.34	56.2	ug/l	6349259	2	6.88	6.88	3392190	30.0
Cyclohexane, 1-et...	7.41	37.1	ug/l	4196919	2	6.88	6.88	3392190	30.0
unknown	7.63	49.4	ug/l	10416726	3	8.19	8.19	6321900	30.0
unknown	7.84	55.7	ug/l	11732806	3	8.19	8.19	6321900	30.0
1-Decene, 4-methyl-	7.92	90.3	ug/l	19026547	3	8.19	8.19	6321900	30.0
unknown	7.98	89.4	ug/l	18832350	3	8.19	8.19	6321900	30.0
Norbornane, 2-iso...	8.09	62.3	ug/l	13124770	3	8.19	8.19	6321900	30.0
unknown	8.42	71.2	ug/l	14999426	3	8.19	8.19	6321900	30.0
unknown	8.79	42.4	ug/l	8939043	3	8.19	8.19	6321900	30.0
unknown	8.92	40.1	ug/l	8445634	3	8.19	8.19	6321900	30.0

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38537-006
Client Id: SB-7 0.5-1
Data File: 1M174839.D
Analysis Date: 06/14/23 06:07
Date Rec/Extracted: 06/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5.16g
Final Vol: NA
Dilution: 0.969
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0023	U	56-23-5	Carbon Tetrachloride	0.0023	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0023	U	108-90-7	Chlorobenzene	0.0023	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0023	U	75-00-3	Chloroethane	0.0023	U
79-00-5	1,1,2-Trichloroethane	0.0023	U	67-66-3	Chloroform	0.0023	U
75-34-3	1,1-Dichloroethane	0.0023	U	74-87-3	Chloromethane	0.0023	U
75-35-4	1,1-Dichloroethene	0.0023	U	156-59-2	cis-1,2-Dichloroethene	0.0023	U
87-61-6	1,2,3-Trichlorobenzene	0.0023	U	10061-01-5	cis-1,3-Dichloropropene	0.0023	U
120-82-1	1,2,4-Trichlorobenzene	0.0023	U	110-82-7	Cyclohexane	0.0023	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0023	U	124-48-1	Dibromochloromethane	0.0023	U
106-93-4	1,2-Dibromoethane	0.00076	U	75-71-8	Dichlorodifluoromethane	0.0023	U
95-50-1	1,2-Dichlorobenzene	0.0023	U	100-41-4	Ethylbenzene	0.0012	U
107-06-2	1,2-Dichloroethane	0.0023	U	98-82-8	Isopropylbenzene	0.0012	U
78-87-5	1,2-Dichloropropane	0.0023	U	79601-23-1	m&p-Xylenes	0.0017	U
541-73-1	1,3-Dichlorobenzene	0.0023	U	79-20-9	Methyl Acetate	0.0023	U
106-46-7	1,4-Dichlorobenzene	0.0023	U	108-87-2	Methylcyclohexane	0.0023	U
123-91-1	1,4-Dioxane	0.12	U	75-09-2	Methylene Chloride	0.0023	U
78-93-3	2-Butanone	0.0023	U	1634-04-4	Methyl-t-butyl ether	0.0012	U
591-78-6	2-Hexanone	0.0023	U	95-47-6	o-Xylene	0.0012	U
108-10-1	4-Methyl-2-Pentanone	0.0023	U	100-42-5	Styrene	0.0023	U
67-64-1	Acetone	0.012	U	127-18-4	Tetrachloroethene	0.0023	U
71-43-2	Benzene	0.0012	U	108-88-3	Toluene	0.0012	U
74-97-5	Bromochloromethane	0.0023	U	156-60-5	trans-1,2-Dichloroethene	0.0023	U
75-27-4	Bromodichloromethane	0.0023	U	10061-02-6	trans-1,3-Dichloropropene	0.0023	U
75-25-2	Bromoform	0.0023	U	79-01-6	Trichloroethene	0.0023	U
74-83-9	Bromomethane	0.0023	U	75-69-4	Trichlorofluoromethane	0.0023	U
75-15-0	Carbon Disulfide	0.0023	U	75-01-4	Vinyl Chloride	0.0023	U
1330-20-7	Xylenes (Total)	0.0012	U				

Worksheet #: 696057

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1e

ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AD38537-006
Client Id: SB-7 0.5-1
Data File: 1M174839.D
Analysis Date: 06/14/23 06:07
Date Rec/Extracted: 06/13/23-NA

Matrix: Soil
Initial Vol: 5.16g
Final Vol: NA
Dilution: 0.969
Solids: 83
Method: EPA 8260D

Units: mg/Kg

	Cas #	Compound	RT	Conc
1		No Unknown Compounds Detected	0.00	0 J

Worksheet #: 696057

Total Tentatively Identified Concentration 0

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

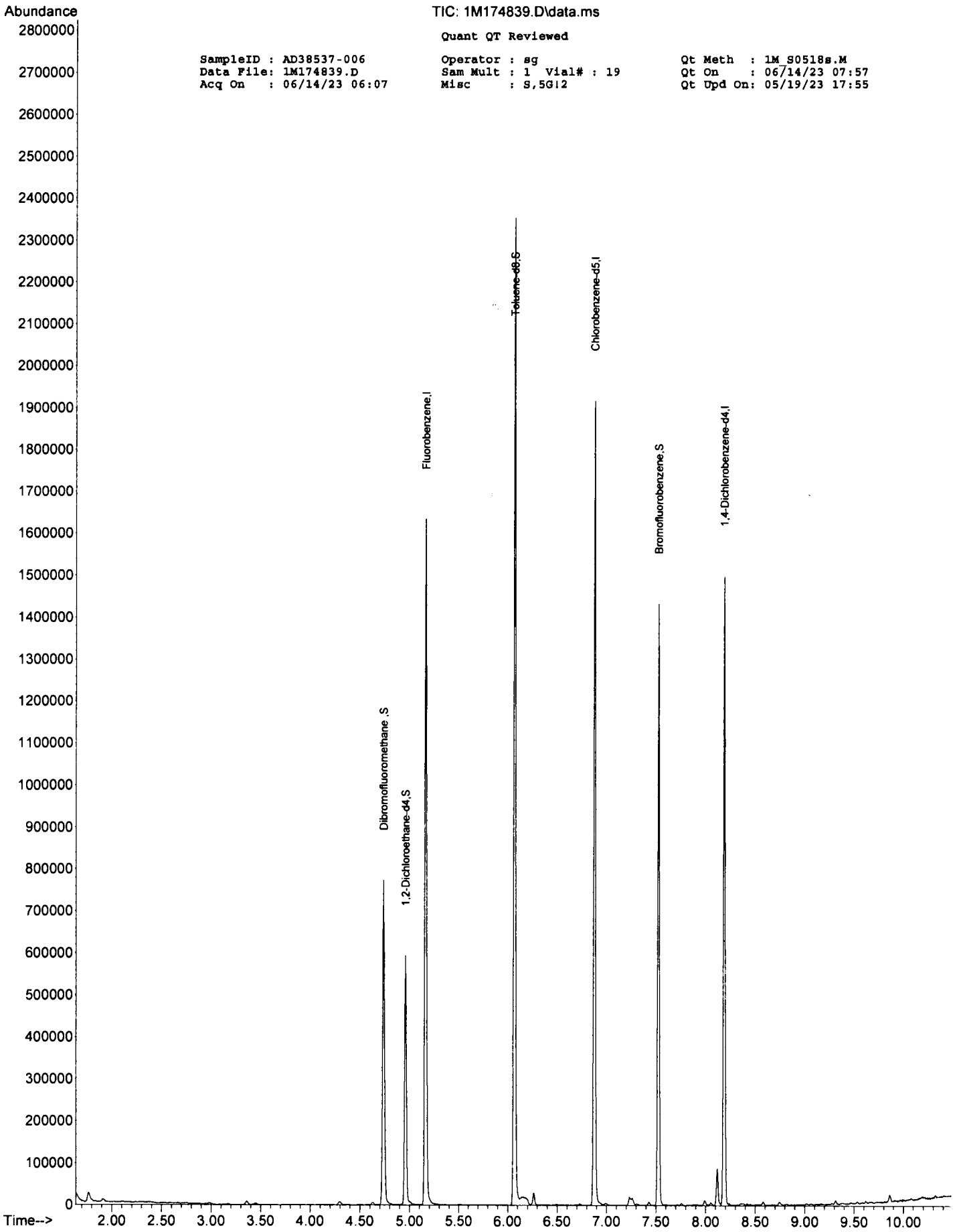
Quantitation Report (QT Reviewed)

SampleID : AD38537-006 Operator : sg Qt Meth : 1M_S0518s.M
Data File: 1M174839.D Sam Mult : 1 Vial# : 19 Qt On : 06/14/23 07:57
Acq On : 06/14/23 06:07 Misc : S,5G!2 Qt Upd On: 05/19/23 17:55

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.161	96	1032059	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.878	117	819825	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.187	152	311858	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.737	111	317792	34.32	ug/l	0.00
Spiked Amount 30.000			Recovery =	114.40%		
39) 1,2-Dichloroethane-d4	4.959	67	141832	27.20	ug/l	0.00
Spiked Amount 30.000			Recovery =	90.67%		
66) Toluene-d8	6.068	98	1095376	35.24	ug/l	0.00
Spiked Amount 30.000			Recovery =	117.47%		
76) Bromofluorobenzene	7.524	174	300616	40.67	ug/l	0.00
Spiked Amount 30.000			Recovery =	135.57%		
Target Compounds						Qvalue
No Library Search Compounds Found						

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 1M174839.D\data.ms
Quant QT Reviewed
SampleID : AD38537-006
Data File: 1M174839.D
Acq On : 06/14/23 06:07
Operator : sg
Sam Mult : 1 Vial# : 19
Misc : S,5G12
Qt Meth : 1M_S0518s.M
Qt On : 06/14/23 07:57
Qt Upd On: 05/19/23 17:55
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

LSC Area Percent Report

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174839.D
Acq On : 14 Jun 2023 06:07
Operator : sg
Sample : AD38537-006
Misc : S,5G!2
ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Title : @GCMS_1,ug,624,8260

Signal : TIC: 1M174839.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.766	30	40	50	rBV	23215	43699	1.57%	0.349%
2	4.737	952	964	984	rBV	773668	1063653	38.15%	8.506%
3	4.959	1023	1033	1045	rBV	593732	760807	27.29%	6.084%
4	5.161	1086	1096	1116	rBV	1634707	2045381	73.35%	16.357%
5	6.068	1364	1378	1395	rBV	2354104	2788365	100.00%	22.299%
6	6.261	1431	1438	1449	rVB2	28630	38127	1.37%	0.305%
7	6.878	1619	1630	1646	rBV	1917701	2280901	81.80%	18.241%
8	7.524	1820	1831	1845	rBV	1434513	1656335	59.40%	13.246%
9	8.119	2006	2016	2027	rBV	87492	107952	3.87%	0.863%
10	8.187	2027	2037	2050	rVV	1498310	1719058	61.65%	13.748%

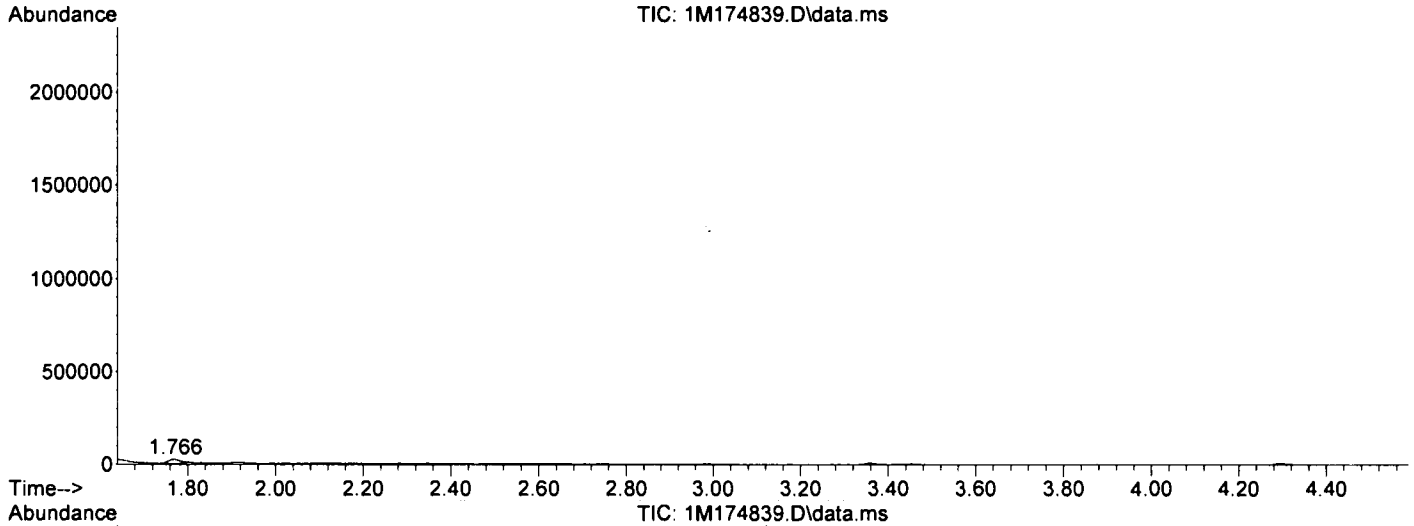
Sum of corrected areas: 12504278

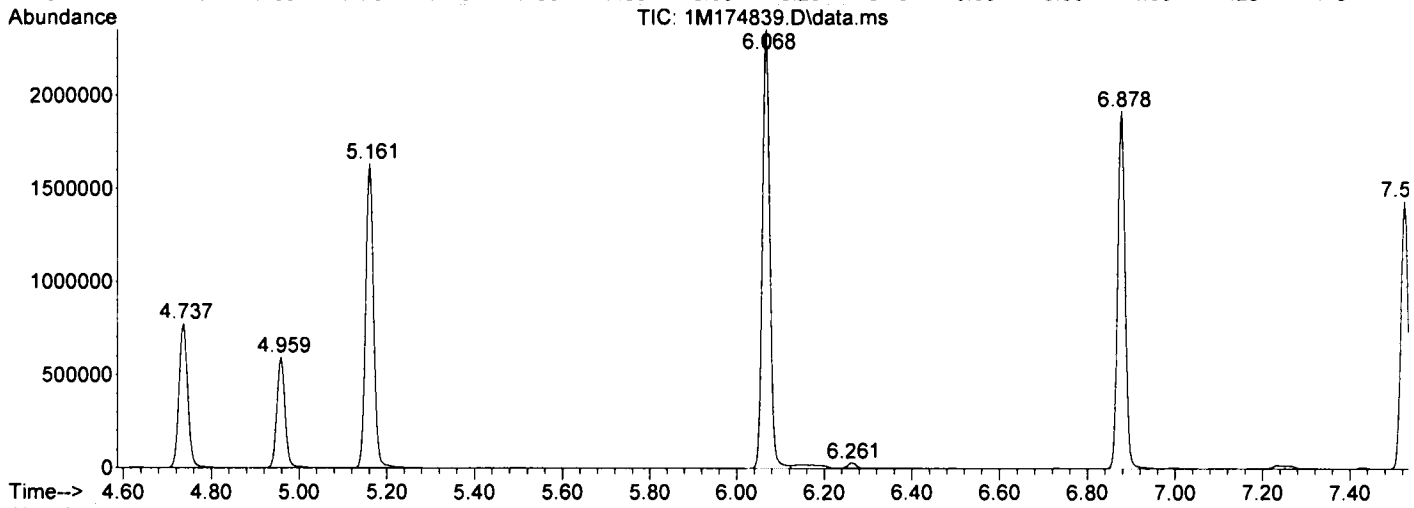
LSC Report - Integrated Chromatogram

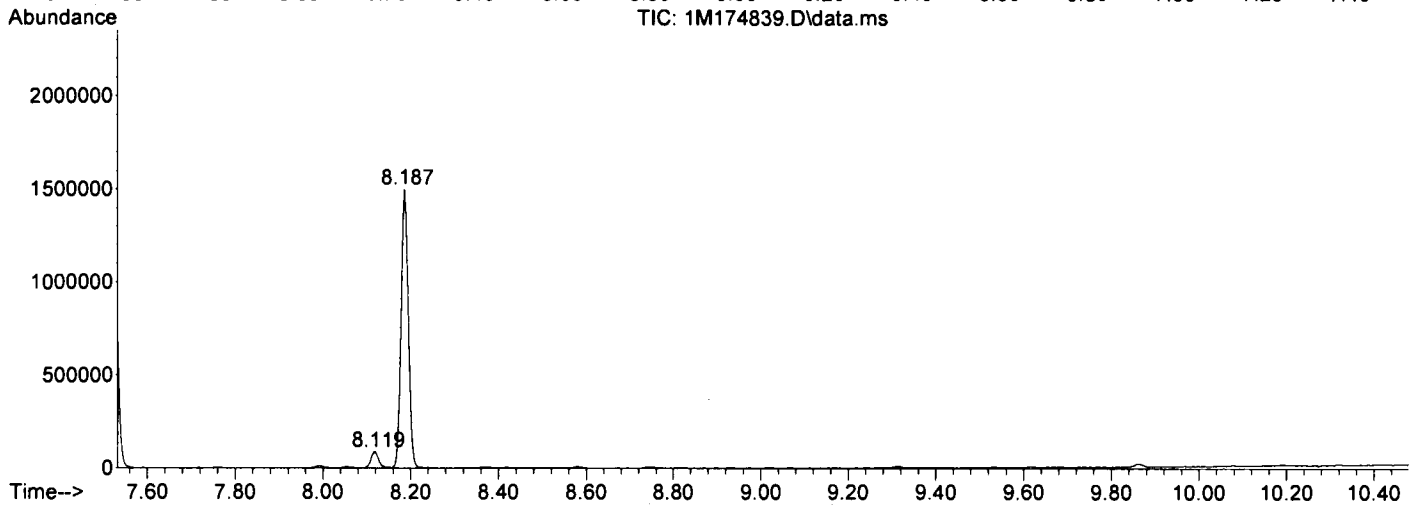
Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174839.D
Acq On : 14 Jun 2023 06:07
Operator : sg
Sample : AD38537-006
Misc : S,5G!2
ALS Vial : 19 Sample Multiplier: 1

Quant Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Quant Title : @GCMS_1,ug,624,8260

TIC Library : G:\GCMSDATA\WILEY138.L
TIC Integration Parameters: LSCINT.P







Tentatively Identified Compound (LSC) summary

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174839.D
Acq On : 14 Jun 2023 06:07
Operator : sg
Sample : AD38537-006
Misc : S,5G!2
ALS Vial : 19 Sample Multiplier: 1

Quant Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Quant Title : @GCMS_1,ug,624,8260

TIC Library : G:\GCMSDATA\WILEY138.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard ExpRT	Internal Standard ActRt	Internal Standard Resp	Internal Standard Conc

No Library Search Compounds Detected
****

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38537-007
Client Id: SB-8 0-2
Data File: 1M174840.D
Analysis Date: 06/14/23 06:28
Date Rec/Extracted: 06/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5.43g
Final Vol: NA
Dilution: 0.921
Solids: 91

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	56-23-5	Carbon Tetrachloride	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	U	75-00-3	Chloroethane	0.0020	U
79-00-5	1,1,2-Trichloroethane	0.0020	U	67-66-3	Chloroform	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	74-87-3	Chloromethane	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	156-59-2	cis-1,2-Dichloroethene	0.0020	U
87-61-6	1,2,3-Trichlorobenzene	0.0020	U	10061-01-5	cis-1,3-Dichloropropene	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	U	110-82-7	Cyclohexane	0.0020	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
106-93-4	1,2-Dibromoethane	0.00066	U	75-71-8	Dichlorodifluoromethane	0.0020	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	100-41-4	Ethylbenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.0020	U	98-82-8	Isopropylbenzene	0.0010	U
78-87-5	1,2-Dichloropropane	0.0020	U	79601-23-1	m&p-Xylenes	0.0015	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	79-20-9	Methyl Acetate	0.0020	U
106-46-7	1,4-Dichlorobenzene	0.0020	U	108-87-2	Methylcyclohexane	0.0020	U
123-91-1	1,4-Dioxane	0.10	U	75-09-2	Methylene Chloride	0.0020	U
78-93-3	2-Butanone	0.0020	U	1634-04-4	Methyl-t-butyl ether	0.0010	U
591-78-6	2-Hexanone	0.0020	U	95-47-6	o-Xylene	0.0010	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	100-42-5	Styrene	0.0020	U
67-64-1	Acetone	0.010	U	127-18-4	Tetrachloroethene	0.0020	U
71-43-2	Benzene	0.0010	U	108-88-3	Toluene	0.0010	U
74-97-5	Bromochloromethane	0.0020	U	156-60-5	trans-1,2-Dichloroethene	0.0020	U
75-27-4	Bromodichloromethane	0.0020	U	10061-02-6	trans-1,3-Dichloropropene	0.0020	U
75-25-2	Bromoform	0.0020	U	79-01-6	Trichloroethene	0.0020	U
74-83-9	Bromomethane	0.0020	U	75-69-4	Trichlorofluoromethane	0.0020	U
75-15-0	Carbon Disulfide	0.0020	U	75-01-4	Vinyl Chloride	0.0020	U
1330-20-7	Xylenes (Total)	0.0010	U				

Worksheet #: 696057

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1e

ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AD38537-007	Matrix: Soil
Client Id: SB-8 0-2	Initial Vol: 5.43g
Data File: 1M174840.D	Final Vol: NA
Analysis Date: 06/14/23 06:28	Dilution: 0.921
Date Rec/Extracted: 06/13/23-NA	Solids: 91
	Method: EPA 8260D

Units: mg/Kg

	Cas #	Compound	RT	Conc
1		No Unknown Compounds Detected	0.00	0J

Worksheet #: 696057

Total Tentatively Identified Concentration 0

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

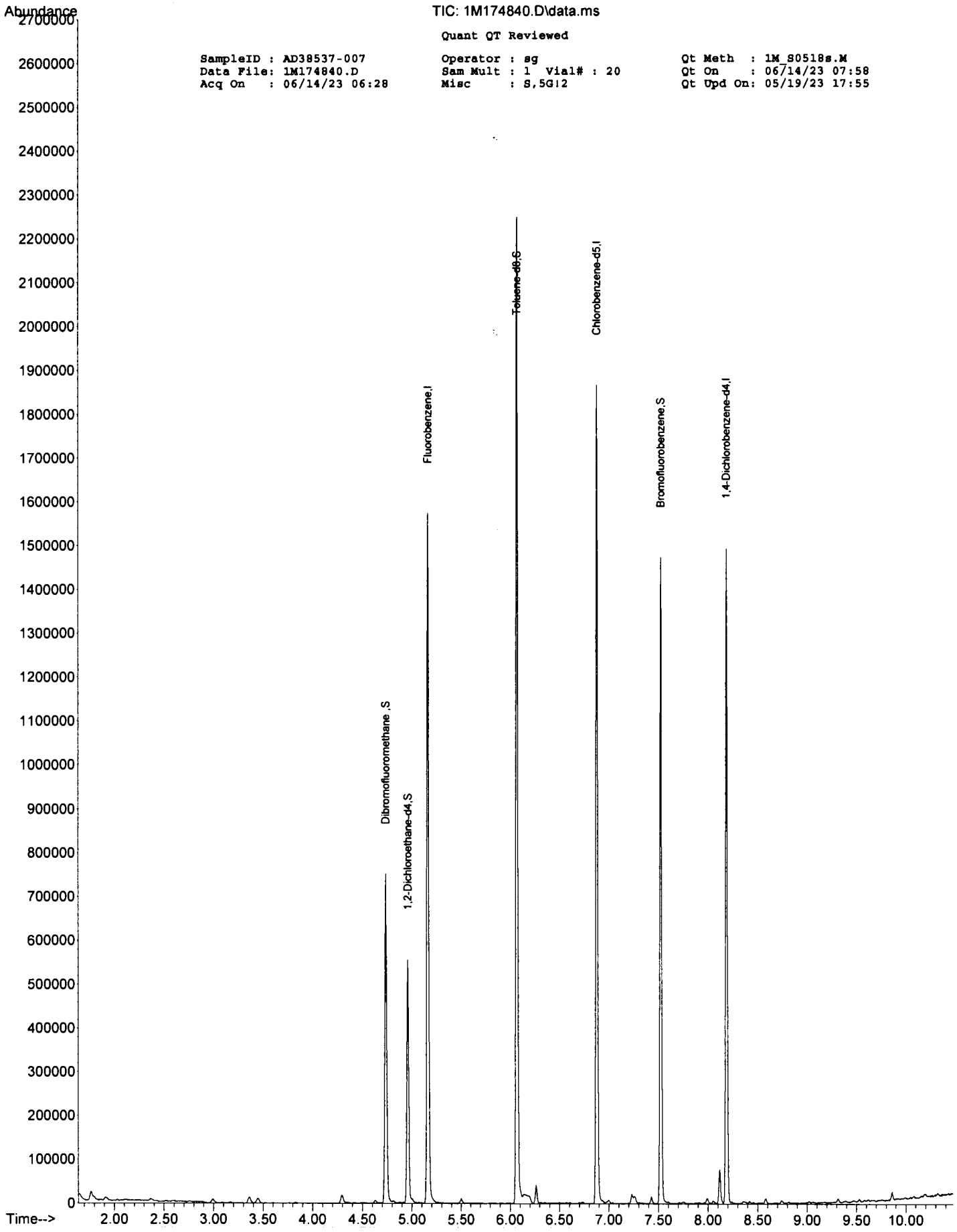
Quantitation Report (QT Reviewed)

SampleID : AD38537-007 Operator : sg Qt Meth : 1M_S0518s.M
Data File: 1M174840.D Sam Mult : 1 Vial# : 20 Qt On : 06/14/23 07:58
Acq On : 06/14/23 06:28 Misc : S,5G!2 Qt Upd On: 05/19/23 17:55

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.161	96	1004962	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.878	117	795243	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.187	152	310983	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.737	111	302021	33.50	ug/l	0.00
Spiked Amount 30.000			Recovery = 111.67%			
39) 1,2-Dichloroethane-d4	4.959	67	134633	26.52	ug/l	0.00
Spiked Amount 30.000			Recovery = 88.40%			
66) Toluene-d8	6.068	98	1055185	35.00	ug/l	0.00
Spiked Amount 30.000			Recovery = 116.67%			
76) Bromofluorobenzene	7.524	174	305142	41.40	ug/l	0.00
Spiked Amount 30.000			Recovery = 138.00%			
Target Compounds						Qvalue
No Library Search Compounds Found						

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 1M174840.D\data.ms
Quant QT Reviewed
SampleID : AD38537-007
Data File: 1M174840.D
Acq On : 06/14/23 06:28
Operator : sg
Sam Mult : 1 Vial# : 20
Misc : S,5G12
Qt Meth : 1M_S0518s.M
Qt On : 06/14/23 07:58
Qt Upd On: 05/19/23 17:55
Dibromofluoromethane .S
1,2-Dichloroethane-d4.S
Fluorobenzene.I
Toluene-d8.S
Chlorobenzene-d5.I
Bromofluorobenzene.S
1,4-Dichlorobenzene-d4.I
Time-->

LSC Area Percent Report

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174840.D
Acq On : 14 Jun 2023 06:28
Operator : sg
Sample : AD38537-007
Misc : S,5G!2
ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Title : @GCMS_1,ug,624,8260

Signal : TIC: 1M174840.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.763	30	39	47	rBV2	20136	33673	1.26%	0.276%
2	4.737	951	964	980	rBV	751975	1011981	37.82%	8.283%
3	4.959	1022	1033	1044	rBV	555384	713762	26.68%	5.842%
4	5.161	1084	1096	1111	rBV	1573879	1989387	74.35%	16.283%
5	6.068	1365	1378	1394	rBV	2249953	2675674	100.00%	21.900%
6	6.261	1429	1438	1448	rBV2	41369	53076	1.98%	0.434%
7	6.878	1618	1630	1645	rBV	1866663	2215803	82.81%	18.136%
8	7.524	1818	1831	1845	rBV	1473382	1698758	63.49%	13.904%
9	8.119	2005	2016	2027	rBV2	76673	95920	3.58%	0.785%
10	8.187	2027	2037	2049	rBV	1492358	1729380	64.63%	14.155%

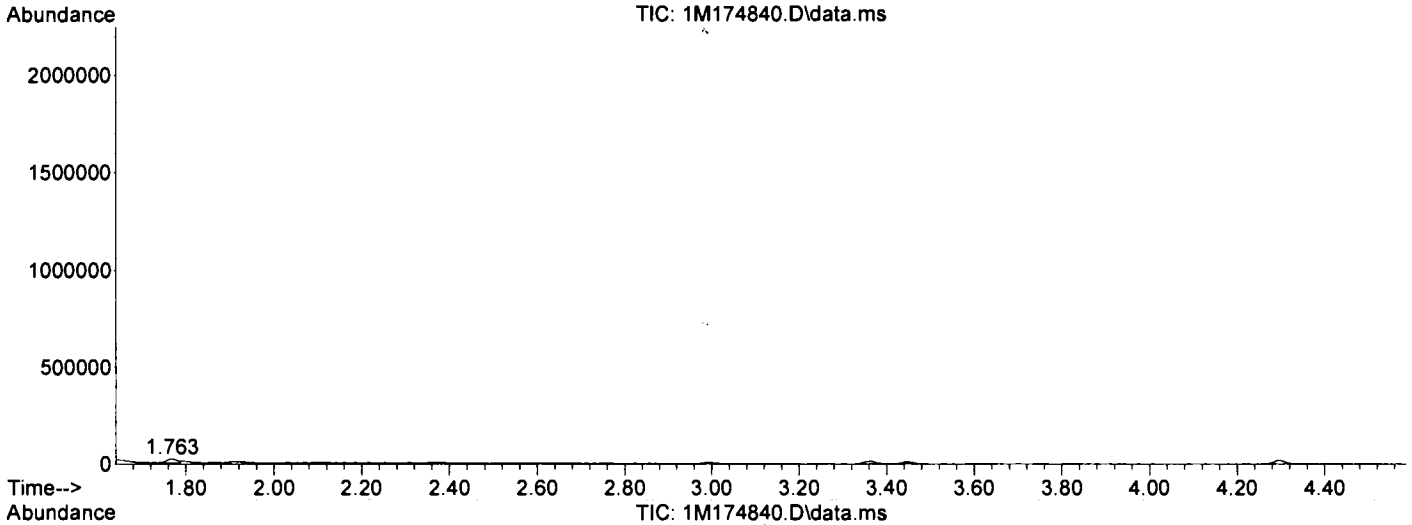
Sum of corrected areas: 12217414

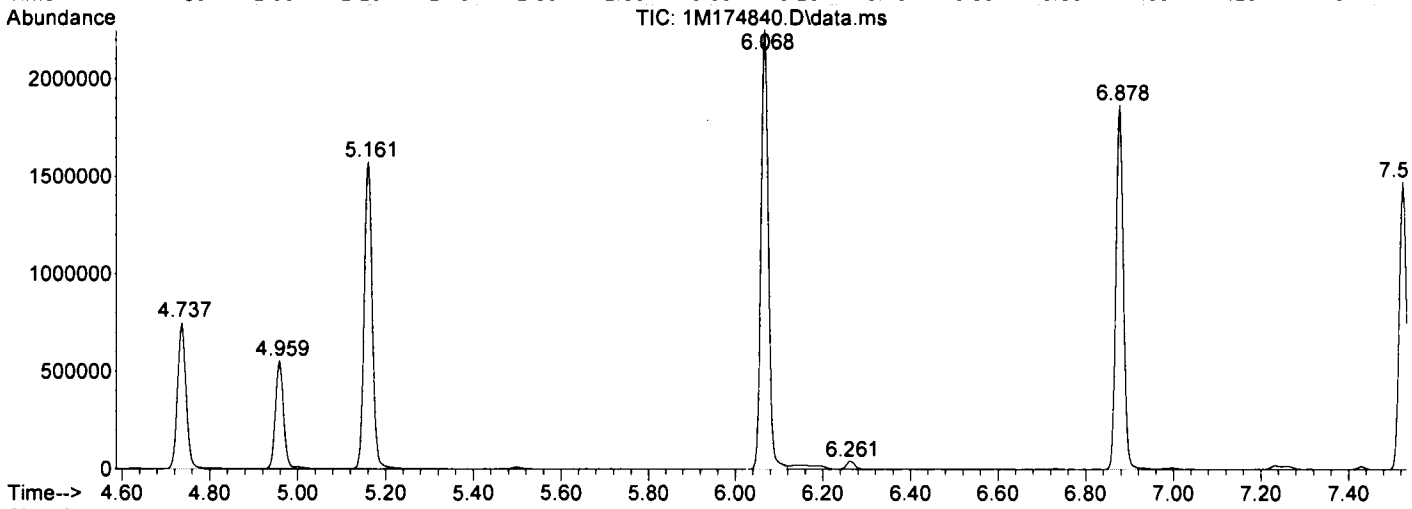
LSC Report - Integrated Chromatogram

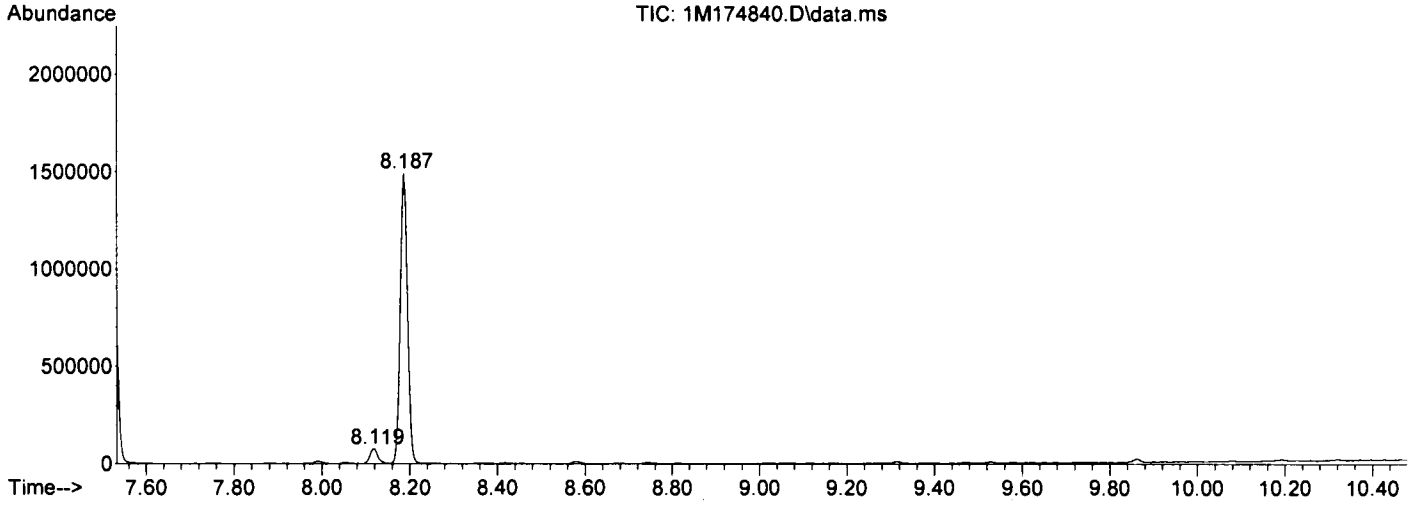
Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174840.D
Acq On : 14 Jun 2023 06:28
Operator : sg
Sample : AD38537-007
Misc : S,5G!2
ALS Vial : 20 Sample Multiplier: 1

Quant Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Quant Title : @GCMS_1,ug,624,8260

TIC Library : G:\GCMSDATA\WILEY138.L
TIC Integration Parameters: LSCINT.P







Tentatively Identified Compound (LSC) summary

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174840.D
Acq On : 14 Jun 2023 06:28
Operator : sg
Sample : AD38537-007
Misc : S,5G!2
ALS Vial : 20 Sample Multiplier: 1

Quant Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Quant Title : @GCMS_1,ug,624,8260

TIC Library : G:\GCMSDATA\WILEY138.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard ExpRT	Internal Standard ActRt	Internal Standard Resp	Internal Standard Conc

No Library Search Compounds Detected
****

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38537-008
Client Id: SB-9 10-12
Data File: 1M174841.D
Analysis Date: 06/14/23 06:49
Date Rec/Extracted: 06/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 6.85g
Final Vol: NA
Dilution: 0.730
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0018	U	56-23-5	Carbon Tetrachloride	0.0018	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0018	U	108-90-7	Chlorobenzene	0.0018	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0018	U	75-00-3	Chloroethane	0.0018	U
79-00-5	1,1,2-Trichloroethane	0.0018	U	67-66-3	Chloroform	0.0018	U
75-34-3	1,1-Dichloroethane	0.0018	U	74-87-3	Chloromethane	0.0018	U
75-35-4	1,1-Dichloroethene	0.0018	U	156-59-2	cis-1,2-Dichloroethene	0.0018	U
87-61-6	1,2,3-Trichlorobenzene	0.0018	U	10061-01-5	cis-1,3-Dichloropropene	0.0018	U
120-82-1	1,2,4-Trichlorobenzene	0.0018	U	110-82-7	Cyclohexane	0.0018	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0018	U	124-48-1	Dibromochloromethane	0.0018	U
106-93-4	1,2-Dibromoethane	0.00057	U	75-71-8	Dichlorodifluoromethane	0.0018	U
95-50-1	1,2-Dichlorobenzene	0.0018	U	100-41-4	Ethylbenzene	0.00088	U
107-06-2	1,2-Dichloroethane	0.0018	U	98-82-8	Isopropylbenzene	0.00088	U
78-87-5	1,2-Dichloropropane	0.0018	U	79601-23-1	m&p-Xylenes	0.0013	U
541-73-1	1,3-Dichlorobenzene	0.0018	U	79-20-9	Methyl Acetate	0.0018	U
106-46-7	1,4-Dichlorobenzene	0.0018	U	108-87-2	Methylcyclohexane	0.0018	U
123-91-1	1,4-Dioxane	0.088	U	**75-09-2**	**Methylene Chloride**	**0.0018**	**0.0041**
78-93-3	2-Butanone	0.0018	U	1634-04-4	Methyl-t-butyl ether	0.00088	U
591-78-6	2-Hexanone	0.0018	U	95-47-6	o-Xylene	0.00088	U
108-10-1	4-Methyl-2-Pentanone	0.0018	U	100-42-5	Styrene	0.0018	U
67-64-1	Acetone	0.0088	U	127-18-4	Tetrachloroethene	0.0018	U
71-43-2	Benzene	0.00088	U	108-88-3	Toluene	0.00088	U
74-97-5	Bromochloromethane	0.0018	U	156-60-5	trans-1,2-Dichloroethene	0.0018	U
75-27-4	Bromodichloromethane	0.0018	U	10061-02-6	trans-1,3-Dichloropropene	0.0018	U
75-25-2	Bromoform	0.0018	U	79-01-6	Trichloroethene	0.0018	U
74-83-9	Bromomethane	0.0018	U	75-69-4	Trichlorofluoromethane	0.0018	U
75-15-0	**Carbon Disulfide**	**0.0018**	**0.0029**	75-01-4	Vinyl Chloride	0.0018	U
1330-20-7	Xylenes (Total)	0.00088	U				

Worksheet #: 696057

Total Target Concentration 0.007

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1e

ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: AD38537-008
Client Id: SB-9 10-12
Data File: 1M174841.D
Analysis Date: 06/14/23 06:49
Date Rec/Extracted: 06/13/23-NA

Matrix: Soil
Initial Vol: 6.85g
Final Vol: NA
Dilution: 0.730
Solids: 83
Method: EPA 8260D

Units: mg/Kg

	Cas #	Compound	RT	Conc
1		No Unknown Compounds Detected	0.00	0 J

Worksheet #: 696057

Total Tentatively Identified Concentration 0

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Quantitation Report (QT Reviewed)

SampleID : AD38537-008 Operator : sg Qt Meth : 1M_S0518s.M
Data File: 1M174841.D Sam Mult : 1 Vial# : 21 Qt On : 06/14/23 07:58
Acq On : 06/14/23 06:49 Misc : S,5G!2 Qt Upd On: 05/19/23 17:55

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.161	96	1146019	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.878	117	1095488	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.187	152	593540	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.737	111	332992	32.39	ug/l	0.00
Spiked Amount 30.000			Recovery = 107.97%			
39) 1,2-Dichloroethane-d4	4.958	67	151214	26.12	ug/l	0.00
Spiked Amount 30.000			Recovery = 87.07%			
66) Toluene-d8	6.068	98	1259739	30.33	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.10%			
76) Bromofluorobenzene	7.524	174	490215	34.85	ug/l	0.00
Spiked Amount 30.000			Recovery = 116.17%			
Target Compounds						Qvalue
15) Methylene Chloride	3.357	84	21281m	4.6237	ug/l	
20) Carbon Disulfide	3.168	76	39568m	3.2500	ug/l	

No Library Search Compounds Found

(#) = qualifier out of range (m) = manual integration (+) = signals summed

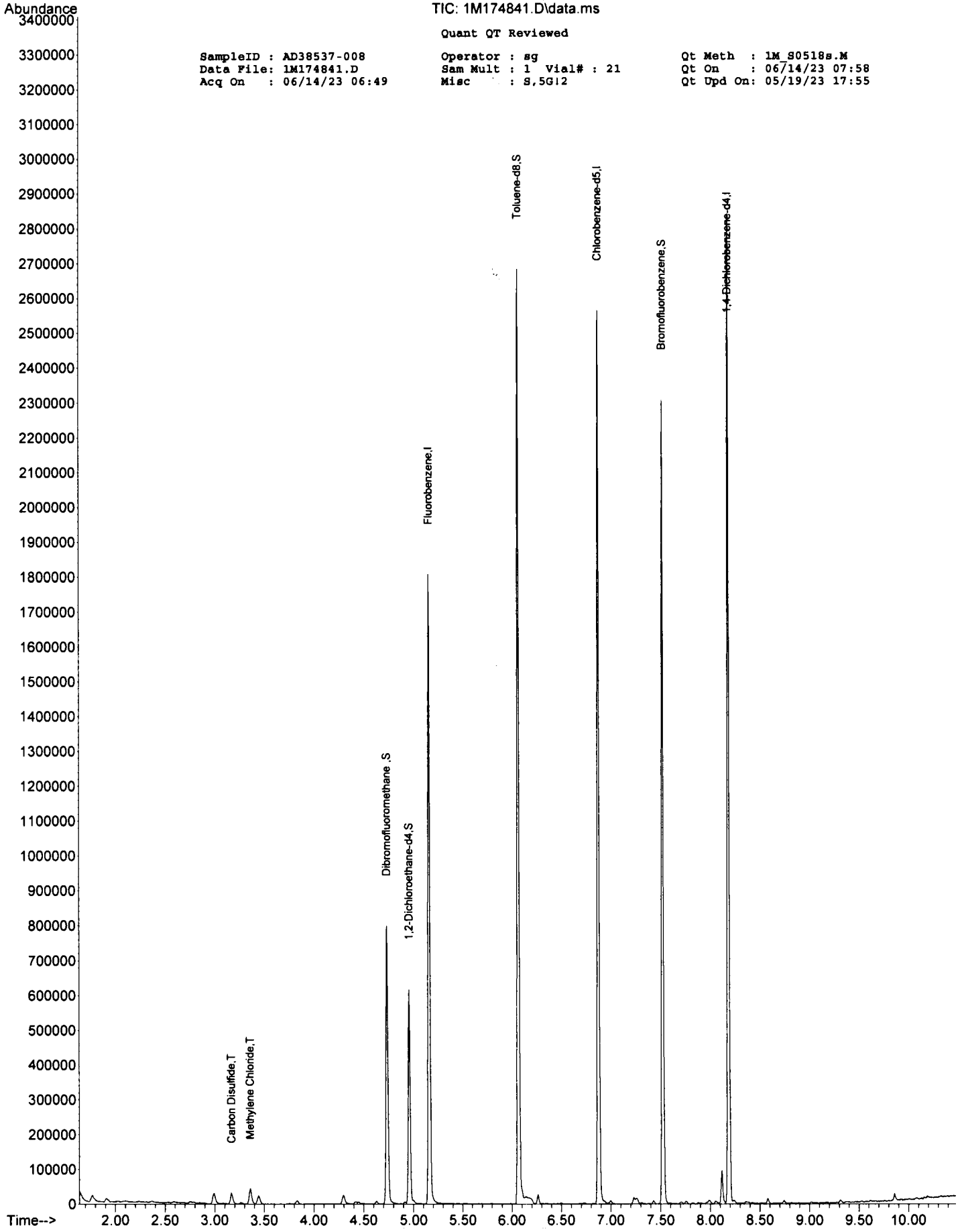
TIC: 1M174841.D\data.ms

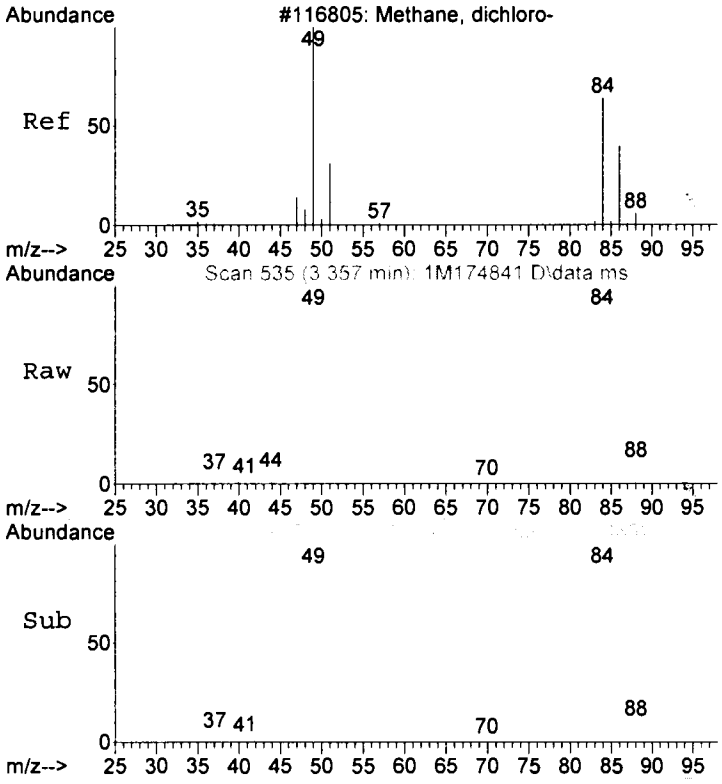
Quant QT Reviewed

SampleID : AD38537-008
Data File: 1M174841.D
Acq On : 06/14/23 06:49

Operator : sg
Sam Mult : 1 Vial# : 21
Misc : S,5G12

Qt Meth : 1M_S0518s.M
Qt On : 06/14/23 07:58
Qt Upd On: 05/19/23 17:55

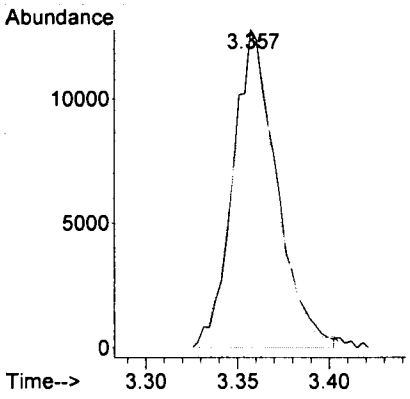


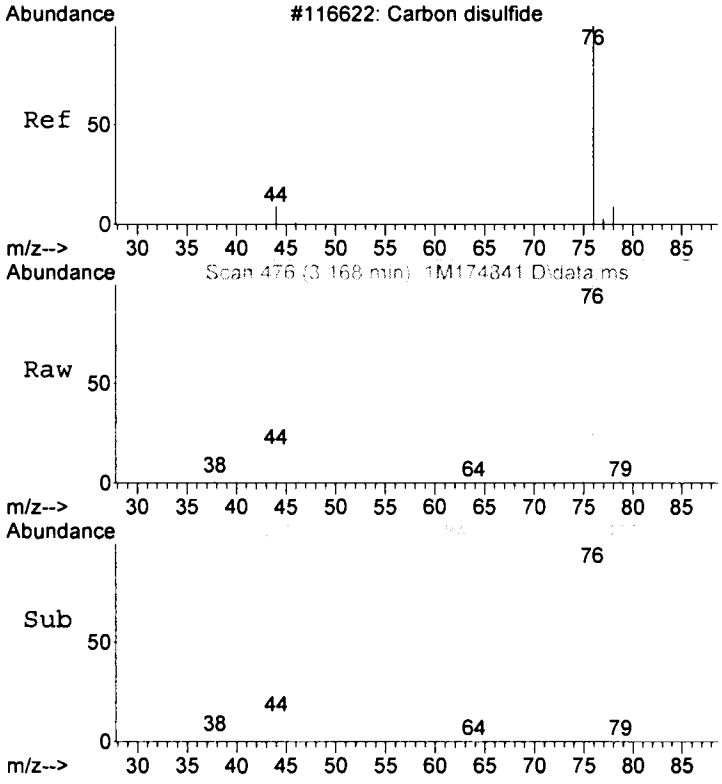


#15
Methylene Chloride
Concen: 4.62 ug/l m
RT: 3.357 min Scan# 535
Delta R.T. 0.013 min
Lab File: 1M174841.D
Acq: 14 Jun 2023 06:49

Tgt Ion: 84 Resp: 21281

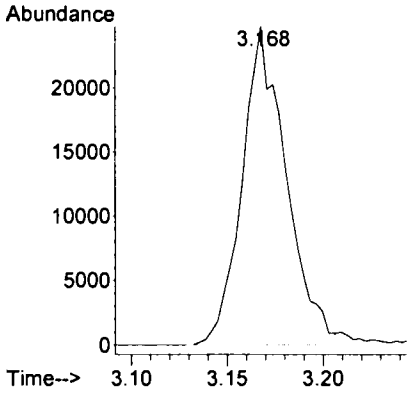
Ion	Ratio	Lower	Upper
84	100		
49	90.9	41.5	165.9
86	60.7	26.6	106.6





#20
Carbon Disulfide
Concen: 3.25 ug/l m
RT: 3.168 min Scan# 476
Delta R.T. 0.009 min
Lab File: 1M174841.D
Acq: 14 Jun 2023 06:49

Tgt Ion: 76 Resp: 39568



LSC Area Percent Report

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174841.D
Acq On : 14 Jun 2023 06:49
Operator : sg
Sample : AD38537-008
Misc : S,5G!2
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Title : @GCMS_1,ug,624,8260

Signal : TIC: 1M174841.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.360	525	536	552	rBV	44828	79267	2.41%	0.479%
2	4.737	950	964	977	rBV	798978	1108987	33.78%	6.707%
3	4.958	1023	1033	1044	rBV2	613594	790234	24.07%	4.779%
4	5.161	1085	1096	1115	rBV	1806614	2268863	69.10%	13.721%
5	6.068	1366	1378	1395	rBV	2684502	3194633	97.30%	19.320%
6	6.878	1620	1630	1645	rBV	2563803	3041895	92.65%	18.396%
7	7.524	1821	1831	1848	rBV	2307067	2650925	80.74%	16.032%
8	8.119	2008	2016	2027	rBV2	95494	117079	3.57%	0.708%
9	8.187	2027	2037	2049	rBV	2837066	3283374	100.00%	19.857%

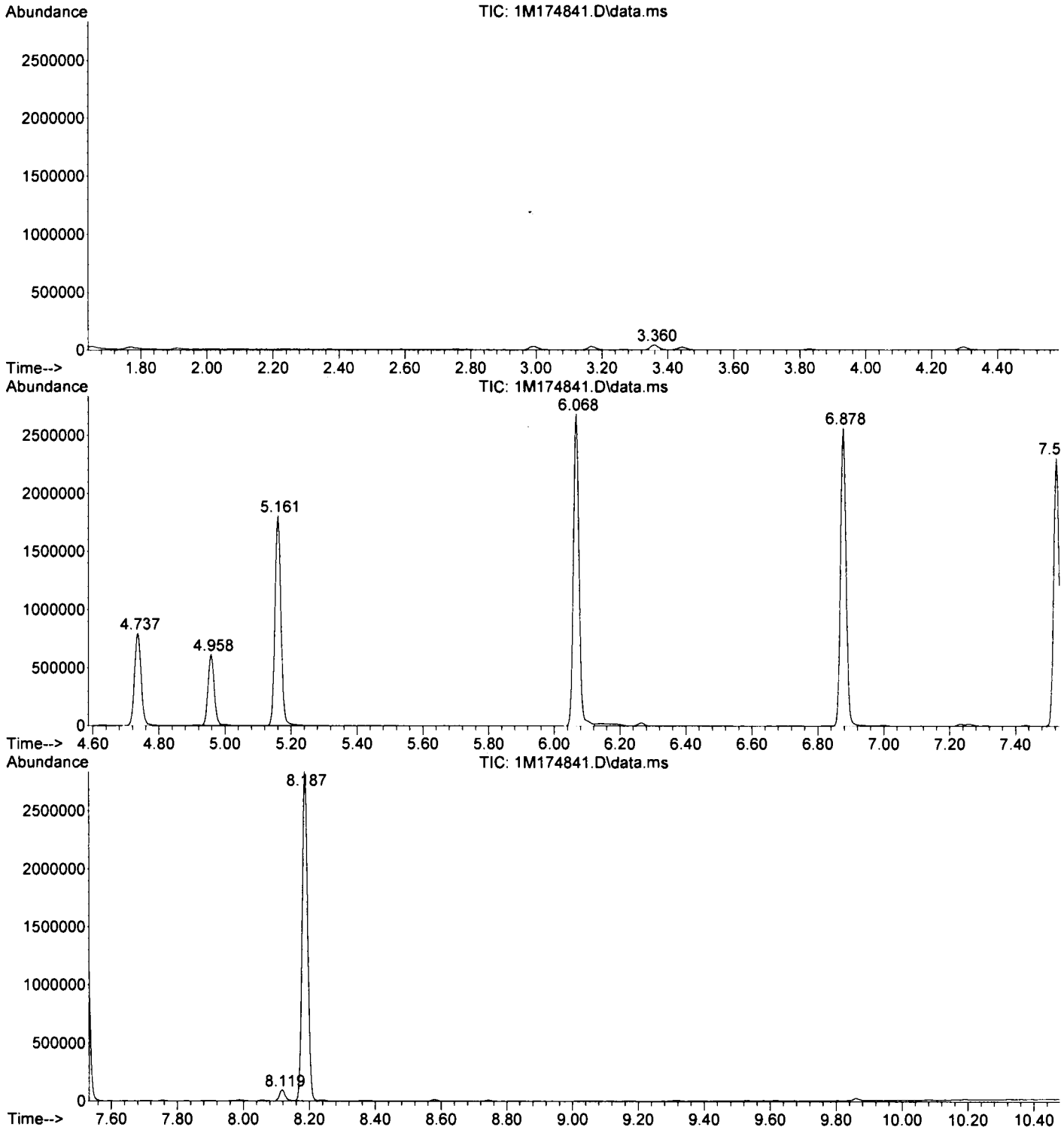
Sum of corrected areas: 16535257

LSC Report - Integrated Chromatogram

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174841.D
Acq On : 14 Jun 2023 06:49
Operator : sg
Sample : AD38537-008
Misc : S,5G!2
ALS Vial : 21 Sample Multiplier: 1

Quant Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Quant Title : @GCMS_1,ug,624,8260

TIC Library : G:\GCMSDATA\WILEY138.L
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound (LSC) summary

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174841.D
Acq On : 14 Jun 2023 06:49
Operator : sg
Sample : AD38537-008
Misc : S,5G!2
ALS Vial : 21 Sample Multiplier: 1

Quant Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Quant Title : @GCMS_1,ug,624,8260

TIC Library : G:\GCMSDATA\WILEY138.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard ExpRT	Internal Standard ActRt	Internal Standard Resp	Internal Standard Conc

No Library Search Compounds Detected
****

GC/MS Volatile Data
Standards Data

3061310 0170

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_1

Level #	Data File:	Cal Identifier:	Analysis Date/Time	Level #	Data File:	Cal Identifier:	Analysis Date/Time
1	1M173762.D	CAL @ 20 PPB	05/18/23 23:54	2	1M173761.D	CAL @ 5 PPB	05/18/23 23:33
3	1M173760.D	CAL @ 2 PPB	05/18/23 23:12	4	1M173763.D	CAL @ 50 PPB	05/19/23 00:15
5	1M173765.D	CAL @ 100 PPB	05/19/23 00:56	6	1M173767.D	CAL @ 250 PPB	05/19/23 01:38
7	1M173770.D	CAL @ 500 PPB	05/19/23 02:40	8	1M173759.D	CAL @ 1 PPB	05/18/23 22:51
9	1M173758.D	CAL @ 0.5 PPB	05/18/23 22:30				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.1249	0.1220	0.1174	0.1427	0.1484	0.1495	0.1333	-----	-----	0.134	1.67	0.996	1.00	9.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dichlorodifluorometha	1	0	Avg	0.0798	0.0833	0.0809	0.0923	0.0960	0.0908	0.0857	-----	-----	0.0870	1.66	0.999	1.00	7.1	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloromethane	1	0	Avg	0.1139	0.1212	0.1173	0.1247	0.1295	0.1250	0.1121	-----	-----	0.121	1.82	0.997	1.00	5.3	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromomethane	1	0	Avg	0.0868	0.0824	0.0852	0.1029	0.1072	0.1021	0.0865	-----	-----	0.0933	2.21	0.992	1.00	11	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Chloride	1	0	Avg	0.1197	0.1133	0.1181	0.1335	0.1389	0.1362	0.1215	-----	-----	0.126	1.92	0.996	1.00	8.0	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroethane	1	0	Avg	0.0835	0.0785	0.0861	0.0881	0.0933	0.0899	0.0810	-----	-----	0.0858	2.29	0.997	1.00	6.0	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichlorofluoromethan	1	0	Avg	0.1759	0.1742	0.1992	0.1888	0.1962	0.1817	0.1687	-----	-----	0.184	2.51	0.998	1.00	6.3	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl ether	1	0	Avg	0.1227	0.1235	0.1404	0.1292	0.1345	0.1305	0.1191	-----	-----	0.129	2.74	0.998	1.00	5.8	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Furan	1	0	Avg	0.2098	0.2231	0.2050	0.2241	0.2341	0.2268	0.2014	-----	-----	0.218	2.78	0.996	1.00	5.7	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1.1.2-Trichloro-1.2.2-tr	1	0	Avg	0.0847	0.0845	0.0950	0.0880	0.0918	0.0809	0.0786	-----	-----	0.0863	2.94	0.999	1.00	6.7	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methylene Chloride	1	0	Avg	0.1192	0.1237	0.1213	0.1220	0.1265	0.1214	0.1088	-----	-----	0.120	3.34	0.997	1.00	4.7	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acrolein	1	0	Avg	0.0252	0.0244	0.0259	0.0239	0.0255	0.0236	0.0202	-----	-----	0.0242	2.85	0.993	1.00	7.9		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Acrylonitrile	1	0	Avg	0.0467	0.0487	0.0427	0.0450	0.0490	0.0444	0.0385	-----	-----	0.0451	3.54	0.993	1.00	8.1		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iodomethane	1	0	Qua	0.0240	0.0209	0.0204	0.0336	0.0460	0.0655	0.0778	-----	-----	0.0412	3.08	0.991	0.999	56		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acetone	1	0	Qua	0.0378	0.0445	0.0604	0.0388	0.0369	0.0332	0.0272	-----	-----	0.0399	2.98	0.988	1.00	26	0.10 a	100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Carbon Disulfide	1	0	Avg	0.2978	0.3215	0.3274	0.3217	0.3415	0.3252	0.2955	-----	-----	0.319	3.16	0.997	1.00	5.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
t-Butyl Alcohol	1	0	Avg	0.0155	0.0158	0.0180	0.0145	0.0168	0.0154	0.0132	-----	-----	0.0157	3.42	0.993	1.00	9.9		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
n-Hexane	1	0	Avg	0.1163	0.1125	0.1155	0.1294	0.1412	0.1312	0.1261	-----	-----	0.125	3.82	0.999	1.00	8.3		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Di-isopropyl-ether	1	0	Avg	0.3120	0.2770	0.2833	0.3462	0.3630	0.3601	0.3292	-----	-----	0.324	3.99	0.998	1.00	11		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1.1-Dichloroethene	1	0	Avg	0.1663	0.1657	0.1618	0.1925	0.1890	0.1804	0.1724	-----	-----	0.176	2.95	0.999	1.00	6.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl Acetate	1	0	Avg	0.0813	0.0870	0.0859	0.0745	0.0803	0.0733	0.0635	-----	-----	0.0780	3.25	0.994	1.00	11	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl-t-butyl ether	1	0	Avg	0.2778	0.2719	0.2619	0.3068	0.3307	0.3222	0.2927	0.2739	-----	0.292	3.58	0.997	1.00	8.6	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1.1-Dichloroethane	1	0	Avg	0.2093	0.2078	0.2162	0.2298	0.2378	0.2320	0.2115	-----	-----	0.221	3.95	0.998	1.00	5.6	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1.2-Dichloroethe	1	0	Avg	0.1007	0.1105	0.1056	0.1146	0.1183	0.1118	0.1018	-----	-----	0.109	3.58	0.997	1.00	6.0	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl-t-butyl ether	1	0	Avg	0.3410	0.3182	0.3085	0.3826	0.4131	0.4116	0.3787	-----	-----	0.365	4.28	0.998	1.00	12	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1.2-Dichloroethene	1	0	Avg	0.2179	0.2120	0.2147	0.2360	0.2480	0.2390	0.2188	-----	-----	0.227	4.41	0.998	1.00	6.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromochloromethane	1	0	Avg	0.1065	0.1104	0.1073	0.1133	0.1145	0.1066	0.0953	-----	-----	0.108	4.58	0.996	1.00	5.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2.2-Dichloropropane	1	0	Avg	0.1601	0.1611	0.1503	0.1778	0.1871	0.1797	0.1651	-----	-----	0.169	4.41	0.998	1.00	7.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl acetate	1	0	Avg	0.1182	0.1391	0.1229	0.1223	0.1311	0.1194	0.1047	-----	-----	0.123	4.44	0.994	1.00	8.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1.4-Dioxane	1	0	Avg	0.0014	0.0015	0.0013	0.0014	0.0016	0.0014	0.0014	-----	-----	0.00148	5.58	0.999	1.00	5.7		1000.	250.0	100.0	2500.	5000.	12500	25000		
1.1-Dichloropropene	1	0	Avg	0.1404	0.1413	0.1415	0.1544	0.1602	0.1497	0.1400	-----	-----	0.147	4.87	0.998	1.00	5.5		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroform	1	0	Avg	0.2136	0.2394	0.2716	0.2275	0.2347	0.2248	0.2035	-----	-----	0.231	4.62	0.997	1.00	9.4	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromofluoromethan	1	0	Avg	0.2714	0.2730	0.2744	0.2729	0.2730	0.2748	0.2309	0.2750	0.2765	0.269	4.73	-1	-1	5.4		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.1414	0.1390	0.1455	0.1629	0.1695	0.1595	0.1537	-----	-----	0.153	4.81	0.999	1.00	7.5	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1.2-Dichloroethane-d4	1	0	Avg	0.1533	0.1553	0.1548	0.1517	0.1512	0.1537	0.1271	0.1595	0.1573	0.152	4.96	-1	-1	6.3		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1.2-Dichloroethane	1	0	Avg	0.1996	0.2088	0.2272	0.2086	0.2160	0.2097	0.1884	-----	-----	0.208	5.00	0.997	1.00	5.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Butanone	1	0	Avg	0.0504	0.0419	0.0501	0.0488	0.0511	0.0518	0.0441	-----	-----	0.0484	4.41	0.993	0.999	7.8	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1.1.1-Trichloroethane	1	0	Avg	0.1745	0.1821	0.1730	0.1891	0.1970	0.1894	0.1737	-----	-----	0.183	4.76	0.998	1.00	5.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Carbon Tetrachloride	1	0	Avg	0.1373	0.1292	0.1351	0.1531	0.1601	0.1522	0.1399	-----	-----	0.144	4.87	0.998	1.00	7.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Acetate	1	0	Avg	0.3492	0.3398	0.3311	0.3830	0.4121	0.3984	0.3639	-----	-----	0.368	3.97	0.998	1.00	8.3		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromodichloromethan	1	0	Avg	0.1660	0.1662	0.1695	0.1781	0.1885	0.1809	0.1808	-----	-----	0.176	5.66	1.00	1.00	4.9	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.174

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_1

Level #	Data File:	Cal Identifier:	Analysis Date/Time	Level #	Data File:	Cal Identifier:	Analysis Date/Time
1	1M173762.D	CAL @ 20 PPB	05/18/23 23:54	2	1M173761.D	CAL @ 5 PPB	05/18/23 23:33
3	1M173760.D	CAL @ 2 PPB	05/18/23 23:12	4	1M173763.D	CAL @ 50 PPB	05/19/23 00:15
5	1M173765.D	CAL @ 100 PPB	05/19/23 00:56	6	1M173767.D	CAL @ 250 PPB	05/19/23 01:38
7	1M173770.D	CAL @ 500 PPB	05/19/23 02:40	8	1M173759.D	CAL @ 1 PPB	05/18/23 22:51
9	1M173758.D	CAL @ 0.5 PPB	05/18/23 22:30				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.1414	0.1415	0.1405	0.1552	0.1709	0.1560	0.1663	-----	-----	0.153	5.50	0.999	0.999	8.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromomethane	1	0	Avg	0.0711	0.0733	0.0816	0.0757	0.0787	0.0734	0.0757	-----	-----	0.0757	5.58	1.00	1.00	4.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloropropane	1	0	Avg	0.1265	0.1273	0.1200	0.1343	0.1388	0.1346	0.1330	-----	-----	0.131	5.51	1.00	1.00	4.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichloroethene	1	0	Avg	0.1062	0.1131	0.1193	0.1131	0.1192	0.1117	0.1101	-----	-----	0.113	5.37	1.00	1.00	4.2	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Benzene	1	0	Avg	0.4396	0.4290	0.4432	0.4621	0.4793	0.4506	0.4042	0.4580	-----	0.446	5.00	0.997	1.00	5.1	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
tert-Amyl methyl ether	1	0	Avg	0.2851	0.2788	0.2645	0.3210	0.3377	0.3309	0.3241	-----	-----	0.306	5.05	1.00	1.00	9.5		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iso-propylacetate	1	0	Avg	0.2358	0.2271	0.2421	0.2472	0.2691	0.2579	0.2273	-----	-----	0.244	5.00	0.995	1.00	6.4	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl methacrylate	1	0	Avg	0.1086	0.1049	0.1042	0.1563	0.1267	0.1185	0.1220	-----	-----	0.120	5.54	0.999	0.999	15	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromochloromethan	1	0	Avg	0.1221	0.1303	0.1187	0.1270	0.1351	0.1320	0.1352	-----	-----	0.129	6.55	1.00	1.00	4.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chloroethylvinylethe	1	0	Qua	0.0036	0.0022	0.0007	0.0050	0.0072	0.0103	-----	-----	-----	0.00488	5.81	0.984	1.00	72		20.00	5.00	2.00	50.00	100.0	250.0			
cis-1,3-Dichloropropen	1	0	Avg	0.1889	0.1729	0.1896	0.2040	0.2165	0.2091	0.2025	-----	-----	0.198	5.91	1.00	1.00	7.5	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,3-Dichloroprop	1	0	Avg	0.1735	0.1748	0.1728	0.1895	0.2046	0.1967	0.1921	-----	-----	0.186	6.21	1.00	1.00	6.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl methacrylate	1	0	Avg	0.1040	0.1050	0.1031	0.1210	0.1289	0.1254	0.1259	-----	-----	0.116	6.24	1.00	1.00	10	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloroethane	1	0	Avg	0.1085	0.1187	0.1235	0.1136	0.1195	0.1107	0.1061	-----	-----	0.114	6.32	0.999	1.00	5.6	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromoethane	1	0	Avg	0.1115	0.1148	0.1180	0.1151	0.1206	0.1145	0.1181	0.1216	0.1304	0.118	6.63	1.00	1.00	4.7	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	0.50
1,3-Dichloropropane	1	0	Avg	0.1945	0.1946	0.1990	0.2020	0.2100	0.1982	0.1830	-----	-----	0.197	6.42	0.998	1.00	4.2		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Methyl-2-Pentanone	1	0	Avg	0.1072	0.1012	0.1106	0.1120	0.1252	0.1162	0.1202	-----	-----	0.113	5.98	1.00	1.00	7.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Hexanone	1	0	Avg	0.0818	0.0770	0.0883	0.0840	0.0932	0.0870	0.0753	-----	-----	0.0839	6.44	0.994	1.00	7.6	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Tetrachloroethene	1	0	Avg	0.0850	0.0895	0.0857	0.0883	0.0922	0.0839	0.0805	-----	-----	0.0865	6.42	0.999	1.00	4.5	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Toluene-d8	1	0	Avg	1.1597	1.1501	1.1343	1.1431	1.1389	1.1353	1.0950	1.1419	1.1375	1.14	6.06	-1	-1	1.6		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.2870	0.3018	0.3138	0.3000	0.3111	0.2928	0.2977	0.3857	-----	0.311	6.10	1.00	1.00	10	0.40 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.1083	0.1145	0.1167	0.1128	0.1210	0.1141	0.1105	-----	-----	0.114	6.93	0.999	1.00	3.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chlorobenzene	1	0	Avg	0.3245	0.3452	0.3617	0.3278	0.3406	0.3204	0.3332	-----	-----	0.336	6.89	1.00	1.00	4.2	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Butyl acrylate	1	0	Avg	0.3670	0.3401	0.3393	0.4066	0.4198	0.4925	0.5295	-----	-----	0.414	7.15	0.998	1.00	18	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Amyl acetate	1	0	Avg	0.3158	0.2938	0.2973	0.3405	0.3432	0.3546	0.3493	-----	-----	0.328	7.28	1.00	1.00	7.7	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromoform	1	0	Avg	0.1326	0.1378	0.1529	0.1417	0.1416	0.1511	0.1591	-----	-----	0.145	7.36	0.999	1.00	6.4	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethylbenzene	1	0	Avg	0.2409	0.2403	0.2527	0.2592	0.2345	0.2148	0.2546	0.2502	-----	0.243	6.94	0.994	0.999	5.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.2562	0.2754	0.2922	0.2624	0.2497	0.2420	0.2513	-----	-----	0.261	7.58	1.00	1.00	6.6	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromofluorobenzene	1	0	Avg	0.7207	0.7126	0.7321	0.7179	0.6565	0.7543	0.6677	0.7203	0.7166	0.711	7.52	-1	-1	4.3		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	0.5823	0.5492	0.5393	0.6131	0.5787	0.5647	0.5179	-----	-----	0.564	7.23	0.998	1.00	5.6	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
m&p-Xylenes	1	0	Avg	0.3399	0.3205	0.3259	0.3501	0.3271	0.3205	0.3613	0.3491	0.5005	0.355	7.00	0.997	1.00	16	0.10	40.00	10.00	4.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	0.3498	0.3341	0.3340	0.3633	0.3422	0.3408	0.3170	0.3978	-----	0.347	7.23	0.999	1.00	7.0	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.1196	0.1155	0.1097	0.1255	0.1258	0.1244	0.1371	-----	-----	0.123	7.61	0.998	1.00	7.1		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3-Dichlorobenzene	1	0	Avg	0.4064	0.4240	0.4195	0.4118	0.4340	0.3547	0.4172	-----	-----	0.410	8.16	0.994	0.997	6.3	0.60 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dichlorobenzene	1	0	Avg	0.4081	0.4337	0.4874	0.4029	0.4129	0.3757	0.4096	-----	-----	0.419	8.20	0.998	0.999	8.3	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichlorobenzene	1	0	Avg	0.3881	0.4023	0.4657	0.3967	0.4250	0.3549	0.4160	-----	-----	0.407	8.43	0.995	0.998	8.4	0.40 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Isopropylbenzene	1	0	Avg	0.7883	0.7287	0.7313	0.8490	0.8200	0.7673	0.7217	0.7237	-----	0.766	7.43	0.999	1.00	6.4	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Avg	0.0116	0.0101	0.0142	0.0114	0.0114	0.0118	0.0099	-----	-----	0.0115	7.50	0.992	0.999	12		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Camphene	1	0	Avg	0.2954	0.2634	0.2473	0.3267	0.3144	0.3160	0.3550	-----	-----	0.303	7.60	0.997	1.00	12		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichloropropane	1	0	Avg	0.3129	0.3146	0.3354	0.3047	0.3102	0.2921	0.3072	-----	-----	0.311	7.62	0.999	1.00	4.2		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chlorotoluene	1	0	Avg	0.5663	0.5729	0.5423	0.6018	0.5781	0.5408	0.5743	-----	-----	0.568	7.72	0.999	1.00	3.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Avg Rsd: 9.174

Note:

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_1

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	1M173762.D	CAL @ 20 PPB	05/18/23 23:54	2	1M173761.D	CAL @ 5 PPB	05/18/23 23:33
3	1M173760.D	CAL @ 2 PPB	05/18/23 23:12	4	1M173763.D	CAL @ 50 PPB	05/19/23 00:15
5	1M173765.D	CAL @ 100 PPB	05/19/23 00:56	6	1M173767.D	CAL @ 250 PPB	05/19/23 01:38
7	1M173770.D	CAL @ 500 PPB	05/19/23 02:40	8	1M173759.D	CAL @ 1 PPB	05/18/23 22:51
9	1M173758.D	CAL @ 0.5 PPB	05/18/23 22:30				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	0.8946	0.7928	0.7674	0.9118	0.9000	0.8426	0.9250	-----	-----	0.862	7.72	0.998	0.999	7.2		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Chlorotoluene	1	0	Avg	0.5709	0.5733	0.5377	0.5934	0.5911	0.5405	0.5807	-----	-----	0.570	7.78	0.999	0.999	3.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Propylbenzene	1	0	Avg	1.0180	0.9621	0.9484	1.0604	1.0078	0.9614	1.0061	0.9482	-----	0.989	7.66	0.999	1.00	4.1		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	0.5988	0.6196	0.6355	0.5634	0.5717	0.5548	0.6003	0.7235	-----	0.608	7.63	0.999	1.00	8.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,3,5-Trimethylbenzen	1	0	Avg	0.6693	0.6260	0.6156	0.7195	0.6981	0.6602	0.6844	0.5838	-----	0.657	7.74	1.00	1.00	6.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Avg	0.2473	0.2265	0.2158	0.2657	0.2737	0.2617	0.2878	0.2792	-----	0.257	7.76	0.998	1.00	9.9	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
t-Butylbenzene	1	0	Avg	0.6415	0.5810	0.5827	0.7094	0.7433	0.6102	0.7347	0.5619	-----	0.646	7.95	0.993	0.997	11		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzen	1	0	Avg	0.7338	0.6759	0.6189	0.7740	0.8240	0.6025	0.7423	0.6530	-----	0.703	7.97	0.990	0.994	11		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	0.8656	0.7687	0.7101	0.9389	1.0107	0.6616	0.8271	0.5868	-----	0.796	8.07	0.987	0.990	18		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Avg	0.7269	0.7429	0.8004	0.7801	0.8316	0.5537	0.6849	1.0264	-----	0.768	8.14	0.988	0.991	18		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
n-Butylbenzene	1	0	Avg	0.8541	0.7378	0.6946	0.9071	0.9886	0.6637	0.8243	0.6710	-----	0.793	8.38	0.988	0.991	15		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	0.4046	0.3568	0.3194	0.4398	0.4976	0.3848	0.4727	-----	-----	0.411	8.36	0.991	0.996	15		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4,5-Tetramethylbe	1	0	Qua	0.5717	0.4636	0.4526	0.6548	0.7411	0.4420	-----	-----	-----	0.554	8.82	0.930	0.994	22		20.00	5.00	2.00	50.00	100.0	250.0			
1,2-Dibromo-3-Chloro	1	0	Avg	0.0497	0.0486	0.0624	0.0530	0.0597	0.0397	0.0438	-----	-----	0.0510	8.88	0.991	0.991	16	0.05 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Camphor	1	0	Avg	0.0176	0.0170	0.0246	0.0195	0.0228	0.0150	-----	-----	-----	0.0195	9.32	0.958	0.994	19		200.0	50.00	20.00	500.0	1000.	2500.			
Hexachlorobutadiene	1	0	Avg	0.1255	0.1011	0.1166	0.1325	0.1376	0.1361	0.1522	-----	-----	0.129	9.46	0.997	1.00	13		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4-Trichlorobenzen	1	0	Avg	0.2558	0.2315	0.2418	0.2566	0.2588	0.2366	0.2621	-----	-----	0.249	9.37	0.998	0.999	4.9	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichlorobenzen	1	0	Avg	0.2335	0.2366	0.2418	0.2455	0.2394	0.2286	0.2704	-----	-----	0.242	9.68	0.994	0.999	5.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Naphthalene	1	0	Avg	0.6194	0.6175	0.7555	0.6274	0.6551	0.5640	0.6459	1.0026	-----	0.686	9.53	0.996	0.998	20		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note:	Avg Rsd: 9.174
Corr 1 = Correlation Coefficient for linear Eq.	
Corr 2 = Correlation Coefficient for quad Eq.	
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.	

Quantitation Report (QT Reviewed)

SampleID : CAL @ 20 PPB Operator : WP Qt Meth : 1M_S0518s.M
Data File: 1M173762.D Sam Mult : 1 Vial# : 6 Qt On : 05/19/23 00:56
Acq On : 05/18/23 23:54 Misc : S,5G Qt Upd On: 05/19/23 00:54

Data Path : G:\GcMsData\2023\GCMS_1\Data\05-18-23\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.161	96	766783	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.878	117	721492	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.190	152	425408	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.737	111	208171	28.93	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.43%			
39) 1,2-Dichloroethane-d4	4.959	67	117589	32.30	ug/l	0.00
Spiked Amount 30.000			Recovery = 107.67%			
66) Toluene-d8	6.068	98	836726	29.61	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.70%			
76) Bromofluorobenzene	7.524	174	306606	28.70	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.67%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.685	51	63896	15.3789	ug/l	87
6) Dichlorodifluoromethane	1.676	85	40830	42.0375	ug/l	94
7) Chloromethane	1.840	50	58246	26.2010	ug/l	100
8) Bromomethane	2.222	94	44376	26.4805	ug/l	90
9) Vinyl Chloride	1.936	62	61197	23.9564	ug/l	92
10) Chloroethane	2.306	64	42724	22.4587	ug/l	95
11) Trichlorofluoromethane	2.521	101	89930	22.3599	ug/l	88
12) Ethyl ether	2.756	59	62745	22.1305	ug/l	79
13) Furan	2.791	39	107245	23.6188	ug/l	75
14) 1,1,2-Trichloro-1,2,2-...	2.949	101	43338	21.8563	ug/l	96
15) Methylene Chloride	3.361	84	60941	22.4555	ug/l	77
16) Acrolein	2.865	56	64464	166.5069	ug/l	97
17) Acrylonitrile	3.566	53	23882	20.4874	ug/l	87
18) Iodomethane	3.103	142	12314	5.9852	ug/l	89
19) Acetone	2.991	43	96661	121.1285	ug/l	85
20) Carbon Disulfide	3.168	76	152258	25.1653	ug/l	100
21) t-Butyl Alcohol	3.428	59	39750	119.0245	ug/l	89
22) n-Hexane	3.830	57	59465	20.3731	ug/l	95
23) Di-isopropyl-ether	4.000	45	159504	18.3632	ug/l	87
24) 1,1-Dichloroethene	2.959	61	85048	19.9746	ug/l	88
25) Methyl Acetate	3.264	43	41584	15.8489	ug/l	100
26) Methyl-t-butyl ether	3.598	73	142013	20.5593	ug/l	92
27) 1,1-Dichloroethane	3.962	63	107020	19.8527	ug/l	97
28) trans-1,2-Dichloroethene	3.598	96	51521	18.6355	ug/l	96
29) Ethyl-t-butyl ether	4.293	59	174357	20.7603	ug/l	91
30) cis-1,2-Dichloroethene	4.415	61	111393	20.7319	ug/l	83
31) Bromochloromethane	4.586	49	54481	20.8120	ug/l	80
32) 2,2-Dichloropropane	4.422	77	81872	20.7883	ug/l	97
33) Ethyl acetate	4.451	43	60456	20.9199	ug/l	89
34) 1,4-Dioxane	5.582	88	37977	1239.9236	ug/l	85
35) 1,1-Dichloropropene	4.872	75	71804	21.7057	ug/l	95
36) Chloroform	4.631	83	109211	22.3288	ug/l	100
38) Cyclohexane	4.814	56	72282	17.9869	ug/l	78
40) 1,2-Dichloroethane	5.007	62	102068	25.0587	ug/l	97
41) 2-Butanone	4.422	43	25769	23.8138	ug/l	96
42) 1,1,1-Trichloroethane	4.769	97	89202	20.0418	ug/l	100
43) Carbon Tetrachloride	4.878	117	70198	17.5582	ug/l	100
44) Vinyl Acetate	3.991	43	178541	24.3590	ug/l	100
45) Bromodichloromethane	5.656	83	84855	23.2826	ug/l	93
46) Methylcyclohexane	5.502	83	72294	20.0401	ug/l	87
47) Dibromomethane	5.582	174	36392	19.0423	ug/l	91
48) 1,2-Dichloropropane	5.508	63	64682	21.3333	ug/l	90
49) Trichloroethene	5.377	130	54312	18.2302	ug/l	99
50) Benzene	5.004	78	224759	20.7862	ug/l	100
51) tert-Amyl methyl ether	5.052	73	145780	23.4413	ug/l	97
53) Iso-propylacetate	5.007	43	113441	18.4214	ug/l	77
54) Methyl methacrylate	5.544	41	52259m	19.4851	ug/l	
55) Dibromochloromethane	6.550	129	58755	18.1538	ug/l	98
56) 2-Chloroethylvinylether	5.811	63	1763m	1.0559	ug/l	
57) cis-1,3-Dichloropropene	5.907	75	90882	19.5105	ug/l	93
58) trans-1,3-Dichloropropene	6.209	75	83471	20.0701	ug/l	97
59) Ethyl methacrylate	6.235	41	50042	18.6259	ug/l	84
60) 1,1,2-Trichloroethane	6.322	97	52209	19.1620	ug/l	94
61) 1,2-Dibromoethane	6.630	107	53649	18.5289	ug/l	100
62) 1,3-Dichloropropane	6.418	76	93593	21.0524	ug/l	99
63) 4-Methyl-2-Pentanone	5.984	43	51600	18.2675	ug/l	87
64) 2-Hexanone	6.438	43	39360	20.2421	ug/l	98
65) Tetrachloroethene	6.418	164	40915	15.1242	ug/l	97
67) Toluene	6.106	92	138073	18.2716	ug/l	99

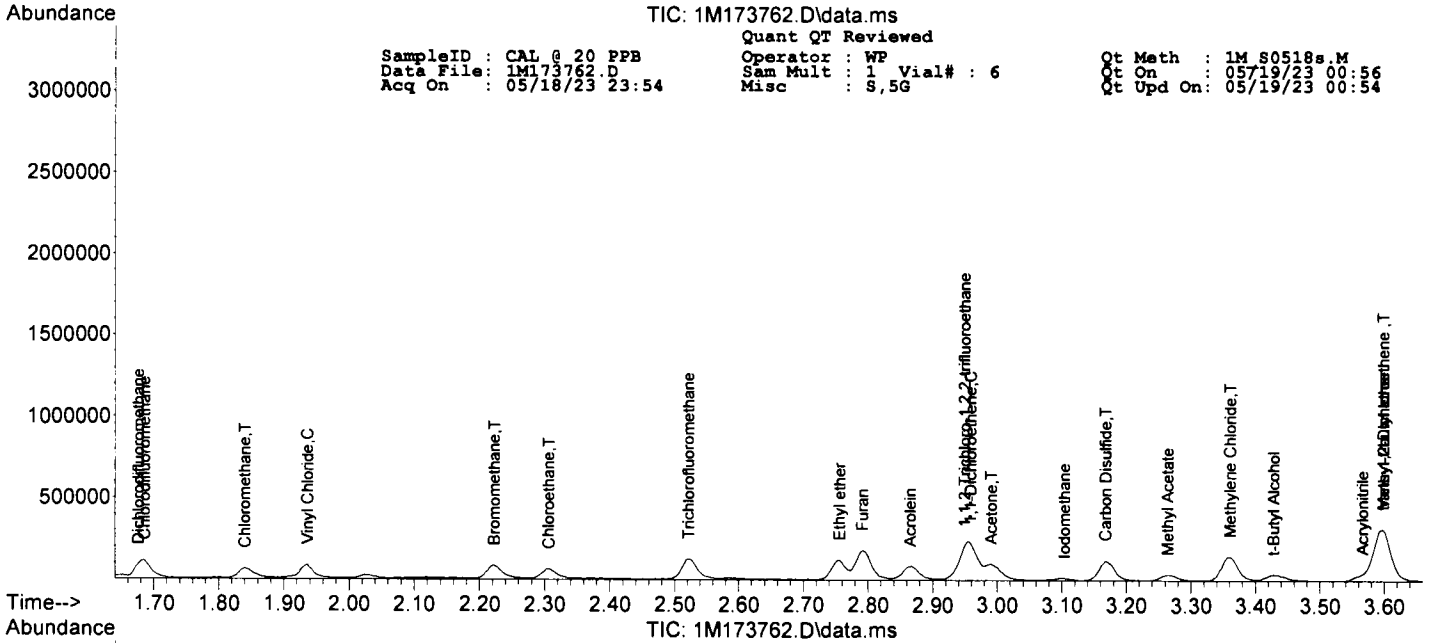
Quantitation Report (QT Reviewed)

SampleID : CAL @ 20 PPB Operator : WP Qt Meth : 1M_S0518s.M
Data File: 1M173762.D Sam Mult : 1 Vial# : 6 Qt On : 05/19/23 00:56
Acq On : 05/18/23 23:54 Misc : S,5G Qt Upd On: 05/19/23 00:54

Data Path : G:\GcMsData\2023\GCMS_1\Data\05-18-23\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.930	133	52130	17.4988	ug/l	99
69)	Chlorobenzene	6.894	112	156104	18.9093	ug/l	100
71)	n-Butyl acrylate	7.158	55	104099	16.6800	ug/l	93
72)	n-Amyl acetate	7.277	43	89569	16.9710	ug/l	89
73)	Bromoform	7.357	173	37621	14.8124	ug/l	93
74)	Ethylbenzene	6.939	106	68336	14.8092	ug/l	100
75)	1,1,2,2-Tetrachloroethane	7.579	83	72680	18.8980	ug/l	99
77)	Styrene	7.232	104	165162	16.9254	ug/l	97
78)	m&p-Xylenes	7.000	106	192825	33.9285	ug/l	98
79)	o-Xylene	7.229	106	99226	16.6013	ug/l	99
80)	trans-1,4-Dichloro-2-b...	7.605	53	33944	15.8358	ug/l	58
81)	1,3-Dichlorobenzene	8.155	146	115270	17.7544	ug/l	99
82)	1,4-Dichlorobenzene	8.203	146	115743	16.1173	ug/l	97
83)	1,2-Dichlorobenzene	8.425	146	110072	17.6029	ug/l	98
84)	Isopropylbenzene	7.425	105	223573	15.6051	ug/l	99
85)	Cyclohexanone	7.502	55	16511	87.8386	ug/l	81
86)	Camphene	7.601	93	83785	16.0650	ug/l	97
87)	1,2,3-Trichloropropane	7.618	75	88767	18.6187	ug/l	66
88)	2-Chlorotoluene	7.727	91	160611	19.0533	ug/l	96
89)	p-Ethyltoluene	7.717	105	253737	19.4505	ug/l	95
90)	4-Chlorotoluene	7.785	91	161920	20.2238	ug/l	99
91)	n-Propylbenzene	7.656	91	288723	18.0267	ug/l	97
92)	Bromobenzene	7.627	77	169846m	19.4164	ug/l	
93)	1,3,5-Trimethylbenzene	7.746	105	189818	17.3247	ug/l	94
94)	Butyl methacrylate	7.756	41	70135	19.1357	ug/l	91
95)	t-Butylbenzene	7.946	119	181941	18.1931	ug/l	97
96)	1,2,4-Trimethylbenzene	7.968	105	208122	19.4928	ug/l	98
97)	sec-Butylbenzene	8.068	105	245512	17.9458	ug/l	100
98)	4-Isopropyltoluene	8.138	119	206158	18.0130	ug/l	94
99)	n-Butylbenzene	8.376	91	242237	21.5193	ug/l	86
100)	p-Diethylbenzene	8.360	119	114769	18.1478	ug/l	79
101)	1,2,4,5-Tetramethylben...	8.820	119	162153	16.9708	ug/l	99
102)	1,2-Dibromo-3-Chloropr...	8.878	157	14114	14.6228	ug/l	86
103)	Camphor	9.315	95	50112	138.9534	ug/l	97
104)	Hexachlorobutadiene	9.457	225	35604	13.3103	ug/l	96
105)	1,2,4-Trichlorobenzene	9.370	180	72558	15.4792	ug/l	97
106)	1,2,3-Trichlorobenzene	9.675	180	66232	15.8054	ug/l	98
107)	Naphthalene	9.531	128	175679	16.0468	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed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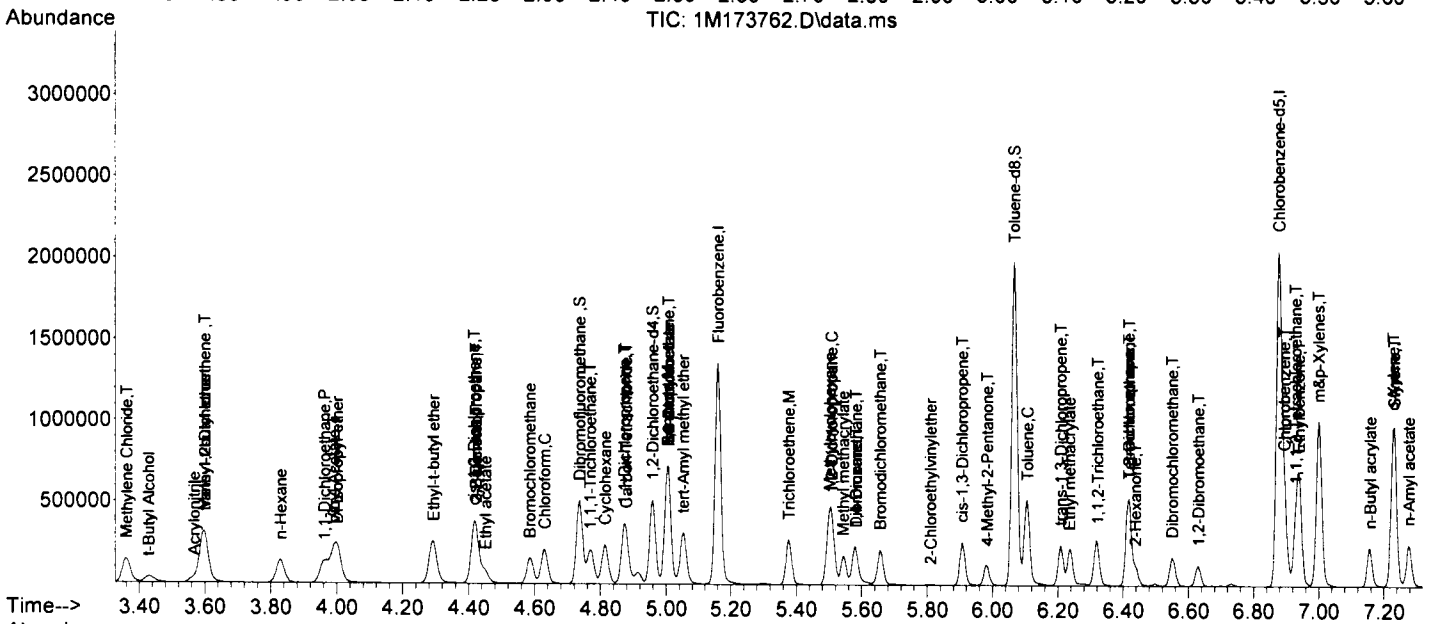
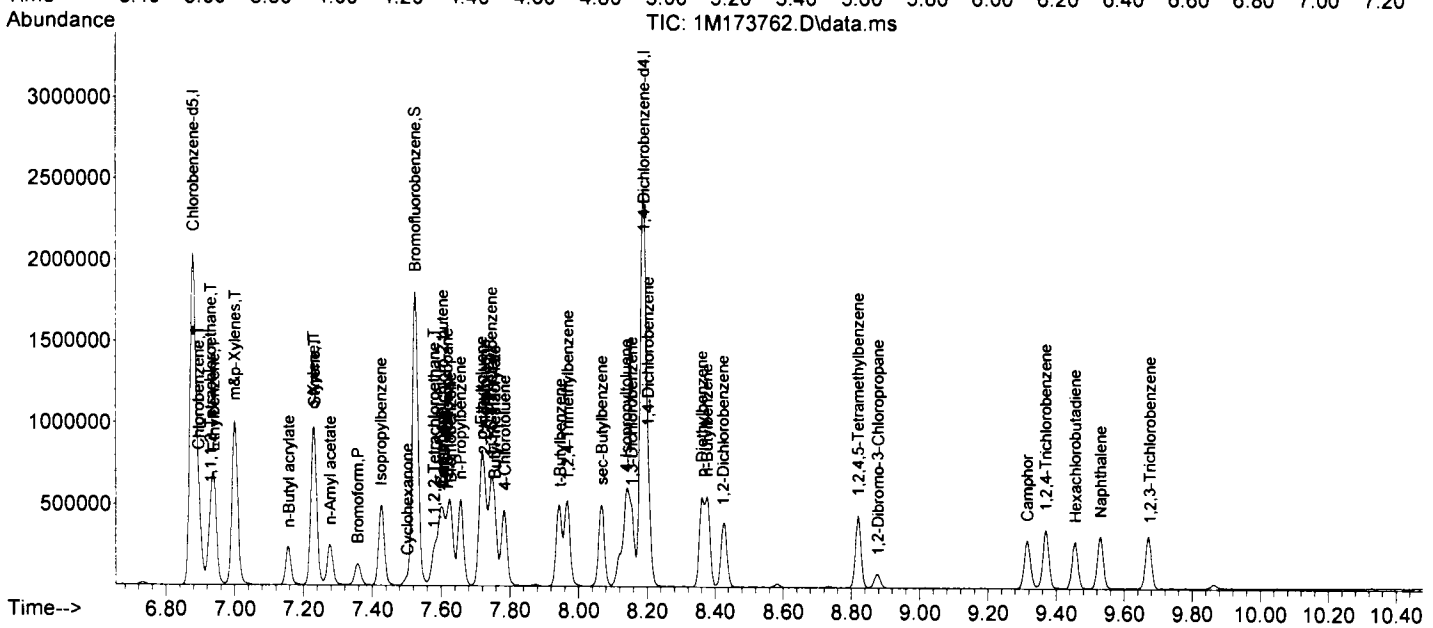
Quant QT Reviewed
SampleID : CAL @ 20 PPB
Data File: 1M173762.D
Acq On : 05/18/23 23:54
Operator : WP
Sam Mult : 1 Vial# : 6
Misc : S,5G
Qt Meth : 1M_S0518s.M
Qt On : 05/19/23 00:56
Qt Upd On: 05/19/23 00:54
Chloromethane,T
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
Time-->


Abundance
TIC: 1M173762.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Time-->


Abundance
TIC: 1M173762.D\data.ms
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Isopropylbenzene
Cyclohexanone
n-Propylbenzene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 5 PPB Operator : WP Qt Meth : 1M_S0518s.M
Data File: 1M173761.D Sam Mult : 1 Vial# : 5 Qt On : 05/19/23 01:01
Acq On : 05/18/23 23:33 Misc : S,5G Qt Upd On: 05/19/23 00:54

Data Path : G:\GcMsData\2023\GCMS_1\Data\05-18-23\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.161	96	781258	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.878	117	727197	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.190	152	433916	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.737	111	213315	29.09	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.97%			
39) 1,2-Dichloroethane-d4	4.959	67	121328	32.71	ug/l	0.00
Spiked Amount 30.000			Recovery = 109.03%			
66) Toluene-d8	6.068	98	836413	29.36	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.87%			
76) Bromofluorobenzene	7.528	174	309207	28.38	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.60%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.685	51	15889	3.7534	ug/l	92
6) Dichlorodifluoromethane	1.679	85	10851	10.9649	ug/l	100
7) Chloromethane	1.843	50	15786	6.9695	ug/l	86
8) Bromomethane	2.219	94	10735	6.2872	ug/l	88
9) Vinyl Chloride	1.933	62	14759	5.6706	ug/l	99
10) Chloroethane	2.309	64	10226	5.2759	ug/l	95
11) Trichlorofluoromethane	2.525	101	22682	5.5351	ug/l	96
12) Ethyl ether	2.750	59	16083	5.5675	ug/l	74
13) Furan	2.792	39	29053m	6.2799	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.949	101	11009	5.4492	ug/l	94
15) Methylene Chloride	3.361	84	16118	5.8291	ug/l	70
16) Acrolein	2.865	56	15929	40.3814	ug/l	90
17) Acrylonitrile	3.563	53	6353m	5.3490	ug/l	
18) Iodomethane	3.103	142	2730m	1.3023	ug/l	
19) Acetone	2.994	43	29013	35.6834	ug/l	87
20) Carbon Disulfide	3.171	76	41864	6.7911	ug/l	100
21) t-Butyl Alcohol	3.435	59	10304m	30.2819	ug/l	
22) n-Hexane	3.827	57	14654	4.9275	ug/l	97
23) Di-isopropyl-ether	3.997	45	36076	4.0764	ug/l	76
24) 1,1-Dichloroethene	2.959	61	21576	4.9735	ug/l	81
25) Methyl Acetate	3.271	43	11340	4.2419	ug/l	100
26) Methyl-t-butyl ether	3.595	73	35410	5.0313	ug/l	89
27) 1,1-Dichloroethane	3.962	63	27062	4.9271	ug/l	86
28) trans-1,2-Dichloroethene	3.602	96	14393	5.1096	ug/l	95
29) Ethyl-t-butyl ether	4.293	59	41445	4.8433	ug/l	91
30) cis-1,2-Dichloroethene	4.412	61	27610	5.0434	ug/l	73
31) Bromochloromethane	4.589	49	14385	5.3933	ug/l	86
32) 2,2-Dichloropropane	4.428	77	20983	5.2291	ug/l	89
33) Ethyl acetate	4.454	43	18115m	6.1523	ug/l	
34) 1,4-Dioxane	5.582	88	9826	314.8684	ug/l	87
35) 1,1-Dichloropropene	4.872	75	18407	5.4612	ug/l	92
36) Chloroform	4.631	83	31182	6.2572	ug/l	99
38) Cyclohexane	4.817	56	18102	4.4211	ug/l	78
40) 1,2-Dichloroethane	5.007	62	27191	6.5520	ug/l	96
41) 2-Butanone	4.415	43	5468	4.9595	ug/l	90
42) 1,1,1-Trichloroethane	4.772	97	23720	5.2306	ug/l	92
43) Carbon Tetrachloride	4.878	117	16834	4.1326	ug/l	98
44) Vinyl Acetate	3.988	43	44251	5.9255	ug/l	100
45) Bromodichloromethane	5.656	83	21646	5.8292	ug/l	98
46) Methylcyclohexane	5.499	83	18428	5.0137	ug/l	85
47) Dibromomethane	5.582	174	9548	4.9035	ug/l	91
48) 1,2-Dichloropropane	5.512	63	16576	5.3658	ug/l	93
49) Trichloroethene	5.380	130	14733	4.8536	ug/l	77
50) Benzene	5.004	78	55860	5.0703	ug/l	100
51) tert-Amyl methyl ether	5.052	73	36303	5.7293	ug/l	94
53) Iso-propylacetate	5.007	43	27524	4.4345	ug/l	79
54) Methyl methacrylate	5.547	41	12721	4.7059	ug/l	37
55) Dibromochloromethane	6.557	129	15795	4.8420	ug/l	83
56) 2-Chloroethylvinylether	5.807	63	267m	0.1587	ug/l	
57) cis-1,3-Dichloropropene	5.907	75	20963	4.4650	ug/l	88
58) trans-1,3-Dichloropropene	6.209	75	21196	5.0565	ug/l	96
59) Ethyl methacrylate	6.238	41	12737	4.7036	ug/l	77
60) 1,1,2-Trichloroethane	6.319	97	14387	5.2390	ug/l	95
61) 1,2-Dibromoethane	6.627	107	13916	4.7685	ug/l	93
62) 1,3-Dichloropropane	6.418	76	23589	5.2644	ug/l	85
63) 4-Methyl-2-Pentanone	5.981	43	12274	4.3112	ug/l	87
64) 2-Hexanone	6.438	43	9339	4.7652	ug/l	92
65) Tetrachloroethene	6.415	164	10849	3.9789	ug/l	86
67) Toluene	6.103	92	36578	4.8025	ug/l	98

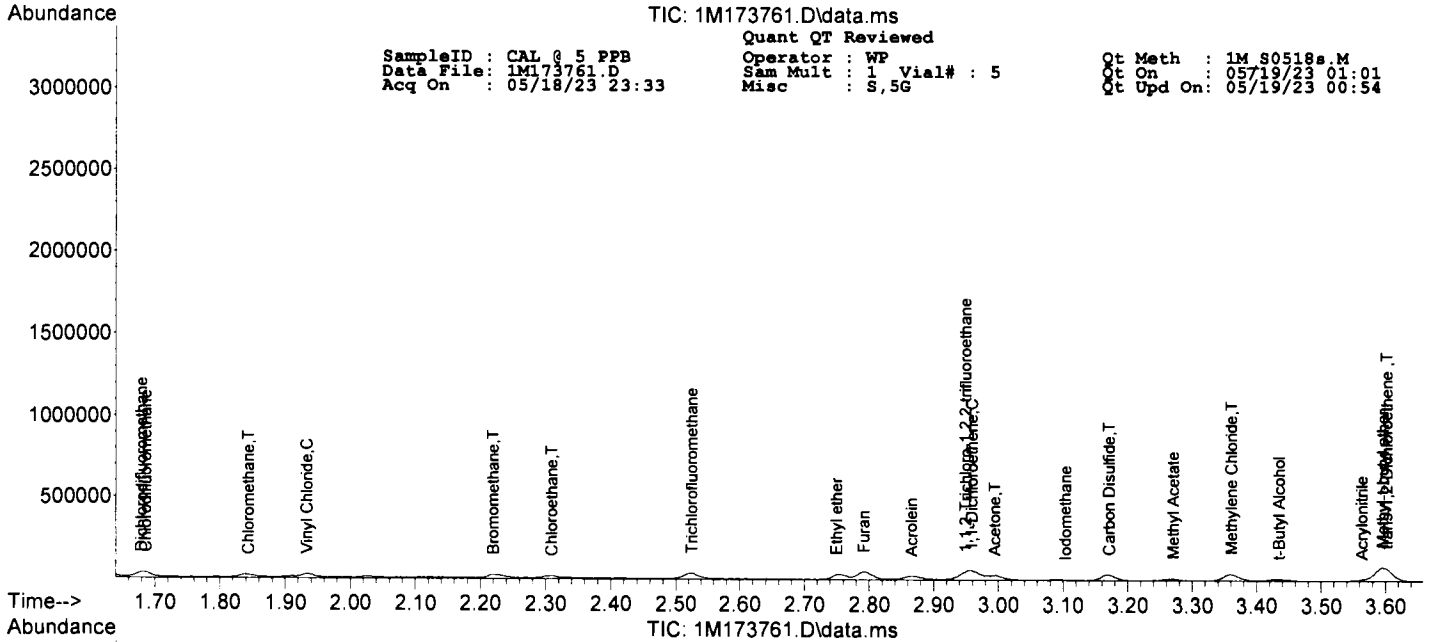
Quantitation Report (QT Reviewed)

SampleID : CAL @ 5 PPB Operator : WP Qt Meth : 1M_S0518s.M
Data File: 1M173761.D Sam Mult : 1 Vial# : 5 Qt On : 05/19/23 01:01
Acq On : 05/18/23 23:33 Misc : S,5G Qt Upd On: 05/19/23 00:54

Data Path : G:\GcMsData\2023\GCMS_1\Data\05-18-23\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.933	133	13877	4.6216	ug/l	84
69)	Chlorobenzene	6.897	112	41842	5.0287	ug/l	96
71)	n-Butyl acrylate	7.158	55	24598	3.8641	ug/l	94
72)	n-Amyl acetate	7.277	43	21254	3.9481	ug/l	88
73)	Bromoform	7.354	173	9966	3.8469	ug/l	89
74)	Ethylbenzene	6.942	106	17384	3.6934	ug/l	87
75)	1,1,2,2-Tetrachloroethane	7.586	83	19921	5.0782	ug/l	96
77)	Styrene	7.232	104	39724	3.9910	ug/l	95
78)	m&p-Xylenes	7.004	106	46369	7.9989	ug/l	96
79)	o-Xylene	7.232	106	24163	3.9634	ug/l	97
80)	trans-1,4-Dichloro-2-b...	7.608	53	8353	3.8205	ug/l	65
81)	1,3-Dichlorobenzene	8.158	146	30667	4.6308	ug/l	99
82)	1,4-Dichlorobenzene	8.203	146	31368	4.2824	ug/l	85
83)	1,2-Dichlorobenzene	8.428	146	29094	4.5615	ug/l	96
84)	Isopropylbenzene	7.425	105	52703	3.6065	ug/l	95
85)	Cyclohexanone	7.502	55	3660	19.0894	ug/l	91
86)	Camphene	7.605	93	19054	3.5818	ug/l	98
87)	1,2,3-Trichloropropane	7.621	75	22754	4.6790	ug/l	63
88)	2-Chlorotoluene	7.724	91	41432	4.8187	ug/l	97
89)	p-Ethyltoluene	7.721	105	57337	4.3090	ug/l	97
90)	4-Chlorotoluene	7.785	91	41464	5.0773	ug/l	98
91)	n-Propylbenzene	7.656	91	69585	4.2594	ug/l	99
92)	Bromobenzene	7.627	77	44809	5.0220	ug/l	85
93)	1,3,5-Trimethylbenzene	7.746	105	45278	4.0515	ug/l	96
94)	Butyl methacrylate	7.756	41	16380	4.3815	ug/l	89
95)	t-Butylbenzene	7.942	119	42022	4.1196	ug/l	95
96)	1,2,4-Trimethylbenzene	7.968	105	48883	4.4886	ug/l	98
97)	sec-Butylbenzene	8.071	105	55594	3.9840	ug/l	97
98)	4-Isopropyltoluene	8.142	119	53731	4.6027	ug/l	96
99)	n-Butylbenzene	8.377	91	53357	4.6471	ug/l	84
100)	p-Diethylbenzene	8.360	119	25808	4.0009	ug/l	76
101)	1,2,4,5-Tetramethylben...	8.820	119	33531	3.4405	ug/l	98
102)	1,2-Dibromo-3-Chloropr...	8.875	157	3517	3.5723	ug/l	97
103)	Camphor	9.319	95	12340	33.5461	ug/l	99
104)	Hexachlorobutadiene	9.457	225	7315	2.6810	ug/l	98
105)	1,2,4-Trichlorobenzene	9.373	180	16748	3.5029	ug/l	97
106)	1,2,3-Trichlorobenzene	9.669	180	17113	4.0037	ug/l	97
107)	Naphthalene	9.531	128	44662	3.9995	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed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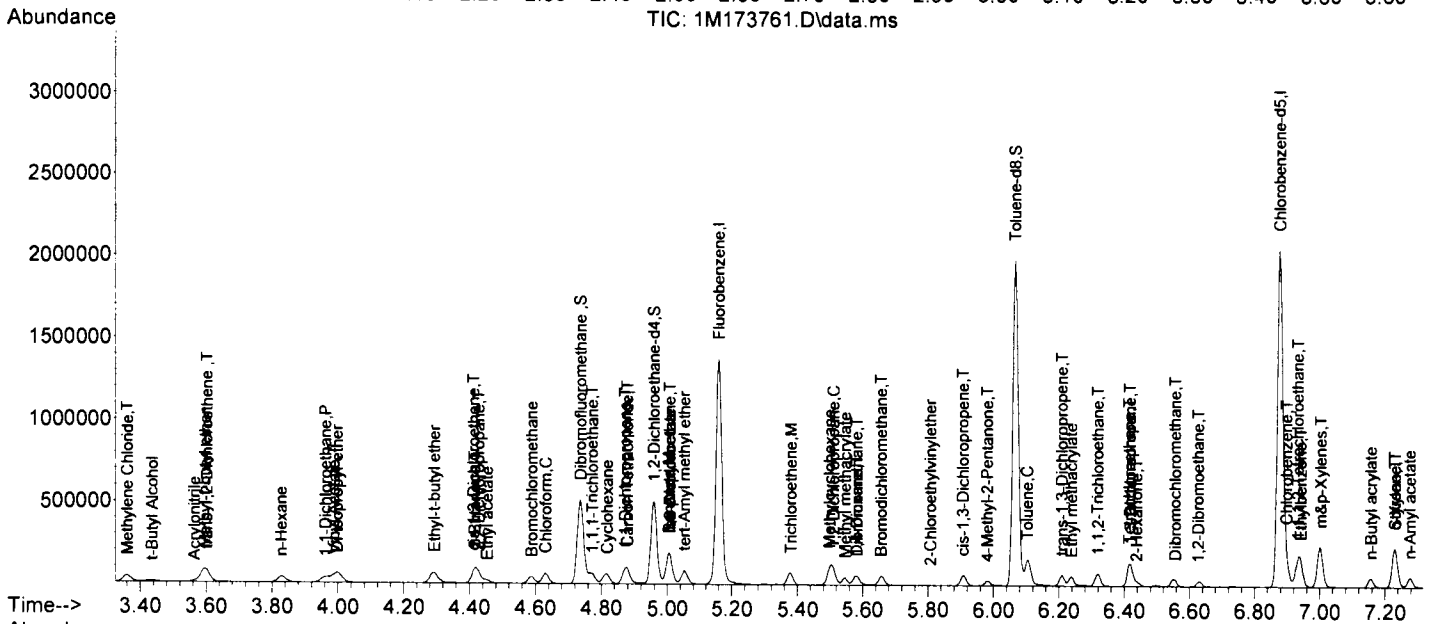
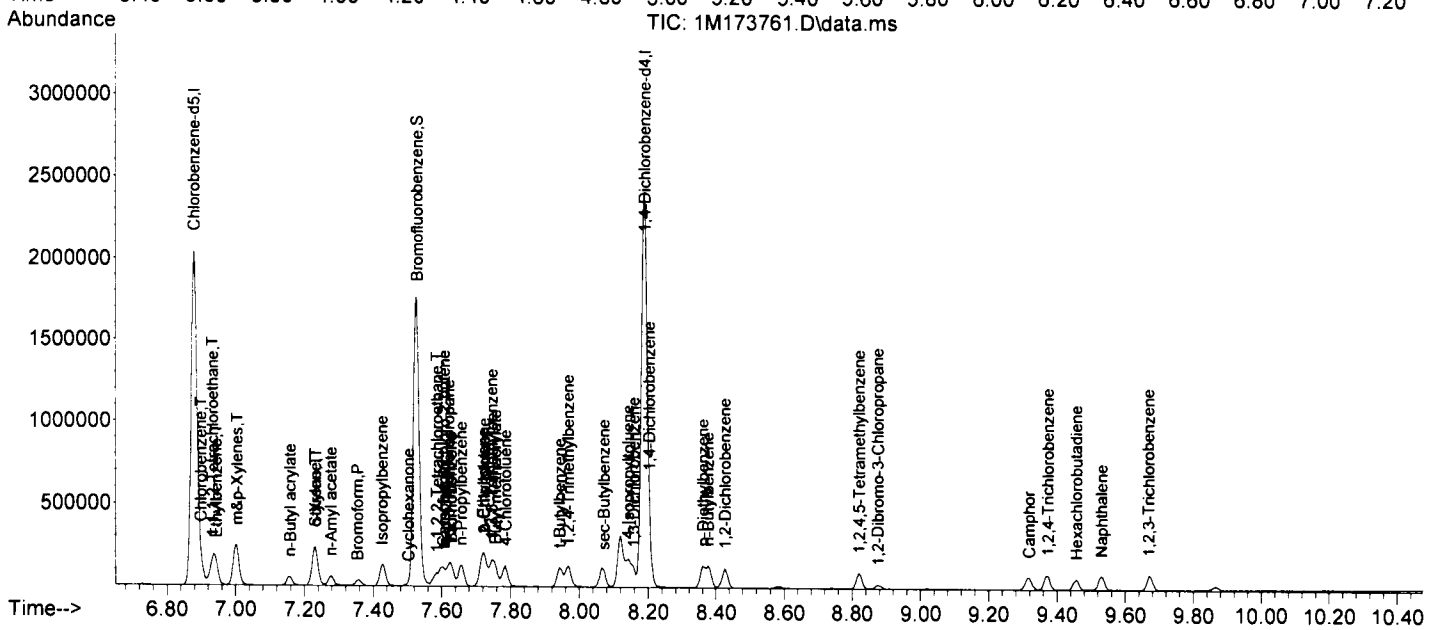
Quant QT Reviewed
SampleID : CAL @ 5 PPB
Data File: 1M173761.D
Acq On : 05/18/23 23:33
Operator : WP
Sam Mult : 1 Vial# : 5
Misc : S,5G
Qt Meth : 1M_S0518s.M
Qt On : 05/19/23 01:01
Qt Upd On: 05/19/23 00:54
Chloromethane,T
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
Time-->


Abundance
TIC: 1M173761.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Dibromofluoromethane,S
1,1,1-Trichloroethane,T
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Time-->


Abundance
TIC: 1M173761.D\data.ms
Chlorobenzene-d5,I
Chlorobenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
n-Propylbenzene
4-Chlorotoluene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,4-Dichlorobenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 2 PPB Operator : WP Qt Meth : 1M_S0518s.M
Data File: 1M173760.D Sam Mult : 1 Via1# : 4 Qt On : 05/19/23 01:03
Acq On : 05/18/23 23:12 Misc : S,5G Qt Upd On: 05/19/23 00:54

Data Path : G:\GcMsData\2023\GCMS_1\Data\05-18-23\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.161	96	772915	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.881	117	733860	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.190	152	421259	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.737	111	212131	29.24	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.47%			
39) 1,2-Dichloroethane-d4	4.958	67	119688	32.61	ug/l	0.00
Spiked Amount 30.000			Recovery = 108.70%			
66) Toluene-d8	6.068	98	832446	28.96	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.53%			
76) Bromofluorobenzene	7.527	174	308409	29.15	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.17%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.692	51	6054	1.4456	ug/l	93
6) Dichlorodifluoromethane	1.679	85	4169	4.2582	ug/l	94
7) Chloromethane	1.840	50	6048	2.6990	ug/l	87
8) Bromomethane	2.225	94	4394	2.6012	ug/l	85
9) Vinyl Chloride	1.933	62	6089	2.3647	ug/l	87
10) Chloroethane	2.309	64	4441	2.3160	ug/l	98
11) Trichlorofluoromethane	2.528	101	10269	2.5330	ug/l	87
12) Ethyl ether	2.756	59	7238	2.5326	ug/l	72
13) Furan	2.798	39	10564	2.3081	ug/l	74
14) 1,1,2-Trichloro-1,2,2-...	2.952	101	4898	2.4506	ug/l	81
15) Methylene Chloride	3.357	84	6255	2.2866	ug/l	95
16) Acrolein	2.865	56	6681	17.1197	ug/l	85
17) Acrylonitrile	3.566	53	2205m	1.8766	ug/l	
18) Iodomethane	3.094	142	1051	0.5068	ug/l	92
19) Acetone	2.991	43	15566	19.3514	ug/l	99
20) Carbon Disulfide	3.171	76	16872	2.7665	ug/l	100
21) t-Butyl Alcohol	3.431	59	4647	13.8042	ug/l	49
22) n-Hexane	3.833	57	5956	2.0244	ug/l	99
23) Di-isopropyl-ether	4.000	45	14599	1.6674	ug/l	88
24) 1,1-Dichloroethene	2.958	61	8339	1.9430	ug/l	73
25) Methyl Acetate	3.270	43	4426	1.6735	ug/l	100
26) Methyl-t-butyl ether	3.592	73	13496	1.9383	ug/l	88
27) 1,1-Dichloroethane	3.955	63	11145	2.0510	ug/l	92
28) trans-1,2-Dichloroethene	3.598	96	5444	1.9535	ug/l	85
29) Ethyl-t-butyl ether	4.290	59	15900	1.8782	ug/l	90
30) cis-1,2-Dichloroethene	4.418	61	11065	2.0430	ug/l	69
31) Bromochloromethane	4.589	49	5531	2.0961	ug/l	97
32) 2,2-Dichloropropane	4.428	77	7749	1.9520	ug/l	89
33) Ethyl acetate	4.450	43	6333	2.1741	ug/l	93
34) 1,4-Dioxane	5.585	88	3498	113.3013	ug/l	85
35) 1,1-Dichloropropene	4.875	75	7295	2.1877	ug/l	88
36) Chloroform	4.630	83	13999	2.8395	ug/l	99
38) Cyclohexane	4.814	56	7500	1.8515	ug/l	81
40) 1,2-Dichloroethane	5.010	62	11708	2.8516	ug/l	86
41) 2-Butanone	4.421	43	2585	2.3699	ug/l	92
42) 1,1,1-Trichloroethane	4.775	97	8917	1.9876	ug/l	79
43) Carbon Tetrachloride	4.881	117	6966	1.7285	ug/l	99
44) Vinyl Acetate	3.987	43	17065	2.3098	ug/l	100
45) Bromodichloromethane	5.656	83	8736	2.3780	ug/l	99
46) Methylcyclohexane	5.502	83	7244	1.9921	ug/l	85
47) Dibromomethane	5.582	174	4209	2.1849	ug/l	91
48) 1,2-Dichloropropane	5.511	63	6187	2.0244	ug/l	95
49) Trichloroethene	5.376	130	6151	2.0482	ug/l	94
50) Benzene	5.003	78	22837	2.0953	ug/l	100
51) tert-Amyl methyl ether	5.055	73	13633	2.1748	ug/l	90
53) Iso-propylacetate	5.010	43	11847	1.8914	ug/l	76
54) Methyl methacrylate	5.550	41	5101	1.8699	ug/l	47
55) Dibromochloromethane	6.553	129	5810	1.7649	ug/l	72
56) 2-Chloroethylvinylether	5.856	63	36m	0.0212	ug/l	
57) cis-1,3-Dichloropropene	5.910	75	9277	1.9580	ug/l	97
58) trans-1,3-Dichloropropene	6.209	75	8455	1.9987	ug/l	97
59) Ethyl methacrylate	6.238	41	5044	1.8458	ug/l	88
60) 1,1,2-Trichloroethane	6.322	97	6044	2.1809	ug/l	81
61) 1,2-Dibromoethane	6.630	107	5776	1.9613	ug/l	86
62) 1,3-Dichloropropane	6.415	76	9740	2.1539	ug/l	96
63) 4-Methyl-2-Pentanone	5.981	43	5411	1.8833	ug/l	88
64) 2-Hexanone	6.441	43	4323	2.1858	ug/l	81
65) Tetrachloroethene	6.418	164	4194	1.5242	ug/l	78
67) Toluene	6.109	92	15355	1.9977	ug/l	80

Quantitation Report (QT Reviewed)

SampleID : CAL @ 2 PPB Operator : WP Qt Meth : 1M_S0518s.M
Data File: 1M173760.D Sam Mult : 1 Vial# : 4 Qt On : 05/19/23 01:03
Acq On : 05/18/23 23:12 Misc : S,5G Qt Upd On: 05/19/23 00:54

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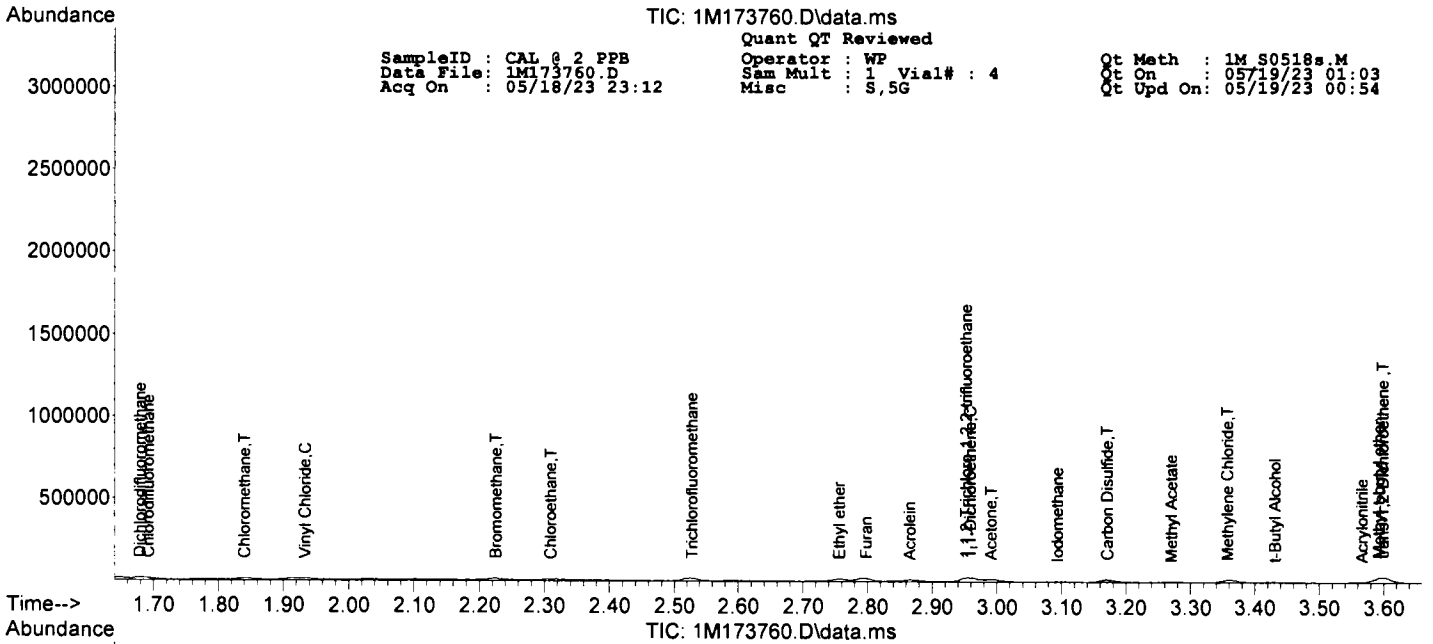
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.933	133	5713	1.8854	ug/l	89
69)	Chlorobenzene	6.897	112	17699	2.1078	ug/l	93
71)	n-Butyl acrylate	7.154	55	9529	1.5419	ug/l	93
72)	n-Amyl acetate	7.277	43	8351	1.5979	ug/l	83
73)	Bromoform	7.363	173	4295	1.7077	ug/l	97
74)	Ethylbenzene	6.939	106	7097	1.5531	ug/l	78
75)	1,1,2,2-Tetrachloroethane	7.582	83	8206	2.1547	ug/l	83
77)	Styrene	7.235	104	15148	1.5676	ug/l	92
78)	m&p-Xylenes	7.003	106	18305	3.2526	ug/l	97
79)	o-Xylene	7.228	106	9381	1.5850	ug/l	69
80)	trans-1,4-Dichloro-2-b...	7.608	53	3083	1.4525	ug/l	39
81)	1,3-Dichlorobenzene	8.158	146	11783	1.8327	ug/l	95
82)	1,4-Dichlorobenzene	8.199	146	13689	1.9250	ug/l	63
83)	1,2-Dichlorobenzene	8.428	146	13081	2.1125	ug/l	88
84)	Isopropylbenzene	7.428	105	20540	1.4478	ug/l	94
85)	Cyclohexanone	7.515	55	2000m	10.7448	ug/l	
86)	Camphene	7.605	93	6946	1.3449	ug/l	94
87)	1,2,3-Trichloropropane	7.617	75	9422	1.9957	ug/l	67
88)	2-Chlorotoluene	7.727	91	15232	1.8248	ug/l	91
89)	p-Ethyltoluene	7.717	105	21553	1.6684	ug/l	97
90)	4-Chlorotoluene	7.785	91	15102	1.9048	ug/l	98
91)	n-Propylbenzene	7.659	91	26635	1.6794	ug/l	100
92)	Bromobenzene	7.627	77	17848m	2.0604	ug/l	
93)	1,3,5-Trimethylbenzene	7.746	105	17289	1.5935	ug/l	94
94)	Butyl methacrylate	7.759	41	6062	1.6703	ug/l	82
95)	t-Butylbenzene	7.942	119	16367	1.6527	ug/l	99
96)	1,2,4-Trimethylbenzene	7.968	105	17383	1.6441	ug/l	95
97)	sec-Butylbenzene	8.068	105	19944	1.4722	ug/l	98
98)	4-Isopropyltoluene	8.142	119	22479m	1.9834	ug/l	
99)	n-Butylbenzene	8.376	91	19508	1.7501	ug/l	88
100)	p-Diethylbenzene	8.360	119	8970	1.4323	ug/l	79
101)	1,2,4,5-Tetramethylben...	8.823	119	12712	1.3435	ug/l	98
102)	1,2-Dibromo-3-Chloropr...	8.878	157	1753	1.8341	ug/l	76
103)	Camphor	9.315	95	6924	19.3884	ug/l	97
104)	Hexachlorobutadiene	9.460	225	3276	1.2368	ug/l	90
105)	1,2,4-Trichlorobenzene	9.370	180	6791	1.4630	ug/l	95
106)	1,2,3-Trichlorobenzene	9.672	180	6792	1.6368	ug/l	94
107)	Naphthalene	9.534	128	21218	1.9572	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed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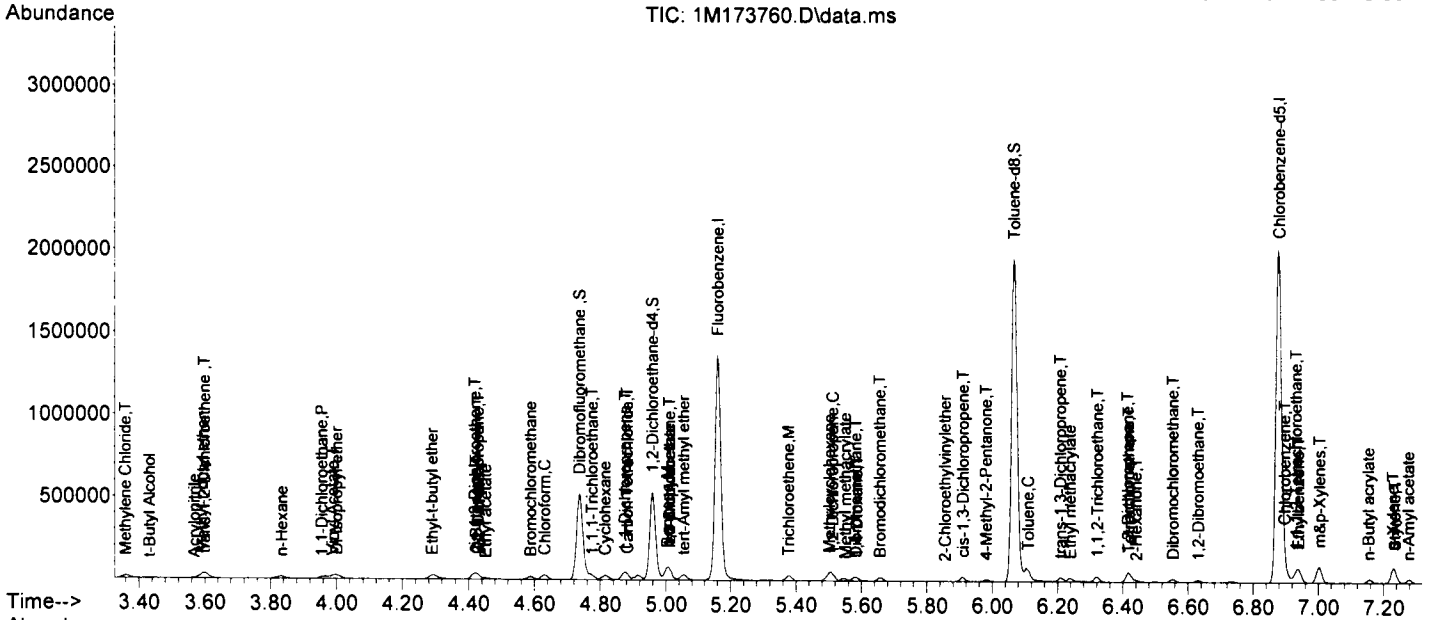
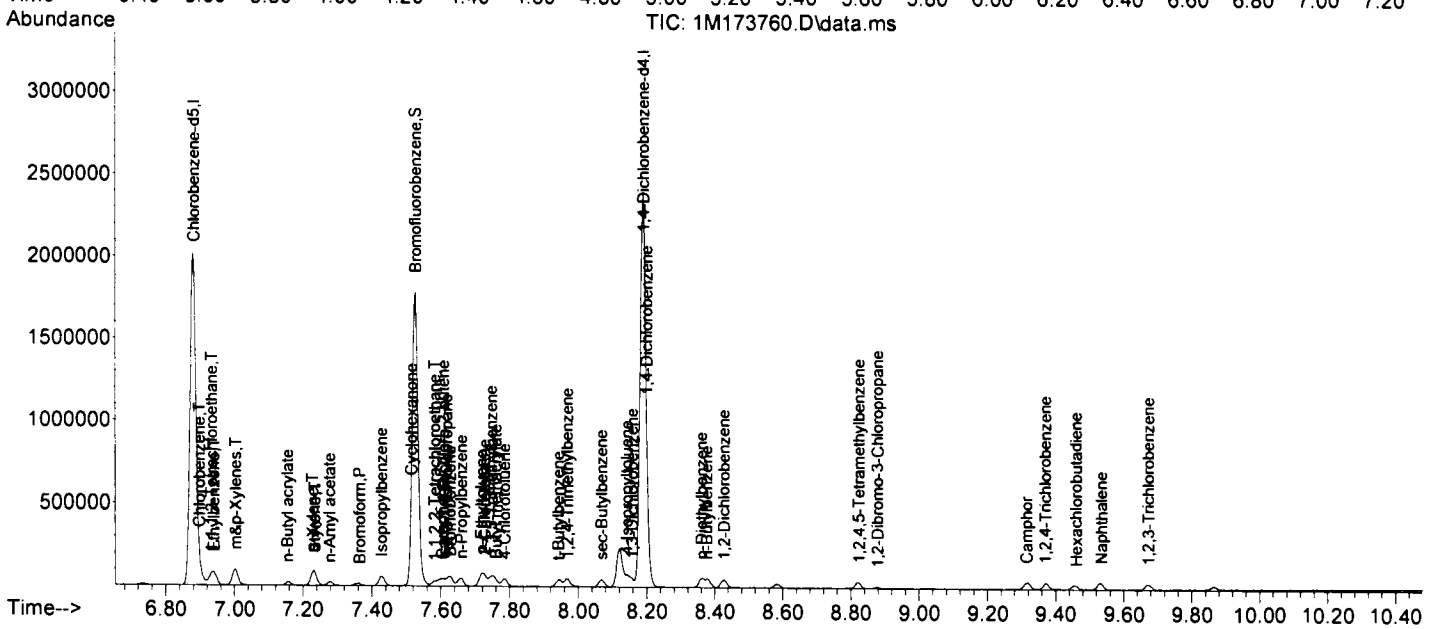
Data File: 1M173760.D
Acq On : 05/18/23 23:12
Operator : WP
Sam Mult : 1 Vial# : 4
Misc : S,5G
Qt Meth : 1M_S0518s.M
Qt On : 05/19/23 01:03
Qt Upd On: 05/19/23 00:54
Chloromethane,T
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
Time-->


Abundance
TIC: 1M173760.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Dibromofluoromethane,S
Cyclohexane
1,1,1-Trichloroethane,T
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
Ethyl methacrylate
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Time-->


Abundance
TIC: 1M173760.D\data.ms
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Chlorobenzene,T
Ethylbenzene
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
n-Propylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 50 PPB Operator : WP Qt Meth : 1M_S0518s.M
Data File: 1M173763.D Sam Mult : 1 Vial# : 7 Qt On : 05/19/23 00:56
Acq On : 05/19/23 00:15 Misc : S,5G Qt Upd On: 05/19/23 00:54

Data Path : G:\GcMsData\2023\GCMS_1\Data\05-18-23\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.161	96	801881	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.878	117	764970	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.190	152	459167	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.737	111	218830	29.08	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.93%			
39) 1,2-Dichloroethane-d4	4.958	67	121663	31.95	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.50%			
66) Toluene-d8	6.068	98	874470	29.18	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.27%			
76) Bromofluorobenzene	7.527	174	329675	28.59	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.30%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.688	51	190712	43.8927	ug/l	88
6) Dichlorodifluoromethane	1.676	85	123442	121.5299	ug/l	95
7) Chloromethane	1.843	50	166705	71.7073	ug/l	96
8) Bromomethane	2.222	94	137549	78.4870	ug/l	96
9) Vinyl Chloride	1.936	62	178438	66.7947	ug/l	96
10) Chloroethane	2.306	64	117772	59.1993	ug/l	96
11) Trichlorofluoromethane	2.524	101	252368	60.0015	ug/l	99
12) Ethyl ether	2.756	59	172753	58.2641	ug/l	77
13) Furan	2.795	39	299544	63.0818	ug/l	76
14) 1,1,2-Trichloro-1,2,2-...	2.949	101	117714	56.7674	ug/l	97
15) Methylene Chloride	3.360	84	163140	57.4825	ug/l	79
16) Acrolein	2.865	56	160212	395.7059	ug/l	91
17) Acrylonitrile	3.563	53	60209	49.3901	ug/l	85
18) Iodomethane	3.103	142	44981	20.9058	ug/l	95
19) Acetone	2.991	43	259289	310.7004	ug/l	91
20) Carbon Disulfide	3.174	76	430066	67.9703	ug/l	100
21) t-Butyl Alcohol	3.428	59	97303	278.6045	ug/l	75
22) n-Hexane	3.830	57	172993	56.6744	ug/l	95
23) Di-isopropyl-ether	4.000	45	462784	50.9470	ug/l	88
24) 1,1-Dichloroethene	2.959	61	257383	57.8038	ug/l	82
25) Methyl Acetate	3.264	43	99569	36.2877	ug/l	100
26) Methyl-t-butyl ether	3.592	73	410084	56.7696	ug/l	92
27) 1,1-Dichloroethane	3.962	63	307207	54.4939	ug/l	99
28) trans-1,2-Dichloroethene	3.602	96	153242	53.0026	ug/l	99
29) Ethyl-t-butyl ether	4.293	59	511396	58.2257	ug/l	90
30) cis-1,2-Dichloroethene	4.415	61	315405	56.1321	ug/l	78
31) Bromochloromethane	4.589	49	151422	55.3122	ug/l	84
32) 2,2-Dichloropropane	4.425	77	237685	57.7096	ug/l	98
33) Ethyl acetate	4.450	43	163484	54.0952	ug/l	89
34) 1,4-Dioxane	5.582	88	98520	3075.8221	ug/l	92
35) 1,1-Dichloropropene	4.872	75	206396	59.6607	ug/l	95
36) Chloroform	4.630	83	304143	59.4621	ug/l	96
38) Cyclohexane	4.817	56	217731	51.8094	ug/l	75
40) 1,2-Dichloroethane	5.007	62	278819	65.4566	ug/l	95
41) 2-Butanone	4.418	43	65293	57.6978	ug/l	94
42) 1,1,1-Trichloroethane	4.772	97	252735	54.2987	ug/l	97
43) Carbon Tetrachloride	4.881	117	204693	48.9577	ug/l	97
44) Vinyl Acetate	3.991	43	511905	66.7842	ug/l	100
45) Bromodichloromethane	5.659	83	238095	62.4693	ug/l	100
46) Methylcyclohexane	5.502	83	207481	54.9970	ug/l	87
47) Dibromomethane	5.579	174	101230	50.6508	ug/l	95
48) 1,2-Dichloropropane	5.511	63	179577	56.6353	ug/l	87
49) Trichloroethene	5.376	130	151192	48.5274	ug/l	98
50) Benzene	5.003	78	617623	54.6190	ug/l	100
51) tert-Amyl methyl ether	5.055	73	429012	65.9653	ug/l	98
53) Iso-propylacetate	5.010	43	315186	48.2732	ug/l	78
54) Methyl methacrylate	5.505	41	199351	70.1047	ug/l	71
55) Dibromochloromethane	6.553	129	161988	47.2054	ug/l	98
56) 2-Chloroethylvinylether	5.811	63	6490m	3.6662	ug/l	
57) cis-1,3-Dichloropropene	5.910	75	260126	52.6698	ug/l	96
58) trans-1,3-Dichloropropene	6.209	75	241675	54.8067	ug/l	97
59) Ethyl methacrylate	6.238	41	154348	54.1838	ug/l	80
60) 1,1,2-Trichloroethane	6.319	97	144943	50.1742	ug/l	95
61) 1,2-Dibromoethane	6.630	107	146848	47.8348	ug/l	100
62) 1,3-Dichloropropane	6.418	76	257574	54.6446	ug/l	97
63) 4-Methyl-2-Pentanone	5.981	43	142862	47.7016	ug/l	88
64) 2-Hexanone	6.441	43	107187	51.9913	ug/l	98
65) Tetrachloroethene	6.418	164	112693	39.2892	ug/l	98
67) Toluene	6.106	92	382566	47.7486	ug/l	98

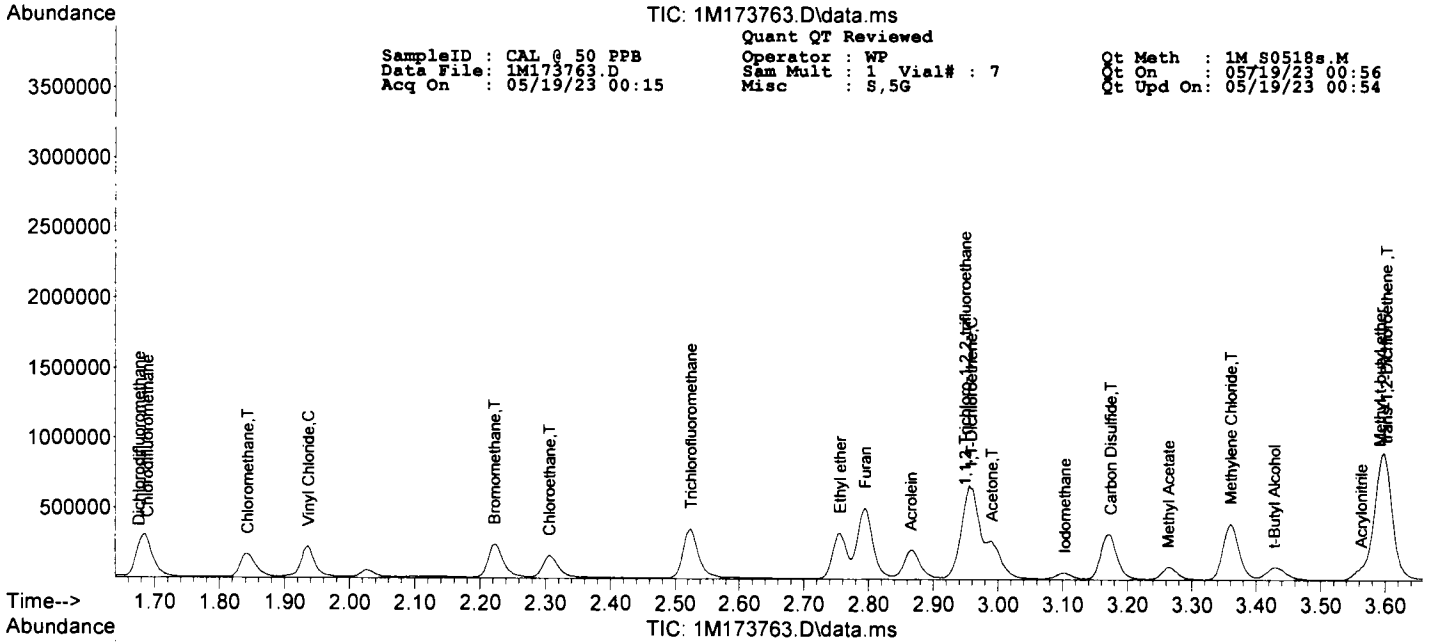
Quantitation Report (QT Reviewed)

SampleID : CAL @ 50 PPB Operator : WP Qt Meth : 1M_S0518s.M
Data File: 1M173763.D Sam Mult : 1 Vial# : 7 Qt On : 05/19/23 00:56
Acq On : 05/19/23 00:15 Misc : S,5G Qt Upd On: 05/19/23 00:54

Data Path : G:\GcMsData\2023\GCMS_1\Data\05-18-23\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.929	133	143845	45.5410	ug/l		97
69)	Chlorobenzene	6.897	112	418048	47.7613	ug/l		97
71)	n-Butyl acrylate	7.158	55	311170	46.1936	ug/l		94
72)	n-Amyl acetate	7.277	43	260633	45.7524	ug/l		88
73)	Bromoform	7.357	173	108479	39.5709	ug/l		98
74)	Ethylbenzene	6.942	106	198429	39.8401	ug/l		92
75)	1,1,2,2-Tetrachloroethane	7.582	83	200877	48.3912	ug/l		99
77)	Styrene	7.235	104	469252	44.5523	ug/l		96
78)	m&p-Xylenes	7.003	106	535957	87.3709	ug/l		99
79)	o-Xylene	7.232	106	278063	43.1017	ug/l		97
80)	trans-1,4-Dichloro-2-b...	7.608	53	96058	41.5190	ug/l		54
81)	1,3-Dichlorobenzene	8.158	146	315206	44.9799	ug/l		99
82)	1,4-Dichlorobenzene	8.203	146	308370	39.7837	ug/l		99
83)	1,2-Dichlorobenzene	8.428	146	303653	44.9905	ug/l		99
84)	Isopropylbenzene	7.428	105	649726	42.0158	ug/l		100
85)	Cyclohexanone	7.502	55	43902	216.3870	ug/l		84
86)	Camphene	7.601	93	250047	44.4192	ug/l		96
87)	1,2,3-Trichloropropane	7.618	75	233239	45.3246	ug/l		68
88)	2-Chlorotoluene	7.727	91	460551	50.6183	ug/l		100
89)	p-Ethyltoluene	7.717	105	697837	49.5604	ug/l		100
90)	4-Chlorotoluene	7.785	91	454134	52.5509	ug/l		98
91)	n-Propylbenzene	7.659	91	811536	46.9437	ug/l		98
92)	Bromobenzene	7.627	77	431158	45.6652	ug/l	#	82
93)	1,3,5-Trimethylbenzene	7.746	105	550628	46.5610	ug/l		99
94)	Butyl methacrylate	7.756	41	203346	51.4020	ug/l		89
95)	t-Butylbenzene	7.945	119	542891	50.2948	ug/l		99
96)	1,2,4-Trimethylbenzene	7.968	105	592363	51.4019	ug/l		99
97)	sec-Butylbenzene	8.068	105	718588	48.6636	ug/l		98
98)	4-Isopropyltoluene	8.142	119	596993	48.3271	ug/l		97
99)	n-Butylbenzene	8.380	91	694250	57.1399	ug/l		87
100)	p-Diethylbenzene	8.360	119	336589	49.3099	ug/l		80
101)	1,2,4,5-Tetramethylben...	8.820	119	501149	48.5936	ug/l		98
102)	1,2-Dibromo-3-Chloropr...	8.878	157	40598	38.9690	ug/l		83
103)	Camphor	9.318	95	149461	383.9638	ug/l		95
104)	Hexachlorobutadiene	9.457	225	101419	35.1271	ug/l		97
105)	1,2,4-Trichlorobenzene	9.370	180	196418	38.8221	ug/l		98
106)	1,2,3-Trichlorobenzene	9.672	180	187875	41.5377	ug/l		99
107)	Naphthalene	9.531	128	480206	40.6378	ug/l		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed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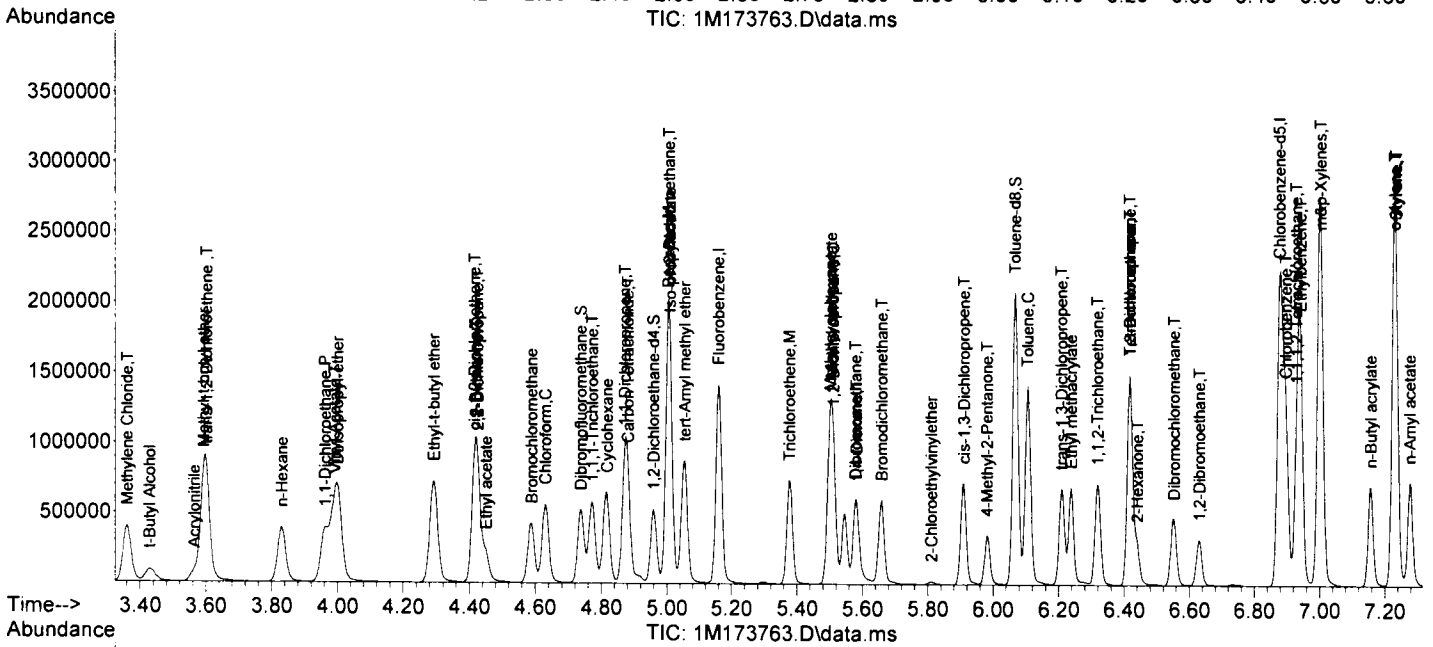
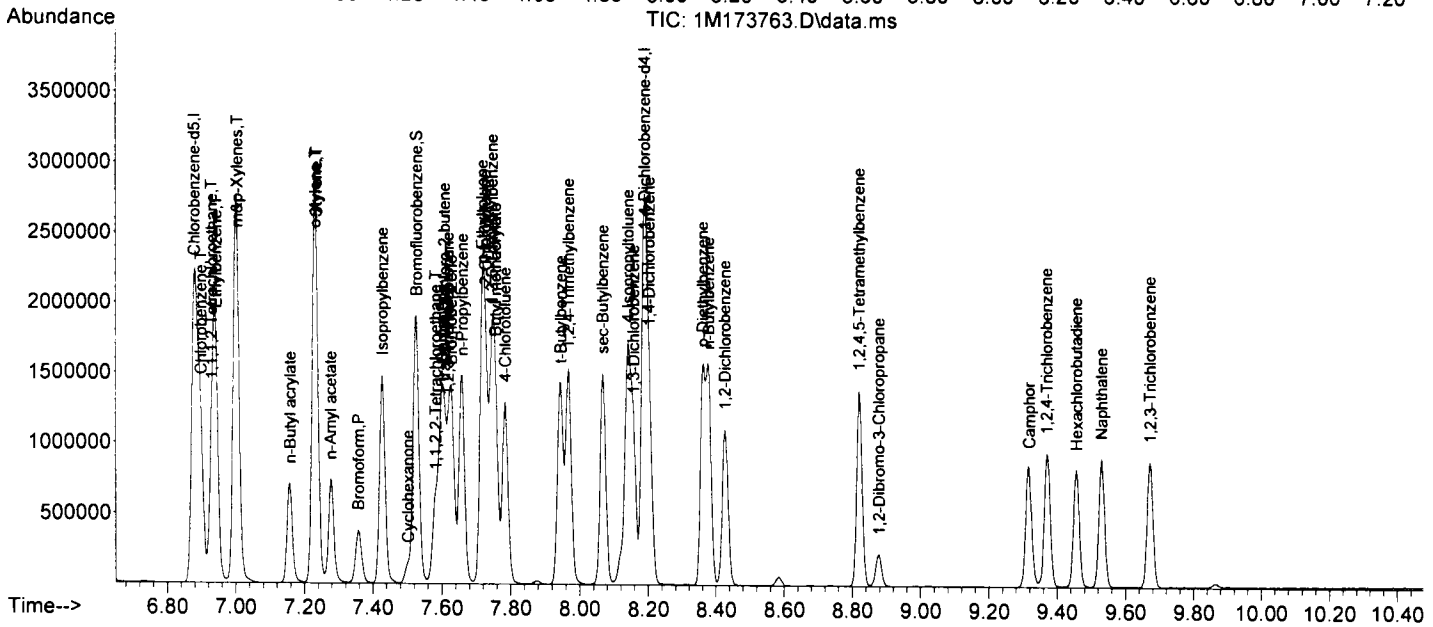
Quant QT Reviewed
SampleID : CAL @ 50 PPB
Data File: 1M173763.D
Acq On : 05/19/23 00:15
Operator : WP
Sam Mult : 1 Vial# : 7
Misc : S,5G
Qt Meth : 1M_S0518s.M
Qt On : 05/19/23 00:56
Qt Upd On: 05/19/23 00:54
Dichlorodifluoromethane
Chloromethane,T
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
Time-->


Abundance
TIC: 1M173763.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,C
Dibromofluoromethane,S
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Time-->


Abundance
TIC: 1M173763.D\data.ms
Chlorobenzene-d5,I
Chlorobenzene,T
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
n-Propylbenzene
4-Chlorotoluene
t-Butylbenzene
sec-Butylbenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4,I
1,4-Dichlorobenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 100 PPB Operator : WP Qt Meth : 1M_S0518s.M
Data File: 1M173765.D Sam Mult : 1 Vial# : 9 Qt On : 05/19/23 01:07
Acq On : 05/19/23 00:56 Misc : S,5G Qt Upd On: 05/19/23 00:54

Data Path : G:\GcMsData\2023\GCMS_1\Data\05-18-23\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.161	96	798783	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.878	117	767674	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.190	152	509720	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.737	111	218084	29.09	ug/l	0.00
Spiked Amount 30.000			Recovery =	96.97%		
39) 1,2-Dichloroethane-d4	4.959	67	120789	31.85	ug/l	0.00
Spiked Amount 30.000			Recovery =	106.17%		
66) Toluene-d8	6.068	98	874322	29.08	ug/l	0.00
Spiked Amount 30.000			Recovery =	96.93%		
76) Bromofluorobenzene	7.524	174	334655	26.14	ug/l	0.00
Spiked Amount 30.000			Recovery =	87.13%		
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.685	51	395342	91.3416	ug/l	88
6) Dichlorodifluoromethane	1.676	85	255734	252.7491	ug/l	93
7) Chloromethane	1.840	50	344956	148.9566	ug/l	95
8) Bromomethane	2.219	94	285574	163.5837	ug/l	96
9) Vinyl Chloride	1.933	62	369996	139.0377	ug/l	100
10) Chloroethane	2.303	64	248437	125.3638	ug/l	97
11) Trichlorofluoromethane	2.521	101	522562	124.7230	ug/l	99
12) Ethyl ether	2.753	59	358313	121.3162	ug/l	78
13) Furan	2.791	39	623348	131.7817	ug/l	74
14) 1,1,2-Trichloro-1,2,2-...	2.946	101	244505	118.3695	ug/l	98
15) Methylene Chloride	3.357	84	337038	119.2162	ug/l	82
16) Acrolein	2.865	56	340428	844.0804	ug/l	99
17) Acrylonitrile	3.560	53	130701	107.6312	ug/l	78
18) Iodomethane	3.100	142	122582	57.1935	ug/l	96
19) Acetone	2.991	43	491227	590.9095	ug/l	91
20) Carbon Disulfide	3.168	76	909507	144.3016	ug/l	100
21) t-Butyl Alcohol	3.431	59	224861	646.3342	ug/l	78
22) n-Hexane	3.827	57	375990	123.6563	ug/l	94
23) Di-isopropyl-ether	4.000	45	966690	106.8338	ug/l	84
24) 1,1-Dichloroethene	2.955	61	503429	113.5000	ug/l	83
25) Methyl Acetate	3.264	43	213810	78.2248	ug/l	100
26) Methyl-t-butyl ether	3.595	73	880523	122.3671	ug/l	92
27) 1,1-Dichloroethane	3.962	63	633235	112.7619	ug/l	98
28) trans-1,2-Dichloroethene	3.598	96	315030	109.3837	ug/l	97
29) Ethyl-t-butyl ether	4.290	59	1099996	125.7274	ug/l	90
30) cis-1,2-Dichloroethene	4.415	61	660512	118.0062	ug/l	83
31) Bromochloromethane	4.586	49	305053	111.8634	ug/l	83
32) 2,2-Dichloropropane	4.425	77	498263	121.4468	ug/l	100
33) Ethyl acetate	4.451	43	349305	116.0297	ug/l	89
34) 1,4-Dioxane	5.579	88	217924	6830.0359	ug/l	88
35) 1,1-Dichloropropene	4.872	75	426604	123.7921	ug/l	99
36) Chloroform	4.631	83	625014	122.6685	ug/l	99
38) Cyclohexane	4.814	56	451461	107.8425	ug/l	78
40) 1,2-Dichloroethane	5.007	62	575256	135.5731	ug/l	99
41) 2-Butanone	4.418	43	136285	120.8988	ug/l	94
42) 1,1,1-Trichloroethane	4.772	97	524554	113.1347	ug/l	96
43) Carbon Tetrachloride	4.878	117	426480	102.3995	ug/l	100
44) Vinyl Acetate	3.988	43	1097274	143.7078	ug/l	100
45) Bromodichloromethane	5.659	83	502018	132.2261	ug/l	98
46) Methylcyclohexane	5.502	83	455060	121.0907	ug/l	89
47) Dibromomethane	5.579	174	209667	105.3145	ug/l	95
48) 1,2-Dichloropropane	5.512	63	369575	117.0093	ug/l	91
49) Trichloroethene	5.380	130	317390	102.2664	ug/l	96
50) Benzene	5.004	78	1276333	113.3093	ug/l	100
51) tert-Amyl methyl ether	5.052	73	899382	138.8261	ug/l	97
53) Iso-propylacetate	5.007	43	688785	105.1212	ug/l	76
54) Methyl methacrylate	5.547	41	324286	113.6383	ug/l	36
55) Dibromochloromethane	6.553	129	345771	100.4073	ug/l	99
56) 2-Chloroethylvinylether	5.811	63	18632m	10.4881	ug/l	
57) cis-1,3-Dichloropropene	5.907	75	554229	111.8238	ug/l	99
58) trans-1,3-Dichloropropene	6.209	75	523765	118.3603	ug/l	95
59) Ethyl methacrylate	6.238	41	330060	115.4594	ug/l	83
60) 1,1,2-Trichloroethane	6.319	97	305861	105.5055	ug/l	92
61) 1,2-Dibromoethane	6.630	107	308716	100.2080	ug/l	98
62) 1,3-Dichloropropane	6.418	76	537499	113.6294	ug/l	98
63) 4-Methyl-2-Pentanone	5.981	43	320511	106.6415	ug/l	83
64) 2-Hexanone	6.438	43	238729	115.3882	ug/l	95
65) Tetrachloroethene	6.418	164	236152	82.0419	ug/l	96
67) Toluene	6.106	92	796134	99.0166	ug/l	98

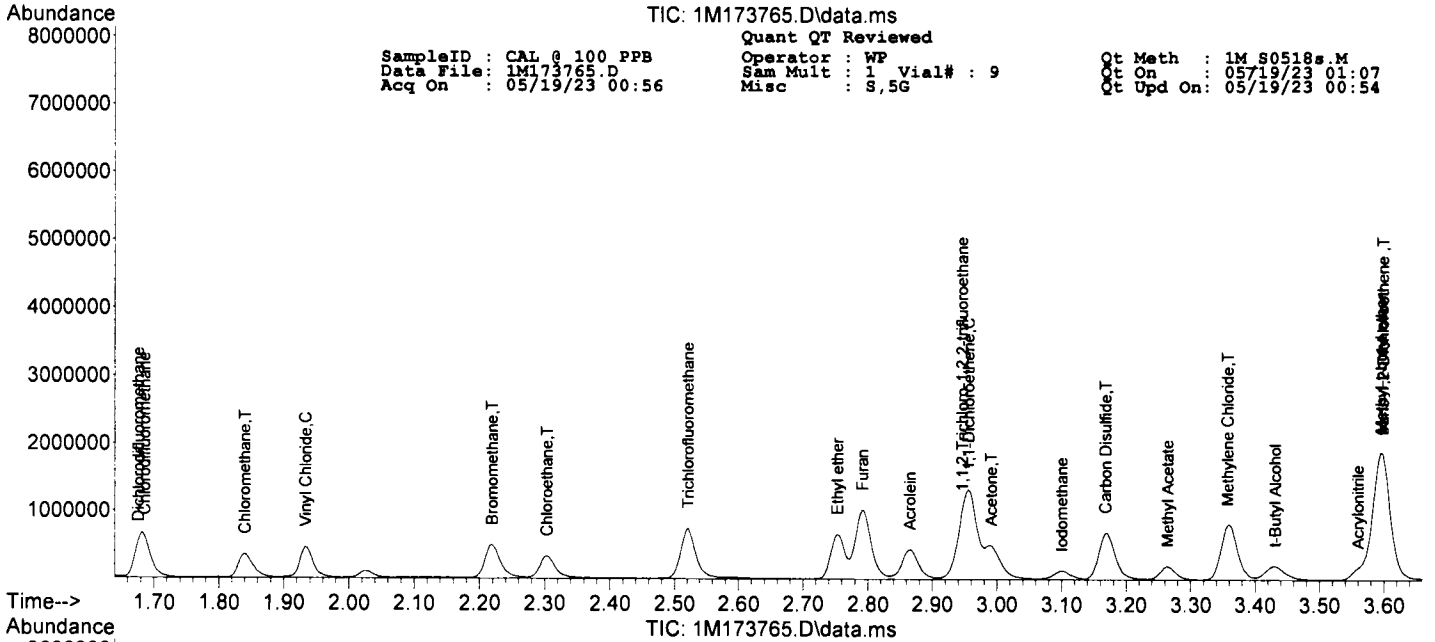
Quantitation Report (QT Reviewed)

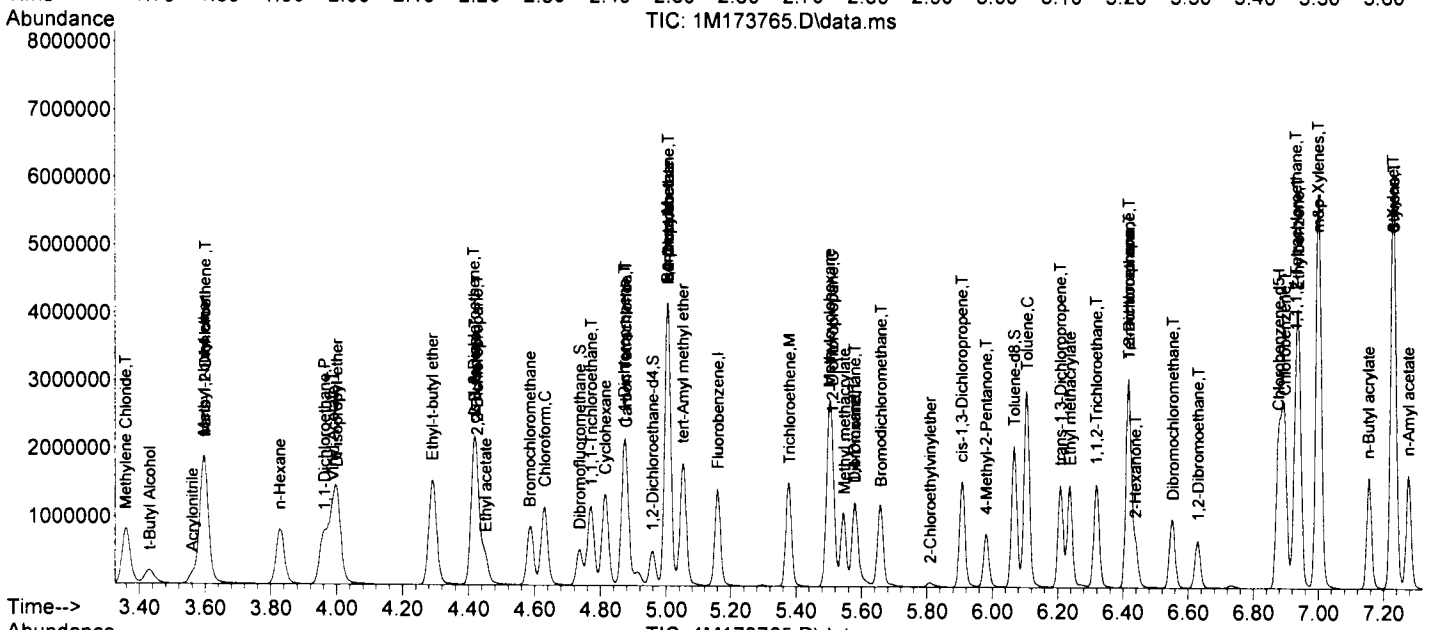
SampleID : CAL @ 100 PPB Operator : WP Qt Meth : 1M_S0518s.M
Data File: 1M173765.D Sam Mult : 1 Vial# : 9 Qt On : 05/19/23 01:07
Acq On : 05/19/23 00:56 Misc : S,5G Qt Upd On: 05/19/23 00:54

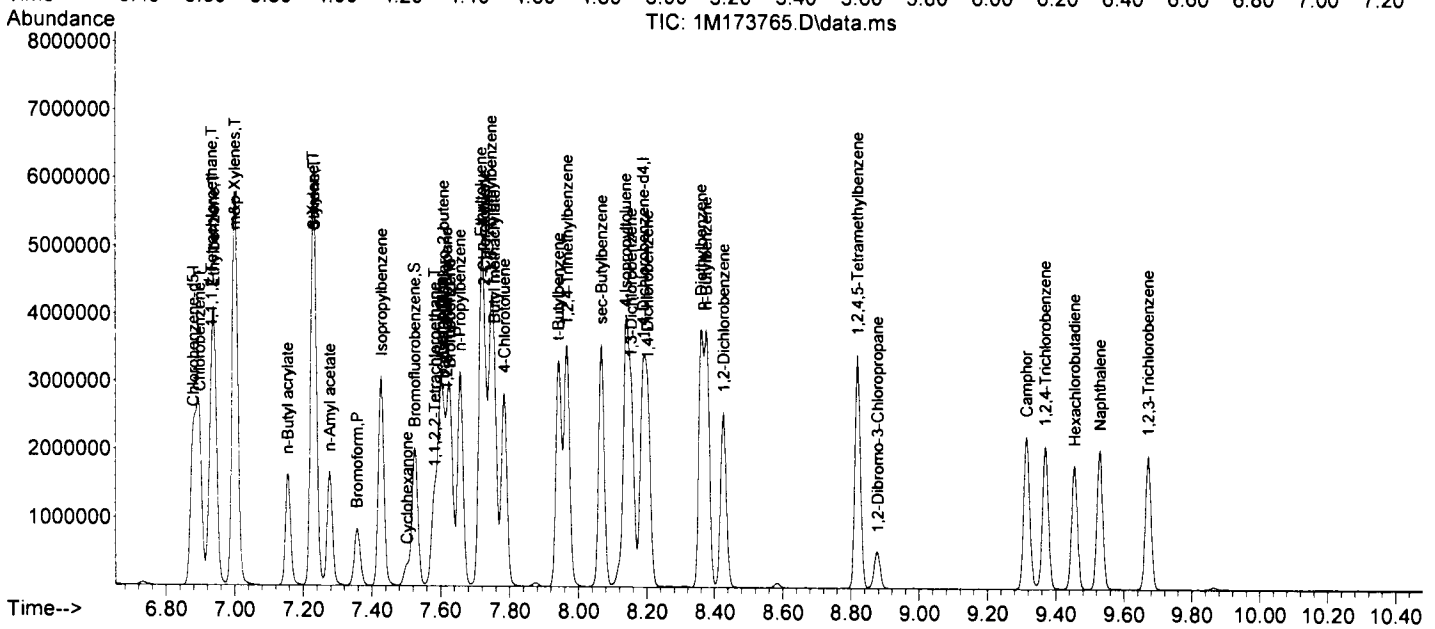
Data Path : G:\GcMsData\2023\GCMS_1\Data\05-18-23\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.933	133	309842	97.7497	ug/l	98
69)	Chlorobenzene	6.897	112	871703	99.2398	ug/l	100
71)	n-Butyl acrylate	7.155	55	713314	95.3903	ug/l	92
72)	n-Amyl acetate	7.277	43	583184	92.2208	ug/l	90
73)	Bromoform	7.357	173	240699	79.0940	ug/l	100
74)	Ethylbenzene	6.939	106	398528	72.0798	ug/l	99
75)	1,1,2,2-Tetrachloroethane	7.582	83	424359	92.0892	ug/l	95
77)	Styrene	7.232	104	983362	84.1039	ug/l	98
78)	m&p-Xylenes	7.000	106	1111607	163.2402	ug/l	100
79)	o-Xylene	7.229	106	581544	81.2032	ug/l	100
80)	trans-1,4-Dichloro-2-b...	7.608	53	213811	83.2496	ug/l	50
81)	1,3-Dichlorobenzene	8.155	146	737414	94.7926	ug/l	98
82)	1,4-Dichlorobenzene	8.203	146	701656	81.5448	ug/l	99
83)	1,2-Dichlorobenzene	8.428	146	722111	96.3799	ug/l	99
84)	Isopropylbenzene	7.428	105	1393382	81.1693	ug/l	100
85)	Cyclohexanone	7.502	55	97602	433.3557	ug/l	84
86)	Camphene	7.602	93	534232	85.4905	ug/l	97
87)	1,2,3-Trichloropropane	7.618	75	527181	92.2850	ug/l	70
88)	2-Chlorotoluene	7.727	91	982334	97.2586	ug/l	98
89)	p-Ethyltoluene	7.717	105	1529227	97.8345	ug/l	97
90)	4-Chlorotoluene	7.785	91	1004468	104.7060	ug/l	99
91)	n-Propylbenzene	7.656	91	1712462	89.2339	ug/l	98
92)	Bromobenzene	7.627	77	971472m	92.6868	ug/l	
93)	1,3,5-Trimethylbenzene	7.746	105	1186250	90.3606	ug/l	96
94)	Butyl methacrylate	7.756	41	465104	105.9091	ug/l	90
95)	t-Butylbenzene	7.942	119	1263004	105.4033	ug/l	99
96)	1,2,4-Trimethylbenzene	7.968	105	1400142	109.4465	ug/l	99
97)	sec-Butylbenzene	8.068	105	1717280	104.7622	ug/l	98
98)	4-Isopropyltoluene	8.138	119	1413065	103.0441	ug/l	98
99)	n-Butylbenzene	8.376	91	1679770	124.5410	ug/l	97
100)	p-Diethylbenzene	8.360	119	845519	111.5827	ug/l	98
101)	1,2,4,5-Tetramethylben...	8.820	119	1259188	109.9872	ug/l	99
102)	1,2-Dibromo-3-Chloropr...	8.878	157	101570	87.8252	ug/l	83
103)	Camphor	9.315	95	388978	900.1740	ug/l	97
104)	Hexachlorobutadiene	9.457	225	233804	72.9481	ug/l	98
105)	1,2,4-Trichlorobenzene	9.370	180	439877	78.3192	ug/l	99
106)	1,2,3-Trichlorobenzene	9.672	180	406770	81.0143	ug/l	99
107)	Naphthalene	9.531	128	1113107	84.8553	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 1M173765.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 100 PPB
Data File: 1M173765.D
Acq On : 05/19/23 00:56
Operator : WP
Sam Mult : 1 Vial# : 9
Misc : S,5G
Qt Meth : 1M_S0518s.M
Qt On : 05/19/23 01:07
Qt Upd On: 05/19/23 00:54
Chloromethane,T
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
Time-->


Abundance
TIC: 1M173765.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
n-Butyl acrylate
n-Amyl acetate
Time-->


Abundance
TIC: 1M173765.D\data.ms
Chlorobenzene-d5,I
Chlorobenzene,T
Ethylbenzene,T
m&p-Xylenes,T
o-Xylene,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
Cyclohexanone
n-Propylbenzene
4-Chlorotoluene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,3-Dichlorobenzene
4-Isopropyltoluene
1,4-Dichlorobenzene-d4,I
n-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 250 PPB Operator : WP Qt Meth : 1M_S0518s.M
Data File: 1M173767.D Sam Mult : 1 Vial# : 11 Qt On : 05/19/23 17:32
Acq On : 05/19/23 01:38 Misc : S,5G Qt Upd On: 05/19/23 00:54

Data Path : G:\GcMsData\2023\GCMS_1\Data\05-18-23\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.161	96	843947	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.878	117	821212	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.190	152	569403	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.737	111	231958	29.29	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.63%			
39) 1,2-Dichloroethane-d4	4.959	67	129736	32.38	ug/l	0.00
Spiked Amount 30.000			Recovery = 107.93%			
66) Toluene-d8	6.068	98	932370	28.98	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.60%			
76) Bromofluorobenzene	7.528	174	429508	30.04	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.13%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.689	51	1052016	230.0549	ug/l	83
6) Dichlorodifluoromethane	1.679	85	639224	597.9542	ug/l	96
7) Chloromethane	1.840	50	879113	359.2976	ug/l	96
8) Bromomethane	2.216	94	718224	389.3990	ug/l	99
9) Vinyl Chloride	1.936	62	958141	340.7836	ug/l	97
10) Chloroethane	2.303	64	632653	302.1587	ug/l	94
11) Trichlorofluoromethane	2.521	101	1278419	288.7990	ug/l	99
12) Ethyl ether	2.753	59	918263	294.2639	ug/l	76
13) Furan	2.791	39	1595289	319.2108	ug/l	76
14) 1,1,2-Trichloro-1,2,2-...	2.949	101	569409	260.9095	ug/l	99
15) Methylene Chloride	3.357	84	854305	286.0112	ug/l	80
16) Acrolein	2.865	56	833046	1954.9749	ug/l	92
17) Acrylonitrile	3.563	53	312678	243.7082	ug/l	79
18) Iodomethane	3.100	142	460820	203.5001	ug/l	95
19) Acetone	2.994	43	1168259	1330.1222	ug/l	89
20) Carbon Disulfide	3.168	76	2287690	343.5390	ug/l	100
21) t-Butyl Alcohol	3.428	59	541657	1473.6048	ug/l	79
22) n-Hexane	3.830	57	922979	287.3064	ug/l	94
23) Di-isopropyl-ether	4.000	45	2532927	264.9463	ug/l	85
24) 1,1-Dichloroethene	2.955	61	1269379	270.8711	ug/l	84
25) Methyl Acetate	3.264	43	516040	178.6955	ug/l	100
26) Methyl-t-butyl ether	3.595	73	2265990	298.0544	ug/l	91
27) 1,1-Dichloroethane	3.962	63	1631962	275.0561	ug/l	99
28) trans-1,2-Dichloroethene	3.598	96	786602	258.5053	ug/l	96
29) Ethyl-t-butyl ether	4.293	59	2895324	313.2201	ug/l	89
30) cis-1,2-Dichloroethene	4.415	61	1680936	284.2423	ug/l	79
31) Bromochloromethane	4.589	49	749808	260.2415	ug/l	83
32) 2,2-Dichloropropane	4.422	77	1263833	291.5619	ug/l	100
33) Ethyl acetate	4.451	43	839985	264.0886	ug/l	89
34) 1,4-Dioxane	5.582	88	514785	15270.6473	ug/l	88
35) 1,1-Dichloropropene	4.872	75	1053121	289.2410	ug/l	99
36) Chloroform	4.631	83	1581624	293.8058	ug/l	100
38) Cyclohexane	4.814	56	1122338	253.7504	ug/l	76
40) 1,2-Dichloroethane	5.007	62	1475338	329.0921	ug/l	99
41) 2-Butanone	4.415	43	364376	305.9409	ug/l	96
42) 1,1,1-Trichloroethane	4.772	97	1332389	271.9883	ug/l	98
43) Carbon Tetrachloride	4.881	117	1070465	243.2681	ug/l	99
44) Vinyl Acetate	3.988	43	2802376	347.3804	ug/l	100
45) Bromodichloromethane	5.656	83	1272684	317.2722	ug/l	99
46) Methylcyclohexane	5.502	83	1097737	276.4738	ug/l	87
47) Dibromomethane	5.579	174	516810	245.6985	ug/l	96
48) 1,2-Dichloropropane	5.512	63	946753	283.7058	ug/l	90
49) Trichloroethene	5.377	130	786186	239.7610	ug/l	99
50) Benzene	5.004	78	3169293	266.3040	ug/l	100
51) tert-Amyl methyl ether	5.055	73	2327774	340.0802	ug/l	96
53) Iso-propylacetate	5.007	43	1765362	251.8616	ug/l	77
54) Methyl methacrylate	5.544	41	811563	265.8521	ug/l	34
55) Dibromochloromethane	6.553	129	903511	245.2628	ug/l	100
56) 2-Chloroethylvinylether	5.807	63	70495m	37.0953	ug/l	
57) cis-1,3-Dichloropropene	5.907	75	1431043	269.9102	ug/l	99
58) trans-1,3-Dichloropropene	6.209	75	1346389	284.4209	ug/l	96
59) Ethyl methacrylate	6.238	41	858522	280.7432	ug/l	82
60) 1,1,2-Trichloroethane	6.322	97	758145	244.4696	ug/l	95
61) 1,2-Dibromoethane	6.630	107	783804	237.8330	ug/l	100
62) 1,3-Dichloropropane	6.418	76	1356629	268.0992	ug/l	99
63) 4-Methyl-2-Pentanone	5.981	43	795729	247.4972	ug/l	83
64) 2-Hexanone	6.438	43	595711	269.1617	ug/l	91
65) Tetrachloroethene	6.418	164	574326	186.5195	ug/l	99
67) Toluene	6.106	92	2004071	233.0003	ug/l	95

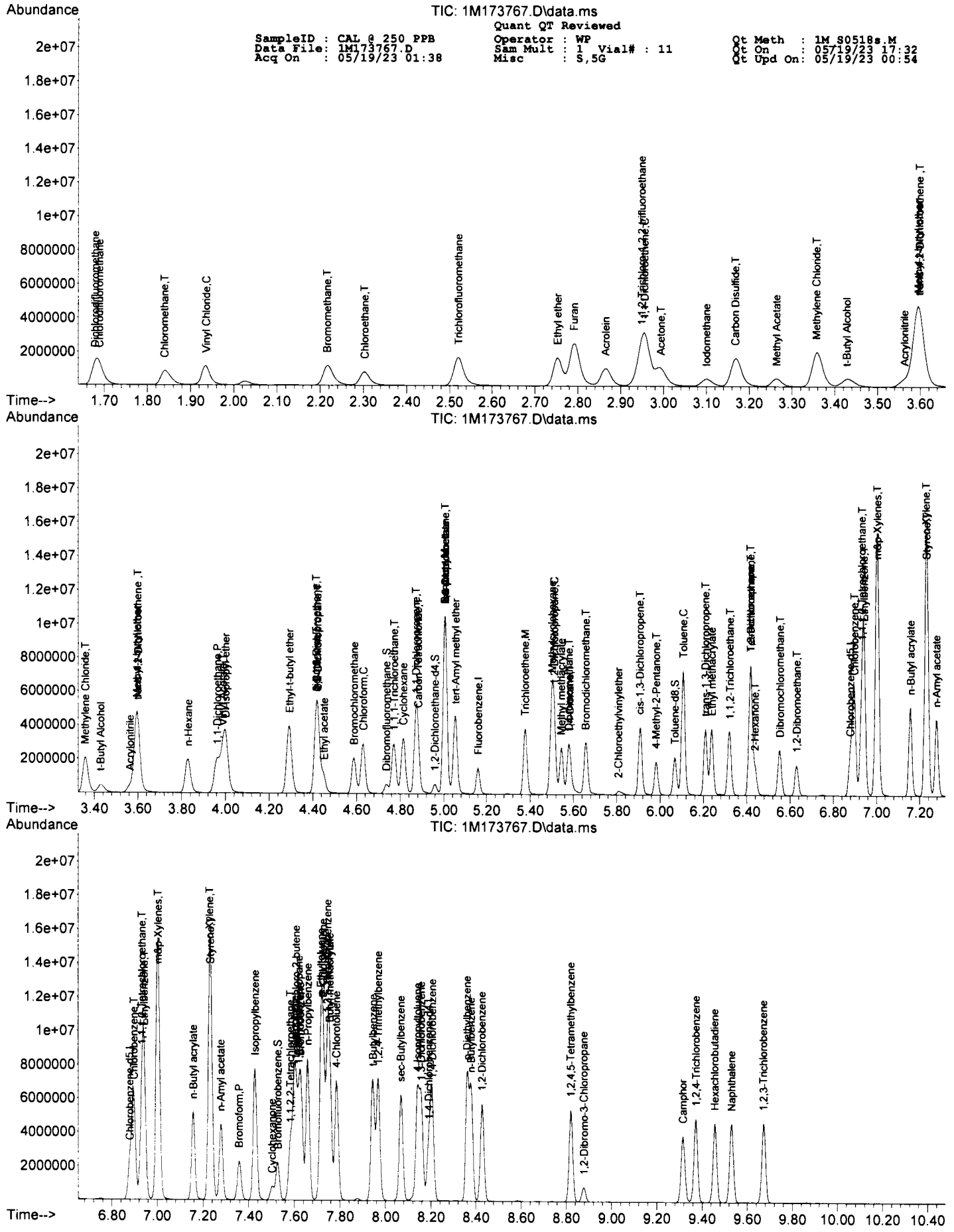
Quantitation Report (QT Reviewed)

SampleID : CAL @ 250 PPB Operator : WP Qt Meth : 1M_S0518s.M
Data File: 1M173767.D Sam Mult : 1 Vial# : 11 Qt On : 05/19/23 17:32
Acq On : 05/19/23 01:38 Misc : S,5G Qt Upd On: 05/19/23 00:54

Data Path : G:\GcMsData\2023\GCMS_1\Data\05-18-23\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.933	133	781162	230.3763	ug/l	99
69)	Chlorobenzene	6.897	112	2192815	233.3677	ug/l	99
71)	n-Butyl acrylate	7.158	55	2336936	279.7577	ug/l	91
72)	n-Amyl acetate	7.277	43	1682983	238.2401	ug/l	84
73)	Bromoform	7.357	173	716999	210.9112	ug/l	99
74)	Ethylbenzene	6.942	106	1019520	165.0678	ug/l	96
75)	1,1,2,2-Tetrachloroethane	7.582	83	1148325	223.0755	ug/l	97
77)	Styrene	7.232	104	2679795	205.1711	ug/l	97
78)	m&p-Xylenes	7.003	106	3042099	399.9089	ug/l	95
79)	o-Xylene	7.229	106	1617276	202.1559	ug/l	94
80)	trans-1,4-Dichloro-2-b...	7.608	53	590442	205.7980	ug/l	46
81)	1,3-Dichlorobenzene	8.158	146	1683137	193.6844	ug/l	96
82)	1,4-Dichlorobenzene	8.206	146	1782770	185.4724	ug/l	99
83)	1,2-Dichlorobenzene	8.428	146	1684037	201.2083	ug/l	98
84)	Isopropylbenzene	7.428	105	3641289	189.8841	ug/l	97
85)	Cyclohexanone	7.502	55	281091	1117.2354	ug/l	78
86)	Camphene	7.602	93	1499556	214.8139	ug/l	98
87)	1,2,3-Trichloropropane	7.621	75	1386358	217.2495	ug/l	70
88)	2-Chlorotoluene	7.727	91	2566239	227.4459	ug/l	98
89)	p-Ethyltoluene	7.717	105	3998416	228.9917	ug/l	99
90)	4-Chlorotoluene	7.785	91	2565124	239.3623	ug/l	98
91)	n-Propylbenzene	7.659	91	4561845	212.7949	ug/l	96
92)	Bromobenzene	7.627	77	2632797m	224.8624	ug/l	
93)	1,3,5-Trimethylbenzene	7.746	105	3133002	213.6366	ug/l	97
94)	Butyl methacrylate	7.756	41	1241770	253.1257	ug/l	91
95)	t-Butylbenzene	7.946	119	2895828	216.3386	ug/l	95
96)	1,2,4-Trimethylbenzene	7.968	105	2858972	200.0560	ug/l	97
97)	sec-Butylbenzene	8.068	105	3139624	171.4562	ug/l	95
98)	4-Isopropyltoluene	8.142	119	2627619	171.5281	ug/l	99
99)	n-Butylbenzene	8.380	91	3149300	209.0203	ug/l	93
100)	p-Diethylbenzene	8.360	119	1826067	215.7257	ug/l	80
101)	1,2,4,5-Tetramethylben...	8.820	119	2097299	163.9925	ug/l	98
102)	1,2-Dibromo-3-Chloropr...	8.878	157	188814	146.1504	ug/l	67
103)	Camphor	9.315	95	713632	1478.3853	ug/l	91
104)	Hexachlorobutadiene	9.457	225	645784	180.3687	ug/l	99
105)	1,2,4-Trichlorobenzene	9.373	180	1122964	178.9843	ug/l	99
106)	1,2,3-Trichlorobenzene	9.672	180	1085118	193.4647	ug/l	99
107)	Naphthalene	9.531	128	2676578	182.6559	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 1M173767.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 250 PPB
Data File: 1M173767.D
Acq On : 05/19/23 01:38
Operator : WP
Sam Mult : 1 Vial# : 11
Misc : S,5G
Qt Meth : 1M_S0518s.M
Qt On : 05/19/23 17:32
Qt Upd On: 05/19/23 00:54
Chloromethane,T
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
Time-->

Abundance
TIC: 1M173767.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
n-Butyl acrylate
n-Amyl acetate
Time-->

Abundance
TIC: 1M173767.D\data.ms
Chlorobenzene-d5,I
Chlorobenzene,T
m&p-Xylenes,T
Styrene,T
o-Xylene,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromochlorobenzene,S
n-Propylbenzene
4-Chlorotoluene
sec-Butylbenzene
1,2,4-Trimethylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 500 PPB Operator : WP Qt Meth : 1M_S0518s.M
Data File: 1M173770.D Sam Mult : 1 Vial# : 14 Qt On : 05/19/23 17:33
Acq On : 05/19/23 02:40 Misc : S,5G Qt Upd On: 05/19/23 00:54

Data Path : G:\GcMsData\2023\GCMS_1\Data\05-18-23\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.161	96	1056529	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.881	117	1045214	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.193	152	578208	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.737	111	244004	24.61	ug/l	0.00
Spiked Amount 30.000			Recovery = 82.03%			
39) 1,2-Dichloroethane-d4	4.958	67	134302	26.77	ug/l	0.00
Spiked Amount 30.000			Recovery = 89.23%			
66) Toluene-d8	6.068	98	1144527	27.95	ug/l	0.00
Spiked Amount 30.000			Recovery = 93.17%			
76) Bromofluorobenzene	7.527	174	386091	26.59	ug/l	0.00
Spiked Amount 30.000			Recovery = 88.63%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.685	51	2347331	410.0315	ug/l	88
6) Dichlorodifluoromethane	1.676	85	1509891	1128.2210	ug/l	96
7) Chloromethane	1.840	50	1974943	644.7599	ug/l	96
8) Bromomethane	2.209	94	1524066	660.0434	ug/l	98
9) Vinyl Chloride	1.933	62	2140861	608.2351	ug/l	97
10) Chloroethane	2.296	64	1427880	544.7472	ug/l	96
11) Trichlorofluoromethane	2.518	101	2971264	536.1637	ug/l	98
12) Ethyl ether	2.753	59	2098129	537.0761	ug/l	75
13) Furan	2.788	39	3547704	567.0473	ug/l	76
14) 1,1,2-Trichloro-1,2,2-...	2.942	101	1385160	506.9899	ug/l	98
15) Methylene Chloride	3.357	84	1917388	512.7596	ug/l	79
16) Acrolein	2.865	56	1783987	3344.2415	ug/l	94
17) Acrylonitrile	3.563	53	678774	422.6022	ug/l	82
18) Iodomethane	3.100	142	1371552	483.8150	ug/l	98
19) Acetone	2.994	43	2397645	2180.5751	ug/l	89
20) Carbon Disulfide	3.168	76	5203354	624.1601	ug/l	100
21) t-Butyl Alcohol	3.434	59	1166213	2534.3599	ug/l	78
22) n-Hexane	3.827	57	2221641	552.4095	ug/l	93
23) Di-isopropyl-ether	4.000	45	5797887	484.4386	ug/l	85
24) 1,1-Dichloroethene	2.955	61	3037163	517.6941	ug/l	81
25) Methyl Acetate	3.264	43	1119821	309.7509	ug/l	100
26) Methyl-t-butyl ether	3.592	73	5155677	541.6977	ug/l	91
27) 1,1-Dichloroethane	3.958	63	3725560	501.5758	ug/l	100
28) trans-1,2-Dichloroethene	3.598	96	1793253	470.7494	ug/l	94
29) Ethyl-t-butyl ether	4.293	59	6669330	576.3263	ug/l	90
30) cis-1,2-Dichloroethene	4.415	61	3853272	520.4763	ug/l	77
31) Bromochloromethane	4.585	49	1678314	465.3004	ug/l	83
32) 2,2-Dichloropropane	4.421	77	2908653	536.0025	ug/l	100
33) Ethyl acetate	4.450	43	1843631	463.0052	ug/l	89
34) 1,4-Dioxane	5.582	88	1258800	29827.8567	ug/l	81
35) 1,1-Dichloropropene	4.872	75	2465271	540.8539	ug/l	99
36) Chloroform	4.630	83	3584919	531.9492	ug/l	99
38) Cyclohexane	4.814	56	2706687	488.8267	ug/l	75
40) 1,2-Dichloroethane	5.007	62	3318958	591.3730	ug/l	99
41) 2-Butanone	4.418	43	776639	520.8836	ug/l	97
42) 1,1,1-Trichloroethane	4.772	97	3058973	498.8024	ug/l	98
43) Carbon Tetrachloride	4.878	117	2464442	447.3682	ug/l	99
44) Vinyl Acetate	3.987	43	6408222	634.5272	ug/l	100
45) Bromodichloromethane	5.659	83	3184890	634.2195	ug/l	99
46) Methylcyclohexane	5.502	83	2929863	589.4361	ug/l	83
47) Dibromomethane	5.579	174	1334323	506.7180	ug/l	97
48) 1,2-Dichloropropane	5.511	63	2343211	560.8887	ug/l	90
49) Trichloroethene	5.376	130	1939691	472.5193	ug/l	99
50) Benzene	5.003	78	7117874	477.7485	ug/l	100
51) tert-Amyl methyl ether	5.055	73	5707676	666.0910	ug/l	96
53) Iso-propylacetate	5.007	43	3961258	444.0290	ug/l	78
54) Methyl methacrylate	5.547	41	2126771	547.3797	ug/l	40
55) Dibromochloromethane	6.553	129	2355245	502.3245	ug/l	98
56) 2-Chloroethylvinylether	5.807	63	214400m	88.6412	ug/l	
57) cis-1,3-Dichloropropene	5.910	75	3528220	522.8443	ug/l	98
58) trans-1,3-Dichloropropene	6.209	75	3346797	555.4826	ug/l	96
59) Ethyl methacrylate	6.238	41	2193824	563.6502	ug/l	79
60) 1,1,2-Trichloroethane	6.322	97	1849230	468.5042	ug/l	93
61) 1,2-Dibromoethane	6.630	107	2057353	490.4825	ug/l	100
62) 1,3-Dichloropropane	6.418	76	3189149	495.1758	ug/l	99
63) 4-Methyl-2-Pentanone	5.981	43	2094829	511.9219	ug/l	83
64) 2-Hexanone	6.441	43	1313240	466.1995	ug/l	90
65) Tetrachloroethene	6.418	164	1402573	357.8832	ug/l	99
67) Toluene	6.106	92	5187298	473.8432	ug/l	87

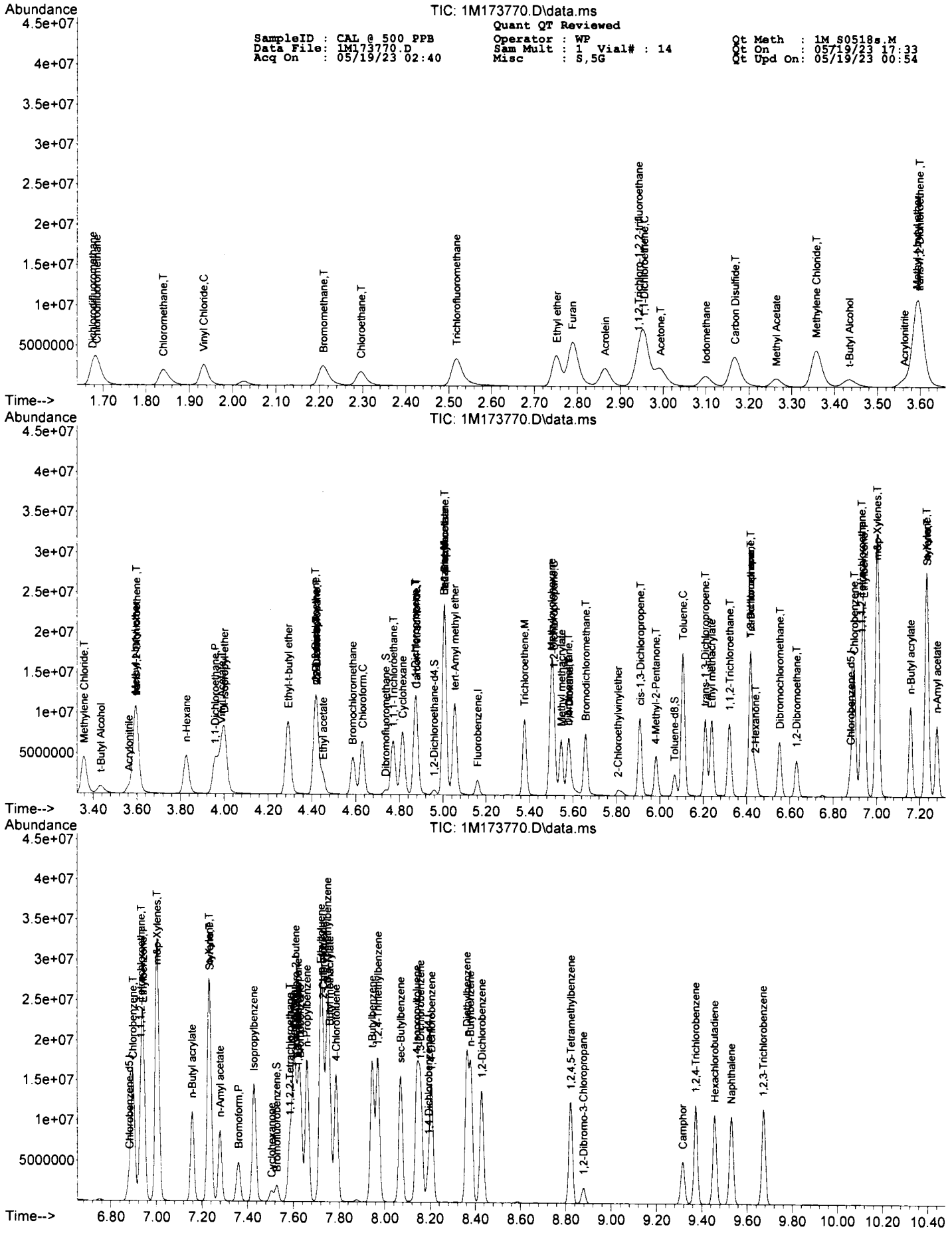
Quantitation Report (QT Reviewed)

SampleID : CAL @ 500 PPB Operator : WP Qt Meth : 1M_S0518s.M
Data File: 1M173770.D Sam Mult : 1 Vial# : 14 Qt On : 05/19/23 17:33
Acq On : 05/19/23 02:40 Misc : S,5G Qt Upd On: 05/19/23 00:54

Data Path : G:\GcMsData\2023\GCMS_1\Data\05-18-23\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.933	133	1925844	446.2394	ug/l	99
69)	Chlorobenzene	6.897	112	5805754	485.4532	ug/l	98
71)	n-Butyl acrylate	7.158	55	5103230	601.6114	ug/l	89
72)	n-Amyl acetate	7.280	43	3366922	469.3575	ug/l	82
73)	Bromoform	7.360	173	1533854	444.3249	ug/l	99
74)	Ethylbenzene	6.942	106	2453756	391.2314	ug/l	84
75)	1,1,2,2-Tetrachloroethane	7.585	83	2422359	463.4055	ug/l	97
77)	Styrene	7.235	104	4991405	376.3338	ug/l	100
78)	m&p-Xylenes	7.003	106	6965010	901.6649	ug/l	61
79)	o-Xylene	7.232	106	3054875	376.0377	ug/l	94
80)	trans-1,4-Dichloro-2-b...	7.611	53	1321659	453.6480	ug/l	46
81)	1,3-Dichlorobenzene	8.158	146	4020636	455.6230	ug/l	98
82)	1,4-Dichlorobenzene	8.206	146	3947718	404.4510	ug/l	99
83)	1,2-Dichlorobenzene	8.431	146	4009516	471.7608	ug/l	99
84)	Isopropylbenzene	7.428	105	6954965	357.1611	ug/l	96
85)	Cyclohexanone	7.505	55	480978	1882.6025	ug/l	76
86)	Camphene	7.601	93	3421485	482.6696	ug/l	97
87)	1,2,3-Trichloropropane	7.621	75	2961340	456.9907	ug/l	72
88)	2-Chlorotoluene	7.730	91	5534471	483.0507	ug/l	99
89)	p-Ethyltoluene	7.720	105	8914609	502.7705	ug/l	100
90)	4-Chlorotoluene	7.788	91	5596824	514.3097	ug/l	99
91)	n-Propylbenzene	7.659	91	9696178	445.4069	ug/l	94
92)	Bromobenzene	7.630	77	5785602m	486.6129	ug/l	
93)	1,3,5-Trimethylbenzene	7.749	105	6596103	442.9330	ug/l	92
94)	Butyl methacrylate	7.759	41	2773461	556.7404	ug/l	89
95)	t-Butylbenzene	7.945	119	7080295	520.8928	ug/l	96
96)	1,2,4-Trimethylbenzene	7.971	105	7153589	492.9483	ug/l	96
97)	sec-Butylbenzene	8.071	105	7970978	428.6698	ug/l	94
98)	4-Isopropyltoluene	8.142	119	6601025	424.3457	ug/l	98
99)	n-Butylbenzene	8.380	91	7943810	519.2052	ug/l	90
100)	p-Diethylbenzene	8.363	119	4555308	529.9546	ug/l	79
101)	1,2,4,5-Tetramethylben...	8.823	119	5016806	386.3016	ug/l	97
102)	1,2-Dibromo-3-Chloropr...	8.878	157	422820	322.2975	ug/l	68
103)	Camphor	9.315	95	966101	1970.9315	ug/l	91
104)	Hexachlorobutadiene	9.457	225	1466788	403.4381	ug/l	100
105)	1,2,4-Trichlorobenzene	9.373	180	2526316	396.5266	ug/l	99
106)	1,2,3-Trichlorobenzene	9.672	180	2605793	457.5098	ug/l	99
107)	Naphthalene	9.531	128	6225203	418.3530	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 1M173770.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 500 PPB
Data File: 1M173770.D
Acq On : 05/19/23 02:40
Operator : WP
Sam Mult : 1 Vial# : 14
Misc : S,5G
Qt Meth : 1M_S0518s.M
Qt On : 05/19/23 17:33
Qt Upd On: 05/19/23 00:54
Dichlorodifluoromethane
Chloromethane,T
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
Time-->

Abundance
TIC: 1M173770.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
n-Butyl acrylate
n-Amyl acetate
Time-->

Abundance
TIC: 1M173770.D\data.ms
Chlorobenzene-d5
Chlorobenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromobenzene,S
n-Propylbenzene
4-Chlorotoluene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 1 PPB Operator : WP Qt Meth : 1M_S0518s.M
Data File: 1M173759.D Sam Mult : 1 Vial# : 3 Qt On : 05/19/23 01:04
Acq On : 05/18/23 22:51 Misc : S,5G Qt Upd On: 05/19/23 00:54

Data Path : G:\GcMsData\2023\GCMS_1\Data\05-18-23\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.161	96	770445	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.878	117	728218	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.190	152	428515	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.737	111	211875	29.30	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.67%			
39) 1,2-Dichloroethane-d4	4.958	67	122916	33.60	ug/l	0.00
Spiked Amount 30.000			Recovery = 112.00%			
66) Toluene-d8	6.068	98	831573	29.15	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.17%			
76) Bromofluorobenzene	7.528	174	308669	28.68	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.60%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	0.000		0	N.D. d		
6) Dichlorodifluoromethane	0.000		0	N.D. d		
7) Chloromethane	0.000		0	N.D. d		
8) Bromomethane	0.000		0	N.D. d		
9) Vinyl Chloride	0.000		0	N.D. d		
10) Chloroethane	0.000		0	N.D. d		
11) Trichlorofluoromethane	0.000		0	N.D. d		
12) Ethyl ether	0.000		0	N.D. d		
13) Furan	0.000		0	N.D. d		
14) 1,1,2-Trichloro-1,2,2-...	0.000		0	N.D. d		
15) Methylene Chloride	0.000		0	N.D. d		
16) Acrolein	0.000		0	N.D. d		
17) Acrylonitrile	0.000		0	N.D. d		
18) Iodomethane	0.000		0	N.D. d		
19) Acetone	0.000		0	N.D. d		
20) Carbon Disulfide	0.000		0	N.D. d		
21) t-Butyl Alcohol	0.000		0	N.D. d		
22) n-Hexane	0.000		0	N.D. d		
23) Di-isopropyl-ether	0.000		0	N.D. d		
24) 1,1-Dichloroethene	0.000		0	N.D. d		
25) Methyl Acetate	0.000		0	N.D. d		
26) Methyl-t-butyl ether	3.595	73	7036	1.0138	ug/l	91
27) 1,1-Dichloroethane	0.000		0	N.D. d		
28) trans-1,2-Dichloroethene	0.000		0	N.D. d		
29) Ethyl-t-butyl ether	0.000		0	N.D. d		
30) cis-1,2-Dichloroethene	0.000		0	N.D. d		
31) Bromochloromethane	0.000		0	N.D. d		
32) 2,2-Dichloropropane	0.000		0	N.D. d		
33) Ethyl acetate	0.000		0	N.D. d		
34) 1,4-Dioxane	0.000		0	N.D. d		
35) 1,1-Dichloropropene	0.000		0	N.D. d		
36) Chloroform	0.000		0	N.D. d		
38) Cyclohexane	0.000		0	N.D. d		
40) 1,2-Dichloroethane	0.000		0	N.D. d		
41) 2-Butanone	0.000		0	N.D. d		
42) 1,1,1-Trichloroethane	0.000		0	N.D. d		
43) Carbon Tetrachloride	0.000		0	N.D. d		
44) Vinyl Acetate	0.000		0	N.D. d		
45) Bromodichloromethane	0.000		0	N.D. d		
46) Methylcyclohexane	0.000		0	N.D. d		
47) Dibromomethane	0.000		0	N.D. d		
48) 1,2-Dichloropropane	0.000		0	N.D. d		
49) Trichloroethene	0.000		0	N.D. d		
50) Benzene	5.004	78	11764	1.0828	ug/l	100
51) tert-Amyl methyl ether	0.000		0	N.D. d		
53) Iso-propylacetate	0.000		0	N.D. d		
54) Methyl methacrylate	0.000		0	N.D. d		
55) Dibromochloromethane	0.000		0	N.D. d		
56) 2-Chloroethylvinylether	0.000		0	N.D.		
57) cis-1,3-Dichloropropene	0.000		0	N.D. d		
58) trans-1,3-Dichloropropene	0.000		0	N.D. d		
59) Ethyl methacrylate	0.000		0	N.D. d		
60) 1,1,2-Trichloroethane	0.000		0	N.D. d		
61) 1,2-Dibromoethane	6.630	107	2952	1.0101	ug/l	97
62) 1,3-Dichloropropane	0.000		0	N.D. d		
63) 4-Methyl-2-Pentanone	0.000		0	N.D. d		
64) 2-Hexanone	0.000		0	N.D. d		
65) Tetrachloroethene	0.000		0	N.D. d		
67) Toluene	6.106	92	9363	1.2276	ug/l	86

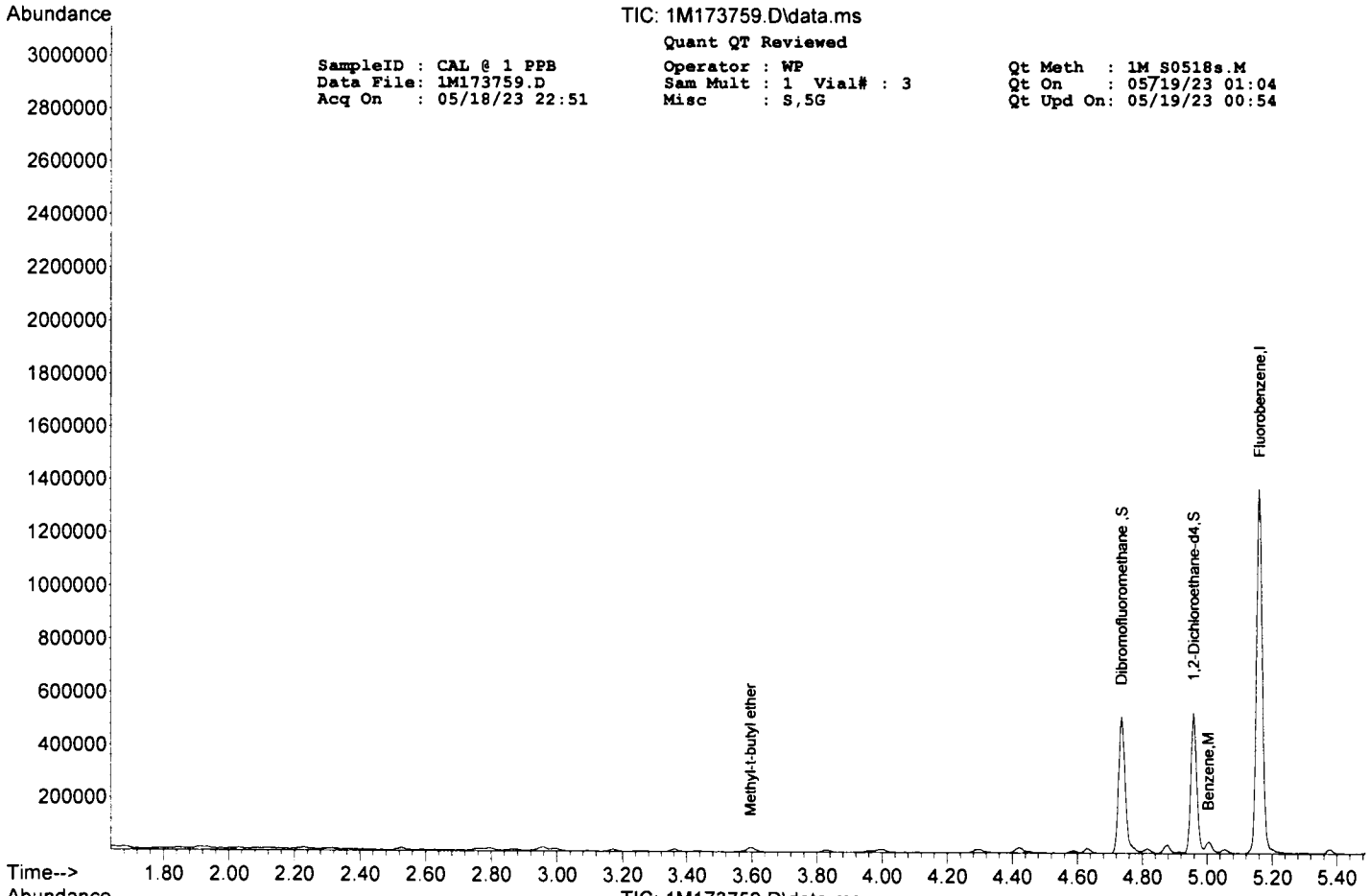
Quantitation Report (QT Reviewed)

SampleID : CAL @ 1 PPB Operator : WP Qt Meth : 1M_S0518s.M
Data File: 1M173759.D Sam Mult : 1 Vial# : 3 Qt On : 05/19/23 01:04
Acq On : 05/18/23 22:51 Misc : S,5G Qt Upd On: 05/19/23 00:54

Data Path : G:\GcMsData\2023\GCMS_1\Data\05-18-23\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	0.000		0	N.D. d		
69)	Chlorobenzene	0.000		0	N.D. d		
71)	n-Butyl acrylate	0.000		0	N.D. d		
72)	n-Amyl acetate	0.000		0	N.D. d		
73)	Bromoform	0.000		0	N.D. d		
74)	Ethylbenzene	6.939	106	3574	0.7689	ug/l	80
75)	1,1,2,2-Tetrachloroethane	0.000		0	N.D. d		
77)	Styrene	0.000		0	N.D. d		
78)	m&p-Xylenes	7.003	106	9974	1.7423	ug/l	99
79)	o-Xylene	7.235	106	5683	0.9439	ug/l	59
80)	trans-1,4-Dichloro-2-b...	0.000		0	N.D. d		
81)	1,3-Dichlorobenzene	0.000		0	N.D. d		
82)	1,4-Dichlorobenzene	0.000		0	N.D. d		
83)	1,2-Dichlorobenzene	0.000		0	N.D. d		
84)	Isopropylbenzene	7.428	105	10338	0.7163	ug/l	81
85)	Cyclohexanone	0.000		0	N.D. d		
86)	Camphene	0.000		0	N.D. d		
87)	1,2,3-Trichloropropane	0.000		0	N.D. d		
88)	2-Chlorotoluene	0.000		0	N.D. d		
89)	p-Ethyltoluene	0.000		0	N.D. d		
90)	4-Chlorotoluene	0.000		0	N.D. d		
91)	n-Propylbenzene	7.653	91	13544	0.8395	ug/l	96
92)	Bromobenzene	7.627	77	10335m	1.1729	ug/l	
93)	1,3,5-Trimethylbenzene	7.746	105	8340	0.7557	ug/l	76
94)	Butyl methacrylate	7.756	41	3989	1.0805	ug/l	89
95)	t-Butylbenzene	7.942	119	8027	0.7968	ug/l	91
96)	1,2,4-Trimethylbenzene	7.971	105	9328	0.8673	ug/l	85
97)	sec-Butylbenzene	8.071	105	8383	0.6083	ug/l	82
98)	4-Isopropyltoluene	8.138	119	14662m	1.2718	ug/l	
99)	n-Butylbenzene	8.376	91	9585	0.8453	ug/l	85
100)	p-Diethylbenzene	0.000		0	N.D. d		
101)	1,2,4,5-Tetramethylben...	0.000		0	N.D. d		
102)	1,2-Dibromo-3-Chloropr...	0.000		0	N.D. d		
103)	Camphor	0.000		0	N.D. d		
104)	Hexachlorobutadiene	0.000		0	N.D. d		
105)	1,2,4-Trichlorobenzene	0.000		0	N.D. d		
106)	1,2,3-Trichlorobenzene	0.000		0	N.D. d		
107)	Naphthalene	9.534	128	14322	1.2987	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed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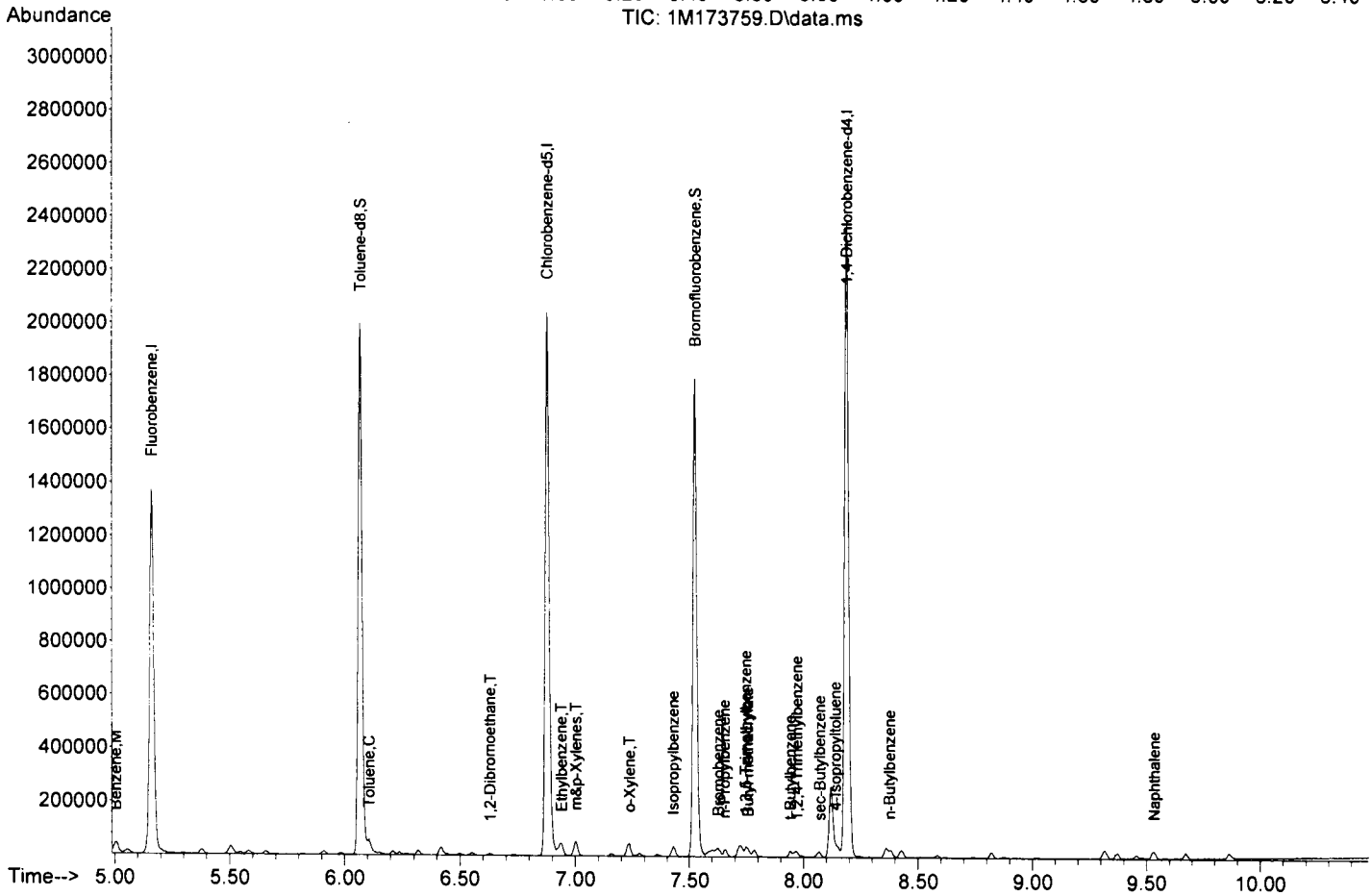
Quant QT Reviewed
SampleID : CAL @ 1 PPB
Data File: 1M173759.D
Acq On : 05/18/23 22:51
Operator : WP
Sam Mult : 1 Vial# : 3
Misc : S,5G
Qt Meth : 1M_S0518s.M
Qt On : 05/19/23 01:04
Qt Upd On: 05/19/23 00:54
Methyl-t-butyl ether
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Benzene,M
Fluorobenzene,I
Time-->


Abundance
TIC: 1M173759.D\data.ms
Benzene,M
Fluorobenzene,I
Toluene-d8,S
Toluene,C
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Ethylbenzene,T
m&p-Xylenes,T
o-Xylene,T
Isopropylbenzene
Bromofluorobenzene,S
n-Propylbenzene
sec-Butylbenzene
4-Isopropyltoluene
1,4-Dichlorobenzene-d4,I
n-Butylbenzene
Naphthalene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 0.5 PPB Operator : WP Qt Meth : 1M_S0518s.M
Data File: 1M173758.D Sam Mult : 1 Vial# : 2 Qt On : 05/19/23 01:06
Acq On : 05/18/23 22:30 Misc : S,5G Qt Upd On: 05/19/23 00:54

Data Path : G:\GcMsData\2023\GCMS_1\Data\05-18-23\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.161	96	792485	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.878	117	758193	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.190	152	432908	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.737	111	219193	29.47	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.23%			
39) 1,2-Dichloroethane-d4	4.959	67	124675	33.13	ug/l	0.00
Spiked Amount 30.000			Recovery = 110.43%			
66) Toluene-d8	6.068	98	862494	29.04	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.80%			
76) Bromofluorobenzene	7.524	174	310231	28.54	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.13%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	0.000		0	N.D.	d	
6) Dichlorodifluoromethane	0.000		0	N.D.	d	
7) Chloromethane	0.000		0	N.D.	d	
8) Bromomethane	0.000		0	N.D.	d	
9) Vinyl Chloride	0.000		0	N.D.	d	
10) Chloroethane	0.000		0	N.D.	d	
11) Trichlorofluoromethane	0.000		0	N.D.	d	
12) Ethyl ether	0.000		0	N.D.	d	
13) Furan	0.000		0	N.D.	d	
14) 1,1,2-Trichloro-1,2,2-...	0.000		0	N.D.	d	
15) Methylene Chloride	0.000		0	N.D.	d	
16) Acrolein	0.000		0	N.D.	d	
17) Acrylonitrile	0.000		0	N.D.	d	
18) Iodomethane	0.000		0	N.D.	d	
19) Acetone	0.000		0	N.D.	d	
20) Carbon Disulfide	0.000		0	N.D.	d	
21) t-Butyl Alcohol	0.000		0	N.D.	d	
22) n-Hexane	0.000		0	N.D.	d	
23) Di-isopropyl-ether	0.000		0	N.D.	d	
24) 1,1-Dichloroethene	0.000		0	N.D.	d	
25) Methyl Acetate	0.000		0	N.D.	d	
26) Methyl-t-butyl ether	0.000		0	N.D.	d	
27) 1,1-Dichloroethane	0.000		0	N.D.	d	
28) trans-1,2-Dichloroethene	0.000		0	N.D.	d	
29) Ethyl-t-butyl ether	0.000		0	N.D.	d	
30) cis-1,2-Dichloroethene	0.000		0	N.D.	d	
31) Bromochloromethane	0.000		0	N.D.	d	
32) 2,2-Dichloropropane	0.000		0	N.D.	d	
33) Ethyl acetate	0.000		0	N.D.	d	
34) 1,4-Dioxane	0.000		0	N.D.	d	
35) 1,1-Dichloropropene	0.000		0	N.D.	d	
36) Chloroform	0.000		0	N.D.	d	
38) Cyclohexane	0.000		0	N.D.	d	
40) 1,2-Dichloroethane	0.000		0	N.D.	d	
41) 2-Butanone	0.000		0	N.D.	d	
42) 1,1,1-Trichloroethane	0.000		0	N.D.	d	
43) Carbon Tetrachloride	0.000		0	N.D.	d	
44) Vinyl Acetate	0.000		0	N.D.	d	
45) Bromodichloromethane	0.000		0	N.D.	d	
46) Methylcyclohexane	0.000		0	N.D.	d	
47) Dibromomethane	0.000		0	N.D.	d	
48) 1,2-Dichloropropane	0.000		0	N.D.	d	
49) Trichloroethene	0.000		0	N.D.	d	
50) Benzene	0.000		0	N.D.	d	
51) tert-Amyl methyl ether	0.000		0	N.D.	d	
53) Iso-propylacetate	0.000		0	N.D.	d	
54) Methyl methacrylate	0.000		0	N.D.	d	
55) Dibromochloromethane	0.000		0	N.D.	d	
56) 2-Chloroethylvinylether	0.000		0	N.D.		
57) cis-1,3-Dichloropropene	0.000		0	N.D.	d	
58) trans-1,3-Dichloropropene	0.000		0	N.D.	d	
59) Ethyl methacrylate	0.000		0	N.D.	d	
60) 1,1,2-Trichloroethane	0.000		0	N.D.	d	
61) 1,2-Dibromoethane	6.634	107	1649	0.5420	ug/l	85
62) 1,3-Dichloropropane	0.000		0	N.D.	d	
63) 4-Methyl-2-Pentanone	0.000		0	N.D.	d	
64) 2-Hexanone	0.000		0	N.D.	d	
65) Tetrachloroethene	0.000		0	N.D.	d	
67) Toluene	0.000		0	N.D.	d	

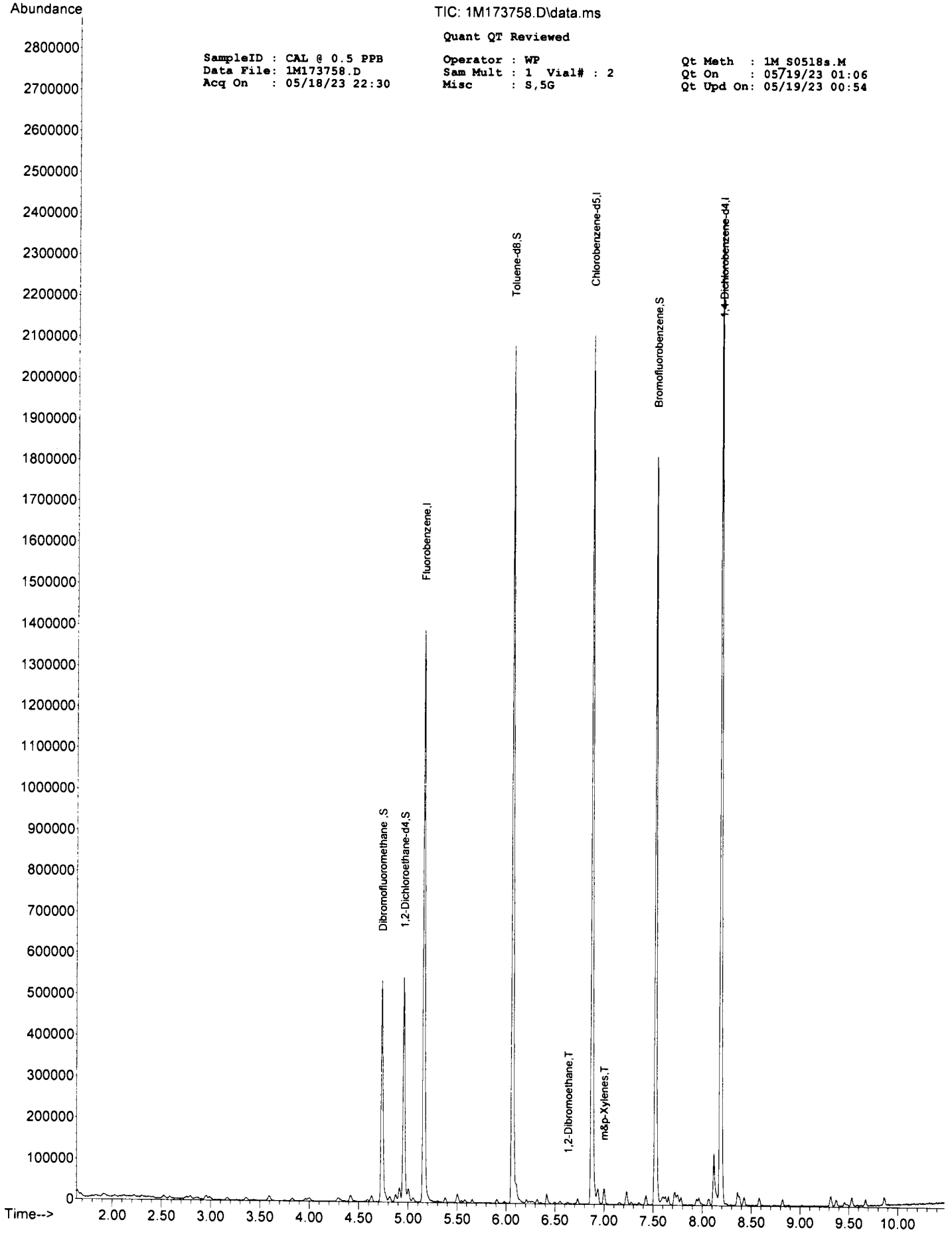
Quantitation Report (QT Reviewed)

SampleID : CAL @ 0.5 PPB Operator : WP Qt Meth : 1M_S0518s.M
Data File: 1M173758.D Sam Mult : 1 Vial# : 2 Qt On : 05/19/23 01:06
Acq On : 05/18/23 22:30 Misc : S,5G Qt Upd On: 05/19/23 00:54

Data Path : G:\GcMsData\2023\GCMS_1\Data\05-18-23\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	0.000		0	N.D.	d	
69)	Chlorobenzene	0.000		0	N.D.	d	
71)	n-Butyl acrylate	0.000		0	N.D.	d	
72)	n-Amyl acetate	0.000		0	N.D.	d	
73)	Bromoform	0.000		0	N.D.	d	
74)	Ethylbenzene	0.000		0	N.D.	d	
75)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.	d	
77)	Styrene	0.000		0	N.D.	d	
78)	m&p-Xylenes	7.000	106	7223	1.2489	ug/l	93
79)	o-Xylene	0.000		0	N.D.	d	
80)	trans-1,4-Dichloro-2-b...	0.000		0	N.D.	d	
81)	1,3-Dichlorobenzene	0.000		0	N.D.	d	
82)	1,4-Dichlorobenzene	0.000		0	N.D.	d	
83)	1,2-Dichlorobenzene	0.000		0	N.D.	d	
84)	Isopropylbenzene	0.000		0	N.D.	d	
85)	Cyclohexanone	0.000		0	N.D.	d	
86)	Camphene	0.000		0	N.D.	d	
87)	1,2,3-Trichloropropane	0.000		0	N.D.	d	
88)	2-Chlorotoluene	0.000		0	N.D.	d	
89)	p-Ethyltoluene	0.000		0	N.D.	d	
90)	4-Chlorotoluene	0.000		0	N.D.	d	
91)	n-Propylbenzene	0.000		0	N.D.	d	
92)	Bromobenzene	0.000		0	N.D.	d	
93)	1,3,5-Trimethylbenzene	0.000		0	N.D.	d	
94)	Butyl methacrylate	0.000		0	N.D.	d	
95)	t-Butylbenzene	0.000		0	N.D.	d	
96)	1,2,4-Trimethylbenzene	0.000		0	N.D.	d	
97)	sec-Butylbenzene	0.000		0	N.D.	d	
98)	4-Isopropyltoluene	0.000		0	N.D.	d	
99)	n-Butylbenzene	0.000		0	N.D.	d	
100)	p-Diethylbenzene	0.000		0	N.D.	d	
101)	1,2,4,5-Tetramethylben...	0.000		0	N.D.	d	
102)	1,2-Dibromo-3-Chloropr...	0.000		0	N.D.	d	
103)	Camphor	0.000		0	N.D.	d	
104)	Hexachlorobutadiene	0.000		0	N.D.	d	
105)	1,2,4-Trichlorobenzene	0.000		0	N.D.	d	
106)	1,2,3-Trichlorobenzene	0.000		0	N.D.	d	
107)	Naphthalene	0.000		0	N.D.	d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 1M173758.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 0.5 PPB
Data File: 1M173758.D
Acq On : 05/18/23 22:30
Operator : WP
Sam Mult : 1 Vial# : 2
Misc : S,5G
Qt Meth : 1M_S0518s.M
Qt On : 05/19/23 01:06
Qt Upd On: 05/19/23 00:54
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

TxtDfile: 1M173775.D ICV FORM Date/Time: 05/19/23 04:25

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
Chlorodifluoromethane	1	0		52.9378	50	106		70	130
Dichlorodifluoromethane	1	0		50.9191	50	102		50	150
Chloromethane	1	0		51.5728	50	103		70	130
Bromomethane	1	0		44.2576	50	89		70	130
Vinyl Chloride	1	0		52.6066	50	105		70	130
Chloroethane	1	0		51.0972	50	102		70	130
Trichlorofluoromethane	1	0		49.9547	50	100		70	130
Ethyl ether	1	0		50.6935	50	101		70	130
Furan	1	0		51.4165	50	103		70	130
1.1.2-Trichloro-1.2.2-trifluoroethane	1	0		48.6952	50	97		70	130
Methylene Chloride	1	0		52.0118	50	104		70	130
Acrolein	1	0		263.1616	250	105		50	150
Acrylonitrile	1	0		53.238	50	106		50	150
Iodomethane	1	0		61.3582	50	123		70	130
Acetone	1	0		257.6617	250	103		50	150
Carbon Disulfide	1	0		49.9653	50	100		70	130
t-Butyl Alcohol	1	0		261.9106	250	105		50	150
n-Hexane	1	0		52.1372	50	104		70	130
Di-isopropyl-ether	1	0		54.6531	50	109		70	130
1.1-Dichloroethene	1	0		54.77	50	110		70	130
Methyl Acetate	1	0		51.511	50	103		70	130
Methyl-t-butyl ether	1	0		55.4263	50	111		70	130
1.1-Dichloroethane	1	0		52.0408	50	104		70	130
trans-1.2-Dichloroethene	1	0		51.0775	50	102		70	130
Ethyl-t-butyl ether	1	0		54.6009	50	109		70	130
cis-1.2-Dichloroethene	1	0		52.9124	50	106		70	130
Bromochloromethane	1	0		52.9793	50	106		70	130
2.2-Dichloropropane	1	0		50.8889	50	102		70	130
Ethyl acetate	1	0		51.8118	50	104		70	130
1.4-Dioxane	1	0		2709.316	2500	108		70	130
1.1-Dichloropropene	1	0		50.208	50	100		70	130
Chloroform	1	0		50.1665	50	100		70	130
Cyclohexane	1	0		50.7307	50	101		70	130
1.2-Dichloroethane	1	0		51.5127	50	103		70	130
2-Butanone	1	0		54.7827	50	110		70	130
1.1.1-Trichloroethane	1	0		50.8933	50	102		70	130
Carbon Tetrachloride	1	0		51.6922	50	103		70	130
Vinyl Acetate	1	0		54.3145	50	109		70	130
Bromodichloromethane	1	0		51.7102	50	103		70	130
Methylcyclohexane	1	0		50.8226	50	102		70	130
Dibromomethane	1	0		51.0907	50	102		70	130
1.2-Dichloropropane	1	0		50.7797	50	102		70	130
Trichloroethene	1	0		48.8965	50	98		70	130
Benzene	1	0		51.1981	50	102		70	130
Iso-propylacetate	1	0		53.488	50	107		70	130
Methyl methacrylate	1	0		51.3569	50	103		70	130
Dibromochloromethane	1	0		51.596	50	103		70	130
2-Chloroethylvinylether	1	0		43.2099	50	86		70	130
cis-1.3-Dichloropropene	1	0		51.3808	50	103		70	130
trans-1.3-Dichloropropene	1	0		51.7162	50	103		70	130
Ethyl methacrylate	1	0		52.9705	50	106		70	130
1.1.2-Trichloroethane	1	0		51.0906	50	102		70	130
1.2-Dibromoethane	1	0		50.3374	50	101		70	130
1.3-Dichloropropane	1	0		52.3499	50	105		70	130
4-Methyl-2-Pentanone	1	0		55.0079	50	110		70	130
2-Hexanone	1	0		54.0578	50	108		70	130
Tetrachloroethene	1	0		49.1303	50	98		70	130
Toluene	1	0		46.9078	50	94		70	130
1.1.1.2-Tetrachloroethane	1	0		48.9364	50	98		70	130
Chlorobenzene	1	0		47.1662	50	94		70	130
n-Butyl acrylate	1	0		52.1042	50	104		70	130
n-Amyl acetate	1	0		54.4365	50	109		70	130
Bromoform	1	0		52.1167	50	104		70	130
Ethylbenzene	1	0		49.4675	50	99		70	130
1.1.2.2-Tetrachloroethane	1	0		51.1386	50	102		70	130
Styrene	1	0		51.4263	50	103		70	130
m&p-Xylenes	1	0		94.7998	100	95		70	130
o-Xylene	1	0		50.5419	50	101		70	130
trans-1.4-Dichloro-2-butene	1	0		53.6709	50	107		70	130
1.3-Dichlorobenzene	1	0		46.9479	50	94		70	130
1.4-Dichlorobenzene	1	0		44.2161	50	88		70	130
1.2-Dichlorobenzene	1	0		46.0428	50	92		70	130
Isopropylbenzene	1	0		52.6944	50	105		70	130
1.2.3-Trichloropropane	1	0		52.3033	50	105		70	130
2-Chlorotoluene	1	0		49.7363	50	99		70	130
4-Chlorotoluene	1	0		47.2396	50	94		70	130
n-Propylbenzene	1	0		51.0473	50	102		70	130
Bromobenzene	1	0		48.3137	50	97		70	130
1.3.5-Trimethylbenzene	1	0		51.1535	50	102		70	130
Butyl methacrylate	1	0		51.1747	50	102		70	130
t-Butylbenzene	1	0		51.9285	50	104		70	130
1.2.4-Trimethylbenzene	1	0		51.5633	50	103		70	130
sec-Butylbenzene	1	0		55.7793	50	112		70	130
4-Isopropyltoluene	1	0		47.8179	50	96		70	130
n-Butylbenzene	1	0		55.0486	50	110		70	130
1.2-Dibromo-3-Chloropropane	1	0		53.4023	50	107		70	130
Hexachlorobutadiene	1	0		49.5654	50	99		70	130
1.2.4-Trichlorobenzene	1	0		46.2733	50	93		70	130
1.2.3-Trichlorobenzene	1	0		44.6257	50	89		70	130
Naphthalene	1	0		47.2561	50	95		70	130

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 1M174815.D **Instrument:** GCMS 1

Cont Calibration Date/Time 6/13/2023 9:45:00 P Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.15	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.69	41.67	50	20	0.1	0.134	0.112	16.65	
Dichlorodifluoromethane	1	0		1.68	41.55	50	20	0.1	0.087	0.072	16.91	
Chloromethane	1	0		1.84	42.28	50	20	0.1	0.121	0.102	15.44	
Bromomethane	1	0		2.22	58.45	50	20	0.1	0.093	0.109	16.90	
Vinyl Chloride	1	0		1.93	54.59	50	20	0.1	0.126	0.137	9.19	
Chloroethane	1	0		2.30	58.85	50	20	0.1	0.086	0.101	17.69	
Trichlorofluoromethane	1	0		2.52	79.04	50	20	0.1	0.184	0.290	58.08	C1
Ethyl ether	1	0		2.75	43.08	50	20	0.5	0.129	0.111	13.85	
Furan	1	0		2.79	41.97	50	20	0.5	0.218	0.183	16.06	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		2.94	80.63	50	20	0.1	0.086	0.139	61.25	C1
Methylene Chloride	1	0		3.35	42.02	50	20	0.1	0.120	0.101	15.97	
Acrolein	1	0		2.86	181.16	250	20		0.024	0.018	27.54	C1
Acrylonitrile	1	0		3.55	31.31	50	20		0.045	0.028	37.37	C1
Iodomethane	1	0		3.09	189.04	50	20		0.041	0.221	278.07	C1
Acetone	1	0		2.98	195.18	250	20	0.1	0.040	0.030	21.93	C1
Carbon Disulfide	1	0		3.16	42.54	50	20	0.1	0.319	0.271	14.92	
t-Butyl Alcohol	1	0		3.42	156.95	250	20		0.016	0.010	37.22	C1
n-Hexane	1	0		3.82	45.35	50	20		0.125	0.113	9.31	
Di-isopropyl-ether	1	0		3.99	40.94	50	20		0.324	0.266	18.11	
1,1-Dichloroethene	1	0		2.96	58.19	50	20	0.1	0.176	0.204	16.37	
Methyl Acetate	1	0		3.26	28.53	50	20	0.1	0.078	0.045	42.94	C1
Methyl-t-butyl ether	1	0		3.59	45.92	50	20	0.1	0.292	0.268	8.17	
1,1-Dichloroethane	1	0		3.95	42.26	50	20	0.2	0.221	0.187	15.49	
trans-1,2-Dichloroethene	1	0		3.59	51.28	50	20	0.1	0.109	0.112	2.57	
Ethyl-t-butyl ether	1	0		4.28	40.43	50	20	0.5	0.365	0.295	19.13	
cis-1,2-Dichloroethene	1	0		4.41	42.45	50	20	0.1	0.227	0.192	15.10	
Bromochloromethane	1	0		4.58	42.81	50	20		0.108	0.092	14.38	
2,2-Dichloropropane	1	0		4.42	57.99	50	20		0.169	0.196	15.97	
Ethyl acetate	1	0		4.44	40.94	50	20		0.123	0.100	18.11	
1,4-Dioxane	1	0		5.58	2353.05	2500	20		0.001	0.001	5.88	
1,1-Dichloropropene	1	0		4.87	57.77	50	20		0.147	0.170	15.54	
Chloroform	1	0		4.62	49.44	50	20	0.2	0.231	0.228	1.12	
Dibromofluoromethane	1	0	S	4.73	31.36	75	**		0.269	0.281	4.53	
Cyclohexane	1	0		4.81	45.99	50	20	0.1	0.153	0.141	8.03	
1,2-Dichloroethane-d4	1	0	S	4.95	27.75	75	**		0.152	0.140	7.49	
1,2-Dichloroethane	1	0		5.00	42.30	50	20	0.1	0.208	0.176	15.40	
2-Butanone	1	0		4.43	44.47	50	20	0.1	0.048	0.043	11.06	
1,1,1-Trichloroethane	1	0		4.76	58.98	50	20	0.1	0.183	0.216	17.97	
Carbon Tetrachloride	1	0		4.87	60.03	50	20	0.1	0.144	0.173	20.07	
Vinyl Acetate	1	0		3.98	38.67	50	20		0.368	0.285	22.66	C1
Bromodichloromethane	1	0		5.65	50.16	50	20	0.2	0.176	0.176	0.33	
Methylcyclohexane	1	0		5.50	64.40	50	20	0.1	0.153	0.197	28.80	C1
Dibromomethane	1	0		5.57	56.82	50	20		0.076	0.086	13.63	
1,2-Dichloropropane	1	0		5.50	42.16	50	20	0.1	0.131	0.110	15.68	
Trichloroethene	1	0		5.37	58.89	50	20	0.2	0.113	0.133	17.78	
Benzene	1	0		5.00	52.34	50	20	0.5	0.446	0.467	4.69	
tert-Amyl methyl ether	1	0		5.05	50.42	50	20		0.306	0.309	0.84	
Chlorobenzene-d5	1	0	I	6.87	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		5.00	40.16	50	20	0.5	0.244	0.196	19.69	
Methyl methacrylate	1	0		5.54	43.07	50	20	0.5	0.120	0.104	13.87	
Dibromochloromethane	1	0		6.55	49.50	50	20	0.1	0.129	0.127	1.00	

S-Surrogate Compound
N/O or N/Q - Not applicable for this run

I-Internal Standard Compound
C1-Compound %Diff exceeds limits

** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F.
624 limits are compared against the concentration found.
625 limits are compared against the %DIFF.
524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 1M174815.D **Instrument:** GCMS 1

Cont Calibration Date/Time 6/13/2023 9:45:00 P Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.90	12.69	50	20		0.005	0.001	74.63	C1
cis-1,3-Dichloropropene	1	0		5.90	48.02	50	20	0.2	0.198	0.190	3.95	
trans-1,3-Dichloropropene	1	0		6.20	48.17	50	20	0.1	0.186	0.180	3.65	
Ethyl methacrylate	1	0		6.23	41.28	50	20	0.5	0.116	0.096	17.45	
1,1,2-Trichloroethane	1	0		6.32	46.54	50	20	0.1	0.114	0.107	6.92	
1,2-Dibromoethane	1	0		6.62	47.35	50	20	0.1	0.118	0.112	5.30	
1,3-Dichloropropane	1	0		6.41	45.36	50	20		0.197	0.179	9.29	
4-Methyl-2-Pentanone	1	0		5.97	41.93	50	20	0.1	0.113	0.095	16.14	
2-Hexanone	1	0		6.43	39.26	50	20	0.1	0.084	0.066	21.48	C1
Tetrachloroethene	1	0		6.41	58.65	50	20	0.2	0.086	0.101	17.31	
Toluene-d8	1	0	S	6.06	30.03	75	**		1.137	1.138	0.09	
Toluene	1	0		6.10	52.15	50	20	0.4	0.311	0.325	4.30	
1,1,1,2-Tetrachloroethane	1	0		6.93	53.54	50	20		0.114	0.122	7.09	
Chlorobenzene	1	0		6.89	52.98	50	20	0.5	0.336	0.356	5.95	
1,4-Dichlorobenzene-d4	1	0	I	8.19	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.15	28.63	50	20	0.5	0.414	0.237	42.74	C1
n-Amyl acetate	1	0		7.27	43.39	50	20	0.5	0.328	0.285	13.21	
Bromoform	1	0		7.35	40.47	50	20	0.1	0.145	0.118	19.07	
Ethylbenzene	1	0		6.94	45.54	50	20	0.1	0.243	0.222	8.92	
1,1,2,2-Tetrachloroethane	1	0		7.58	40.83	50	20	0.1	0.261	0.213	18.33	
Bromofluorobenzene	1	0	S	7.52	25.81	75	**		0.711	0.612	13.98	
Styrene	1	0		7.23	47.13	50	20	0.3	0.564	0.531	5.73	
m&p-Xylenes	1	0		7.00	88.59	100	20	0.1	0.355	0.315	11.41	
o-Xylene	1	0		7.23	45.17	50	20	0.3	0.347	0.314	9.67	
trans-1,4-Dichloro-2-butene	1	0		7.60	32.00	50	20		0.123	0.078	35.99	C1
1,3-Dichlorobenzene	1	0		8.15	54.18	50	20	0.6	0.410	0.444	8.36	
1,4-Dichlorobenzene	1	0		8.20	53.38	50	20	0.5	0.419	0.447	6.76	
1,2-Dichlorobenzene	1	0		8.42	50.02	50	20	0.4	0.407	0.407	0.05	
Isopropylbenzene	1	0		7.42	49.47	50	20	0.1	0.766	0.758	1.07	
Cyclohexanone	1	0		7.50	207.59	250	20		0.012	0.010	16.96	
Camphene	1	0		7.60	51.22	50	20		0.303	0.310	2.43	
1,2,3-Trichloropropane	1	0		7.61	45.87	50	20		0.311	0.285	8.27	
2-Chlorotoluene	1	0		7.72	48.45	50	20		0.568	0.550	3.10	
p-Ethyltoluene	1	0		7.71	52.59	50	20		0.862	0.907	5.17	
4-Chlorotoluene	1	0		7.78	47.70	50	20		0.570	0.544	4.59	
n-Propylbenzene	1	0		7.65	47.06	50	20		0.989	0.931	5.88	
Bromobenzene	1	0		7.62	38.84	50	20		0.608	0.473	22.32	C1
1,3,5-Trimethylbenzene	1	0		7.74	57.66	50	20		0.657	0.758	15.32	
Butyl methacrylate	1	0		7.75	45.30	50	20	0.5	0.257	0.233	9.39	
t-Butylbenzene	1	0		7.94	57.90	50	20		0.646	0.748	15.81	
1,2,4-Trimethylbenzene	1	0		7.96	55.17	50	20		0.703	0.776	10.33	
sec-Butylbenzene	1	0		8.06	60.04	50	20		0.796	0.956	20.07	
4-Isopropyltoluene	1	0		8.14	55.26	50	20		0.768	0.849	10.52	
n-Butylbenzene	1	0		8.37	58.80	50	20		0.793	0.932	17.61	
p-Diethylbenzene	1	0		8.36	58.84	50	20		0.411	0.483	17.68	
1,2,4,5-Tetramethylbenzene	1	0		8.82	51.18	50	20		0.554	0.784	2.36	
1,2-Dibromo-3-Chloropropane	1	0		8.87	57.81	50	20	0.05	0.051	0.059	15.62	
Camphor	1	0		9.31	572.38	500	20		0.019	0.022	14.48	
Hexachlorobutadiene	1	0		9.45	70.01	50	20		0.129	0.180	40.02	C1
1,2,4-Trichlorobenzene	1	0		9.37	66.50	50	20	0.2	0.249	0.331	33.01	C1
1,2,3-Trichlorobenzene	1	0		9.67	60.07	50	20		0.242	0.291	20.13	
Naphthalene	1	0		9.53	49.36	50	20		0.686	0.677	1.28	

S-Surrogate Compound
N/O or N/Q - Not applicable for this run

I-Internal Standard Compound
C1-Compound %Diff exceeds limits

** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F.
624 limits are compared against the concentration found.
625 limits are compared against the %DIFF.
524.2 limits are compared against the %DIFF

Quantitation Report (QT Reviewed)

SampleID : CAL @ 50 PPB Operator : WP Qt Meth : 1M_S0518s.M
Data File: 1M174815.D Sam Mult : 1 Vial# : 42 Qt On : 06/13/23 22:34
Acq On : 06/13/23 21:45 Misc : S,5G:.4 Qt Upd On: 05/19/23 17:55

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.155	96	872467	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.875	117	901107	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.187	152	690265	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.730	111	245454	31.36	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.53%			
39) 1,2-Dichloroethane-d4	4.952	67	122333	27.75	ug/l	0.00
Spiked Amount 30.000			Recovery = 92.50%			
66) Toluene-d8	6.061	98	1025850	30.03	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.10%			
76) Bromofluorobenzene	7.521	174	422171	25.81	ug/l	0.00
Spiked Amount 30.000			Recovery = 86.03%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.689	51	162503m	41.6736	ug/l	
6) Dichlorodifluoromethane	1.676	85	105144	41.5452	ug/l	95
7) Chloromethane	1.840	50	148247m	42.2780	ug/l	
8) Bromomethane	2.219	94	158670	58.4523	ug/l	93
9) Vinyl Chloride	1.933	62	199940	54.5929	ug/l	100
10) Chloroethane	2.303	64	146881	58.8472	ug/l	98
11) Trichlorofluoromethane	2.518	101	421970	79.0393	ug/l	98
12) Ethyl ether	2.750	59	161120	43.0767	ug/l	98
13) Furan	2.788	39	265836m	41.9721	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.942	101	202296	80.6270	ug/l	95
15) Methylene Chloride	3.351	84	147225	42.0163	ug/l	96
16) Acrolein	2.862	56	127286	181.1590	ug/l	91
17) Acrylonitrile	3.553	53	41038m	31.3134	ug/l	
18) Iodomethane	3.094	142	321366m	189.0367	ug/l	
19) Acetone	2.984	43	217786m	195.1841	ug/l	
20) Carbon Disulfide	3.161	76	394273	42.5379	ug/l	100
21) t-Butyl Alcohol	3.425	59	71412m	156.9502	ug/l	
22) n-Hexane	3.820	57	164381	45.3472	ug/l	96
23) Di-isopropyl-ether	3.991	45	386330m	40.9431	ug/l	
24) 1,1-Dichloroethene	2.955	61	296985	58.1856	ug/l	97
25) Methyl Acetate	3.258	43	64732	28.5307	ug/l	100
26) Methyl-t-butyl ether	3.586	73	390292	45.9172	ug/l	93
27) 1,1-Dichloroethane	3.952	63	271203	42.2566	ug/l	97
28) trans-1,2-Dichloroethene	3.589	96	162701	51.2829	ug/l	85
29) Ethyl-t-butyl ether	4.280	59	429060	40.4335	ug/l	98
30) cis-1,2-Dichloroethene	4.409	61	279814	42.4496	ug/l	96
31) Bromochloromethane	4.579	49	134141m	42.8107	ug/l	
32) 2,2-Dichloropropane	4.415	77	284651	57.9867	ug/l	100
33) Ethyl acetate	4.441	43	145937m	40.9428	ug/l	
34) 1,4-Dioxane	5.576	88	101257	2353.0469	ug/l	87
35) 1,1-Dichloropropene	4.865	75	246684	57.7699	ug/l	99
36) Chloroform	4.621	83	331836	49.4385	ug/l	98
38) Cyclohexane	4.807	56	204761	45.9862	ug/l	99
40) 1,2-Dichloroethane	4.997	62	256354	42.3020	ug/l	97
41) 2-Butanone	4.428	43	62546m	44.4711	ug/l	
42) 1,1,1-Trichloroethane	4.762	97	313427	58.9841	ug/l	98
43) Carbon Tetrachloride	4.872	117	251234m	60.0334	ug/l	
44) Vinyl Acetate	3.978	43	414175m	38.6725	ug/l	
45) Bromodichloromethane	5.650	83	256406	50.1634	ug/l	97
46) Methylcyclohexane	5.495	83	286859	64.3991	ug/l	97
47) Dibromomethane	5.573	174	125093	56.8154	ug/l	96
48) 1,2-Dichloropropane	5.502	63	160223	42.1586	ug/l	94
49) Trichloroethene	5.370	130	194031	58.8907	ug/l	98
50) Benzene	4.997	78	678612	52.3439	ug/l	100
51) tert-Amyl methyl ether	5.045	73	448776	50.4180	ug/l	90
53) Iso-propylacetate	5.000	43	294103m	40.1560	ug/l	
54) Methyl methacrylate	5.540	41	155528m	43.0653	ug/l	
55) Dibromochloromethane	6.547	129	191308	49.5024	ug/l	98
56) 2-Chloroethylvinylether	5.901	63	1894m	12.6857	ug/l	
57) cis-1,3-Dichloropropene	5.904	75	285152	48.0229	ug/l	98
58) trans-1,3-Dichloropropene	6.203	75	269630	48.1747	ug/l	96
59) Ethyl methacrylate	6.232	41	144108m	41.2750	ug/l	
60) 1,1,2-Trichloroethane	6.315	97	159957	46.5422	ug/l	98
61) 1,2-Dibromoethane	6.624	107	168295	47.3496	ug/l	99
62) 1,3-Dichloropropane	6.412	76	268911	45.3569	ug/l	98
63) 4-Methyl-2-Pentanone	5.975	43	142677m	41.9308	ug/l	
64) 2-Hexanone	6.434	43	98890m	39.2576	ug/l	
65) Tetrachloroethene	6.412	164	152370m	58.6528	ug/l	
67) Toluene	6.100	92	487591	52.1494	ug/l	98

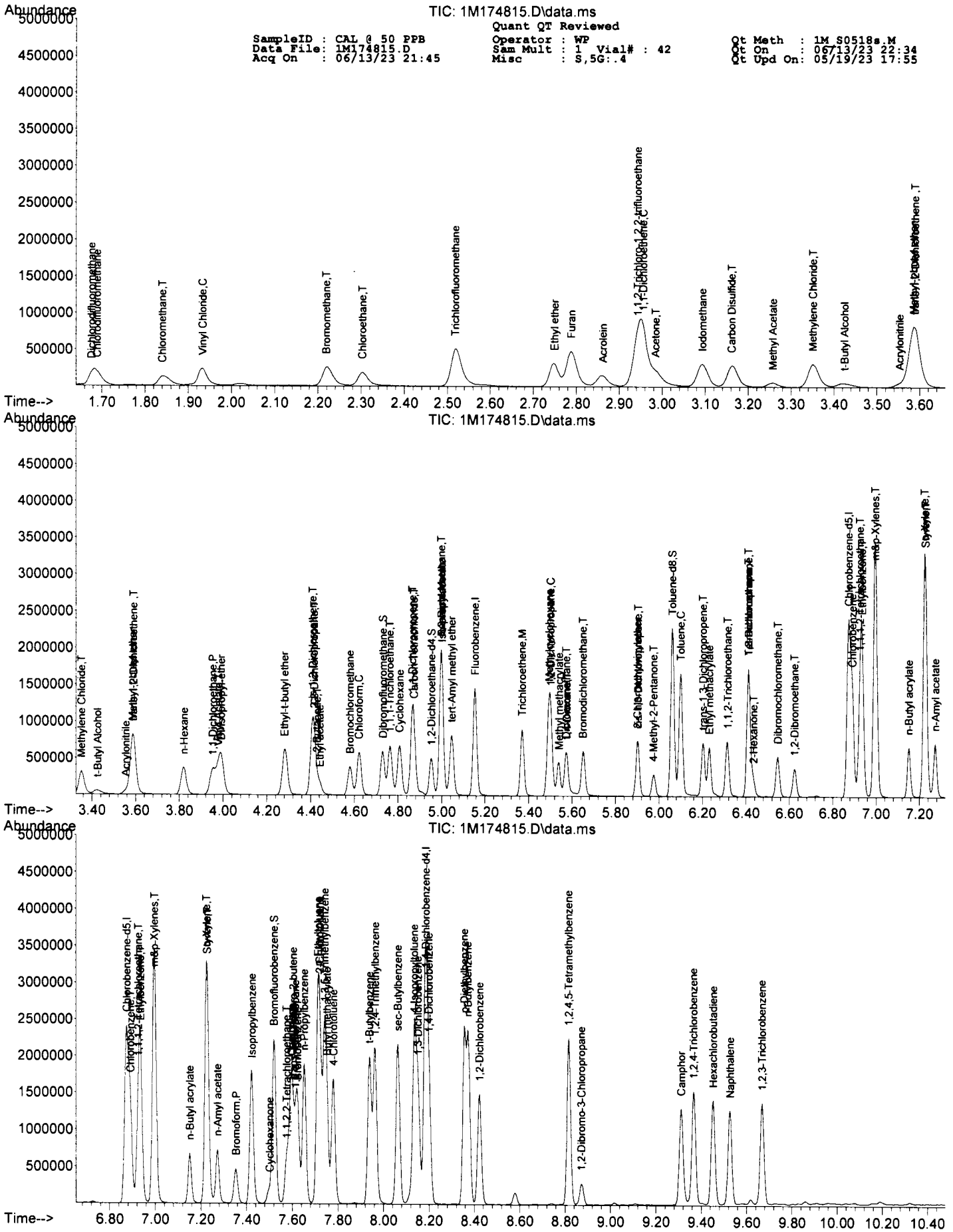
Quantitation Report (QT Reviewed)

SampleID : CAL @ 50 PPB Operator : WP Qt Meth : 1M_S0518s.M
Data File: 1M174815.D Sam Mult : 1 Vial# : 42 Qt On : 06/13/23 22:34
Acq On : 06/13/23 21:45 Misc : S,5G:.4 Qt Upd On: 05/19/23 17:55

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.926	133	183407	53.5447	ug/l	99
69)	Chlorobenzene	6.891	112	535052	52.9750	ug/l	97
71)	n-Butyl acrylate	7.151	55	272420	28.6283	ug/l	98
72)	n-Amyl acetate	7.274	43	327334m	43.3932	ug/l	
73)	Bromoform	7.354	173	135283	40.4661	ug/l	99
74)	Ethylbenzene	6.936	106	255104	45.5425	ug/l	96
75)	1,1,2,2-Tetrachloroethane	7.576	83	245561m	40.8338	ug/l	
77)	Styrene	7.229	104	611294	47.1336	ug/l	95
78)	m&p-Xylenes	6.997	106	723702	88.5911	ug/l	96
79)	o-Xylene	7.225	106	361038	45.1654	ug/l	97
80)	trans-1,4-Dichloro-2-b...	7.605	53	90250	32.0044	ug/l	18
81)	1,3-Dichlorobenzene	8.151	146	510720	54.1782	ug/l	94
82)	1,4-Dichlorobenzene	8.200	146	514173	53.3778	ug/l	99
83)	1,2-Dichlorobenzene	8.425	146	468452	50.0244	ug/l	95
84)	Isopropylbenzene	7.425	105	872154	49.4652	ug/l	98
85)	Cyclohexanone	7.502	55	55135	207.5943	ug/l	95
86)	Camphene	7.598	93	356638	51.2165	ug/l	98
87)	1,2,3-Trichloropropane	7.614	75	328306m	45.8665	ug/l	
88)	2-Chlorotoluene	7.720	91	633279	48.4480	ug/l	94
89)	p-Ethyltoluene	7.714	105	1043059	52.5853	ug/l	99
90)	4-Chlorotoluene	7.782	91	625322	47.7036	ug/l	95
91)	n-Propylbenzene	7.653	91	1070969	47.0593	ug/l	94
92)	Bromobenzene	7.624	77	543769m	38.8387	ug/l	
93)	1,3,5-Trimethylbenzene	7.743	105	871843	57.6593	ug/l	96
94)	Butyl methacrylate	7.753	41	268132m	45.3030	ug/l	
95)	t-Butylbenzene	7.939	119	860192	57.9045	ug/l	95
96)	1,2,4-Trimethylbenzene	7.965	105	892449	55.1666	ug/l	98
97)	sec-Butylbenzene	8.064	105	1099921m	60.0371	ug/l	
98)	4-Isopropyltoluene	8.135	119	976987	55.2586	ug/l	97
99)	n-Butylbenzene	8.373	91	1072511	58.8042	ug/l	90
100)	p-Diethylbenzene	8.357	119	556206m	58.8382	ug/l	
101)	1,2,4,5-Tetramethylben...	8.817	119	901604	51.1800	ug/l	96
102)	1,2-Dibromo-3-Chloropr...	8.872	157	67897	57.8099	ug/l	58
103)	Camphor	9.312	95	256483	572.3779	ug/l	89
104)	Hexachlorobutadiene	9.453	225	207522	70.0114	ug/l	100
105)	1,2,4-Trichlorobenzene	9.367	180	381139	66.5026	ug/l	99
106)	1,2,3-Trichlorobenzene	9.669	180	334859	60.0673	ug/l	99
107)	Naphthalene	9.527	128	779091	49.3603	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 1M174815.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 50 PPB
Data File: 1M174815.D
Acq On : 06/13/23 21:45
Operator : WP
Sam Mult : 1 Vial# : 42
Misc : S,5G:.4
Qt Meth : 1M_S0518s.M
Qt On : 06/13/23 22:34
Qt Upd On: 05/19/23 17:55
Abundance
Time-->

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 1M174851.D **Instrument:** GCMS 1

Cont Calibration Date/Time 6/14/2023 10:29:00 Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.16	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.69	40.28	50	20	0.1	0.134	0.108	19.44	
Dichlorodifluoromethane	1	0		1.68	24.17	50	20	0.1	0.087	0.042	51.67	C1
Chloromethane	1	0		1.84	42.33	50	20	0.1	0.121	0.102	15.33	
Bromomethane	1	0		2.22	48.36	50	20	0.1	0.093	0.090	3.28	
Vinyl Chloride	1	0		1.93	40.17	50	20	0.1	0.126	0.101	19.66	
Chloroethane	1	0		2.30	49.59	50	20	0.1	0.086	0.085	0.81	
Trichlorofluoromethane	1	0		2.52	59.11	50	20	0.1	0.184	0.217	18.22	
Ethyl ether	1	0		2.75	43.45	50	20	0.5	0.129	0.112	13.10	
Furan	1	0		2.79	42.47	50	20	0.5	0.218	0.185	15.06	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		2.95	72.48	50	20	0.1	0.086	0.125	44.97	C1
Methylene Chloride	1	0		3.36	40.70	50	20	0.1	0.120	0.098	18.60	
Acrolein	1	0		2.87	146.37	250	20		0.024	0.014	41.45	C1
Acrylonitrile	1	0		3.56	27.68	50	20		0.045	0.025	44.64	C1
Iodomethane	1	0		3.10	157.91	50	20		0.041	0.178	215.81	C1
Acetone	1	0		2.99	173.48	250	20	0.1	0.040	0.027	30.61	C1
Carbon Disulfide	1	0		3.17	51.62	50	20	0.1	0.319	0.329	3.24	
t-Butyl Alcohol	1	0		3.43	140.26	250	20		0.016	0.009	43.90	C1
n-Hexane	1	0		3.83	41.77	50	20		0.125	0.104	16.46	
Di-isopropyl-ether	1	0		4.00	34.29	50	20		0.324	0.223	31.42	C1
1,1-Dichloroethene	1	0		2.96	49.31	50	20	0.1	0.176	0.173	1.38	
Methyl Acetate	1	0		3.26	27.37	50	20	0.1	0.078	0.043	45.25	C1
Methyl-t-butyl ether	1	0		3.59	42.23	50	20	0.1	0.292	0.247	15.54	
1,1-Dichloroethane	1	0		3.96	38.83	50	20	0.2	0.221	0.171	22.33	C1
trans-1,2-Dichloroethene	1	0		3.60	46.65	50	20	0.1	0.109	0.102	6.71	
Ethyl-t-butyl ether	1	0		4.29	40.82	50	20	0.5	0.365	0.298	18.37	
cis-1,2-Dichloroethene	1	0		4.42	41.69	50	20	0.1	0.227	0.189	16.62	
Bromochloromethane	1	0		4.59	39.97	50	20		0.108	0.086	20.07	
2,2-Dichloropropane	1	0		4.42	52.85	50	20		0.169	0.178	5.70	
Ethyl acetate	1	0		4.45	34.13	50	20		0.123	0.084	31.73	C1
1,4-Dioxane	1	0		5.58	2113.70	2500	20		0.001	0.001	15.45	
1,1-Dichloropropene	1	0		4.87	53.67	50	20		0.147	0.158	7.35	
Chloroform	1	0		4.63	45.89	50	20	0.2	0.231	0.212	8.23	
Dibromofluoromethane	1	0	S	4.74	31.56	75	**		0.269	0.283	5.19	
Cyclohexane	1	0		4.81	42.60	50	20	0.1	0.153	0.130	14.81	
1,2-Dichloroethane-d4	1	0	S	4.96	28.16	75	**		0.152	0.142	6.15	
1,2-Dichloroethane	1	0		5.00	40.38	50	20	0.1	0.208	0.168	19.25	
2-Butanone	1	0		4.44	43.78	50	20	0.1	0.048	0.042	12.45	
1,1,1-Trichloroethane	1	0		4.77	56.19	50	20	0.1	0.183	0.205	12.39	
Carbon Tetrachloride	1	0		4.88	58.50	50	20	0.1	0.144	0.168	17.00	
Vinyl Acetate	1	0		3.99	34.21	50	20		0.368	0.252	31.58	C1
Bromodichloromethane	1	0		5.66	46.78	50	20	0.2	0.176	0.164	6.45	
Methylcyclohexane	1	0		5.50	59.32	50	20	0.1	0.153	0.182	18.64	
Dibromomethane	1	0		5.58	52.80	50	20		0.076	0.080	5.61	
1,2-Dichloropropane	1	0		5.51	39.97	50	20	0.1	0.131	0.104	20.06	
Trichloroethene	1	0		5.38	56.51	50	20	0.2	0.113	0.128	13.01	
Benzene	1	0		5.00	48.23	50	20	0.5	0.446	0.430	3.53	
tert-Amyl methyl ether	1	0		5.05	44.14	50	20		0.306	0.270	11.73	
Chlorobenzene-d5	1	0	I	6.88	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		5.01	32.70	50	20	0.5	0.244	0.159	34.59	C1
Methyl methacrylate	1	0		5.54	30.28	50	20	0.5	0.120	0.073	39.44	C1
Dibromochloromethane	1	0		6.55	48.18	50	20	0.1	0.129	0.124	3.65	

S-Surrogate Compound
N/O or N/Q - Not applicable for this run

I-Internal Standard Compound
C1-Compound %Diff exceeds limits

** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F.
624 limits are compared against the concentration found.
625 limits are compared against the %DIFF.
524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 1M174851.D **Instrument:** GCMS 1

Cont Calibration Date/Time 6/14/2023 10:29:00 Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.85	1.38	50	20		0.005	0.000	97.25	C1
cis-1,3-Dichloropropene	1	0		5.91	45.17	50	20	0.2	0.198	0.179	9.67	
trans-1,3-Dichloropropene	1	0		6.21	45.28	50	20	0.1	0.186	0.169	9.45	
Ethyl methacrylate	1	0		6.24	40.10	50	20	0.5	0.116	0.093	19.80	
1,1,2-Trichloroethane	1	0		6.32	45.55	50	20	0.1	0.114	0.104	8.90	
1,2-Dibromoethane	1	0		6.63	46.05	50	20	0.1	0.118	0.109	7.91	
1,3-Dichloropropane	1	0		6.42	42.85	50	20		0.197	0.169	14.30	
4-Methyl-2-Pentanone	1	0		5.98	42.46	50	20	0.1	0.113	0.096	15.09	
2-Hexanone	1	0		6.44	42.36	50	20	0.1	0.084	0.071	15.27	
Tetrachloroethene	1	0		6.42	59.82	50	20	0.2	0.086	0.103	19.63	
Toluene-d8	1	0	S	6.07	30.14	75	**		1.137	1.143	0.47	
Toluene	1	0		6.10	49.26	50	20	0.4	0.311	0.307	1.49	
1,1,1,2-Tetrachloroethane	1	0		6.93	51.07	50	20		0.114	0.116	2.14	
Chlorobenzene	1	0		6.89	50.46	50	20	0.5	0.336	0.339	0.93	
1,4-Dichlorobenzene-d4	1	0	I	8.19	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.15	47.05	50	20	0.5	0.414	0.389	5.90	
n-Amyl acetate	1	0		7.28	41.20	50	20	0.5	0.328	0.270	17.61	
Bromoform	1	0		7.36	41.39	50	20	0.1	0.145	0.120	17.22	
Ethylbenzene	1	0		6.94	44.96	50	20	0.1	0.243	0.219	10.08	
1,1,2,2-Tetrachloroethane	1	0		7.58	41.14	50	20	0.1	0.261	0.215	17.72	
Bromofluorobenzene	1	0	S	7.52	29.56	75	**		0.711	0.700	1.48	
Styrene	1	0		7.23	47.02	50	20	0.3	0.564	0.530	5.96	
m&p-Xylenes	1	0		7.00	88.76	100	20	0.1	0.355	0.315	11.24	
o-Xylene	1	0		7.23	45.13	50	20	0.3	0.347	0.314	9.75	
trans-1,4-Dichloro-2-butene	1	0		7.60	41.09	50	20		0.123	0.101	17.81	
1,3-Dichlorobenzene	1	0		8.15	55.88	50	20	0.6	0.410	0.458	11.76	
1,4-Dichlorobenzene	1	0		8.20	55.48	50	20	0.5	0.419	0.465	10.97	
1,2-Dichlorobenzene	1	0		8.42	52.87	50	20	0.4	0.407	0.430	5.73	
Isopropylbenzene	1	0		7.42	49.54	50	20	0.1	0.766	0.759	0.91	
Cyclohexanone	1	0		7.50	307.04	250	20		0.012	0.014	22.82	C1
Camphene	1	0		7.60	54.92	50	20		0.303	0.332	9.84	
1,2,3-Trichloropropane	1	0		7.62	42.77	50	20		0.311	0.266	14.46	
2-Chlorotoluene	1	0		7.72	48.47	50	20		0.568	0.551	3.06	
p-Ethyltoluene	1	0		7.71	54.45	50	20		0.862	0.939	8.91	
4-Chlorotoluene	1	0		7.78	48.27	50	20		0.570	0.550	3.46	
n-Propylbenzene	1	0		7.66	52.48	50	20		0.989	1.038	4.97	
Bromobenzene	1	0		7.63	40.63	50	20		0.608	0.494	18.74	
1,3,5-Trimethylbenzene	1	0		7.74	57.16	50	20		0.657	0.751	14.32	
Butyl methacrylate	1	0		7.75	42.68	50	20	0.5	0.257	0.220	14.65	
t-Butylbenzene	1	0		7.94	58.55	50	20		0.646	0.756	17.09	
1,2,4-Trimethylbenzene	1	0		7.96	53.86	50	20		0.703	0.757	7.73	
sec-Butylbenzene	1	0		8.07	59.81	50	20		0.796	0.953	19.62	
4-Isopropyltoluene	1	0		8.14	55.77	50	20		0.768	0.857	11.55	
n-Butylbenzene	1	0		8.38	58.73	50	20		0.793	0.931	17.46	
p-Diethylbenzene	1	0		8.36	65.94	50	20		0.411	0.542	31.89	C1
1,2,4,5-Tetramethylbenzene	1	0		8.82	50.03	50	20		0.554	0.768	0.06	
1,2-Dibromo-3-Chloropropane	1	0		8.87	51.39	50	20	0.05	0.051	0.052	2.78	
Camphor	1	0		9.32	528.00	500	20		0.019	0.021	5.60	
Hexachlorobutadiene	1	0		9.45	71.99	50	20		0.129	0.185	43.98	C1
1,2,4-Trichlorobenzene	1	0		9.37	59.95	50	20	0.2	0.249	0.299	19.90	
1,2,3-Trichlorobenzene	1	0		9.67	59.44	50	20		0.242	0.288	18.89	
Naphthalene	1	0		9.53	47.27	50	20		0.686	0.649	5.46	

S-Surrogate Compound
N/O or N/Q - Not applicable for this run

I-Internal Standard Compound
C1-Compound %Diff exceeds limits

** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F.
624 limits are compared against the concentration found.

625 limits are compared against the %DIFF.
524.2 limits are compared against the %DIFF

Quantitation Report (QT Reviewed)

SampleID : CAL @ 50 PPB Operator : sg Qt Meth : 1M_S0518s.M
Data File: 1M174851.D Sam Mult : 1 Vial# : 4 Qt On : 06/14/23 10:44
Acq On : 06/14/23 10:29 Misc : S,5G:.4 Qt Upd On: 05/19/23 17:55

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-14-23\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.161	96	989505	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.878	117	1012575	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.187	152	758888	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.737	111	280128	31.56	ug/l	0.00
Spiked Amount 30.000			Recovery = 105.20%			
39) 1,2-Dichloroethane-d4	4.959	67	140758	28.16	ug/l	0.00
Spiked Amount 30.000			Recovery = 93.87%			
66) Toluene-d8	6.068	98	1157034	30.14	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.47%			
76) Bromofluorobenzene	7.524	174	531570	29.56	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.53%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.692	51	178130m	40.2780	ug/l	
6) Dichlorodifluoromethane	1.679	85	69363	24.1655	ug/l	97
7) Chloromethane	1.843	50	168360m	42.3349	ug/l	
8) Bromomethane	2.219	94	148891	48.3623	ug/l	95
9) Vinyl Chloride	1.933	62	166853	40.1700	ug/l	97
10) Chloroethane	2.303	64	140393	49.5949	ug/l	96
11) Trichlorofluoromethane	2.521	101	357902m	59.1094	ug/l	
12) Ethyl ether	2.753	59	184317m	43.4499	ug/l	
13) Furan	2.791	39	305090m	42.4723	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.946	101	206261	72.4838	ug/l	94
15) Methylene Chloride	3.357	84	161751m	40.7019	ug/l	
16) Acrolein	2.865	56	116640	146.3719	ug/l	93
17) Acrylonitrile	3.557	53	41145m	27.6817	ug/l	
18) Iodomethane	3.097	142	294149	157.9057	ug/l	98
19) Acetone	2.991	43	220134	173.4789	ug/l	93
20) Carbon Disulfide	3.168	76	542629	51.6194	ug/l	100
21) t-Butyl Alcohol	3.431	59	72379	140.2602	ug/l	74
22) n-Hexane	3.827	57	171722	41.7692	ug/l	94
23) Di-isopropyl-ether	4.000	45	366968m	34.2911	ug/l	
24) 1,1-Dichloroethene	2.959	61	285454	49.3115	ug/l	95
25) Methyl Acetate	3.261	43	70439m	27.3740	ug/l	
26) Methyl-t-butyl ether	3.592	73	407087	42.2283	ug/l	93
27) 1,1-Dichloroethane	3.955	63	282668m	38.8336	ug/l	
28) trans-1,2-Dichloroethene	3.595	96	167847	46.6474	ug/l	88
29) Ethyl-t-butyl ether	4.290	59	491233m	40.8170	ug/l	
30) cis-1,2-Dichloroethene	4.415	61	311690m	41.6925	ug/l	
31) Bromochloromethane	4.586	49	142028m	39.9665	ug/l	
32) 2,2-Dichloropropane	4.422	77	294235	52.8495	ug/l	99
33) Ethyl acetate	4.451	43	137986m	34.1333	ug/l	
34) 1,4-Dioxane	5.579	88	103159m	2113.7016	ug/l	
35) 1,1-Dichloropropene	4.872	75	259940	53.6741	ug/l	98
36) Chloroform	4.627	83	349307	45.8859	ug/l	98
38) Cyclohexane	4.814	56	215116	42.5975	ug/l	98
40) 1,2-Dichloroethane	5.004	62	277508m	40.3764	ug/l	
41) 2-Butanone	4.438	43	69826m	43.7750	ug/l	
42) 1,1,1-Trichloroethane	4.769	97	338657	56.1940	ug/l	97
43) Carbon Tetrachloride	4.878	117	277659	58.5002	ug/l	99
44) Vinyl Acetate	3.988	43	415545	34.2112	ug/l	100
45) Bromodichloromethane	5.656	83	271166	46.7762	ug/l	96
46) Methylcyclohexane	5.499	83	299672m	59.3182	ug/l	
47) Dibromomethane	5.579	174	131858	52.8044	ug/l	96
48) 1,2-Dichloropropane	5.508	63	172283m	39.9701	ug/l	
49) Trichloroethene	5.377	130	211152	56.5069	ug/l	97
50) Benzene	5.000	78	709210	48.2337	ug/l	100
51) tert-Amyl methyl ether	5.052	73	445549	44.1350	ug/l	89
53) Iso-propylacetate	5.007	43	269148	32.7032	ug/l	80
54) Methyl methacrylate	5.544	41	122891m	30.2823	ug/l	
55) Dibromochloromethane	6.550	129	209218	48.1772	ug/l	97
56) 2-Chloroethylvinylether	5.846	63	219m	1.3759	ug/l	
57) cis-1,3-Dichloropropene	5.907	75	301369	45.1668	ug/l	98
58) trans-1,3-Dichloropropene	6.209	75	284748	45.2752	ug/l	96
59) Ethyl methacrylate	6.235	41	157324m	40.0999	ug/l	
60) 1,1,2-Trichloroethane	6.319	97	175912	45.5500	ug/l	98
61) 1,2-Dibromoethane	6.627	107	183903	46.0451	ug/l	97
62) 1,3-Dichloropropane	6.415	76	285488	42.8521	ug/l	99
63) 4-Methyl-2-Pentanone	5.981	43	162332m	42.4553	ug/l	
64) 2-Hexanone	6.438	43	119918m	42.3647	ug/l	
65) Tetrachloroethene	6.418	164	174614m	59.8160	ug/l	
67) Toluene	6.103	92	517500	49.2553	ug/l	99

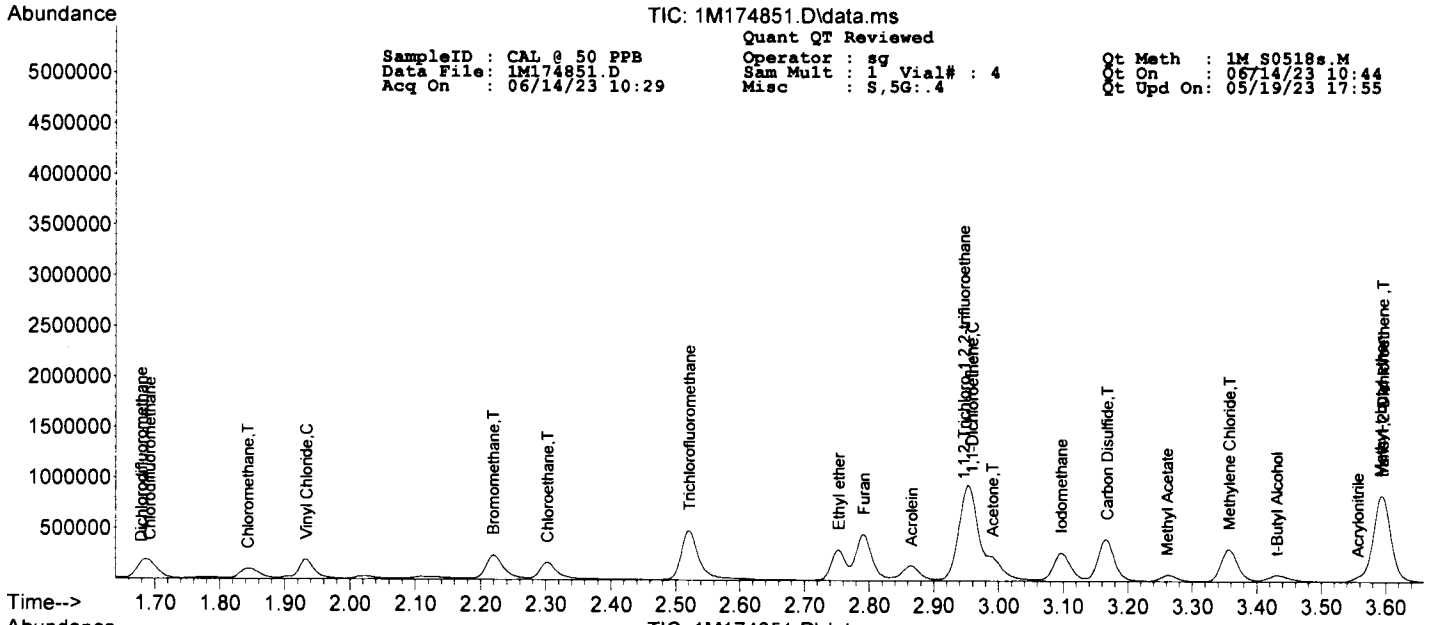
Quantitation Report (QT Reviewed)

SampleID : CAL @ 50 PPB Operator : sg Qt Meth : 1M_S0518s.M
Data File: 1M174851.D Sam Mult : 1 Vial# : 4 Qt On : 06/14/23 10:44
Acq On : 06/14/23 10:29 Misc : S,5G:.4 Qt Upd On: 05/19/23 17:55

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-14-23\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.930	133	196571	51.0703	ug/l	98
69)	Chlorobenzene	6.894	112	572744	50.4643	ug/l	99
71)	n-Butyl acrylate	7.155	55	492217m	47.0491	ug/l	
72)	n-Amyl acetate	7.277	43	341661m	41.1969	ug/l	
73)	Bromoform	7.357	173	152121m	41.3881	ug/l	
74)	Ethylbenzene	6.939	106	276864	44.9577	ug/l	96
75)	1,1,2,2-Tetrachloroethane	7.579	83	272009m	41.1416	ug/l	
77)	Styrene	7.232	104	670424	47.0184	ug/l	94
78)	m&p-Xylenes	7.000	106	797195	88.7632	ug/l	96
79)	o-Xylene	7.229	106	396596	45.1273	ug/l	97
80)	trans-1,4-Dichloro-2-b...	7.605	53	127405m	41.0948	ug/l	
81)	1,3-Dichlorobenzene	8.155	146	579112	55.8782	ug/l	93
82)	1,4-Dichlorobenzene	8.203	146	587601	55.4846	ug/l	98
83)	1,2-Dichlorobenzene	8.425	146	544285	52.8666	ug/l	94
84)	Isopropylbenzene	7.425	105	960394	49.5443	ug/l	98
85)	Cyclohexanone	7.502	55	89654m	307.0407	ug/l	
86)	Camphene	7.598	93	420440	54.9192	ug/l	95
87)	1,2,3-Trichloropropane	7.618	75	336583m	42.7708	ug/l	
88)	2-Chlorotoluene	7.724	91	696536	48.4688	ug/l	94
89)	p-Ethyltoluene	7.714	105	1187521	54.4547	ug/l	98
90)	4-Chlorotoluene	7.782	91	695624	48.2681	ug/l	95
91)	n-Propylbenzene	7.656	91	1313190	52.4849	ug/l	93
92)	Bromobenzene	7.627	77	625372m	40.6281	ug/l	
93)	1,3,5-Trimethylbenzene	7.743	105	950245	57.1617	ug/l	95
94)	Butyl methacrylate	7.753	41	277702m	42.6771	ug/l	
95)	t-Butylbenzene	7.942	119	956204	58.5471	ug/l	93
96)	1,2,4-Trimethylbenzene	7.965	105	957982	53.8627	ug/l	98
97)	sec-Butylbenzene	8.068	105	1204740m	59.8122	ug/l	
98)	4-Isopropyltoluene	8.138	119	1084127	55.7737	ug/l	97
99)	n-Butylbenzene	8.376	91	1177647	58.7300	ug/l	93
100)	p-Diethylbenzene	8.360	119	685355	65.9443	ug/l	78
101)	1,2,4,5-Tetramethylben...	8.820	119	971335	50.0311	ug/l	95
102)	1,2-Dibromo-3-Chloropr...	8.875	157	66356	51.3890	ug/l	60
103)	Camphor	9.315	95	260117	527.9966	ug/l	91
104)	Hexachlorobutadiene	9.454	225	234593	71.9876	ug/l	100
105)	1,2,4-Trichlorobenzene	9.370	180	377727m	59.9475	ug/l	
106)	1,2,3-Trichlorobenzene	9.669	180	364330m	59.4442	ug/l	
107)	Naphthalene	9.527	128	820280	47.2705	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
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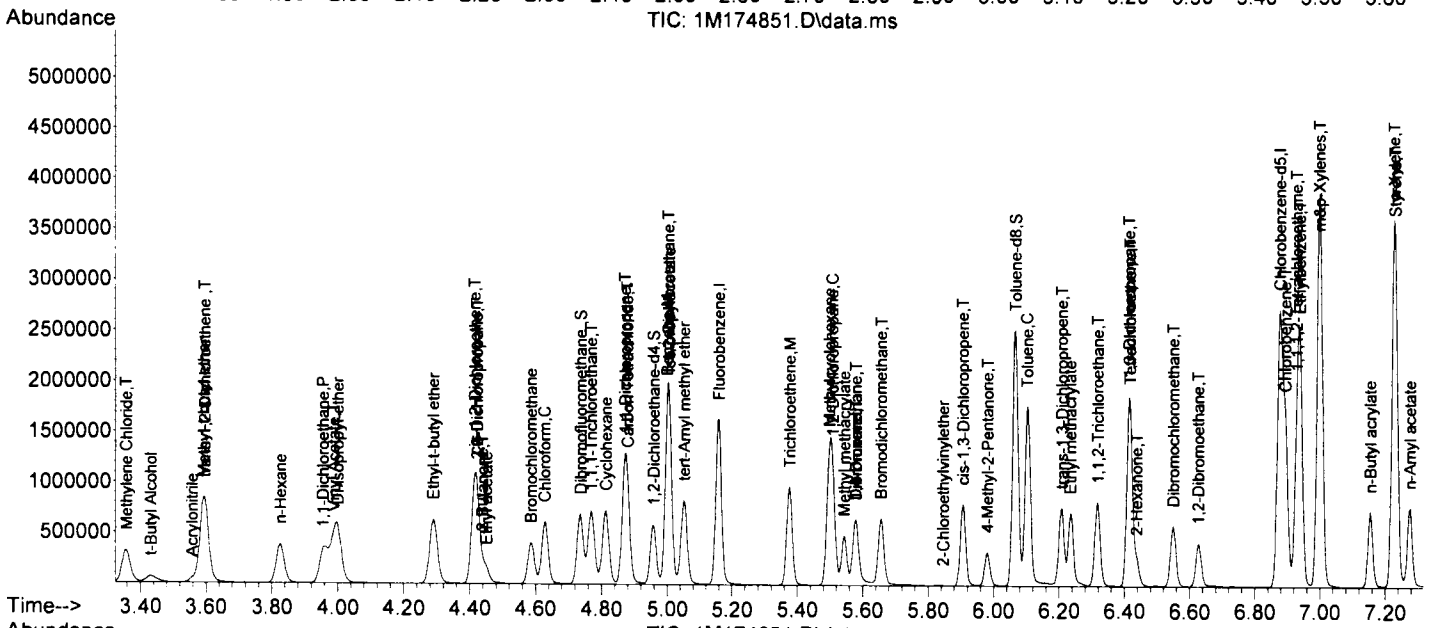
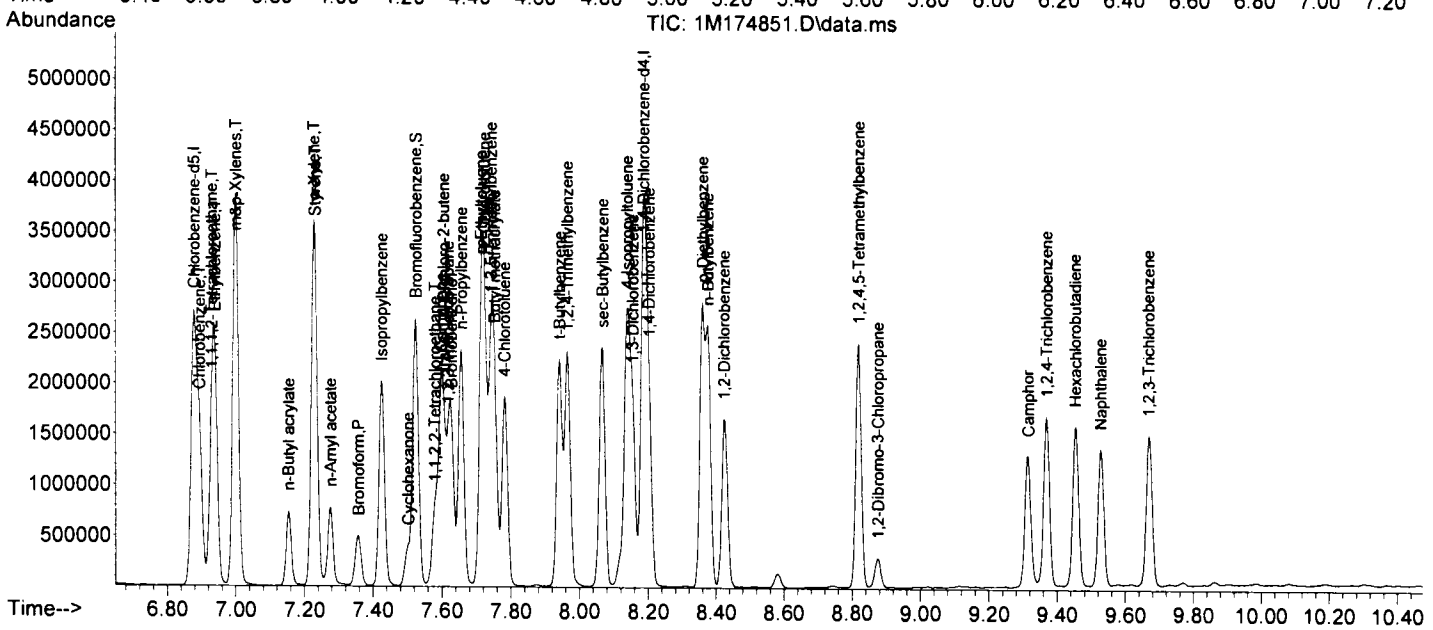
Quant QT Reviewed
SampleID : CAL @ 50 PPB
Data File: 1M174851.D
Acq On : 06/14/23 10:29
Operator : sg
Sam Mult : 1 Vial# : 4
Misc : S,5G:.4
Qt Meth : 1M_S0518s.M
Qt On : 06/14/23 10:44
Qt Upd On: 05/19/23 17:55
Chloromethane,T
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
Time-->


Abundance
TIC: 1M174851.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
Trichloroethene,M
Fluorobenzene,I
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene,C
Toluene-d8,S
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
n-Butyl acrylate
n-Amyl acetate
Time-->


Abundance
TIC: 1M174851.D\data.ms
Bromofluorobenzene,S
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
4-Chlorotoluene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

GC/MS Volatile Data
Raw QC Data

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 1
Data File: 1M173756.D
Analysis Date: 05/18/23 21:54
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.508 to 7.518 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	25.9	3564	PASS
75	95	30	60	59.6	8214	PASS
95	95	100	100	100.0	13787	PASS
96	95	5	9	6.9	947	PASS
173	174	0.00	2	0.9	93	PASS
174	95	50	100	77.1	10629	PASS
175	174	5	9	6.4	677	PASS
176	174	95	101	96.8	10289	PASS
177	176	5	9	8.1	829	PASS

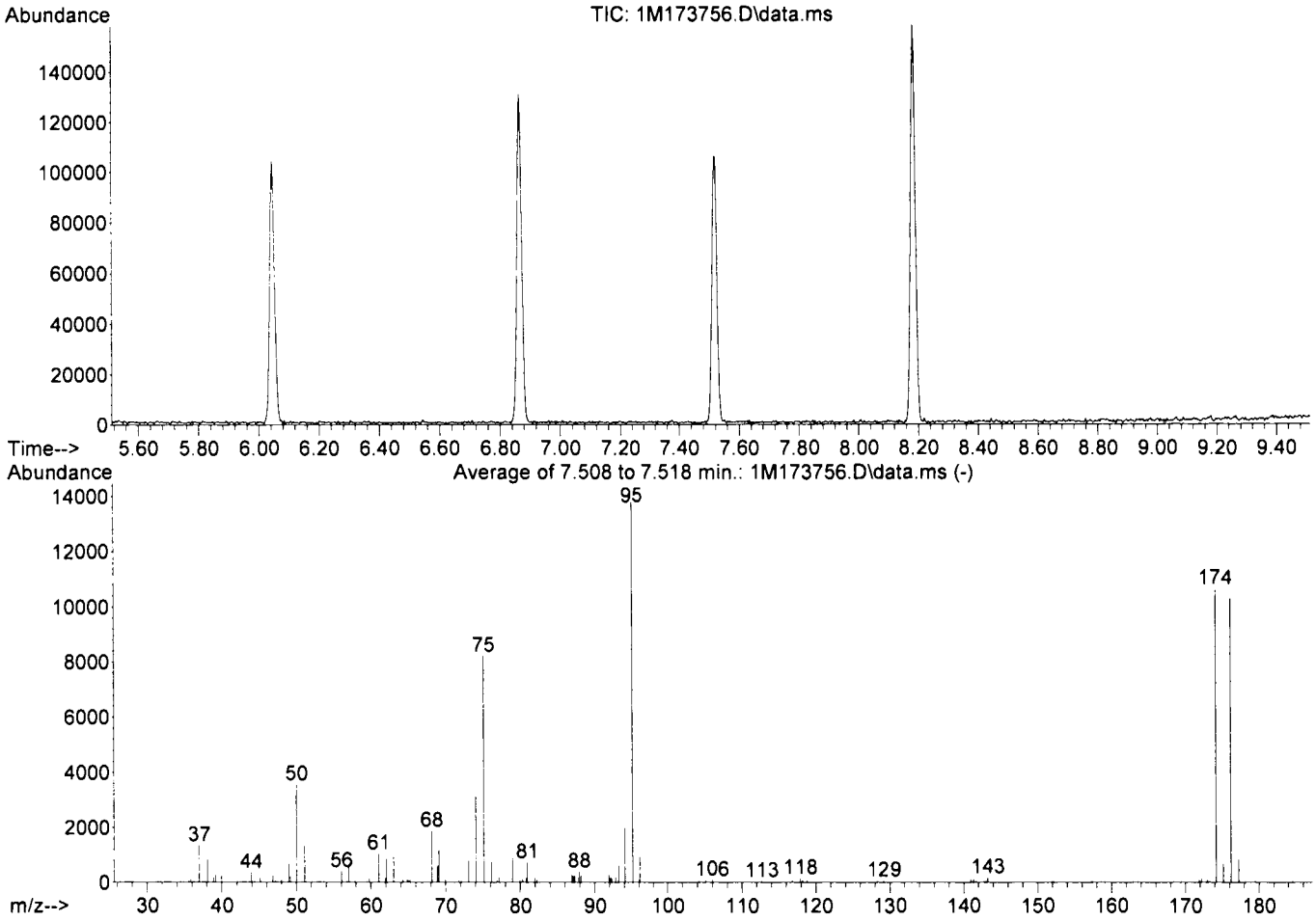
Data File	Sample Number	Analysis Date:
1M173758.D	CAL @ 0.5 PPB	05/18/23 22:30
1M173759.D	CAL @ 1 PPB	05/18/23 22:51
1M173760.D	CAL @ 2 PPB	05/18/23 23:12
1M173761.D	CAL @ 5 PPB	05/18/23 23:33
1M173762.D	CAL @ 20 PPB	05/18/23 23:54
1M173763.D	CAL @ 50 PPB	05/19/23 00:15
1M173765.D	CAL @ 100 PPB	05/19/23 00:56
1M173767.D	CAL @ 250 PPB	05/19/23 01:38
1M173770.D	CAL @ 500 PPB	05/19/23 02:40
1M173775.D	ICV	05/19/23 04:25
1M173780.D	DAILY BLANK	05/19/23 06:09
1M173781.D	MDL @ 1 PPB	05/19/23 06:30
1M173782.D	MDL @ 1 PPB	05/19/23 06:51
1M173783.D	MDL @ 1 PPB	05/19/23 07:12
1M173784.D	MDL @ 1 PPB	05/19/23 07:33

CLPBFB

Data Path : G:\GcMsData\2023\GCMS_1\Data\05-18-23\
Data File : 1M173756.D
Acq On : 18 May 2023 21:54
Operator : WP
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 12 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Title : @GCMS_1,ug,624,8260
Last Update : Fri May 19 17:41:39 2023



Spectrum Information: Average of 7.508 to 7.518 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.9	3564	PASS
75	95	30	60	59.6	8214	PASS
95	95	100	100	100.0	13787	PASS
96	95	5	9	6.9	947	PASS
173	174	0.00	2	0.9	93	PASS
174	95	50	100	77.1	10629	PASS
175	174	5	9	6.4	677	PASS
176	174	95	101	96.8	10289	PASS
177	176	5	9	8.1	829	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 1
Data File: 1M174814.D
Analysis Date: 06/13/23 21:29
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.499 to 7.534 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	16.0	2734	PASS
75	95	30	60	47.6	8125	PASS
95	95	100	100	100.0	17067	PASS
96	95	5	9	7.7	1312	PASS
173	174	0.00	2	1.2	172	PASS
174	95	50	100	86.7	14799	PASS
175	174	5	9	5.2	772	PASS
176	174	95	101	97.1	14367	PASS
177	176	5	9	6.9	990	PASS

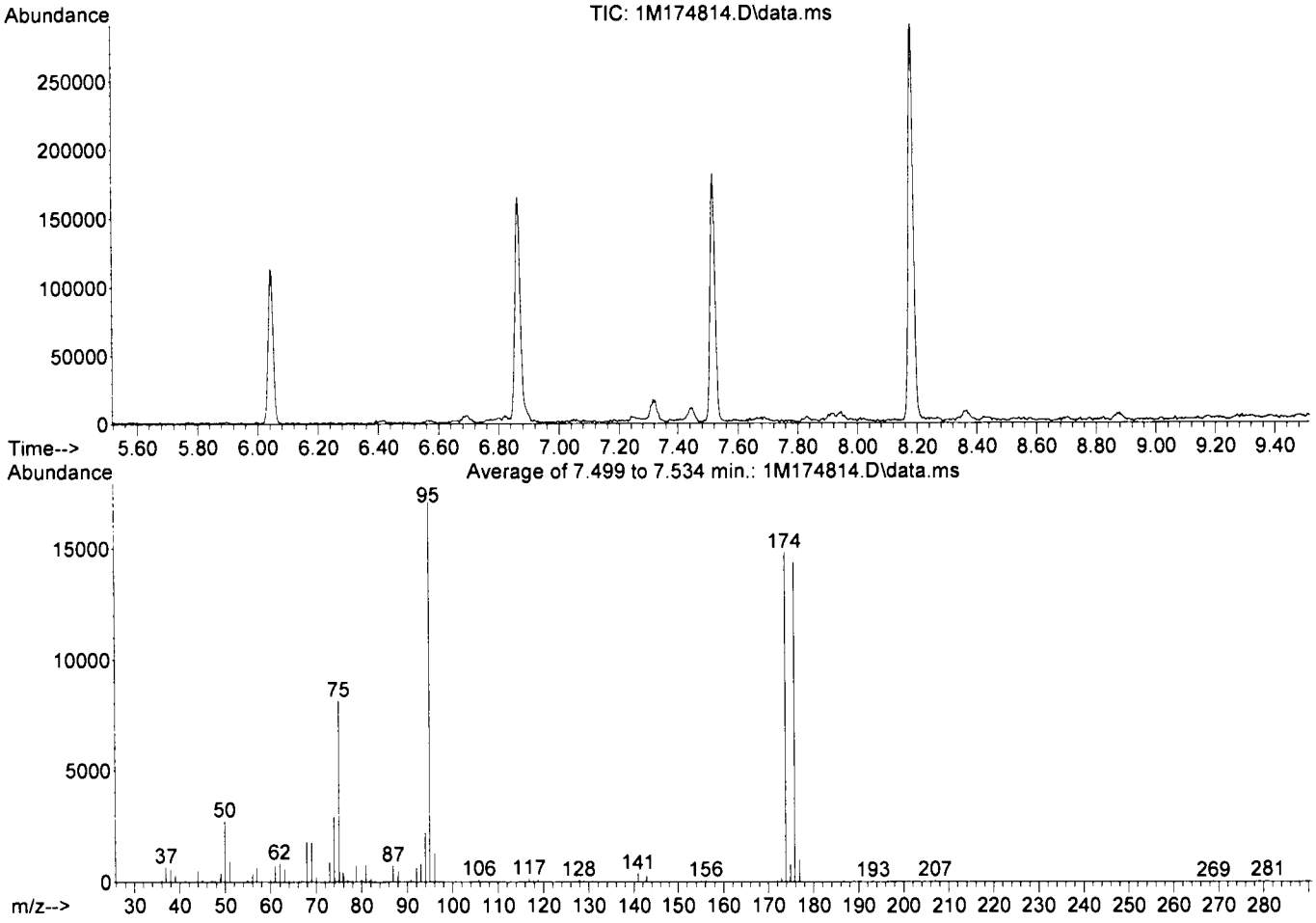
Data File	Sample Number	Analysis Date:
1M174815.D	CAL @ 50 PPB	06/13/23 21:45
1M174816.D	50 PPB	06/13/23 22:06
1M174817.D	BLK	06/13/23 22:27
1M174820.D	BLK	06/13/23 23:30
1M174821.D	DAILY BLANK	06/13/23 23:51
1M174822.D	AD38516-017	06/14/23 00:11
1M174823.D	AD38530-016	06/14/23 00:32
1M174824.D	MBS109403	06/14/23 00:53
1M174825.D	AD38487-003(MS)	06/14/23 01:14
1M174826.D	AD38487-003(MSD	06/14/23 01:35
1M174827.D	MBS109404	06/14/23 01:56
1M174828.D	AD38487-003	06/14/23 02:17
1M174829.D	AD38524-001	06/14/23 02:38
1M174830.D	AD38524-003	06/14/23 02:59
1M174831.D	AD38556-002	06/14/23 03:20
1M174832.D	AD38556-004	06/14/23 03:41
1M174833.D	AD38556-006	06/14/23 04:01
1M174834.D	AD38530-020	06/14/23 04:22
1M174835.D	AD38529-004	06/14/23 04:43
1M174836.D	AD38537-002	06/14/23 05:04
1M174837.D	AD38537-003	06/14/23 05:25
1M174838.D	AD38537-004	06/14/23 05:46
1M174839.D	AD38537-006	06/14/23 06:07
1M174840.D	AD38537-007	06/14/23 06:28
1M174841.D	AD38537-008	06/14/23 06:49
1M174842.D	AD38554-010	06/14/23 07:10
1M174843.D	AD38554-013	06/14/23 07:31
1M174844.D	AD38537-001	06/14/23 07:52
1M174845.D	AD38537-005	06/14/23 08:13
1M174846.D	AD38529-002	06/14/23 08:34

CLPBFB

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174814.D
Acq On : 13 Jun 2023 21:29
Operator : WP
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 41 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2023\GCMS_8\MethodQt\8M_A0505.M
Title : @GCMS_8,ug,624,8260
Last Update : Mon May 08 19:44:57 2023



Spectrum Information: Average of 7.499 to 7.534 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.0	2734	PASS
75	95	30	60	47.6	8125	PASS
95	95	100	100	100.0	17067	PASS
96	95	5	9	7.7	1312	PASS
173	174	0.00	2	1.2	172	PASS
174	95	50	100	86.7	14799	PASS
175	174	5	9	5.2	772	PASS
176	174	95	101	97.1	14367	PASS
177	176	5	9	6.9	990	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 1
Data File: 1M174849.D
Analysis Date: 06/14/23 09:47
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.515 to 7.528 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	17.0	59130	PASS
75	95	30	60	52.1	180877	PASS
95	95	100	100	100.0	346880	PASS
96	95	5	9	6.7	23258	PASS
173	174	0.00	2	1.2	3503	PASS
174	95	50	100	83.3	288781	PASS
175	174	5	9	7.5	21701	PASS
176	174	95	101	96.7	279386	PASS
177	176	5	9	6.7	18677	PASS

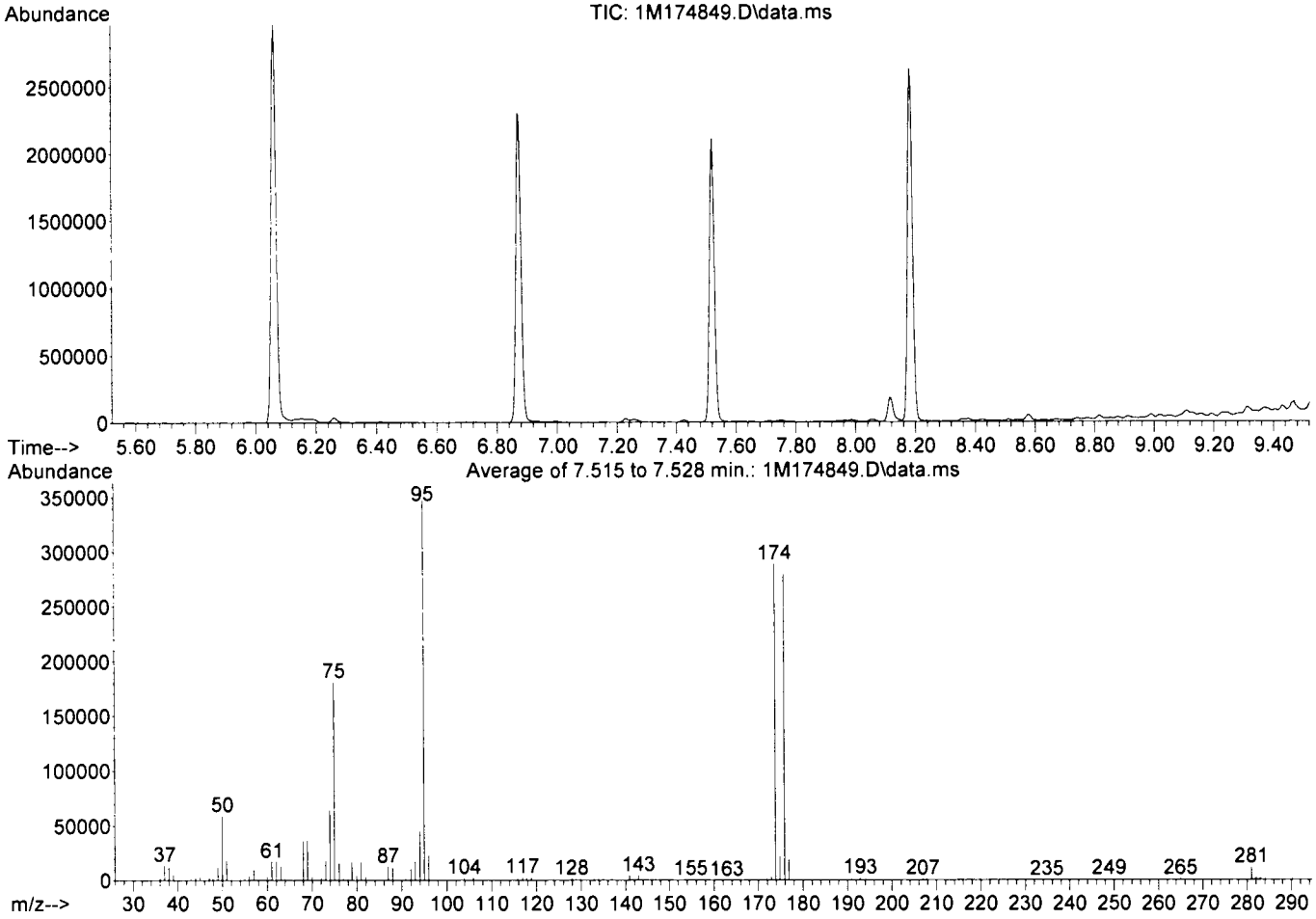
Data File	Sample Number	Analysis Date:
1M174851.D	CAL @ 50 PPB	06/14/23 10:29
1M174853.D	BLK	06/14/23 11:11
1M174854.D	BLK	06/14/23 11:32
1M174855.D	BLK	06/14/23 11:53
1M174856.D	DAILY BLANK	06/14/23 12:14
1M174857.D	AD38550-001	06/14/23 12:35
1M174858.D	AD38551-004(5X)	06/14/23 12:56
1M174859.D	MBS109413	06/14/23 13:17
1M174860.D	AD38501-004(MS)	06/14/23 13:38
1M174861.D	AD38501-004(MSD	06/14/23 13:59
1M174862.D	AD38501-004	06/14/23 14:20
1M174863.D	BLK	06/14/23 14:41
1M174864.D	BLK	06/14/23 15:02
1M174865.D	AD38516-008	06/14/23 15:23
1M174866.D	AD38537-001	06/14/23 15:43
1M174867.D	AD38517-001	06/14/23 16:04
1M174868.D	AD38538-001	06/14/23 16:25
1M174869.D	AD38538-003	06/14/23 16:46
1M174870.D	AD38554-001	06/14/23 17:07
1M174871.D	AD38554-004	06/14/23 17:28
1M174872.D	AD38554-007	06/14/23 17:49
1M174873.D	AD38556-008	06/14/23 18:10
1M174874.D	AD38556-010	06/14/23 18:31
1M174875.D	AD38556-012	06/14/23 18:51
1M174876.D	AD38556-014	06/14/23 19:12
1M174877.D	AD38556-016	06/14/23 19:33
1M174878.D	AD38556-018	06/14/23 19:54
1M174879.D	AD38556-020	06/14/23 20:15
1M174880.D	AD38556-022	06/14/23 20:36
1M174881.D	AD38556-024	06/14/23 20:57
1M174882.D	AD38556-026	06/14/23 21:18

CLPBFB

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-14-23\
Data File : 1M174849.D
Acq On : 14 Jun 2023 09:47
Operator : sg
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Title : @GCMS_1,ug,624,8260
Last Update : Fri May 19 17:41:39 2023



Spectrum Information: Average of 7.515 to 7.528 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.0	59130	PASS
75	95	30	60	52.1	180877	PASS
95	95	100	100	100.0	346880	PASS
96	95	5	9	6.7	23258	PASS
173	174	0.00	2	1.2	3503	PASS
174	95	50	100	83.3	288781	PASS
175	174	5	9	7.5	21701	PASS
176	174	95	101	96.7	279386	PASS
177	176	5	9	6.7	18677	PASS

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 1M174821.D
Analysis Date: 06/13/23 23:51
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5g
Final Vol: NA
Dilution: 1.00
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	56-23-5	Carbon Tetrachloride	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	U	75-00-3	Chloroethane	0.0020	U
79-00-5	1,1,2-Trichloroethane	0.0020	U	67-66-3	Chloroform	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	74-87-3	Chloromethane	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	156-59-2	cis-1,2-Dichloroethene	0.0020	U
87-61-6	1,2,3-Trichlorobenzene	0.0020	U	10061-01-5	cis-1,3-Dichloropropene	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	U	110-82-7	Cyclohexane	0.0020	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
106-93-4	1,2-Dibromoethane	0.00065	U	75-71-8	Dichlorodifluoromethane	0.0020	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	100-41-4	Ethylbenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.0020	U	98-82-8	Isopropylbenzene	0.0010	U
78-87-5	1,2-Dichloropropane	0.0020	U	79601-23-1	m&p-Xylenes	0.0015	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	79-20-9	Methyl Acetate	0.0020	U
106-46-7	1,4-Dichlorobenzene	0.0020	U	108-87-2	Methylcyclohexane	0.0020	U
123-91-1	1,4-Dioxane	0.10	U	75-09-2	Methylene Chloride	0.0020	U
78-93-3	2-Butanone	0.0020	U	1634-04-4	Methyl-t-butyl ether	0.0010	U
591-78-6	2-Hexanone	0.0020	U	95-47-6	o-Xylene	0.0010	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	100-42-5	Styrene	0.0020	U
67-64-1	Acetone	0.010	U	127-18-4	Tetrachloroethene	0.0020	U
71-43-2	Benzene	0.0010	U	108-88-3	Toluene	0.0010	U
74-97-5	Bromochloromethane	0.0020	U	156-60-5	trans-1,2-Dichloroethene	0.0020	U
75-27-4	Bromodichloromethane	0.0020	U	10061-02-6	trans-1,3-Dichloropropene	0.0020	U
75-25-2	Bromoform	0.0020	U	79-01-6	Trichloroethene	0.0020	U
74-83-9	Bromomethane	0.0020	U	75-69-4	Trichlorofluoromethane	0.0020	U
75-15-0	Carbon Disulfide	0.0020	U	75-01-4	Vinyl Chloride	0.0020	U

Worksheet #: 696057

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1e

ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: DAILY BLANK
Client Id:
Data File: 1M174821.D
Analysis Date: 06/13/23 23:51
Date Rec/Extracted:

Matrix: Soil
Initial Vol: 5g
Final Vol: NA
Dilution: 1.00
Solids: 100
Method: EPA 8260D

Units: mg/Kg

	Cas #	Compound	RT	Conc
1		No Unknown Compounds Detected	0.00	0J

Worksheet #: 696057

Total Tentatively Identified Concentration 0

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

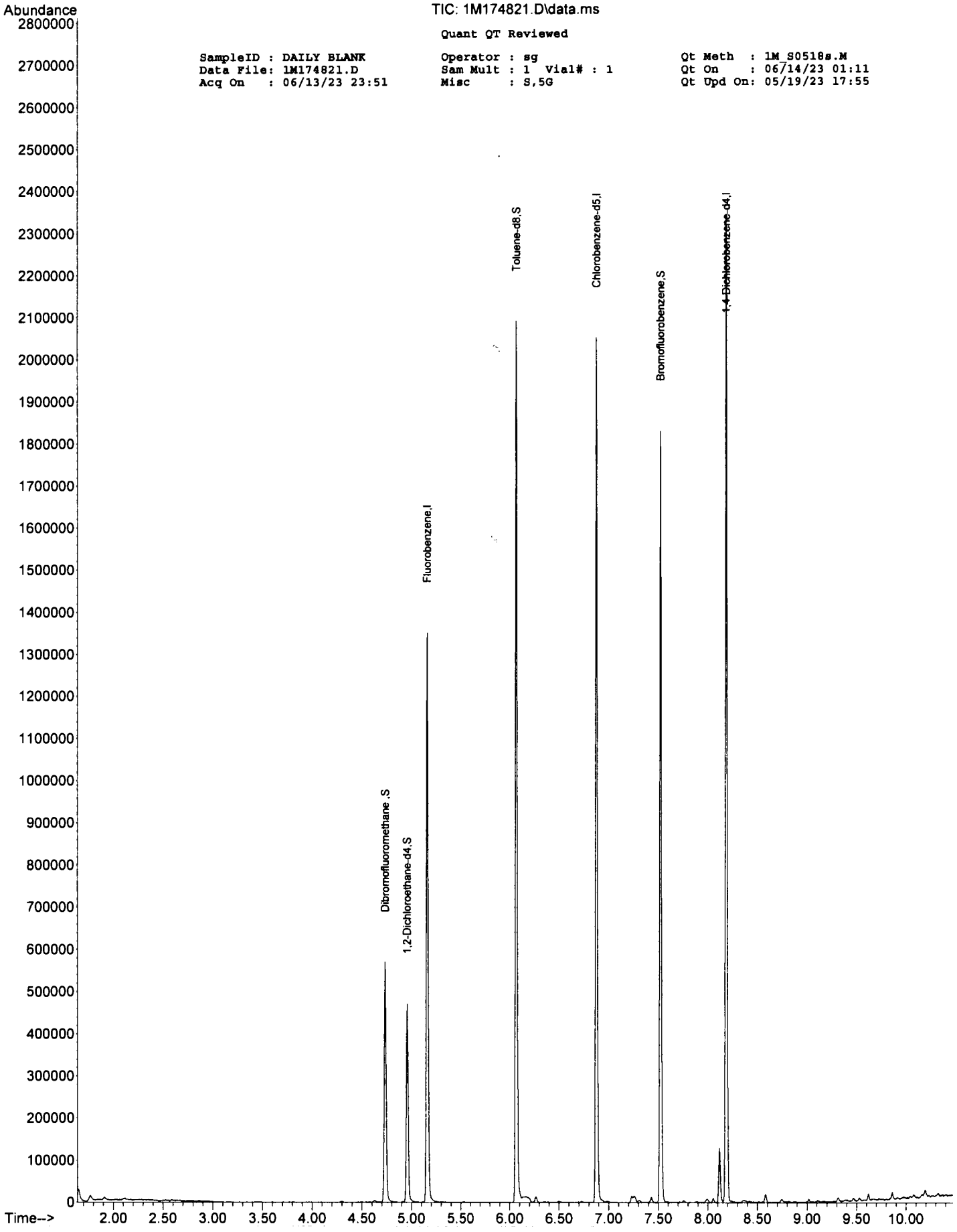
Quantitation Report (QT Reviewed)

SampleID : DAILY BLANK Operator : sg Qt Meth : 1M_S0518s.M
Data File: 1M174821.D Sam Mult : 1 Vial# : 1 Qt On : 06/14/23 01:11
Acq On : 06/13/23 23:51 Misc : S,5G Qt Upd On: 05/19/23 17:55

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.161	96	798409	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.878	117	774586	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.187	152	432042	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.737	111	226405	31.61	ug/l	0.00
Spiked Amount 30.000			Recovery = 105.37%			
39) 1,2-Dichloroethane-d4	4.958	67	111748	27.70	ug/l	0.00
Spiked Amount 30.000			Recovery = 92.33%			
66) Toluene-d8	6.068	98	922644	31.42	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.73%			
76) Bromofluorobenzene	7.524	174	330430	32.27	ug/l	0.00
Spiked Amount 30.000			Recovery = 107.57%			
Target Compounds						Qvalue
No Library Search Compounds Found						

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 1M174821.D\data.ms
Quant QT Reviewed
SampleID : DAILY BLANK
Data File: 1M174821.D
Acq On : 06/13/23 23:51
Operator : sg
Sam Mult : 1 Vial# : 1
Misc : S,5G
Qt Meth : 1M_S0518s.M
Qt On : 06/14/23 01:11
Qt Upd On: 05/19/23 17:55
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

LSC Area Percent Report

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174821.D
Acq On : 13 Jun 2023 23:51
Operator : sg
Sample : DAILY BLANK
Misc : S,5G
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Title : @GCMS_1,ug,624,8260

Signal : TIC: 1M174821.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.737	951	964	987	rBV	570784	779140	29.26%	6.085%
2	4.958	1023	1033	1050	rBV	471268	608319	22.85%	4.751%
3	5.161	1084	1096	1113	rBV	1352902	1690099	63.47%	13.200%
4	6.068	1368	1378	1395	rBV	2091936	2443531	91.77%	19.085%
5	6.878	1619	1630	1650	rBV	2052753	2381857	89.45%	18.603%
6	7.524	1818	1831	1845	rBV	1831433	2085710	78.33%	16.290%
7	8.119	2007	2016	2027	rBV2	129916	152088	5.71%	1.188%
8	8.187	2027	2037	2050	rVV	2341261	2662646	100.00%	20.796%

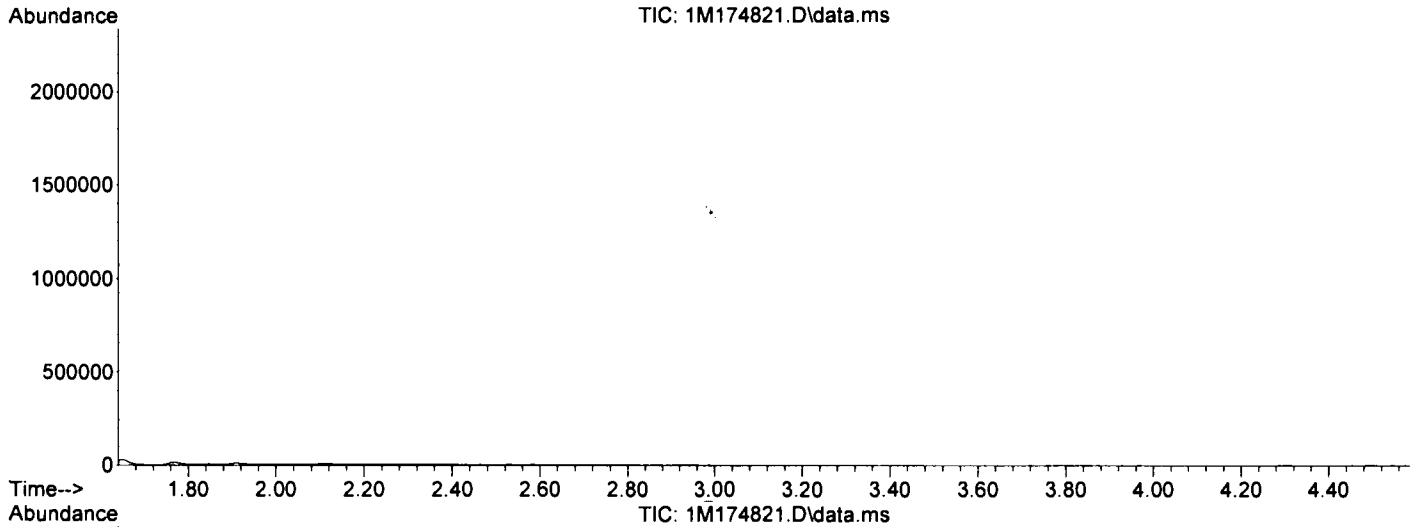
Sum of corrected areas: 12803390

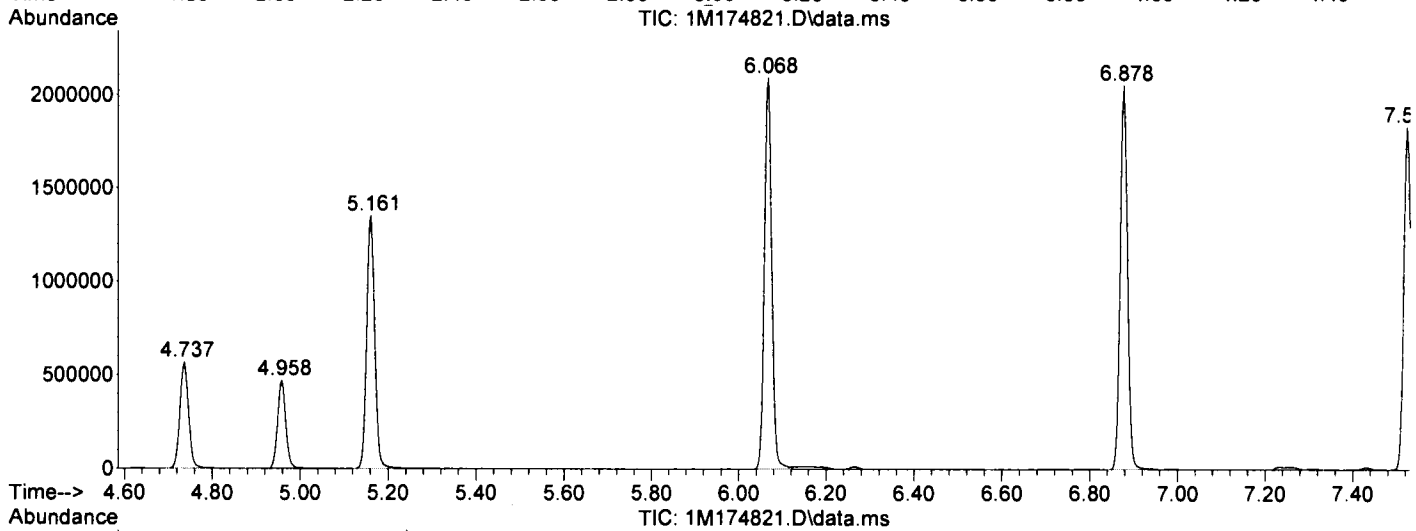
LSC Report - Integrated Chromatogram

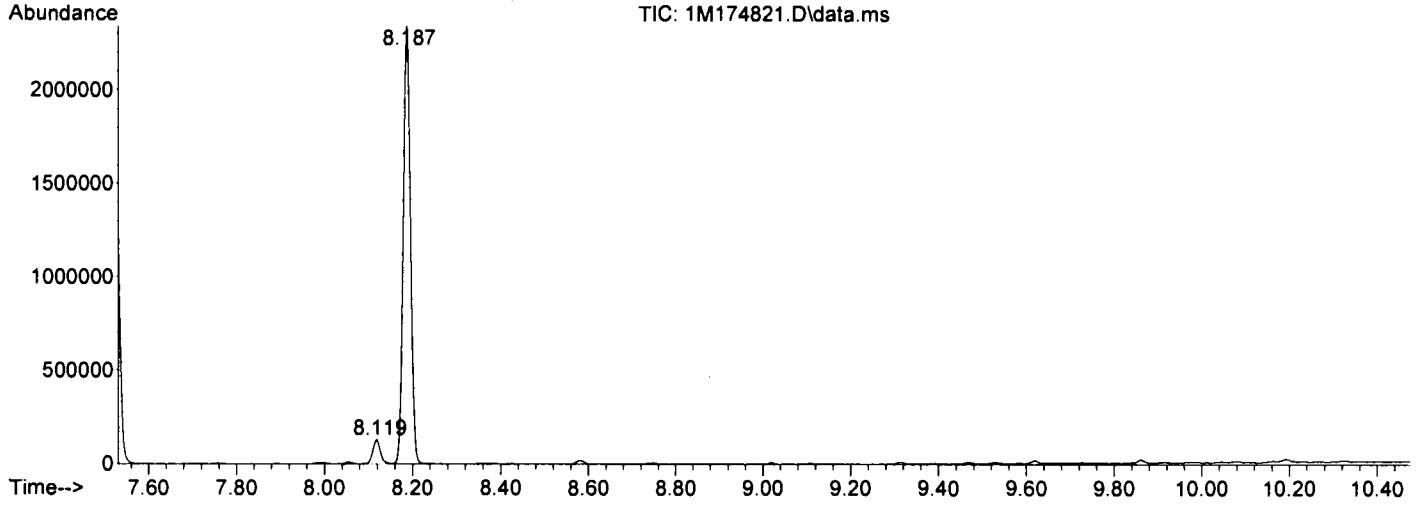
Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174821.D
Acq On : 13 Jun 2023 23:51
Operator : sg
Sample : DAILY BLANK
Misc : S,5G
ALS Vial : 1 Sample Multiplier: 1

Quant Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Quant Title : @GCMS_1,ug,624,8260

TIC Library : G:\GCMSDATA\WILEY138.L
TIC Integration Parameters: LSCINT.P







Tentatively Identified Compound (LSC) summary

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Data File : 1M174821.D
Acq On : 13 Jun 2023 23:51
Operator : sg
Sample : DAILY BLANK
Misc : S,5G
ALS Vial : 1 Sample Multiplier: 1

Quant Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Quant Title : @GCMS_1,ug,624,8260

TIC Library : G:\GCMSDATA\WILEY138.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	# ExpRT	ActRt	Resp	Conc

No Library Search Compounds Detected
****

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 1M174856.D
Analysis Date: 06/14/23 12:14
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5g
Final Vol: NA
Dilution: 1.00
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	56-23-5	Carbon Tetrachloride	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	U	75-00-3	Chloroethane	0.0020	U
79-00-5	1,1,2-Trichloroethane	0.0020	U	67-66-3	Chloroform	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	74-87-3	Chloromethane	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	156-59-2	cis-1,2-Dichloroethene	0.0020	U
87-61-6	1,2,3-Trichlorobenzene	0.0020	U	10061-01-5	cis-1,3-Dichloropropene	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	U	110-82-7	Cyclohexane	0.0020	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
106-93-4	1,2-Dibromoethane	0.00065	U	75-71-8	Dichlorodifluoromethane	0.0020	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	100-41-4	Ethylbenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.0020	U	98-82-8	Isopropylbenzene	0.0010	U
78-87-5	1,2-Dichloropropane	0.0020	U	79601-23-1	m&p-Xylenes	0.0015	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	79-20-9	Methyl Acetate	0.0020	U
106-46-7	1,4-Dichlorobenzene	0.0020	U	108-87-2	Methylcyclohexane	0.0020	U
123-91-1	1,4-Dioxane	0.10	U	75-09-2	Methylene Chloride	0.0020	U
78-93-3	2-Butanone	0.0020	U	1634-04-4	Methyl-t-butyl ether	0.0010	U
591-78-6	2-Hexanone	0.0020	U	95-47-6	o-Xylene	0.0010	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	100-42-5	Styrene	0.0020	U
67-64-1	Acetone	0.010	U	127-18-4	Tetrachloroethene	0.0020	U
71-43-2	Benzene	0.0010	U	108-88-3	Toluene	0.0010	U
74-97-5	Bromochloromethane	0.0020	U	156-60-5	trans-1,2-Dichloroethene	0.0020	U
75-27-4	Bromodichloromethane	0.0020	U	10061-02-6	trans-1,3-Dichloropropene	0.0020	U
75-25-2	Bromoform	0.0020	U	79-01-6	Trichloroethene	0.0020	U
74-83-9	Bromomethane	0.0020	U	75-69-4	Trichlorofluoromethane	0.0020	U
75-15-0	Carbon Disulfide	0.0020	U	75-01-4	Vinyl Chloride	0.0020	U

Worksheet #: 696057

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1e

ORGANICS VOLATILE REPORT
Tentatively Identified Compounds

Sample Number: DAILY BLANK
Client Id:
Data File: 1M174856.D
Analysis Date: 06/14/23 12:14
Date Rec/Extracted:

Matrix: Soil
Initial Vol: 5g
Final Vol: NA
Dilution: 1.00
Solids: 100
Method: EPA 8260D

Units: mg/Kg

	Cas #	Compound	RT	Conc
1		No Unknown Compounds Detected	0.00	0J

Worksheet #: 696057

Total Tentatively Identified Concentration 0

A - Indicates an aldol condensate.
J - Indicates an estimated value.
B - Indicates the analyte was found in the blank as well as in the sample.
Y - Indicates the analyte was found in the blank at <10% of the concentration of the sample.
<10% - Indicates the analyte was found in the blank at < 10% of nearest Internal Standard

Quantitation Report (QT Reviewed)

SampleID : DAILY BLANK Operator : sg Qt Meth : 1M_S0518s.M
Data File: 1M174856.D Sam Mult : 1 Vial# : 9 Qt On : 06/14/23 12:26
Acq On : 06/14/23 12:14 Misc : S,5G Qt Upd On: 05/19/23 17:55

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-14-23\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.161	96	840057	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.878	117	939309	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.187	152	458898	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.737	111	238184	31.60	ug/l	0.00
Spiked Amount 30.000			Recovery = 105.33%			
39) 1,2-Dichloroethane-d4	4.955	67	119672	28.20	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.00%			
66) Toluene-d8	6.068	98	955391	26.83	ug/l	0.00
Spiked Amount 30.000			Recovery = 89.43%			
76) Bromofluorobenzene	7.524	174	348122	32.01	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.70%			

Target Compounds Qvalue

No Library Search Compounds Found

(#) = qualifier out of range (m) = manual integration (+) = signals summed

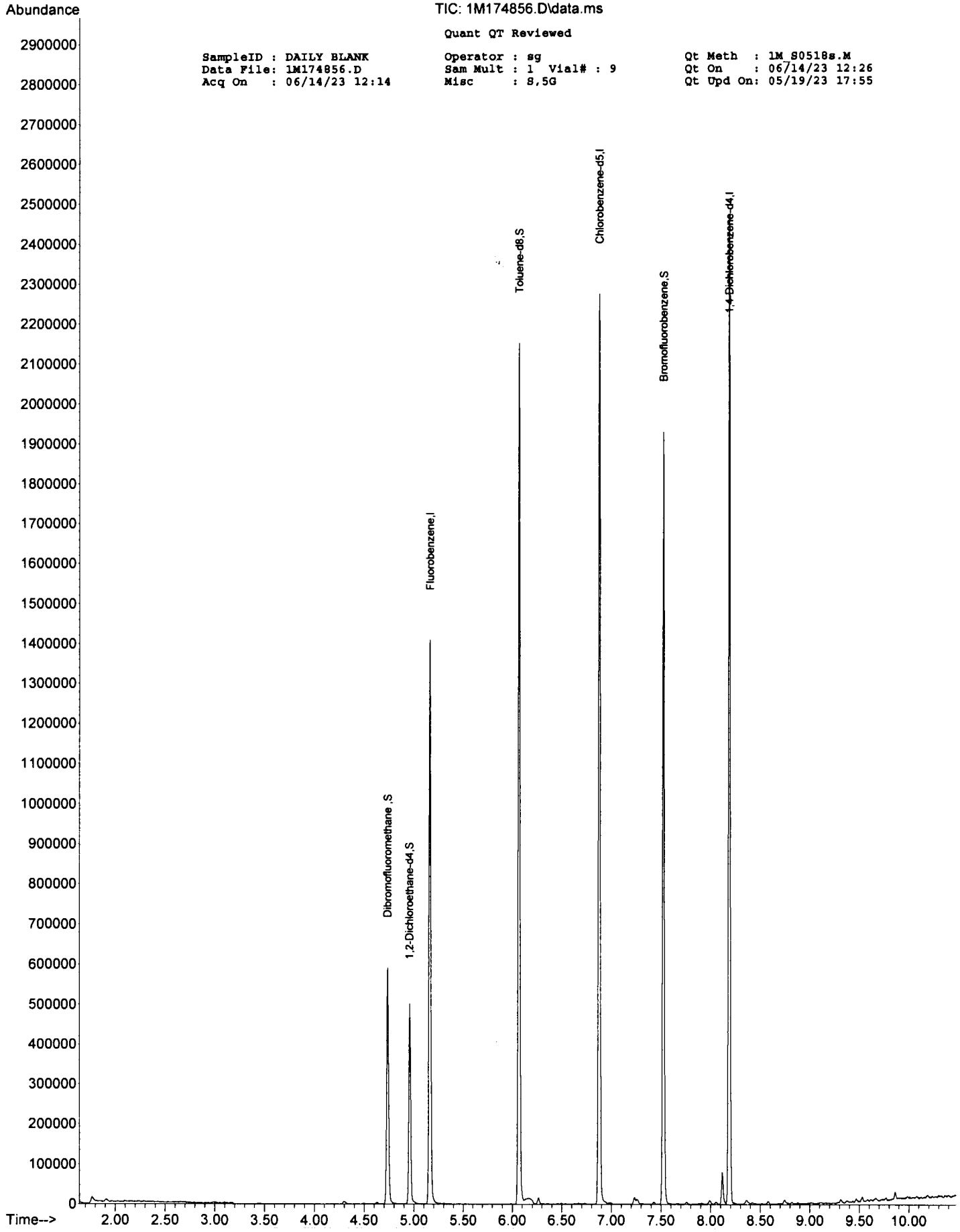
TIC: 1M174856.D\data.ms

Quant QT Reviewed

SampleID : DAILY BLANK
Data File: 1M174856.D
Acq On : 06/14/23 12:14

Operator : sg
Sam Mult : 1 Vial# : 9
Misc : S,5G

Qt Meth : 1M_S0518s.M
Qt On : 06/14/23 12:26
Qt Upd On: 05/19/23 17:55



LSC Area Percent Report

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-14-23\
Data File : 1M174856.D
Acq On : 14 Jun 2023 12:14
Operator : sg
Sample : DAILY BLANK
Misc : S,5G
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Title : @GCMS_1,ug,624,8260

Signal : TIC: 1M174856.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.737	951	964	984	rBV	592147	814519	28.97%	5.986%
2	4.958	1022	1033	1052	rBV	500956	648484	23.06%	4.765%
3	5.161	1085	1096	1109	rBV	1409880	1764118	62.74%	12.964%
4	6.068	1367	1378	1393	rBV	2152576	2522860	89.72%	18.539%
5	6.878	1619	1630	1648	rBV2	2275391	2772504	98.60%	20.374%
6	7.524	1821	1831	1848	rBV	1929952	2176578	77.40%	15.995%
7	8.116	2008	2015	2027	rBV2	79668	97127	3.45%	0.714%
8	8.187	2027	2037	2051	rBV	2470755	2811988	100.00%	20.664%

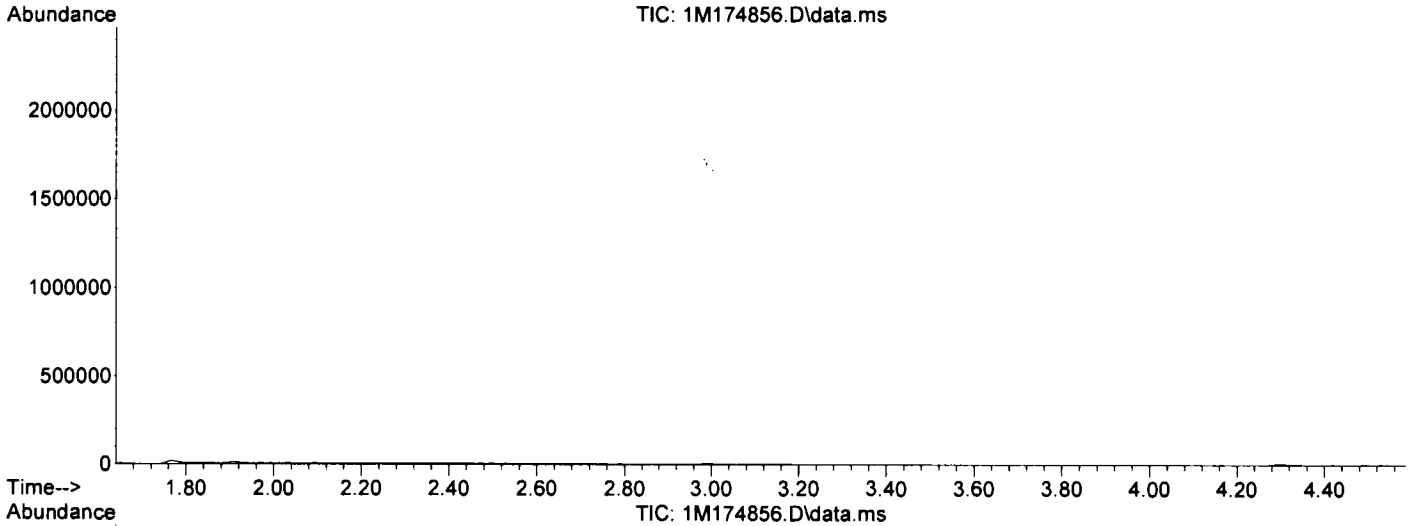
Sum of corrected areas: 13608178

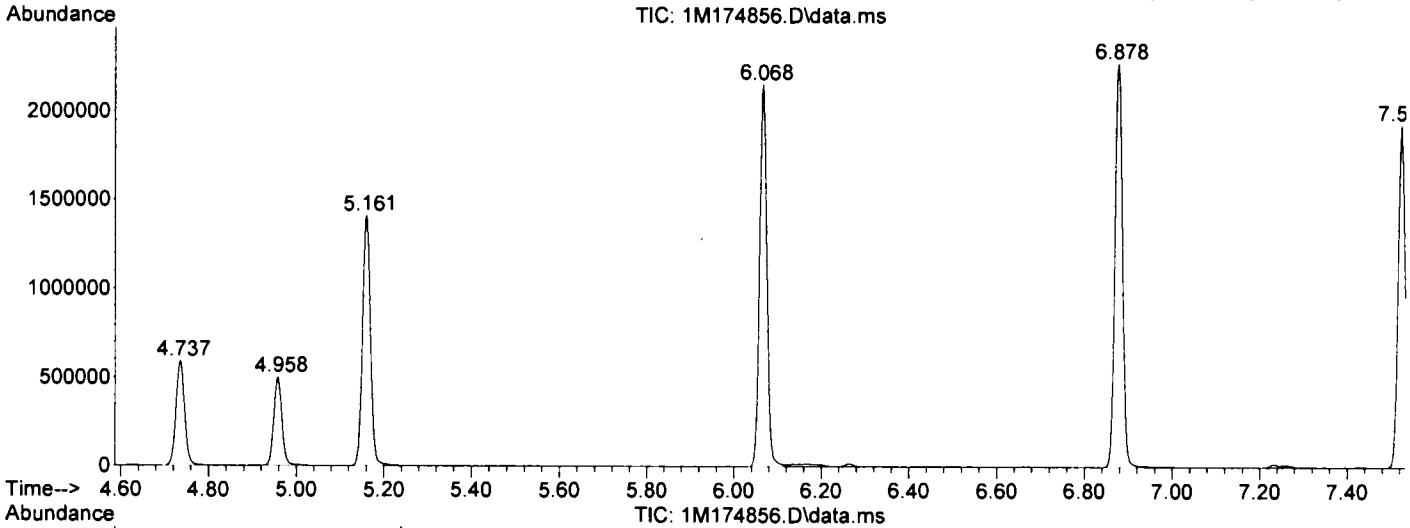
LSC Report - Integrated Chromatogram

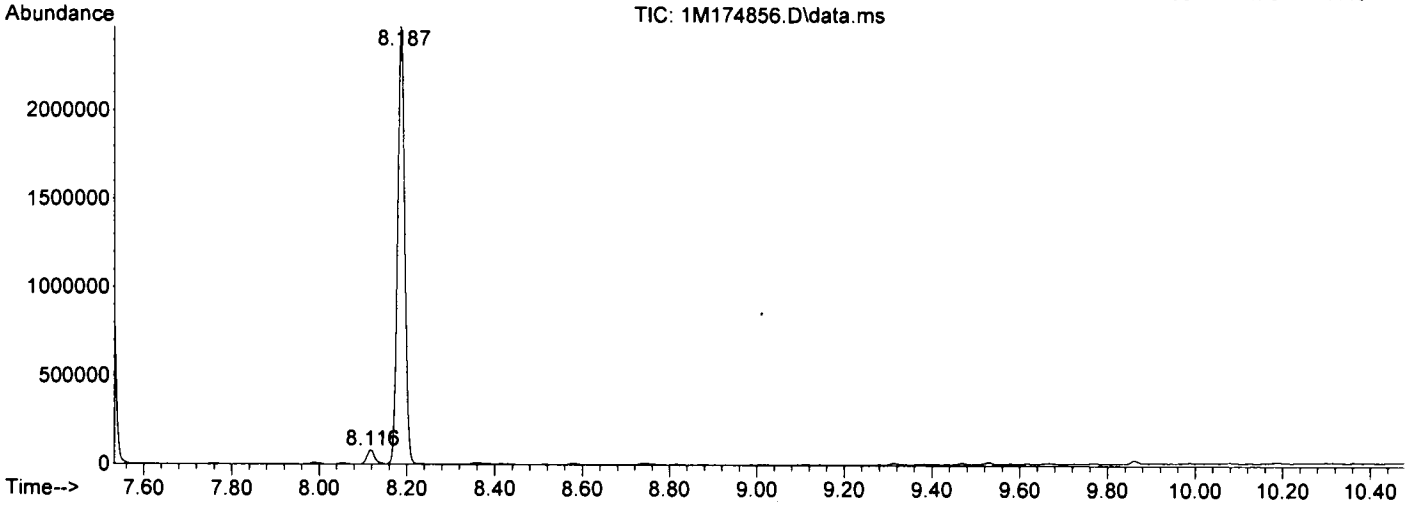
Data Path : G:\GcMsData\2023\GCMS_1\Data\06-14-23\
Data File : 1M174856.D
Acq On : 14 Jun 2023 12:14
Operator : sg
Sample : DAILY BLANK
Misc : S,5G
ALS Vial : 9 Sample Multiplier: 1

Quant Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Quant Title : @GCMS_1,ug,624,8260

TIC Library : G:\GCMSDATA\WILEY138.L
TIC Integration Parameters: LSCINT.P







Tentatively Identified Compound (LSC) summary

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-14-23\
Data File : 1M174856.D
Acq On : 14 Jun 2023 12:14
Operator : sg
Sample : DAILY BLANK
Misc : S,5G
ALS Vial : 9 Sample Multiplier: 1

Quant Method : G:\GcMsData\2023\GCMS_1\MethodQt\1M_S0518s.M
Quant Title : @GCMS_1,ug,624,8260

TIC Library : G:\GCMSDATA\WILEY138.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard ExpRT	Internal Standard ActRt	Internal Standard Resp	Internal Standard Conc

No Library Search Compounds Detected
****

Form3
Recovery Data Laboratory Limits
QC Batch:MBS109403

	Data File	Sample ID:	Analysis Date
Spike or Dup:	1M174824.D	MBS109403	6/14/2023 12:53:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	35.0514	0	50	70	10	168
Dichlorodifluoromethane	1	35.9838	0	50	72	10	150
Chloromethane	1	36.9793	0	50	74	12	150
Bromomethane	1	53.4463	0	50	107	23	136
Vinyl Chloride	1	48.6444	0	50	97	21	153
Chloroethane	1	52.5826	0	50	105	33	147
Trichlorofluoromethane	1	72.394	0	50	145	29	156
Ethyl ether	1	38.4841	0	50	77	10	141
Furan	1	38.1456	0	50	76	22	152
1,1,2-Trichloro-1,2,2-trifluoroethane	1	88.3018	0	50	177*	32	149
Methylene Chloride	1	56.8338	0	50	114	35	147
Acrolein	1	192.0439	0	200	96	10	149
Acrylonitrile	1	35.8144	0	50	72	20	130
Iodomethane	1	187.9075	0	50	376*	10	152
Acetone	1	187.3789	0	200	94	22	222
Carbon Disulfide	1	58.0546	0	50	116	18	135
t-Butyl Alcohol	1	196.8442	0	200	98	38	178
n-Hexane	1	53.9905	0	50	108	11	154
Di-isopropyl-ether	1	41.2736	0	50	83	38	150
1,1-Dichloroethene	1	60.163	0	50	120	31	165
Methyl Acetate	1	36.0598	0	50	72	10	237
Methyl-t-butyl ether	1	56.1501	0	50	112	40	151
1,1-Dichloroethane	1	50.3263	0	50	101	41	149
trans-1,2-Dichloroethene	1	69.3857	0	50	139	33	150
Ethyl-t-butyl ether	1	45.3671	0	50	91	22	184
cis-1,2-Dichloroethene	1	48.1245	0	50	96	33	146
Bromochloromethane	1	39.3491	0	50	79	38	143
2,2-Dichloropropane	1	66.9192	0	50	134	38	161
Ethyl acetate	1	38.2905	0	50	77	10	130
1,4-Dioxane	1	2008.078	0	2500	80	35	151
1,1-Dichloropropene	1	66.6835	0	50	133	34	149
Chloroform	1	58.8141	0	50	118	41	145
Cyclohexane	1	53.3718	0	50	107	25	148
1,2-Dichloroethane	1	43.9539	0	50	88	37	143
2-Butanone	1	35.7166	0	50	71	21	163
1,1,1-Trichloroethane	1	72.9092	0	50	146	38	149
Carbon Tetrachloride	1	78.4562	0	50	157*	33	150
Vinyl Acetate	1	41.2889	0	50	83	10	112
Bromodichloromethane	1	43.6581	0	50	87	36	146
Methylcyclohexane	1	54.7072	0	50	109	15	147
Dibromomethane	1	48.2712	0	50	97	32	144
1,2-Dichloropropane	1	36.6913	0	50	73	40	144
Trichloroethene	1	51.5073	0	50	103	24	161
Benzene	1	60.992	0	50	122	38	146
tert-Amyl methyl ether	1	54.4532	0	50	109	10	240
Iso-propylacetate	1	37.4538	0	50	75	10	139
Methyl methacrylate	1	0	0	50	0*	10	224
Dibromochloromethane	1	43.1799	0	50	86	32	140
2-Chloroethylvinylether	1	0	0	50	0*	10	266
cis-1,3-Dichloropropene	1	42.2211	0	50	84	27	139
trans-1,3-Dichloropropene	1	42.0065	0	50	84	22	141
Ethyl methacrylate	1	30.6498	0	50	61	16	151
1,1,2-Trichloroethane	1	41.1968	0	50	82	32	138
1,2-Dibromoethane	1	41.4723	0	50	83	30	135
1,3-Dichloropropane	1	40.0068	0	50	80	36	136
4-Methyl-2-Pentanone	1	31.0614	0	50	62	23	137
2-Hexanone	1	30.5802	0	50	61	10	149
Tetrachloroethene	1	55.4601	0	50	111	24	140
Toluene	1	45.6877	0	50	91	31	139
1,1,1,2-Tetrachloroethane	1	45.1964	0	50	90	31	134
Chlorobenzene	1	46.6293	0	50	93	24	134

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS109403

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	29.5228	0	50	59	10	140
n-Amyl acetate	1	31.9289	0	50	64	10	138
Bromoform	**1**	**41.7044**	**0**	**50**	**83**	**21**	**137**
Ethylbenzene	**1**	**47.3307**	**0**	**50**	**95**	**29**	**137**
1,1,2,2-Tetrachloroethane	**1**	**36.5709**	**0**	**50**	**73**	**18**	**136**
Styrene	**1**	**49.2894**	**0**	**50**	**99**	**14**	**141**
m&p-Xylenes	**1**	**93.3463**	**0**	**100**	**93**	**18**	**152**
o-Xylene	**1**	**47.1125**	**0**	**50**	**94**	**21**	**146**
trans-1,4-Dichloro-2-butene	1	34.4146	0	50	69	11	139
1,3-Dichlorobenzene	**1**	**48.9921**	**0**	**50**	**98**	**10**	**134**
1,4-Dichlorobenzene	**1**	**47.9809**	**0**	**50**	**96**	**10**	**132**
1,2-Dichlorobenzene	**1**	**45.2935**	**0**	**50**	**91**	**10**	**129**
Isopropylbenzene	**1**	**51.4167**	**0**	**50**	**103**	**14**	**150**
Cyclohexanone	1	201.4563	0	250	81	10	344
Camphene	1	52.706	0	50	105	10	137
1,2,3-Trichloropropane	1	38.6825	0	50	77	20	133
2-Chlorotoluene	1	47.295	0	50	95	13	140
p-Ethyltoluene	1	50.5593	0	50	101	10	138
4-Chlorotoluene	1	47.1775	0	50	94	10	138
n-Propylbenzene	1	50.2558	0	50	101	10	145
Bromobenzene	1	38.2823	0	50	77	14	132
1,3,5-Trimethylbenzene	1	55.1101	0	50	110	12	146
Butyl methacrylate	1	33.9971	0	50	68	10	154
t-Butylbenzene	1	54.2455	0	50	108	10	142
1,2,4-Trimethylbenzene	1	52.1223	0	50	104	10	147
sec-Butylbenzene	1	59.0994	0	50	118	10	146
4-Isopropyltoluene	1	51.7165	0	50	103	10	128
n-Butylbenzene	1	56.3937	0	50	113	10	146
p-Diethylbenzene	1	56.6247	0	50	113	10	142
1,2,4,5-Tetramethylbenzene	1	42.4044	0	50	85	10	130
1,2-Dibromo-3-Chloropropane	**1**	**43.8686**	**0**	**50**	**88**	**16**	**126**
Camphor	1	484.9761	0	200	242*	20	150
Hexachlorobutadiene	1	51.4007	0	50	103	10	123
1,2,4-Trichlorobenzene	**1**	**49.462**	**0**	**50**	**99**	**10**	**128**
1,2,3-Trichlorobenzene	**1**	**45.6153**	**0**	**50**	**91**	**10**	**123**
Naphthalene	1	40.4426	0	50	81	10	140

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Quantitation Report (QT Reviewed)

SampleID : MBS
Data File: 1M174824.D
Acq On : 06/14/23 00:53

Operator : sg
Sam Mult : 1 Vial# : 4
Misc : S,5G

Qt Meth : 1M_S0518s.M
Qt On : 06/14/23 01:08
Qt Upd On: 05/19/23 17:55

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.161	96	799810	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.878	117	805540	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.190	152	531882	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.737	111	307504m	42.86	ug/l	0.00
Spiked Amount 30.000			Recovery = 142.87%			
39) 1,2-Dichloroethane-d4	4.958	67	148287	36.70	ug/l	0.00
Spiked Amount 30.000			Recovery = 122.33%			
66) Toluene-d8	6.068	98	929851	30.45	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.50%			
76) Bromofluorobenzene	7.524	174	385923	30.62	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.07%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.688	51	125298	35.0514	ug/l	90
6) Dichlorodifluoromethane	1.679	85	83485	35.9838	ug/l	93
7) Chloromethane	1.846	50	118869	36.9793	ug/l	99
8) Bromomethane	2.225	94	132999	53.4463	ug/l	99
9) Vinyl Chloride	1.933	62	163318	48.6444	ug/l	97
10) Chloroethane	2.306	64	120315	52.5826	ug/l	96
11) Trichlorofluoromethane	2.524	101	354306	72.3940	ug/l	96
12) Ethyl ether	2.753	59	131955	38.4841	ug/l	97
13) Furan	2.791	39	221480	38.1456	ug/l	86
14) 1,1,2-Trichloro-1,2,2-...	2.949	101	203102	88.3018	ug/l	91
15) Methylene Chloride	3.357	84	182561	56.8338	ug/l	92
16) Acrolein	2.865	56	123697	192.0439	ug/l	94
17) Acrylonitrile	3.560	53	43028	35.8144	ug/l	73
18) Iodomethane	3.097	142	292484	187.9075	ug/l	92
19) Acetone	2.991	43	191854	187.3789	ug/l	92
20) Carbon Disulfide	3.167	76	493282	58.0546	ug/l	100
21) t-Butyl Alcohol	3.434	59	82105	196.8442	ug/l	74
22) n-Hexane	3.830	57	179414	53.9905	ug/l	92
23) Di-isopropyl-ether	4.000	45	357016	41.2736	ug/l	88
24) 1,1-Dichloroethene	2.962	61	281505	60.1630	ug/l	89
25) Methyl Acetate	3.267	43	75001	36.0598	ug/l	100
26) Methyl-t-butyl ether	3.592	73	437525	56.1501	ug/l	93
27) 1,1-Dichloroethane	3.958	63	296096	50.3263	ug/l	96
28) trans-1,2-Dichloroethene	3.598	96	201802	69.3857	ug/l	79
29) Ethyl-t-butyl ether	4.293	59	441322	45.3671	ug/l	96
30) cis-1,2-Dichloroethene	4.418	61	290804	48.1245	ug/l	98
31) Bromochloromethane	4.585	49	113027	39.3491	ug/l	66
32) 2,2-Dichloropropane	4.421	77	301143	66.9192	ug/l	98
33) Ethyl acetate	4.450	43	125117	38.2905	ug/l	89
34) 1,4-Dioxane	5.579	88	79216	2008.0782	ug/l	90
35) 1,1-Dichloropropene	4.872	75	261033	66.6835	ug/l	95
36) Chloroform	4.630	83	361891	58.8141	ug/l	100
38) Cyclohexane	4.814	56	217856	53.3718	ug/l	94
40) 1,2-Dichloroethane	5.003	62	244182	43.9539	ug/l	97
41) 2-Butanone	4.418	43	46050	35.7166	ug/l	81
42) 1,1,1-Trichloroethane	4.772	97	355158	72.9092	ug/l	99
43) Carbon Tetrachloride	4.878	117	300989	78.4562	ug/l	99
44) Vinyl Acetate	3.984	43	405371	41.2889	ug/l	100
45) Bromodichloromethane	5.656	83	204571	43.6581	ug/l	99
46) Methylcyclohexane	5.502	83	223394	54.7072	ug/l	97
47) Dibromomethane	5.579	174	97430	48.2712	ug/l	98
48) 1,2-Dichloropropane	5.511	63	127832	36.6913	ug/l	92
49) Trichloroethene	5.376	130	155572	51.5073	ug/l	93
50) Benzene	5.003	78	724880	60.9920	ug/l	100
51) tert-Amyl methyl ether	5.052	73	444329	54.4532	ug/l	89
53) Iso-propylacetate	5.007	43	245220	37.4538	ug/l	81
55) Dibromochloromethane	6.550	129	149176	43.1799	ug/l	99
57) cis-1,3-Dichloropropene	5.907	75	224114	42.2211	ug/l	93
58) trans-1,3-Dichloropropene	6.209	75	210173	42.0065	ug/l	97
59) Ethyl methacrylate	6.238	41	95662	30.6498	ug/l	86
60) 1,1,2-Trichloroethane	6.318	97	126570	41.1968	ug/l	96
61) 1,2-Dibromoethane	6.630	107	131772	41.4723	ug/l	99
62) 1,3-Dichloropropane	6.415	76	212036	40.0068	ug/l	98
63) 4-Methyl-2-Pentanone	5.981	43	94483	31.0614	ug/l	88
64) 2-Hexanone	6.437	43	68862	30.5802	ug/l	91
65) Tetrachloroethene	6.418	164	128796	55.4601	ug/l	99
67) Toluene	6.106	92	381871	45.6877	ug/l	97
68) 1,1,1,2-Tetrachloroethane	6.929	133	138393	45.1964	ug/l	96
69) Chlorobenzene	6.894	112	421012	46.6293	ug/l	99

Quantitation Report (QT Reviewed)

SampleID : MBS
Data File: 1M174824.D
Acq On : 06/14/23 00:53

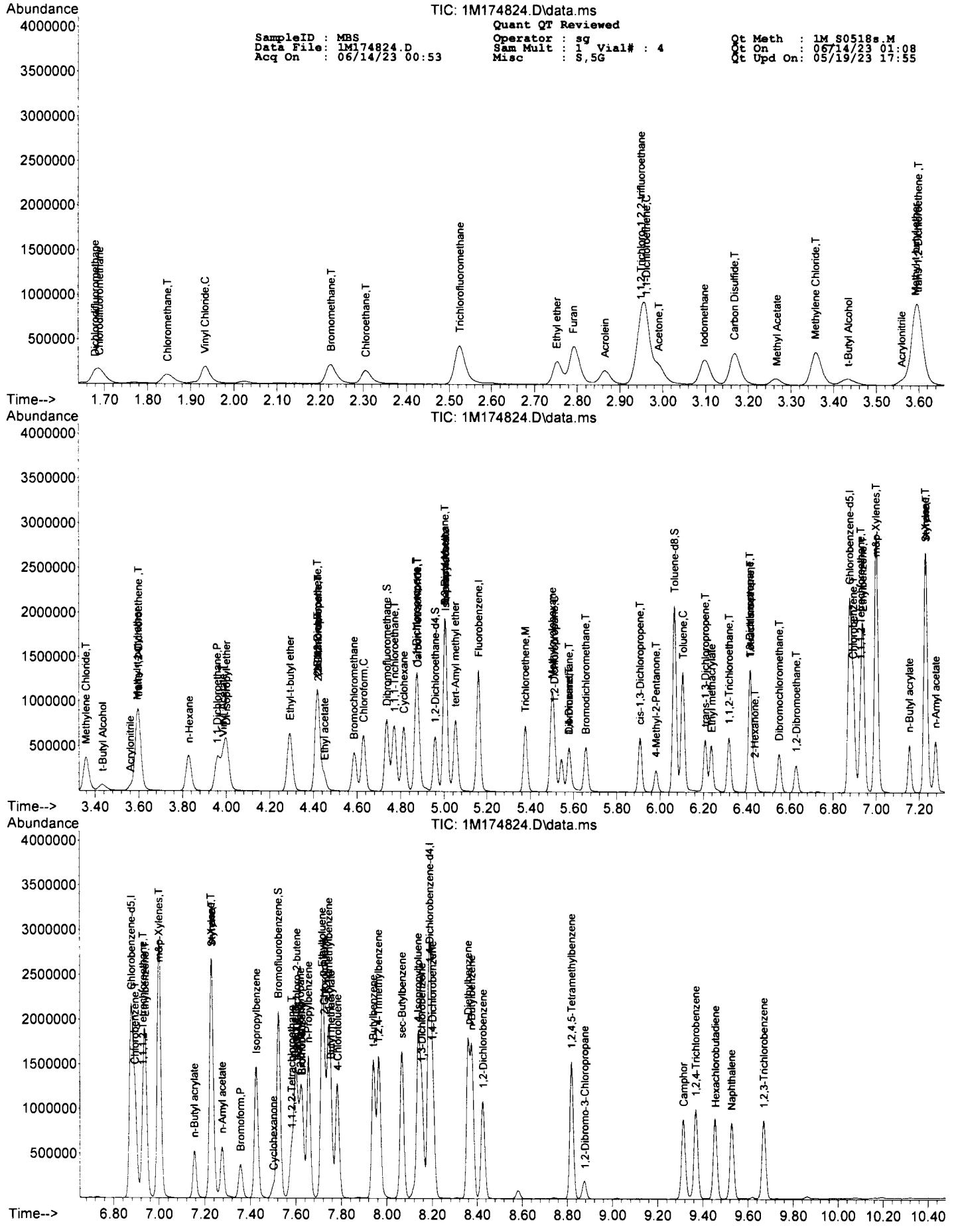
Operator : sg
Sam Mult : 1 Vial# : 4
Misc : S,5G

Qt Meth : 1M_S0518s.M
Qt On : 06/14/23 01:08
Qt Upd On: 05/19/23 17:55

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71)	n-Butyl acrylate	7.154	55	216471	29.5228	ug/l	97
72)	n-Amyl acetate	7.277	43	185589	31.9289	ug/l	100
73)	Bromoform	7.357	173	107432	41.7044	ug/l	99
74)	Ethylbenzene	6.939	106	204288	47.3307	ug/l	93
75)	1,1,2,2-Tetrachloroethane	7.582	83	169463	36.5709	ug/l	95
77)	Styrene	7.232	104	492575	49.2894	ug/l	96
78)	m&p-Xylenes	7.000	106	587579	93.3463	ug/l	96
79)	o-Xylene	7.228	106	290190	47.1125	ug/l	99
80)	trans-1,4-Dichloro-2-b...	7.605	53	74779	34.4146	ug/l	29
81)	1,3-Dichlorobenzene	8.154	146	355864	48.9921	ug/l	96
82)	1,4-Dichlorobenzene	8.203	146	356136	47.9809	ug/l	99
83)	1,2-Dichlorobenzene	8.428	146	326827	45.2935	ug/l	98
84)	Isopropylbenzene	7.428	105	698550	51.4167	ug/l	98
85)	Cyclohexanone	7.502	55	41228	201.4563	ug/l	96
86)	Camphene	7.598	93	282799	52.7060	ug/l	99
87)	1,2,3-Trichloropropane	7.621	75	213352	38.6825	ug/l	66
88)	2-Chlorotoluene	7.727	91	476359	47.2950	ug/l	96
89)	p-Ethyltoluene	7.717	105	772761	50.5593	ug/l	100
90)	4-Chlorotoluene	7.785	91	476526	47.1775	ug/l	97
91)	n-Propylbenzene	7.656	91	881286	50.2558	ug/l	95
92)	Bromobenzene	7.627	77	412997	38.2823	ug/l	77
93)	1,3,5-Trimethylbenzene	7.746	105	642095	55.1101	ug/l	98
94)	Butyl methacrylate	7.756	41	155047m	33.9971	ug/l	
95)	t-Butylbenzene	7.942	119	620935	54.2455	ug/l	98
96)	1,2,4-Trimethylbenzene	7.965	105	649726	52.1223	ug/l	99
97)	sec-Butylbenzene	8.068	105	834305	59.0994	ug/l	97
98)	4-Isopropyltoluene	8.138	119	704559	51.7165	ug/l	99
99)	n-Butylbenzene	8.376	91	792544	56.3937	ug/l	89
100)	p-Diethylbenzene	8.360	119	412460	56.6247	ug/l	80
101)	1,2,4,5-Tetramethylben...	8.820	119	586266	42.4044	ug/l	98
102)	1,2-Dibromo-3-Chloropr...	8.878	157	39701	43.8686	ug/l	76
103)	Camphor	9.315	95	167454	484.9761	ug/l	92
104)	Hexachlorobutadiene	9.457	225	117399	51.4007	ug/l	99
105)	1,2,4-Trichlorobenzene	9.370	180	218432	49.4620	ug/l	98
106)	1,2,3-Trichlorobenzene	9.672	180	195945	45.6153	ug/l	99
107)	Naphthalene	9.527	128	491868	40.4426	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 1M174824.D\data.ms
Quant QT Reviewed
SampleID : MBS
Data File: 1M174824.D
Acq On : 06/14/23 00:53
Operator : sg
Sam Mult : 1 Vial# : 4
Misc : S,5G
Qt Meth : 1M_S0518s.M
Qt On : 06/14/23 01:08
Qt Upd On: 05/19/23 17:55
Chloromethane,T
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
Time-->

Abundance
TIC: 1M174824.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
n-Butyl acrylate
n-Amyl acetate
Time-->

Abundance
TIC: 1M174824.D\data.ms
Chlorobenzene-d5,I
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Form3
Recovery Data Laboratory Limits
QC Batch: MBS109403

	Data File	Sample ID:	Analysis Date
Spike or Dup:	1M174825.D	AD38487-003(MS)	6/14/2023 1:14:00 AM
Non Spike(If applicable):	1M174828.D	AD38487-003	6/14/2023 2:17:00 AM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	37.3773	0	50	75	10	168
Dichlorodifluoromethane	1	43.5615	0	50	87	10	150
Chloromethane	1	34.8911	0	50	70	12	150
Bromomethane	1	52.4046	0	50	105	23	136
Vinyl Chloride	1	49.1849	0	50	98	21	153
Chloroethane	1	51.9154	0	50	104	33	147
Trichlorofluoromethane	1	71.0221	0	50	142	29	156
Ethyl ether	1	36.6898	0	50	73	10	141
Furan	1	34.9561	0	50	70	22	152
1,1,2-Trichloro-1,2,2-trifluoroethane	1	73.7345	0	50	147	32	149
Methylene Chloride	1	35.8315	0	50	72	35	147
Acrolein	1	127.8767	0	200	64	10	149
Acrylonitrile	1	24.373	0	50	49	20	130
Iodomethane	1	105.4168	0	50	211*	10	152
Acetone	1	171.5117	13.3561	200	79	22	222
Carbon Disulfide	1	36.4339	0	50	73	18	135
t-Butyl Alcohol	1	135.433	0	200	68	38	178
n-Hexane	1	39.6204	0	50	79	11	154
Di-isopropyl-ether	1	30.0753	0	50	60	38	150
1,1-Dichloroethene	1	51.4446	0	50	103	31	165
Methyl Acetate	1	24.85	0	50	50	10	237
Methyl-t-butyl ether	1	37.8252	0	50	76	40	151
1,1-Dichloroethane	1	35.3314	0	50	71	41	149
trans-1,2-Dichloroethene	1	44.6342	0	50	89	33	150
Ethyl-t-butyl ether	1	32.6171	0	50	65	22	184
cis-1,2-Dichloroethene	1	35.0262	0	50	70	33	146
Bromochloromethane	1	30.0359	0	50	60	38	143
2,2-Dichloropropane	1	47.6737	0	50	95	38	161
Ethyl acetate	1	26.6417	0	50	53	10	130
1,4-Dioxane	1	2130.611	0	2500	85	35	151
1,1-Dichloropropene	1	49.2347	0	50	98	34	149
Chloroform	1	41.3586	0	50	83	41	145
Cyclohexane	1	40.0569	0	50	80	25	148
1,2-Dichloroethane	1	34.2117	0	50	68	37	143
2-Butanone	1	30.3805	0	50	61	21	163
1,1,1-Trichloroethane	1	50.8131	0	50	102	38	149
Carbon Tetrachloride	1	54.16	0	50	108	33	150
Vinyl Acetate	1	26.1673	0	50	52	10	112
Bromodichloromethane	1	41.8848	0	50	84	36	146
Methylcyclohexane	1	54.7341	0	50	109	15	147
Dibromomethane	1	45.7141	0	50	91	32	142
1,2-Dichloropropane	1	35.1741	0	50	70	40	144
Trichloroethene	1	49.8492	0	50	100	24	161
Benzene	1	43.3515	0	50	87	38	146
tert-Amyl methyl ether	1	39.9684	0	50	80	10	240
Iso-propylacetate	1	28.8425	0	50	58	10	139
Methyl methacrylate	1	26.3547	0	50	53	10	224
Dibromochloromethane	1	40.5058	0	50	81	32	140
2-Chloroethylvinylether	1	0	0	50	0*	10	266
cis-1,3-Dichloropropene	1	39.7869	0	50	80	27	139
trans-1,3-Dichloropropene	1	39.6625	0	50	79	22	141
Ethyl methacrylate	1	28.7496	0	50	57	16	151
1,1,2-Trichloroethane	1	38.2119	0	50	76	32	138
1,2-Dibromoethane	1	38.5175	0	50	77	30	135
1,3-Dichloropropane	1	37.2461	0	50	74	36	136
4-Methyl-2-Pentanone	1	29.0599	0	50	58	23	137
2-Hexanone	1	28.6479	0	50	57	10	149
Tetrachloroethene	1	53.7354	0	50	107	24	140
Toluene	1	43.8986	0	50	88	31	139
1,1,1,2-Tetrachloroethane	1	43.3998	0	50	87	31	134
Chlorobenzene	1	44.3639	0	50	89	24	134

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS109403

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	31.3926	0	50	63	10	140
n-Amyl acetate	1	28.4363	0	50	57	10	138
Bromoform	**1**	**42.0568**	**0**	**50**	**84**	**21**	**137**
Ethylbenzene	**1**	**48.042**	**0**	**50**	**96**	**29**	**137**
1,1,2,2-Tetrachloroethane	**1**	**36.9221**	**0**	**50**	**74**	**18**	**136**
Styrene	**1**	**50.4766**	**0**	**50**	**101**	**14**	**141**
m&p-Xylenes	**1**	**94.4008**	**0**	**100**	**94**	**18**	**152**
o-Xylene	**1**	**48.545**	**0**	**50**	**97**	**21**	**146**
trans-1,4-Dichloro-2-butene	1	33.2171	0	50	66	11	139
1,3-Dichlorobenzene	**1**	**47.6038**	**0**	**50**	**95**	**10**	**134**
1,4-Dichlorobenzene	**1**	**46.0476**	**0**	**50**	**92**	**10**	**132**
1,2-Dichlorobenzene	**1**	**43.7628**	**0**	**50**	**88**	**10**	**129**
Isopropylbenzene	**1**	**51.6206**	**0**	**50**	**103**	**14**	**150**
Cyclohexanone	1	254.5324	0	250	102	10	344
Camphene	1	52.4406	0	50	105	10	137
1,2,3-Trichloropropane	1	37.5094	0	50	75	20	133
2-Chlorotoluene	1	46.79	0	50	94	13	140
p-Ethyltoluene	1	50.121	0	50	100	10	138
4-Chlorotoluene	1	45.7474	0	50	91	10	138
n-Propylbenzene	1	49.645	0	50	99	10	145
Bromobenzene	1	37.3144	0	50	75	14	132
1,3,5-Trimethylbenzene	1	53.3337	0	50	107	12	146
Butyl methacrylate	1	29.8436	0	50	60	10	154
t-Butylbenzene	1	52.7206	0	50	105	10	142
1,2,4-Trimethylbenzene	1	50.4834	0	50	101	10	147
sec-Butylbenzene	1	57.1072	0	50	114	10	146
4-Isopropyltoluene	1	50.9497	0	50	102	10	128
n-Butylbenzene	1	54.1522	0	50	108	10	146
p-Diethylbenzene	1	54.8506	0	50	110	10	142
1,2,4,5-Tetramethylbenzene	1	40.7014	0	50	81	10	130
1,2-Dibromo-3-Chloropropane	**1**	**43.0033**	**0**	**50**	**86**	**16**	**126**
~~Camphor~~	~~1~~	~~528.0064~~	~~0~~				
Hexachlorobutadiene	1	59.5705	0	50	119	10	123
1,2,4-Trichlorobenzene	**1**	**47.7375**	**0**	**50**	**95**	**10**	**128**
1,2,3-Trichlorobenzene	**1**	**61.0483**	**0**	**50**	**122**	**10**	**123**
Naphthalene	1	49.1537	2.3441	50	94	10	140

MD 5012Y

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS109403

	Data File	Sample ID:	Analysis Date
Spike or Dup:	1M174826.D	AD38487-003(MSD)	6/14/2023 1:35:00 AM
Non Spike(If applicable):	1M174828.D	AD38487-003	6/14/2023 2:17:00 AM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	39.5218	0	50	79	10	168
Dichlorodifluoromethane	1	48.7856	0	50	98	10	150
Chloromethane	1	39.8867	0	50	80	12	150
Bromomethane	1	60.9529	0	50	122	23	136
Vinyl Chloride	1	54.5729	0	50	109	21	153
Chloroethane	1	57.8587	0	50	116	33	147
Trichlorofluoromethane	1	76.0806	0	50	152	29	156
Ethyl ether	1	43.3414	0	50	87	10	141
Furan	1	39.6297	0	50	79	22	152
1,1,2-Trichloro-1,2,2-trifluoroethane	1	49.1174	0	50	98	32	149
Methylene Chloride	1	42.0471	0	50	84	35	147
Acrolein	1	153.7755	0	200	77	10	149
Acrylonitrile	1	28.7421	0	50	57	20	130
Iodomethane	1	116.9535	0	50	234*	10	152
Acetone	1	142.6463	13.3561	200	65	22	222
Carbon Disulfide	1	40.3924	0	50	81	18	135
t-Butyl Alcohol	1	162.0147	0	200	81	38	178
n-Hexane	1	42.8269	0	50	86	11	154
Di-isopropyl-ether	1	34.4656	0	50	69	38	150
1,1-Dichloroethene	1	38.0908	0	50	76	31	165
Methyl Acetate	1	29.2041	0	50	58	10	237
Methyl-t-butyl ether	1	43.5251	0	50	87	40	151
1,1-Dichloroethane	1	39.6998	0	50	79	41	149
trans-1,2-Dichloroethene	1	48.9579	0	50	98	33	150
Ethyl-t-butyl ether	1	37.1756	0	50	74	22	184
cis-1,2-Dichloroethene	1	39.3563	0	50	79	33	146
Bromochloromethane	1	33.481	0	50	67	38	143
2,2-Dichloropropane	1	52.0977	0	50	104	38	161
Ethyl acetate	1	31.3206	0	50	63	10	130
1,4-Dioxane	1	2477.66	0	2500	99	35	151
1,1-Dichloropropene	1	52.1585	0	50	104	34	149
Chloroform	1	46.2876	0	50	93	41	145
Cyclohexane	1	40.9254	0	50	82	25	148
1,2-Dichloroethane	1	39.3009	0	50	79	37	143
2-Butanone	1	29.9119	0	50	60	21	163
1,1,1-Trichloroethane	1	54.2662	0	50	109	38	149
Carbon Tetrachloride	1	57.2865	0	50	115	33	150
Vinyl Acetate	1	28.5806	0	50	57	10	112
Bromodichloromethane	1	47.4611	0	50	95	36	146
Methylcyclohexane	1	57.2223	0	50	114	15	147
Dibromomethane	1	52.2205	0	50	104	32	144
1,2-Dichloropropane	1	39.3759	0	50	79	40	144
Trichloroethene	1	53.7103	0	50	107	24	161
Benzene	1	48.2311	0	50	96	38	146
tert-Amyl methyl ether	1	45.7559	0	50	92	10	240
Iso-propylacetate	1	32.7737	0	50	66	10	139
Methyl methacrylate	1	29.5292	0	50	59	10	224
Dibromochloromethane	1	46.2858	0	50	93	32	140
2-Chloroethylvinylether	1	2.1467	0	50	4.3*	10	266
cis-1,3-Dichloropropene	1	45.1789	0	50	90	27	139
trans-1,3-Dichloropropene	1	45.4011	0	50	91	22	141
Ethyl methacrylate	1	31.9971	0	50	64	16	151
1,1,2-Trichloroethane	1	44.9289	0	50	90	32	138
1,2-Dibromoethane	1	44.079	0	50	88	30	135
1,3-Dichloropropane	1	42.9688	0	50	86	36	136
4-Methyl-2-Pentanone	1	32.2447	0	50	64	23	137
2-Hexanone	1	32.3574	0	50	65	10	149
Tetrachloroethene	1	57.9467	0	50	116	24	140
Toluene	1	48.09	0	50	96	31	139
1,1,1,2-Tetrachloroethane	1	48.7363	0	50	97	31	134
Chlorobenzene	1	48.3006	0	50	97	24	134

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS109403

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	32.2753	0	50	65	10	140
n-Amyl acetate	1	29.8026	0	50	60	10	138
Bromoform	**1**	**46.2492**	**0**	**50**	**92**	**21**	**137**
Ethylbenzene	**1**	**52.0755**	**0**	**50**	**104**	**29**	**137**
1,1,2,2-Tetrachloroethane	**1**	**40.0575**	**0**	**50**	**80**	**18**	**136**
Styrene	**1**	**53.2291**	**0**	**50**	**106**	**14**	**141**
m&p-Xylenes	**1**	**100.4684**	**0**	**100**	**100**	**18**	**152**
o-Xylene	**1**	**50.4543**	**0**	**50**	**101**	**21**	**146**
trans-1,4-Dichloro-2-butene	1	35.3188	0	50	71	11	139
1,3-Dichlorobenzene	**1**	**51.1262**	**0**	**50**	**102**	**10**	**134**
1,4-Dichlorobenzene	**1**	**50.2372**	**0**	**50**	**100**	**10**	**132**
1,2-Dichlorobenzene	**1**	**47.2299**	**0**	**50**	**94**	**10**	**129**
Isopropylbenzene	**1**	**55.2714**	**0**	**50**	**111**	**14**	**150**
Cyclohexanone	1	280.7364	0	250	112	10	344
Camphene	1	55.2366	0	50	110	10	137
1,2,3-Trichloropropane	1	40.8263	0	50	82	20	133
2-Chlorotoluene	1	49.3562	0	50	99	13	140
p-Ethyltoluene	1	54.0211	0	50	108	10	138
4-Chlorotoluene	1	49.1806	0	50	98	10	138
n-Propylbenzene	1	53.0902	0	50	106	10	145
Bromobenzene	1	40.0349	0	50	80	14	132
1,3,5-Trimethylbenzene	1	56.9751	0	50	114	12	146
Butyl methacrylate	1	31.5349	0	50	63	10	154
t-Butylbenzene	1	56.2837	0	50	113	10	142
1,2,4-Trimethylbenzene	1	54.228	0	50	108	10	147
sec-Butylbenzene	1	61.4487	0	50	123	10	146
4-Isopropyltoluene	1	54.1658	0	50	108	10	128
n-Butylbenzene	1	58.5059	0	50	117	10	146
p-Diethylbenzene	1	59.4623	0	50	119	10	142
1,2,4,5-Tetramethylbenzene	1	51.266	0	50	103	10	130
1,2-Dibromo-3-Chloropropane	**1**	**63.3624**	**0**	**50**	**127***	**16**	**126**
Camphor	1	696.9247	0				
Hexachlorobutadiene	1	71.6795	0	50	143*	10	123
1,2,4-Trichlorobenzene	**1**	**65.4561**	**0**	**50**	**131***	**10**	**128**
1,2,3-Trichlorobenzene	**1**	**72.3766**	**0**	**50**	**145***	**10**	**123**
Naphthalene	1	58.9608	2.3441	50	113	10	140

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS109403

	Data File	Sample ID:	Analysis Date
Spike or Dup:	1M174826.D	AD38487-003(MSD)	6/14/2023 1:35:00 AM
Duplicate(If applicable):	1M174825.D	AD38487-003(MS)	6/14/2023 1:14:00 AM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	39.5218	37.3773	5.6	56
Dichlorodifluoromethane	1	48.7856	43.5615	11	60
Chloromethane	1	39.8867	34.8911	13	49
Bromomethane	1	60.9529	52.4046	15	38
Vinyl Chloride	1	54.5729	49.1849	10	47
Chloroethane	1	57.8587	51.9154	11	39
Trichlorofluoromethane	1	76.0806	71.0221	6.9	43
Ethyl ether	1	43.3414	36.6898	17	106
Furan	1	39.6297	34.9561	13	56
1,1,2-Trichloro-1,2,2-trifluoroethane	1	49.1174	73.7345	40	45
Methylene Chloride	1	42.0471	35.8315	16	35
Acrolein	1	153.7755	127.8767	18	129
Acrylonitrile	1	28.7421	24.373	16	40
Iodomethane	1	116.9535	105.4168	10	46
Acetone	1	142.6463	171.5117	18	41
Carbon Disulfide	1	40.3924	36.4339	10	44
t-Butyl Alcohol	1	162.0147	135.433	18	38
n-Hexane	1	42.8269	39.6204	7.8	52
Di-isopropyl-ether	1	34.4656	30.0753	14	36
1,1-Dichloroethene	1	38.0908	51.4446	30	42
Methyl Acetate	1	29.2041	24.85	16	43
Methyl-t-butyl ether	1	43.5251	37.8252	14	34
1,1-Dichloroethane	1	39.6998	35.3314	12	37
trans-1,2-Dichloroethene	1	48.9579	44.6342	9.2	40
Ethyl-t-butyl ether	1	37.1756	32.6171	13	55
cis-1,2-Dichloroethene	1	39.3563	35.0262	12	36
Bromochloromethane	1	33.481	30.0359	11	29
2,2-Dichloropropane	1	52.0977	47.6737	8.9	38
Ethyl acetate	1	31.3206	26.6417	16	106
1,4-Dioxane	1	2477.66	2130.611	15	38
1,1-Dichloropropene	1	52.1585	49.2347	5.8	39
Chloroform	1	46.2876	41.3586	11	31
Cyclohexane	1	40.9254	40.0569	2.1	44
1,2-Dichloroethane	1	39.3009	34.2117	14	29
2-Butanone	1	29.9119	30.3805	1.6	46
1,1,1-Trichloroethane	1	54.2662	50.8131	6.6	36
Carbon Tetrachloride	1	57.2865	54.16	5.6	37
Vinyl Acetate	1	28.5806	26.1673	8.8	44
Bromodichloromethane	1	47.4611	41.8848	12	32
Methylcyclohexane	1	57.2223	54.7341	4.4	45
Dibromomethane	1	52.2205	45.7141	13	30
1,2-Dichloropropane	1	39.3759	35.1741	11	31
Trichloroethene	1	53.7103	49.8492	7.5	36
Benzene	1	48.2311	43.3515	11	33
tert-Amyl methyl ether	1	45.7559	39.9684	14	29
Iso-propylacetate	1	32.7737	28.8425	13	117
Methyl methacrylate	1	29.5292	26.3547	11	68
Dibromochloromethane	1	46.2858	40.5058	13	35
2-Chloroethylvinylether	1	2.1467	0	200*	167
cis-1,3-Dichloropropene	1	45.1789	39.7869	13	36
trans-1,3-Dichloropropene	1	45.4011	39.6625	13	37
Ethyl methacrylate	1	31.9971	28.7496	11	46
1,1,2-Trichloroethane	1	44.9289	38.2119	16	41
1,2-Dibromoethane	1	44.079	38.5175	13	34
1,3-Dichloropropane	1	42.9688	37.2461	14	33
4-Methyl-2-Pentanone	1	32.2447	29.0599	10	57
2-Hexanone	1	32.3574	28.6479	12	63
Tetrachloroethene	1	57.9467	53.7354	7.5	40
Toluene	1	48.09	43.8986	9.1	38
1,1,1,2-Tetrachloroethane	1	48.7363	43.3998	12	35
Chlorobenzene	1	48.3006	44.3639	8.5	38

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: MBS109403

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	32.2753	31.3926	2.8	134
n-Amyl acetate	1	29.8026	28.4363	4.7	166
Bromoform	**1**	**46.2492**	**42.0568**	**9.5**	**37**
Ethylbenzene	**1**	**52.0755**	**48.042**	**8.1**	**36**
1,1,2,2-Tetrachloroethane	**1**	**40.0575**	**36.9221**	**8.1**	**40**
Styrene	**1**	**53.2291**	**50.4766**	**5.3**	**45**
m&p-Xylenes	**1**	**100.4684**	**94.4008**	**6.2**	**44**
o-Xylene	**1**	**50.4543**	**48.545**	**3.9**	**43**
trans-1,4-Dichloro-2-butene	1	35.3188	33.2171	6.1	39
1,3-Dichlorobenzene	**1**	**51.1262**	**47.6038**	**7.1**	**46**
1,4-Dichlorobenzene	**1**	**50.2372**	**46.0476**	**8.7**	**47**
1,2-Dichlorobenzene	**1**	**47.2299**	**43.7628**	**7.6**	**47**
Isopropylbenzene	**1**	**55.2714**	**51.6206**	**6.8**	**46**
Cyclohexanone	1	280.7364	254.5324	9.8	63
Camphene	1	55.2366	52.4406	5.2	54
1,2,3-Trichloropropane	1	40.8263	37.5094	8.5	38
2-Chlorotoluene	1	49.3562	46.79	5.3	47
p-Ethyltoluene	1	54.0211	50.121	7.5	58
4-Chlorotoluene	1	49.1806	45.7474	7.2	48
n-Propylbenzene	1	53.0902	49.645	6.7	46
Bromobenzene	1	40.0349	37.3144	7	41
1,3,5-Trimethylbenzene	1	56.9751	53.3337	6.6	45
Butyl methacrylate	1	31.5349	29.8436	5.5	83
t-Butylbenzene	1	56.2837	52.7206	6.5	46
1,2,4-Trimethylbenzene	1	54.228	50.4834	7.2	49
sec-Butylbenzene	1	61.4487	57.1072	7.3	49
4-Isopropyltoluene	1	54.1658	50.9497	6.1	51
n-Butylbenzene	1	58.5059	54.1522	7.7	55
p-Diethylbenzene	1	59.4623	54.8506	8.1	55
1,2,4,5-Tetramethylbenzene	1	51.266	40.7014	23	59
1,2-Dibromo-3-Chloropropane	**1**	**63.3624**	**43.0033**	**38**	**43**
~~Camphor~~	~~1~~	~~696.9247~~	~~528.9964~~	~~27~~	
Hexachlorobutadiene	1	71.6795	59.5705	18	56
1,2,4-Trichlorobenzene	**1**	**65.4561**	**47.7375**	**31**	**58**
1,2,3-Trichlorobenzene	**1**	**72.3766**	**61.0483**	**17**	**60**
Naphthalene	1	58.9608	49.1537	18	70

MP 06/12

* - Indicates outside of limits | NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Quantitation Report (QT Reviewed)

SampleID : AD38487-003(MS) Operator : sg Qt Meth : 1M_S0518s.M
Data File: 1M174825.D Sam Mult : 1 Vial# : 5 Qt On : 06/14/23 07:57
Acq On : 06/14/23 01:14 Misc : S,5G!4 Qt Upd On: 05/19/23 17:55

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.161	96	881830	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.878	117	908921	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.187	152	556347	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.737	111	251877	31.84	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.13%			
39) 1,2-Dichloroethane-d4	4.955	67	130344	29.26	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.53%			
66) Toluene-d8	6.068	98	1058058	30.71	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.37%			
76) Bromofluorobenzene	7.524	174	423335	32.11	ug/l	0.00
Spiked Amount 30.000			Recovery = 107.03%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.689	51	147314	37.3773	ug/l	99
6) Dichlorodifluoromethane	1.676	85	111430	43.5615	ug/l	96
7) Chloromethane	1.843	50	123658	34.8911	ug/l	99
8) Bromomethane	2.222	94	143780	52.4046	ug/l	95
9) Vinyl Chloride	1.930	62	182067	49.1849	ug/l	99
10) Chloroethane	2.306	64	130970	51.9154	ug/l	96
11) Trichlorofluoromethane	2.518	101	383237	71.0221	ug/l	97
12) Ethyl ether	2.750	59	138704	36.6898	ug/l	96
13) Furan	2.791	39	223775	34.9561	ug/l	89
14) 1,1,2-Trichloro-1,2,2-...	2.946	101	186988	73.7345	ug/l	95
15) Methylene Chloride	3.357	84	126901	35.8315	ug/l	97
16) Acrolein	2.862	56	90813	127.8767	ug/l	90
17) Acrylonitrile	3.557	53	32285	24.3730	ug/l	88
18) Iodomethane	3.097	142	164667	105.4168	ug/l	99
19) Acetone	2.988	43	194003	171.5117	ug/l	92
20) Carbon Disulfide	3.164	76	341321	36.4339	ug/l	100
21) t-Butyl Alcohol	3.431	59	62283	135.4330	ug/l	74
22) n-Hexane	3.827	57	145163	39.6204	ug/l	97
23) Di-isopropyl-ether	3.997	45	286829	30.0753	ug/l	98
24) 1,1-Dichloroethene	2.959	61	265396	51.4446	ug/l	94
25) Methyl Acetate	3.261	43	56986	24.8500	ug/l	100
26) Methyl-t-butyl ether	3.589	73	324961	37.8252	ug/l	94
27) 1,1-Dichloroethane	3.959	63	229190	35.3314	ug/l	98
28) trans-1,2-Dichloroethene	3.595	96	143127	44.6342	ug/l	86
29) Ethyl-t-butyl ether	4.290	59	349831	32.6171	ug/l	98
30) cis-1,2-Dichloroethene	4.415	61	233359	35.0262	ug/l	95
31) Bromochloromethane	4.586	49	95123	30.0359	ug/l	85
32) 2,2-Dichloropropane	4.422	77	236537	47.6737	ug/l	98
33) Ethyl acetate	4.447	43	95981	26.6417	ug/l	89
34) 1,4-Dioxane	5.582	88	92669	2130.6109	ug/l	83
35) 1,1-Dichloropropene	4.869	75	212494	49.2347	ug/l	99
36) Chloroform	4.627	83	280582	41.3586	ug/l	99
38) Cyclohexane	4.811	56	180274	40.0569	ug/l	99
40) 1,2-Dichloroethane	5.004	62	209551	34.2117	ug/l	98
41) 2-Butanone	4.418	43	43187	30.3805	ug/l	87
42) 1,1,1-Trichloroethane	4.769	97	272906	50.8131	ug/l	100
43) Carbon Tetrachloride	4.878	117	229087	54.1600	ug/l	96
44) Vinyl Acetate	3.991	43	283254	26.1673	ug/l	100
45) Bromodichloromethane	5.656	83	216388	41.8848	ug/l	99
46) Methylcyclohexane	5.499	83	246424	54.7341	ug/l	96
47) Dibromomethane	5.579	174	101731	45.7141	ug/l	97
48) 1,2-Dichloropropane	5.508	63	135113	35.1741	ug/l	93
49) Trichloroethene	5.377	130	166004	49.8492	ug/l	99
50) Benzene	5.004	78	568062	43.3515	ug/l	100
51) tert-Amyl methyl ether	5.052	73	359581	39.9684	ug/l	90
53) Iso-propylacetate	5.007	43	213075	28.8425	ug/l	82
54) Methyl methacrylate	5.544	41	96004m	26.3547	ug/l	
55) Dibromochloromethane	6.550	129	157897	40.5058	ug/l	98
56) 2-Chloroethylvinylether	5.984	63	187	1.3092	ug/l	73
57) cis-1,3-Dichloropropene	5.907	75	238297	39.7869	ug/l	97
58) trans-1,3-Dichloropropene	6.209	75	223913	39.6625	ug/l	98
59) Ethyl methacrylate	6.235	41	101247	28.7496	ug/l	87
60) 1,1,2-Trichloroethane	6.319	97	132466	38.2119	ug/l	97
61) 1,2-Dibromoethane	6.627	107	138090	38.5175	ug/l	99
62) 1,3-Dichloropropane	6.415	76	222739	37.2461	ug/l	99
63) 4-Methyl-2-Pentanone	5.981	43	99739	29.0599	ug/l	87
64) 2-Hexanone	6.438	43	72790	28.6479	ug/l	90
65) Tetrachloroethene	6.418	164	140806	53.7354	ug/l	99
67) Toluene	6.103	92	414006	43.8986	ug/l	96

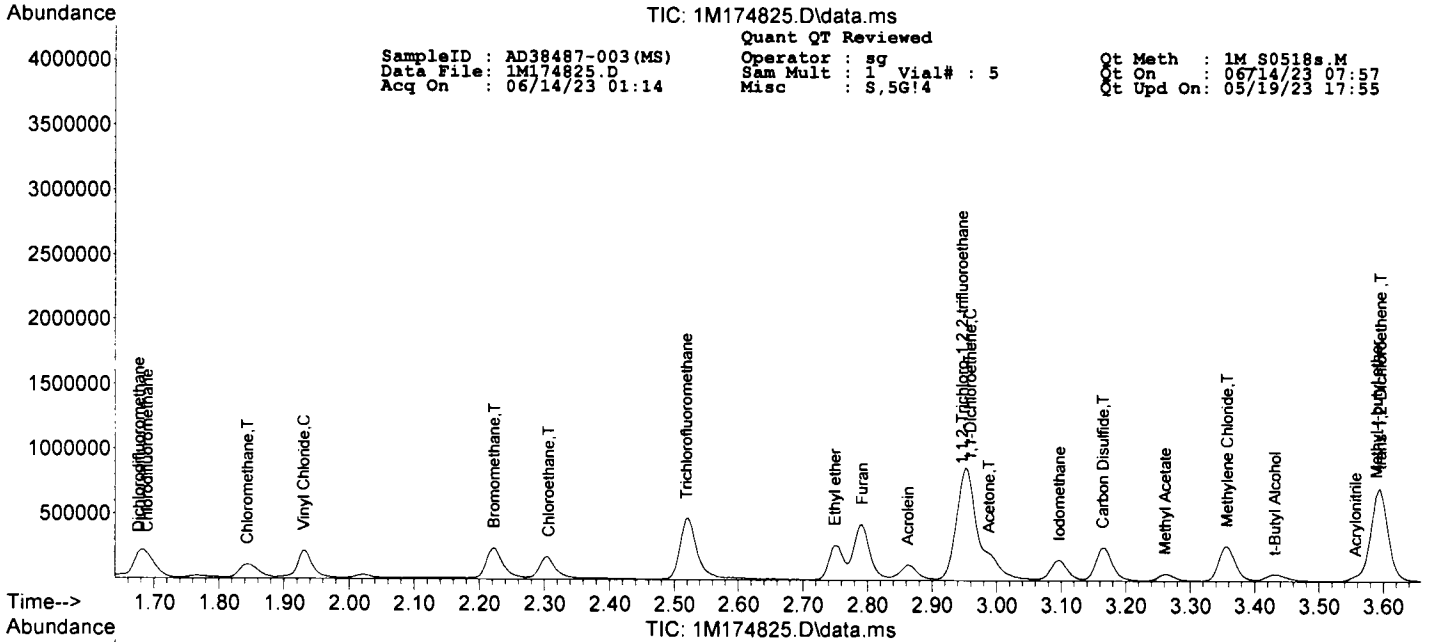
Quantitation Report (QT Reviewed)

SampleID : AD38487-003(MS) Operator : sg Qt Meth : 1M_S0518s.M
Data File: 1M174825.D Sam Mult : 1 Vial# : 5 Qt On : 06/14/23 07:57
Acq On : 06/14/23 01:14 Misc : S,5G!4 Qt Upd On: 05/19/23 17:55

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.930	133	149947	43.3998	ug/l	97
69)	Chlorobenzene	6.894	112	451965	44.3639	ug/l	100
71)	n-Butyl acrylate	7.155	55	240769	31.3926	ug/l	98
72)	n-Amyl acetate	7.277	43	172891	28.4363	ug/l	100
73)	Bromoform	7.357	173	113323	42.0568	ug/l	97
74)	Ethylbenzene	6.939	106	216896	48.0420	ug/l	96
75)	1,1,2,2-Tetrachloroethane	7.582	83	178960	36.9221	ug/l	97
77)	Styrene	7.232	104	527642	50.4766	ug/l	93
78)	m&p-Xylenes	7.000	106	621549	94.4008	ug/l	99
79)	o-Xylene	7.229	106	312767	48.5450	ug/l	99
80)	trans-1,4-Dichloro-2-b...	7.605	53	75497	33.2171	ug/l	27
81)	1,3-Dichlorobenzene	8.155	146	361685	47.6038	ug/l	96
82)	1,4-Dichlorobenzene	8.203	146	357508	46.0476	ug/l	99
83)	1,2-Dichlorobenzene	8.428	146	330307	43.7628	ug/l	97
84)	Isopropylbenzene	7.425	105	733579	51.6206	ug/l	98
85)	Cyclohexanone	7.505	55	54486	254.5324	ug/l	95
86)	Camphene	7.598	93	294317	52.4406	ug/l	99
87)	1,2,3-Trichloropropane	7.618	75	216398	37.5094	ug/l	63
88)	2-Chlorotoluene	7.724	91	492949	46.7900	ug/l	97
89)	p-Ethyltoluene	7.717	105	801298	50.1210	ug/l	100
90)	4-Chlorotoluene	7.782	91	483335	45.7474	ug/l	98
91)	n-Propylbenzene	7.656	91	910619	49.6450	ug/l	96
92)	Bromobenzene	7.627	77	421072	37.3144	ug/l	77
93)	1,3,5-Trimethylbenzene	7.746	105	649981	53.3337	ug/l	99
94)	Butyl methacrylate	7.756	41	142365m	29.8436	ug/l	
95)	t-Butylbenzene	7.942	119	631239	52.7206	ug/l	98
96)	1,2,4-Trimethylbenzene	7.965	105	658242	50.4834	ug/l	99
97)	sec-Butylbenzene	8.068	105	843262	57.1072	ug/l	98
98)	4-Isopropyltoluene	8.138	119	726040	50.9497	ug/l	98
99)	n-Butylbenzene	8.376	91	796049	54.1522	ug/l	90
100)	p-Diethylbenzene	8.360	119	417915	54.8506	ug/l	79
101)	1,2,4,5-Tetramethylben...	8.820	119	590681	40.7014	ug/l	98
102)	1,2-Dibromo-3-Chloropr...	8.875	157	40708	43.0033	ug/l	77
103)	Camphor	9.315	95	191055	528.9964	ug/l	92
104)	Hexachlorobutadiene	9.457	225	142317	59.5705	ug/l	99
105)	1,2,4-Trichlorobenzene	9.370	180	220513	47.7375	ug/l	99
106)	1,2,3-Trichlorobenzene	9.669	180	274301	61.0483	ug/l	99
107)	Naphthalene	9.527	128	625311	49.1537	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed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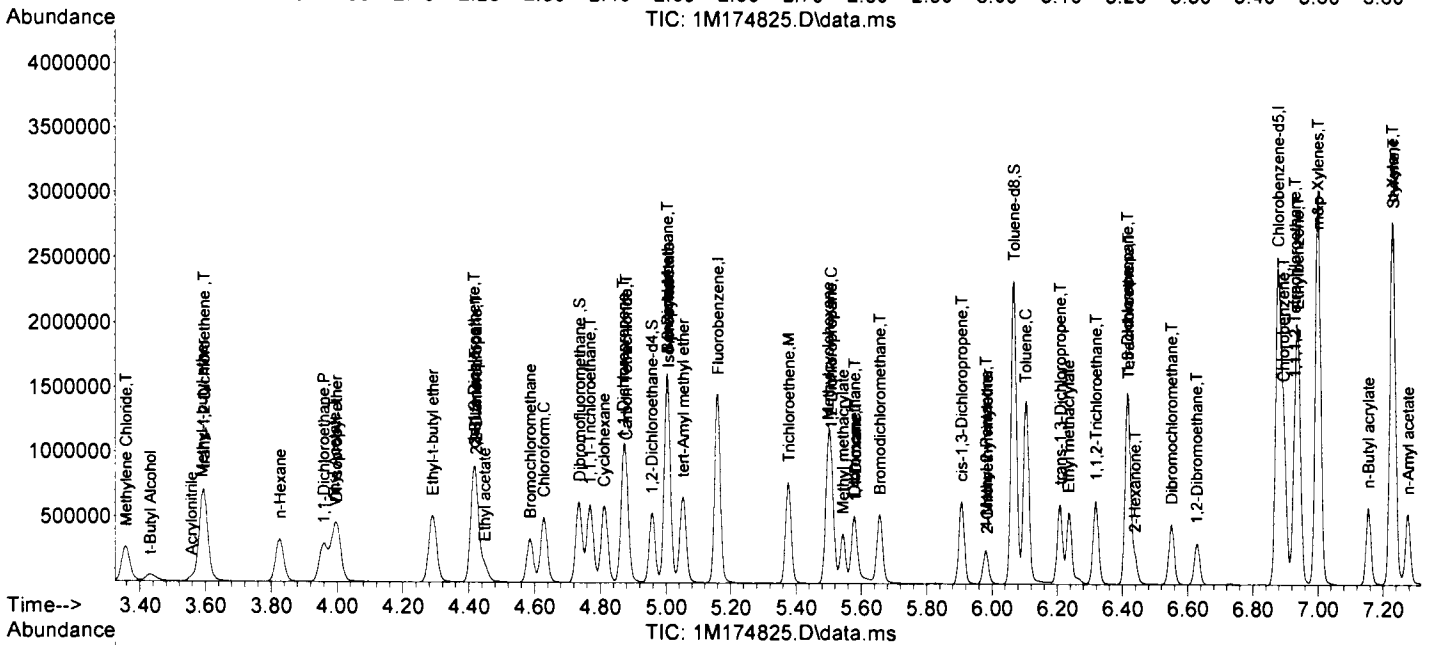
Data File: 1M174825.D
Acq On : 06/14/23 01:14
Operator : sg
Sam Mult : 1 Vial# : 5
Misc : S,5G!4
Qt Meth : 1M_S0518s.M
Qt On : 06/14/23 07:57
Qt Upd On: 05/19/23 17:55
Chloromethane,T
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
Time-->


Abundance
TIC: 1M174825.D\data.ms
Methylene Chloride,T
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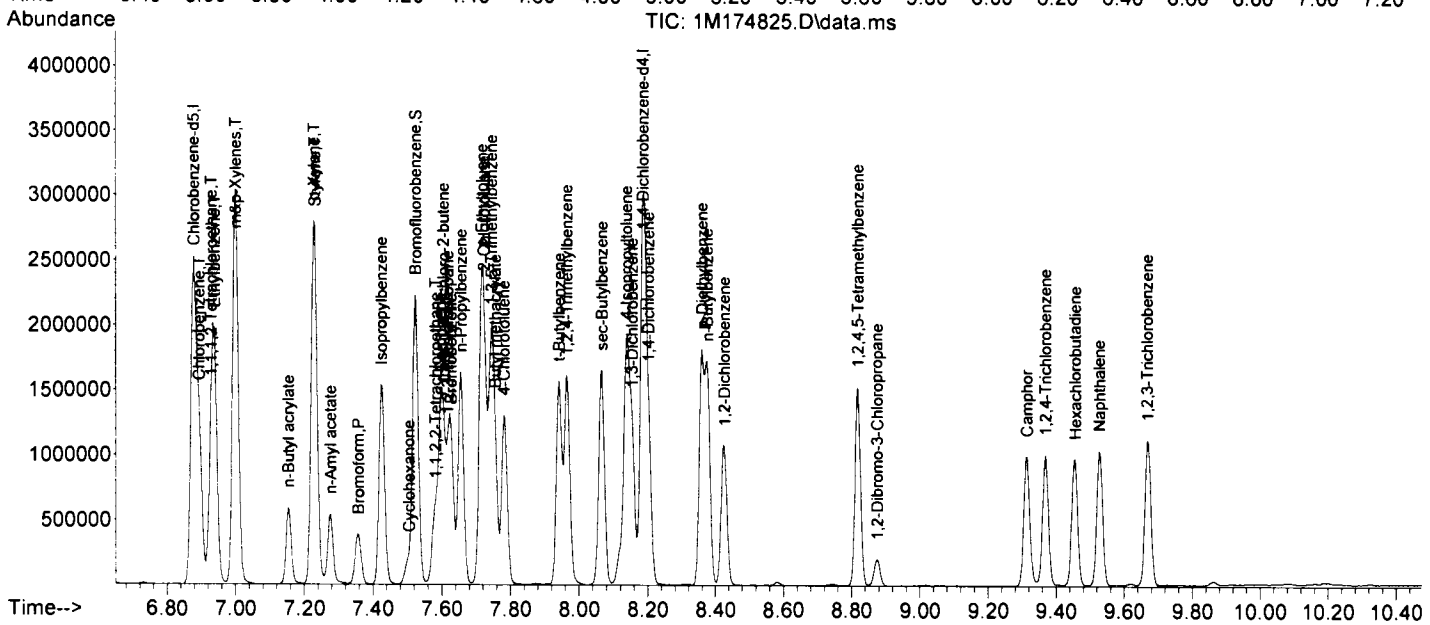
Acrylonitrile
n-Hexane
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
cis-1,3-Dichloropropene,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Time-->


Abundance
TIC: 1M174825.D\data.ms
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : AD38487-003(MSD) Operator : sg Qt Meth : 1M_S0518s.M
Data File: 1M174826.D Sam Mult : 1 Vial# : 6 Qt On : 06/14/23 07:57
Acq On : 06/14/23 01:35 Misc : S,5G!5 Qt Upd On: 05/19/23 17:55

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.161	96	865492	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.878	117	882804	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.187	152	547179	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.737	111	245674	31.64	ug/l	0.00
Spiked Amount 30.000			Recovery = 105.47%			
39) 1,2-Dichloroethane-d4	4.959	67	124192	28.40	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.67%			
66) Toluene-d8	6.068	98	1024111	30.60	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.00%			
76) Bromofluorobenzene	7.524	174	409379	31.57	ug/l	0.00
Spiked Amount 30.000			Recovery = 105.23%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.689	51	152880	39.5218	ug/l	94
6) Dichlorodifluoromethane	1.676	85	122481	48.7856	ug/l	99
7) Chloromethane	1.843	50	138744	39.8867	ug/l	98
8) Bromomethane	2.222	94	164135	60.9529	ug/l	98
9) Vinyl Chloride	1.933	62	198269	54.5729	ug/l	98
10) Chloroethane	2.303	64	143259	57.8587	ug/l	97
11) Trichlorofluoromethane	2.521	101	402927	76.0806	ug/l	99
12) Ethyl ether	2.753	59	160814	43.3414	ug/l	98
13) Furan	2.792	39	248993	39.6297	ug/l	88
14) 1,1,2-Trichloro-1,2,2-...	2.946	101	122252	49.1174	ug/l	96
15) Methylene Chloride	3.357	84	146155	42.0471	ug/l	98
16) Acrolein	2.865	56	107182	153.7755	ug/l	92
17) Acrylonitrile	3.566	53	37367	28.7421	ug/l	85
18) Iodomethane	3.100	142	181777	116.9535	ug/l	97
19) Acetone	2.991	43	158937	142.6463	ug/l	89
20) Carbon Disulfide	3.171	76	371394	40.3924	ug/l	100
21) t-Butyl Alcohol	3.431	59	73127	162.0147	ug/l	77
22) n-Hexane	3.827	57	154004	42.8269	ug/l	95
23) Di-isopropyl-ether	4.000	45	322610	34.4656	ug/l	96
24) 1,1-Dichloroethene	2.959	61	192865	38.0908	ug/l	98
25) Methyl Acetate	3.264	43	65730	29.2041	ug/l	100
26) Methyl-t-butyl ether	3.592	73	367002	43.5251	ug/l	94
27) 1,1-Dichloroethane	3.959	63	252756	39.6998	ug/l	98
28) trans-1,2-Dichloroethene	3.599	96	154083	48.9579	ug/l	84
29) Ethyl-t-butyl ether	4.290	59	391335	37.1756	ug/l	98
30) cis-1,2-Dichloroethene	4.415	61	257350	39.3563	ug/l	96
31) Bromochloromethane	4.589	49	104069	33.4810	ug/l	84
32) 2,2-Dichloropropane	4.422	77	253698	52.0977	ug/l	98
33) Ethyl acetate	4.451	43	110747	31.3206	ug/l	90
34) 1,4-Dioxane	5.579	88	105767	2477.6598	ug/l	87
35) 1,1-Dichloropropene	4.872	75	220942	52.1585	ug/l	97
36) Chloroform	4.631	83	308203	46.2876	ug/l	97
38) Cyclohexane	4.814	56	180770	40.9254	ug/l	98
40) 1,2-Dichloroethane	5.004	62	236263	39.3009	ug/l	98
41) 2-Butanone	4.418	43	41733	29.9119	ug/l	80
42) 1,1,1-Trichloroethane	4.769	97	286052	54.2662	ug/l	100
43) Carbon Tetrachloride	4.878	117	237822	57.2865	ug/l	99
44) Vinyl Acetate	3.994	43	303645	28.5806	ug/l	100
45) Bromodichloromethane	5.656	83	240654	47.4611	ug/l	99
46) Methylcyclohexane	5.499	83	252853	57.2223	ug/l	96
47) Dibromomethane	5.579	174	114057	52.2205	ug/l	94
48) 1,2-Dichloropropane	5.508	63	148451	39.3759	ug/l	94
49) Trichloroethene	5.377	130	175548	53.7103	ug/l	95
50) Benzene	5.004	78	620292	48.2311	ug/l	100
51) tert-Amyl methyl ether	5.052	73	404022	45.7559	ug/l	90
53) Iso-propylacetate	5.007	43	235160	32.7737	ug/l	82
54) Methyl methacrylate	5.544	41	104477m	29.5292	ug/l	
55) Dibromochloromethane	6.550	129	175244	46.2858	ug/l	99
56) 2-Chloroethylvinylether	5.987	63	299	2.1467	ug/l	76
57) cis-1,3-Dichloropropene	5.907	75	262816	45.1789	ug/l	97
58) trans-1,3-Dichloropropene	6.209	75	248945	45.4011	ug/l	97
59) Ethyl methacrylate	6.238	41	109446	31.9971	ug/l	82
60) 1,1,2-Trichloroethane	6.319	97	151276	44.9289	ug/l	96
61) 1,2-Dibromoethane	6.627	107	153488	44.0790	ug/l	99
62) 1,3-Dichloropropane	6.415	76	249578	42.9688	ug/l	96
63) 4-Methyl-2-Pentanone	5.981	43	107490	32.2447	ug/l	76
64) 2-Hexanone	6.438	43	79853	32.3574	ug/l	97
65) Tetrachloroethene	6.418	164	147478	57.9467	ug/l	98
67) Toluene	6.106	92	440503	48.0900	ug/l	100

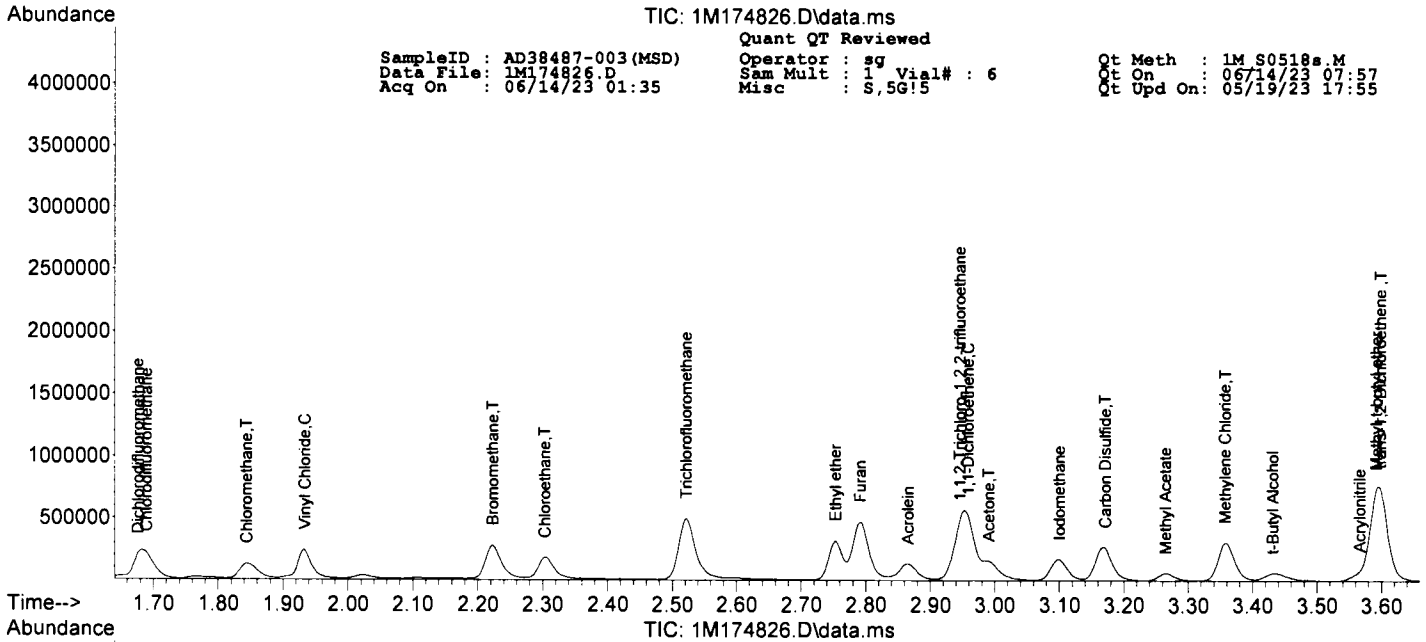
Quantitation Report (QT Reviewed)

SampleID : AD38487-003(MSD) Operator : sg Qt Meth : lM_S0518s.M
Data File: lM174826.D Sam Mult : 1 Vial# : 6 Qt On : 06/14/23 07:57
Acq On : 06/14/23 01:35 Misc : S,5G!5 Qt Upd On: 05/19/23 17:55

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,1,1,2-Tetrachloroethane	6.930	133	163546	48.7363	ug/l	95
69) Chlorobenzene	6.894	112	477931	48.3006	ug/l	98
71) n-Butyl acrylate	7.155	55	243460	32.2753	ug/l	98
72) n-Amyl acetate	7.277	43	178212	29.8026	ug/l	98
73) Bromoform	7.357	173	122566	46.2492	ug/l	96
74) Ethylbenzene	6.939	106	231232	52.0755	ug/l	90
75) 1,1,2,2-Tetrachloroethane	7.579	83	190958	40.0575	ug/l	99
77) Styrene	7.232	104	547246	53.2291	ug/l	94
78) m&p-Xylenes	7.000	106	650598	100.4684	ug/l	95
79) o-Xylene	7.229	106	319712	50.4543	ug/l	100
80) trans-1,4-Dichloro-2-b...	7.605	53	78951	35.3188	ug/l	22
81) 1,3-Dichlorobenzene	8.155	146	382046	51.1262	ug/l	96
82) 1,4-Dichlorobenzene	8.203	146	383608	50.2372	ug/l	99
83) 1,2-Dichlorobenzene	8.428	146	350601	47.2299	ug/l	97
84) Isopropylbenzene	7.425	105	772516	55.2714	ug/l	98
85) Cyclohexanone	7.502	55	59105	280.7364	ug/l	96
86) Camphene	7.598	93	304901	55.2366	ug/l	99
87) 1,2,3-Trichloropropane	7.618	75	231652	40.8263	ug/l	63
88) 2-Chlorotoluene	7.724	91	511416	49.3562	ug/l	96
89) p-Ethyltoluene	7.714	105	849417	54.0211	ug/l	99
90) 4-Chlorotoluene	7.782	91	511046	49.1806	ug/l	98
91) n-Propylbenzene	7.656	91	957766	53.0902	ug/l	96
92) Bromobenzene	7.624	77	444326	40.0349	ug/l	77
93) 1,3,5-Trimethylbenzene	7.743	105	682916	56.9751	ug/l	97
94) Butyl methacrylate	7.756	41	147954m	31.5349	ug/l	
95) t-Butylbenzene	7.942	119	662795	56.2837	ug/l	98
96) 1,2,4-Trimethylbenzene	7.965	105	695416	54.2280	ug/l	99
97) sec-Butylbenzene	8.065	105	892418	61.4487	ug/l	96
98) 4-Isopropyltoluene	8.139	119	759150	54.1658	ug/l	98
99) n-Butylbenzene	8.376	91	845877	58.5059	ug/l	90
100) p-Diethylbenzene	8.360	119	445586	59.4623	ug/l	80
101) 1,2,4,5-Tetramethylben...	8.817	119	715781	51.2660	ug/l	97
102) 1,2-Dibromo-3-Chloropr...	8.875	157	58992	63.3624	ug/l	60
103) Camphor	9.315	95	247557	696.9247	ug/l	90
104) Hexachlorobutadiene	9.457	225	168424	71.6795	ug/l	99
105) 1,2,4-Trichlorobenzene	9.370	180	297378	65.4561	ug/l	99
106) 1,2,3-Trichlorobenzene	9.672	180	319842	72.3766	ug/l	97
107) Naphthalene	9.528	128	737712	58.9608	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed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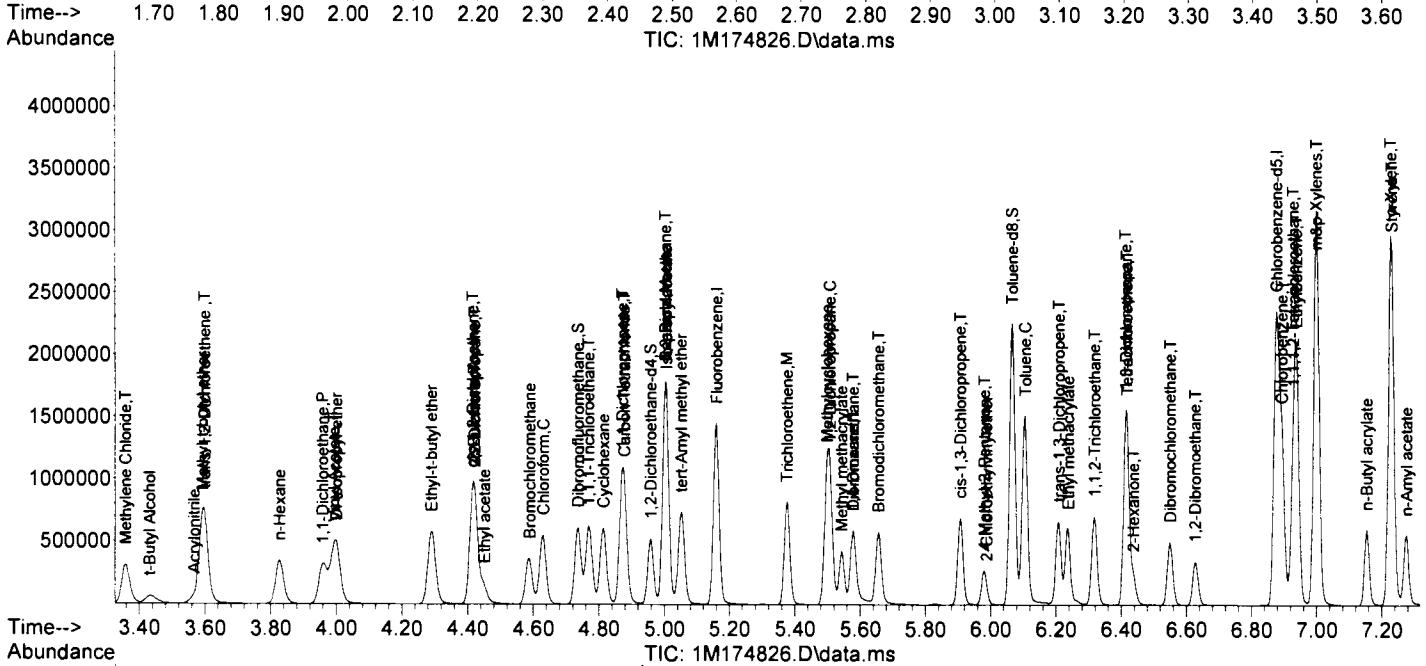
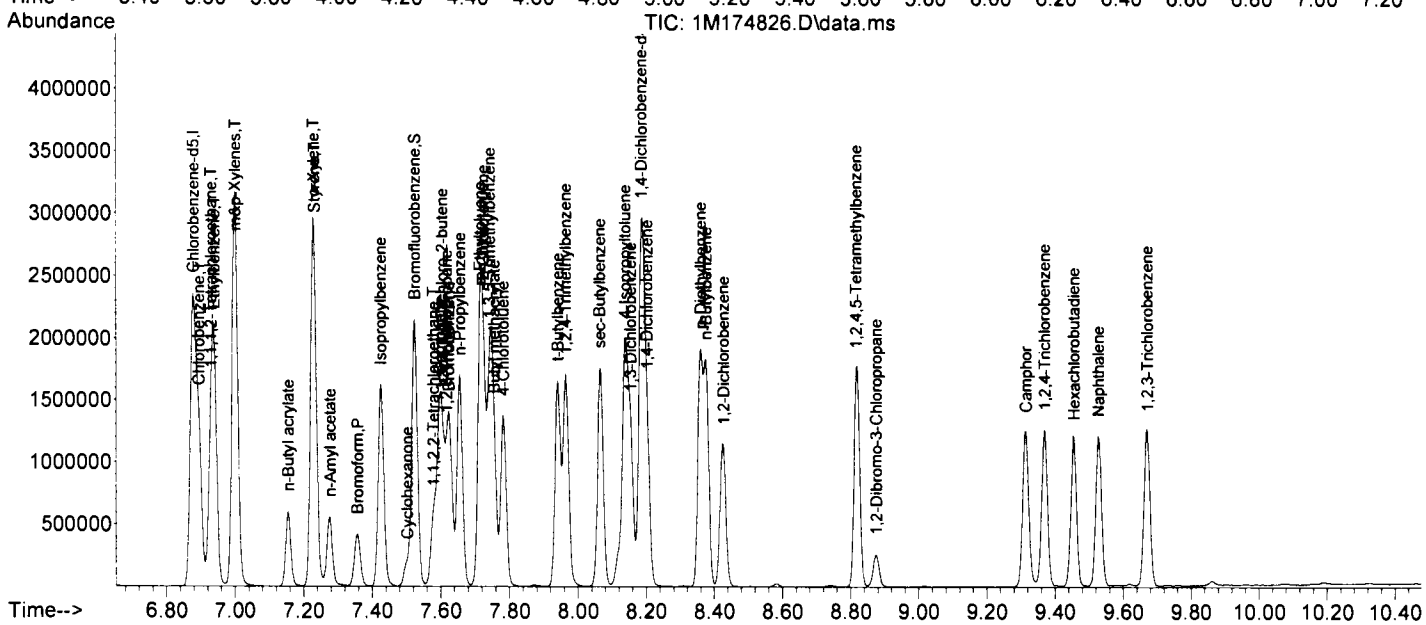
Quant QT Reviewed
SampleID : AD38487-003(MSD)
Data File: 1M174826.D
Acq On : 06/14/23 01:35
Operator : sg
Sam Mult : 1 Vial# : 6
Misc : S,5G!5
Qt Meth : 1M_S0518s.M
Qt On : 06/14/23 07:57
Qt Upd On: 05/19/23 17:55
Chloromethane,T
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
Time-->


Abundance
TIC: 1M174826.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
cis-1,3-Dichloropropene,T
Toluene-d8,S
Toluene,C
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
n-Butyl acrylate
n-Amyl acetate
Time-->


Abundance
TIC: 1M174826.D\data.ms
Chlorobenzene-d5,I
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
n-Propylbenzene
t-Butylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

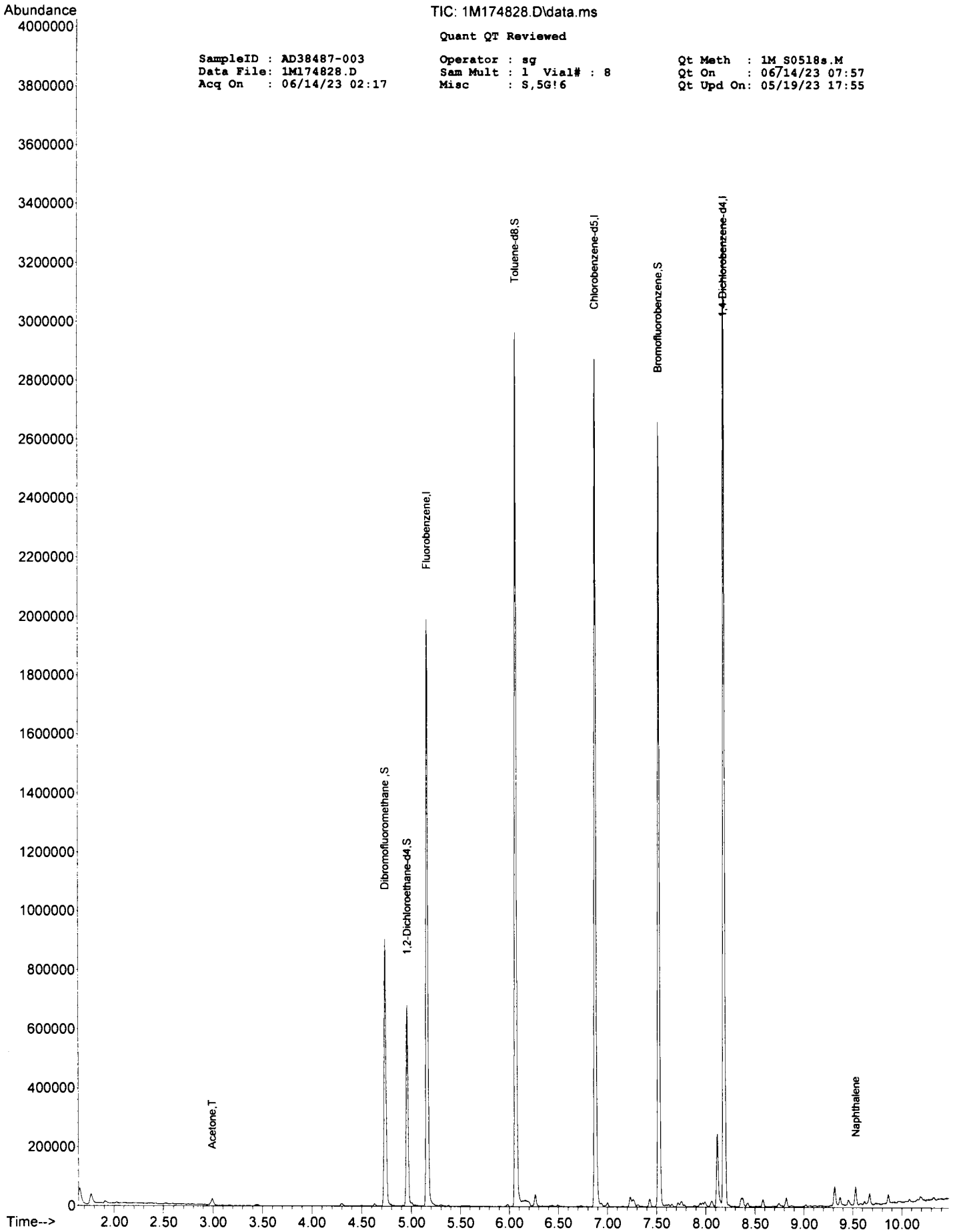
Quantitation Report (QT Reviewed)

SampleID : AD38487-003 Operator : sg Qt Meth : 1M_S0518s.M
Data File: 1M174828.D Sam Mult : 1 Vial# : 8 Qt On : 06/14/23 07:57
Acq On : 06/14/23 02:17 Misc : S,5G!6 Qt Upd On: 05/19/23 17:55

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-1323\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.161	96	1278073	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.878	117	1237147	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.187	152	711899	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.737	111	372630	32.50	ug/l	0.00
Spiked Amount 30.000			Recovery = 108.33%			
39) 1,2-Dichloroethane-d4	4.959	67	163323	25.29	ug/l	0.00
Spiked Amount 30.000			Recovery = 84.30%			
66) Toluene-d8	6.068	98	1393812	29.72	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.07%			
76) Bromofluorobenzene	7.524	174	583233	34.57	ug/l	0.00
Spiked Amount 30.000			Recovery = 115.23%			
Target Compounds						Qvalue
19) Acetone	2.991	43	22331	13.3561	ug/l	89
107) Naphthalene	9.528	128	38158m	2.3441	ug/l	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 1M174828.D\data.ms
Quant QT Reviewed
SampleID : AD38487-003
Data File: 1M174828.D
Acq On : 06/14/23 02:17
Operator : sg
Sam Mult : 1 Vial# : 8
Misc : S,5G!6
Qt Meth : 1M_S0518s.M
Qt On : 06/14/23 07:57
Qt Upd On: 05/19/23 17:55
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4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
8.00
8.50
9.00
9.50
10.00
Acetone,T
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Naphthalene

Form3
Recovery Data Laboratory Limits
QC Batch: MBS109413

	Data File	Sample ID:	Analysis Date
Spike or Dup:	1M174859.D	MBS109413	6/14/2023 1:17:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	84.2465	0	50	168	10	168
Dichlorodifluoromethane	1	39.0702	0	50	78	10	150
Chloromethane	1	26.9756	0	50	54	12	150
Bromomethane	1	41.0149	0	50	82	23	136
Vinyl Chloride	1	38.0025	0	50	76	21	153
Chloroethane	1	43.2848	0	50	87	33	147
Trichlorofluoromethane	1	57.5087	0	50	115	29	156
Ethyl ether	1	35.2058	0	50	70	10	141
Furan	1	31.1595	0	50	62	22	152
1,1,2-Trichloro-1,2,2-trifluoroethane	1	66.5356	0	50	133	32	149
Methylene Chloride	1	43.367	0	50	87	35	147
Acrolein	1	139.6508	0	200	70	10	149
Acrylonitrile	1	29.7118	0	50	59	20	130
Iodomethane	1	112.7762	0	50	226*	10	152
Acetone	1	160.702	0	200	80	22	222
Carbon Disulfide	1	38.7319	0	50	77	18	135
t-Butyl Alcohol	1	170.8711	0	200	85	38	178
n-Hexane	1	42.2606	0	50	85	11	154
Di-isopropyl-ether	1	35.8502	0	50	72	38	150
1,1-Dichloroethene	1	45.0114	0	50	90	31	165
Methyl Acetate	1	28.4576	0	50	57	10	237
Methyl-t-butyl ether	1	47.3655	0	50	95	40	151
1,1-Dichloroethane	1	41.5641	0	50	83	41	149
trans-1,2-Dichloroethene	1	53.603	0	50	107	33	150
Ethyl-t-butyl ether	1	38.8539	0	50	78	22	184
cis-1,2-Dichloroethene	1	40.5392	0	50	81	33	146
Bromochloromethane	1	32.1656	0	50	64	38	143
2,2-Dichloropropane	1	56.6217	0	50	113	38	161
Ethyl acetate	1	31.8735	0	50	64	10	130
1,4-Dioxane	1	1885.119	0	2500	75	35	151
1,1-Dichloropropene	1	56.5046	0	50	113	34	149
Chloroform	1	50.1015	0	50	100	41	145
Cyclohexane	1	43.952	0	50	88	25	148
1,2-Dichloroethane	1	37.989	0	50	76	37	143
2-Butanone	1	33.6265	0	50	67	21	163
1,1,1-Trichloroethane	1	61.296	0	50	123	38	149
Carbon Tetrachloride	1	63.9959	0	50	128	33	150
Vinyl Acetate	1	35.2154	0	50	70	10	112
Bromodichloromethane	1	50.1891	0	50	100	36	146
Methylcyclohexane	1	67.1149	0	50	134	15	147
Dibromomethane	1	66.3564	0	50	133	32	144
1,2-Dichloropropane	1	41.0162	0	50	82	40	144
Trichloroethene	1	67.5685	0	50	135	24	161
Benzene	1	52.2363	0	50	104	38	146
tert-Amyl methyl ether	1	48.4366	0	50	97	10	240
Iso-propylacetate	1	33.7719	0	50	68	10	139
Methyl methacrylate	1	31.7858	0	50	64	10	224
Dibromochloromethane	1	56.1977	0	50	112	32	140
2-Chloroethylvinylether	1	0	0	50	0*	10	266
cis-1,3-Dichloropropene	1	48.8225	0	50	98	27	139
trans-1,3-Dichloropropene	1	47.3232	0	50	95	22	141
Ethyl methacrylate	1	33.1207	0	50	66	16	151
1,1,2-Trichloroethane	1	50.8399	0	50	102	32	138
1,2-Dibromoethane	1	52.5232	0	50	105	30	135
1,3-Dichloropropane	1	45.828	0	50	92	36	136
4-Methyl-2-Pentanone	1	33.8413	0	50	68	23	137
2-Hexanone	1	32.4371	0	50	65	10	149
Tetrachloroethene	1	76.2719	0	50	153*	24	140
Toluene	1	53.735	0	50	107	31	139
1,1,1,2-Tetrachloroethane	1	59.5236	0	50	119	31	134
Chlorobenzene	1	57.5286	0	50	115	24	134

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS109413

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	33.6832	0	50	67	10	140
n-Amyl acetate	1	35.2106	0	50	70	10	138
Bromoform	**1**	**57.229**	**0**	**50**	**114**	**21**	**137**
Ethylbenzene	**1**	**56.9619**	**0**	**50**	**114**	**29**	**137**
1,1,2,2-Tetrachloroethane	**1**	**39.8139**	**0**	**50**	**80**	**18**	**136**
Styrene	**1**	**56.986**	**0**	**50**	**114**	**14**	**141**
m&p-Xylenes	**1**	**108.1154**	**0**	**100**	**108**	**18**	**152**
o-Xylene	**1**	**55.0044**	**0**	**50**	**110**	**21**	**146**
trans-1,4-Dichloro-2-butene	1	34.4665	0	50	69	11	139
1,3-Dichlorobenzene	**1**	**66.3687**	**0**	**50**	**133**	**10**	**134**
1,4-Dichlorobenzene	**1**	**60.5901**	**0**	**50**	**121**	**10**	**132**
1,2-Dichlorobenzene	**1**	**63.3527**	**0**	**50**	**127**	**10**	**129**
Isopropylbenzene	**1**	**60.1708**	**0**	**50**	**120**	**14**	**150**
Cyclohexanone	1	452.8197	0	250	181	10	344
Camphene	1	58.7755	0	50	118	10	137
1,2,3-Trichloropropane	1	39.8255	0	50	80	20	133
2-Chlorotoluene	1	57.4099	0	50	115	13	140
p-Ethyltoluene	1	63.9889	0	50	128	10	138
4-Chlorotoluene	1	58.791	0	50	118	10	138
n-Propylbenzene	1	57.9105	0	50	116	10	145
Bromobenzene	1	39.7773	0	50	80	14	132
1,3,5-Trimethylbenzene	1	66.8849	0	50	134	12	146
Butyl methacrylate	1	42.5471	0	50	85	10	154
t-Butylbenzene	1	72.1246	0	50	144*	10	142
1,2,4-Trimethylbenzene	1	68.1516	0	50	136	10	147
sec-Butylbenzene	1	76.8847	0	50	154*	10	146
4-Isopropyltoluene	1	68.8183	0	50	138*	10	128
n-Butylbenzene	1	74.145	0	50	148*	10	146
p-Diethylbenzene	1	80.4613	0	50	161*	10	142
1,2,4,5-Tetramethylbenzene	1	61.9751	0	50	124	10	130
1,2-Dibromo-3-Chloropropane	**1**	**61.9878**	**0**	**50**	**124**	**16**	**126**
Camphor	1	601.5822	0	200	301*	20	150
Hexachlorobutadiene	1	89.7147	0	50	179*	10	123
1,2,4-Trichlorobenzene	**1**	**74.0179**	**0**	**50**	**148***	**10**	**128**
1,2,3-Trichlorobenzene	**1**	**70.8309**	**0**	**50**	**142***	**10**	**123**
Naphthalene	1	54.4437	0	50	109	10	140

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Quantitation Report (QT Reviewed)

SampleID : MBS
Data File: 1M174859.D
Acq On : 06/14/23 13:17

Operator : sg
Sam Mult : 1 Vial# : 12
Misc : S,5G

Qt Meth : 1M_S0518s.M
Qt On : 06/14/23 13:31
Qt Upd On: 05/19/23 17:55

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-14-23\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.161	96	1190163	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.878	117	1206267	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.187	152	822548	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.737	111	334408	31.32	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.40%			
39) 1,2-Dichloroethane-d4	4.959	67	153773	25.57	ug/l	0.00
Spiked Amount 30.000			Recovery = 85.23%			
66) Toluene-d8	6.068	98	1330505	29.09	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.97%			
76) Bromofluorobenzene	7.524	174	638083	32.73	ug/l	0.00
Spiked Amount 30.000			Recovery = 109.10%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.692	51	448136	84.2465	ug/l	47
6) Dichlorodifluoromethane	1.679	85	134886	39.0702	ug/l	92
7) Chloromethane	1.846	50	129033	26.9756	ug/l	97
8) Bromomethane	2.222	94	151877	41.0149	ug/l	96
9) Vinyl Chloride	1.933	62	189860	38.0025	ug/l	100
10) Chloroethane	2.306	64	147378	43.2848	ug/l	99
11) Trichlorofluoromethane	2.521	101	418822	57.5087	ug/l	98
12) Ethyl ether	2.753	59	179630	35.2058	ug/l	95
13) Furan	2.791	39	269216	31.1595	ug/l	89
14) 1,1,2-Trichloro-1,2,2-...	2.949	101	227729	66.5356	ug/l	92
15) Methylene Chloride	3.357	84	207291	43.3670	ug/l	96
16) Acrolein	2.865	56	133851	139.6508	ug/l	90
17) Acrylonitrile	3.560	53	53118	29.7118	ug/l	89
18) Iodomethane	3.097	142	239851	112.7762	ug/l	98
19) Acetone	2.994	43	245667	160.7020	ug/l	92
20) Carbon Disulfide	3.168	76	489719	38.7319	ug/l	100
21) t-Butyl Alcohol	3.431	59	106056	170.8711	ug/l	73
22) n-Hexane	3.824	57	208975	42.2606	ug/l	93
23) Di-isopropyl-ether	3.997	45	461452	35.8502	ug/l	91
24) 1,1-Dichloroethene	2.959	61	313400	45.0114	ug/l	91
25) Methyl Acetate	3.261	43	88077	28.4576	ug/l	100
26) Methyl-t-butyl ether	3.595	73	549204	47.3655	ug/l	94
27) 1,1-Dichloroethane	3.959	63	363894	41.5641	ug/l	99
28) trans-1,2-Dichloroethene	3.595	96	231987	53.6030	ug/l	82
29) Ethyl-t-butyl ether	4.290	59	562431	38.8539	ug/l	95
30) cis-1,2-Dichloroethene	4.415	61	364526	40.5392	ug/l	96
31) Bromochloromethane	4.586	49	137486	32.1656	ug/l	64
32) 2,2-Dichloropropane	4.422	77	379162	56.6217	ug/l	97
33) Ethyl acetate	4.450	43	154980	31.8735	ug/l	89
34) 1,4-Dioxane	5.579	88	110660	1885.1190	ug/l	84
35) 1,1-Dichloropropene	4.872	75	329140	56.5046	ug/l	95
36) Chloroform	4.631	83	458740	50.1015	ug/l	100
38) Cyclohexane	4.814	56	266966	43.9520	ug/l	95
40) 1,2-Dichloroethane	5.004	62	314047	37.9890	ug/l	97
41) 2-Butanone	4.418	43	64515	33.6265	ug/l	80
42) 1,1,1-Trichloroethane	4.769	97	444315	61.2960	ug/l	98
43) Carbon Tetrachloride	4.878	117	365338	63.9959	ug/l	99
44) Vinyl Acetate	3.984	43	514483	35.2154	ug/l	100
45) Bromodichloromethane	5.656	83	349952	50.1891	ug/l	98
46) Methylcyclohexane	5.499	83	407817	67.1149	ug/l	91
47) Dibromomethane	5.579	174	199300	66.3564	ug/l	97
48) 1,2-Dichloropropane	5.508	63	212643	41.0162	ug/l	91
49) Trichloroethene	5.377	130	303687	67.5685	ug/l	92
50) Benzene	5.004	78	923816	52.2363	ug/l	100
51) tert-Amyl methyl ether	5.052	73	588132	48.4366	ug/l	87
53) Iso-propylacetate	5.007	43	331110	33.7719	ug/l	82
54) Methyl methacrylate	5.544	41	153667m	31.7858	ug/l	
55) Dibromochloromethane	6.550	129	290732	56.1977	ug/l	99
56) 2-Chloroethylvinylether	5.785	63	234	1.2349	ug/l	58
57) cis-1,3-Dichloropropene	5.907	75	388075	48.8225	ug/l	98
58) trans-1,3-Dichloropropene	6.209	75	354561	47.3232	ug/l	98
59) Ethyl methacrylate	6.235	41	154799	33.1207	ug/l	71
60) 1,1,2-Trichloroethane	6.319	97	233899	50.8399	ug/l	93
61) 1,2-Dibromoethane	6.627	107	249904	52.5232	ug/l	99
62) 1,3-Dichloropropane	6.415	76	363717	45.8280	ug/l	98
63) 4-Methyl-2-Pentanone	5.981	43	154147	33.8413	ug/l	81
64) 2-Hexanone	6.438	43	109380	32.4371	ug/l	82
65) Tetrachloroethene	6.415	164	265242	76.2719	ug/l	99
67) Toluene	6.106	92	672559	53.7350	ug/l	100

Quantitation Report (QT Reviewed)

SampleID : MBS
Data File: 1M174859.D
Acq On : 06/14/23 13:17

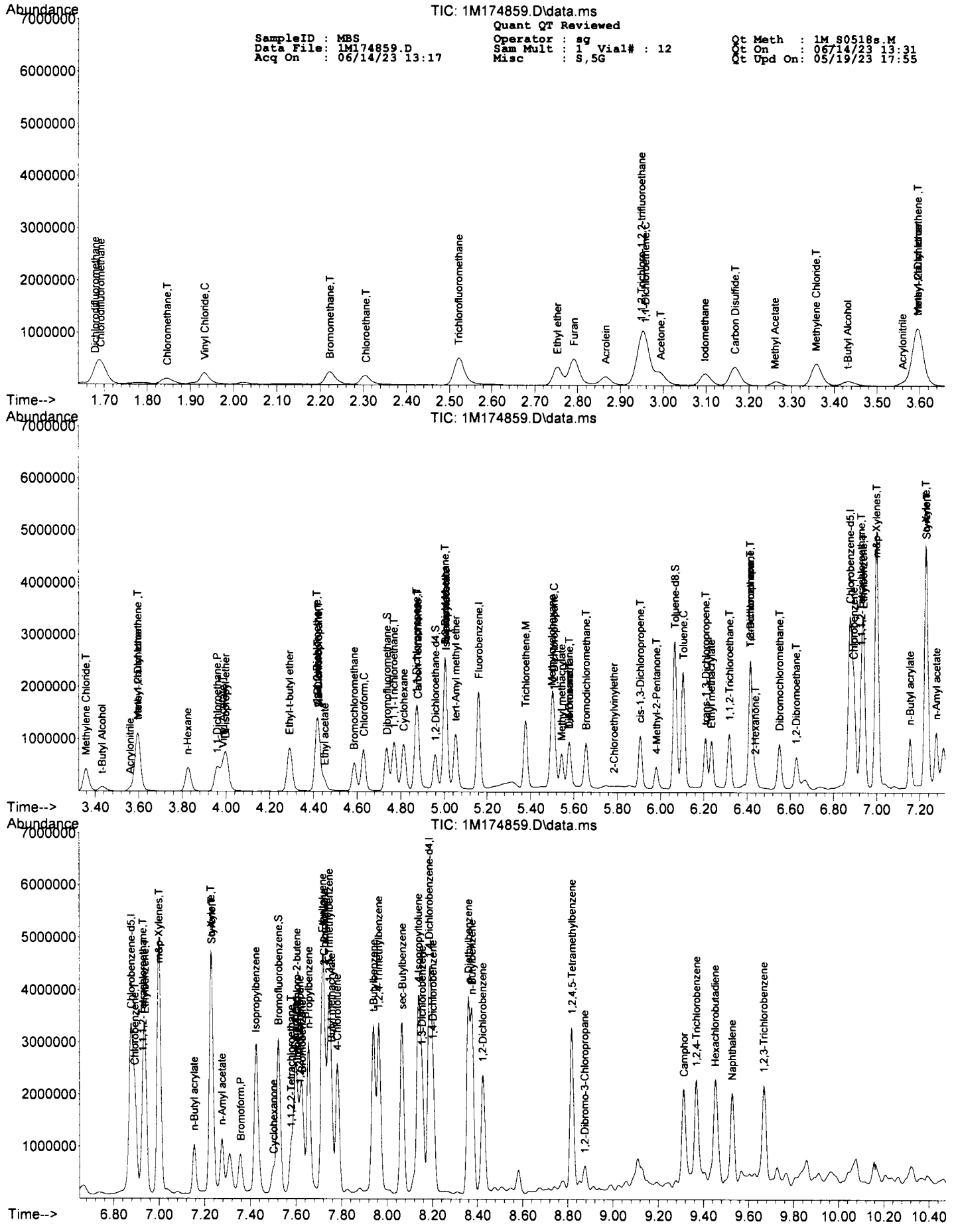
Operator : sg
Sam Mult : 1 Vial# : 12
Misc : S,5G

Qt Meth : 1M_S0518s.M
Qt On : 06/14/23 13:31
Qt Upd On: 05/19/23 17:55

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-14-23\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.930	133	272933	59.5236	ug/l	99
69)	Chlorobenzene	6.894	112	777814	57.5286	ug/l	99
71)	n-Butyl acrylate	7.155	55	381946	33.6832	ug/l	97
72)	n-Amyl acetate	7.277	43	316511	35.2106	ug/l	97
73)	Bromoform	7.357	173	227989	57.2290	ug/l	98
74)	Ethylbenzene	6.939	106	380216	56.9619	ug/l	86
75)	1,1,2,2-Tetrachloroethane	7.579	83	285312	39.8139	ug/l	98
77)	Styrene	7.232	104	880710	56.9860	ug/l	89
78)	m&p-Xylenes	7.000	106	1052453	108.1154	ug/l	90
79)	o-Xylene	7.229	106	523950	55.0044	ug/l	91
80)	trans-1,4-Dichloro-2-b...	7.605	53	115819	34.4665	ug/l	15
81)	1,3-Dichlorobenzene	8.155	146	745534	66.3687	ug/l	94
82)	1,4-Dichlorobenzene	8.203	146	695497	60.5901	ug/l	98
83)	1,2-Dichlorobenzene	8.425	146	706957	63.3527	ug/l	95
84)	Isopropylbenzene	7.425	105	1264226	60.1708	ug/l	97
85)	Cyclohexanone	7.502	55	143312	452.8197	ug/l	91
86)	Camphene	7.598	93	487708	58.7755	ug/l	90
87)	1,2,3-Trichloropropane	7.618	75	339695	39.8255	ug/l	60
88)	2-Chlorotoluene	7.724	91	894234	57.4099	ug/l	95
89)	p-Ethyltoluene	7.717	105	1512496	63.9889	ug/l	98
90)	4-Chlorotoluene	7.782	91	918350	58.7910	ug/l	96
91)	n-Propylbenzene	7.656	91	1570486	57.9105	ug/l	92
92)	Bromobenzene	7.627	77	663637	39.7773	ug/l	60
93)	1,3,5-Trimethylbenzene	7.746	105	1205153	66.8849	ug/l	95
94)	Butyl methacrylate	7.756	41	300080m	42.5471	ug/l	
95)	t-Butylbenzene	7.942	119	1276769	72.1246	ug/l	93
96)	1,2,4-Trimethylbenzene	7.965	105	1313799	68.1516	ug/l	97
97)	sec-Butylbenzene	8.068	105	1678523	76.8847	ug/l	94
98)	4-Isopropyltoluene	8.138	119	1449901	68.8183	ug/l	97
99)	n-Butylbenzene	8.376	91	1611465	74.1450	ug/l	92
100)	p-Diethylbenzene	8.360	119	906377	80.4613	ug/l	79
101)	1,2,4,5-Tetramethylben...	8.820	119	1271371	61.9751	ug/l	95
102)	1,2-Dibromo-3-Chloropr...	8.875	157	86756	61.9878	ug/l	59
103)	Camphor	9.315	95	321230	601.5822	ug/l	89
104)	Hexachlorobutadiene	9.454	225	316887	89.7147	ug/l	99
105)	1,2,4-Trichlorobenzene	9.370	180	505507	74.0179	ug/l	98
106)	1,2,3-Trichlorobenzene	9.669	180	470535	70.8309	ug/l	98
107)	Naphthalene	9.527	128	1024007	54.4437	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 1M174859.D\data.ms
Quant QT Reviewed
SampleID : MBS
Data File: 1M174859.D
Acq On : 06/14/23 13:17
Operator : sg
Sam Mult : 1 Vial# : 12
Misc : S,5G
Qt Meth : 1M_S0518s.M
Qt On : 06/14/23 13:31
Qt Upd On: 05/19/23 17:55
Abundance
Time-->

Form3
Recovery Data Laboratory Limits
QC Batch: MBS109413

	Data File	Sample ID:	Analysis Date
Spike or Dup:	1M174860.D	AD38501-004(MS)	6/14/2023 1:38:00 PM
Non Spike(If applicable):	1M174862.D	AD38501-004	6/14/2023 2:20:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	54.301	0	50	109	10	168
Dichlorodifluoromethane	1	26.7879	0	50	54	10	150
Chloromethane	1	26.4717	0	50	53	12	150
Bromomethane	1	46.304	0	50	93	23	136
Vinyl Chloride	1	37.1344	0	50	74	21	153
Chloroethane	1	44.8522	0	50	90	33	147
Trichlorofluoromethane	1	63.1931	0	50	126	29	156
Ethyl ether	1	39.6606	0	50	79	10	141
Furan	1	34.8052	0	50	70	22	152
1,1,2-Trichloro-1,2,2-trifluoroethane	1	54.3952	0	50	109	32	149
Methylene Chloride	1	45.8858	0	50	92	35	147
Acrolein	1	122.1381	0	200	61	10	149
Acrylonitrile	1	31.0067	0	50	62	20	130
Iodomethane	1	124.125	0	50	248*	10	152
Acetone	1	172.293	0	200	86	22	222
Carbon Disulfide	1	42.6856	0	50	85	18	135
t-Butyl Alcohol	1	183.7702	0	200	92	38	178
n-Hexane	1	45.5322	0	50	91	11	154
Di-isopropyl-ether	1	36.8871	0	50	74	38	150
1,1-Dichloroethene	1	39.014	0	50	78	31	165
Methyl Acetate	1	37.4153	0	50	75	10	237
Methyl-t-butyl ether	1	47.7776	0	50	96	40	151
1,1-Dichloroethane	1	42.9323	0	50	86	41	149
trans-1,2-Dichloroethene	1	54.6268	0	50	109	33	150
Ethyl-t-butyl ether	1	39.3653	0	50	79	22	184
cis-1,2-Dichloroethene	1	40.9714	0	50	82	33	146
Bromochloromethane	1	33.6675	0	50	67	38	143
2,2-Dichloropropane	1	58.2808	0	50	117	38	161
Ethyl acetate	1	30.3194	0	50	61	10	130
1,4-Dioxane	1	2303.604	0	2500	92	35	151
1,1-Dichloropropene	1	58.1484	0	50	116	34	149
Chloroform	1	50.8895	0	50	102	41	145
Cyclohexane	1	45.837	0	50	92	25	148
1,2-Dichloroethane	1	38.7994	0	50	78	37	143
2-Butanone	1	33.0196	0	50	66	21	163
1,1,1-Trichloroethane	1	62.3432	0	50	125	38	149
Carbon Tetrachloride	1	65.6893	0	50	131	33	150
Vinyl Acetate	1	29.5315	0	50	59	10	112
Bromodichloromethane	1	50.153	0	50	100	36	146
Methylcyclohexane	1	66.9634	0	50	134	15	147
Dibromomethane	1	58.7207	0	50	117	32	142
1,2-Dichloropropane	1	41.1785	0	50	82	40	144
Trichloroethene	1	63.472	0	50	127	24	161
Benzene	1	52.1619	0	50	104	38	146
tert-Amyl methyl ether	1	47.009	0	50	94	10	240
Iso-propylacetate	1	32.5591	0	50	65	10	139
Methyl methacrylate	1	35.3688	0	50	71	10	224
Dibromochloromethane	1	53.346	0	50	107	32	140
2-Chloroethylvinylether	1	3.262	0	50	6.5*	10	266
cis-1,3-Dichloropropene	1	49.9613	0	50	100	27	139
trans-1,3-Dichloropropene	1	48.5941	0	50	97	22	141
Ethyl methacrylate	1	32.5358	0	50	65	16	151
1,1,2-Trichloroethane	1	48.7277	0	50	97	32	138
1,2-Dibromoethane	1	50.2363	0	50	100	30	135
1,3-Dichloropropane	1	46.5045	0	50	93	36	136
4-Methyl-2-Pentanone	1	34.9372	0	50	70	23	137
2-Hexanone	1	34.5959	0	50	69	10	149
Tetrachloroethene	1	70.8837	0	50	142*	24	140
Toluene	1	54.1284	0	50	108	31	139
1,1,1,2-Tetrachloroethane	1	56.7411	0	50	113	31	134
Chlorobenzene	1	56.514	0	50	113	24	134

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS109413

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	28.4871	0	50	57	10	140
n-Amyl acetate	1	26.096	0	50	52	10	138
Bromoform	**1**	**49.2694**	**0**	**50**	**99**	**21**	**137**
Ethylbenzene	**1**	**54.3549**	**0**	**50**	**109**	**29**	**137**
1,1,2,2-Tetrachloroethane	**1**	**39.2508**	**0**	**50**	**79**	**18**	**136**
Styrene	**1**	**54.3221**	**0**	**50**	**109**	**14**	**141**
m&p-Xylenes	**1**	**103.3926**	**0**	**100**	**103**	**18**	**152**
o-Xylene	**1**	**52.7568**	**0**	**50**	**106**	**21**	**146**
trans-1,4-Dichloro-2-butene	1	33.8598	0	50	68	11	139
1,3-Dichlorobenzene	**1**	**62.209**	**0**	**50**	**124**	**10**	**134**
1,4-Dichlorobenzene	**1**	**60.5726**	**0**	**50**	**121**	**10**	**132**
1,2-Dichlorobenzene	**1**	**60.1941**	**0**	**50**	**120**	**10**	**129**
Isopropylbenzene	**1**	**59.0532**	**0**	**50**	**118**	**14**	**150**
Cyclohexanone	1	469.7303	0	250	188	10	344
Camphene	1	60.4817	0	50	121	10	137
1,2,3-Trichloropropane	1	39.2695	0	50	79	20	133
2-Chlorotoluene	1	53.7183	0	50	107	13	140
p-Ethyltoluene	1	61.3156	0	50	123	10	138
4-Chlorotoluene	1	51.7147	0	50	103	10	138
n-Propylbenzene	1	56.1876	0	50	112	10	145
Bromobenzene	1	43.2856	0	50	87	14	132
1,3,5-Trimethylbenzene	1	61.8231	0	50	124	12	146
Butyl methacrylate	1	35.3591	0	50	71	10	154
t-Butylbenzene	1	66.7966	0	50	134	10	142
1,2,4-Trimethylbenzene	1	60.8915	0	50	122	10	147
sec-Butylbenzene	1	70.2669	0	50	141	10	146
4-Isopropyltoluene	1	63.7287	0	50	127	10	128
n-Butylbenzene	1	67.8754	0	50	136	10	146
p-Diethylbenzene	1	75.0253	0	50	150*	10	142
1,2,4,5-Tetramethylbenzene	1	57.7214	0	50	115	10	130
1,2-Dibromo-3-Chloropropane	**1**	**58.8871**	**0**	**50**	**118**	**16**	**126**
Camphor	1	624.8703	0				
Hexachlorobutadiene	1	76.0733	0	50	152*	10	123
1,2,4-Trichlorobenzene	**1**	**69.5859**	**0**	**50**	**139***	**10**	**128**
1,2,3-Trichlorobenzene	**1**	**64.89**	**0**	**50**	**130***	**10**	**123**
Naphthalene	1	52.2246	4.1204	50	96	10	140

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS109413

	Data File	Sample ID:	Analysis Date
Spike or Dup:	1M174861.D	AD38501-004(MSD)	6/14/2023 1:59:00 PM
Non Spike(If applicable):	1M174862.D	AD38501-004	6/14/2023 2:20:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	42.1332	0	50	84	10	168
Dichlorodifluoromethane	1	26.9665	0	50	54	10	150
Chloromethane	1	26.6636	0	50	53	12	150
Bromomethane	1	48.891	0	50	98	23	136
Vinyl Chloride	1	39.4502	0	50	79	21	153
Chloroethane	1	47.3126	0	50	95	33	147
Trichlorofluoromethane	1	68.7175	0	50	137	29	156
Ethyl ether	1	40.769	0	50	82	10	141
Furan	1	35.7494	0	50	71	22	152
1,1,2-Trichloro-1,2,2-trifluoroethane	1	62.8573	0	50	126	32	149
Methylene Chloride	1	49.3086	0	50	99	35	147
Acrolein	1	146.9195	0	200	73	10	149
Acrylonitrile	1	34.0932	0	50	68	20	130
Iodomethane	1	126.817	0	50	254*	10	152
Acetone	1	173.006	0	200	87	22	222
Carbon Disulfide	1	44.3406	0	50	89	18	135
t-Butyl Alcohol	1	234.3607	0	200	117	38	178
n-Hexane	1	47.8872	0	50	96	11	154
Di-isopropyl-ether	1	39.7527	0	50	80	38	150
1,1-Dichloroethene	1	42.4172	0	50	85	31	165
Methyl Acetate	1	45.1516	0	50	90	10	237
Methyl-t-butyl ether	1	51.7571	0	50	104	40	151
1,1-Dichloroethane	1	46.0753	0	50	92	41	149
trans-1,2-Dichloroethene	1	58.7277	0	50	117	33	150
Ethyl-t-butyl ether	1	42.4215	0	50	85	22	184
cis-1,2-Dichloroethene	1	44.4442	0	50	89	33	146
Bromochloromethane	1	37.0148	0	50	74	38	143
2,2-Dichloropropane	1	62.9716	0	50	126	38	161
Ethyl acetate	1	31.8367	0	50	64	10	130
1,4-Dioxane	1	3222.387	0	2500	129	35	151
1,1-Dichloropropene	1	62.0208	0	50	124	34	149
Chloroform	1	54.6905	0	50	109	41	145
Cyclohexane	1	47.6001	0	50	95	25	148
1,2-Dichloroethane	1	41.9874	0	50	84	37	143
2-Butanone	1	38.0586	0	50	76	21	163
1,1,1-Trichloroethane	1	67.2058	0	50	134	38	149
Carbon Tetrachloride	1	70.8617	0	50	142	33	150
Vinyl Acetate	1	29.6313	0	50	59	10	112
Bromodichloromethane	1	54.5732	0	50	109	36	146
Methylcyclohexane	1	70.1284	0	50	140	15	147
Dibromomethane	1	62.6277	0	50	125	32	144
1,2-Dichloropropane	1	44.1909	0	50	88	40	144
Trichloroethene	1	66.7772	0	50	134	24	161
Benzene	1	56.0293	0	50	112	38	146
tert-Amyl methyl ether	1	51.6322	0	50	103	10	240
Iso-propylacetate	1	35.5967	0	50	71	10	139
Methyl methacrylate	1	38.0265	0	50	76	10	224
Dibromochloromethane	1	57.6704	0	50	115	32	140
2-Chloroethylvinylether	1	0	0	50	0*	10	266
cis-1,3-Dichloropropene	1	54.8436	0	50	110	27	139
trans-1,3-Dichloropropene	1	52.2941	0	50	105	22	141
Ethyl methacrylate	1	35.2508	0	50	71	16	151
1,1,2-Trichloroethane	1	53.5866	0	50	107	32	138
1,2-Dibromoethane	1	55.0365	0	50	110	30	135
1,3-Dichloropropane	1	49.5619	0	50	99	36	136
4-Methyl-2-Pentanone	1	38.2579	0	50	77	23	137
2-Hexanone	1	37.9777	0	50	76	10	149
Tetrachloroethene	1	74.1192	0	50	148*	24	140
Toluene	1	57.6463	0	50	115	31	139
1,1,1,2-Tetrachloroethane	1	60.8789	0	50	122	31	134
Chlorobenzene	1	60.2594	0	50	121	24	134

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS109413

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	30.6631	0	50	61	10	140
n-Amyl acetate	1	25.6315	0	50	51	10	138
Bromoform	1	55.1351	0	50	110	21	137
Ethylbenzene	1	59.3013	0	50	119	29	137
1,1,2,2-Tetrachloroethane	1	44.0797	0	50	88	18	136
Styrene	1	60.6201	0	50	121	14	141
m&p-Xylenes	1	115.2682	0	100	115	18	152
o-Xylene	1	58.7371	0	50	117	21	146
trans-1,4-Dichloro-2-butene	1	37.6658	0	50	75	11	139
1,3-Dichlorobenzene	1	66.0834	0	50	132	10	134
1,4-Dichlorobenzene	1	64.2256	0	50	128	10	132
1,2-Dichlorobenzene	1	62.2247	0	50	124	10	129
Isopropylbenzene	1	64.0227	0	50	128	14	150
Cyclohexanone	1	556.7953	0	250	223	10	344
Camphene	1	63.3056	0	50	127	10	137
1,2,3-Trichloropropane	1	44.8105	0	50	90	20	133
2-Chlorotoluene	1	56.7691	0	50	114	13	140
p-Ethyltoluene	1	63.2963	0	50	127	10	138
4-Chlorotoluene	1	55.9021	0	50	112	10	138
n-Propylbenzene	1	60.0353	0	50	120	10	145
Bromobenzene	1	48.1029	0	50	96	14	132
1,3,5-Trimethylbenzene	1	66.5398	0	50	133	12	146
Butyl methacrylate	1	37.3318	0	50	75	10	154
t-Butylbenzene	1	69.4536	0	50	139	10	142
1,2,4-Trimethylbenzene	1	63.7126	0	50	127	10	147
sec-Butylbenzene	1	72.6765	0	50	145	10	146
4-Isopropyltoluene	1	65.5725	0	50	131*	10	128
n-Butylbenzene	1	67.5962	0	50	135	10	146
p-Diethylbenzene	1	76.0106	0	50	152*	10	142
1,2,4,5-Tetramethylbenzene	1	59.8431	0	50	120	10	130
1,2-Dibromo-3-Chloropropane	1	62.467	0	50	125	16	126
~~Camphor~~	~~1~~	~~818.8329~~	~~0~~				
Hexachlorobutadiene	1	70.8175	0	50	142*	10	123
1,2,4-Trichlorobenzene	1	68.8286	0	50	138*	10	128
1,2,3-Trichlorobenzene	1	64.4447	0	50	129*	10	123
Naphthalene	1	55.0185	4.1204	50	102	10	140

MP 06128

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS109413

	Data File	Sample ID:	Analysis Date
Spike or Dup:	1M174861.D	AD38501-004(MSD)	6/14/2023 1:59:00 PM
Duplicate(If applicable):	1M174860.D	AD38501-004(MS)	6/14/2023 1:38:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	42.1332	54.301	25	56
Dichlorodifluoromethane	**1**	**26.9665**	**26.7879**	**0.66**	**60**
Chloromethane	**1**	**26.6636**	**26.4717**	**0.72**	**49**
Bromomethane	**1**	**48.891**	**46.304**	**5.4**	**38**
Vinyl Chloride	**1**	**39.4502**	**37.1344**	**6**	**47**
Chloroethane	**1**	**47.3126**	**44.8522**	**5.3**	**39**
Trichlorofluoromethane	**1**	**68.7175**	**63.1931**	**8.4**	**43**
Ethyl ether	1	40.769	39.6606	2.8	106
Furan	1	35.7494	34.8052	2.7	56
1,1,2-Trichloro-1,2,2-trifluoroethane	**1**	**62.8573**	**54.3952**	**14**	**45**
Methylene Chloride	**1**	**49.3086**	**45.8858**	**7.2**	**35**
Acrolein	1	146.9195	122.1381	18	129
Acrylonitrile	1	34.0932	31.0067	9.5	40
Iodomethane	1	126.817	124.125	2.1	46
Acetone	**1**	**173.006**	**172.293**	**0.41**	**41**
Carbon Disulfide	**1**	**44.3406**	**42.6856**	**3.8**	**44**
t-Butyl Alcohol	1	234.3607	183.7702	24	38
n-Hexane	1	47.8872	45.5322	5	52
Di-isopropyl-ether	1	39.7527	36.8871	7.5	36
1,1-Dichloroethene	**1**	**42.4172**	**39.014**	**8.4**	**42**
Methyl Acetate	**1**	**45.1516**	**37.4153**	**19**	**43**
Methyl-t-butyl ether	**1**	**51.7571**	**47.7776**	**8**	**34**
1,1-Dichloroethane	**1**	**46.0753**	**42.9323**	**7.1**	**37**
trans-1,2-Dichloroethene	**1**	**58.7277**	**54.6268**	**7.2**	**40**
Ethyl-t-butyl ether	1	42.4215	39.3653	7.5	55
cis-1,2-Dichloroethene	**1**	**44.4442**	**40.9714**	**8.1**	**36**
Bromochloromethane	**1**	**37.0148**	**33.6675**	**9.5**	**29**
2,2-Dichloropropane	1	62.9716	58.2808	7.7	38
Ethyl acetate	1	31.8367	30.3194	4.9	106
1,4-Dioxane	**1**	**3222.387**	**2303.604**	**33**	**38**
1,1-Dichloropropene	1	62.0208	58.1484	6.4	39
Chloroform	**1**	**54.6905**	**50.8895**	**7.2**	**31**
Cyclohexane	**1**	**47.6001**	**45.837**	**3.8**	**44**
1,2-Dichloroethane	**1**	**41.9874**	**38.7994**	**7.9**	**29**
2-Butanone	**1**	**38.0586**	**33.0196**	**14**	**46**
1,1,1-Trichloroethane	**1**	**67.2058**	**62.3432**	**7.5**	**36**
Carbon Tetrachloride	**1**	**70.8617**	**65.6893**	**7.6**	**37**
Vinyl Acetate	1	29.6313	29.5315	0.34	44
Bromodichloromethane	**1**	**54.5732**	**50.153**	**8.4**	**32**
Methylcyclohexane	**1**	**70.1284**	**66.9634**	**4.6**	**45**
Dibromomethane	1	62.6277	58.7207	6.4	30
1,2-Dichloropropane	**1**	**44.1909**	**41.1785**	**7.1**	**31**
Trichloroethene	**1**	**66.7772**	**63.472**	**5.1**	**36**
Benzene	**1**	**56.0293**	**52.1619**	**7.1**	**33**
tert-Amyl methyl ether	1	51.6322	47.009	9.4	29
Iso-propylacetate	1	35.5967	32.5591	8.9	117
Methyl methacrylate	1	38.0265	35.3688	7.2	68
Dibromochloromethane	**1**	**57.6704**	**53.346**	**7.8**	**35**
2-Chloroethylvinylether	1	0	3.262	200*	167
cis-1,3-Dichloropropene	**1**	**54.8436**	**49.9613**	**9.3**	**36**
trans-1,3-Dichloropropene	**1**	**52.2941**	**48.5941**	**7.3**	**37**
Ethyl methacrylate	1	35.2508	32.5358	8	46
1,1,2-Trichloroethane	**1**	**53.5866**	**48.7277**	**9.5**	**41**
1,2-Dibromoethane	**1**	**55.0365**	**50.2363**	**9.1**	**34**
1,3-Dichloropropane	1	49.5619	46.5045	6.4	33
4-Methyl-2-Pentanone	**1**	**38.2579**	**34.9372**	**9.1**	**57**
2-Hexanone	**1**	**37.9777**	**34.5959**	**9.3**	**63**
Tetrachloroethene	**1**	**74.1192**	**70.8837**	**4.5**	**40**
Toluene	**1**	**57.6463**	**54.1284**	**6.3**	**38**
1,1,1,2-Tetrachloroethane	1	60.8789	56.7411	7	35
Chlorobenzene	**1**	**60.2594**	**56.514**	**6.4**	**38**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: MBS109413

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	30.6631	28.4871	7.4	134
n-Amyl acetate	1	25.6315	26.096	1.8	166
Bromoform	1	**55.1351**	**49.2694**	11	37
Ethylbenzene	1	**59.3013**	**54.3549**	**8.7**	**36**
1,1,2,2-Tetrachloroethane	1	**44.0797**	**39.2508**	12	**40**
Styrene	1	**60.6201**	**54.3221**	11	**45**
m&p-Xylenes	1	**115.2682**	**103.3926**	11	**44**
o-Xylene	1	**58.7371**	**52.7568**	11	**43**
trans-1,4-Dichloro-2-butene	1	37.6658	33.8598	11	39
1,3-Dichlorobenzene	1	**66.0834**	**62.209**	6	**46**
1,4-Dichlorobenzene	1	**64.2256**	**60.5726**	**5.9**	**47**
1,2-Dichlorobenzene	1	**62.2247**	**60.1941**	**3.3**	**47**
Isopropylbenzene	1	**64.0227**	**59.0532**	**8.1**	**46**
Cyclohexanone	1	556.7953	469.7303	17	63
Camphene	1	63.3056	60.4817	4.6	54
1,2,3-Trichloropropane	1	44.8105	39.2695	13	38
2-Chlorotoluene	1	56.7691	53.7183	5.5	47
p-Ethyltoluene	1	63.2963	61.3156	3.2	58
4-Chlorotoluene	1	55.9021	51.7147	7.8	48
n-Propylbenzene	1	60.0353	56.1876	6.6	46
Bromobenzene	1	48.1029	43.2856	11	41
1,3,5-Trimethylbenzene	1	66.5398	61.8231	7.3	45
Butyl methacrylate	1	37.3318	35.3591	5.4	83
t-Butylbenzene	1	69.4536	66.7966	3.9	46
1,2,4-Trimethylbenzene	1	63.7126	60.8915	4.5	49
sec-Butylbenzene	1	72.6765	70.2669	3.4	49
4-Isopropyltoluene	1	65.5725	63.7287	2.9	51
n-Butylbenzene	1	67.5962	67.8754	0.41	55
p-Diethylbenzene	1	76.0106	75.0253	1.3	55
1,2,4,5-Tetramethylbenzene	1	59.8431	57.7214	3.6	59
1,2-Dibromo-3-Chloropropane	1	**62.467**	**58.8871**	**5.9**	**43**
~~Camphor~~	~~1~~	~~818.8329~~	~~624.8703~~	~~27~~	MS&MSD
Hexachlorobutadiene	1	70.8175	76.0733	7.2	56
1,2,4-Trichlorobenzene	1	**68.8286**	**69.5859**	1.1	**58**
1,2,3-Trichlorobenzene	1	**64.4447**	**64.89**	**0.69**	**60**
Naphthalene	1	55.0185	52.2246	5.2	70

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Quantitation Report (QT Reviewed)

SampleID : AD38501-004(MS) Operator : sg Qt Meth : 1M_S0518s.M
Data File: 1M174860.D Sam Mult : 1 Vial# : 13 Qt On : 06/14/23 15:51
Acq On : 06/14/23 13:38 Misc : S,5G!7 Qt Upd On: 05/19/23 17:55

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-14-23\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.161	96	1075853	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.878	117	1064962	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.187	152	754338	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.737	111	314730	32.61	ug/l	0.00
Spiked Amount 30.000			Recovery = 108.70%			
39) 1,2-Dichloroethane-d4	4.959	67	149476	27.50	ug/l	0.00
Spiked Amount 30.000			Recovery = 91.67%			
66) Toluene-d8	6.068	98	1219671	30.21	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.70%			
76) Bromofluorobenzene	7.524	174	526856	29.47	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.23%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.692	51	261103	54.3010	ug/l	50
6) Dichlorodifluoromethane	1.679	85	83600	26.7879	ug/l	99
7) Chloromethane	1.843	50	114461m	26.4717	ug/l	
8) Bromomethane	2.222	94	154994	46.3040	ug/l	99
9) Vinyl Chloride	1.930	62	167704	37.1344	ug/l	99
10) Chloroethane	2.303	64	138047	44.8522	ug/l	98
11) Trichlorofluoromethane	2.525	101	416018	63.1931	ug/l	98
12) Ethyl ether	2.753	59	182924	39.6606	ug/l	96
13) Furan	2.792	39	271832	34.8052	ug/l	82
14) 1,1,2-Trichloro-1,2,2-...	2.949	101	168295	54.3952	ug/l	97
15) Methylene Chloride	3.361	84	198265	45.8858	ug/l	97
16) Acrolein	2.865	56	105822	122.1381	ug/l	98
17) Acrylonitrile	3.560	53	50109	31.0067	ug/l	87
18) Iodomethane	3.100	142	241843	124.1250	ug/l	100
19) Acetone	2.994	43	237743	172.2930	ug/l	91
20) Carbon Disulfide	3.168	76	487873	42.6856	ug/l	100
21) t-Butyl Alcohol	3.431	59	103107	183.7702	ug/l	79
22) n-Hexane	3.827	57	203528	45.5322	ug/l	93
23) Di-isopropyl-ether	3.997	45	429196	36.8871	ug/l	91
24) 1,1-Dichloroethene	2.959	61	245552	39.0140	ug/l	99
25) Methyl Acetate	3.267	43	104679	37.4153	ug/l	100
26) Methyl-t-butyl ether	3.592	73	500775	47.7776	ug/l	94
27) 1,1-Dichloroethane	3.959	63	339772	42.9323	ug/l	97
28) trans-1,2-Dichloroethene	3.599	96	213711	54.6268	ug/l	82
29) Ethyl-t-butyl ether	4.290	59	515103	39.3653	ug/l	97
30) cis-1,2-Dichloroethene	4.415	61	333028	40.9714	ug/l	98
31) Bromochloromethane	4.586	49	130084	33.6675	ug/l	70
32) 2,2-Dichloropropane	4.422	77	352788	58.2808	ug/l	98
33) Ethyl acetate	4.447	43	133264	30.3194	ug/l	89
34) 1,4-Dioxane	5.579	88	122238	2303.6041	ug/l	83
35) 1,1-Dichloropropene	4.872	75	306183	58.1484	ug/l	96
36) Chloroform	4.631	83	421202	50.8895	ug/l	98
38) Cyclohexane	4.814	56	251675	45.8370	ug/l	97
40) 1,2-Dichloroethane	5.004	62	289940	38.7994	ug/l	100
41) 2-Butanone	4.415	43	57266	33.0196	ug/l	83
42) 1,1,1-Trichloroethane	4.769	97	408502	62.3432	ug/l	98
43) Carbon Tetrachloride	4.878	117	338988	65.6893	ug/l	97
44) Vinyl Acetate	3.991	43	390005	29.5315	ug/l	100
45) Bromodichloromethane	5.656	83	316113	50.1530	ug/l	95
46) Methylcyclohexane	5.499	83	367816	66.9634	ug/l	94
47) Dibromomethane	5.579	174	159427	58.7207	ug/l	95
48) 1,2-Dichloropropane	5.508	63	192980	41.1785	ug/l	94
49) Trichloroethene	5.377	130	257876	63.4720	ug/l	96
50) Benzene	5.004	78	833898	52.1619	ug/l	100
51) tert-Amyl methyl ether	5.052	73	515975	47.0090	ug/l	88
53) Iso-propylacetate	5.007	43	281825	32.5591	ug/l	83
54) Methyl methacrylate	5.544	41	150959m	35.3688	ug/l	
55) Dibromochloromethane	6.550	129	243650	53.3460	ug/l	96
56) 2-Chloroethylvinylether	5.785	63	551m	3.2620	ug/l	
57) cis-1,3-Dichloropropene	5.907	75	350606	49.9613	ug/l	97
58) trans-1,3-Dichloropropene	6.206	75	321433	48.5941	ug/l	97
59) Ethyl methacrylate	6.235	41	134252	32.5358	ug/l	75
60) 1,1,2-Trichloroethane	6.319	97	197920	48.7277	ug/l	94
61) 1,2-Dibromoethane	6.627	107	211023	50.2363	ug/l	100
62) 1,3-Dichloropropane	6.415	76	325850	46.5045	ug/l	99
63) 4-Methyl-2-Pentanone	5.981	43	140497	34.9372	ug/l	83
64) 2-Hexanone	6.438	43	102994	34.5959	ug/l	90
65) Tetrachloroethene	6.418	164	217628	70.8837	ug/l	99
67) Toluene	6.103	92	598121	54.1284	ug/l	98

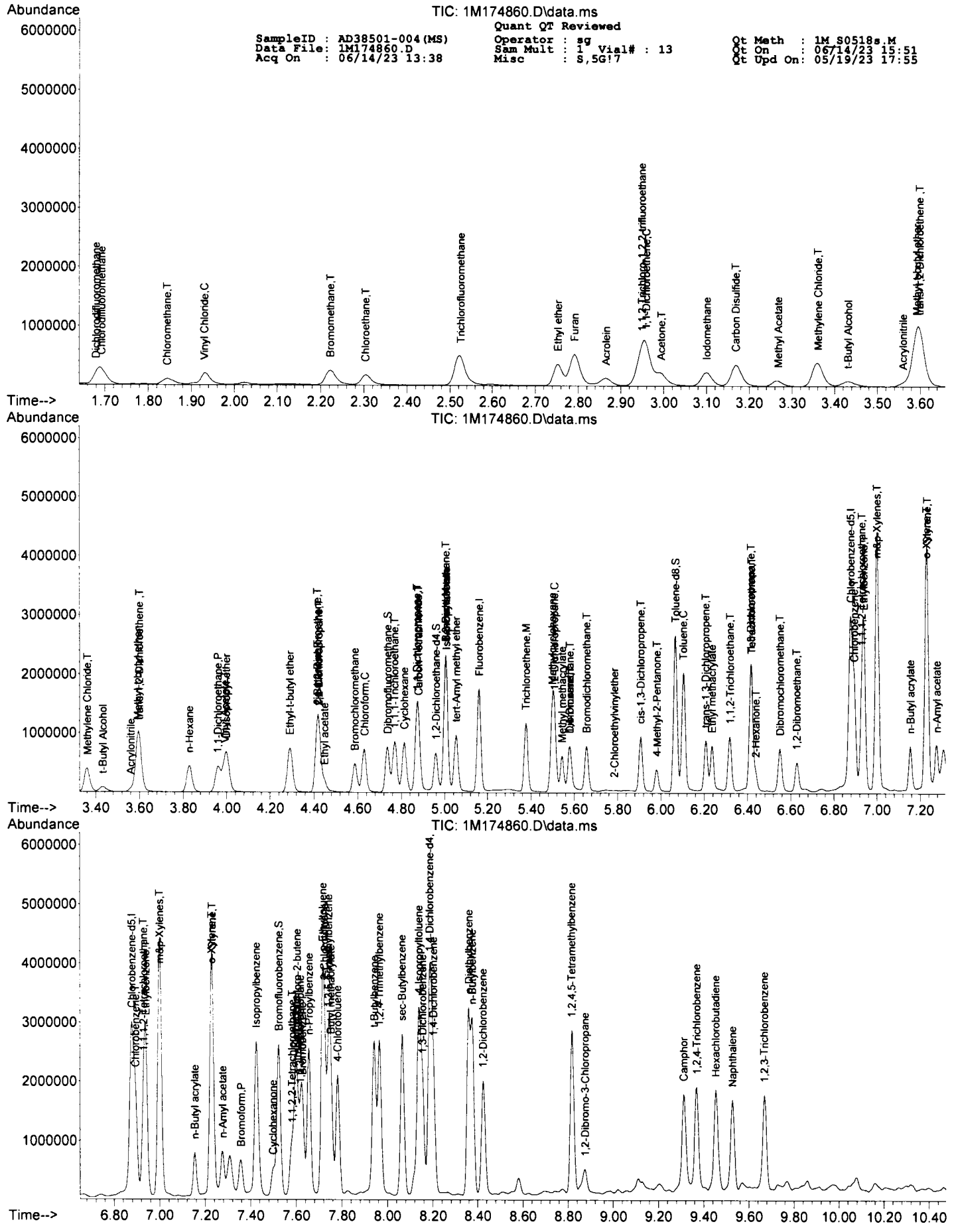
Quantitation Report (QT Reviewed)

SampleID : AD38501-004(MS) Operator : sg Qt Meth : 1M_S0518s.M
Data File: 1M174860.D Sam Mult : 1 Vial# : 13 Qt On : 06/14/23 15:51
Acq On : 06/14/23 13:38 Misc : S,5G!7 Qt Upd On: 05/19/23 17:55

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-14-23\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.930	133	229697	56.7411	ug/l	98
69)	Chlorobenzene	6.894	112	674588	56.5140	ug/l	99
71)	n-Butyl acrylate	7.155	55	296239	28.4871	ug/l	98
72)	n-Amyl acetate	7.277	43	215126	26.0960	ug/l	96
73)	Bromoform	7.357	173	180003	49.2694	ug/l	99
74)	Ethylbenzene	6.939	106	332728	54.3549	ug/l	90
75)	1,1,2,2-Tetrachloroethane	7.582	83	257952	39.2508	ug/l	99
77)	Styrene	7.232	104	769921	54.3221	ug/l	91
78)	m&p-Xylenes	7.000	106	923016	103.3926	ug/l	93
79)	o-Xylene	7.229	106	460867	52.7568	ug/l	95
80)	trans-1,4-Dichloro-2-b...	7.605	53	104345	33.8598	ug/l	16
81)	1,3-Dichlorobenzene	8.155	146	640858	62.2090	ug/l	93
82)	1,4-Dichlorobenzene	8.203	146	637639	60.5726	ug/l	98
83)	1,2-Dichlorobenzene	8.425	146	616009	60.1941	ug/l	93
84)	Isopropylbenzene	7.425	105	1137857	59.0532	ug/l	97
85)	Cyclohexanone	7.499	55	136336	469.7303	ug/l	91
86)	Camphene	7.598	93	460248	60.4817	ug/l	94
87)	1,2,3-Trichloropropane	7.618	75	307177	39.2695	ug/l	60
88)	2-Chlorotoluene	7.724	91	767347	53.7183	ug/l	94
89)	p-Ethyltoluene	7.717	105	1329124	61.3156	ug/l	97
90)	4-Chlorotoluene	7.782	91	740826	51.7147	ug/l	95
91)	n-Propylbenzene	7.656	91	1397404	56.1876	ug/l	92
92)	Bromobenzene	7.627	77	662282m	43.2856	ug/l	
93)	1,3,5-Trimethylbenzene	7.743	105	1021574	61.8231	ug/l	95
94)	Butyl methacrylate	7.753	41	228704m	35.3591	ug/l	
95)	t-Butylbenzene	7.942	119	1084395	66.7966	ug/l	91
96)	1,2,4-Trimethylbenzene	7.965	105	1076500	60.8915	ug/l	96
97)	sec-Butylbenzene	8.065	105	1406834	70.2669	ug/l	93
98)	4-Isopropyltoluene	8.139	119	1231329	63.7287	ug/l	97
99)	n-Butylbenzene	8.377	91	1352870	67.8754	ug/l	93
100)	p-Diethylbenzene	8.360	119	775058	75.0253	ug/l	79
101)	1,2,4,5-Tetramethylben...	8.817	119	1095890	57.7214	ug/l	94
102)	1,2-Dibromo-3-Chloropr...	8.875	157	75582	58.8871	ug/l	57
103)	Camphor	9.312	95	305996	624.8703	ug/l	91
104)	Hexachlorobutadiene	9.454	225	246421	76.0733	ug/l	99
105)	1,2,4-Trichlorobenzene	9.370	180	435829	69.5859	ug/l	98
106)	1,2,3-Trichlorobenzene	9.669	180	395323	64.8900	ug/l	99
107)	Naphthalene	9.528	128	900815	52.2246	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 1M174860.D\data.ms
Quant QT Reviewed
SampleID : AD38501-004(MS)
Data File: 1M174860.D
Acq On : 06/14/23 13:38
Operator : sg
Sam Mult : 1 Vial# : 13
Misc : S,5G!7
Qt Meth : 1M_S0518s.M
Qt On : 06/14/23 15:51
Qt Upd On: 05/19/23 17:55
Abundance
Time-->

Quantitation Report (QT Reviewed)

SampleID : AD38501-004(MSD) Operator : sg Qt Meth : 1M_S0518s.M
Data File: 1M174861.D Sam Mult : 1 Vial# : 14 Qt On : 06/14/23 15:51
Acq On : 06/14/23 13:59 Misc : S,5G!8 Qt Upd On: 05/19/23 17:55

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-14-23\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.161	96	1057480	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.878	117	1040230	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.187	152	686646	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.737	111	309698	32.64	ug/l	0.00
Spiked Amount 30.000			Recovery = 108.80%			
39) 1,2-Dichloroethane-d4	4.958	67	146937	27.50	ug/l	0.00
Spiked Amount 30.000			Recovery = 91.67%			
66) Toluene-d8	6.068	98	1195629	30.32	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.07%			
76) Bromofluorobenzene	7.524	174	483114	29.69	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.97%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.688	51	199135	42.1332	ug/l	61
6) Dichlorodifluoromethane	1.679	85	82720	26.9665	ug/l	95
7) Chloromethane	1.846	50	113322	26.6636	ug/l	100
8) Bromomethane	2.222	94	160859	48.8910	ug/l	97
9) Vinyl Chloride	1.933	62	175120	39.4502	ug/l	100
10) Chloroethane	2.306	64	143133	47.3126	ug/l	95
11) Trichlorofluoromethane	2.524	101	444661	68.7175	ug/l	97
12) Ethyl ether	2.753	59	184825	40.7690	ug/l	97
13) Furan	2.791	39	274438	35.7494	ug/l	85
14) 1,1,2-Trichloro-1,2,2-...	2.946	101	191155	62.8573	ug/l	94
15) Methylene Chloride	3.357	84	209416	49.3086	ug/l	94
16) Acrolein	2.868	56	125119	146.9195	ug/l	93
17) Acrylonitrile	3.560	53	54156	34.0932	ug/l	80
18) Iodomethane	3.100	142	243633	126.8170	ug/l	99
19) Acetone	2.991	43	234629	173.0060	ug/l	93
20) Carbon Disulfide	3.167	76	498134	44.3406	ug/l	100
21) t-Butyl Alcohol	3.431	59	129246	234.3607	ug/l	81
22) n-Hexane	3.827	57	210399	47.8872	ug/l	91
23) Di-isopropyl-ether	3.997	45	454640	39.7527	ug/l	92
24) 1,1-Dichloroethene	2.958	61	262412	42.4172	ug/l	99
25) Methyl Acetate	3.267	43	124166	45.1516	ug/l	100
26) Methyl-t-butyl ether	3.595	73	533221	51.7571	ug/l	93
27) 1,1-Dichloroethane	3.958	63	358419	46.0753	ug/l	96
28) trans-1,2-Dichloroethene	3.598	96	225831	58.7277	ug/l	80
29) Ethyl-t-butyl ether	4.293	59	545615	42.4215	ug/l	97
30) cis-1,2-Dichloroethene	4.415	61	355087	44.4442	ug/l	99
31) Bromochloromethane	4.585	49	140575	37.0148	ug/l	75
32) 2,2-Dichloropropane	4.421	77	374673	62.9716	ug/l	97
33) Ethyl acetate	4.447	43	137543	31.8367	ug/l	89
34) 1,4-Dioxane	5.582	88	168072	3222.3874	ug/l	84
35) 1,1-Dichloropropene	4.872	75	320996	62.0208	ug/l	95
36) Chloroform	4.630	83	444932	54.6905	ug/l	100
38) Cyclohexane	4.814	56	256892	47.6001	ug/l	96
40) 1,2-Dichloroethane	5.003	62	308405	41.9874	ug/l	97
41) 2-Butanone	4.418	43	64878	38.0586	ug/l	86
42) 1,1,1-Trichloroethane	4.769	97	432844	67.2058	ug/l	100
43) Carbon Tetrachloride	4.878	117	359435	70.8617	ug/l	97
44) Vinyl Acetate	3.994	43	384641	29.6313	ug/l	100
45) Bromodichloromethane	5.656	83	338099	54.5732	ug/l	98
46) Methylcyclohexane	5.499	83	378622	70.1284	ug/l	95
47) Dibromomethane	5.579	174	167131	62.6277	ug/l	97
48) 1,2-Dichloropropane	5.508	63	203561	44.1909	ug/l	97
49) Trichloroethene	5.376	130	266671	66.7772	ug/l	96
50) Benzene	5.003	78	880428	56.0293	ug/l	100
51) tert-Amyl methyl ether	5.052	73	557042	51.6322	ug/l	88
53) Iso-propylacetate	5.007	43	300962	35.5967	ug/l	82
54) Methyl methacrylate	5.544	41	158533m	38.0265	ug/l	
55) Dibromochloromethane	6.550	129	257284	57.6704	ug/l	99
56) 2-Chloroethylvinylether	5.772	63	246m	1.5035	ug/l	
57) cis-1,3-Dichloropropene	5.907	75	375930	54.8436	ug/l	96
58) trans-1,3-Dichloropropene	6.209	75	337874	52.2941	ug/l	98
59) Ethyl methacrylate	6.235	41	142077	35.2508	ug/l	78
60) 1,1,2-Trichloroethane	6.318	97	212601	53.5866	ug/l	95
61) 1,2-Dibromoethane	6.627	107	225818	55.0365	ug/l	99
62) 1,3-Dichloropropane	6.415	76	339208	49.5619	ug/l	98
63) 4-Methyl-2-Pentanone	5.981	43	150278	38.2579	ug/l	84
64) 2-Hexanone	6.437	43	110436	37.9777	ug/l	94
65) Tetrachloroethene	6.418	164	222277	74.1192	ug/l	99
67) Toluene	6.106	92	622201	57.6463	ug/l	99

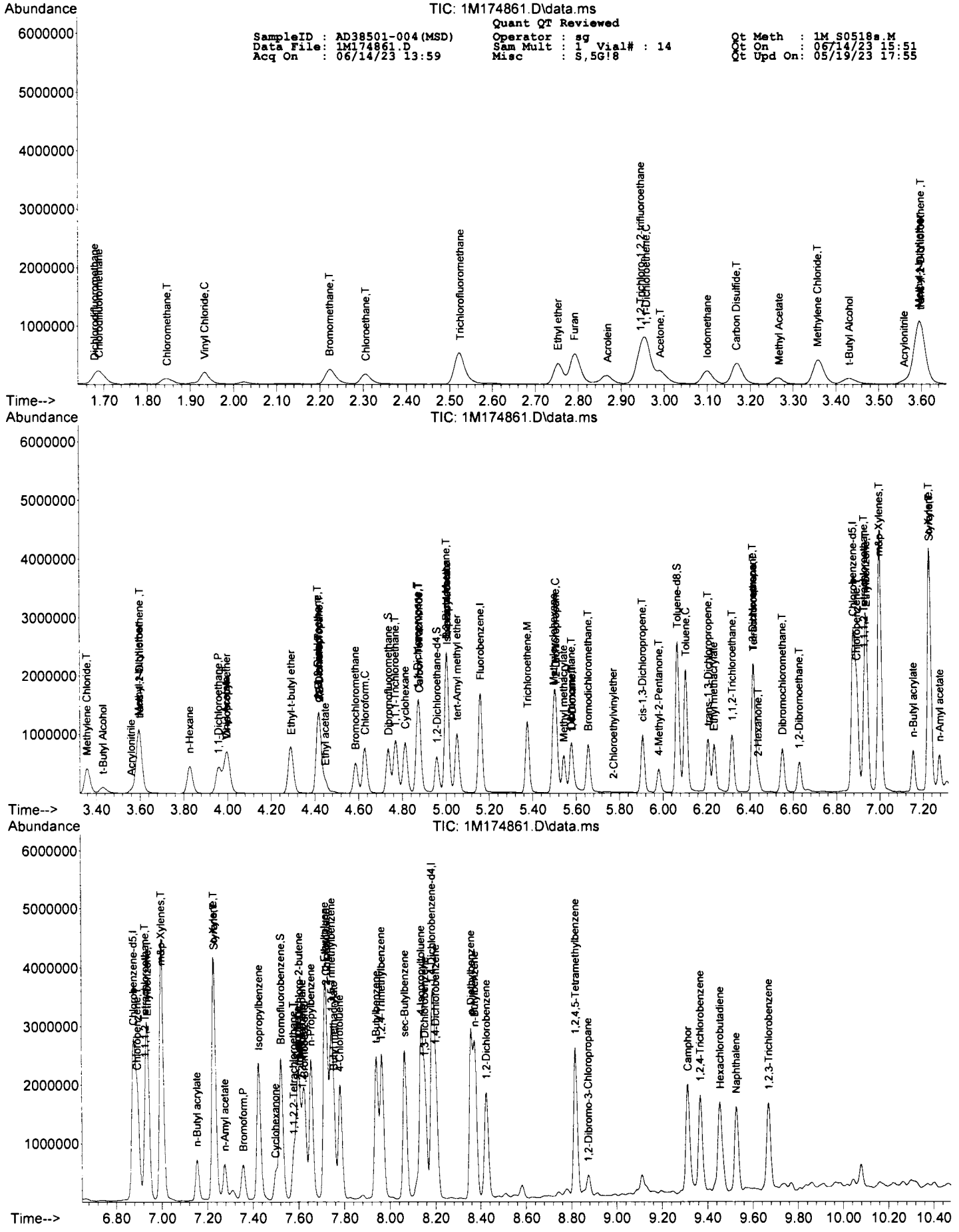
Quantitation Report (QT Reviewed)

SampleID : AD38501-004(MSD) Operator : sg Qt Meth : 1M_S0518s.M
Data File: 1M174861.D Sam Mult : 1 Vial# : 14 Qt On : 06/14/23 15:51
Acq On : 06/14/23 13:59 Misc : S,5G!8 Qt Upd On: 05/19/23 17:55

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-14-23\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.929	133	240724	60.8789	ug/l	97
69)	Chlorobenzene	6.894	112	702591	60.2594	ug/l	98
71)	n-Butyl acrylate	7.154	55	290253	30.6631	ug/l	98
72)	n-Amyl acetate	7.277	43	192336	25.6315	ug/l	97
73)	Bromoform	7.357	173	183357	55.1351	ug/l	97
74)	Ethylbenzene	6.939	106	330432	59.3013	ug/l	91
75)	1,1,2,2-Tetrachloroethane	7.579	83	263691	44.0797	ug/l	97
77)	Styrene	7.232	104	782084	60.6201	ug/l	91
78)	m&p-Xylenes	7.000	106	936691	115.2682	ug/l	93
79)	o-Xylene	7.228	106	467064	58.7371	ug/l	97
80)	trans-1,4-Dichloro-2-b...	7.605	53	105658	37.6658	ug/l	14
81)	1,3-Dichlorobenzene	8.154	146	619681	66.0834	ug/l	92
82)	1,4-Dichlorobenzene	8.203	146	615423	64.2256	ug/l	98
83)	1,2-Dichlorobenzene	8.428	146	579646	62.2247	ug/l	94
84)	Isopropylbenzene	7.428	105	1122910	64.0227	ug/l	97
85)	Cyclohexanone	7.498	55	147104	556.7953	ug/l	94
86)	Camphene	7.598	93	438508	63.3056	ug/l	96
87)	1,2,3-Trichloropropane	7.617	75	319065	44.8105	ug/l	61
88)	2-Chlorotoluene	7.724	91	738156	56.7691	ug/l	94
89)	p-Ethyltoluene	7.717	105	1248934	63.2963	ug/l	98
90)	4-Chlorotoluene	7.781	91	728950	55.9021	ug/l	95
91)	n-Propylbenzene	7.656	91	1359112	60.0353	ug/l	93
92)	Bromobenzene	7.627	77	669943m	48.1029	ug/l	
93)	1,3,5-Trimethylbenzene	7.746	105	1000846	66.5398	ug/l	95
94)	Butyl methacrylate	7.756	41	219795m	37.3318	ug/l	
95)	t-Butylbenzene	7.942	119	1026349	69.4536	ug/l	92
96)	1,2,4-Trimethylbenzene	7.965	105	1025297	63.7126	ug/l	97
97)	sec-Butylbenzene	8.068	105	1324504	72.6765	ug/l	94
98)	4-Isopropyltoluene	8.138	119	1153262	65.5725	ug/l	96
99)	n-Butylbenzene	8.376	91	1226402	67.5962	ug/l	92
100)	p-Diethylbenzene	8.360	119	714772	76.0106	ug/l	78
101)	1,2,4,5-Tetramethylben...	8.820	119	1029521	59.8431	ug/l	95
102)	1,2-Dibromo-3-Chloropr...	8.875	157	72982	62.4670	ug/l	61
103)	Camphor	9.315	95	364996	818.8329	ug/l	90
104)	Hexachlorobutadiene	9.457	225	208811	70.8175	ug/l	100
105)	1,2,4-Trichlorobenzene	9.370	180	392402	68.8286	ug/l	98
106)	1,2,3-Trichlorobenzene	9.672	180	357378	64.4447	ug/l	98
107)	Naphthalene	9.527	128	863846	55.0185	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
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Quant QT Reviewed
SampleID : AD38501-004(MSD)
Data File: 1M174861.D
Acq On : 06/14/23 13:59
Operator : sg
Sam Mult : 1 Vial# : 14
Misc : S,5G!8
Qt Meth : 1M_S0518s.M
Qt On : 06/14/23 15:51
Qt Upd On: 05/19/23 17:55
Chloromethane,T
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
Time-->
Abundance
TIC: 1M174861.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
n-Butyl acrylate
n-Amyl acetate
Time-->
Abundance
TIC: 1M174861.D\data.ms
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

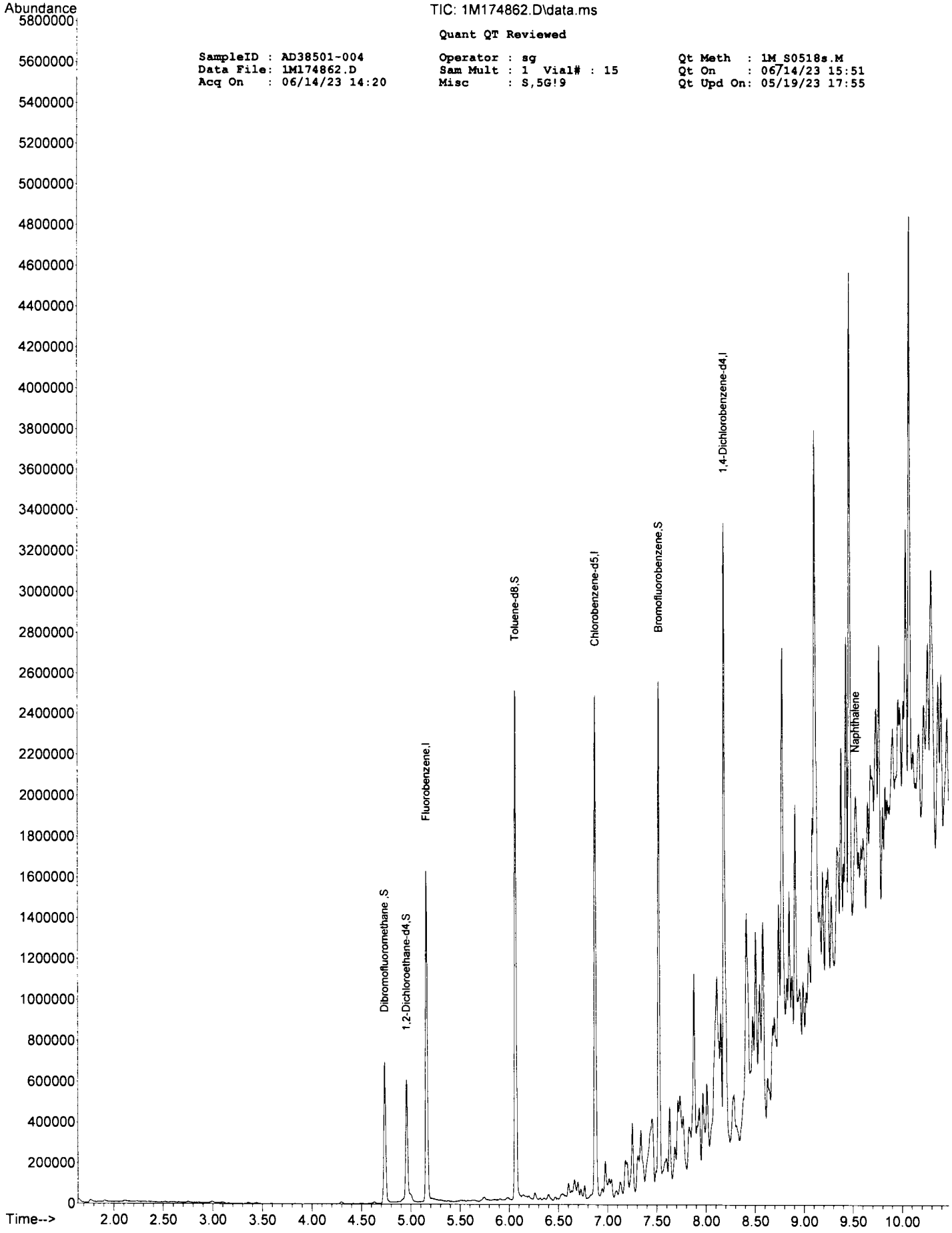
Quantitation Report (QT Reviewed)

SampleID : AD38501-004 Operator : sg Qt Meth : 1M_S0518s.M
Data File: 1M174862.D Sam Mult : 1 Vial# : 15 Qt On : 06/14/23 15:51
Acq On : 06/14/23 14:20 Misc : S,5G!9 Qt Upd On: 05/19/23 17:55

Data Path : G:\GcMsData\2023\GCMS_1\Data\06-14-23\
Qt Path : G:\GcMsData\2023\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.158	96	1004199	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.878	117	997058	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.187	152	583517	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.734	111	286615	31.81	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.03%			
39) 1,2-Dichloroethane-d4	4.955	67	143603	28.30	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.33%			
66) Toluene-d8	6.065	98	1145955	30.32	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.07%			
76) Bromofluorobenzene	7.524	174	434161	31.39	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.63%			
Target Compounds						Qvalue
107) Naphthalene	9.528	128	54978m	4.1204	ug/l	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 1M174862.D\data.ms
Quant QT Reviewed
SampleID : AD38501-004
Data File: 1M174862.D
Acq On : 06/14/23 14:20
Operator : sg
Sam Mult : 1 Vial# : 15
Misc : S,5G!9
Qt Meth : 1M_S0518s.M
Qt On : 06/14/23 15:51
Qt Upd On: 05/19/23 17:55
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Naphthalene
Time-->

GC/MS Volatile Data
Logbook Data

RUN LOG

1-1-1M173756

Instrument: GCMS_1 Year: 2023
Analyst: WP

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
1M173756.	BFB TUNE		V-389443,V-389444,V-394818	WP 05/19/23						05/18 21:54
1M173758.	CAL @ 0.5 PPB		B-34834	WP 05/19/23		Soil	1	1	624\8260	05/18 22:30
1M173759.	CAL @ 1 PPB		B-34834	WP 05/19/23		Soil	1	1	624\8260	05/18 22:51
1M173760.	CAL @ 2 PPB		B-34834	WP 05/19/23		Soil	1	1	624\8260	05/18 23:12
1M173761.	CAL @ 5 PPB		B-34834	WP 05/19/23		Soil	1	1	624\8260	05/18 23:33
1M173762.	CAL @ 20 PPB		B-34834	WP 05/19/23		Soil	1	1	624\8260	05/18 23:54
1M173763.	CAL @ 50 PPB		B-34834	WP 05/19/23		Soil	1	1	624\8260	05/19 00:15
1M173765.	CAL @ 100 PPB		B-34834	WP 05/19/23		Soil	1	1	624\8260	05/19 00:56
1M173767.	CAL @ 250 PPB		B34834	WP 05/19/23		Soil	1	1	624\8260	05/19 01:38
1M173770.	CAL @ 500 PPB		B34834	WP 05/19/23		Soil	1	1	624\8260	05/19 02:40
1M173775.	ICV	Sd	V-395840	WP 05/19/23		Soil	2.5	1	8260D	05/19 04:25
1M173780.	DAILY BLANK		OK	WP 05/19/23		Soil	1	1	8260D	05/19 06:09
1M173781.	MDL @ 1 PPB					Soil	1	1	8260D	05/19 06:30
1M173782.	MDL @ 1 PPB					Soil	1	1	8260D	05/19 06:51
1M173783.	MDL @ 1 PPB					Soil	1	1	8260D	05/19 07:12
1M173784.	MDL @ 1 PPB					Soil	1	1	8260D	05/19 07:33

Anc	Area Not Checked	Ep	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 ... not checked
B6m	Blank 600 series missing	Etn	Tcln/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for enh
B8m	Blank 8000 series missing	Eto	Tcln Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C1B	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evm	Eval Mix missing ddl or endrin
C1R	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R1B R2B	Rpd Out on MsMsd (col1 and or col2) 600 series
C2B	Calibration Column 2 Out (600 Series)	I1B I2B	Initial cal 600 series failed Column 1 and or 2	R1R R2R	Rpd Out on MsMsd (col1 and or col2) 8000 series
C2R	Calibration Column 2 Out (8000 Series)	I1R I2R	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Pmb with calmtl.csv for init calibration chek rls	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

1-1-1M174814

Instrument: GCMS_1 Year: 2023
Analyst: WP

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
1M174814.	BFB TUNE		V-389444,V-389443,V-396206,V-397284	sg 06/14/23						06/13 21:29
1M174815.	CAL @ 50 PPB	C16	OK	sg 06/14/23		Soil	0.4	1	624\8260	06/13 21:45
1M174816.	50 PPB	Sd				Soil	0.4	1	8260D	06/13 22:06
1M174817.	BLK					Soil	1	1	8260D	06/13 22:27
1M174820.	BLK					Soil	1	1	8260D	06/13 23:30
1M174821.	DAILY BLANK		OK	sg 06/14/23		Soil	1	1	8260D	06/13 23:51
1M174822.	AD38516-017		OK	sg 06/14/23	VO10-8260	Soil	1	1	8260D	06/14 00:11
1M174823.	AD38530-016	Ao	OK 2nd run use this run	sg 06/14/23	VO-8260	Soil	1	1	8260D	06/14 00:32
1M174824.	MBS109403	M18	OK MBS109403	sg 06/14/23		Soil	1	1	8260D	06/14 00:53
1M174825.	AD38487-003(MS)	M18	OK MBS109403	sg 06/14/23	VO-8260	Soil	1	1	8260D	06/14 01:14
1M174826.	AD38487-003(MSD)	R18M18	OK MBS109403	sg 06/14/23	VO-8260	Soil	1	1	8260D	06/14 01:35
1M174827.	MBS109404		MBS109404			Soil	1	1	8260D	06/14 01:56
1M174828.	AD38487-003		qC MBS109403	sg 06/14/23	VO-8260	Soil	1	1	8260D	06/14 02:17
1M174829.	AD38524-001		OK	sg 06/14/23	VO-8260	Soil	1	1	8260D	06/14 02:38
1M174830.	AD38524-003		OK	sg 06/14/23	VO-8260	Soil	1	1	8260D	06/14 02:59
1M174831.	AD38556-002		OK	WP 06/16/23	VO-8260	Soil	1	1	8260D	06/14 03:20
1M174832.	AD38556-004		OK	WP 06/16/23	VO-8260	Soil	1	1	8260D	06/14 03:41
1M174833.	AD38556-006		OK	WP 06/16/23	VO-8260	Soil	1	1	8260D	06/14 04:01
1M174834.	AD38530-020		OK	sg 06/14/23	VO-8260	Soil	1	1	8260D	06/14 04:22
1M174835.	AD38529-004		OK	sg 06/14/23	VO-8260	Soil	1	1	8260D	06/14 04:43
1M174836.	AD38537-002		OK	sg 06/14/23	VO10-8260	Soil	1	1	8260D	06/14 05:04
1M174837.	AD38537-003		OK	sg 06/14/23	VO10-8260	Soil	1	1	8260D	06/14 05:25
1M174838.	AD38537-004		OK	sg 06/14/23	VO10-8260	Soil	1	1	8260D	06/14 05:46
1M174839.	AD38537-006	Ao	OK	SG 06/14/23	VO10-8260	Soil	1	1	8260D	06/14 06:07
1M174840.	AD38537-007	Ao	OK	SG 06/14/23	VO10-8260	Soil	1	1	8260D	06/14 06:28
1M174841.	AD38537-008		OK	sg 06/14/23	VO10-8260	Soil	1	1	8260D	06/14 06:49
1M174842.	AD38554-010		OK	WP 06/16/23	VO-8260	Soil	1	1	8260D	06/14 07:10
1M174843.	AD38554-013		OK	WP 06/16/23	VO-8260	Soil	1	1	8260D	06/14 07:31
1M174844.	AD38537-001	S8Ao	RR-5g S8	SG 06/14/23	VO10-8260	Soil	1	1	8260D	06/14 07:52
1M174845.	AD38537-005		OK	SG 06/14/23	VO10-8260	Soil	1	1	8260D	06/14 08:13
1M174846.	AD38529-002		OK	SG 06/14/23	VO-8260	Soil	1	1	8260D	06/14 08:34

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Etn	Tdn/Solvent Extraction Date Missing/Not check'd	Crn	C30/C20 failed for anh
B8m	Blank 8000 series missing	Eto	Tdn Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evm	Eval Mix missing ddt or eddib
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Ddft
C8f	8000 series sample/blank did not have passing cal	Iv	Pmb with calmt csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

1-1-1M174849

Instrument: GCMS_1 Year: 2023
Analyst: sg

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
1M174849.	BFB TUNE		V-389444,V-389443,V-396206,V-397303	SG 06/14/23,SG 06/15/23,SG 06/15/23						06/14 09:47
1M174851.	CAL @ 50 PPB	C16	OK	SG 06/14/23		Soil	0.4	1	624\8260	06/14 10:29
1M174853.	BLK					Soil	1	1	8260D	06/14 11:11
1M174854.	BLK					Soil	1	1	8260D	06/14 11:32
1M174855.	BLK					Soil	1	1	8260D	06/14 11:53
1M174856.	DAILY BLANK		OK	SG 06/14/23		Soil	1	1	8260D	06/14 12:14
1M174857.	AD38550-001		OK	SG 06/14/23	VO15-8260	Soil	1	1	8260D	06/14 12:35
1M174858.	AD38551-004(5X)		OK	SG 06/14/23	VO-8260	Soil	1	5	8260D	06/14 12:56
1M174859.	MBS109413	M18	OK MBS109413	SG 06/14/23		Soil	1	1	8260D	06/14 13:17
1M174860.	AD38501-004(MS)	M18	OK MBS109413	WP 06/14/23	VO-8260	Soil	1	1	8260D	06/14 13:38
1M174861.	AD38501-004(MSD)	R18M18	OK MBS109413	WP 06/14/23	VO-8260	Soil	1	1	8260D	06/14 13:59
1M174862.	AD38501-004		QC ONLY MBS109413	WP 06/14/23	VO-8260	Soil	1	1	8260D	06/14 14:20
1M174863.	BLK					Soil	1	1	8260D	06/14 14:41
1M174864.	BLK					Soil	1	1	8260D	06/14 15:02
1M174865.	AD38516-008		OK	WP 06/14/23	VO10-8260	Soil	1	1	8260D	06/14 15:23
1M174866.	AD38537-001		OK	WP 06/14/23	VO10-8260	Soil	1	1	8260D	06/14 15:43
1M174867.	AD38517-001	Ao	OK	WP 06/14/23	VO15-8260	Soil	1	1	8260D	06/14 16:04
1M174868.	AD38538-001	Ao	OK	WP 06/14/23	VO15-8260	Soil	1	1	8260D	06/14 16:25
1M174869.	AD38538-003	Ao	OK	WP 06/14/23	VO15-8260	Soil	1	1	8260D	06/14 16:46
1M174870.	AD38554-001	Ao	OK	WP 06/14/23	VO-8260	Soil	1	1	8260D	06/14 17:07
1M174871.	AD38554-004		OK	WP 06/14/23	VO-8260	Soil	1	1	8260D	06/14 17:28
1M174872.	AD38554-007		OK	WP 06/14/23	VO-8260	Soil	1	1	8260D	06/14 17:49
1M174873.	AD38556-008		OK	WP 06/14/23	VO-8260	Soil	1	1	8260D	06/14 18:10
1M174874.	AD38556-010		OK	WP 06/14/23	VO-8260	Soil	1	1	8260D	06/14 18:31
1M174875.	AD38556-012	Ao	OK	WP 06/14/23	VO-8260	Soil	1	1	8260D	06/14 18:51
1M174876.	AD38556-014		OK	WP 06/14/23	VO-8260	Soil	1	1	8260D	06/14 19:12
1M174877.	AD38556-016		OK	WP 06/14/23	VO-8260	Soil	1	1	8260D	06/14 19:33
1M174878.	AD38556-018		OK	WP 06/14/23	VO-8260	Soil	1	1	8260D	06/14 19:54
1M174879.	AD38556-020		OK	WP 06/14/23	VO-8260	Soil	1	1	8260D	06/14 20:15
1M174880.	AD38556-022		OK	WP 06/14/23,SG 06/15/23,SG 06/15/23	VO-8260	Soil	1	1	8260D	06/14 20:36
1M174881.	AD38556-024	Ao	OK	SG 06/15/23	VO-8260	Soil	1	1	8260D	06/14 20:57
1M174882.	AD38556-026	Ao	OK	SG 06/15/23	VO-8260	Soil	1	1	8260D	06/14 21:18

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 ... not checked
B6m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for eoh
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evro	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Pmb with calmt csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Endrin Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Co	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-371358

Prepared By: Revolus, Jean
Description: VOA ADD MIX
Prep Date: 4/22/2022
Expiration Date: 4/1/2023
Department: Organics
BatchNumber:
Concentration: 5000/25000 p
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 04/27/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
2889	1,2,4,5-TETRAMETHYLBENZENE	50 mg	NEAT	5000 ppm
12762	p-Diethylbenzene	50 mg	NEAT	5000 ppm
14554	Cyclohexanone	250 mg	NEAT	25000 ppm
14548	p-Ethyltoluene	50 mg	NEAT	5000 ppm
14375	Methyl Alcohol		neat neat	

Veritech Lot Number: V-371359

Prepared By: Revolus, Jean
Description: Voa Extra Add Mix
Prep Date: 4/22/2022
Expiration Date: 4/1/2023
Department: Organics
BatchNumber:
Concentration: 2000-20000 p
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 04/27/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12763	Isopropyl acetate	20 mg	NEAT	2000 ppm
13194	n-Butyl acrylate	20 mg	Neat	2000 ppm
13195	Methyl methacrylate	20 mg	Neat	2000 ppm
14375	Methyl Alcohol		neat neat	
13191	d-Camphor	200 mg	Neat	20000 ppm
13192	n-Amyl acetate	20 mg	NEAT	2000 ppm
14553	Ethyl methacrylate	20 mg	NEAT	2000 ppm
14552	Camphene	20 mg	NEAT	2000 ppm
14550	Butyl methacrylate	20 mg	NEAT	2000 ppm
14549	Ethyl acetate	20 mg	NEAT	2000 ppm

Veritech Lot Number: V-371360

Prepared By: Revolus, Jean
Description: Voa Extra Add Mix(2nd Source)
Prep Date: 4/26/2022
Expiration Date: 10/23/2022
Department: Organics
BatchNumber:
Concentration: 2000-20000 p
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 04/27/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12763	Isopropyl acetate	20 mg	NEAT	2000 ppm
13195	Methyl methacrylate	20 mg	Neat	2000 ppm
13194	n-Butyl acrylate	20 mg	Neat	2000 ppm
13192	n-Amyl acetate	20 mg	NEAT	2000 ppm
13191	d-Camphor	200 mg	Neat	20000 ppm
14375	Methyl Alcohol		neat neat	
14553	Ethyl methacrylate	20 mg	NEAT	2000 ppm
14552	Camphene	20 mg	NEAT	2000 ppm
14550	Butyl methacrylate	20 mg	NEAT	2000 ppm
14549	Ethyl acetate	20 mg	NEAT	2000 ppm

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-371361

Prepared By: Revolus, Jean
Description: VOA ADD MIX(2nd Sources)
Prep Date: 4/22/2022
Expiration Date: 4/1/2023
Department: Organics
BatchNumber:
Concentration: 5000/25000 p
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 04/27/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
2889	1,2,4,5-TETRAMETHYLBENZENE	50 mg	NEAT	5000 ppm
12762	p-Diethylbenzene	50 mg	NEAT	5000 ppm
14554	Cyclohexanone	250 mg	NEAT	25000 ppm
14548	p-Ethyltoluene	50 mg	NEAT	5000 ppm
14375	Methyl Alcohol		neat neat	

Veritech Lot Number: V-382492

Prepared By: Revolus, Jean
Description: Ethyl ether/Furan Mix
Prep Date: 10/24/2022
Expiration Date: 10/24/2023
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: jean
ApproveDate: 10/24/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
13987	Ethyl Ether	50 mg	NEAT	5000 ppm
14880	Methanol	10 ml	neat neat	
11587	Furan	50 mg	NEAT neat	5000 ppm

Veritech Lot Number: V-382493

Prepared By: Revolus, Jean
Description: Ethyl ether/Furan Mix(2nd Sources)
Prep Date: 10/24/2022
Expiration Date: 10/24/2023
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: jean
ApproveDate: 10/24/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
13987	Ethyl Ether	50 mg	NEAT	5000 ppm
14880	Methanol	10 ml	neat neat	
11587	Furan	50 mg	NEAT neat	5000 ppm

Veritech Lot Number: V-389443

Prepared By: Previlon, Wilner
Description: VOA WORKING INT/SURR MIX
Prep Date: 2/13/2023
Expiration Date: 2/12/2024
Department: Organics
BatchNumber:
Concentration: 150 ppm
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 02/15/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14606	Methanol	88 ml	neat neat	
14301	8260A Surrogate Mix	6 ml	2500 ppm	150 ppm
13052	Internal Standard Mix	6 ml	2500 ppm	150 ppm

Veritech Lot Number: V-389444

Prepared By: Previlon, Wilner
Description: BFB Tune Mix
Prep Date: 2/13/2023
Expiration Date: 8/13/2023
Department: Organics
BatchNumber:
Concentration: 50 ppm
Final Volume: 1.5 ml
ApprovedBy: akmal
ApproveDate: 02/15/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-389443	VOA WORKING INT/SURR MIX	500 ul	150 ppm	50 ppm
14606	Methanol	1000 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-394817

Prepared By: Previlon, Wilner
Description: 200ppm VOA Working Std
Prep Date: 4/25/2023
Expiration Date: 9/21/2023
Department: Organics
BatchNumber:
Concentration: VARIOUS pp
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 05/08/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14880	Methanol	220 ul	neat neat	neat
14568	502.2 CALIBRATION MIX # 1	100 ul	2000 ppm	200 ppm
15230	502.2 Cal2000 Mega Mix	100 ul	2000 ppm	200 ppm
14628	EPA 8260 CAL MIX 2	100 ul	2000 ppm	200 ppm
15170	Custom Voc Standard	100 ul	VARIOUS	various ppm
14490	tert-Amyl Methyl Ether Standard	100 ul	2000 ppm	200 ppm
V-371358	VOA ADD MIX	40 ul	5000/25000 p	various ppm
V-382492	Ethyl ether/Furan Mix	40 ul	5000 ppm	200 ppm
V-371359	Voa Extra Add Mix	100 ul	2000-20000 p	200 ppm
13998	Ethyl-tert-Butyl Ether(ETBE)	100 ul	2000 ppm	200 ppm

Veritech Lot Number: V-394818

Prepared By: Previlon, Wilner
Description: MBS
Prep Date: 4/25/2023
Expiration Date: 9/21/2023
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 05/08/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14606	Methanol	610 ul	neat neat	neat neat
14586	502.2 CALIBRATION MIX # 1(2ndLot)	50 ul	2000 ppm	100 ppm
15229	502.2 Calibration Mix #1	50 ul	2000 ppm	100 ppm
14628	EPA 8260 CAL MIX 2	50 ul	2000 ppm	100 ppm
15171	Custom VOC Standard	50 ul	VARIOUS	various ppm
14565	tert-Amyl Methyl Ether Standard	50 ul	2000 ppm	100 ppm
V-371361	VOA ADD MIX(2nd Sources)	20 ul	5000/25000 p	various ppm
V-371359	Voa Extra Add Mix	50 ul	2000-20000 p	100-1000 pp
V-382493	Ethyl ether/Furan Mix(2nd Sources)	20 ul	5000 ppm	100 ppm
14564	Ethyl-tert-Butyl Ether(ETBE)	50 ul	2000 ppm	100 ppm

Veritech Lot Number: V-395830

Prepared By: Previlon, Wilner
Description: Soil8260 Stock @ 500 PPB
Prep Date: 5/18/2023
Expiration Date: 5/19/2023
Department: Organics
BatchNumber:
Concentration: VARIOUS ppb
Final Volume: 40 ml
ApprovedBy: akmal
ApproveDate: 05/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-394817	200ppm VOA Working Std	100 ul	VARIOUS pp	500 ppb
12833	P&T Water	40 ml	NEAT neat	neat
14443	Chlorodifluoromethane(Freon#22)	100 ul	200 ppm	500 ppb

Veritech Lot Number: V-395831

Prepared By: Previlon, Wilner
Description: Soil8260 CAL @ 250 PPB
Prep Date: 5/18/2023
Expiration Date: 5/19/2023
Department: Organics
BatchNumber: B-34834
Concentration: VARIOUS ppb
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 05/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12833	P&T Water	2.5 ml	NEAT neat	
V-395830	Soil8260 Stock @ 500 PPB	2.5 ml	VARIOUS pp	250 ppb

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-395832

Prepared By: Previlon, Wilner
Description: Soil8260 CAL @ 100 PPB
Prep Date: 5/18/2023
Expiration Date: 5/19/2023
Department: Organics
BatchNumber: B-34834
Concentration: VARIOUS ppb
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 05/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12833	P&T Water	4 ml	NEAT neat	
V-395830	Soil8260 Stock @ 500 PPB	1 ml	VARIOUS pp	100 ppb

Veritech Lot Number: V-395833

Prepared By: Previlon, Wilner
Description: Soil8260 CAL @ 50 PPB
Prep Date: 5/18/2023
Expiration Date: 5/19/2023
Department: Organics
BatchNumber: B-34834
Concentration: VARIOUS ppb
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 05/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12833	P&T Water	4.5 ml	NEAT neat	
V-395830	Soil8260 Stock @ 500 PPB	.5 ml	VARIOUS pp	50 ppb

Veritech Lot Number: V-395834

Prepared By: Previlon, Wilner
Description: Soil8260 CAL @ 20 PPB
Prep Date: 5/18/2023
Expiration Date: 5/19/2023
Department: Organics
BatchNumber: B-34834
Concentration: VARIOUS ppb
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 05/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12833	P&T Water	4.8 ml	NEAT neat	
V-395830	Soil8260 Stock @ 500 PPB	.2 ml	VARIOUS pp	20 ppb

Veritech Lot Number: V-395835

Prepared By: Previlon, Wilner
Description: Soil8260 CAL @ 2 PPB
Prep Date: 5/18/2023
Expiration Date: 5/19/2023
Department: Organics
BatchNumber: B-34834
Concentration: VARIOUS ppb
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 05/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12833	P&T Water	4.98 ml	NEAT neat	
V-395830	Soil8260 Stock @ 500 PPB	20 ul	VARIOUS pp	2 ppb

Veritech Lot Number: V-395836

Prepared By: Previlon, Wilner
Description: Soil8260 CAL @ 5 PPB
Prep Date: 5/18/2023
Expiration Date: 5/19/2023
Department: Organics
BatchNumber: B-34834
Concentration: VARIOUS ppb
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 05/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12833	P&T Water	4.95 ml	NEAT neat	
V-395830	Soil8260 Stock @ 500 PPB	.05 ml	VARIOUS pp	5 ppb

Veritech Lot Number: V-395837

Prepared By: Previlon, Wilner
Description: Soil8260 CAL @ 1 PPB
Prep Date: 5/18/2023
Expiration Date: 5/19/2023
Department: Organics
BatchNumber: B-34834
Concentration: VARIOUS ppb
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 05/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12833	P&T Water	4.99 ml	NEAT neat	
V-395830	Soil8260 Stock @ 500 PPB	.01 ml	VARIOUS pp	1 ppb

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-395838

Prepared By: Previlon, Wilner
Description: Soil8260 CAL @ 500 PPB
Prep Date: 5/18/2023
Expiration Date: 5/19/2023
Department: Organics
BatchNumber: B-34834
Concentration: VARIOUS ppb
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 05/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-395830	Soil8260 Stock @ 500 PPB	5 ml	VARIOUS pp	500 ppb

Veritech Lot Number: V-395839

Prepared By: Previlon, Wilner
Description: Soil8260 CAL @ 0.5 PPB
Prep Date: 5/18/2023
Expiration Date: 5/19/2023
Department: Organics
BatchNumber: B-34834
Concentration: VARIOUS ppb
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 05/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12833	P&T Water	4.995 ml	NEAT neat	
V-395830	Soil8260 Stock @ 500 PPB	.005 ml	VARIOUS pp	0.5 ppb

Veritech Lot Number: V-395840

Prepared By: Previlon, Wilner
Description: ICV CAL @ 50 PPB
Prep Date: 5/18/2023
Expiration Date: 5/19/2023
Department: Organics
BatchNumber:
Concentration: VARIOUS ppb
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 05/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12833	P&T Water	5 ml	NEAT neat	
V-394818	MBS	2.5 ul	100 ppm	50 ppb
14443	Chlorodifluoromethane(Freon#22)	1.25 ul	200 ppm	50 ppb

Veritech Lot Number: V-396205

Prepared By: Previlon, Wilner
Description: 200ppm VOA Working Std
Prep Date: 5/25/2023
Expiration Date: 9/21/2023
Department: Organics
BatchNumber:
Concentration: VARIOUS pp
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 06/01/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14880	Methanol	220 ul	neat neat	neat
15229	502.2 Calibration Mix #1	100 ul	2000 ppm	200 ppm
15246	502.2 Cal 2000 Mega Mix	100 ul	2000 ppm	200 ppm
15259	8260 Additions Mix	100 ul	2000 ppm	200 ppm
15170	Custom Voc Standard	100 ul	VARIOUS	various ppm
15252	tert-Amyl Methyl Ether Standard	100 ul	2000 ppm	200 ppm
V-371358	VOA ADD MIX	40 ul	5000/25000 p	various ppm
V-371359	Voa Extra Add Mix	100 ul	2000-20000 p	200 ppm
V-382492	Ethyl ether/Furan Mix	40 ul	5000 ppm	200 ppm
14564	Ethyl-tert-Butyl Ether(ETBE)	100 ul	2000 ppm	200 ppm

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-396206

Prepared By: Previlon, Wilner
Description: MBS
Prep Date: 5/25/2023
Expiration Date: 9/21/2023
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 06/01/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14606	Methanol	610 ul	neat neat	neat neat
14586	502.2 CALIBRATION MIX # 1(2ndLot)	50 ul	2000 ppm	100 ppm
15230	502.2 Cal2000 Mega Mix	50 ul	2000 ppm	100 ppm
14628	EPA 8260 CAL MIX 2	50 ul	2000 ppm	100 ppm
15171	Custom VOC Standard	50 ul	VARIOUS	various ppm
14565	tert-Amyl Methyl Ether Standard	50 ul	2000 ppm	100 ppm
V-371361	VOA ADD MIX(2nd Sources)	20 ul	5000/25000 p	various ppm
V-371360	Voa Extra Add Mix(2nd Source)	50 ul	2000-20000 p	100-1000 pp
V-382493	Ethyl ether/Furan Mix(2nd Sources)	20 ul	5000 ppm	100 ppm
14564	Ethyl-tert-Butyl Ether(ETBE)	50 ul	2000 ppm	100 ppm

Veritech Lot Number: V-397284

Prepared By: Previlon, Wilner
Description: ICV CAL @ 20 PPB
Prep Date: 6/13/2023
Expiration Date: 6/20/2023
Department: Organics
BatchNumber:
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 06/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-396206	MBS	20 ul	100 ppm	20 ppb
12833	P&T Water	100 ml	NEAT neat	neat
14624	Chlorodifluoromethane	10 ul	200 ppm	20 ppb

Veritech Lot Number: V-397303

Prepared By: Goring, Shawn
Description: CAL @ 50 PPB
Prep Date: 6/14/2023
Expiration Date: 6/15/2023
Department: Organics
BatchNumber:
Concentration: VARIOUS ppb
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 06/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-396205	200ppm VOA Working Std	1.25 ul	VARIOUS pp	50 ppb
12833	P&T Water	5 ml	NEAT neat	
14828	Chlorodifluoromethane	1.25 ul	200 ppm	50 ppb

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 2889

Description: 1,2,4,5-TETRAMETHYLBENZENE

ApprovedBy: jean
ApproveDate: 12/18/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Acros Organics	409390050	A0214190	11/20/07	11/30/27	Revolus, Jean	1	1ML	NEAT	

Veritech Control/Receipt Number: 11587

Description: Furan

ApprovedBy: akmal
ApproveDate: 04/05/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	185922	SHBG4510V	04/05/18	08/31/25	Hamid, Akmal	1	5ML	NEAT	NEAT

Veritech Control/Receipt Number: 12762

Description: p-Diethylbenzene

ApprovedBy: akmal
ApproveDate: 09/19/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ChemService	N-12771-100MG	8949700	09/19/19	08/31/23	Revolus, Jean	4	100m	NEAT	

Veritech Control/Receipt Number: 12763

Description: Isopropyl acetate

ApprovedBy: akmal
ApproveDate: 10/07/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ChemService	N-12223-1G	8816500	09/19/19	04/30/24	Revolus, Jean	1	1g	NEAT	

Veritech Control/Receipt Number: 12833

Description: P&T Water

ApprovedBy: akmal
ApproveDate: 10/16/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Veritech	N/A	N/A	10/14/19	10/14/25	Goring, Shawn	1	N/A	NEAT	NEAT

Veritech Control/Receipt Number: 13052

Description: Internal Standard Mix

ApprovedBy: jean
ApproveDate: 02/13/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Restek	30241	A0156714	02/11/20	01/31/25	Revolus, Jean	12	1ml	2500	PPM

Veritech Control/Receipt Number: 13191

Description: d-Camphor

ApprovedBy: jean
ApproveDate: 04/17/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-11556-100MG	9259300	04/17/20	12/31/25	Revolus, Jean	5	100m	Neat	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 13192

Description: n-Amyl acetate

ApprovedBy: jean
ApproveDate: 04/17/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-12508-1G	9676300	04/17/20	03/31/26	Revolus, Jean	1	1g	NEAT	

Veritech Control/Receipt Number: 13194

Description: n-Butyl acrylate

ApprovedBy: jean
ApproveDate: 04/17/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-12513-1G	9919500	04/17/20	01/31/26	Revolus, Jean	1	1g	Neat	

Veritech Control/Receipt Number: 13195

Description: Methyl methacrylate

ApprovedBy: jean
ApproveDate: 04/17/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-12443-1G	9827400	04/17/20	03/30/26	Revolus, Jean	1	1g	Neat	

Veritech Control/Receipt Number: 13987

Description: Ethyl Ether

ApprovedBy: akmal
ApproveDate: 06/09/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-11897-1G	11096100	05/25/21	12/31/25	Revolus, Jean	1	1g	NEAT	

Veritech Control/Receipt Number: 13998

Description: Ethyl-tert-Butyl Ether(ETBE)

ApprovedBy: akmal
ApproveDate: 06/16/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Restek	30628	A0172879	06/16/21	05/31/26	Hamid, Akmal	6	1ML	2000	PPM

Veritech Control/Receipt Number: 14301

Description: 8260A Surrogate Mix

ApprovedBy: jean
ApproveDate: 11/10/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Restek	30240	A0175588	11/10/21	08/31/26	Revolus, Jean	20	1ml	2500	PPM

Veritech Control/Receipt Number: 14375

Description: Methyl Alcohol

ApprovedBy: akmal
ApproveDate: 12/28/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Tedia	MP1924-002	21080065	12/27/21	04/01/23	Burwell, John	42	1L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14443

Description: Chlorodifluoromethane(Freon#22)

ApprovedBy: jean
ApproveDate: 02/09/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
AccuStandard	M-REF-03	221081279	02/09/22	08/31/31	Revolus, Jean	10	1ml	200	PPM

Veritech Control/Receipt Number: 14490

Description: tert-Amyl Methyl Ether Standard

ApprovedBy: akmal
ApproveDate: 03/23/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Restek	30629	A0182802	03/18/22	03/31/27	Hamid, Akmal	10	1ML	2000	PPM

Veritech Control/Receipt Number: 14548

Description: p-Ethyltoluene

ApprovedBy: jean
ApproveDate: 05/01/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CHEMSERVICE	N-12776-1G	12503700	04/12/22	12/31/25	Revolus, Jean	1	1g	NEAT	

Veritech Control/Receipt Number: 14549

Description: Ethyl acetate

ApprovedBy: jean
ApproveDate: 05/01/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CHEMSERVICE	N-11881-1G	12841300	04/12/22	11/30/24	Revolus, Jean	1	1g	NEAT	

Veritech Control/Receipt Number: 14550

Description: Butyl methacrylate

ApprovedBy: jean
ApproveDate: 05/01/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CHEMSERVICE	N-11371-1G	12981700	04/12/22	02/28/29	Revolus, Jean	1	1g	NEAT	

Veritech Control/Receipt Number: 14552

Description: Camphene

ApprovedBy: jean
ApproveDate: 05/01/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CHEMSERVICE	N-11395-250MG	13119400	04/12/22	04/30/27	Revolus, Jean	1	0.25g	NEAT	

Veritech Control/Receipt Number: 14553

Description: Ethyl methacrylate

ApprovedBy: jean
ApproveDate: 05/01/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CHEMSERVICE	N-11903-1G	12985900	04/12/22	02/28/26	Revolus, Jean	1	1g	NEAT	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14554

Description: Cyclohexanone

ApprovedBy: jean
ApproveDate: 05/01/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CHEMSERVICE	N-11531-1G	13043700	04/19/22	05/31/23	Revolus, Jean	1	1g	NEAT	

Veritech Control/Receipt Number: 14564

Description: Ethyl-tert-Butyl Ether(ETBE)

ApprovedBy: akmal
ApproveDate: 05/06/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
RESTEK	30628	A0179423	05/02/22	12/31/26	Hamid, Akmal	6	1ML	2000	PPM

Veritech Control/Receipt Number: 14565

Description: tert-Amyl Methyl Ether Standard

ApprovedBy: akmal
ApproveDate: 05/06/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
RESTEK	30629	A0182802	05/02/22	03/31/27	Hamid, Akmal	6	1ML	2000	PPM

Veritech Control/Receipt Number: 14568

Description: 502.2 CALIBRATION MIX # 1

ApprovedBy: akmal
ApproveDate: 05/06/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
RESTEK	30042	A0180020	05/02/22	12/31/28	Hamid, Akmal	5	1 ML	2000	PPM

Veritech Control/Receipt Number: 14586

Description: 502.2 CALIBRATION MIX # 1(2ndLot)

ApprovedBy: akmal
ApproveDate: 05/11/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Restek	30042	A0184452	05/11/22	12/31/28	Hamid, Akmal	5	1ML	2000	PPM

Veritech Control/Receipt Number: 14606

Description: Methanol

ApprovedBy: jean
ApproveDate: 06/07/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
EMD	MX0482-6	60049	05/26/22	05/25/26	Lopez, Jose	49	1L	neat	neat

Veritech Control/Receipt Number: 14624

Description: Chlorodifluoromethane

ApprovedBy: jean
ApproveDate: 06/07/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ACCUSTANDAR	M-REF-03	219081587	06/03/22	08/19/31	Revolus, Jean	10	1mL	200	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14628

Description: EPA 8260 CAL MIX 2

ApprovedBy: jean
ApproveDate: 06/08/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SUPELCO	46831-U	LRAD2512	06/07/22	05/31/25	Revolus, Jean	5	1mL	2000	PPM

Veritech Control/Receipt Number: 14828

Description: Chlorodifluoromethane

ApprovedBy: akmal
ApproveDate: 09/19/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ACCUSTANDAR	M-REF-03	221081279	09/16/22	08/19/31	Revolus, Jean	10	1ml	200	PPM

Veritech Control/Receipt Number: 14880

Description: Methanol

ApprovedBy: jean
ApproveDate: 10/13/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco/EMD	MX0482-6	62126	10/12/22	10/11/27	Lopez, Jose	36	1L	neat	neat

Veritech Control/Receipt Number: 15170

Description: Custom Voc Standard

ApprovedBy: jean
ApproveDate: 03/24/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ACCUSTANDAR	S-16418	223031318	03/24/23	09/21/23	Revolus, Jean	5	1ml	VARIOU	

Veritech Control/Receipt Number: 15171

Description: Custom VOC Standard

ApprovedBy: jean
ApproveDate: 03/24/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ACCUSTANDAR	S-16418	223031314	03/24/23	09/21/23	Revolus, Jean	5	1ml	VARIOU	

Veritech Control/Receipt Number: 15229

Description: 502.2 Calibration Mix #1

ApprovedBy: jean
ApproveDate: 04/24/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
RESTEK	30042	A0192488	04/07/23	08/31/29	Revolus, Jean	10	1ml	2000	PPM

Veritech Control/Receipt Number: 15230

Description: 502.2 Cal2000 Mega Mix

ApprovedBy: jean
ApproveDate: 04/24/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
RESTEK	30431	A0188935	04/07/23	08/31/24	Revolus, Jean	10	1ml	2000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15246

Description: 502.2 Cal 2000 Mega Mix

ApprovedBy: akmal
ApproveDate: 04/28/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Restek	30431	A0196706	04/28/23	04/30/25	Hamid, Akmal	5	1ML	2000	PPM

Veritech Control/Receipt Number: 15252

Description: tert-Amyl Methyl Ether Standard

ApprovedBy: akmal
ApproveDate: 05/03/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
RESTEK	30629	A0197211	04/27/23	04/30/23	Revolus, Jean	6	1ml	2000	PPM

Veritech Control/Receipt Number: 15259

Description: 8260 Additions Mix

ApprovedBy: jean
ApproveDate: 05/05/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ACCUSTANDAR	M-8260-ADD-10X	223041101	05/05/23	08/07/23	Revolus, Jean	2	1ml	2000	PPM

GC/MS Base Neutral/Acid Extractable Data

GC/MS Base Neutral/Acid Extractable Data
QC Summary

FORM2

Surrogate Recovery

Method: EPA 8270E

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column1 S5 Recov	Column1 S6 Recov
7M129378.D	SMB108867	S	06/21/23 15:44	1		NA	NA	73	74	NA	86
9M122404.D	AD38537-001	S	06/21/23 18:10	1		NA	NA	53	60	NA	80
7M129414.D	AD38537-002	S	06/22/23 12:19	1		NA	NA	70	79	NA	83
9M122405.D	AD38537-003	S	06/21/23 18:33	1		NA	NA	66	70	NA	82
7M129413.D	AD38537-004	S	06/22/23 11:56	1		NA	NA	64	74	NA	79
9M122406.D	AD38537-005	S	06/21/23 18:55	1		NA	NA	66	70	NA	77
9M122407.D	AD38537-006	S	06/21/23 19:18	1		NA	NA	66	73	NA	89
7M129416.D	AD38537-007(3X)	S	06/22/23 13:06	3		NA	NA	64	75	NA	77
9M122408.D	AD38537-008	S	06/21/23 19:40	1		NA	NA	71	73	NA	85
7M129376.D	SMB108867(MS)	S	06/21/23 14:57	1		NA	NA	73	75	NA	86
7M129410.D	AD38555-009	S	06/22/23 10:29	1		NA	NA	71	81	NA	80
7M129422.D	AD38555-009(MS)	S	06/22/23 15:26	1		NA	NA	82	85	NA	90
7M129423.D	AD38555-009(MSD)	S	06/22/23 15:50	1		NA	NA	79	82	NA	85

Flags: SD=Surrogate diluted out

*=Surrogate out

Method: EPA 8270E

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	25-140
S2=Phenol-d5	100	27-146
S3=Nitrobenzene-d5	50	16-159
S4=2-Fluorobiphenyl	50	29-145
S5=2,4,6-Tribromophenol	100	12-174
S6=Terphenyl-d14	50	33-166

Form3
Recovery Data Laboratory Limits
QC Batch: SMB108867

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M129376.D	SMB108867(MS)	6/21/2023 2:57:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	9.8007	0	50	20	10	60
Pyridine	1	22.0058	0	50	44	13	107
N-Nitrosodimethylamine	1	23.6959	0	50	47	30	100
Benzaldehyde	1	19.941	0	50	40	10	121
Aniline	1	22.4446	0	50	45	10	96
Pentachloroethane	1	26.1654	0	50	52	19	125
bis(2-Chloroethyl)ether	1	24.7676	0	50	50	28	120
N-Decane	1	20.3438	0	50	41	10	142
1,3-Dichlorobenzene	1	24.6839	0	50	49	32	105
1,4-Dichlorobenzene	1	35.2569	0	50	71	37	100
1,2-Dichlorobenzene	1	35.1375	0	50	70	29	108
Benzyl alcohol	1	37.9799	0	50	76	37	119
bis(2-chloroisopropyl)ether	1	29.0914	0	50	58	20	110
Acetophenone	1	37.0947	0	50	74	11	152
Hexachloroethane	1	34.0648	0	50	68	10	130
N-Nitroso-di-n-propylamine	1	33.7187	0	50	67	10	151
Nitrobenzene	1	37.7737	0	50	76	20	142
Isophorone	1	32.9314	0	50	66	10	164
Benzoic Acid	1	96.7663	0	100	97	10	182
bis(2-Chloroethoxy)methane	1	38.1578	0	50	76	26	131
1,2,4-Trichlorobenzene	1	37.9933	0	50	76	33	121
Naphthalene	**1**	**36.7077**	**0**	**50**	**73**	**10**	**153**
4-Chloroaniline	1	20.0577	0	50	40	10	112
Hexachlorobutadiene	1	37.7947	0	50	76	32	113
Caprolactam	1	39.0892	0	50	78	10	174
2-Methylnaphthalene	**1**	**42.4494**	**0**	**50**	**85**	**11**	**153**
1-Methylnaphthalene	1	45.3877	0	50	91	10	180
1,1'-Biphenyl	1	41.3641	0	50	83	18	148
1,2,4,5-Tetrachlorobenzene	1	41.3716	0	50	83	31	124
Hexachlorocyclopentadiene	1	34.5109	0	50	69	10	103
2-Chloronaphthalene	1	40.4524	0	50	81	41	115
1,4-Dimethylnaphthalene	1	41.559	0	50	83	10	205
Diphenyl Ether	1	42.3552	0	50	85	31	127
2-Nitroaniline	1	42.5379	0	50	85	32	142
Coumarin	1	43.8943	0	50	88	14	160
Acenaphthylene	**1**	**45.227**	**0**	**50**	**90**	**26**	**133**
Dimethylphthalate	1	40.672	0	50	81	40	120
2,6-Dinitrotoluene	1	41.4816	0	50	83	18	148
Acenaphthene	**1**	**40.6875**	**0**	**50**	**81**	**11**	**158**
3-Nitroaniline	1	28.5734	0	50	57	14	137
Dibenzofuran	1	42.8749	0	50	86	10	170
2,4-Dinitrotoluene	1	40.937	0	50	82	10	173
Fluorene	**1**	**40.8866**	**0**	**50**	**82**	**14**	**152**
4-Chlorophenyl-phenylether	1	41.2685	0	50	83	40	121
Diethylphthalate	1	42.0225	0	50	84	40	119
4-Nitroaniline	1	37.9095	0	50	76	31	125
Atrazine	1	39.2721	0	50	79	12	164
n-Nitrosodiphenylamine	1	36.3197	0	50	73	10	172
1,2-Diphenylhydrazine	1	45.5673	0	50	91	24	144
4-Bromophenyl-phenylether	1	42.9681	0	50	86	26	148
Hexachlorobenzene	1	42.0505	0	50	84	36	124
N-Octadecane	1	55.2297	0	50	110	10	186
Phenanthrene	**1**	**42.4293**	**0**	**50**	**85**	**10**	**175**
Anthracene	**1**	**43.1983**	**0**	**50**	**86**	**21**	**148**
Carbazole	1	45.9279	0	50	92	36	137
Di-n-butylphthalate	1	44.538	0	50	89	41	134
Fluoranthene	**1**	**41.1465**	**0**	**50**	**82**	**10**	**186**
Pyrene	**1**	**47.5309**	**0**	**50**	**95**	**10**	**196**
Benzidine	1	5.091	0	50	10	10	77
Butylbenzylphthalate	1	46.9087	0	50	94	40	139
3,3'-Dichlorobenzidine	1	31.0215	0	50	62	10	110

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB108867

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Benzo[a]anthracene	**1**	**42.0037**	**0**	**50**	**84**	**13**	**142**
Chrysene	**1**	**42.0047**	**0**	**50**	**84**	**11**	**161**
bis(2-Ethylhexyl)phthalate	1	47.2766	0	50	95	34	156
Di-n-octylphthalate	1	46.5389	0	50	93	28	158
Benzo[b]fluoranthene	**1**	**41.6477**	**0**	**50**	**83**	**20**	**156**
Benzo[k]fluoranthene	**1**	**46.1496**	**0**	**50**	**92**	**15**	**156**
Benzo[a]pyrene	**1**	**45.7184**	**0**	**50**	**91**	**14**	**144**
Indeno[1,2,3-cd]pyrene	**1**	**47.0409**	**0**	**50**	**94**	**24**	**142**
Dibenzo[a,h]anthracene	**1**	**47.3532**	**0**	**50**	**95**	**29**	**132**
Benzo[g,h,i]perylene	**1**	**46.2516**	**0**	**50**	**93**	**12**	**142**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB108867

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M129422.D	AD38555-009(MS)	6/22/2023 3:26:00 PM
Non Spike(If applicable):	7M129410.D	AD38555-009	6/22/2023 10:29:00 AM
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	15.1958	0	50	30	10	60
Pyridine	1	33.6532	0	50	67	13	107
N-Nitrosodimethylamine	1	36.224	0	50	72	30	100
Benzaldehyde	1	29.825	0	50	60	10	121
Aniline	1	28.1242	0	50	56	10	96
Pentachloroethane	1	37.7724	0	50	76	19	125
bis(2-Chloroethyl)ether	1	39.8126	0	50	80	28	120
N-Decane	1	30.5795	0	50	61	10	142
1,3-Dichlorobenzene	1	38.5945	0	50	77	32	105
1,4-Dichlorobenzene	1	38.3368	0	50	77	37	100
1,2-Dichlorobenzene	1	38.6543	0	50	77	29	108
Benzyl alcohol	1	41.7474	0	50	83	37	119
bis(2-chloroisopropyl)ether	1	32.4329	0	50	65	20	110
Acetophenone	1	40.8834	0	50	82	11	152
Hexachloroethane	1	31.4639	0	50	63	10	130
N-Nitroso-di-n-propylamine	1	37.7253	0	50	75	10	151
Nitrobenzene	1	40.9422	0	50	82	20	142
Isophorone	1	35.3286	0	50	71	10	164
Benzoic Acid	1	42.7422	0	100	43	10	182
bis(2-Chloroethoxy)methane	1	40.3926	0	50	81	26	131
1,2,4-Trichlorobenzene	1	41.7044	0	50	83	33	121
Naphthalene	**1**	**40.8574**	**0**	**50**	**82**	**10**	**153**
4-Chloroaniline	1	34.126	0	50	68	10	112
Hexachlorobutadiene	1	41.9575	0	50	84	32	113
Caprolactam	1	41.2038	0	50	82	10	174
2-Methylnaphthalene	**1**	**45.9898**	**0**	**50**	**92**	**11**	**153**
1-Methylnaphthalene	1	47.5889	0	50	95	10	180
1,1'-Biphenyl	1	42.784	0	50	86	18	148
1,2,4,5-Tetrachlorobenzene	1	43.6293	0	50	87	31	124
Hexachlorocyclopentadiene	1	0	0	50	0*	10	103
2-Chloronaphthalene	1	43.5398	0	50	87	41	115
1,4-Dimethylnaphthalene	1	43.8381	0	50	88	10	205
Diphenyl Ether	1	43.8961	0	50	88	31	127
2-Nitroaniline	1	46.3719	0	50	93	32	142
Coumarin	1	46.6465	0	50	93	14	160
Acenaphthylene	**1**	**48.0436**	**0**	**50**	**96**	**26**	**133**
Dimethylphthalate	1	44.6663	0	50	89	40	120
2,6-Dinitrotoluene	1	43.1024	0	50	86	18	148
Acenaphthene	**1**	**43.8823**	**0**	**50**	**88**	**11**	**158**
3-Nitroaniline	1	44.4449	0	50	89	14	137
Dibenzofuran	1	46.4212	0	50	93	10	170
2,4-Dinitrotoluene	1	41.8693	0	50	84	10	173
Fluorene	**1**	**44.2019**	**0**	**50**	**88**	**14**	**152**
4-Chlorophenyl-phenylether	1	43.5624	0	50	87	40	121
Diethylphthalate	1	44.541	0	50	89	40	119
4-Nitroaniline	1	43.85	0	50	88	31	125
Atrazine	1	41.5547	0	50	83	12	164
n-Nitrosodiphenylamine	1	38.6156	0	50	77	10	172
1,2-Diphenylhydrazine	1	46.5792	0	50	93	24	144
4-Bromophenyl-phenylether	1	44.3381	0	50	89	26	148
Hexachlorobenzene	1	41.4528	0	50	83	36	124
N-Octadecane	1	54.5798	0	50	109	10	186
Phenanthrene	**1**	**47.4948**	**4.8829**	**50**	**85**	**10**	**175**
Anthracene	**1**	**45.7857**	**0**	**50**	**92**	**21**	**148**
Carbazole	1	46.9234	0	50	94	36	137
Di-n-butylphthalate	1	47.4433	0	50	95	41	134
Fluoranthene	**1**	**50.398**	**8.8072**	**50**	**83**	**10**	**186**
Pyrene	**1**	**56.4081**	**9.8485**	**50**	**93**	**10**	**196**
Benzidine	1	3.3403	0	50	6.7*	10	77
Butylbenzylphthalate	1	49.0089	0	50	98	40	139
3,3'-Dichlorobenzidine	1	42.7053	0	50	85	10	110

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB108867

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Benzo[a]anthracene	1	49.5129	5.1334	50	89	13	142
Chrysene	1	50.5072	5.4311	50	90	11	161
bis(2-Ethylhexyl)phthalate	1	53.9856	0	50	108	34	156
Di-n-octylphthalate	1	48.9622	0	50	98	28	158
Benzo[b]fluoranthene	1	51.2714	6.2094	50	90	20	156
Benzo[k]fluoranthene	1	51.16	2.1733	50	98	15	156
Benzo[a]pyrene	1	52.7825	5.2848	50	95	14	144
Indeno[1,2,3-cd]pyrene	1	43.7227	2.9363	50	82	24	142
Dibenzo[a,h]anthracene	1	43.4442	0	50	87	29	132
Benzo[g,h,i]perylene	1	40.546	3.5515	50	74	12	142

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB108867

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M129423.D	AD38555-009(MSD)	6/22/2023 3:50:00 PM
Non Spike(If applicable):	7M129410.D	AD38555-009	6/22/2023 10:29:00 AM
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	17.5707	0	50	35	10	60
Pyridine	1	36.8001	0	50	74	13	107
N-Nitrosodimethylamine	1	37.6163	0	50	75	30	100
Benzaldehyde	1	31.8147	0	50	64	10	121
Aniline	1	24.2467	0	50	48	10	96
Pentachloroethane	1	39.1104	0	50	78	19	125
bis(2-Chloroethyl)ether	1	40.4276	0	50	81	28	120
N-Decane	1	33.9064	0	50	68	10	142
1,3-Dichlorobenzene	1	40.3302	0	50	81	32	105
1,4-Dichlorobenzene	1	38.5046	0	50	77	37	100
1,2-Dichlorobenzene	1	39.2065	0	50	78	29	208
Benzyl alcohol	1	40.9588	0	50	82	37	119
bis(2-chloroisopropyl)ether	1	32.5082	0	50	65	20	110
Acetophenone	1	40.6195	0	50	81	11	152
Hexachloroethane	1	31.9391	0	50	64	10	130
N-Nitroso-di-n-propylamine	1	38.4155	0	50	77	10	151
Nitrobenzene	1	40.8661	0	50	82	20	142
Isophorone	1	35.3151	0	50	71	10	164
Benzoic Acid	1	42.1302	0	100	42	10	182
bis(2-Chloroethoxy)methane	1	40.1382	0	50	80	26	131
1,2,4-Trichlorobenzene	1	41.1324	0	50	82	33	121
Naphthalene	**1**	**41.0869**	**0**	**50**	**82**	**10**	**153**
4-Chloroaniline	1	26.5768	0	50	53	10	112
Hexachlorobutadiene	1	41.8353	0	50	84	32	113
Caprolactam	1	39.8082	0	50	80	10	174
2-Methylnaphthalene	**1**	**46.3122**	**0**	**50**	**93**	**11**	**153**
1-Methylnaphthalene	1	47.3114	0	50	95	10	180
1,1'-Biphenyl	1	42.6217	0	50	85	18	148
1,2,4,5-Tetrachlorobenzene	1	43.4712	0	50	87	31	124
Hexachlorocyclopentadiene	1	0	0	50	0*	10	103
2-Chloronaphthalene	1	43.2752	0	50	87	41	115
1,4-Dimethylnaphthalene	1	42.992	0	50	86	10	205
Diphenyl Ether	1	43.8082	0	50	88	31	127
2-Nitroaniline	1	46.7034	0	50	93	32	142
Coumarin	1	45.8856	0	50	92	14	160
Acenaphthylene	**1**	**47.4114**	**0**	**50**	**95**	**26**	**133**
Dimethylphthalate	1	43.955	0	50	88	40	120
2,6-Dinitrotoluene	1	43.3516	0	50	87	18	148
Acenaphthene	**1**	**43.8817**	**0**	**50**	**88**	**11**	**158**
3-Nitroaniline	1	42.1153	0	50	84	14	137
Dibenzofuran	1	46.0592	0	50	92	10	170
2,4-Dinitrotoluene	1	41.1773	0	50	82	10	173
Fluorene	**1**	**43.9812**	**0**	**50**	**88**	**14**	**152**
4-Chlorophenyl-phenylether	1	42.8738	0	50	86	40	121
Diethylphthalate	1	44.8538	0	50	90	40	119
4-Nitroaniline	1	43.48	0	50	87	31	125
Atrazine	1	40.853	0	50	82	12	164
n-Nitrosodiphenylamine	1	38.8834	0	50	78	10	172
1,2-Diphenylhydrazine	1	46.9832	0	50	94	24	144
4-Bromophenyl-phenylether	1	44.3362	0	50	89	26	148
Hexachlorobenzene	1	42.5786	0	50	85	36	124
N-Octadecane	1	54.2472	0	50	108	10	186
Phenanthrene	**1**	**49.3044**	**4.8829**	**50**	**89**	**10**	**175**
Anthracene	**1**	**46.6399**	**0**	**50**	**93**	**21**	**148**
Carbazole	1	47.5753	0	50	95	36	137
Di-n-butylphthalate	1	46.7239	0	50	93	41	134
Fluoranthene	**1**	**51.9968**	**8.8072**	**50**	**86**	**10**	**186**
Pyrene	**1**	**56.6174**	**9.8485**	**50**	**94**	**10**	**196**
Benzidine	1	2.9767	0	50	6*	10	77
Butylbenzylphthalate	1	48.3722	0	50	97	40	139
3,3'-Dichlorobenzidine	1	41.2341	0	50	82	10	110

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB108867

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Benzo[a]anthracene	1	49.0355	5.1334	50	88	13	142
Chrysene	1	50.4678	5.4311	50	90	11	161
bis(2-Ethylhexyl)phthalate	1	52.2628	0	50	105	34	156
Di-n-octylphthalate	1	48.9274	0	50	98	28	158
Benzo[b]fluoranthene	1	52.2177	6.2094	50	92	20	156
Benzo[k]fluoranthene	1	49.9209	2.1733	50	95	15	156
Benzo[a]pyrene	1	53.1673	5.2848	50	96	14	144
Indeno[1,2,3-cd]pyrene	1	44.0156	2.9363	50	82	24	142
Dibenzo[a,h]anthracene	1	43.3841	0	50	87	29	132
Benzo[g,h,i]perylene	1	41.8205	3.5515	50	77	12	142

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB108867

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M129423.D	AD38555-009(MSD)	6/22/2023 3:50:00 PM
Duplicate(If applicable):	7M129422.D	AD38555-009(MS)	6/22/2023 3:26:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
1,4-Dioxane	1	17.5707	15.1958	14	62
Pyridine	1	36.8001	33.6532	8.9	78
N-Nitrosodimethylamine	1	37.6163	36.224	3.8	44
Benzaldehyde	1	31.8147	29.825	6.5	44
Aniline	1	24.2467	28.1242	15	90
Pentachloroethane	1	39.1104	37.7724	3.5	54
bis(2-Chloroethyl)ether	1	40.4276	39.8126	1.5	47
N-Decane	1	33.9064	30.5795	10	62
1,3-Dichlorobenzene	1	40.3302	38.5945	4.4	45
1,4-Dichlorobenzene	1	38.5046	38.3368	0.44	40
1,2-Dichlorobenzene	1	39.2065	38.6543	1.4	40
Benzyl alcohol	1	40.9588	41.7474	1.9	49
bis(2-chloroisopropyl)ether	1	32.5082	32.4329	0.23	39
Acetophenone	1	40.6195	40.8834	0.65	50
Hexachloroethane	1	31.9391	31.4639	1.5	66
N-Nitroso-di-n-propylamine	1	38.4155	37.7253	1.8	47
Nitrobenzene	1	40.8661	40.9422	0.19	48
Isophorone	1	35.3151	35.3286	0.04	47
Benzoic Acid	1	42.1302	42.7422	1.4	70
bis(2-Chloroethoxy)methane	1	40.1382	40.3926	0.63	45
1,2,4-Trichlorobenzene	1	41.1324	41.7044	1.4	39
Naphthalene	**1**	**41.0869**	**40.8574**	**0.56**	**58**
4-Chloroaniline	1	26.5768	34.126	25	75
Hexachlorobutadiene	1	41.8353	41.9575	0.29	40
Caprolactam	1	39.8082	41.2038	3.4	41
2-Methylnaphthalene	**1**	**46.3122**	**45.9898**	**0.7**	**39**
1-Methylnaphthalene	1	47.3114	47.5889	0.58	41
1,1'-Biphenyl	1	42.6217	42.784	0.38	43
1,2,4,5-Tetrachlorobenzene	1	43.4712	43.6293	0.36	53
Hexachlorocyclopentadiene	1	0	0	NA	113
2-Chloronaphthalene	1	43.2752	43.5398	0.61	53
1,4-Dimethylnaphthalene	1	42.992	43.8381	1.9	45
Diphenyl Ether	1	43.8082	43.8961	0.2	52
2-Nitroaniline	1	46.7034	46.3719	0.71	46
Coumarin	1	45.8856	46.6465	1.6	43
Acenaphthylene	**1**	**47.4114**	**48.0436**	**1.3**	**48**
Dimethylphthalate	1	43.955	44.6663	1.6	49
2,6-Dinitrotoluene	1	43.3516	43.1024	0.58	49
Acenaphthene	**1**	**43.8817**	**43.8823**	**0**	**39**
3-Nitroaniline	1	42.1153	44.4449	5.4	51
Dibenzofuran	1	46.0592	46.4212	0.78	45
2,4-Dinitrotoluene	1	41.1773	41.8693	1.7	47
Fluorene	**1**	**43.9812**	**44.2019**	**0.5**	**41**
4-Chlorophenyl-phenylether	1	42.8738	43.5624	1.6	39
Diethylphthalate	1	44.8538	44.541	0.7	46
4-Nitroaniline	1	43.48	43.85	0.85	47
Atrazine	1	40.853	41.5547	1.7	59
n-Nitrosodiphenylamine	1	38.8834	38.6156	0.69	56
1,2-Diphenylhydrazine	1	46.9832	46.5792	0.86	45
4-Bromophenyl-phenylether	1	44.3362	44.3381	0	41
Hexachlorobenzene	1	42.5786	41.4528	2.7	54
N-Octadecane	1	54.2472	54.5798	0.61	42
Phenanthrene	**1**	**49.3044**	**47.4948**	**3.7**	**70**
Anthracene	**1**	**46.6399**	**45.7857**	**1.8**	**47**
Carbazole	1	47.5753	46.9234	1.4	46
Di-n-butylphthalate	1	46.7239	47.4433	1.5	47
Fluoranthene	**1**	**51.9968**	**50.398**	**3.1**	**63**
Pyrene	**1**	**56.6174**	**56.4081**	**0.37**	**61**
Benzidine	1	2.9767	3.3403	12	267
Butylbenzylphthalate	1	48.3722	49.0089	1.3	40
3,3'-Dichlorobenzidine	1	41.2341	42.7053	3.5	48

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB108867

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Benzo[a]anthracene	1	49.0355	49.5129	0.97	55
Chrysene	1	50.4678	50.5072	0.08	54
bis(2-Ethylhexyl)phthalate	1	52.2628	53.9856	3.2	39
Di-n-octylphthalate	1	48.9274	48.9622	0.07	60
Benzo[b]fluoranthene	1	52.2177	51.2714	1.8	64
Benzo[k]fluoranthene	1	49.9209	51.16	2.5	57
Benzo[a]pyrene	1	53.1673	52.7825	0.73	58
Indeno[1,2,3-cd]pyrene	1	44.0156	43.7227	0.67	50
Dibenzo[a,h]anthracene	1	43.3841	43.4442	0.14	45
Benzo[g,h,i]perylene	1	41.8205	40.546	3.1	48

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB108867
Blank Data File: 7M129378.D
Matrix: Soil

Blank Analysis Date: 06/21/23 15:44
Blank Extraction Date: 06/21/23
(If Applicable)
Method: EPA 8270E

Sample Number	Data File	Analysis Date
AD38537-001	9M122404.D	06/21/23 18:10
AD38537-002	7M129414.D	06/22/23 12:19
AD38537-003	9M122405.D	06/21/23 18:33
AD38537-004	7M129413.D	06/22/23 11:56
AD38537-005	9M122406.D	06/21/23 18:55
AD38537-006	9M122407.D	06/21/23 19:18
AD38537-007(3X)	7M129416.D	06/22/23 13:06
AD38537-008	9M122408.D	06/21/23 19:40
AD38555-009(MSD	7M129423.D	06/22/23 15:50
AD38555-009(MS)	7M129422.D	06/22/23 15:26
AD38555-009	7M129410.D	06/22/23 10:29
SMB108867(MS)	7M129376.D	06/21/23 14:57

Form 5

Tune Name: CAL DFTPP **Data File:** 7M129283.D
Instrument: GCMS 7 **Analysis Date:** 06/19/23 08:46
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.031 to 10.037 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	41.6	47976	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	46.4	53544	PASS
70	69	0.00	2	0.7	385	PASS
127	198	40	60	56.0	64604	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	115428	PASS
199	198	5	9	6.8	7905	PASS
275	198	10	30	21.9	25328	PASS
365	198	1	100	2.7	3097	PASS
441	443	0.01	100	72.8	11050	PASS
442	198	40	100	65.4	75472	PASS
443	442	17	23	20.1	15179	PASS

Data File	Sample Number	Analysis Date:
7M129284.D	CAL BNA@2PPM	06/19/23 09:10
7M129285.D	CAL BNA@196PP	06/19/23 09:36
7M129286.D	CAL BNA@160PP	06/19/23 10:00
7M129287.D	CAL BNA@120PP	06/19/23 10:23
7M129288.D	CAL BNA@80PPM	06/19/23 10:47
7M129289.D	CAL BNA@20PPM	06/19/23 11:10
7M129290.D	CAL BNA@10PPM	06/19/23 11:34
7M129291.D	CAL BNA@0.5PP	06/19/23 11:57
7M129292.D	CAL BNA@50PPM	06/19/23 12:21
7M129293.D	CAL BNA@80PPM	06/19/23 13:08
7M129294.D	ICV BNA@50PPM	06/19/23 13:32

Form 5

Tune Name: CAL DFTPP **Data File:** 9M122387.D
Instrument: GCMS 9 **Analysis Date:** 06/21/23 11:22
Method: EPA 8270E

Tune Scan/Time Range: Average of 9.989 to 10.001 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	45.3	17656	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	41.2	16030	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	47.9	18652	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	38941	PASS
199	198	5	9	6.8	2646	PASS
275	198	10	30	25.6	9962	PASS
365	198	1	100	3.3	1290	PASS
441	443	0.01	100	81.7	4698	PASS
442	198	40	100	78.8	30669	PASS
443	442	17	23	18.8	5751	PASS

Data File	Sample Number	Analysis Date:
9M122388.D	CAL BNA@10PPM	06/21/23 11:44
9M122389.D	CAL BNA@2PPM	06/21/23 12:06
9M122390.D	CAL BNA@196PP	06/21/23 12:29
9M122391.D	CAL BNA@160PP	06/21/23 12:51
9M122392.D	CAL BNA@120PP	06/21/23 13:14
9M122393.D	CAL BNA@80PPM	06/21/23 13:36
9M122394.D	CAL BNA@20PPM	06/21/23 13:59
9M122395.D	CAL BNA@0.5PP	06/21/23 14:21
9M122396.D	CAL BNA@50PPM	06/21/23 14:44
9M122397.D	ICV BNA@50PPM	06/21/23 15:07

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 7
Data File: 7M129374.D
Analysis Date: 06/21/23 14:09
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.020 to 10.031 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	41.3	37642	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	46.7	42571	PASS
70	69	0.00	2	0.8	342	PASS
127	198	40	60	57.0	52027	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	91232	PASS
199	198	5	9	7.2	6533	PASS
275	198	10	30	22.2	20290	PASS
365	198	1	100	2.4	2158	PASS
441	443	0.01	100	80.0	8005	PASS
442	198	40	100	55.4	50527	PASS
443	442	17	23	19.8	10012	PASS

Data File	Sample Number	Analysis Date:
7M129375.D	CAL BNA@50PPM	06/21/23 14:33
7M129376.D	SMB108867(MS)	06/21/23 14:57
7M129377.D	SMB108868(MS)	06/21/23 15:20
7M129378.D	SMB108867	06/21/23 15:44
7M129379.D	SMB108868	06/21/23 16:07
7M129380.D	SMB108852	06/21/23 16:31
7M129381.D	AD38595-002	06/21/23 16:55
7M129382.D	AD38595-002(MS)	06/21/23 17:19
7M129383.D	AD38595-002(MSD	06/21/23 17:42
7M129384.D	AD38613-007(10X)	06/21/23 18:06
7M129385.D	AD38613-009(5X)	06/21/23 18:30
7M129386.D	AD38469-005(3X)	06/21/23 18:53
7M129387.D	AD38493-010(3X)	06/21/23 19:17
7M129388.D	AD38493-007(5X)	06/21/23 19:41
7M129389.D	AD38518-001	06/21/23 20:05
7M129390.D	AD38518-006	06/21/23 20:28
7M129391.D	AD38556-001	06/21/23 20:53
7M129392.D	AD38556-005	06/21/23 21:16
7M129393.D	AD38556-003(3X)	06/21/23 21:40
7M129394.D	AD38556-003(3X)(	06/21/23 22:04
7M129395.D	AD38556-003(3X)(	06/21/23 22:27
7M129396.D	AD38555-007(5X)	06/21/23 22:50
7M129397.D	AD38571-001	06/21/23 23:14
7M129398.D	AD38571-002(3X)	06/21/23 23:37
7M129399.D	AD38571-003(3X)	06/22/23 00:00
7M129400.D	AD38571-004	06/22/23 00:24
7M129401.D	AD38571-005(5X)	06/22/23 00:48
7M129402.D	AD38571-006(3X)	06/22/23 01:12
7M129403.D	AD38571-007	06/22/23 01:35
7M129404.D	AD38571-008	06/22/23 01:59
7M129405.D	AD38571-009	06/22/23 02:22
7M129406.D	AD38571-010	06/22/23 02:46

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 9
Data File: 9M122398.D
Analysis Date: 06/21/23 15:29
Method: EPA 8270E

Tune Scan/Time Range: Scan 1285

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	41.7	21800	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.6	20680	PASS
70	69	0.00	2	0.8	160	PASS
127	198	40	60	49.4	25800	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	52216	PASS
199	198	5	9	6.3	3297	PASS
275	198	10	30	25.9	13532	PASS
365	198	1	100	3.3	1719	PASS
441	443	0.01	100	84.2	6328	PASS
442	198	40	100	78.7	41072	PASS
443	442	17	23	18.3	7518	PASS

Data File	Sample Number	Analysis Date:
9M122399.D	CAL BNA@50PPM	06/21/23 15:54
9M122400.D	SMB108834	06/21/23 16:17
9M122401.D	SMB108852	06/21/23 17:02
9M122402.D	SMB108867	06/21/23 17:25
9M122403.D	SMB108868	06/21/23 17:47
9M122404.D	AD38537-001	06/21/23 18:10
9M122405.D	AD38537-003	06/21/23 18:33
9M122406.D	AD38537-005	06/21/23 18:55
9M122407.D	AD38537-006	06/21/23 19:18
9M122408.D	AD38537-008	06/21/23 19:40
9M122409.D	AD38513-003	06/21/23 20:03
9M122410.D	AD38513-005	06/21/23 20:25
9M122411.D	AD38513-006	06/21/23 20:48
9M122412.D	AD38555-011	06/21/23 21:10
9M122413.D	AD38555-013	06/21/23 21:33
9M122414.D	AD38623-001	06/21/23 21:55

Form 5

Tune Name: CAL DFTPP **Data File:** 7M129407.D
Instrument: GCMS 7 **Analysis Date:** 06/22/23 09:19
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.031 to 10.043 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	37.2	33026	PASS
68	69	0.00	2	0.9	330	PASS
69	198	0.00	100	42.0	37278	PASS
70	69	0.00	2	0.8	284	PASS
127	198	40	60	52.9	46952	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	88696	PASS
199	198	5	9	6.8	6055	PASS
275	198	10	30	24.0	21283	PASS
365	198	1	100	3.0	2682	PASS
441	443	0.01	100	76.5	10487	PASS
442	198	40	100	79.6	70613	PASS
443	442	17	23	19.4	13713	PASS

Data File	Sample Number	Analysis Date:
7M129408.D	CAL BNA@50PPM	06/22/23 09:43
7M129409.D	AD38615-021	06/22/23 10:06
7M129410.D	AD38555-009	06/22/23 10:29
7M129411.D	SMB108868	06/22/23 10:52
7M129412.D	AD38555-015(10X)	06/22/23 11:33
7M129413.D	AD38537-004	06/22/23 11:56
7M129414.D	AD38537-002	06/22/23 12:19
7M129415.D	SMB108875	06/22/23 12:42
7M129416.D	AD38537-007(3X)	06/22/23 13:06
7M129417.D	SMB108876	06/22/23 13:29
7M129418.D	AD38513-004	06/22/23 13:52
7M129419.D	AD38513-007(5X)	06/22/23 14:16
7M129420.D	AD38513-008(3X)	06/22/23 14:39
7M129421.D	AD38513-009	06/22/23 15:02
7M129422.D	AD38555-009(MS)	06/22/23 15:26
7M129423.D	AD38555-009(MSD	06/22/23 15:50

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FORM8

Internal Standard Areas

Evaluation Std Data File: 7M129292.D Method: EPA 8270E

Analysis Date/Time: 06/19/23 12:21

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	72028	2.62	114846	5.82	457566	6.84	272153	8.27	477035	9.75	380525	12.82	385859	14.49
Eval File Area Limit:	36014-144056		57423-229692		228783-915132		136076-544306		238518-954070		190262-761050		192930-771718	
Eval File Rt Limit:	2.12-3.12		5.32-6.32		6.34-7.34		7.77-8.77		9.25-10.25		12.32-13.32		13.99-14.99	

Data File	Sample#													
7M129284.D	CAL BNA@2PPM	77595	2.62	132834	5.82	541464	6.83	327568	8.27	548905	9.74	448163	12.82	421975	14.47
7M129285.D	CAL BNA@196PPM	71956	2.62	110326	5.83	455871	6.85	283868	8.29	499024	9.76	363392	12.84	384115	14.49
7M129286.D	CAL BNA@160PPM	58033	2.62	89948	5.83	362779	6.84	214980	8.28	374761	9.75	290491	12.83	303314	14.50
7M129287.D	CAL BNA@120PPM	58375	2.62	92509	5.82	370507	6.84	218963	8.28	382412	9.75	292670	12.83	304562	14.49
7M129289.D	CAL BNA@20PPM	73993	2.62	122688	5.82	504615	6.84	293451	8.27	502170	9.74	417689	12.82	411292	14.48
7M129290.D	CAL BNA@10PPM	63671	2.62	109781	5.82	448168	6.84	263470	8.27	447825	9.74	370466	12.82	352262	14.47
7M129291.D	CAL BNA@0.5PPM	74966	2.62	130341	5.82	527908	6.84	313798	8.27	526689	9.74	436055	12.82	420092	14.47
7M129292.D	CAL BNA@50PPM	72028	2.62	114846	5.82	457566	6.84	272153	8.27	477035	9.75	380525	12.82	385859	14.49
7M129293.D	CAL BNA@80PPM	75624	2.62	119899	5.82	489980	6.84	300270	8.27	517047	9.75	409943	12.82	418743	14.48
7M129294.D	ICV BNA@50PPM	73398	2.62	118393	5.82	470091	6.84	279958	8.27	483373	9.74	393000	12.82	387963	14.47

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 9M122396.D Method: EPA 8270E

Analysis Date/Time: 06/21/23 14:44

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	28755	2.58	53960	5.81	196166	6.82	103536	8.25	187463	9.71	176141	12.75	180071	14.37
Eval File Area Limit:	14378-57510		26980-107920		98083-392332		51768-207072		93732-374926		88070-352282		90036-360142	
Eval File Rt Limit:	2.08-3.08		5.31-6.31		6.32-7.32		7.75-8.75		9.21-10.21		12.25-13.25		13.87-14.87	

Data File	Sample#													
9M122388.D	CAL BNA@10PPM	22077	2.58	43453	5.81	157783	6.82	84566	8.24	150661	9.71	142900	12.75	146108	14.37
9M122389.D	CAL BNA@2PPM	24343	2.58	47229	5.81	171985	6.82	94085	8.24	169314	9.71	157359	12.75	162075	14.37
9M122390.D	CAL BNA@196PPM	25917	2.58	45818	5.81	165680	6.82	90112	8.25	169256	9.71	154408	12.76	162742	14.37
9M122391.D	CAL BNA@160PPM	25260	2.58	46712	5.81	167100	6.82	89053	8.25	163851	9.71	155214	12.76	163284	14.37
9M122392.D	CAL BNA@120PPM	25317	2.57	48274	5.81	171029	6.82	92999	8.25	169112	9.71	156872	12.76	162796	14.37
9M122393.D	CAL BNA@80PPM	26575	2.57	48407	5.81	176975	6.82	96419	8.25	178707	9.71	168368	12.76	173643	14.37
9M122394.D	CAL BNA@20PPM	27623	2.57	52672	5.81	192098	6.82	105150	8.24	188928	9.71	172575	12.75	177486	14.37
9M122395.D	CAL BNA@0.5PPM	25900	2.57	50542	5.81	185669	6.82	100737	8.24	181464	9.70	166801	12.75	167951	14.37
9M122396.D	CAL BNA@50PPM	28755	2.58	53960	5.81	196166	6.82	103536	8.25	187463	9.71	176141	12.75	180071	14.37
9M122397.D	ICV BNA@50PPM	25906	2.57	47685	5.81	171684	6.82	92971	8.24	170769	9.71	159443	12.75	161831	14.37

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

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FORM8

Internal Standard Areas

Evaluation Std Data File: 7M129375.D Method: EPA 8270E

Analysis Date/Time: 06/21/23 14:33

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	53354	2.62	85748	5.82	342075	6.84	202271	8.27	352529	9.75	256777	12.83	250384	14.47
Eval File Area Limit:	26677-106708		42874-171496		171038-684150		101136-404542		176264-705058		128388-513554		125192-500768	
Eval File Rt Limit:	2.12-3.12		5.32-6.32		6.34-7.34		7.77-8.77		9.25-10.25		12.33-13.33		13.97-14.97	

Data File	Sample#													
7M129376.D	SMB108867(MS)	104345	2.63	123970	5.83	476238	6.84	275103	8.27	437034	9.75	294896	12.82	286222	14.47
7M129377.D	SMB108868(MS)	136202A	2.64	131921	5.83	511408	6.84	288245	8.27	450800	9.75	289063	12.82	268988	14.47
7M129378.D	SMB108867	93733	2.63	147075	5.83	577004	6.83	338638	8.27	536049	9.74	335467	12.82	279984	14.47
7M129379.D	SMB108868	112068A	2.64	141326	5.82	568219	6.83	333230	8.27	526750	9.74	346489	12.82	288478	14.47
7M129380.D	SMB108852	85239	2.63	141716	5.83	562434	6.83	325682	8.27	518412	9.74	336852	12.82	278962	14.47
7M129381.D	AD38595-002	90956	2.63	156634	5.82	611665	6.83	337612	8.27	494680	9.74	345651	12.82	338948	14.47
7M129382.D	AD38595-002(MS)	87237	2.63	142318	5.82	555746	6.84	312012	8.27	492352	9.74	353701	12.83	361470	14.47
7M129383.D	AD38595-002(MSD)	84806	2.64	141295	5.82	543230	6.84	302809	8.27	461731	9.74	325803	12.82	337157	14.48
7M129384.D	AD38613-007(10X)	67498	2.62	119129	5.82	471790	6.83	247674	8.27	402334	9.74	324152	12.82	315258	14.47
7M129385.D	AD38613-009(5X)	71621	2.62	131373	5.82	522559	6.83	294607	8.27	462809	9.74	328796	12.82	325848	14.47
7M129386.D	AD38469-005(3X)	67580	2.62	116153	5.82	391173	6.84	239636	8.27	393765	9.75	339599	12.82	305280	14.47
7M129387.D	AD38493-010(3X)	72666	2.62	127405	5.82	514523	6.83	292115	8.27	458653	9.74	315138	12.82	320473	14.47
7M129388.D	AD38493-007(5X)	71315	2.63	129232	5.82	516806	6.83	288128	8.27	452075	9.74	323118	12.83	332070	14.47
7M129389.D	AD38518-001	76351	2.62	129823	5.82	509116	6.83	274720	8.27	433696	9.74	327476	12.83	323263	14.47
7M129390.D	AD38518-006	71768	2.62	126911	5.82	516073	6.83	288045	8.27	456200	9.74	336117	12.82	325143	14.47
7M129391.D	AD38556-001	54988	2.61	95208	5.82	384173	6.83	215108	8.27	338059	9.74	238546	12.82	225642	14.47
7M129392.D	AD38556-005	67700	2.62	121462	5.82	488246	6.83	274477	8.27	422193	9.74	292374	12.82	301336	14.48
7M129393.D	AD38556-003(3X)	70922	2.63	127492	5.83	503687	6.83	280698	8.27	430649	9.75	292233	12.83	310234	14.49
7M129394.D	AD38556-003(3X)(MS)	72214	2.63	127719	5.83	495299	6.83	278097	8.27	443610	9.74	308982	12.83	308769	14.48
7M129395.D	AD38556-003(3X)(MS	65777	2.63	116971	5.83	455852	6.83	254707	8.27	408886	9.74	282703	12.83	286541	14.48
7M129396.D	AD38555-007(5X)	50383	2.63	88247	5.83	349571	6.83	193082	8.27	301054	9.74	212146	12.82	192115	14.47
7M129397.D	AD38571-001	55138	2.61	97439	5.82	377870	6.83	207535	8.27	322330	9.74	231520	12.82	215017	14.47
7M129398.D	AD38571-002(3X)	52007	2.62	93457	5.82	368142	6.83	203259	8.27	313003	9.74	220983	12.82	208702	14.47
7M129399.D	AD38571-003(3X)	48965	2.63	89292	5.82	352495	6.83	196519	8.27	307313	9.74	214901	12.82	200060	14.47
7M129400.D	AD38571-004	51414	2.62	89561	5.82	353398	6.83	197471	8.27	305302	9.74	219547	12.82	197799	14.47
7M129401.D	AD38571-005(5X)	69231	2.65	130390	5.83	501284	6.83	281032	8.27	418250	9.74	308736	12.82	294550	14.47
7M129402.D	AD38571-006(3X)	48725	2.63	87055	5.83	338152	6.83	186241	8.27	287447	9.74	204147	12.82	185370	14.47
7M129403.D	AD38571-007	59022	2.62	99571	5.83	402267	6.83	223442	8.27	345750	9.74	250089	12.83	239028	14.48
7M129404.D	AD38571-008	55960	2.61	96482	5.82	378943	6.83	206980	8.27	319984	9.74	228360	12.83	209074	14.48
7M129405.D	AD38571-009	79847	2.63	137279	5.83	533768	6.83	291082	8.27	451458	9.74	331672	12.83	311283	14.49
7M129406.D	AD38571-010	55706	2.62	93034	5.83	357561	6.83	190684	8.27	294353	9.75	223266	12.83	199883	14.48

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

3061310 0306

FORM8

Internal Standard Areas

Evaluation Std Data File: 9M122399.D Method: EPA 8270E

Analysis Date/Time: 06/21/23 15:54

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	26640	2.58	50083	5.81	180242	6.82	97587	8.25	177029	9.71	162620	12.75	168107	14.37
Eval File Area Limit:	13320-53280		25042-100166		90121-360484		48794-195174		88514-354058		81310-325240		84054-336214	
Eval File Rt Limit:	2.08-3.08		5.31-6.31		6.32-7.32		7.75-8.75		9.21-10.21		12.25-13.25		13.87-14.87	

Data File	Sample#													
9M122400.D	SMB108834	26581	2.56	51317	5.81	197022	6.82	107731	8.24	190669	9.71	173225	12.75	154134	14.37
9M122401.D	SMB108852	29419	2.56	54433	5.81	204399	6.82	110371	8.25	198555	9.71	176789	12.75	174463	14.37
9M122402.D	SMB108867	28920	2.55	54237	5.81	201497	6.82	114097	8.24	200764	9.71	182585	12.75	181236	14.37
9M122403.D	SMB108868	30447	2.56	55381	5.81	203733	6.82	115738	8.24	205532	9.71	185758	12.75	181009	14.37
9M122404.D	AD38537-001	35827	2.56	50564	5.81	189300	6.82	103454	8.24	187038	9.70	169600	12.75	164733	14.37
9M122405.D	AD38537-003	38688	2.56	67244	5.81	248097	6.82	137007	8.24	242489	9.71	214062	12.75	219988	14.37
9M122406.D	AD38537-005	36074	2.56	57973	5.81	207335	6.82	96519	8.25	186100	9.71	182769	12.75	190793	14.37
9M122407.D	AD38537-006	31305	2.57	56469	5.81	209284	6.82	115056	8.24	203481	9.71	179433	12.75	182101	14.37
9M122408.D	AD38537-008	31256	2.56	54080	5.81	203824	6.82	112173	8.24	199410	9.71	178266	12.75	177352	14.37
9M122409.D	AD38513-003	31131	2.56	58046	5.81	216819	6.82	118567	8.24	206990	9.71	183271	12.75	184885	14.37
9M122410.D	AD38513-005	30547	2.55	58064	5.81	212454	6.82	116882	8.24	209646	9.70	187438	12.75	185420	14.37
9M122411.D	AD38513-006	29422	2.56	56449	5.81	205910	6.82	113899	8.24	201923	9.71	181969	12.75	178280	14.37
9M122412.D	AD38555-011	31699	2.56	58790	5.81	219383	6.82	121650	8.24	214404	9.71	190236	12.75	188959	14.37
9M122413.D	AD38555-013	31673	2.57	58237	5.81	217617	6.82	119327	8.24	214838	9.71	190989	12.75	184933	14.37
9M122414.D	AD38623-001	32132	2.57	59940	5.81	222940	6.82	122851	8.24	217403	9.71	178663	12.75	180334	14.37

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

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FORM8

Internal Standard Areas

Evaluation Std Data File: 7M129408.D Method: EPA 8270E

Analysis Date/Time: 06/22/23 09:43

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	60390	2.62	101269	5.83	421098	6.84	261573	8.27	461073	9.75	342013	12.83	340225	14.49
Eval File Area Limit:	30195-120780		50634-202538		210549-842196		130786-523146		230536-922146		171006-684026		170112-680450	
Eval File Rt Limit:	2.12-3.12		5.33-6.33		6.34-7.34		7.77-8.77		9.25-10.25		12.33-13.33		13.99-14.99	
Data File Sample#														
7M129409.D AD38615-021	47622	2.61	79738	5.83	316109	6.84	168911	8.27	260510	9.75	197377	12.83	195791	14.49
7M129410.D AD38555-009	58219	2.62	100702	5.83	401980	6.84	223548	8.27	344026	9.75	248160	12.83	241505	14.49
7M129411.D SMB108868	64711	2.62	121265	5.83	486458	6.84	282399	8.27	446977	9.75	314872	12.83	303083	14.48
7M129412.D AD38555-015(10X)	45572	2.62	80204	5.83	318561	6.84	174643	8.28	269579	9.76	190618	12.85	201652	14.50
7M129413.D AD38537-004	61798	2.62	102193	5.83	404558	6.84	223561	8.27	355750	9.75	254146	12.83	255300	14.49
7M129414.D AD38537-002	56428	2.61	96081	5.83	382013	6.84	213513	8.27	335269	9.75	239975	12.83	231920	14.48
7M129415.D SMB108875	90702	2.62	107826	5.83	429451	6.84	245029	8.27	390109	9.75	276230	12.83	263242	14.48
7M129416.D AD38537-007(3X)	46125	2.63	79940	5.83	318768	6.84	180768	8.27	286763	9.75	201033	12.83	189578	14.48
7M129417.D SMB108876	79688	2.61	79666	5.83	311441	6.84	178579	8.27	287941	9.75	197623	12.82	184256	14.48
7M129418.D AD38513-004	45933	2.61	79350	5.83	318529	6.84	177534	8.27	286210	9.75	202723	12.83	194815	14.49
7M129419.D AD38513-007(5X)	63535	2.63	118217	5.83	462036	6.84	254641	8.27	401505	9.76	288056	12.85	312409	14.51
7M129420.D AD38513-008(3X)	46739	2.63	84362	5.83	331400	6.84	183743	8.27	287054	9.75	202916	12.84	211806	14.49
7M129421.D AD38513-009	53003	2.62	92502	5.83	364632	6.84	201714	8.27	317770	9.75	228765	12.83	226664	14.49
7M129422.D AD38555-009(MS)	44111	2.61	75480	5.83	292609	6.84	167619	8.27	272336	9.75	192288	12.83	188633	14.49
7M129423.D AD38555-009(MSD)	45278	2.61	79314	5.83	308281	6.84	177186	8.27	285743	9.75	206612	12.83	201951	14.48

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

GC/MS Base Neutral/Acid Extractable Data
Sample Data

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38537-001
Client Id: SB-1 10-14
Data File: 9M122404.D
Analysis Date: 06/21/23 18:10
Date Rec/Extracted: 06/13/23-06/21/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 91

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	0.037	U	218-01-9	Chrysene	0.037	U
83-32-9	Acenaphthene	0.037	U	53-70-3	Dibenzo[a,h]anthracene	0.037	U
208-96-8	Acenaphthylene	0.037	U	206-44-0	Fluoranthene	0.037	U
120-12-7	Anthracene	0.037	U	86-73-7	Fluorene	0.037	U
56-55-3	Benzo[a]anthracene	0.037	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.037	U
50-32-8	Benzo[a]pyrene	0.037	U	91-20-3	Naphthalene	0.0092	U
205-99-2	Benzo[b]fluoranthene	0.037	U	85-01-8	Phenanthrene	0.037	U
191-24-2	Benzo[g,h,i]perylene	0.037	U	129-00-0	Pyrene	0.037	U
207-08-9	Benzo[k]fluoranthene	0.037	U				

Worksheet #: 696126

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

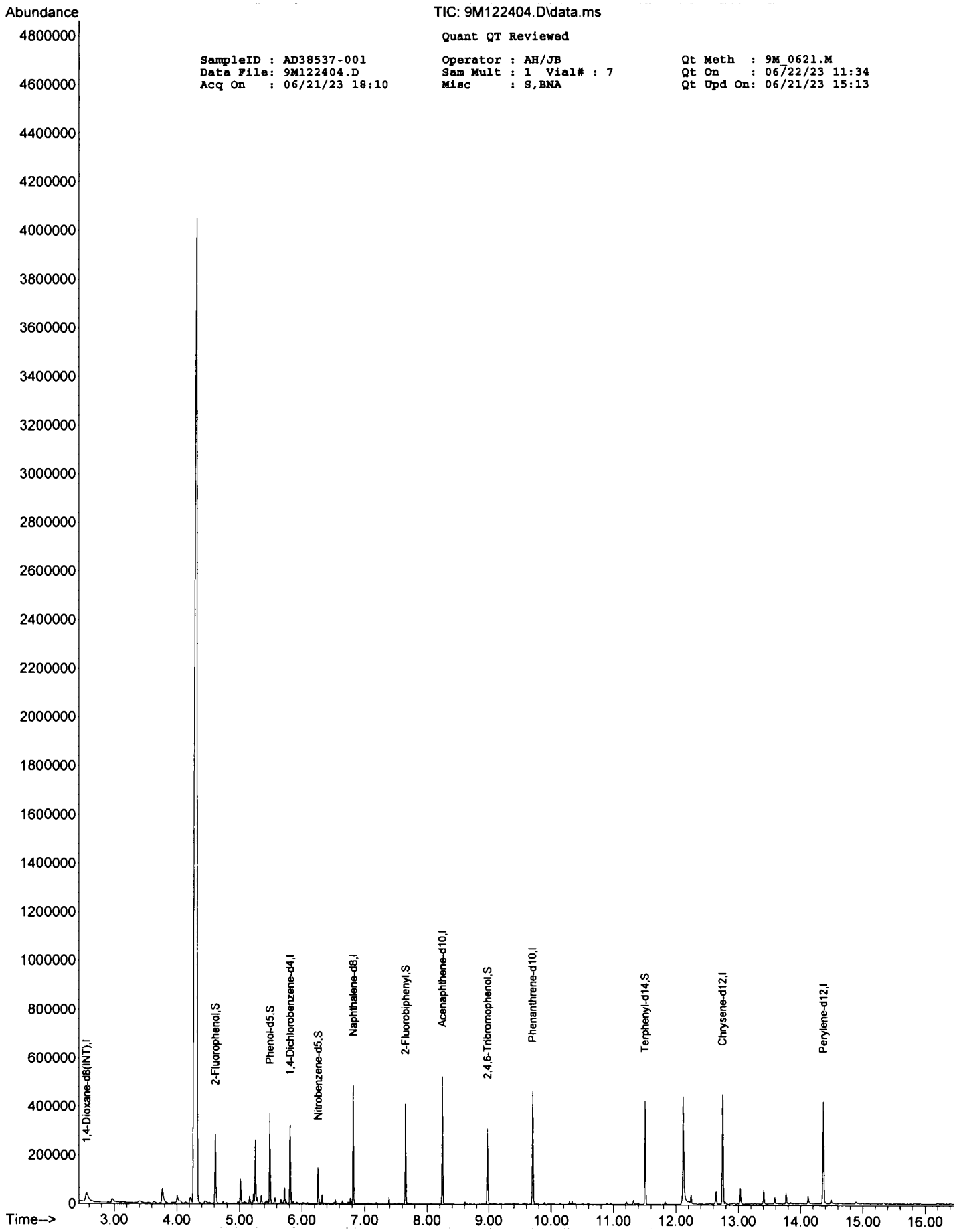
Quantitation Report (QT Reviewed)

SampleID : AD38537-001 Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122404.D Sam Mult : 1 Vial# : 7 Qt On : 06/22/23 11:34
Acq On : 06/21/23 18:10 Misc : S,BNA Qt Upd On: 06/21/23 15:13

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-2123\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.561	96	35827	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.813	152	50564	40.00	ng	0.00
31) Naphthalene-d8	6.819	136	189300	40.00	ng	0.00
50) Acenaphthene-d10	8.242	164	103454	40.00	ng	0.00
77) Phenanthrene-d10	9.701	188	187038	40.00	ng	0.00
91) Chrysene-d12	12.748	240	169600	40.00	ng	0.00
103) Perylene-d12	14.366	264	164733	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.619	112	83327	39.85	ng	0.01
Spiked Amount 100.000			Recovery = 39.85%			
16) Phenol-d5	5.490	99	105761	42.26	ng	0.00
Spiked Amount 100.000			Recovery = 42.26%			
32) Nitrobenzene-d5	6.260	128	21156	26.54	ng	0.00
Spiked Amount 50.000			Recovery = 53.08%			
55) 2-Fluorobiphenyl	7.654	172	111031	29.94	ng	0.00
Spiked Amount 50.000			Recovery = 59.88%			
80) 2,4,6-Tribromophenol	8.978	330	33382	71.44	ng	0.00
Spiked Amount 100.000			Recovery = 71.44%			
94) Terphenyl-d14	11.507	244	132957	39.88	ng	0.00
Spiked Amount 50.000			Recovery = 79.76%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M122404.D\data.ms
Quant QT Reviewed
SampleID : AD38537-001
Data File: 9M122404.D
Acq On : 06/21/23 18:10
Operator : AH/JB
Sam Mult : 1 Vial# : 7
Misc : S,BNA
Qt Meth : 9M_0621.M
Qt On : 06/22/23 11:34
Qt Upd On: 06/21/23 15:13
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38537-002
Client Id: SB-3 0-5
Data File: 7M129414.D
Analysis Date: 06/22/23 12:19
Date Rec/Extracted: 06/13/23-06/21/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	0.037	U	**218-01-9**	**Chrysene**	**0.037**	**0.071**
83-32-9	Acenaphthene	0.037	U	53-70-3	Dibenzo[a,h]anthracene	0.037	U
208-96-8	Acenaphthylene	0.037	U	**206-44-0**	**Fluoranthene**	**0.037**	**0.067**
120-12-7	Anthracene	0.037	U	86-73-7	Fluorene	0.037	U
56-55-3	**Benzo[a]anthracene**	**0.037**	**0.062**	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.037**	**0.050**
50-32-8	**Benzo[a]pyrene**	**0.037**	**0.083**	91-20-3	Naphthalene	0.0094	U
205-99-2	**Benzo[b]fluoranthene**	**0.037**	**0.10**	**85-01-8**	**Phenanthrene**	**0.037**	**0.041**
191-24-2	**Benzo[g,h,i]perylene**	**0.037**	**0.058**	**129-00-0**	**Pyrene**	**0.037**	**0.071**
207-08-9	Benzo[k]fluoranthene	0.037	U				

Worksheet #: 696126

Total Target Concentration 0.6

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

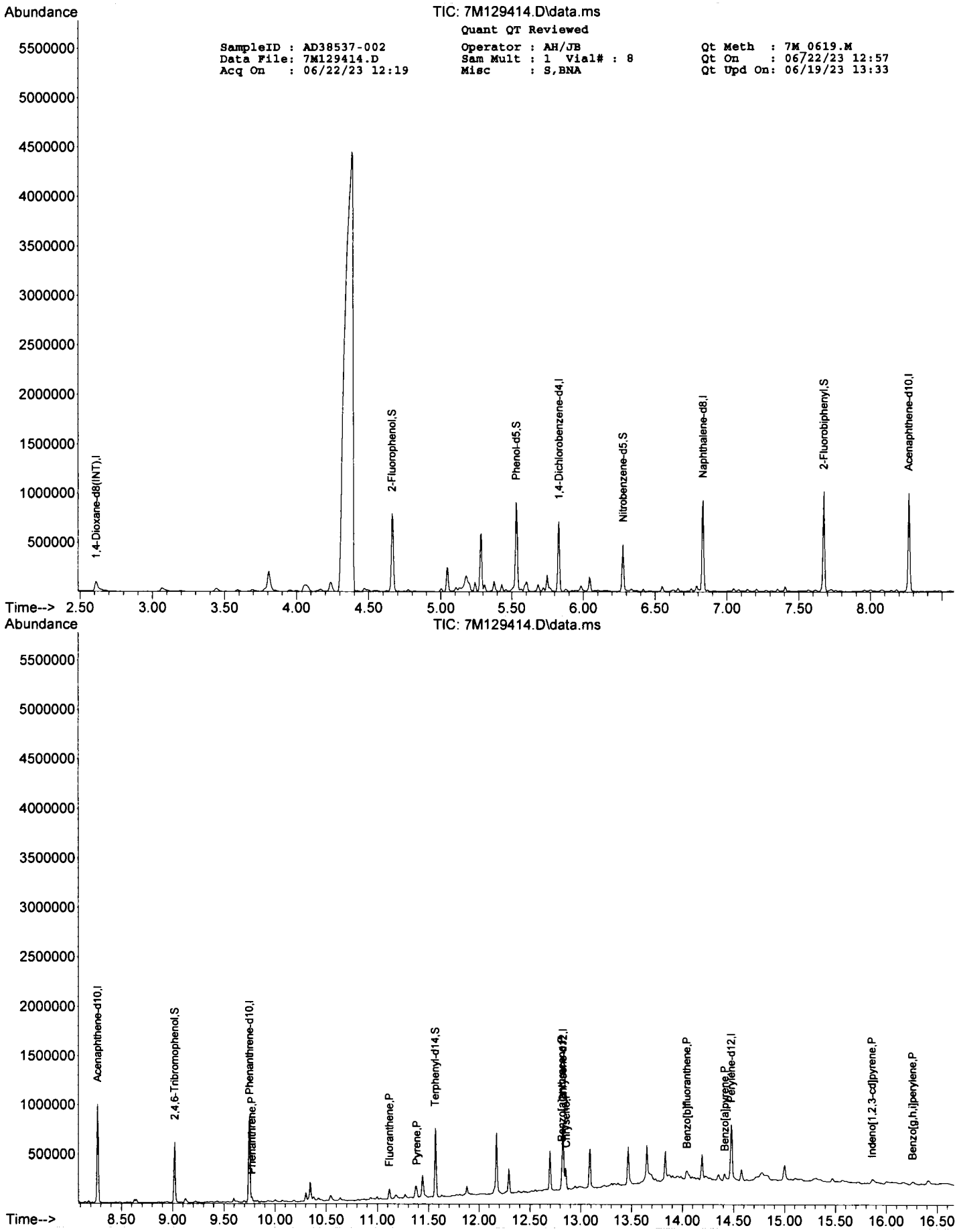
Quantitation Report (QT Reviewed)

SampleID : AD38537-002 Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129414.D Sam Mult : 1 Vial# : 8 Qt On : 06/22/23 12:57
Acq On : 06/22/23 12:19 Misc : S,BNA Qt Upd On: 06/19/23 13:33

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-22-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.611	96	56428	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.830	152	96081	40.00	ng	0.00
31) Naphthalene-d8	6.835	136	382013	40.00	ng	0.00
50) Acenaphthene-d10	8.269	164	213513	40.00	ng	0.00
77) Phenanthrene-d10	9.749	188	335269	40.00	ng	0.00
91) Chrysene-d12	12.828	240	239975	40.00	ng	0.00
103) Perylene-d12	14.479	264	231920	40.00	ng	-0.01
System Monitoring Compounds						
11) 2-Fluorophenol	4.661	112	228856	67.09	ng	0.02
Spiked Amount 100.000			Recovery = 67.09%			
16) Phenol-d5	5.531	99	293303	72.78	ng	0.01
Spiked Amount 100.000			Recovery = 72.78%			
32) Nitrobenzene-d5	6.277	128	61992	35.12	ng	0.00
Spiked Amount 50.000			Recovery = 70.24%			
55) 2-Fluorobiphenyl	7.675	172	274329	39.39	ng	0.00
Spiked Amount 50.000			Recovery = 78.78%			
80) 2,4,6-Tribromophenol	9.021	330	56985	75.93	ng	0.00
Spiked Amount 100.000			Recovery = 75.93%			
94) Terphenyl-d14	11.565	244	215512	41.37	ng	0.00
Spiked Amount 50.000			Recovery = 82.74%			
Target Compounds						Qvalue
86) Phenanthrene	9.773	178	19586	2.1970	ng	98
90) Fluoranthene	11.118	202	35225	3.5941	ng	95
92) Pyrene	11.383	202	33772	3.7758	ng	91
100) Benzo[a]anthracene	12.816	228	25973m	3.2884	ng	
101) Chrysene	12.858	228	26406	3.8150	ng	96
105) Benzo[b]fluoranthene	14.044	252	41088m	5.5204	ng	
107) Benzo[a]pyrene	14.415	252	28353	4.4205	ng	91
108) Indeno[1,2,3-cd]pyrene	15.860	276	19705	2.6478	ng	86
110) Benzo[g,h,i]perylene	16.260	276	19125	3.1172	ng	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
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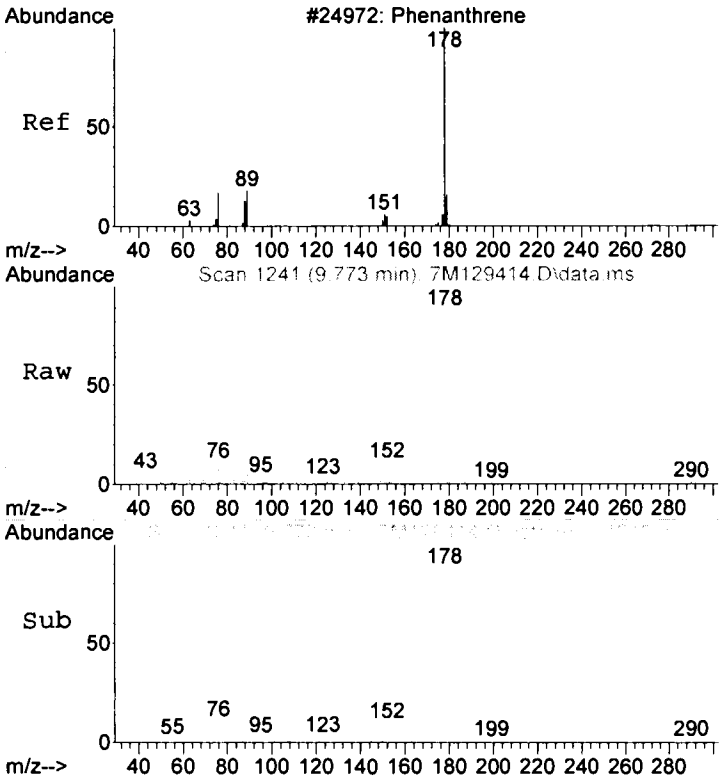
Quant QT Reviewed
SampleID : AD38537-002
Data File: 7M129414.D
Acq On : 06/22/23 12:19
Operator : AH/JB
Sam Mult : 1 Vial# : 8
Misc : S,BNA
Qt Meth : 7M_0619.M
Qt On : 06/22/23 12:57
Qt Upd On: 06/19/23 13:33
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Time-->

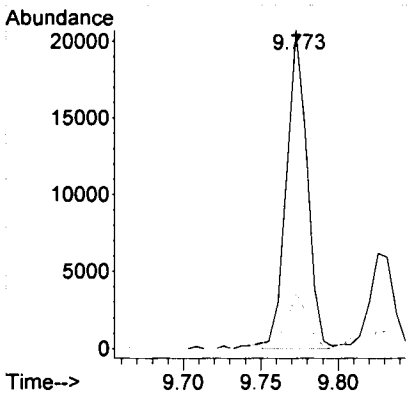
Abundance
TIC: 7M129414.D\data.ms
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Benzo[b]fluoranthene,P
Benzo[a]pyrene,P
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,P
Benzo[g,h,i]perylene,P
Time-->

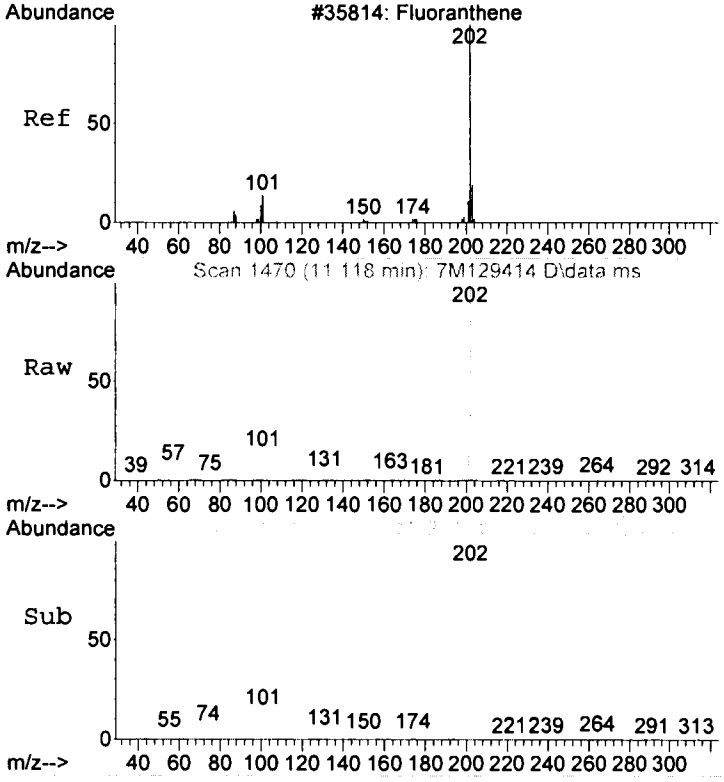


#86
Phenanthrene
Concen: 2.20 ng
RT: 9.773 min Scan# 1241
Delta R.T. -0.000 min
Lab File: 7M129414.D
Acq: 22 Jun 2023 12:19

Tgt Ion:178 Resp: 19586

Ion	Ratio	Lower	Upper
178	100		
179	17.2	0.0	55.5
176	18.7	0.0	59.3

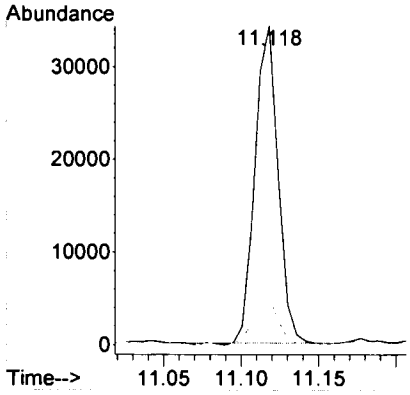


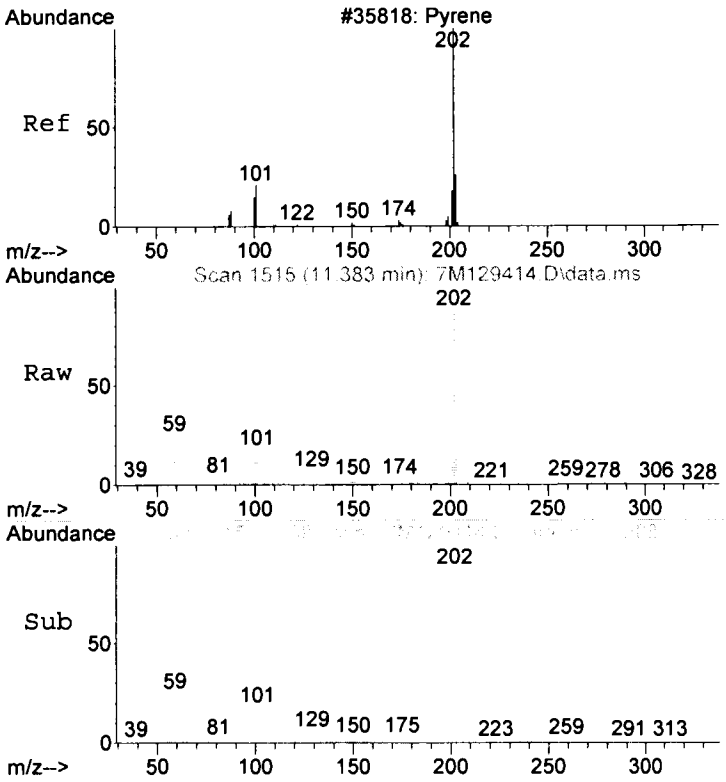


#90
Fluoranthene
Concen: 3.59 ng
RT: 11.118 min Scan# 1470
Delta R.T. 0.006 min
Lab File: 7M129414.D
Acq: 22 Jun 2023 12:19

Tgt Ion:202 Resp: 35225

Ion	Ratio	Lower	Upper
202	100		
101	15.2	0.0	57.6

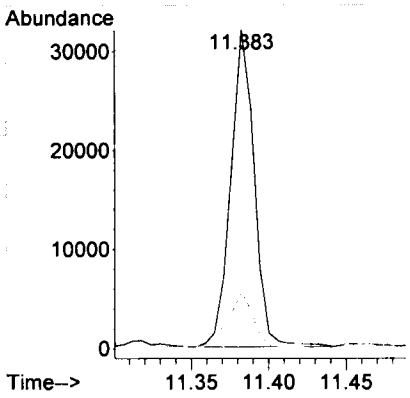


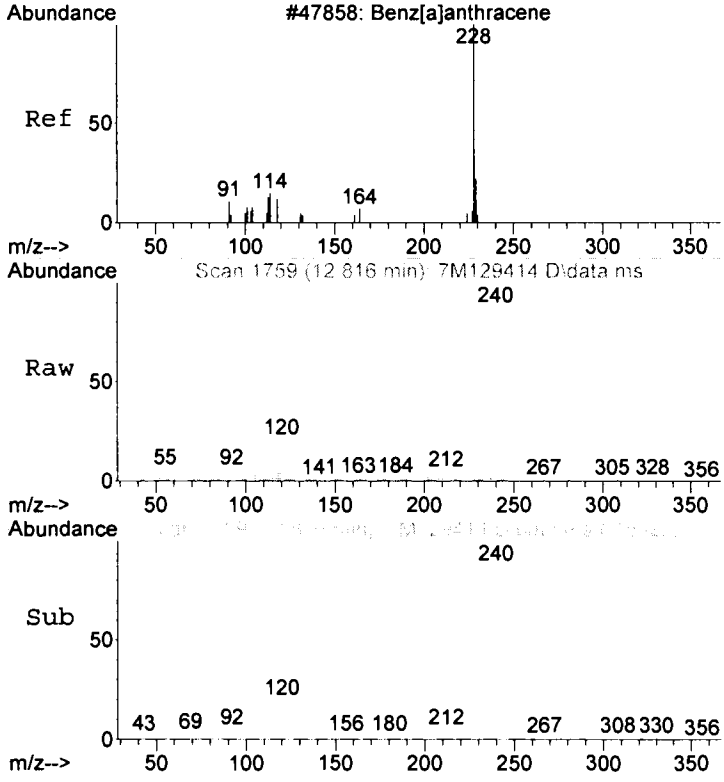


#92
Pyrene
Concen: 3.78 ng
RT: 11.383 min Scan# 1515
Delta R.T. 0.006 min
Lab File: 7M129414.D
Acq: 22 Jun 2023 12:19

Tgt Ion:202 Resp: 33772

Ion	Ratio	Lower	Upper
202	100		
101	17.0	0.0	62.2
100	14.9	0.0	57.8

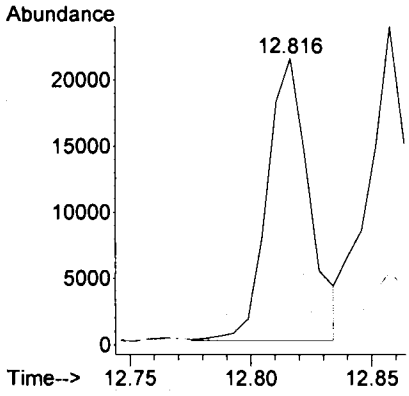


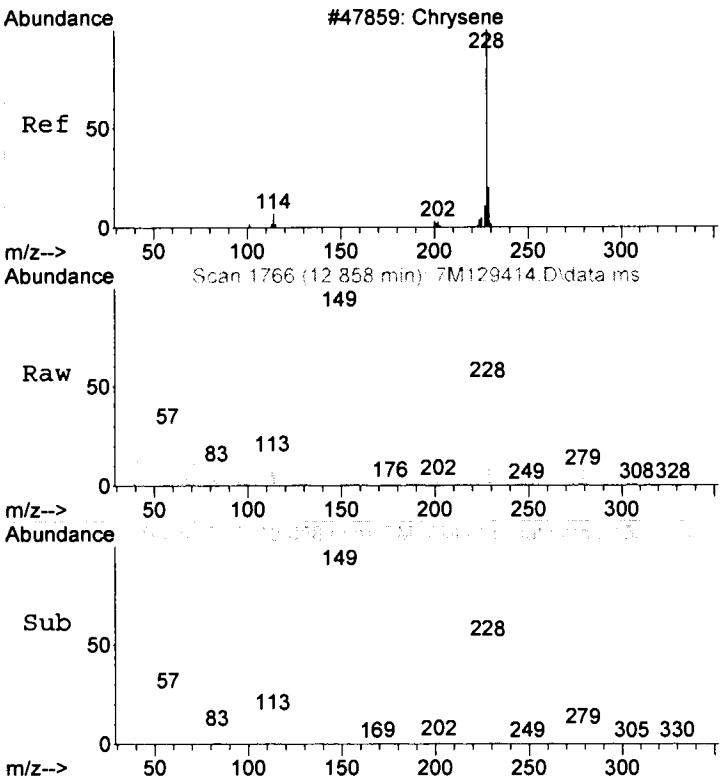


#100
Benzo[a]anthracene
Concen: 3.29 ng m
RT: 12.816 min Scan# 1759
Delta R.T. 0.006 min
Lab File: 7M129414.D
Acq: 22 Jun 2023 12:19

Tgt Ion:228 Resp: 25973

Ion	Ratio	Lower	Upper
228	100		
229	21.5	0.0	59.5
226	35.8	0.0	66.0

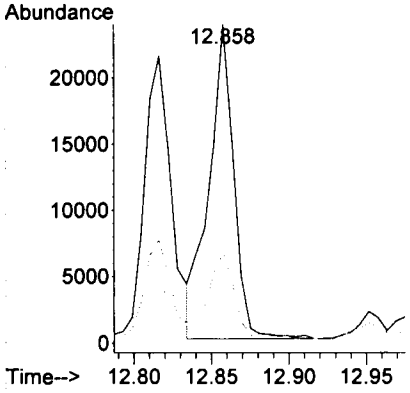


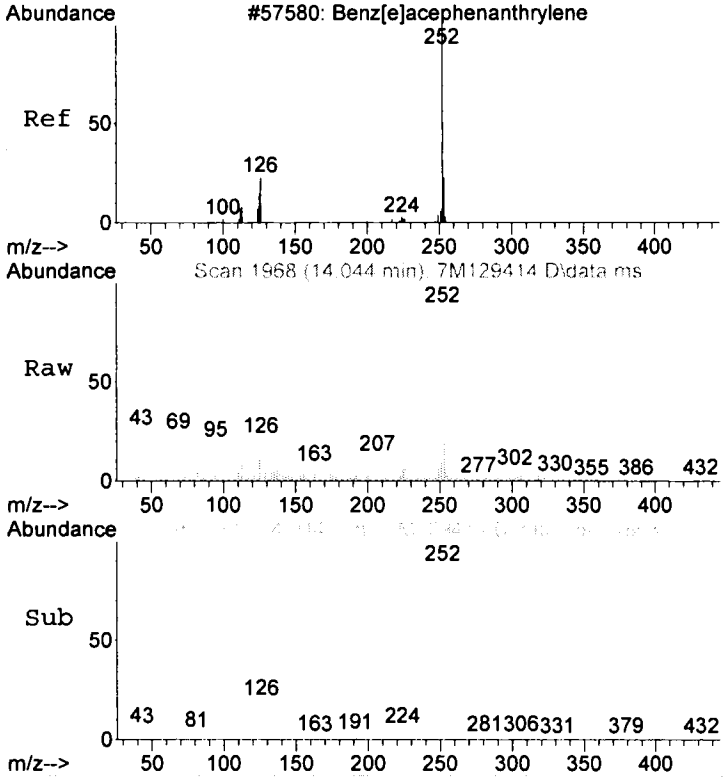


#101
Chrysene
Concen: 3.82 ng
RT: 12.858 min Scan# 1766
Delta R.T. 0.006 min
Lab File: 7M129414.D
Acq: 22 Jun 2023 12:19

Tgt Ion:228 Resp: 26406

Ion	Ratio	Lower	Upper
228	100		
226	26.8	9.5	49.5
229	19.3	0.0	60.2

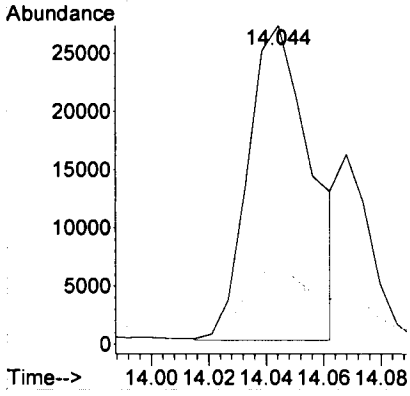


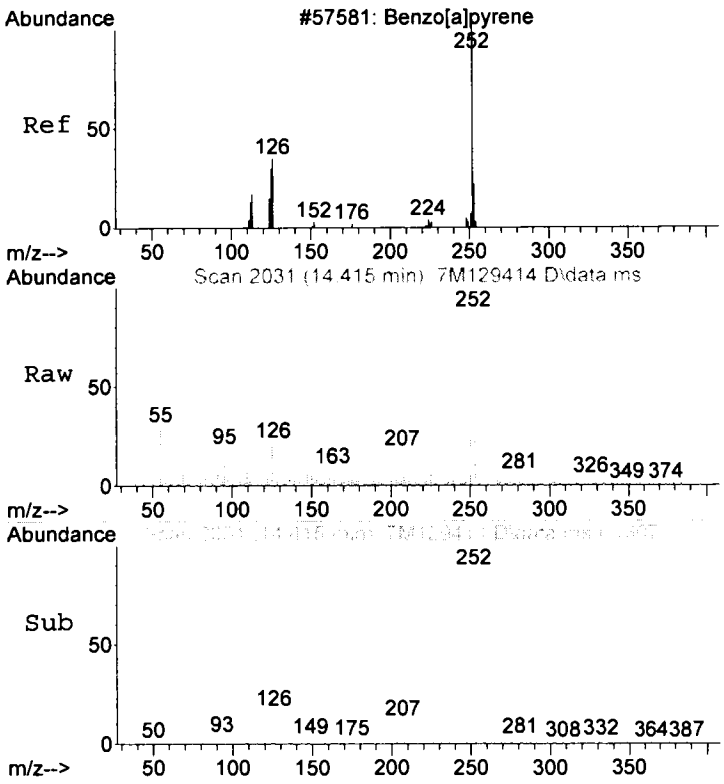


#105
Benzo[b]fluoranthene
Concen: 5.52 ng m
RT: 14.044 min Scan# 1968
Delta R.T. -0.012 min
Lab File: 7M129414.D
Acq: 22 Jun 2023 12:19

Tgt Ion:252 Resp: 41088

Ion	Ratio	Lower	Upper
252	100		
253	25.1	0.0	62.3
125	22.4	0.0	58.4

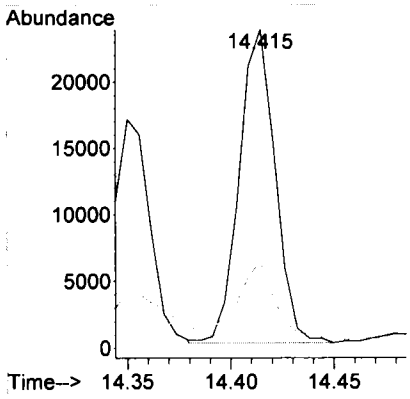


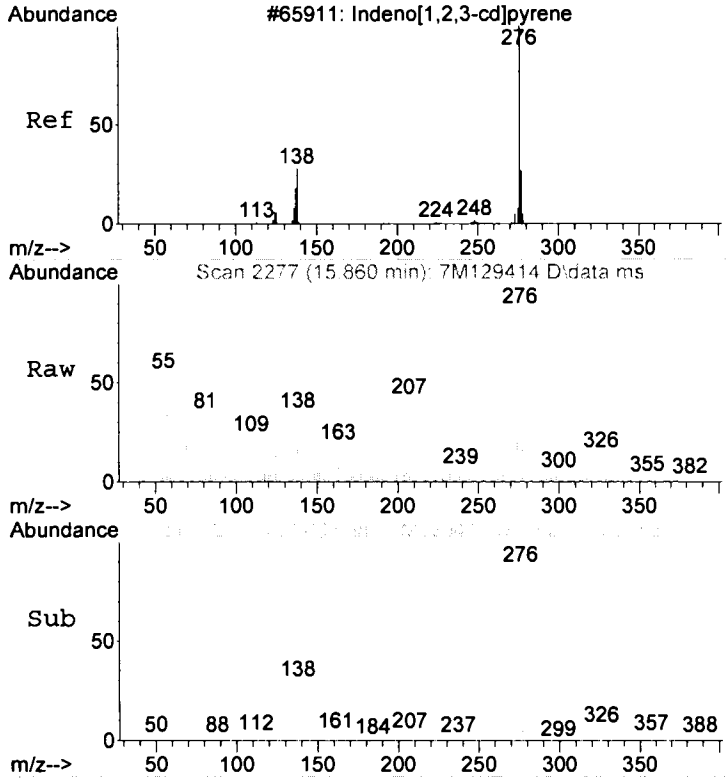


#107
Benzo[a]pyrene
Concen: 4.42 ng
RT: 14.415 min Scan# 2031
Delta R.T. -0.012 min
Lab File: 7M129414.D
Acq: 22 Jun 2023 12:19

Tgt Ion:252 Resp: 28353

Ion	Ratio	Lower	Upper
252	100		
253	24.1	0.0	62.4
125	14.4	0.0	60.9

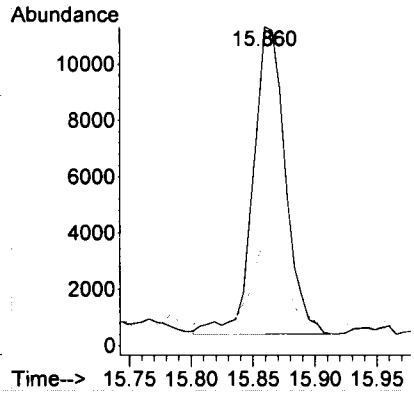


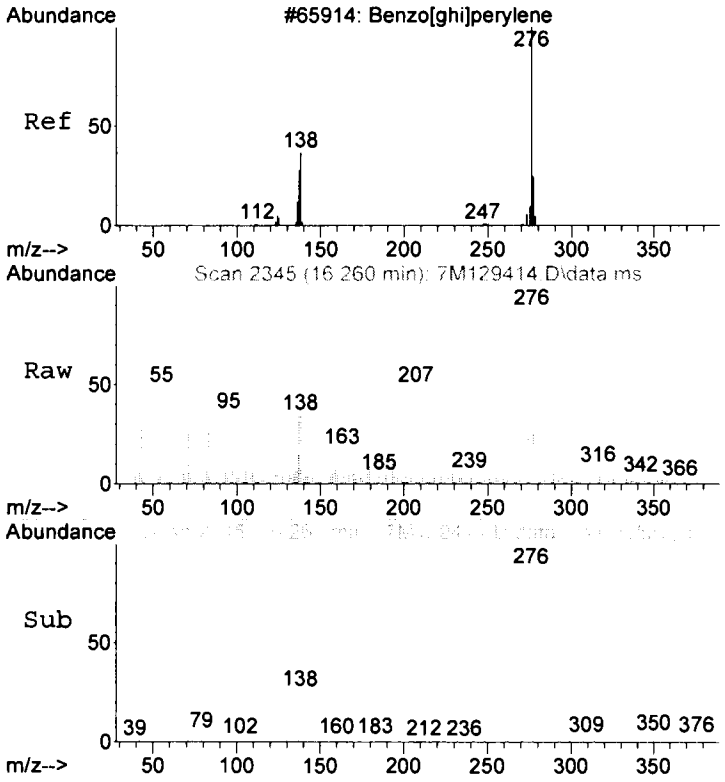


#108
Indeno[1,2,3-cd]pyrene
Concen: 2.65 ng
RT: 15.860 min Scan# 2277
Delta R.T. -0.012 min
Lab File: 7M129414.D
Acq: 22 Jun 2023 12:19

Tgt Ion:276 Resp: 19705

Ion	Ratio	Lower	Upper
276	100		
138	30.2	0.0	78.9

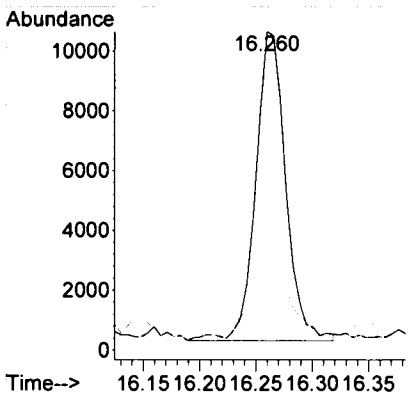




#110
Benzo[g,h,i]perylene
Concen: 3.12 ng
RT: 16.260 min Scan# 2345
Delta R.T. -0.018 min
Lab File: 7M129414.D
Acq: 22 Jun 2023 12:19

Tgt Ion:276 Resp: 19125

Ion	Ratio	Lower	Upper
276	100		
138	33.3	0.0	60.0
277	27.2	6.0	34.0



Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38537-003
Client Id: SB-4 10-12.5
Data File: 9M122405.D
Analysis Date: 06/21/23 18:33
Date Rec/Extracted: 06/13/23-06/21/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 84

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	0.040	U	**218-01-9**	**Chrysene**	**0.040**	**0.044**
83-32-9	Acenaphthene	0.040	U	53-70-3	Dibenzo[a,h]anthracene	0.040	U
208-96-8	Acenaphthylene	0.040	U	**206-44-0**	**Fluoranthene**	**0.040**	**0.074**
120-12-7	Anthracene	0.040	U	86-73-7	Fluorene	0.040	U
56-55-3	**Benzo[a]anthracene**	**0.040**	**0.046**	193-39-5	Indeno[1,2,3-cd]pyrene	0.040	U
50-32-8	**Benzo[a]pyrene**	**0.040**	**0.045**	**91-20-3**	**Naphthalene**	**0.0099**	**0.013**
205-99-2	**Benzo[b]fluoranthene**	**0.040**	**0.048**	**85-01-8**	**Phenanthrene**	**0.040**	**0.095**
191-24-2	Benzo[g,h,i]perylene	0.040	U	**129-00-0**	**Pyrene**	**0.040**	**0.070**
207-08-9	Benzo[k]fluoranthene	0.040	U				

Worksheet #: 696126

Total Target Concentration 0.44

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

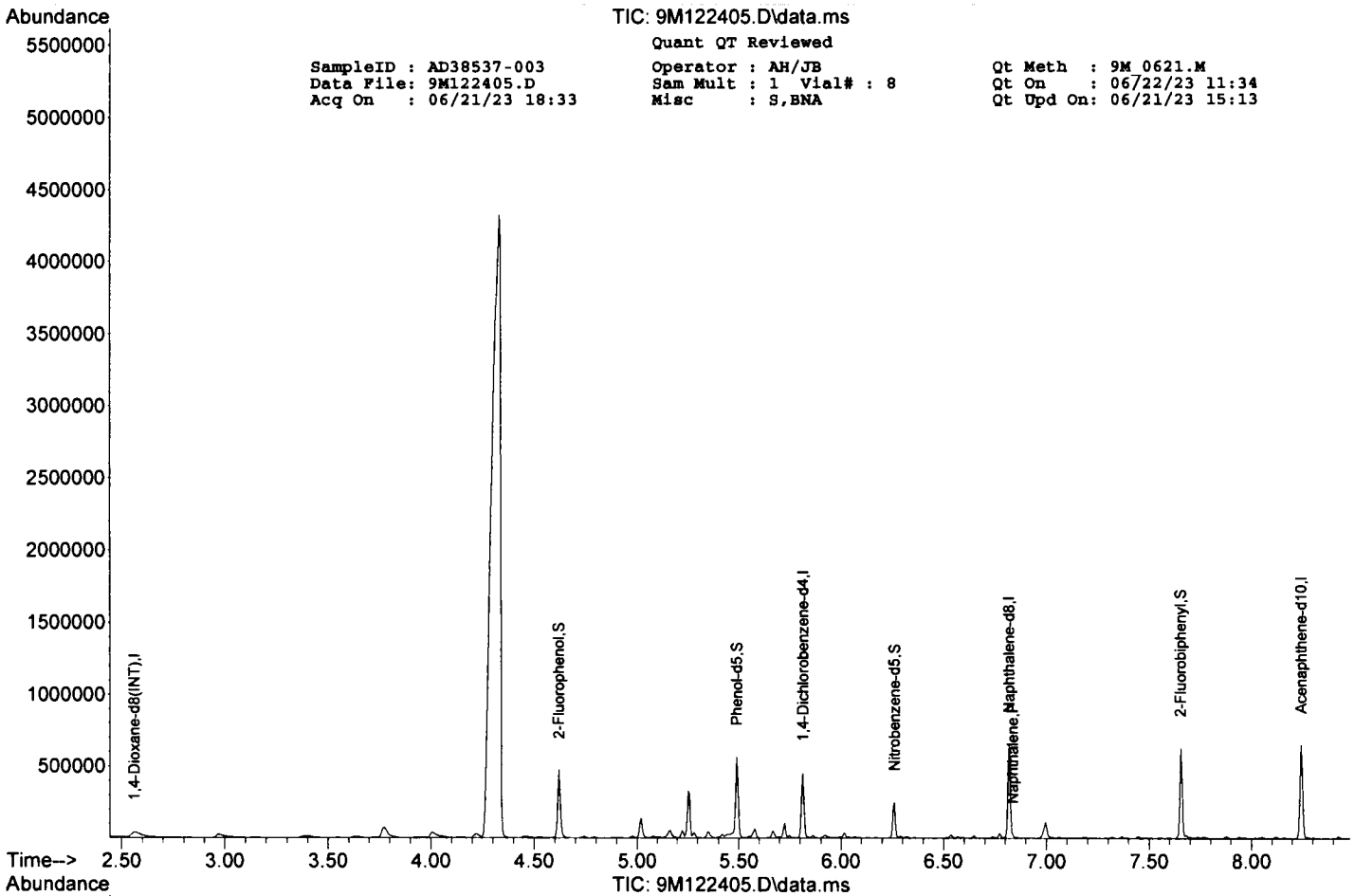
Quantitation Report (QT Reviewed)

SampleID : AD38537-003 Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122405.D Sam Mult : 1 Vial# : 8 Qt On : 06/22/23 11:34
Acq On : 06/21/23 18:33 Misc : S,BNA Qt Upd On: 06/21/23 15:13

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-2123\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.560	96	38688	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.813	152	67244	40.00	ng	0.00
31) Naphthalene-d8	6.819	136	248097	40.00	ng	0.00
50) Acenaphthene-d10	8.242	164	137007	40.00	ng	0.00
77) Phenanthrene-d10	9.707	188	242489	40.00	ng	0.00
91) Chrysene-d12	12.754	240	214062	40.00	ng	0.00
103) Perylene-d12	14.366	264	219988	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.619	112	128929	57.10	ng	0.01
Spiked Amount 100.000			Recovery = 57.10%			
16) Phenol-d5	5.490	99	164797	60.98	ng	0.00
Spiked Amount 100.000			Recovery = 60.98%			
32) Nitrobenzene-d5	6.260	128	34416	32.95	ng	0.00
Spiked Amount 50.000			Recovery = 65.90%			
55) 2-Fluorobiphenyl	7.654	172	173058	35.24	ng	0.00
Spiked Amount 50.000			Recovery = 70.48%			
80) 2,4,6-Tribromophenol	8.984	330	49984	82.50	ng	0.00
Spiked Amount 100.000			Recovery = 82.50%			
94) Terphenyl-d14	11.513	244	173255	41.17	ng	0.00
Spiked Amount 50.000			Recovery = 82.34%			
Target Compounds						Qvalue
41) Naphthalene	6.837	128	4587	0.6483	ng	100
86) Phenanthrene	9.731	178	31160	4.8038	ng	98
90) Fluoranthene	11.060	202	27325	3.7293	ng	89
92) Pyrene	11.325	202	25365	3.5383	ng	87
100) Benzo[a]anthracene	12.742	228	15963m	2.3321	ng	
101) Chrysene	12.783	228	14047	2.2102	ng	97
105) Benzo[b]fluoranthene	13.954	252	16751m	2.4260	ng	
107) Benzo[a]pyrene	14.301	252	13437	2.2778	ng	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
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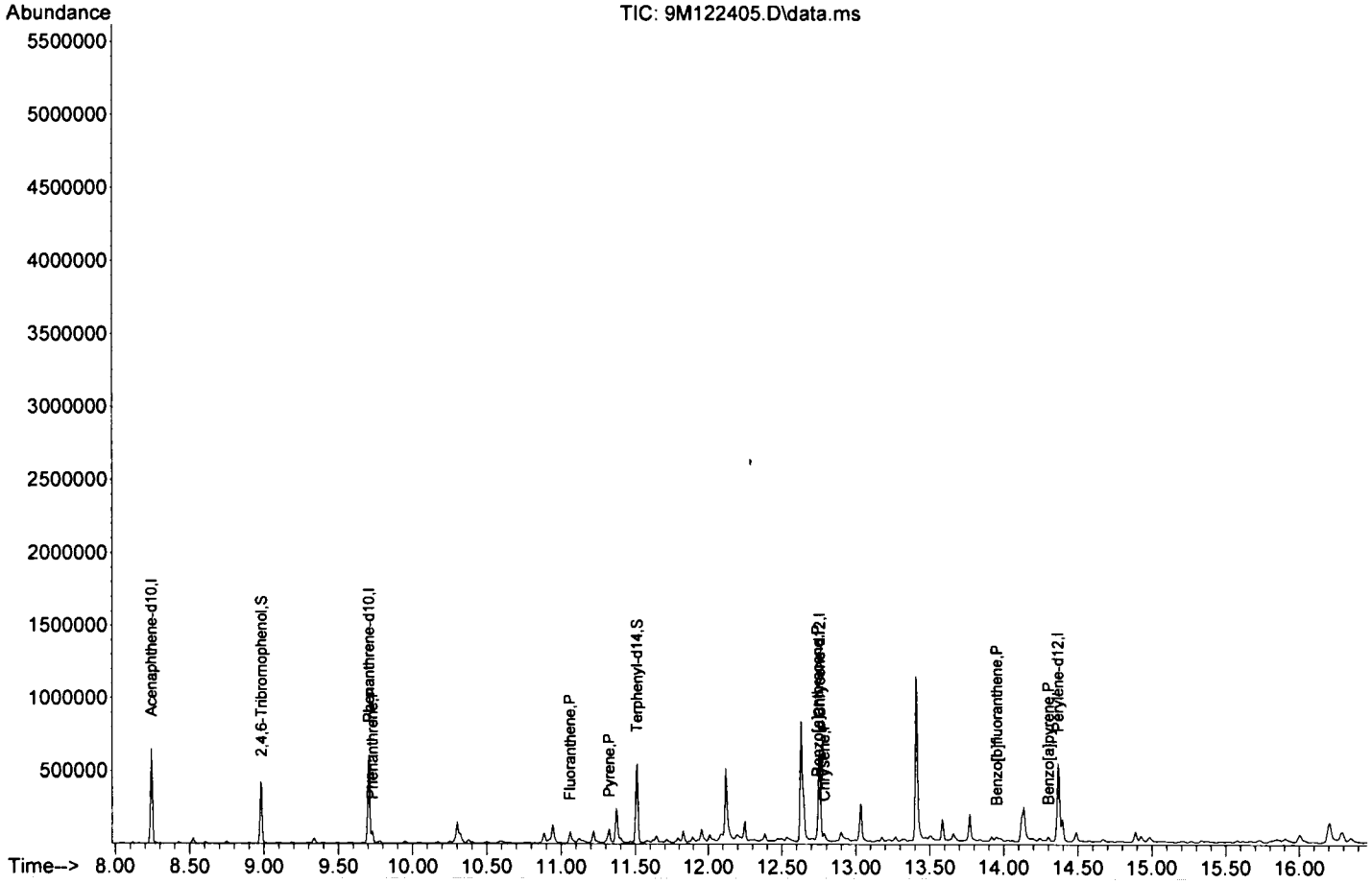
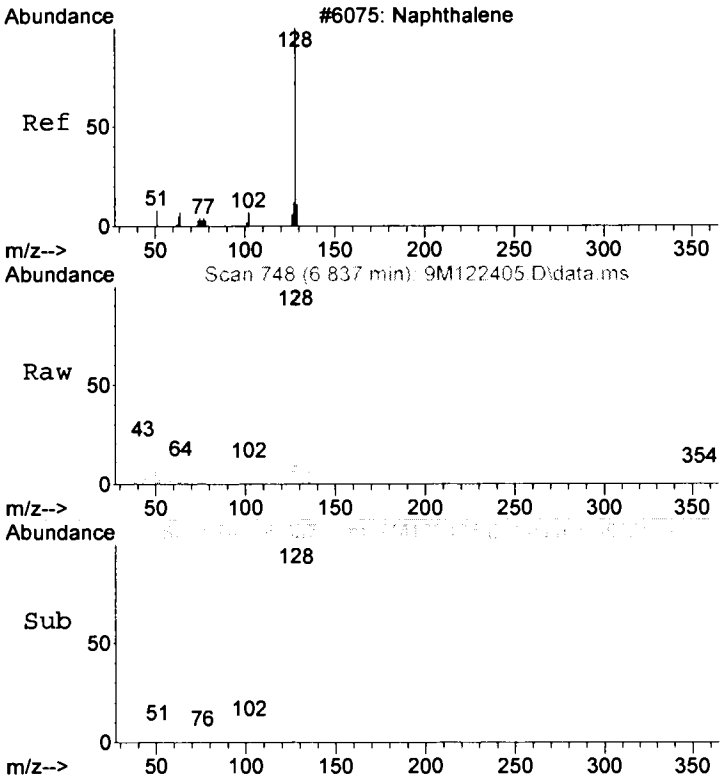
Quant QT Reviewed
SampleID : AD38537-003
Data File: 9M122405.D
Acq On : 06/21/23 18:33
Operator : AH/JB
Sam Mult : 1 Vial# : 8
Misc : S,BNA
Qt Meth : 9M_0621.M
Qt On : 06/22/23 11:34
Qt Upd On: 06/21/23 15:13
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Time-->

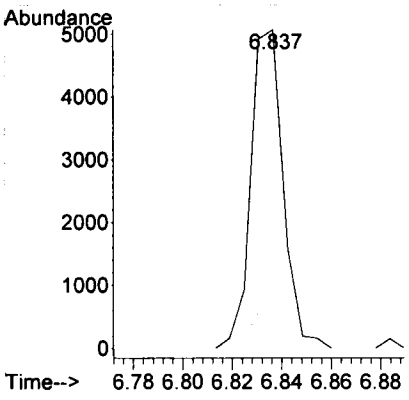

Abundance
TIC: 9M122405.D\data.ms
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Benzo(b)fluoranthene,P
Perylene-d12,I
Time-->

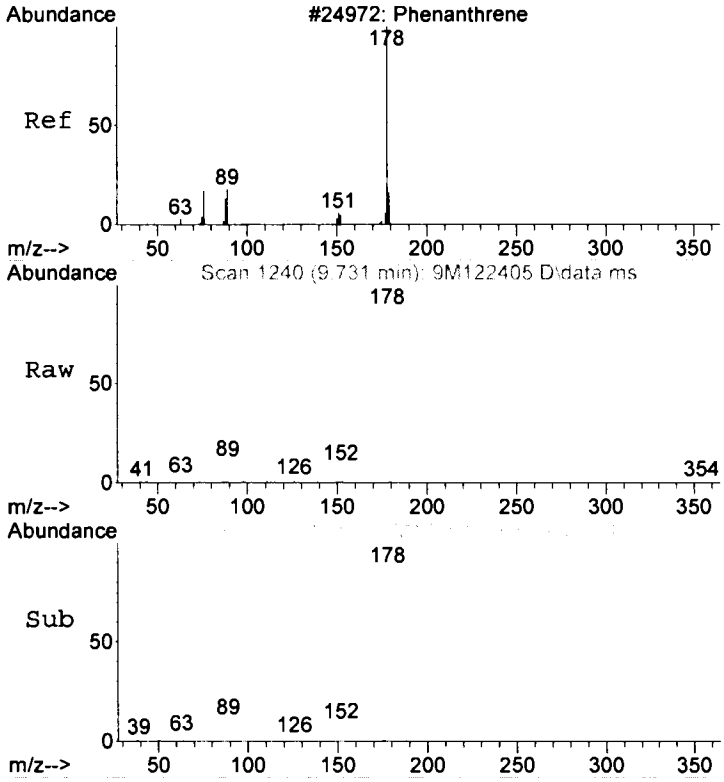


#41
Naphthalene
Concen: 0.65 ng
RT: 6.837 min Scan# 748
Delta R.T. -0.000 min
Lab File: 9M122405.D
Acq: 21 Jun 2023 18:33

Tgt Ion:128 Resp: 4587

Ion	Ratio	Lower	Upper
128	100		
129	10.9	0.0	50.9
127	12.7	0.0	52.4

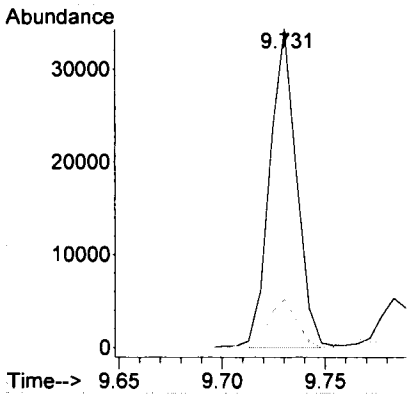


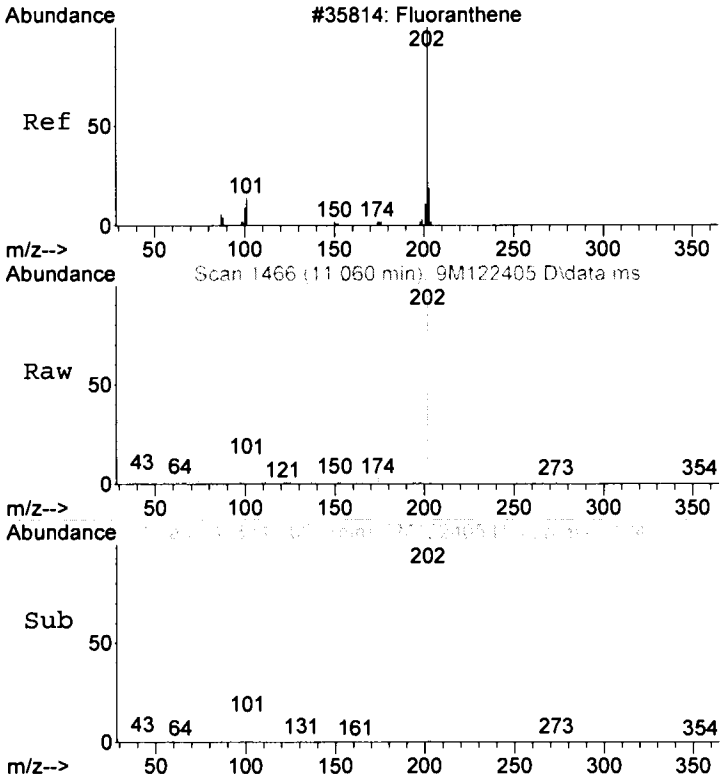


#86
Phenanthrene
Concen: 4.80 ng
RT: 9.731 min Scan# 1240
Delta R.T. -0.000 min
Lab File: 9M122405.D
Acq: 21 Jun 2023 18:33

Tgt Ion:178 Resp: 31160

Ion	Ratio	Lower	Upper
178	100		
179	15.1	0.0	55.5
176	18.3	0.0	59.3

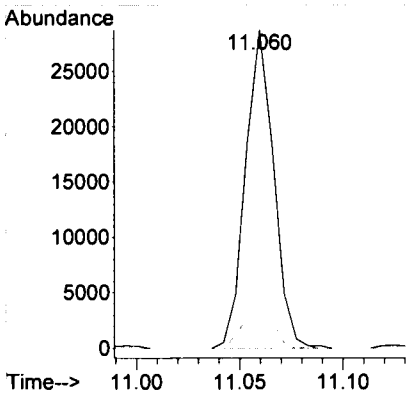


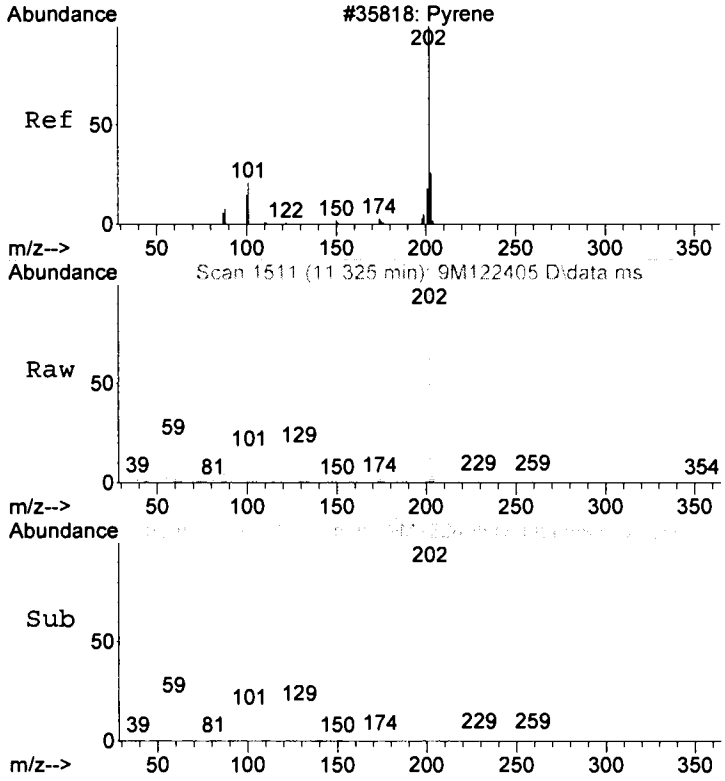


#90
Fluoranthene
Concen: 3.73 ng
RT: 11.060 min Scan# 1466
Delta R.T. -0.000 min
Lab File: 9M122405.D
Acq: 21 Jun 2023 18:33

Tgt Ion:202 Resp: 27325

Ion	Ratio	Lower	Upper
202	100		
101	12.9	0.0	57.6

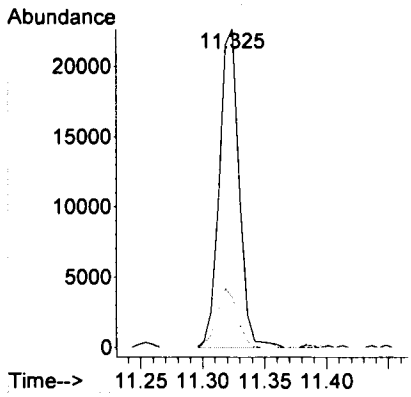


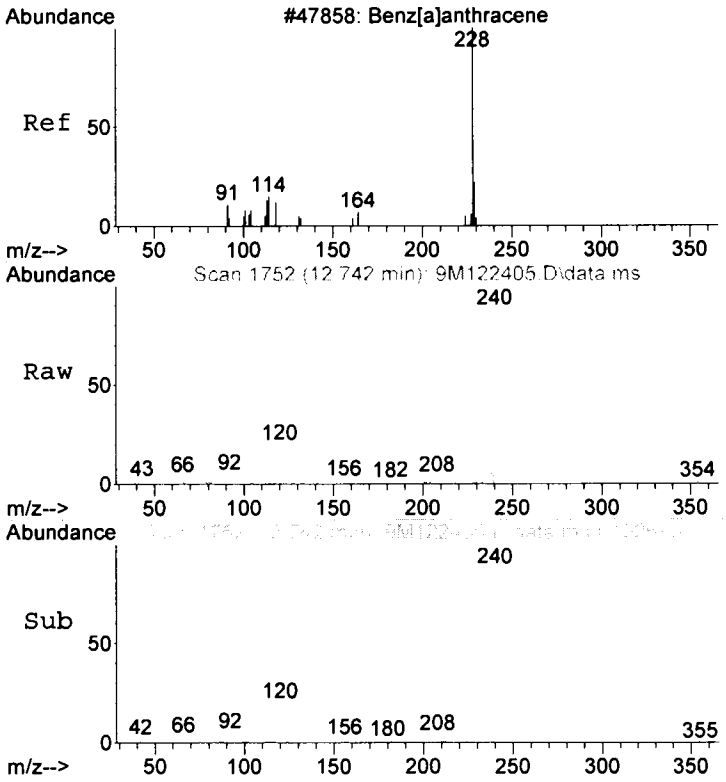


#92
Pyrene
Concen: 3.54 ng
RT: 11.325 min Scan# 1511
Delta R.T. -0.000 min
Lab File: 9M122405.D
Acq: 21 Jun 2023 18:33

Tgt Ion:202 Resp: 25365

Ion	Ratio	Lower	Upper
202	100		
101	15.7	0.0	62.2
100	12.6	0.0	57.8

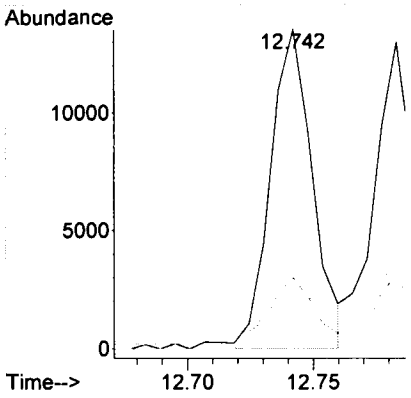


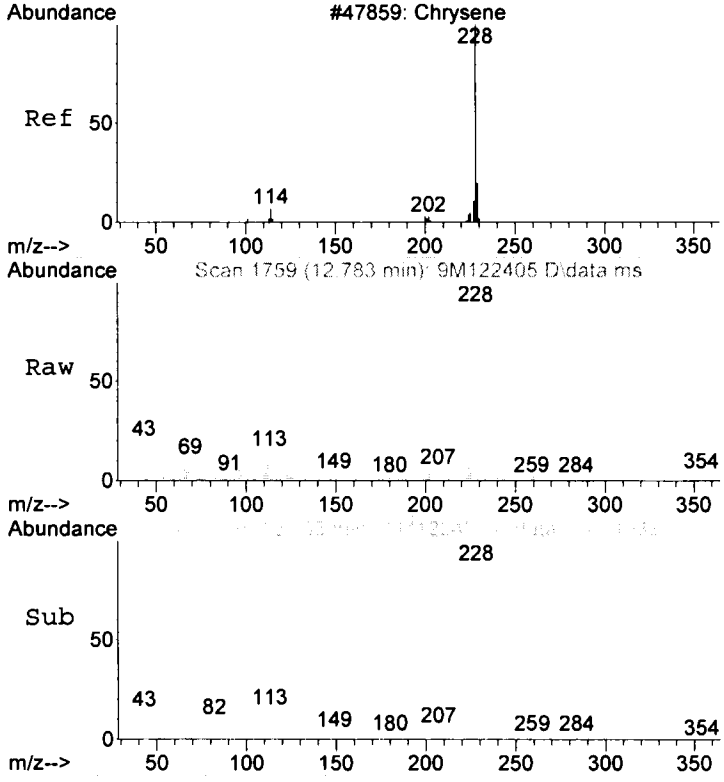


#100
Benzo[a]anthracene
Concen: 2.33 ng m
RT: 12.742 min Scan# 1752
Delta R.T. -0.000 min
Lab File: 9M122405.D
Acq: 21 Jun 2023 18:33

Tgt Ion:228 Resp: 15963

Ion	Ratio	Lower	Upper
228	100		
229	22.0	0.0	59.5
226	25.7	0.0	66.0

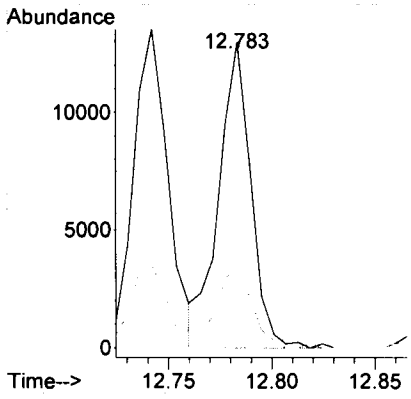


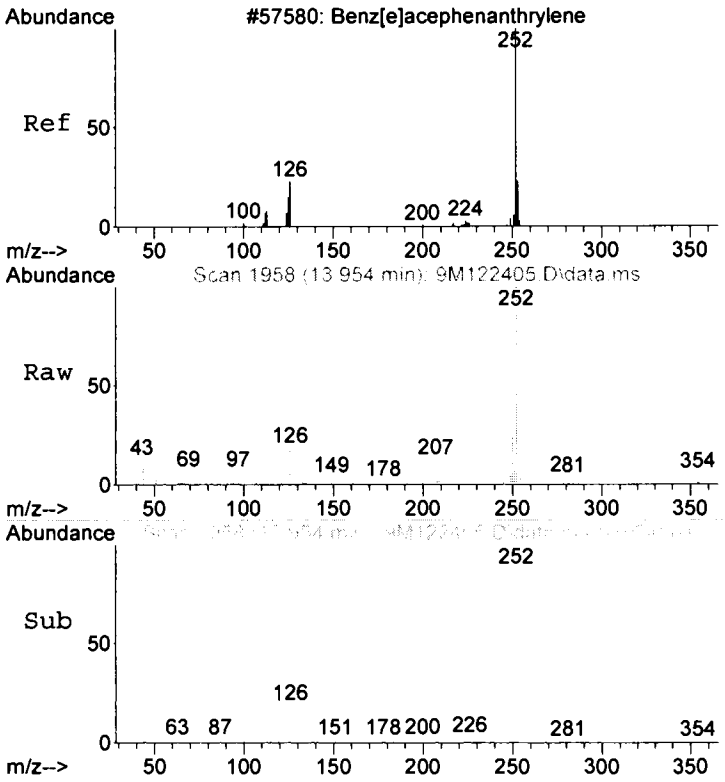


#101
Chrysene
Concen: 2.21 ng
RT: 12.783 min Scan# 1759
Delta R.T. -0.000 min
Lab File: 9M122405.D
Acq: 21 Jun 2023 18:33

Tgt Ion:228 Resp: 14047

Ion	Ratio	Lower	Upper
228	100		
226	28.1	9.5	49.5
229	21.7	0.0	60.2

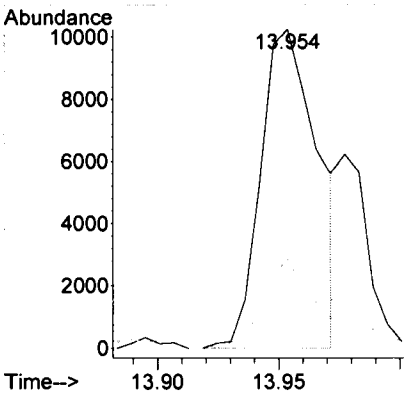


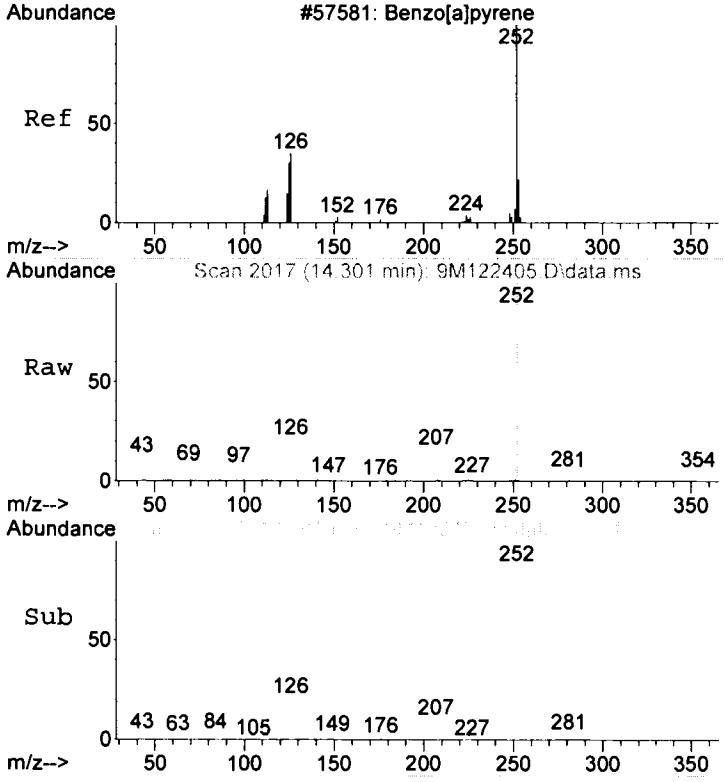


#105
Benzo[b]fluoranthene
Concen: 2.43 ng m
RT: 13.954 min Scan# 1958
Delta R.T. -0.000 min
Lab File: 9M122405.D
Acq: 21 Jun 2023 18:33

Tgt Ion:252 Resp: 16751

Ion	Ratio	Lower	Upper
252	100		
253	27.8	0.0	72.3
125	15.4	0.0	60.0

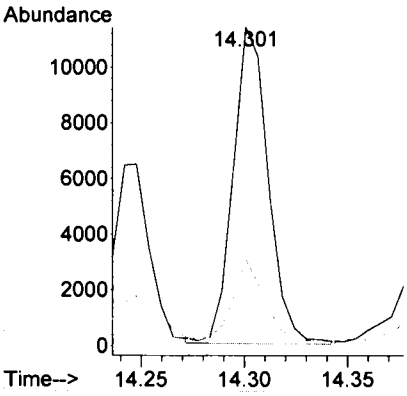




#107
Benzo[a]pyrene
Concen: 2.28 ng
RT: 14.301 min Scan# 2017
Delta R.T. -0.006 min
Lab File: 9M122405.D
Acq: 21 Jun 2023 18:33

Tgt Ion:252 Resp: 13437

Ion	Ratio	Lower	Upper
252	100		
253	26.1	0.0	62.4
125	15.4	0.0	60.9



Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38537-004
Client Id: SB-5 5-10
Data File: 7M129413.D
Analysis Date: 06/22/23 11:56
Date Rec/Extracted: 06/13/23-06/21/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 80

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	0.042	U	**218-01-9**	**Chrysene**	**0.042**	**1.3**
83-32-9	Acenaphthene	0.042	U	**53-70-3**	**Dibenzo[a,h]anthracene**	**0.042**	**0.24**
208-96-8	**Acenaphthylene**	**0.042**	**0.37**	**206-44-0**	**Fluoranthene**	**0.042**	**2.4**
120-12-7	**Anthracene**	**0.042**	**0.30**	**86-73-7**	**Fluorene**	**0.042**	**0.13**
56-55-3	**Benzo[a]anthracene**	**0.042**	**1.1**	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.042**	**0.75**
50-32-8	**Benzo[a]pyrene**	**0.042**	**1.3**	**91-20-3**	**Naphthalene**	**0.010**	**0.11**
205-99-2	**Benzo[b]fluoranthene**	**0.042**	**1.5**	**85-01-8**	**Phenanthrene**	**0.042**	**1.8**
191-24-2	**Benzo[g,h,i]perylene**	**0.042**	**0.95**	**129-00-0**	**Pyrene**	**0.042**	**2.5**
207-08-9	**Benzo[k]fluoranthene**	**0.042**	**0.42**				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

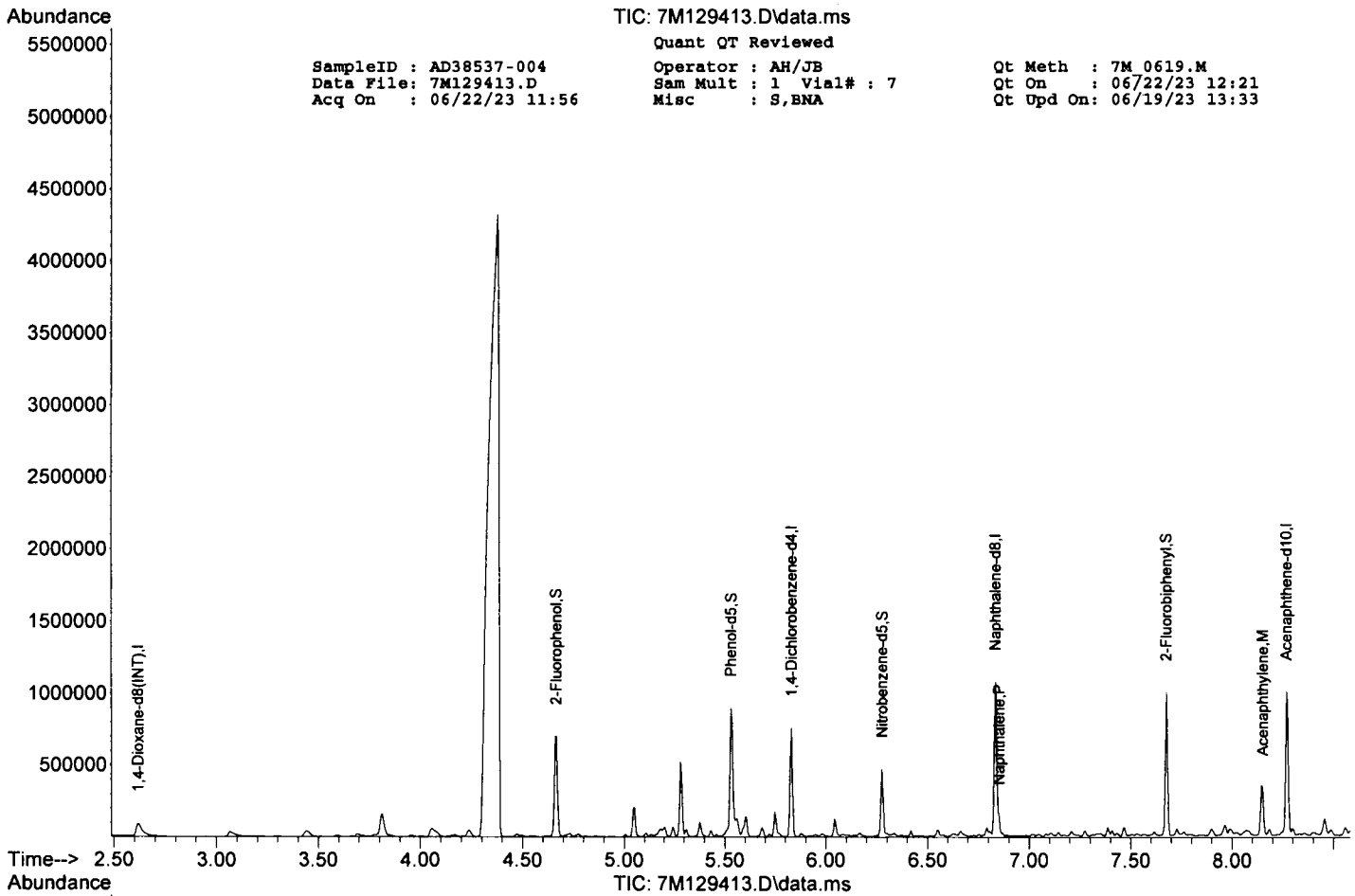
Quantitation Report (QT Reviewed)

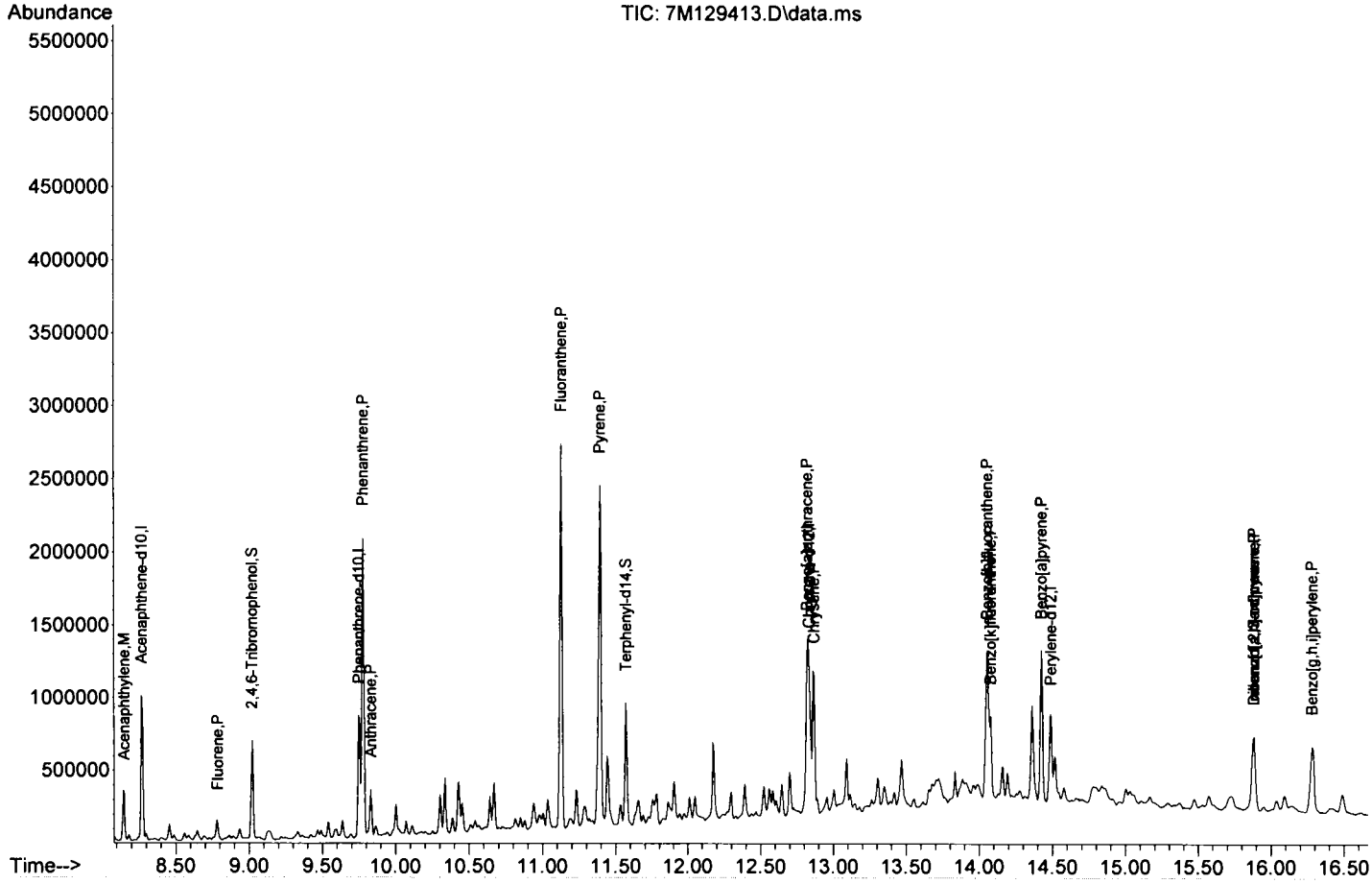
SampleID : AD38537-004 Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129413.D Sam Mult : 1 Vial# : 7 Qt On : 06/22/23 12:21
Acq On : 06/22/23 11:56 Misc : S,BNA Qt Upd On: 06/19/23 13:33

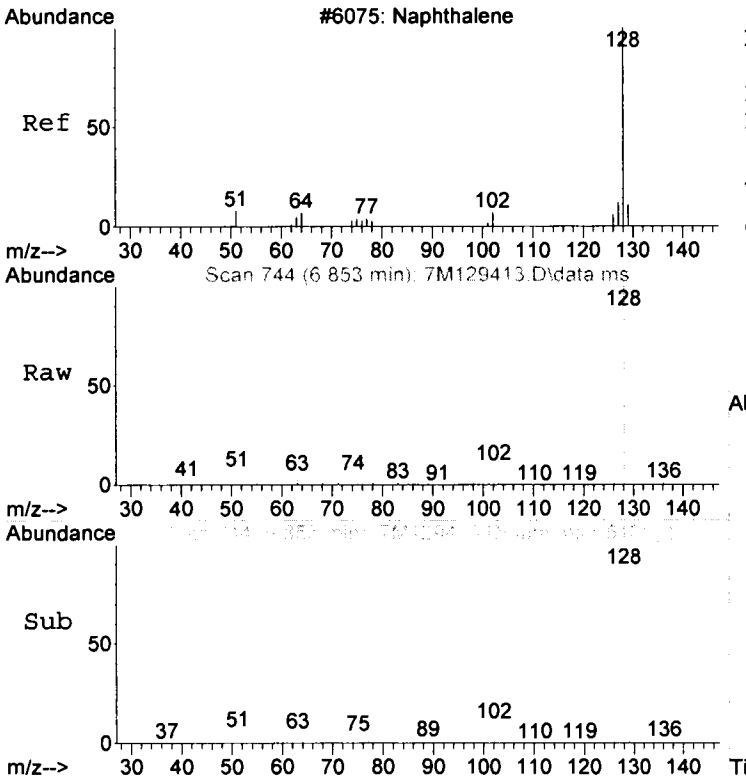
Data Path : G:\GcMsData\2023\GCMS_7\Data\06-22-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.617	96	61798	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.831	152	102193	40.00	ng	0.00
31) Naphthalene-d8	6.835	136	404558	40.00	ng	0.00
50) Acenaphthene-d10	8.269	164	223561	40.00	ng	0.00
77) Phenanthrene-d10	9.750	188	355750	40.00	ng	0.00
91) Chrysene-d12	12.834	240	254146	40.00	ng	0.01
103) Perylene-d12	14.491	264	255300	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.667	112	210758	56.42	ng	0.02
Spiked Amount 100.000			Recovery = 56.42%			
16) Phenol-d5	5.531	99	277001	62.77	ng	0.01
Spiked Amount 100.000			Recovery = 62.77%			
32) Nitrobenzene-d5	6.277	128	60027	32.11	ng	0.00
Spiked Amount 50.000			Recovery = 64.22%			
55) 2-Fluorobiphenyl	7.675	172	269271	36.92	ng	0.00
Spiked Amount 50.000			Recovery = 73.84%			
80) 2,4,6-Tribromophenol	9.021	330	56712	71.21	ng	0.00
Spiked Amount 100.000			Recovery = 71.21%			
94) Terphenyl-d14	11.571	244	217242	39.37	ng	0.01
Spiked Amount 50.000			Recovery = 78.74%			
Target Compounds						Qvalue
41) Naphthalene	6.853	128	54780	5.0633	ng	98
62) Acenaphthylene	8.151	152	156338	17.7247	ng	98
72) Fluorene	8.786	166	45099	6.2752	ng	98
86) Phenanthrene	9.779	178	813370	85.9864	ng	99
87) Anthracene	9.832	178	140665	14.6049	ng	98
90) Fluoranthene	11.130	202	1220434	117.3545	ng	91
92) Pyrene	11.395	202	1140741	120.4251	ng	87
100) Benzo[a]anthracene	12.822	228	447224m	53.4645	ng	
101) Chrysene	12.869	228	447926	61.1059	ng	98
105) Benzo[b]fluoranthene	14.056	252	571385m	69.7386	ng	
106) Benzo[k]fluoranthene	14.080	252	152209m	20.1861	ng	
107) Benzo[a]pyrene	14.427	252	432550	61.2622	ng	91
108) Indeno[1,2,3-cd]pyrene	15.884	276	293625	35.8416	ng	81
109) Dibenzo[a,h]anthracene	15.884	278	79614	11.6984	ng	65
110) Benzo[g,h,i]perylene	16.283	276	306694	45.4108	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 7M129413.D\data.ms
Quant QT Reviewed
SampleID : AD38537-004
Data File: 7M129413.D
Acq On : 06/22/23 11:56
Operator : AH/JB
Sam Mult : 1 Vial# : 7
Misc : S,BNA
Qt Meth : 7M_0619.M
Qt On : 06/22/23 12:21
Qt Upd On: 06/19/23 13:33
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
Naphthalene,P
2-Fluorobiphenyl,S
Acenaphthylene,M
Acenaphthene-d10,I
Time-->

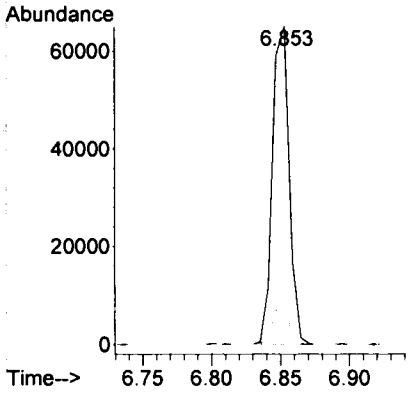

Abundance
TIC: 7M129413.D\data.ms
Acenaphthylene,M
Acenaphthene-d10,I
Fluorene,P
2,4,6-Tribromophenol,S
Phenanthrene,P
Phenanthrene-d10,I
Anthracene,P
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

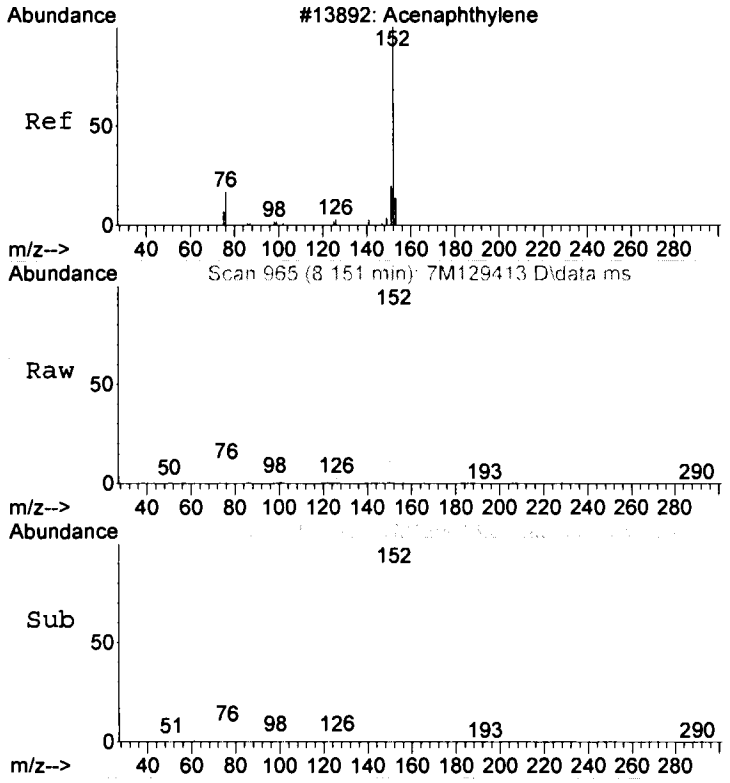


#41
Naphthalene
Concen: 5.06 ng
RT: 6.853 min Scan# 744
Delta R.T. 0.000 min
Lab File: 7M129413.D
Acq: 22 Jun 2023 11:56

Tgt Ion:128 Resp: 54780

Ion	Ratio	Lower	Upper
128	100		
129	11.3	0.0	50.9
127	13.6	0.0	52.4

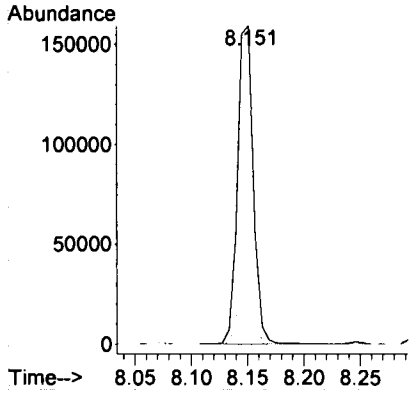


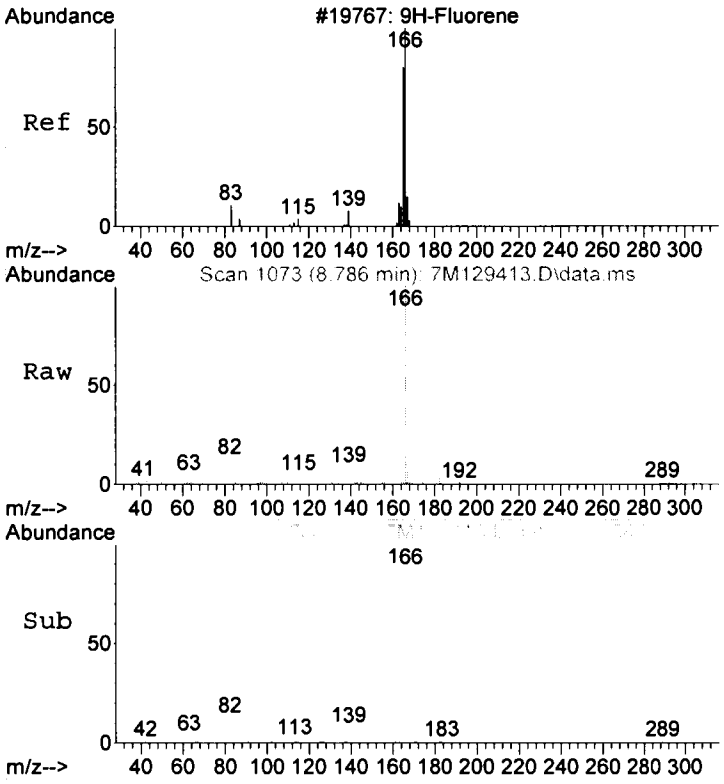


#62
Acenaphthylene
Concen: 17.72 ng
RT: 8.151 min Scan# 965
Delta R.T. 0.000 min
Lab File: 7M129413.D
Acq: 22 Jun 2023 11:56

Tgt Ion:152 Resp: 156338

Ion	Ratio	Lower	Upper
152	100		
151	20.3	0.0	59.2
153	12.7	0.0	53.2

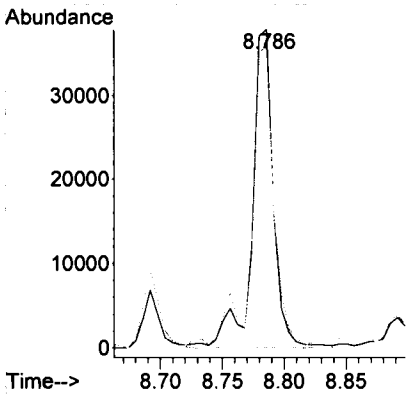


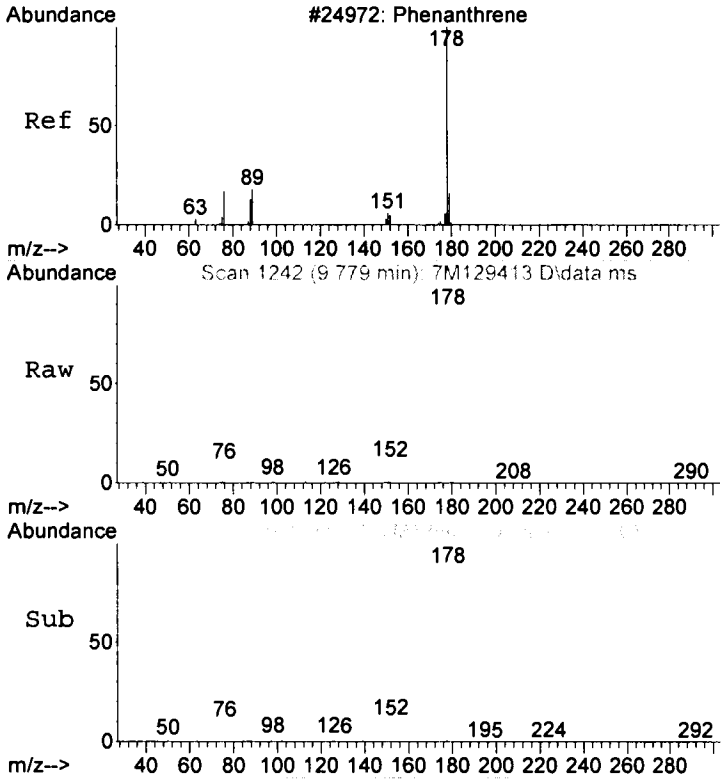


#72
Fluorene
Concen: 6.28 ng
RT: 8.786 min Scan# 1073
Delta R.T. 0.000 min
Lab File: 7M129413.D
Acq: 22 Jun 2023 11:56

Tgt Ion:166 Resp: 45099

Ion	Ratio	Lower	Upper
166	100		
165	94.1	0.0	292.6
167	14.2	0.0	213.2

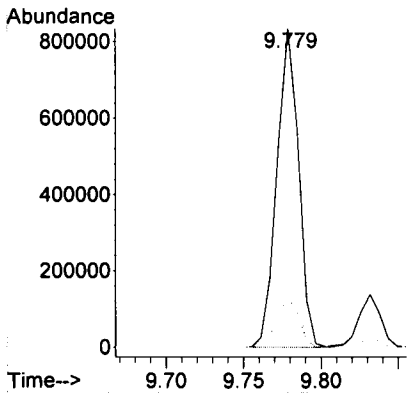


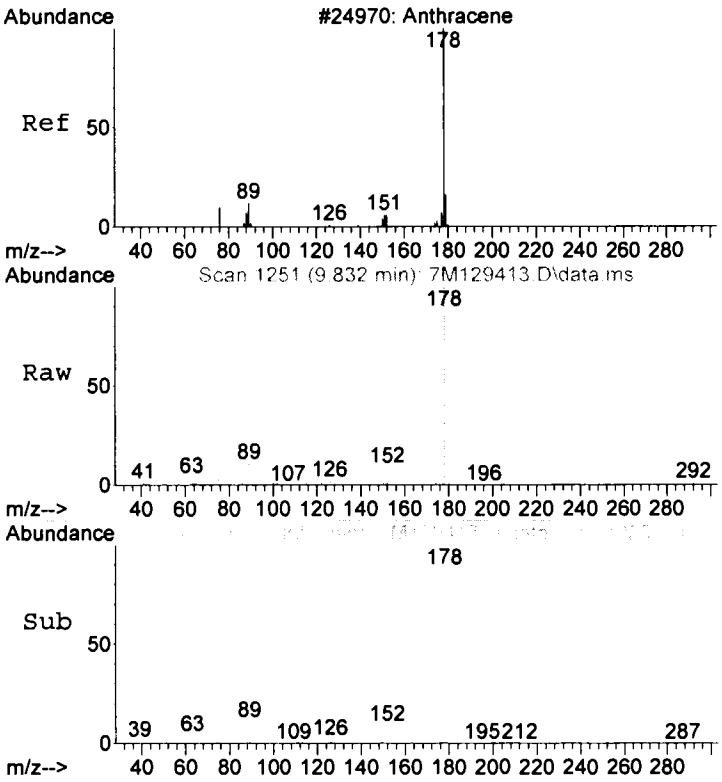


#86
Phenanthrene
Concen: 85.99 ng
RT: 9.779 min Scan# 1242
Delta R.T. 0.006 min
Lab File: 7M129413.D
Acq: 22 Jun 2023 11:56

Tgt Ion:178 Resp: 813370

Ion	Ratio	Lower	Upper
178	100		
179	15.6	0.0	55.5
176	18.9	0.0	59.3

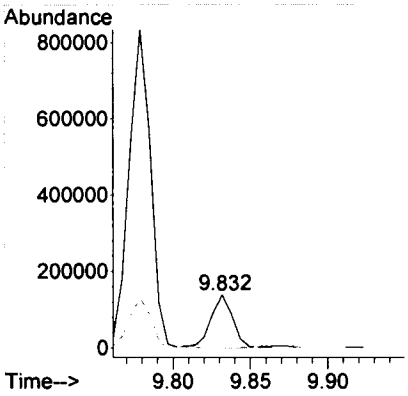


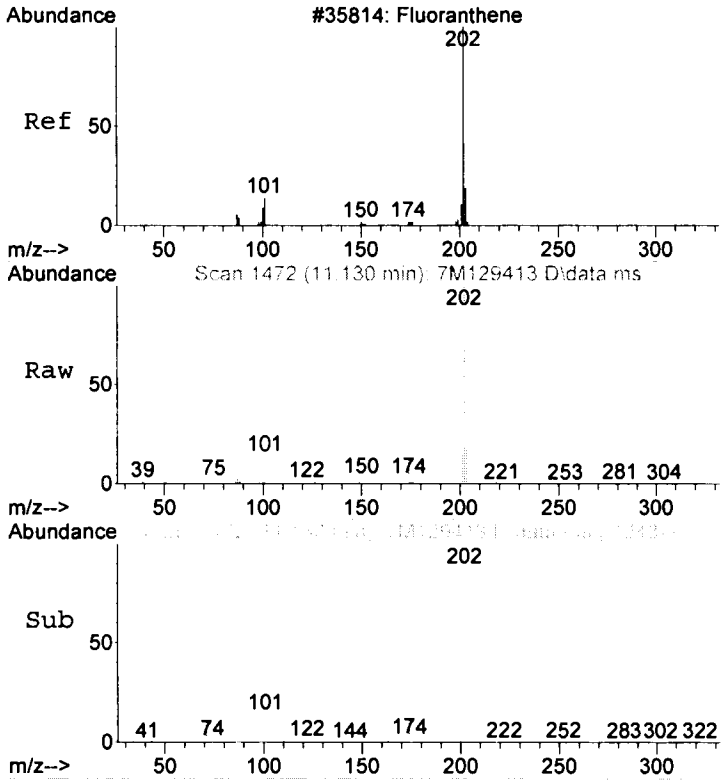


#87
Anthracene
Concen: 14.60 ng
RT: 9.832 min Scan# 1251
Delta R.T. 0.000 min
Lab File: 7M129413.D
Acq: 22 Jun 2023 11:56

Tgt Ion:178 Resp: 140665

Ion	Ratio	Lower	Upper
178	100		
179	14.0	0.0	55.2
176	18.5	0.0	58.1

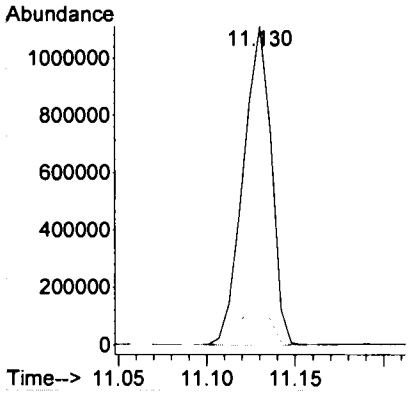


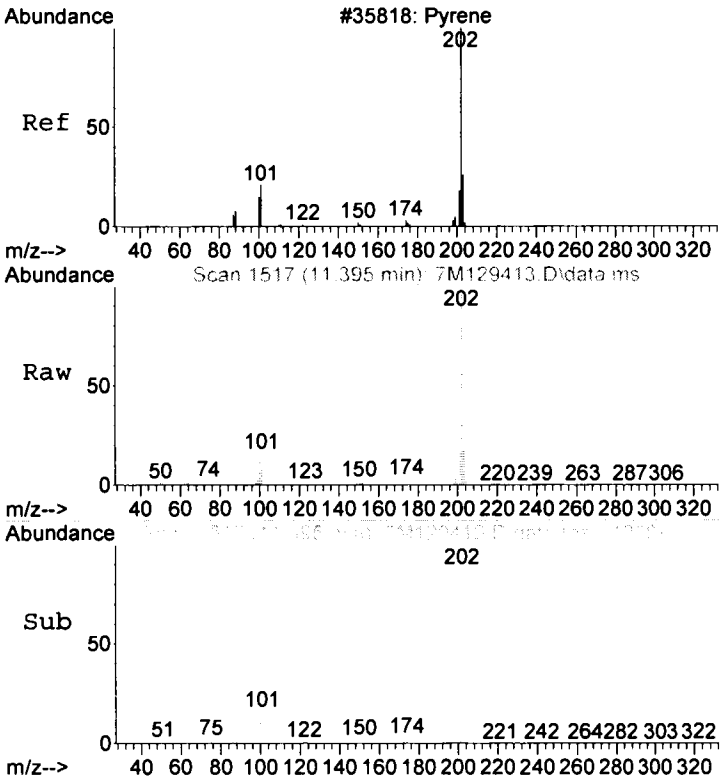


#90
Fluoranthene
Concen: 117.35 ng
RT: 11.130 min Scan# 1472
Delta R.T. 0.018 min
Lab File: 7M129413.D
Acq: 22 Jun 2023 11:56

Tgt Ion:202 Resp: 1220434

Ion	Ratio	Lower	Upper
202	100		
101	13.7	0.0	57.6

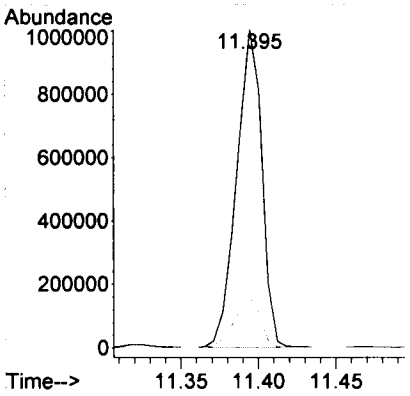


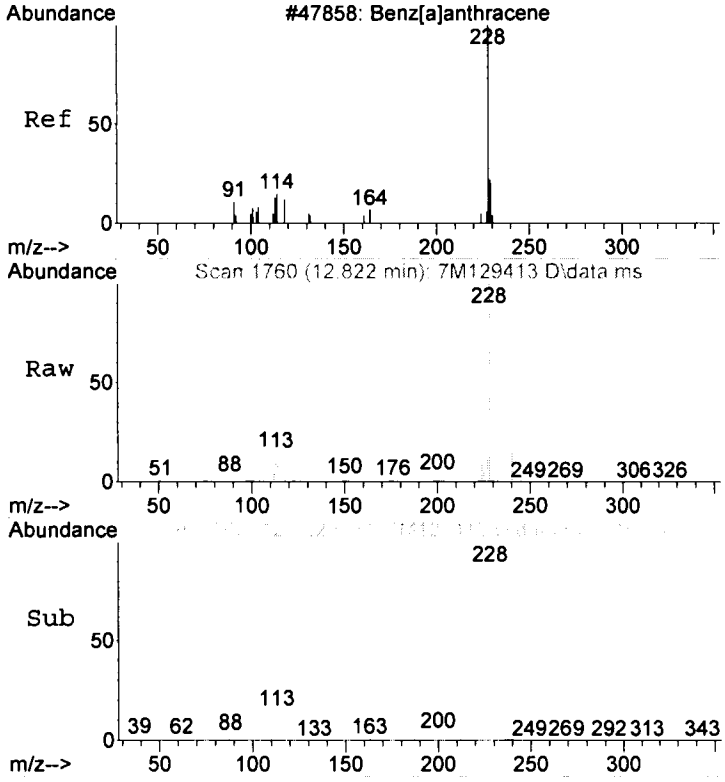


#92
Pyrene
Concen: 120.43 ng
RT: 11.395 min Scan# 1517
Delta R.T. 0.018 min
Lab File: 7M129413.D
Acq: 22 Jun 2023 11:56

Tgt Ion:202 Resp: 1140741

Ion	Ratio	Lower	Upper
202	100		
101	15.8	0.0	62.2
100	12.6	0.0	57.8

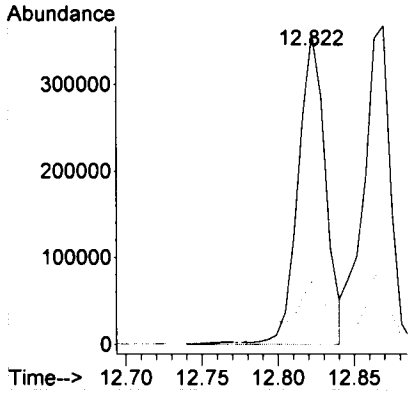


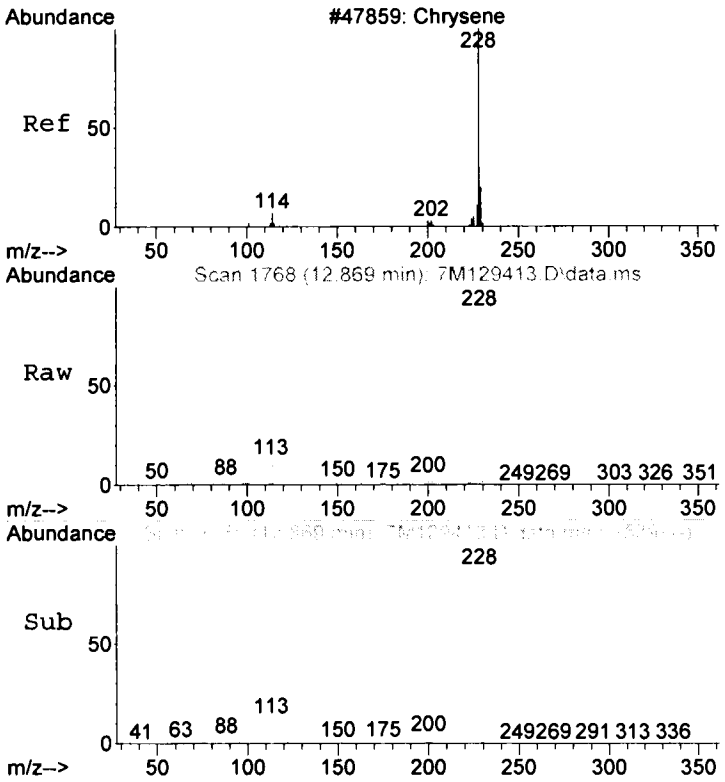


#100
Benzo[a]anthracene
Concen: 53.46 ng m
RT: 12.822 min Scan# 1760
Delta R.T. 0.012 min
Lab File: 7M129413.D
Acq: 22 Jun 2023 11:56

Tgt Ion:228 Resp: 447224

Ion	Ratio	Lower	Upper
228	100		
229	20.3	0.0	59.5
226	37.6	0.0	66.0

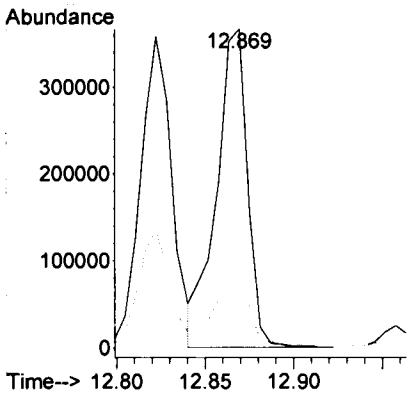


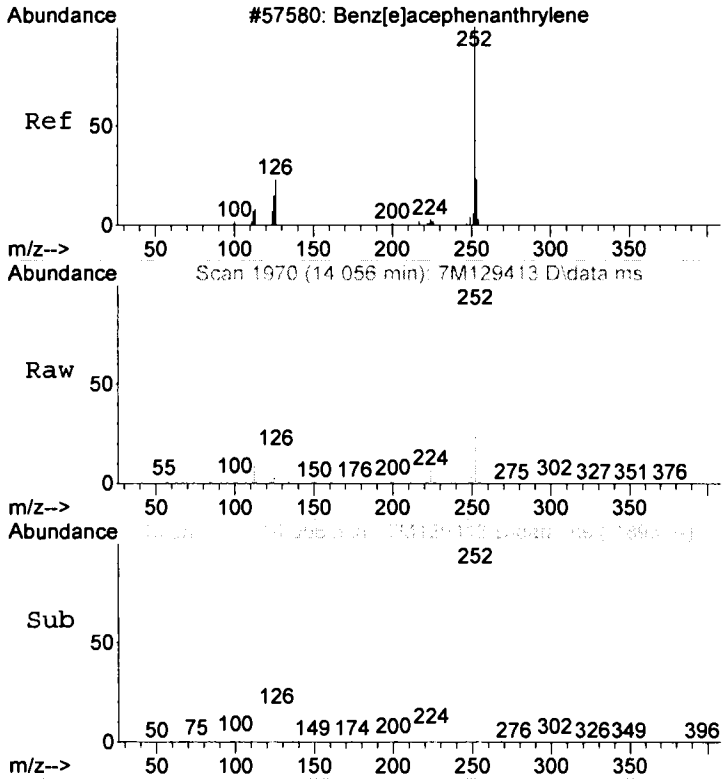


#101
Chrysene
Concen: 61.11 ng
RT: 12.869 min Scan# 1768
Delta R.T. 0.018 min
Lab File: 7M129413.D
Acq: 22 Jun 2023 11:56

Tgt Ion:228 Resp: 447926

Ion	Ratio	Lower	Upper
228	100		
226	29.0	9.5	49.5
229	21.6	0.0	60.2

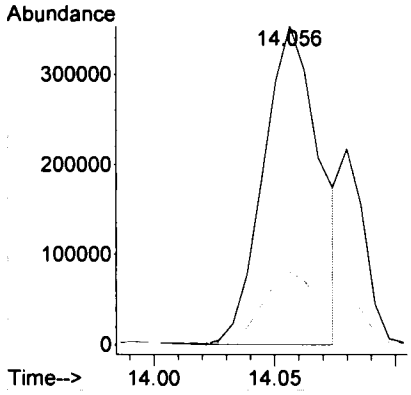


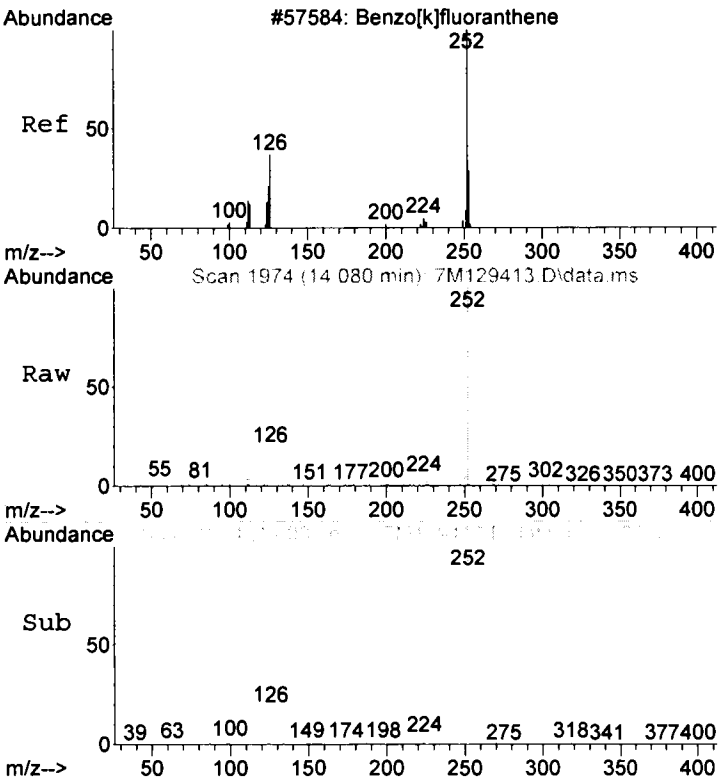


#105
Benzo[b]fluoranthene
Concen: 69.74 ng m
RT: 14.056 min Scan# 1970
Delta R.T. 0.000 min
Lab File: 7M129413.D
Acq: 22 Jun 2023 11:56

Tgt Ion:252 Resp: 571385

Ion	Ratio	Lower	Upper
252	100		
253	22.7	0.0	62.3
125	14.7	0.0	58.4

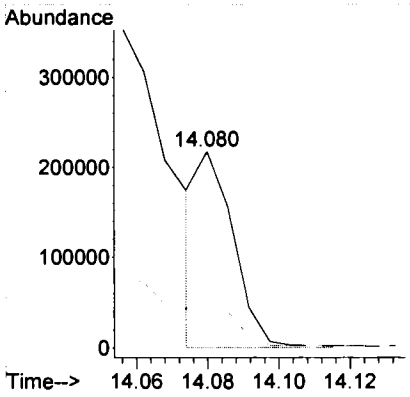


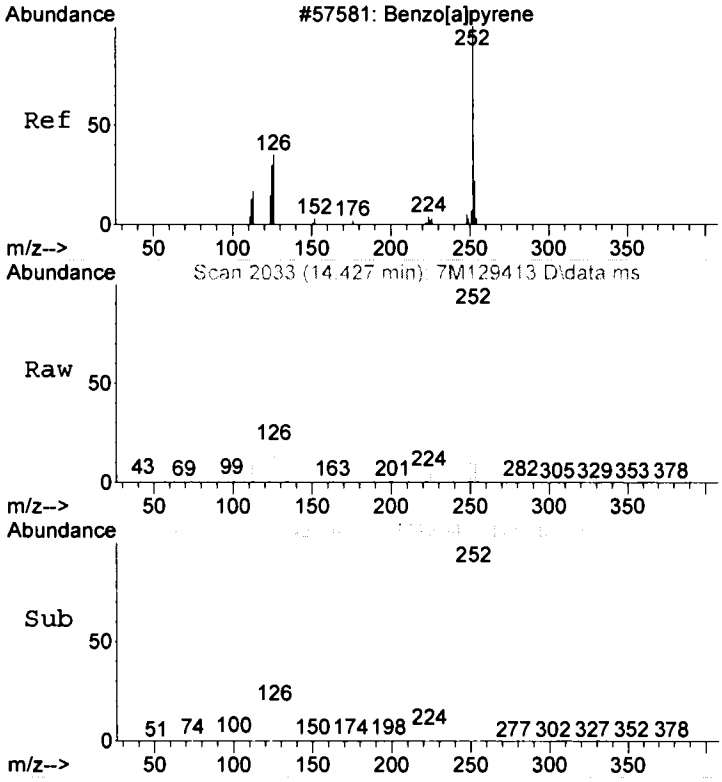


#106
Benzo[k]fluoranthene
Concen: 20.19 ng m
RT: 14.080 min Scan# 1974
Delta R.T. -0.006 min
Lab File: 7M129413.D
Acq: 22 Jun 2023 11:56

Tgt Ion:252 Resp: 152209

Ion	Ratio	Lower	Upper
252	100		
253	24.4	0.0	122.2
125	13.7	0.0	118.9

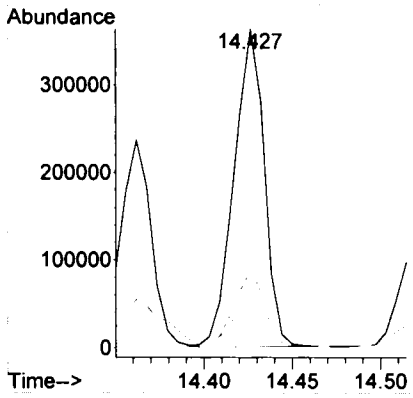


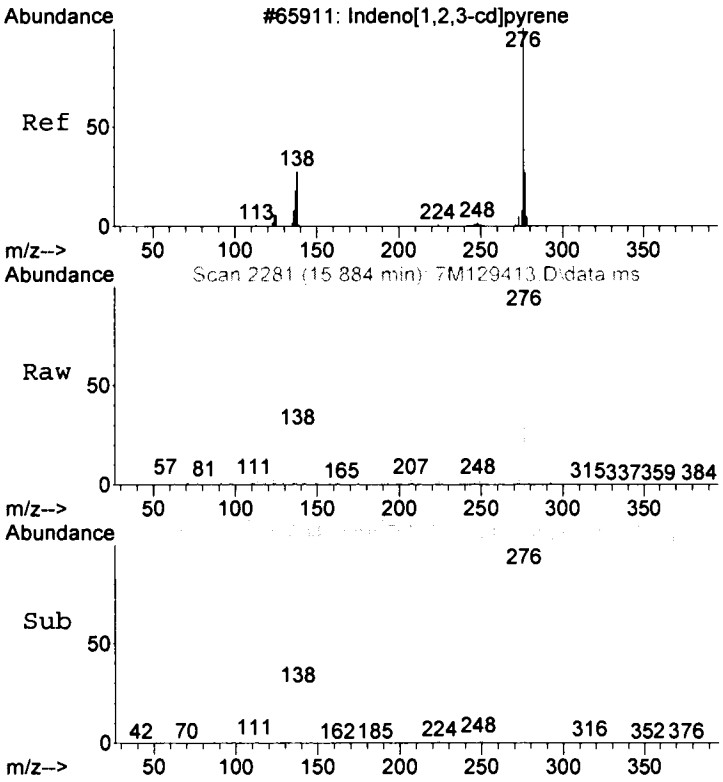


#107
Benzo[a]pyrene
Concen: 61.26 ng
RT: 14.427 min Scan# 2033
Delta R.T. 0.000 min
Lab File: 7M129413.D
Acq: 22 Jun 2023 11:56

Tgt Ion:252 Resp: 432550

Ion	Ratio	Lower	Upper
252	100		
253	23.8	0.0	62.4
125	14.1	0.0	60.9

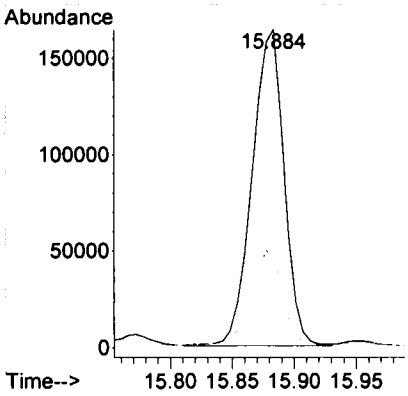


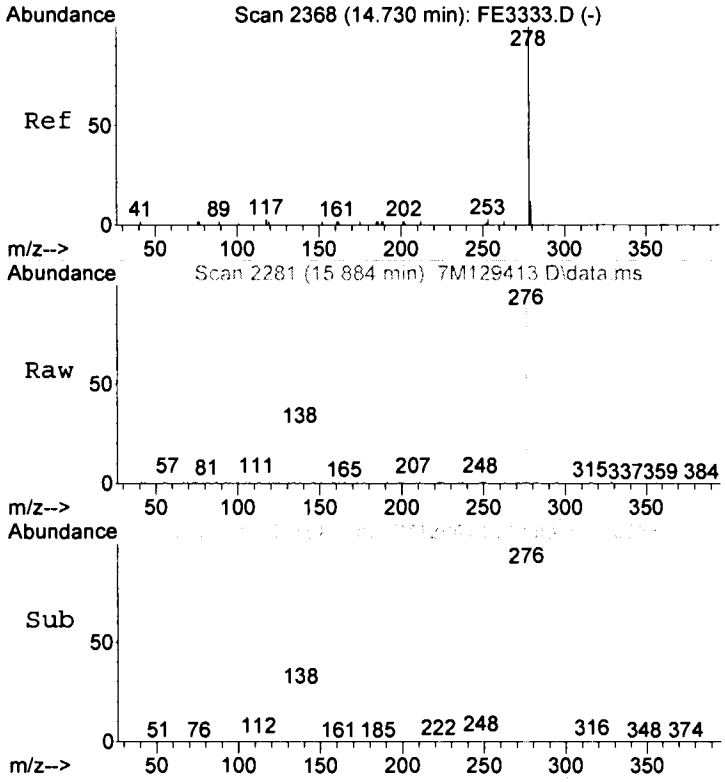


#108
Indeno[1,2,3-cd]pyrene
Concen: 35.84 ng
RT: 15.884 min Scan# 2281
Delta R.T. 0.012 min
Lab File: 7M129413.D
Acq: 22 Jun 2023 11:56

Tgt Ion:276 Resp: 293625

Ion	Ratio	Lower	Upper
276	100		
138	27.3	0.0	78.9

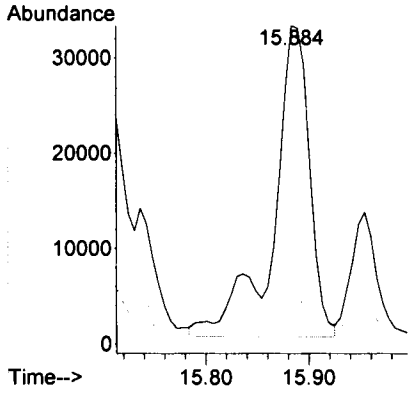


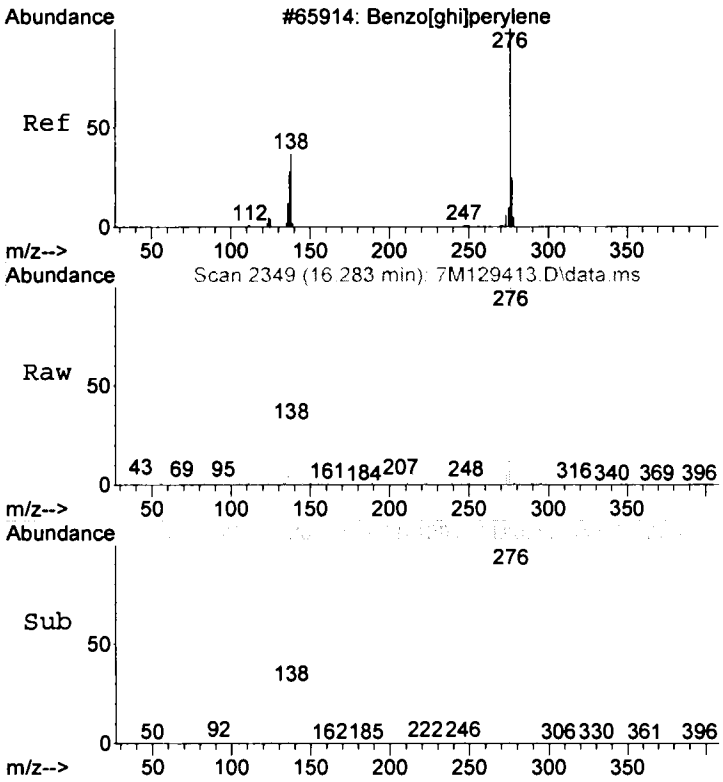


#109
Dibenzo[a,h]anthracene
Concen: 11.70 ng
RT: 15.884 min Scan# 2281
Delta R.T. -0.018 min
Lab File: 7M129413.D
Acq: 22 Jun 2023 11:56

Tgt Ion:278 Resp: 79614

Ion	Ratio	Lower	Upper
278	100		
139	0.0	0.0	72.0
279	26.2	0.0	63.9

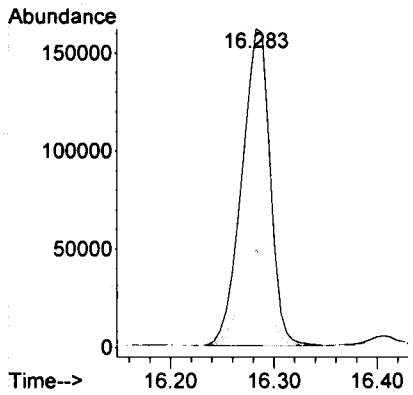




#110
Benzo[g,h,i]perylene
Concen: 45.41 ng
RT: 16.283 min Scan# 2349
Delta R.T. 0.006 min
Lab File: 7M129413.D
Acq: 22 Jun 2023 11:56

Tgt Ion:276 Resp: 306694

Ion	Ratio	Lower	Upper
276	100		
138	29.6	0.0	60.0
277	24.4	6.0	34.0



Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38537-005
Client Id: SB-6 10-11
Data File: 9M122406.D
Analysis Date: 06/21/23 18:55
Date Rec/Extracted: 06/13/23-06/21/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	0.040	U	218-01-9	Chrysene	0.040	U
83-32-9	Acenaphthene	0.040	U	53-70-3	Dibenzo[a,h]anthracene	0.040	U
208-96-8	Acenaphthylene	0.040	U	206-44-0	Fluoranthene	0.040	U
120-12-7	Anthracene	0.040	U	86-73-7	Fluorene	0.040	U
56-55-3	Benzo[a]anthracene	0.040	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.040	U
50-32-8	Benzo[a]pyrene	0.040	U	91-20-3	Naphthalene	0.010	U
205-99-2	Benzo[b]fluoranthene	0.040	U	85-01-8	Phenanthrene	0.040	U
191-24-2	Benzo[g,h,i]perylene	0.040	U	129-00-0	Pyrene	0.040	U
207-08-9	Benzo[k]fluoranthene	0.040	U				

Worksheet #: 696126

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

SampleID : AD38537-005 Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122406.D Sam Mult : 1 Vial# : 9 Qt On : 06/22/23 11:34
Acq On : 06/21/23 18:55 Misc : S,BNA Qt Upd On: 06/21/23 15:13

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-2123\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.560	96	36074	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.813	152	57973	40.00	ng	0.00
31) Naphthalene-d8	6.819	136	207335	40.00	ng	0.00
50) Acenaphthene-d10	8.248	164	96519	40.00	ng	0.00
77) Phenanthrene-d10	9.707	188	186100	40.00	ng	0.00
91) Chrysene-d12	12.754	240	182769	40.00	ng	0.00
103) Perylene-d12	14.365	264	190793	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.619	112	105461	50.09	ng	0.01
Spiked Amount 100.000			Recovery = 50.09%			
16) Phenol-d5	5.490	99	133803	53.10	ng	0.00
Spiked Amount 100.000			Recovery = 53.10%			
32) Nitrobenzene-d5	6.260	128	28600	32.76	ng	0.00
Spiked Amount 50.000			Recovery = 65.52%			
55) 2-Fluorobiphenyl	7.660	172	120514	34.83	ng	0.00
Spiked Amount 50.000			Recovery = 69.66%			
80) 2,4,6-Tribromophenol	8.983	330	34303	73.78	ng	0.00
Spiked Amount 100.000			Recovery = 73.78%			
94) Terphenyl-d14	11.513	244	138751	38.62	ng	0.00
Spiked Amount 50.000			Recovery = 77.24%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

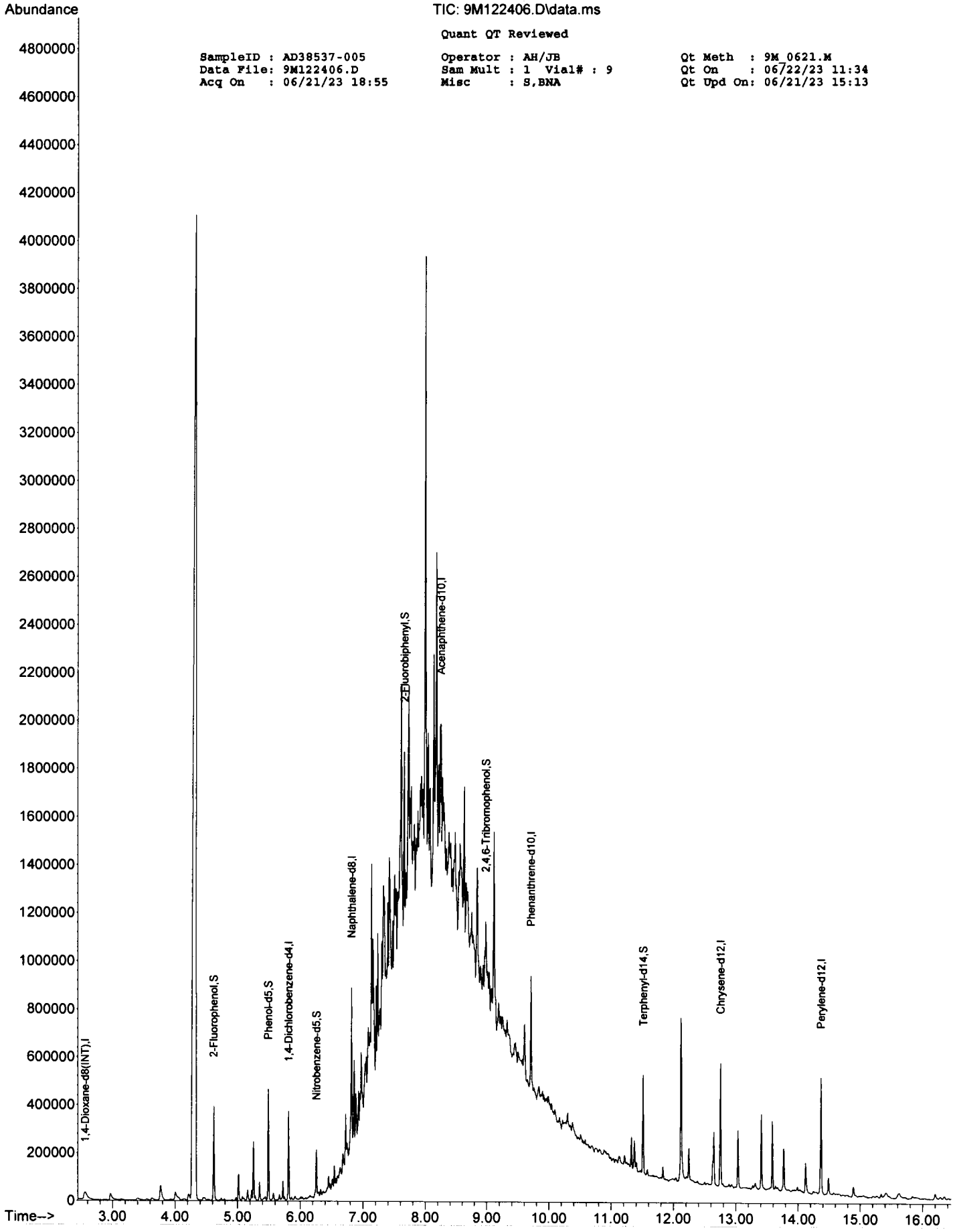
TIC: 9M122406.D\data.ms

Quant QT Reviewed

SampleID : AD38537-005
Data File: 9M122406.D
Acq On : 06/21/23 18:55

Operator : AH/JB
Sam Mult : 1 Vial# : 9
Misc : S,BNA

Qt Meth : 9M_0621.M
Qt On : 06/22/23 11:34
Qt Upd On: 06/21/23 15:13



9M_0621.M Fri Jun 23 17:10:00 2023 SYSTEM1

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38537-006
Client Id: SB-7 0.5-1
Data File: 9M122407.D
Analysis Date: 06/21/23 19:18
Date Rec/Extracted: 06/13/23-06/21/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	0.040	U	**218-01-9**	**Chrysene**	**0.040**	**0.11**
83-32-9	Acenaphthene	0.040	U	53-70-3	Dibenzo[a,h]anthracene	0.040	U
208-96-8	Acenaphthylene	0.040	U	**206-44-0**	**Fluoranthene**	**0.040**	**0.069**
120-12-7	Anthracene	0.040	U	86-73-7	Fluorene	0.040	U
56-55-3	**Benzo[a]anthracene**	**0.040**	**0.086**	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.040**	**0.064**
50-32-8	**Benzo[a]pyrene**	**0.040**	**0.11**	91-20-3	Naphthalene	0.010	U
205-99-2	**Benzo[b]fluoranthene**	**0.040**	**0.13**	**85-01-8**	**Phenanthrene**	**0.040**	**0.061**
191-24-2	**Benzo[g,h,i]perylene**	**0.040**	**0.082**	**129-00-0**	**Pyrene**	**0.040**	**0.074**
207-08-9	Benzo[k]fluoranthene	0.040	U				

Worksheet #: 696126

Total Target Concentration 0.79

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

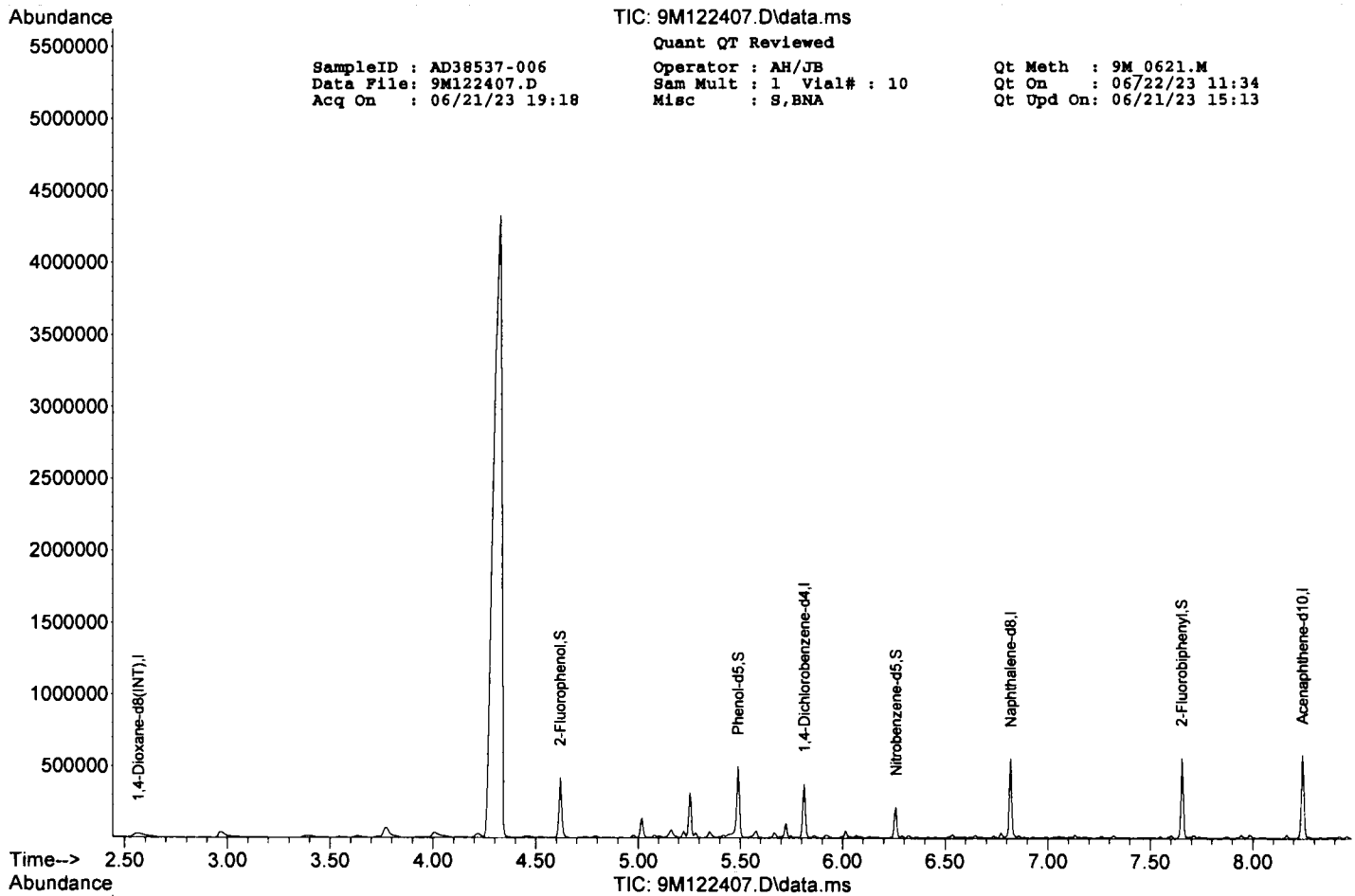
Quantitation Report (QT Reviewed)

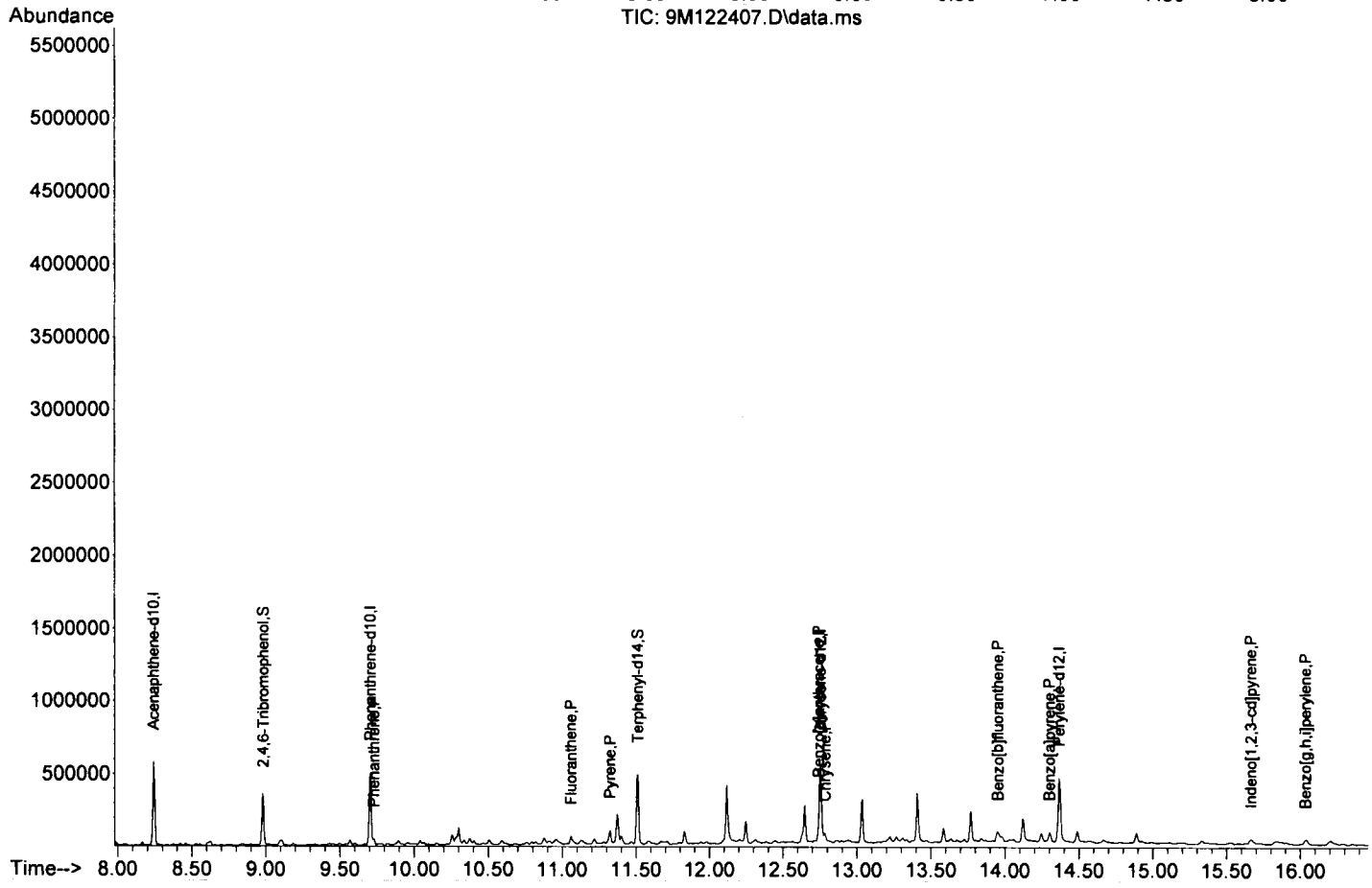
SampleID : AD38537-006 Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122407.D Sam Mult : 1 Vial# : 10 Qt On : 06/22/23 11:34
Acq On : 06/21/23 19:18 Misc : S,BNA Qt Upd On: 06/21/23 15:13

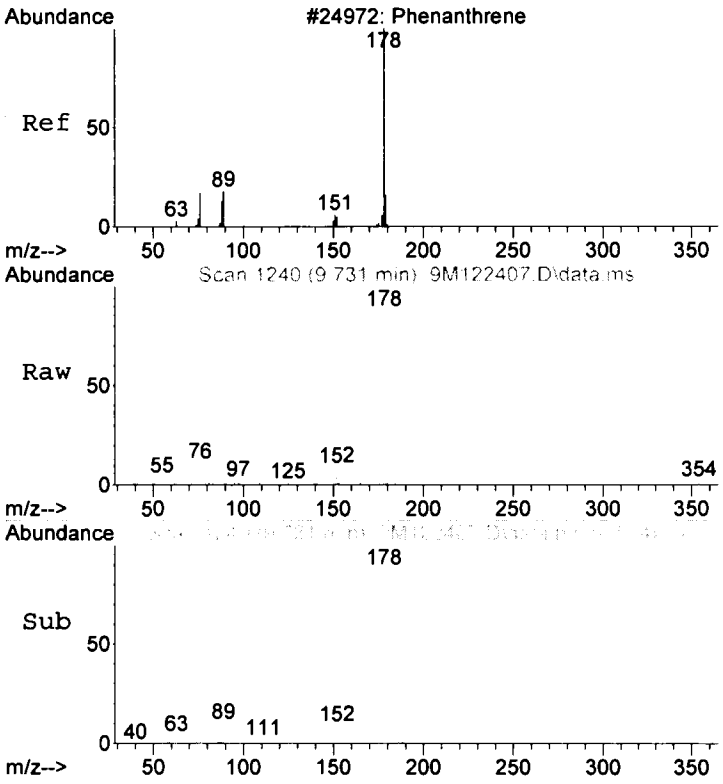
Data Path : G:\GcMsData\2023\GCMS_9\Data\06-2123\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.566	96	31305	40.00	ng	-0.01
21) 1,4-Dichlorobenzene-d4	5.813	152	56469	40.00	ng	0.00
31) Naphthalene-d8	6.819	136	209284	40.00	ng	0.00
50) Acenaphthene-d10	8.242	164	115056	40.00	ng	0.00
77) Phenanthrene-d10	9.707	188	203481	40.00	ng	0.00
91) Chrysene-d12	12.754	240	179433	40.00	ng	0.00
103) Perylene-d12	14.366	264	182101	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.619	112	110940	60.72	ng	0.01
Spiked Amount 100.000			Recovery = 60.72%			
16) Phenol-d5	5.490	99	141475	64.69	ng	0.00
Spiked Amount 100.000			Recovery = 64.69%			
32) Nitrobenzene-d5	6.260	128	29231	33.17	ng	0.00
Spiked Amount 50.000			Recovery = 66.34%			
55) 2-Fluorobiphenyl	7.654	172	150648	36.53	ng	0.00
Spiked Amount 50.000			Recovery = 73.06%			
80) 2,4,6-Tribromophenol	8.984	330	42182	82.97	ng	0.00
Spiked Amount 100.000			Recovery = 82.97%			
94) Terphenyl-d14	11.513	244	156485	44.36	ng	0.00
Spiked Amount 50.000			Recovery = 88.72%			
Target Compounds						Qvalue
86) Phenanthrene	9.731	178	16610	3.0516	ng	98
90) Fluoranthene	11.060	202	20978	3.4120	ng	95
92) Pyrene	11.325	202	22086	3.6755	ng	91
100) Benzo[a]anthracene	12.742	228	24586	4.2850	ng	96
101) Chrysene	12.783	228	29374m	5.5137	ng	
105) Benzo[b]fluoranthene	13.954	252	38065m	6.6598	ng	
107) Benzo[a]pyrene	14.301	252	26326m	5.3912	ng	
108) Indeno[1,2,3-cd]pyrene	15.665	276	19928m	3.2046	ng	
110) Benzo[g,h,i]perylene	16.036	276	20886	4.0793	ng	79

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M122407.D\data.ms
Quant QT Reviewed
SampleID : AD38537-006
Data File: 9M122407.D
Acq On : 06/21/23 19:18
Operator : AH/JB
Sam Mult : 1 Vial# : 10
Misc : S,BNA
Qt Meth : 9M_0621.M
Qt On : 06/22/23 11:34
Qt Upd On: 06/21/23 15:13
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Time-->

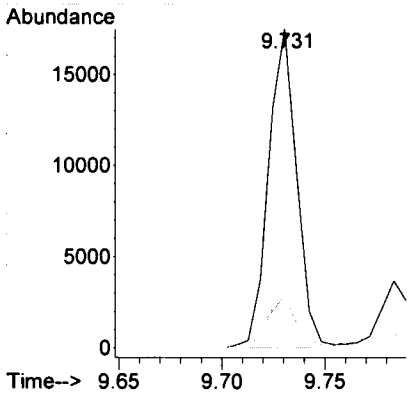

Abundance
TIC: 9M122407.D\data.ms
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Benzo[b]fluoranthene,P
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,P
Benzo[g,h,i]perylene,P
Time-->

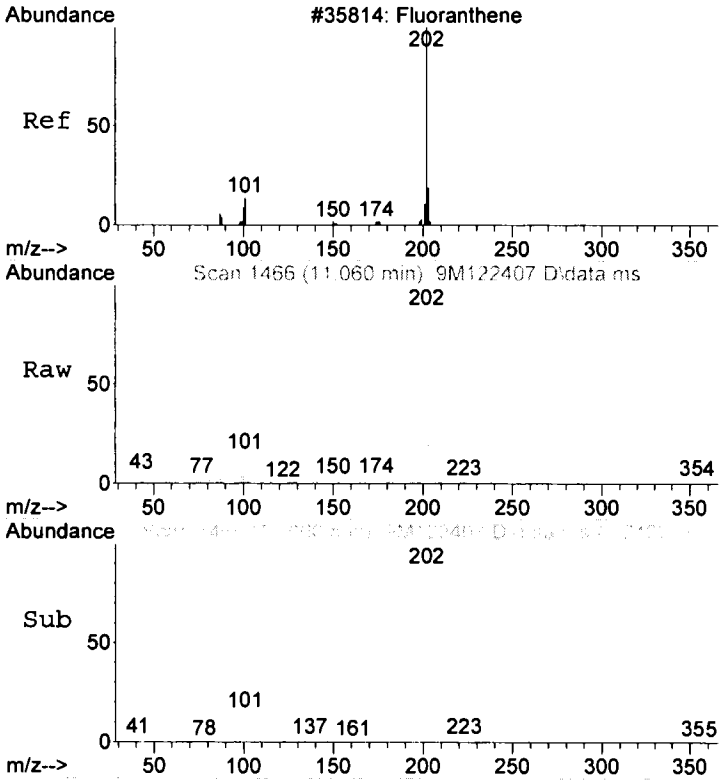


#86
Phenanthrene
Concen: 3.05 ng
RT: 9.731 min Scan# 1240
Delta R.T. -0.000 min
Lab File: 9M122407.D
Acq: 21 Jun 2023 19:18

Tgt Ion:178 Resp: 16610

Ion	Ratio	Lower	Upper
178	100		
179	16.4	0.0	55.5
176	20.4	0.0	59.3

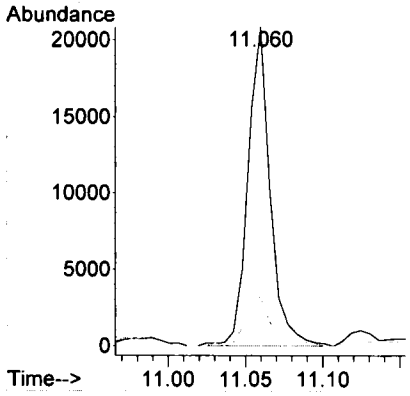


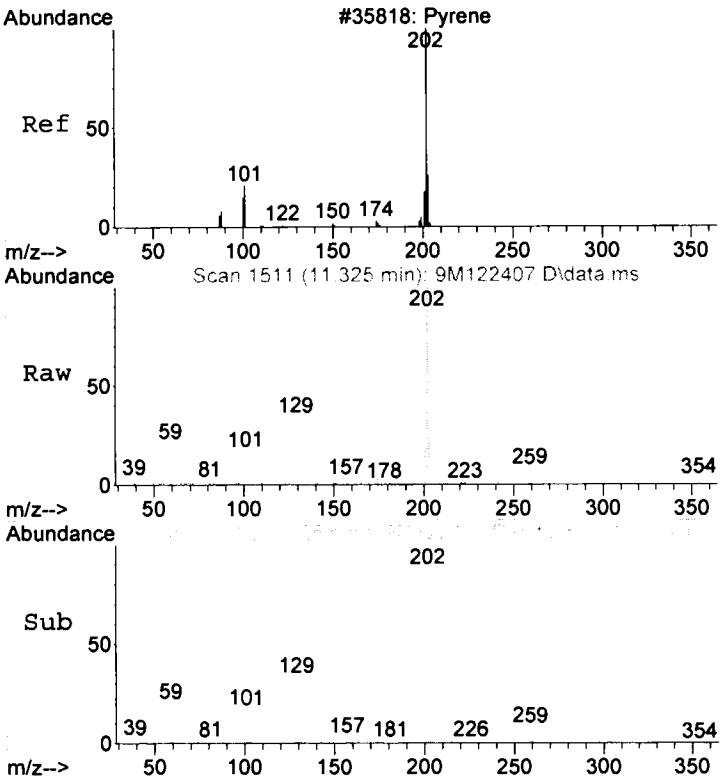


#90
Fluoranthene
Concen: 3.41 ng
RT: 11.060 min Scan# 1466
Delta R.T. -0.000 min
Lab File: 9M122407.D
Acq: 21 Jun 2023 19:18

Tgt Ion:202 Resp: 20978

Ion	Ratio	Lower	Upper
202	100		
101	15.4	0.0	57.6

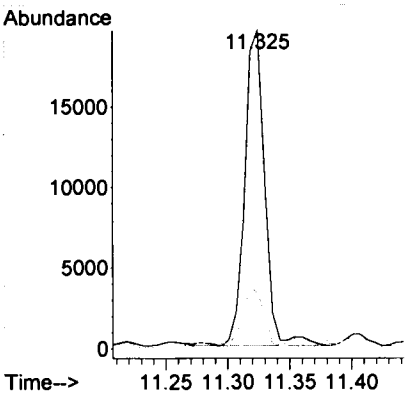


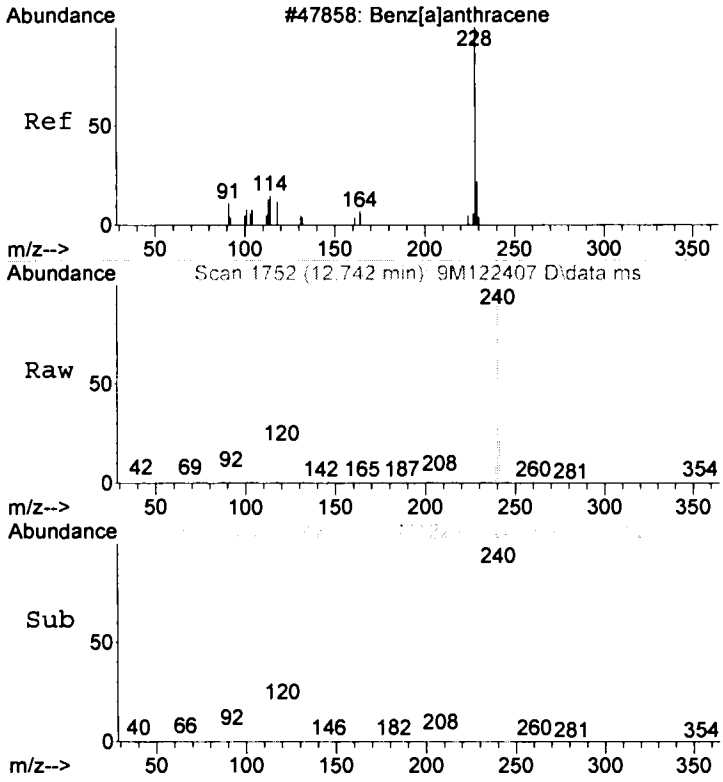


#92
Pyrene
Concen: 3.68 ng
RT: 11.325 min Scan# 1511
Delta R.T. -0.000 min
Lab File: 9M122407.D
Acq: 21 Jun 2023 19:18

Tgt Ion:202 Resp: 22086

Ion	Ratio	Lower	Upper
202	100		
101	16.0	0.0	62.2
100	16.0	0.0	57.8

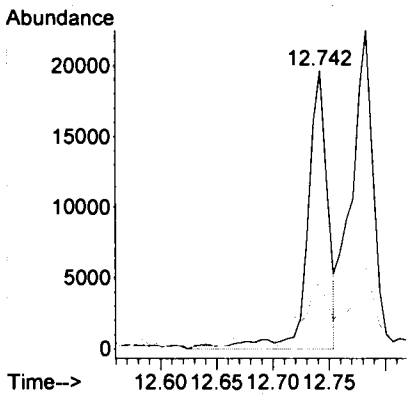


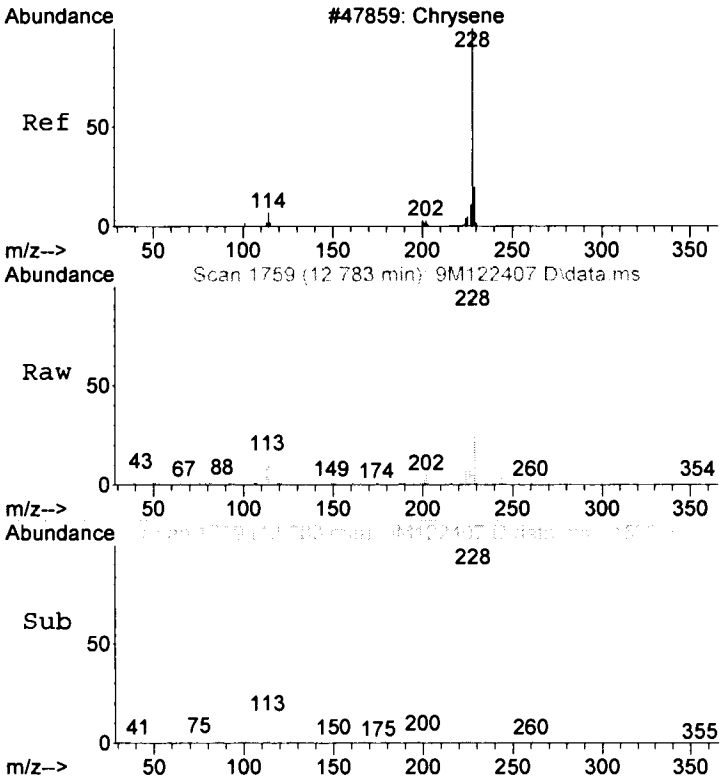


#100
Benzo[a]anthracene
Concen: 4.28 ng
RT: 12.742 min Scan# 1752
Delta R.T. -0.000 min
Lab File: 9M122407.D
Acq: 21 Jun 2023 19:18

Tgt Ion:228 Resp: 24586

Ion	Ratio	Lower	Upper
228	100		
229	22.1	0.0	59.5
226	27.4	0.0	66.0

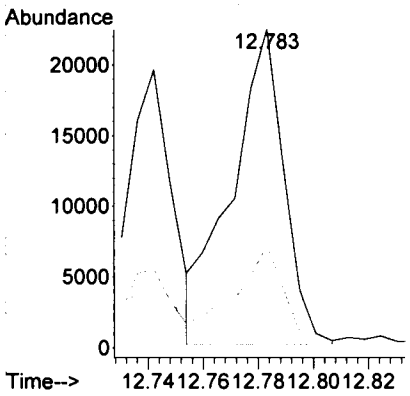


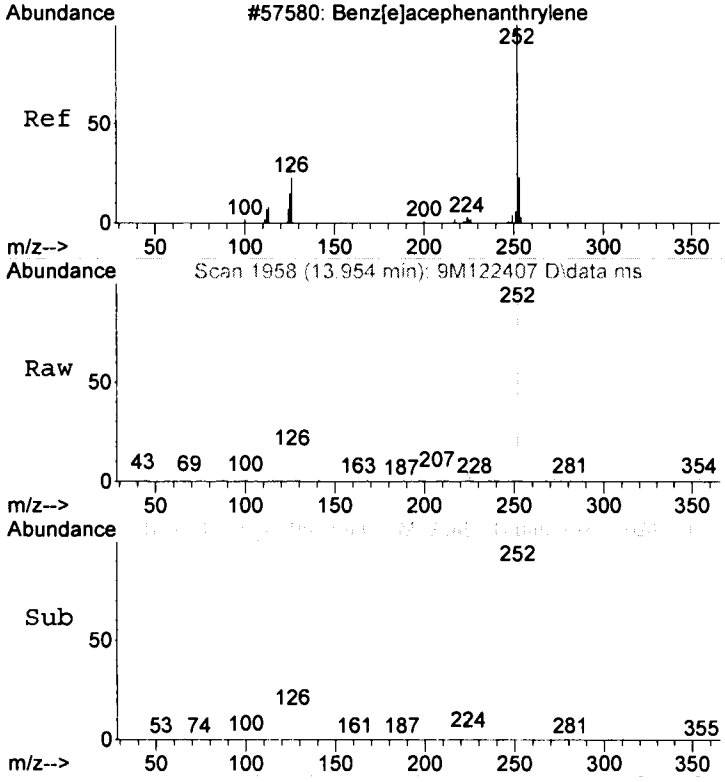


#101
Chrysene
Concen: 5.51 ng m
RT: 12.783 min Scan# 1759
Delta R.T. -0.000 min
Lab File: 9M122407.D
Acq: 21 Jun 2023 19:18

Tgt Ion:228 Resp: 29374

Ion	Ratio	Lower	Upper
228	100		
226	32.1	9.5	49.5
229	25.3	0.0	60.2

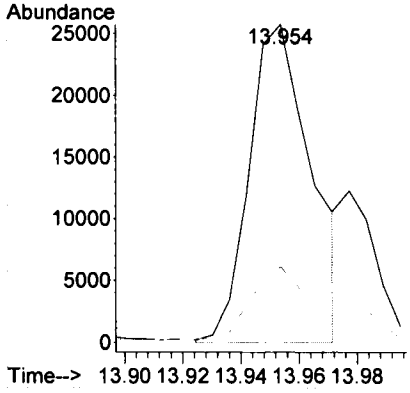


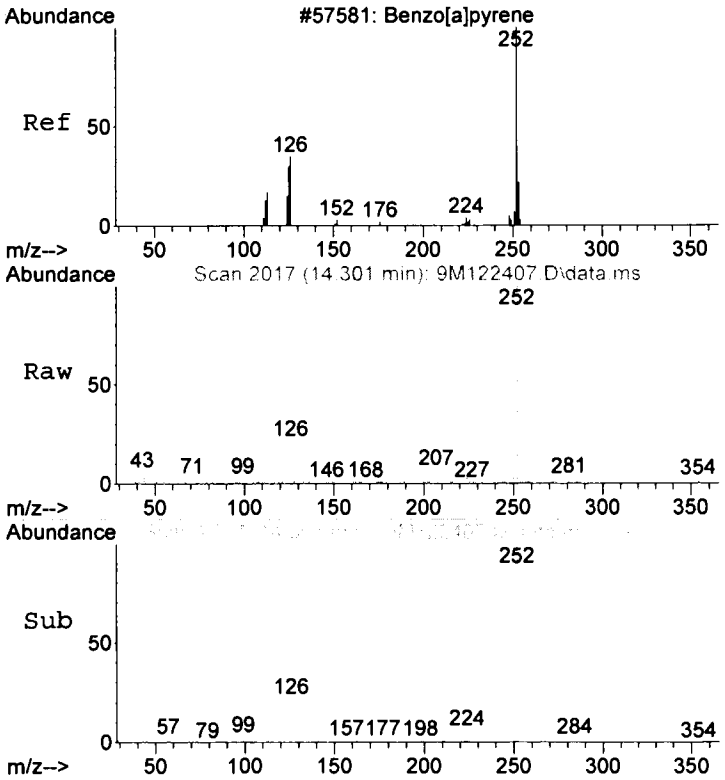


#105
Benzo[b]fluoranthene
Concen: 6.66 ng m
RT: 13.954 min Scan# 1958
Delta R.T. -0.000 min
Lab File: 9M122407.D
Acq: 21 Jun 2023 19:18

Tgt Ion:252 Resp: 38065

Ion	Ratio	Lower	Upper
252	100		
253	23.8	0.0	72.3
125	14.7	0.0	60.0

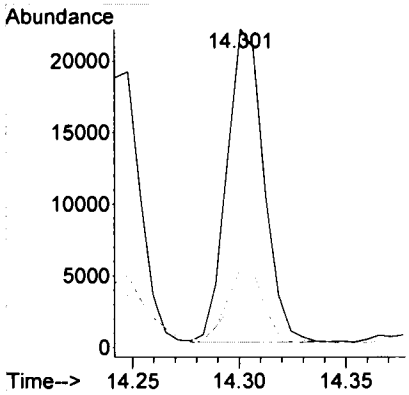


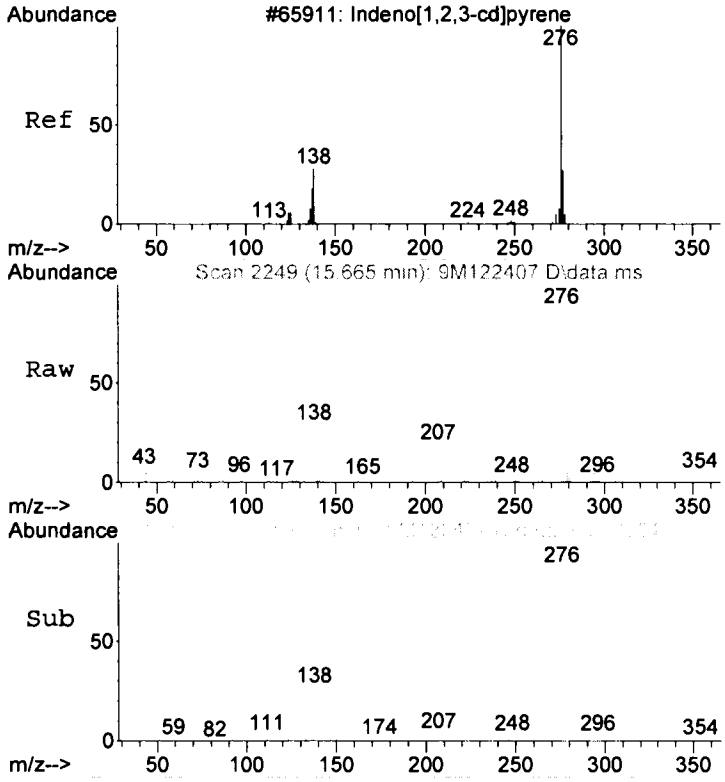


#107
Benzo[a]pyrene
Concen: 5.39 ng m
RT: 14.301 min Scan# 2017
Delta R.T. -0.006 min
Lab File: 9M122407.D
Acq: 21 Jun 2023 19:18

Tgt Ion:252 Resp: 26326

Ion	Ratio	Lower	Upper
252	100		
253	24.9	0.0	62.4
125	16.3	0.0	60.9

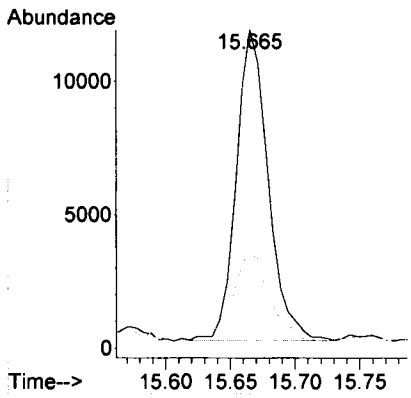


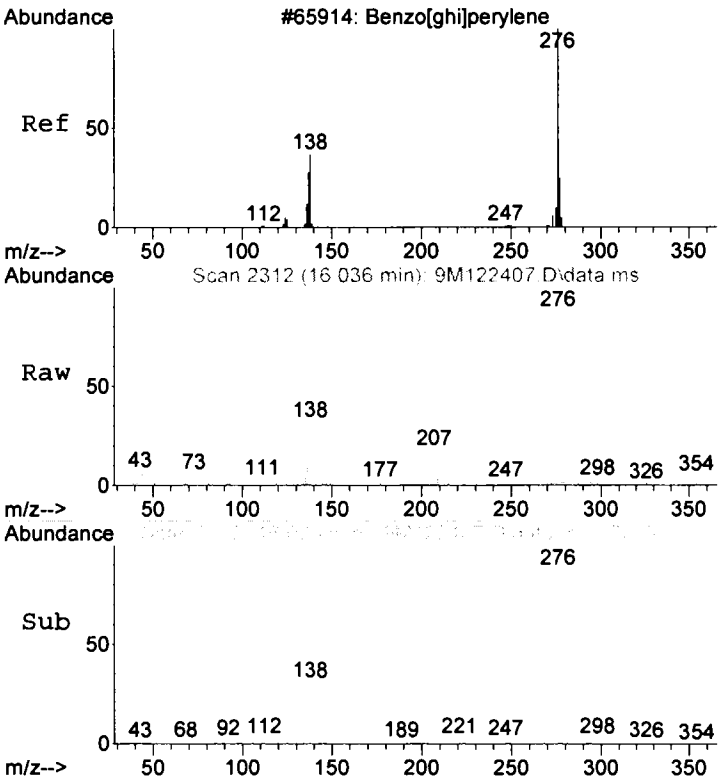


#108
Indeno[1,2,3-cd]pyrene
Concen: 3.20 ng m
RT: 15.665 min Scan# 2249
Delta R.T. -0.006 min
Lab File: 9M122407.D
Acq: 21 Jun 2023 19:18

Tgt Ion:276 Resp: 19928

Ion	Ratio	Lower	Upper
276	100		
138	29.2	0.0	78.9

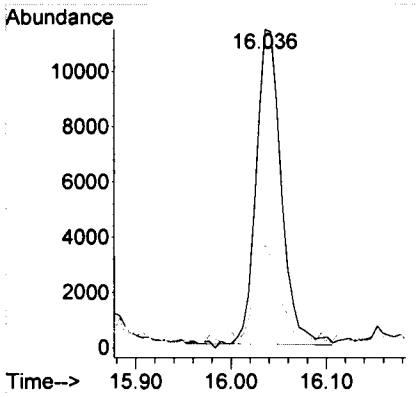




#110
Benzo[g,h,i]perylene
Concen: 4.08 ng
RT: 16.036 min Scan# 2312
Delta R.T. -0.012 min
Lab File: 9M122407.D
Acq: 21 Jun 2023 19:18

Tgt Ion:276 Resp: 20886

Ion	Ratio	Lower	Upper
276	100		
138	28.8	0.0	100.0
277	27.8	0.0	60.0



Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38537-007(3X)
Client Id: SB-8 0-2
Data File: 7M129416.D
Analysis Date: 06/22/23 13:06
Date Rec/Extracted: 06/13/23-06/21/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 3
Solids: 91

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	0.11	U	**218-01-9**	**Chrysene**	**0.11**	**0.72**
83-32-9	Acenaphthene	0.11	U	**53-70-3**	**Dibenzo[a,h]anthracene**	**0.11**	**0.14**
208-96-8	Acenaphthylene	0.11	U	**206-44-0**	**Fluoranthene**	**0.11**	**1.1**
120-12-7	**Anthracene**	**0.11**	**0.18**	86-73-7	Fluorene	0.11	U
56-55-3	**Benzo[a]anthracene**	**0.11**	**0.66**	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.11**	**0.41**
50-32-8	**Benzo[a]pyrene**	**0.11**	**0.77**	**91-20-3**	**Naphthalene**	**0.027**	**0.029**
205-99-2	**Benzo[b]fluoranthene**	**0.11**	**0.89**	**85-01-8**	**Phenanthrene**	**0.11**	**0.69**
191-24-2	**Benzo[g,h,i]perylene**	**0.11**	**0.45**	**129-00-0**	**Pyrene**	**0.11**	**1.1**
207-08-9	**Benzo[k]fluoranthene**	**0.11**	**0.32**				

Worksheet #: 696126 ***Total Target Concentration*** 7.5 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

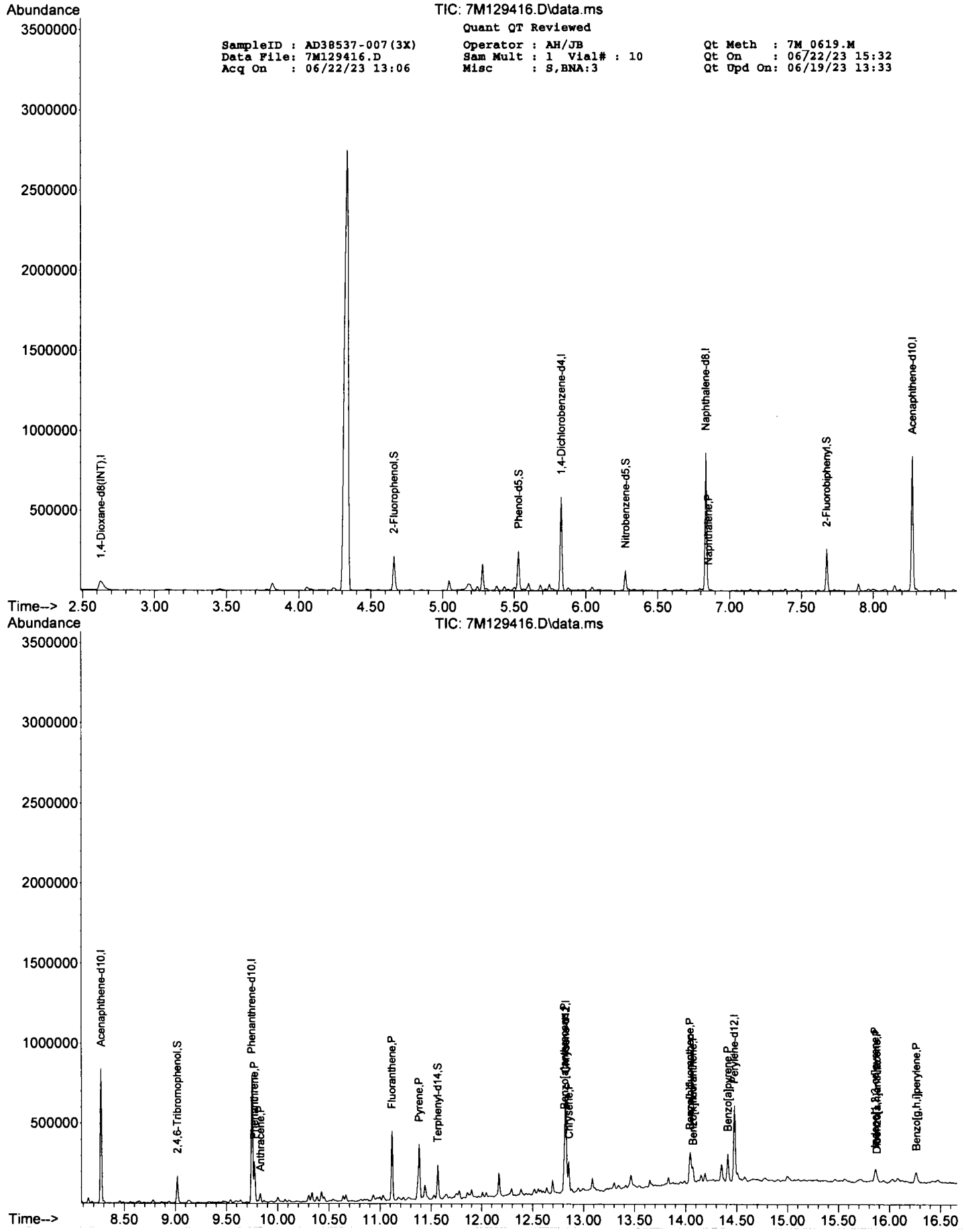
Quantitation Report (QT Reviewed)

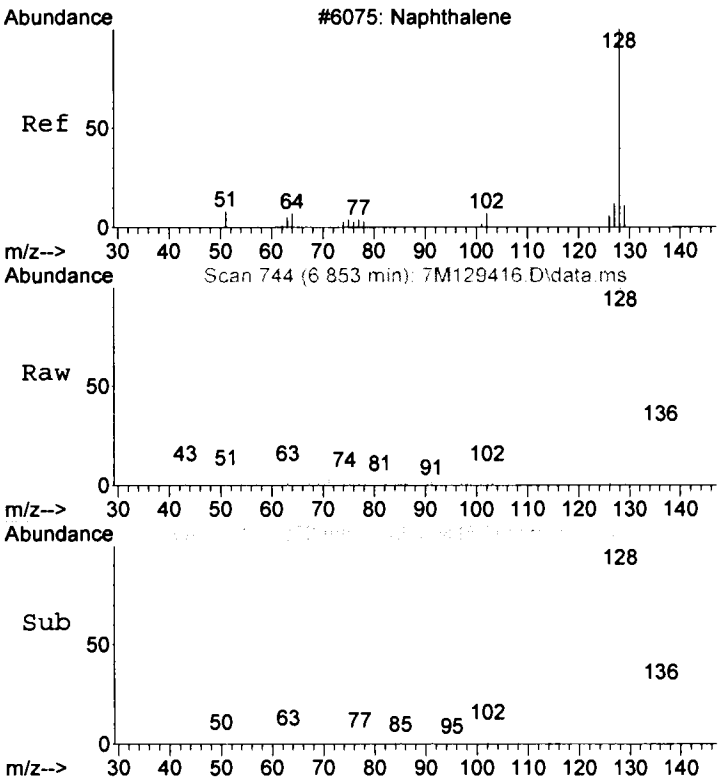
SampleID : AD38537-007(3X) Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129416.D Sam Mult : 1 Vial# : 10 Qt On : 06/22/23 15:32
Acq On : 06/22/23 13:06 Misc : S,BNA:3 Qt Upd On: 06/19/23 13:33

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-22-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.628	96	46125	40.00	ng	0.01
21) 1,4-Dichlorobenzene-d4	5.830	152	79940	40.00	ng	0.00
31) Naphthalene-d8	6.835	136	318768	40.00	ng	0.00
50) Acenaphthene-d10	8.275	164	180768	40.00	ng	0.00
77) Phenanthrene-d10	9.749	188	286763	40.00	ng	0.00
91) Chrysene-d12	12.828	240	201033	40.00	ng	0.00
103) Perylene-d12	14.479	264	189578	40.00	ng	-0.01
System Monitoring Compounds						
11) 2-Fluorophenol	4.661	112	60753	21.79	ng	0.02
Spiked Amount 100.000			Recovery = 21.79%			
16) Phenol-d5	5.531	99	77154	23.42	ng	0.01
Spiked Amount 100.000			Recovery = 23.42%			
32) Nitrobenzene-d5	6.277	128	15777	10.71	ng	0.00
Spiked Amount 50.000			Recovery = 21.42%			
55) 2-Fluorobiphenyl	7.675	172	73628	12.49	ng	0.00
Spiked Amount 50.000			Recovery = 24.98%			
80) 2,4,6-Tribromophenol	9.021	330	14132	22.01	ng	0.00
Spiked Amount 100.000			Recovery = 22.01%			
94) Terphenyl-d14	11.565	244	55660	12.75	ng	0.00
Spiked Amount 50.000			Recovery = 25.50%			
Target Compounds						Qvalue
41) Naphthalene	6.853	128	4488	0.5265	ng	97
86) Phenanthrene	9.773	178	96351	12.6363	ng	97
87) Anthracene	9.832	178	25244	3.2516	ng	98
90) Fluoranthene	11.118	202	168291	20.0756	ng	94
92) Pyrene	11.383	202	150357	20.0664	ng	92
100) Benzo[a]anthracene	12.816	228	79923m	12.0789	ng	
101) Chrysene	12.858	228	75572	13.0333	ng	98
105) Benzo[b]fluoranthene	14.044	252	98283m	16.1542	ng	
106) Benzo[k]fluoranthene	14.074	252	32334m	5.7748	ng	
107) Benzo[a]pyrene	14.415	252	73484	14.0156	ng	93
108) Indeno[1,2,3-cd]pyrene	15.860	276	44963	7.3912	ng	86
109) Dibenzo[a,h]anthracene	15.878	278	12712	2.5154	ng	87
110) Benzo[g,h,i]perylene	16.265	276	40885	8.1523	ng	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

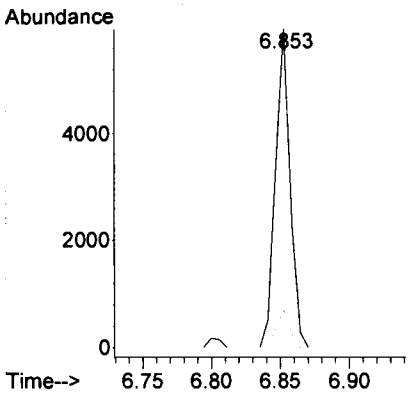

Abundance
TIC: 7M129416.D\data.ms
Quant QT Reviewed
SampleID : AD38537-007(3X)
Data File: 7M129416.D
Acq On : 06/22/23 13:06
Operator : AH/JB
Sam Mult : 1 Vial# : 10
Misc : S,BNA:3
Qt Meth : 7M_0619.M
Qt On : 06/22/23 15:32
Qt Upd On: 06/19/23 13:33
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
Naphthalene,P
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Time--> 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00
Abundance
TIC: 7M129416.D\data.ms
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

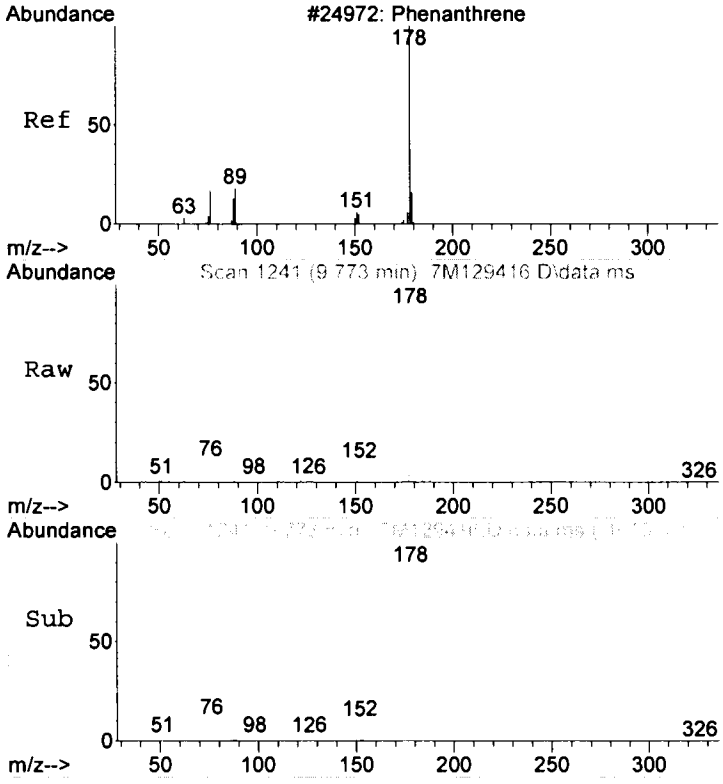


#41
Naphthalene
Concen: 0.53 ng
RT: 6.853 min Scan# 744
Delta R.T. -0.000 min
Lab File: 7M129416.D
Acq: 22 Jun 2023 13:06

Tgt Ion:128 Resp: 4488

Ion	Ratio	Lower	Upper
128	100		
129	11.8	0.0	50.9
127	14.0	0.0	52.4

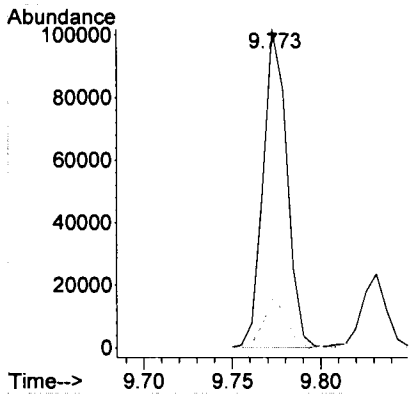


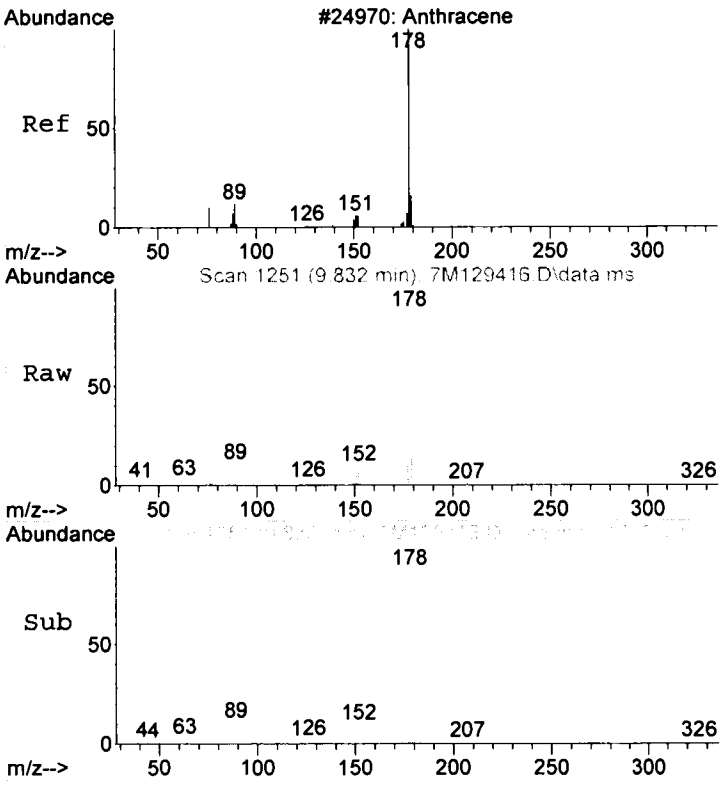


#86
Phenanthrene
Concen: 12.64 ng
RT: 9.773 min Scan# 1241
Delta R.T. -0.000 min
Lab File: 7M129416.D
Acq: 22 Jun 2023 13:06

Tgt Ion:178 Resp: 96351

Ion	Ratio	Lower	Upper
178	100		
179	15.0	0.0	55.5
176	17.2	0.0	59.3

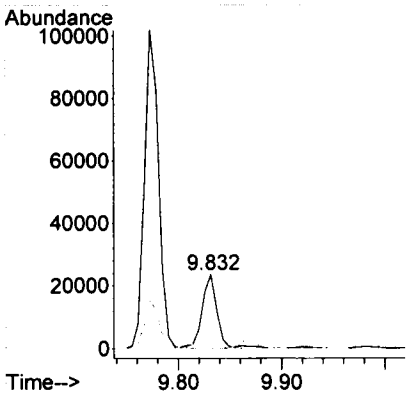


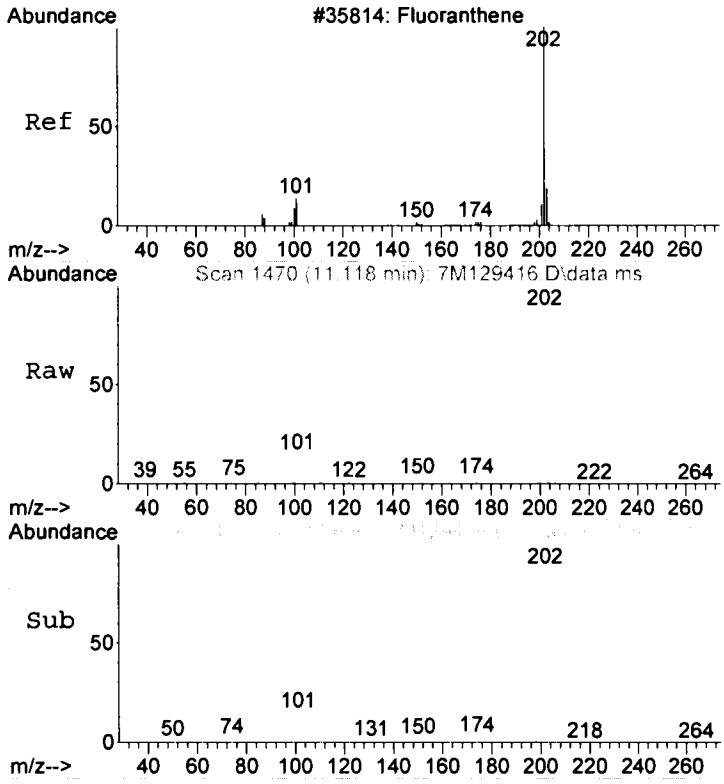


#87
Anthracene
Concen: 3.25 ng
RT: 9.832 min Scan# 1251
Delta R.T. -0.000 min
Lab File: 7M129416.D
Acq: 22 Jun 2023 13:06

Tgt Ion:178 Resp: 25244

Ion	Ratio	Lower	Upper
178	100		
179	13.6	0.0	55.2
176	18.3	0.0	58.1

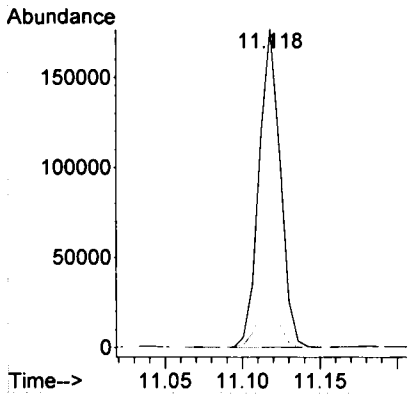


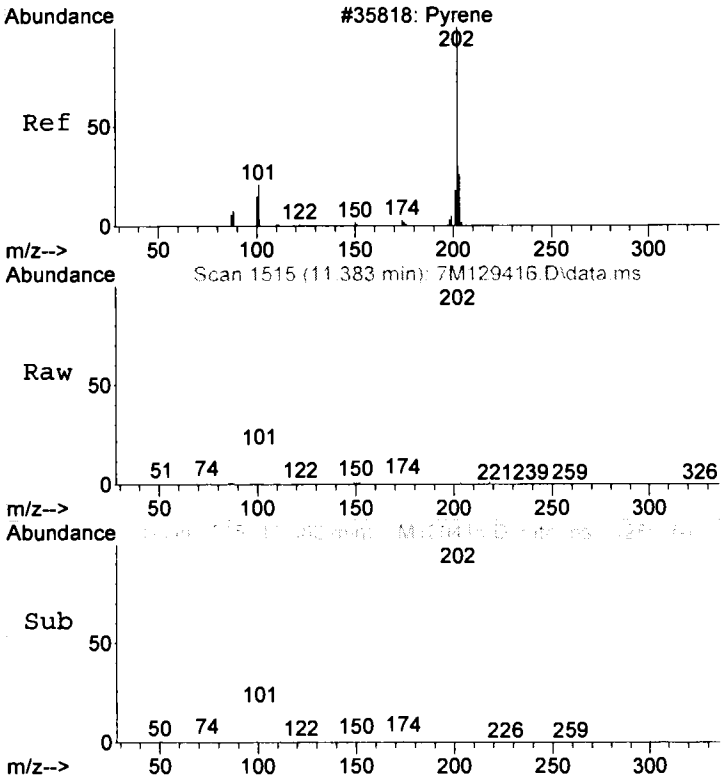


#90
Fluoranthene
Concen: 20.08 ng
RT: 11.118 min Scan# 1470
Delta R.T. 0.006 min
Lab File: 7M129416.D
Acq: 22 Jun 2023 13:06

Tgt Ion:202 Resp: 168291

Ion	Ratio	Lower	Upper
202	100		
101	14.8	0.0	57.6

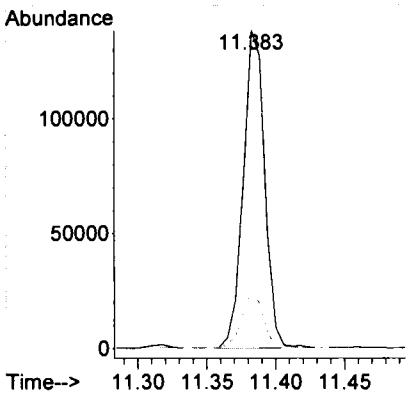


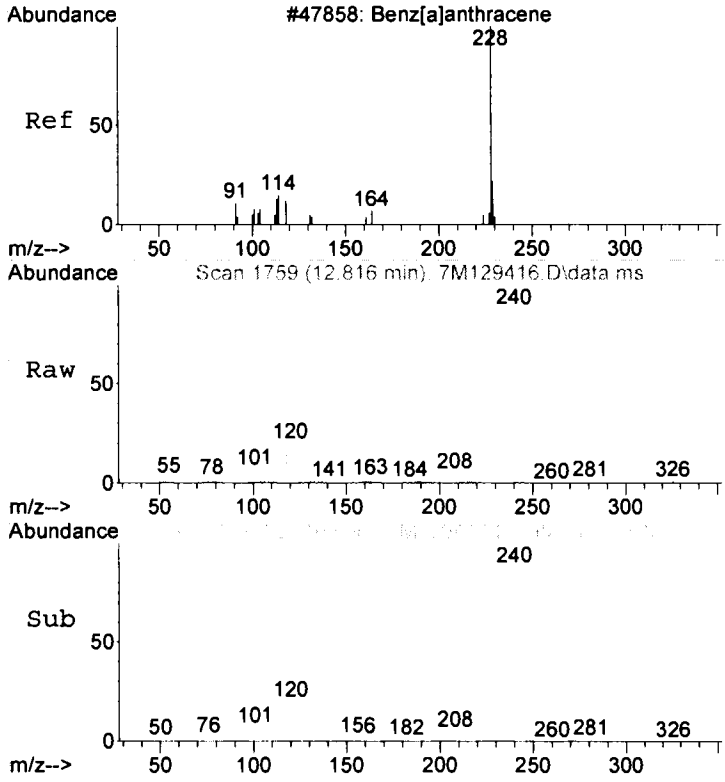


#92
Pyrene
Concen: 20.07 ng
RT: 11.383 min Scan# 1515
Delta R.T. 0.006 min
Lab File: 7M129416.D
Acq: 22 Jun 2023 13:06

Tgt Ion:202 Resp: 150357

Ion	Ratio	Lower	Upper
202	100		
101	18.1	0.0	62.2
100	15.0	0.0	57.8

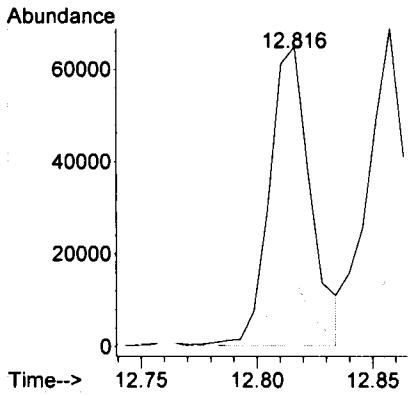


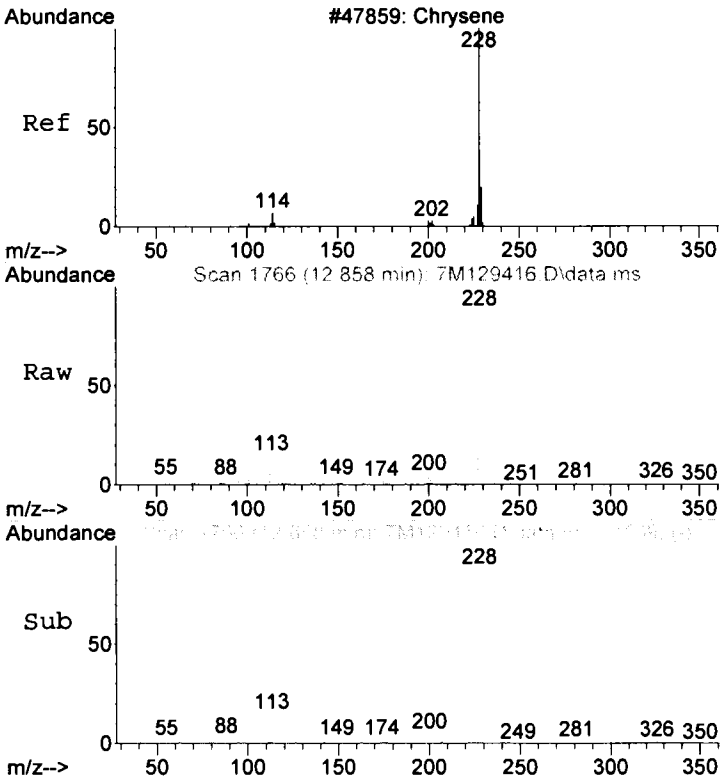


#100
Benzo[a]anthracene
Concen: 12.08 ng m
RT: 12.816 min Scan# 1759
Delta R.T. 0.006 min
Lab File: 7M129416.D
Acq: 22 Jun 2023 13:06

Tgt Ion:228 Resp: 79923

Ion	Ratio	Lower	Upper
228	100		
229	22.5	0.0	59.5
226	29.1	0.0	66.0

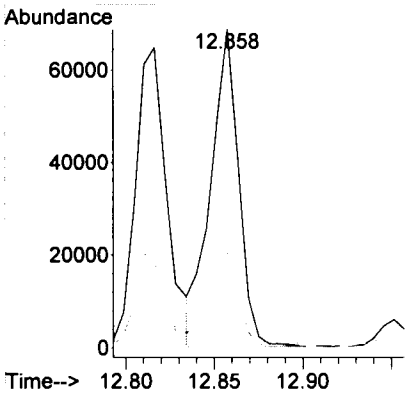


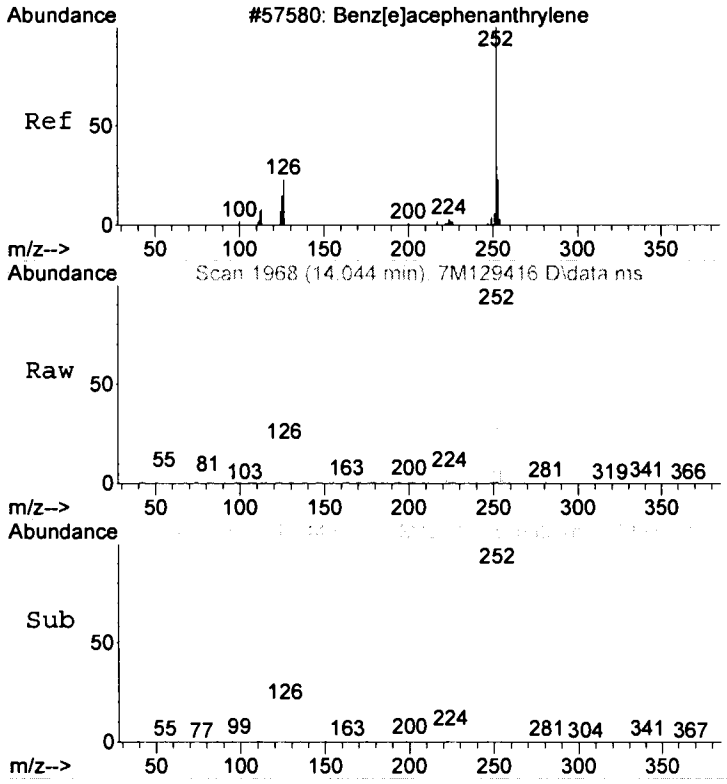


#101
Chrysene
Concen: 13.03 ng
RT: 12.858 min Scan# 1766
Delta R.T. 0.006 min
Lab File: 7M129416.D
Acq: 22 Jun 2023 13:06

Tgt Ion:228 Resp: 75572

Ion	Ratio	Lower	Upper
228	100		
226	30.0	9.5	49.5
229	21.9	0.0	60.2

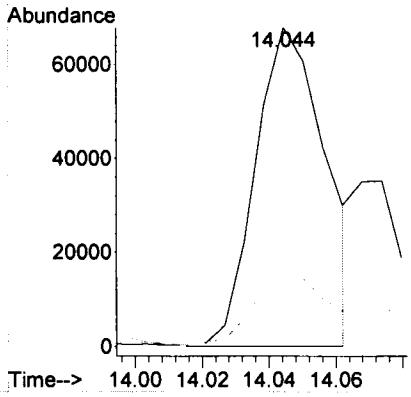


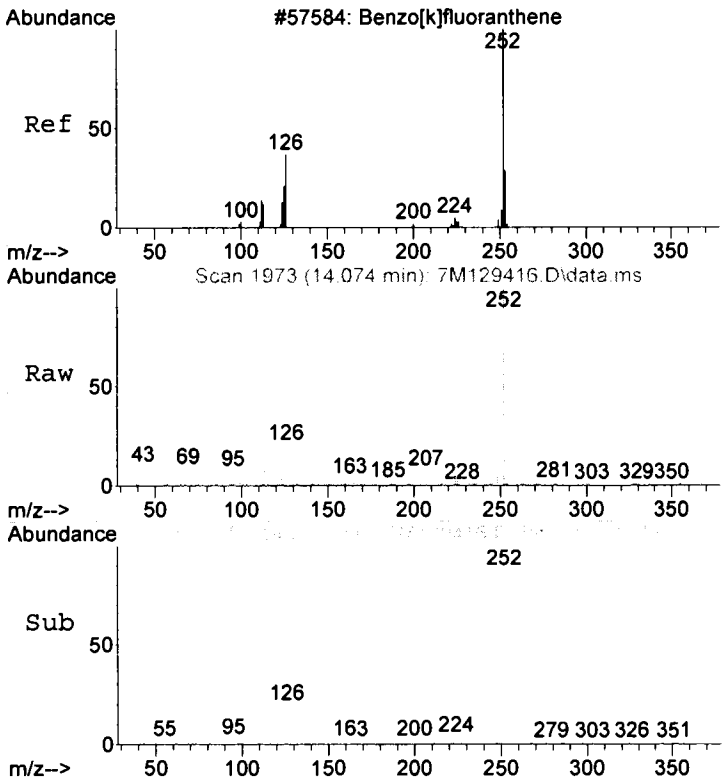


#105
Benzo[b]fluoranthene
Concen: 16.15 ng m
RT: 14.044 min Scan# 1968
Delta R.T. -0.012 min
Lab File: 7M129416.D
Acq: 22 Jun 2023 13:06

Tgt Ion:252 Resp: 98283

Ion	Ratio	Lower	Upper
252	100		
253	22.3	0.0	62.3
125	15.6	0.0	58.4

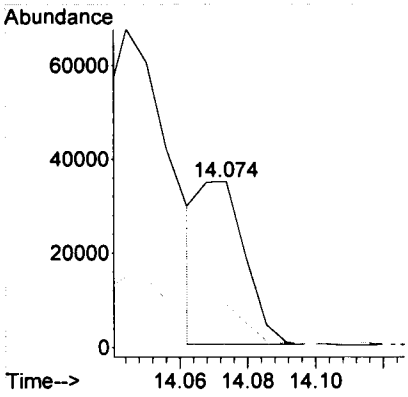


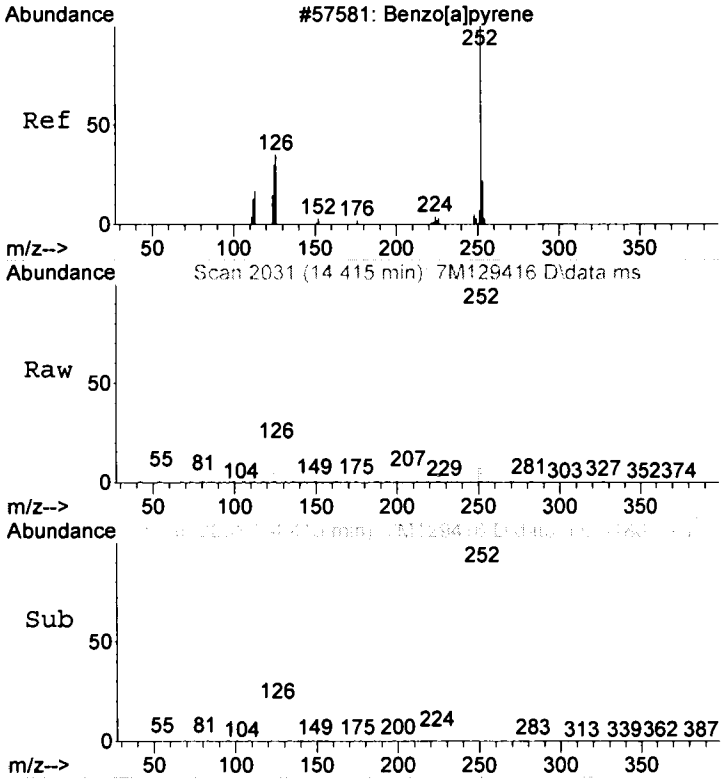


#106
Benzo[k]fluoranthene
Concen: 5.77 ng m
RT: 14.074 min Scan# 1973
Delta R.T. -0.012 min
Lab File: 7M129416.D
Acq: 22 Jun 2023 13:06

Tgt Ion:252 Resp: 32334

Ion	Ratio	Lower	Upper
252	100		
253	25.7	0.0	122.2
125	14.3	0.0	118.9

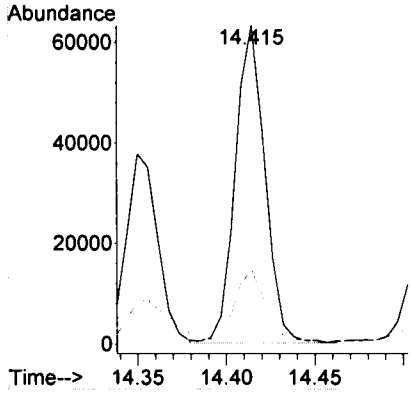


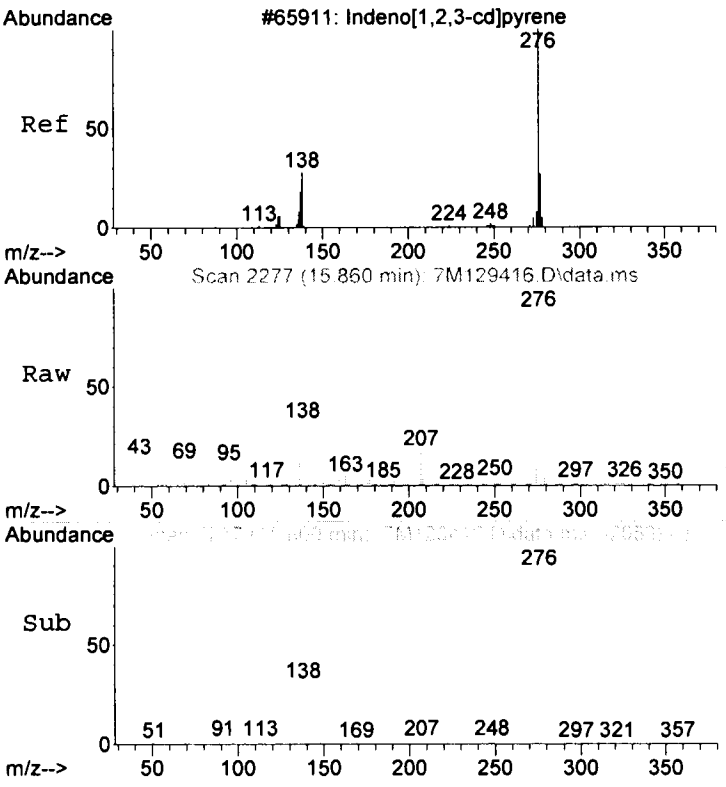


#107
Benzo[a]pyrene
Concen: 14.02 ng
RT: 14.415 min Scan# 2031
Delta R.T. -0.012 min
Lab File: 7M129416.D
Acq: 22 Jun 2023 13:06

Tgt Ion:252 Resp: 73484

Ion	Ratio	Lower	Upper
252	100		
253	22.1	0.0	62.4
125	14.0	0.0	60.9

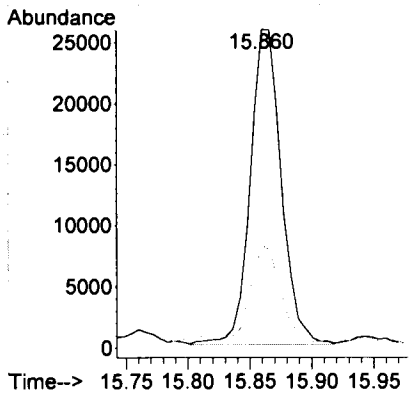


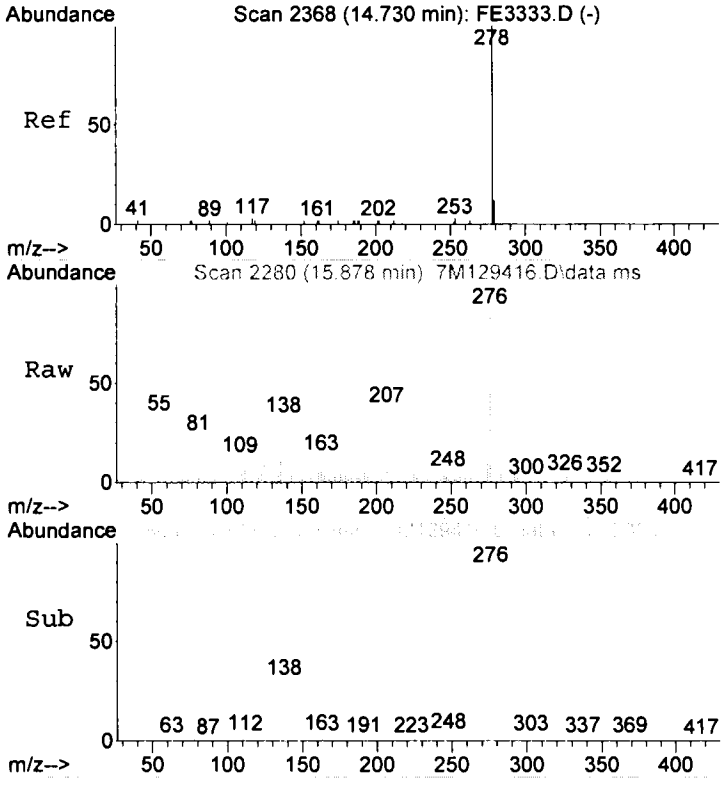


#108
Indeno[1,2,3-cd]pyrene
Concen: 7.39 ng
RT: 15.860 min Scan# 2277
Delta R.T. -0.012 min
Lab File: 7M129416.D
Acq: 22 Jun 2023 13:06

Tgt Ion:276 Resp: 44963

Ion	Ratio	Lower	Upper
276	100		
138	30.2	0.0	78.9

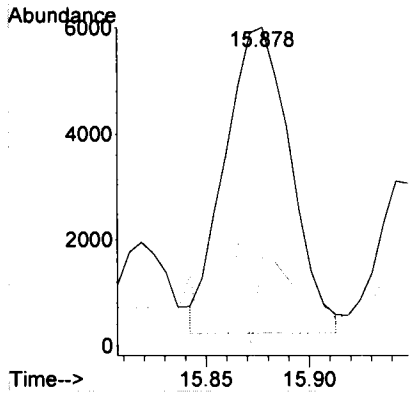


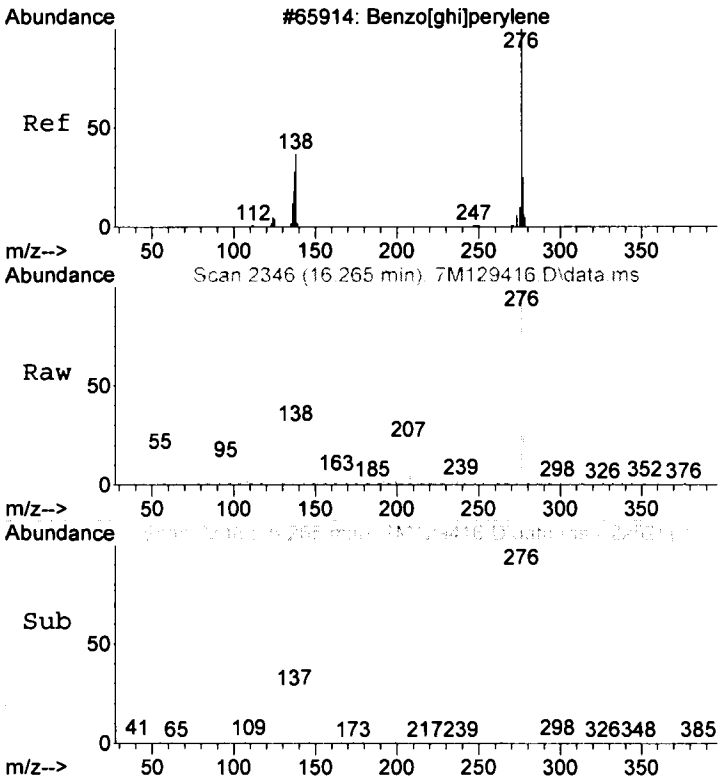


#109
Dibenzo[a,h]anthracene
Concen: 2.52 ng
RT: 15.878 min Scan# 2280
Delta R.T. -0.024 min
Lab File: 7M129416.D
Acq: 22 Jun 2023 13:06

Tgt Ion:278 Resp: 12712

Ion	Ratio	Lower	Upper
278	100		
139	21.9	0.0	72.0
279	27.1	0.0	63.9

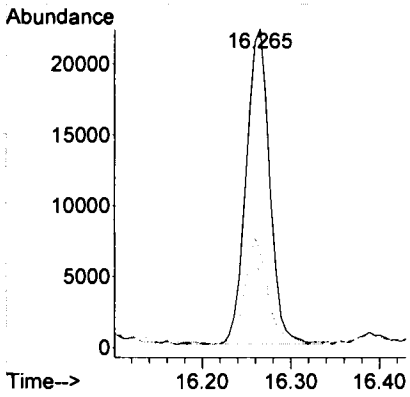




#110
Benzo[g,h,i]perylene
Concen: 8.15 ng
RT: 16.265 min Scan# 2346
Delta R.T. -0.012 min
Lab File: 7M129416.D
Acq: 22 Jun 2023 13:06

Tgt Ion:276 Resp: 40885

Ion	Ratio	Lower	Upper
276	100		
138	31.0	0.0	60.0
277	25.7	6.0	34.0



Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38537-008
Client Id: SB-9 10-12
Data File: 9M122408.D
Analysis Date: 06/21/23 19:40
Date Rec/Extracted: 06/13/23-06/21/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	0.040	U	218-01-9	Chrysene	0.040	U
83-32-9	Acenaphthene	0.040	U	53-70-3	Dibenzo[a,h]anthracene	0.040	U
208-96-8	Acenaphthylene	0.040	U	206-44-0	Fluoranthene	0.040	U
120-12-7	Anthracene	0.040	U	86-73-7	Fluorene	0.040	U
56-55-3	Benzo[a]anthracene	0.040	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.040	U
50-32-8	Benzo[a]pyrene	0.040	U	91-20-3	Naphthalene	0.010	U
205-99-2	Benzo[b]fluoranthene	0.040	U	85-01-8	Phenanthrene	0.040	U
191-24-2	Benzo[g,h,i]perylene	0.040	U	129-00-0	Pyrene	0.040	U
207-08-9	Benzo[k]fluoranthene	0.040	U				

Worksheet #: 696126

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

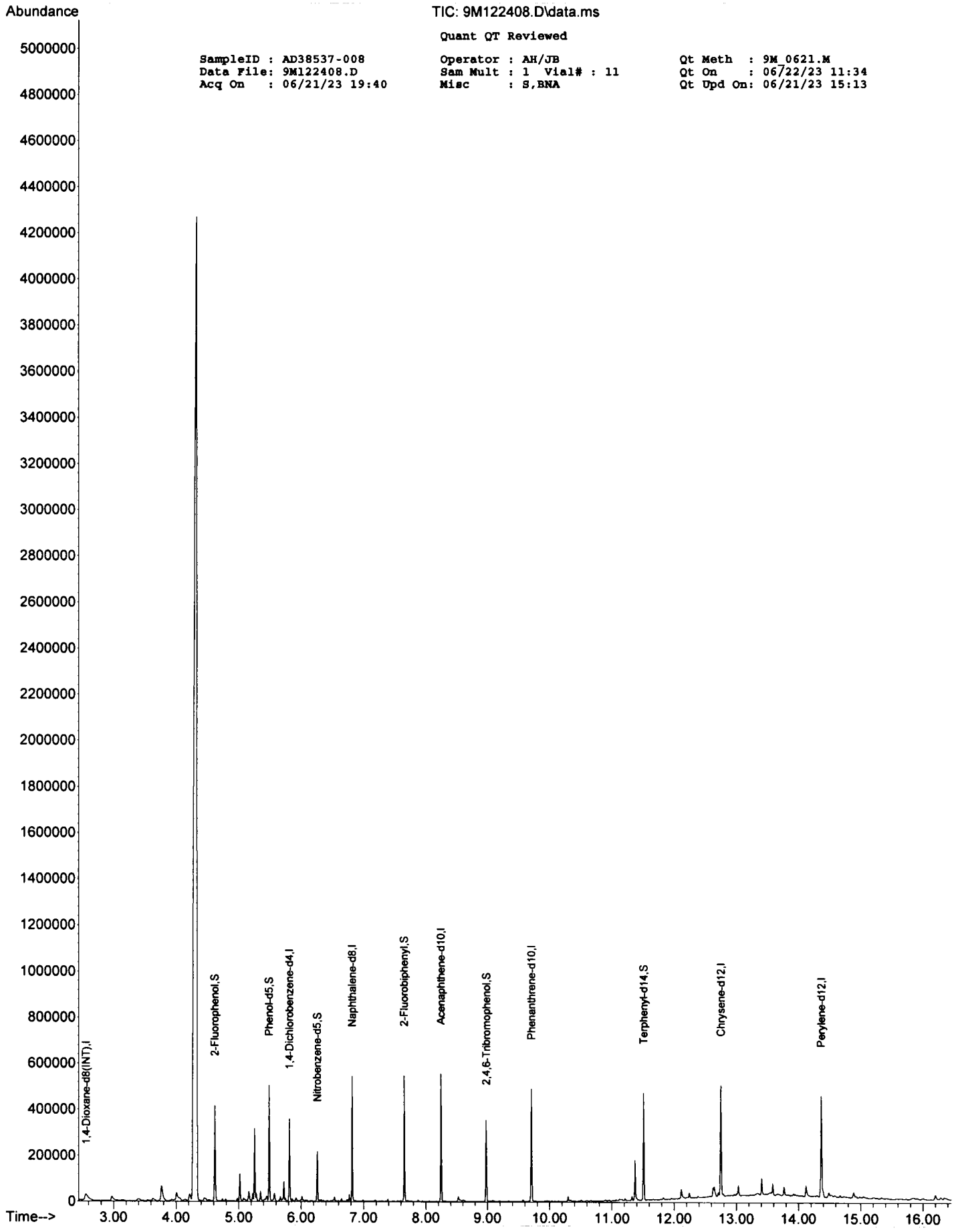
Quantitation Report (QT Reviewed)

SampleID : AD38537-008 Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122408.D Sam Mult : 1 Vial# : 11 Qt On : 06/22/23 11:34
Acq On : 06/21/23 19:40 Misc : S,BNA Qt Upd On: 06/21/23 15:13

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-2123\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.560	96	31256	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.813	152	54080	40.00	ng	0.00
31) Naphthalene-d8	6.819	136	203824	40.00	ng	0.00
50) Acenaphthene-d10	8.242	164	112173	40.00	ng	0.00
77) Phenanthrene-d10	9.707	188	199410	40.00	ng	0.00
91) Chrysene-d12	12.754	240	178266	40.00	ng	0.00
103) Perylene-d12	14.365	264	177352	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.619	112	114312	62.67	ng	0.01
Spiked Amount 100.000			Recovery = 62.67%			
16) Phenol-d5	5.490	99	143276	65.62	ng	0.00
Spiked Amount 100.000			Recovery = 65.62%			
32) Nitrobenzene-d5	6.260	128	30283	35.29	ng	0.00
Spiked Amount 50.000			Recovery = 70.58%			
55) 2-Fluorobiphenyl	7.654	172	147509	36.69	ng	0.00
Spiked Amount 50.000			Recovery = 73.38%			
80) 2,4,6-Tribromophenol	8.983	330	40315	80.92	ng	0.00
Spiked Amount 100.000			Recovery = 80.92%			
94) Terphenyl-d14	11.513	244	148268	42.31	ng	0.00
Spiked Amount 50.000			Recovery = 84.62%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M122408.D\data.ms
Quant QT Reviewed
SampleID : AD38537-008
Data File: 9M122408.D
Acq On : 06/21/23 19:40
Operator : AH/JB
Sam Mult : 1 Vial# : 11
Misc : S,BNA
Qt Meth : 9M_0621.M
Qt On : 06/22/23 11:34
Qt Upd On: 06/21/23 15:13
5000000
4800000
4600000
4400000
4200000
4000000
3800000
3600000
3400000
3200000
3000000
2800000
2600000
2400000
2200000
2000000
1800000
1600000
1400000
1200000
1000000
800000
600000
400000
200000
0
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->
3.00
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
16.00

GC/MS Base Neutral/Acid Extractable Data
Standards Data

3061310 0363

Form 6
Initial Calibration

Method: EPA 8270E

Instrument: GCMS_7

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	7M129292.D	CAL BNA@50PPM	06/19/23 12:21	2	7M129284.D	CAL BNA@2PPM	06/19/23 09:10
3	7M129290.D	CAL BNA@10PPM	06/19/23 11:34	4	7M129289.D	CAL BNA@20PPM	06/19/23 11:10
5	7M129293.D	CAL BNA@80PPM	06/19/23 13:08	6	7M129287.D	CAL BNA@120PPM	06/19/23 10:23
7	7M129286.D	CAL BNA@160PPM	06/19/23 10:00	8	7M129285.D	CAL BNA@196PPM	06/19/23 09:36
9	7M129291.D	CAL BNA@0.5PPM	06/19/23 11:57				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Avg	0.9928	1.0740	0.9963	1.0502	1.0440	1.0151	1.0198	1.0675	1.0458	1.03	2.66	0.999	0.999	2.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	1.8698	1.7163	1.7971	1.9882	2.0633	1.9724	1.9857	2.0769	-----	1.93	3.12	0.999	0.999	6.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.4717	1.5609	1.5125	1.5468	1.5922	1.5158	1.5096	1.6142	-----	1.54	3.07	0.998	0.998	3.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.3015	2.5048	2.3634	2.5024	2.5215	2.3714	2.3546	2.4241	-----	2.42	4.64	0.999	0.999	3.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	1.9767	2.2143	2.1104	2.1774	1.9878	1.9297	1.8771	1.6575	-----	1.99	5.45	0.994	0.999	9.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	3.3993	3.8275	3.6949	3.8213	3.4438	3.2696	3.1223	2.7368	3.8449	3.46	5.55	0.987	0.998	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.8338	1.0482	0.9068	0.9328	0.8649	0.8282	0.8126	0.7954	-----	0.878	5.59	0.999	1.00	9.5	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	2.2419	2.6542	2.4858	2.5511	2.3041	2.1525	2.0934	2.2533	2.7201	2.38	5.61	0.997	0.998	9.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	2.7705	3.0285	2.9359	3.1204	2.9451	2.7222	2.6547	2.6747	-----	2.86	5.52	0.999	0.999	6.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.2178	3.5680	3.4738	3.6244	3.3369	3.0696	2.9302	2.8184	-----	3.25	5.53	0.995	1.00	9.2	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.3375	2.6986	2.5380	2.6402	2.4757	2.3082	2.2749	2.3159	-----	2.45	5.65	0.999	0.999	6.7	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	2.2366	2.8581	2.5481	2.5835	2.2443	2.1290	2.0274	1.9451	-----	2.32	5.69	0.996	1.00	13	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	2.4018	2.9329	2.6526	2.7503	2.4633	2.3429	2.2937	2.2455	-----	2.51	5.78	0.999	1.00	9.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.4823	1.6756	1.5270	1.6247	1.5420	1.4649	1.4557	1.4215	-----	1.52	5.84	0.999	1.00	5.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.4177	1.6312	1.4772	1.5602	1.4714	1.3834	1.3650	1.3152	-----	1.45	5.96	0.998	1.00	7.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	1.0098	1.0891	1.0147	1.0944	1.0513	0.9901	0.9785	1.0121	-----	1.03	5.94	0.999	0.999	4.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.6924	1.9946	1.7460	1.8579	1.7103	1.5743	1.5354	1.4724	-----	1.70	6.05	0.996	1.00	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.3437	1.4330	1.3766	1.4806	1.4146	1.2983	1.2974	1.3294	1.4307	1.38	6.03	0.999	0.999	4.7	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.9669	2.3673	2.1429	2.2398	1.9366	1.8011	1.7740	1.7855	-----	2.00	6.15	0.999	0.999	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.6135	0.6743	0.6096	0.6576	0.6321	0.6021	0.6026	0.6145	-----	0.626	6.24	1.00	1.00	4.3	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	0.9496	1.1742	1.0343	1.1001	0.9406	0.8658	0.8374	0.8714	1.1581	0.992	6.15	0.998	0.998	13	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.3091	1.5247	1.4385	1.5105	1.3056	1.2059	1.1690	1.1535	1.5473	1.35	6.15	0.995	0.999	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1789	0.2032	0.1739	0.1822	0.1902	0.1787	0.1818	0.1896	-----	0.185	6.28	0.999	0.999	5.0		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3748	0.4374	0.3824	0.3960	0.3858	0.3639	0.3597	0.3678	-----	0.384	6.29	0.999	0.999	6.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.7101	0.7868	0.7205	0.7459	0.7452	0.6936	0.7077	0.7631	-----	0.734	6.48	0.996	0.998	4.3	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.2037	0.2077	0.1993	0.2125	0.2194	0.2053	0.2050	0.2113	-----	0.208	6.54	0.999	0.999	3.0	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Avg	0.3632	0.3854	0.3706	0.3854	0.3762	0.3482	0.3478	0.3635	0.4065	0.372	6.56	0.999	0.999	5.1	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Avg	0.2942	-----	0.2056	0.2882	0.3377	0.3244	0.3320	0.3398	-----	0.303	6.65	0.999	0.999	16		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.4222	0.4798	0.4306	0.4474	0.4315	0.4061	0.4046	0.4152	-----	0.430	6.64	0.999	0.999	5.8	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Avg	0.2963	0.3185	0.2959	0.3190	0.3093	0.2914	0.2881	0.2907	0.2933	0.300	6.72	0.999	1.00	4.0	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.2995	0.3352	0.3063	0.3226	0.3123	0.2972	0.2956	0.3004	-----	0.309	6.79	1.00	1.00	4.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	1.0500	1.1922	1.0597	1.0859	1.0560	0.9743	0.9782	0.9562	1.2744	1.07	6.85	0.999	1.00	9.8	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.4253	0.4527	0.4302	0.4608	0.3662	0.3889	0.3721	0.3148	0.4241	0.404	6.89	0.988	0.997	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1533	0.1632	0.1520	0.1608	0.1629	0.1566	0.1564	0.1612	-----	0.158	6.94	0.999	0.999	2.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.1320	0.1266	0.1284	0.1379	0.1437	0.1327	0.1456	0.1573	-----	0.138	7.18	0.992	0.998	7.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.3295	0.3454	0.3233	0.3460	0.3472	0.3236	0.3201	0.3374	-----	0.334	7.26	0.998	0.998	3.4	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.6801	0.7537	0.6919	0.7412	0.7069	0.6626	0.6580	0.6567	-----	0.694	7.39	0.999	1.00	5.4	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6403	0.7164	0.6532	0.6887	0.6553	0.6154	0.6055	0.6182	-----	0.649	7.47	0.999	0.999	5.9	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Avg	0.6603	0.7363	0.6737	0.7160	0.6829	0.6388	0.6319	0.6374	-----	0.672	7.39	0.999	0.999	5.7		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.8379	0.9694	0.8765	0.9169	0.8597	0.8076	0.8087	0.8178	-----	0.862	7.77	0.999	0.999	6.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.4916	0.5524	0.4988	0.5386	0.5095	0.4880	0.4949	0.4872	-----	0.508	7.52	1.00	1.00	4.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 6.69
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

3061310 0364

Form 6
Initial Calibration

Method: EPA 8270E

Instrument: GCMS_7

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	7M129292.D	CAL BNA@50PPM	06/19/23 12:21	2	7M129284.D	CAL BNA@2PPM	06/19/23 09:10
3	7M129290.D	CAL BNA@10PPM	06/19/23 11:34	4	7M129289.D	CAL BNA@20PPM	06/19/23 11:10
5	7M129293.D	CAL BNA@80PPM	06/19/23 13:08	6	7M129287.D	CAL BNA@120PPM	06/19/23 10:23
7	7M129286.D	CAL BNA@160PPM	06/19/23 10:00	8	7M129285.D	CAL BNA@196PPM	06/19/23 09:36
9	7M129291.D	CAL BNA@0.5PPM	06/19/23 11:57				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Qua	0.1591	0.0465	0.0814	0.1223	0.1632	0.1782	0.1920	0.2199	-----	0.145	7.51	0.983	0.999	40	0.05 a	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.3521	0.3828	0.4053	0.3829	0.3707	0.3584	0.3669	0.3756	-----	0.374	7.62	0.999	1.00	4.4	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.3794	0.3978	0.3762	0.4071	0.3998	0.3863	0.3941	0.4040	-----	0.393	7.65	0.999	1.00	2.9	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.2823	1.3809	1.2872	1.3907	1.3129	1.2649	1.2593	1.2600	-----	1.30	7.68	1.00	1.00	4.1		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.1099	1.2106	1.1609	1.2008	1.1103	1.0739	1.0440	1.0287	-----	1.12	7.79	0.999	1.00	6.1	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	0.8646	1.0466	0.9397	0.9692	0.8325	0.7969	0.7713	0.7278	-----	0.869	8.08	0.996	1.00	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	0.8646	1.0466	0.9397	0.9692	0.8325	0.7969	0.7713	0.7278	-----	0.869	8.08	0.995	1.00	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.7903	0.8969	0.8191	0.8665	0.8032	0.7637	0.7679	0.7590	-----	0.808	7.85	1.00	1.00	6.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.4102	0.4565	0.4306	0.4544	0.4080	0.3915	0.3903	0.3927	-----	0.417	7.87	1.00	1.00	6.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4640	0.5299	0.4907	0.5182	0.4536	0.4314	0.4076	0.3734	-----	0.459	8.06	0.991	1.00	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.5675	1.7239	1.6321	1.6959	1.5782	1.5026	1.4889	1.4357	-----	1.58	8.15	0.998	1.00	6.4	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.2651	1.4173	1.3233	1.4012	1.2999	1.2440	1.2516	1.2932	-----	1.31	8.02	0.999	0.999	5.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.2709	0.3389	0.3082	0.3195	0.2713	0.2601	0.2604	0.2638	-----	0.287	8.08	1.00	1.00	11	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.0511	1.1724	1.0848	1.1510	1.0658	1.0264	1.0314	1.0076	-----	1.07	8.30	0.999	1.00	5.5	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3440	0.3698	0.3541	0.3749	0.3080	0.3279	0.3155	0.3082	-----	0.338	8.23	0.998	0.999	8.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Avg	0.1482	-----	0.0986	0.1499	0.1769	0.1717	0.1790	0.1950	-----	0.160	8.32	0.994	0.998	20	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.5655	1.7486	1.6372	1.7013	1.5842	1.5086	1.4897	1.4221	1.8480	1.61	8.46	0.998	1.00	8.4	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Avg	0.4118	0.3992	0.3954	0.4444	0.4358	0.4215	0.4148	0.4109	-----	0.417	8.44	0.999	1.00	4.0	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Avg	0.2517	0.2577	0.2297	0.2446	0.2769	0.2600	0.2600	0.2785	-----	0.257	8.36	0.997	0.998	6.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.2987	0.2797	0.2794	0.3099	0.3151	0.3013	0.3114	0.3203	-----	0.302	8.57	0.999	1.00	5.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.2620	1.4085	1.3221	1.3867	1.2811	1.2147	1.2164	1.1954	-----	1.29	8.79	0.999	1.00	6.2	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.5957	0.6490	0.5912	0.6510	0.6269	0.5971	0.5919	0.5939	-----	0.612	8.77	1.00	1.00	4.3	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.2490	1.3868	1.2757	1.3765	1.2969	1.2386	1.2249	1.2242	-----	1.28	8.65	1.00	1.00	5.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.3618	0.3887	0.3639	0.3925	0.3739	0.3601	0.3599	0.3634	-----	0.371	8.80	1.00	1.00	3.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.3873	0.4002	0.3786	0.4193	0.4071	0.3871	0.3894	0.3963	-----	0.396	9.43	0.999	1.00	3.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Avg	0.1262	-----	0.1030	0.1281	0.1399	0.1341	0.1356	0.1417	-----	0.130	8.83	0.998	0.999	10	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6377	0.7214	0.6636	0.7072	0.6618	0.6258	0.6198	0.6290	-----	0.658	8.89	0.999	0.999	5.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Avg	0.0847	0.0869	0.0793	0.0897	0.0933	0.0884	0.0921	0.1017	-----	0.0895	9.02	0.993	0.998	7.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.8072	0.9618	0.7980	0.8277	0.8228	0.7721	0.7591	0.7356	-----	0.811	8.93	0.998	1.00	8.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.1972	0.2032	0.1930	0.2102	0.2138	0.2037	0.2009	0.2149	-----	0.205	9.27	0.998	0.998	3.8	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2052	0.2181	0.2031	0.2213	0.2243	0.2114	0.2153	0.2267	-----	0.216	9.34	0.998	0.999	4.0	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.3776	0.4315	0.3978	0.4358	0.3777	0.3598	0.3516	0.3273	-----	0.382	9.60	0.995	0.999	9.9	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Avg	0.1150	-----	0.0876	0.1133	0.1358	0.1273	0.1339	0.1452	-----	0.123	9.54	0.994	0.997	16	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.0190	1.1977	1.0789	1.1340	1.0787	1.0039	0.9907	1.0054	-----	1.06	9.77	0.999	0.999	6.9	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.0538	1.1848	1.1013	1.1746	1.0956	1.0264	1.0196	1.0069	-----	1.08	9.83	0.999	1.00	6.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	1.0312	1.1659	1.0570	1.1514	1.0777	1.0070	1.0013	0.9991	-----	1.06	10.00	0.999	0.999	6.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Avg	1.2812	1.3946	1.3159	1.4291	1.3433	1.2522	1.2417	1.2259	1.4241	1.32	10.38	0.999	1.00	6.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.1520	1.2074	1.1436	1.2553	1.2206	1.1268	1.1204	1.1280	-----	1.17	11.11	0.999	0.999	4.4	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.4470	1.5495	1.4214	1.5539	1.5277	1.4749	1.4372	1.5153	-----	1.49	11.38	0.999	0.999	3.5	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Avg	0.8647	0.9459	0.8645	0.9272	0.6617	0.8243	0.7779	0.8049	-----	0.834	11.27	0.993	0.994	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.8228	0.8476	0.7987	0.8592	0.9009	0.8706	0.8599	0.9870	-----	0.868	11.56	0.991	0.995	6.5		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Avg Rsd: 6.69

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note:

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_7

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	7M129292.D	CAL BNA@50PPM	06/19/23 12:21	2	7M129284.D	CAL BNA@2PPM	06/19/23 09:10
3	7M129290.D	CAL BNA@10PPM	06/19/23 11:34	4	7M129289.D	CAL BNA@20PPM	06/19/23 11:10
5	7M129293.D	CAL BNA@80PPM	06/19/23 13:08	6	7M129287.D	CAL BNA@120PPM	06/19/23 10:23
7	7M129286.D	CAL BNA@160PPM	06/19/23 10:00	8	7M129285.D	CAL BNA@196PPM	06/19/23 09:36
9	7M129291.D	CAL BNA@0.5PPM	06/19/23 11:57				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2883	0.3047	0.2750	0.3100	0.3113	0.3066	0.3063	0.3379	-----	0.305	11.49	0.995	0.998	6.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.5442	0.5709	0.5299	0.5842	0.5863	0.5625	0.5522	0.5919	-----	0.565	11.89	0.999	0.999	3.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Avg	0.7134	0.7462	0.6884	0.7621	0.7515	0.7330	0.7114	0.7540	-----	0.733	12.15	0.998	0.999	3.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.4085	0.4307	0.4075	0.4544	0.4184	0.4134	0.4014	0.4165	-----	0.419	12.25	0.999	0.999	4.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Avg	0.4604	0.5097	0.4619	0.4989	0.4639	0.4853	0.4677	0.4807	-----	0.479	12.78	0.999	0.999	3.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.2676	1.3985	1.2335	1.3371	1.3505	1.3052	1.2757	1.3641	-----	1.32	12.81	0.998	0.998	4.2	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.0847	1.2578	1.1567	1.2250	1.1545	1.1114	1.0813	1.1580	-----	1.15	12.85	0.998	0.998	5.5	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Avg	0.8900	1.0223	0.9337	0.9893	0.9110	0.8978	0.8564	0.8800	-----	0.923	12.85	0.999	0.999	6.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Avg	1.6649	1.8995	1.7042	1.8370	1.7442	1.6648	1.5819	1.6154	-----	1.71	13.62	0.999	0.999	6.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.1907	1.2795	1.2001	1.3076	1.2973	1.2297	1.3112	1.4532	-----	1.28	14.06	0.995	0.998	6.5	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.1821	1.3132	1.1964	1.2590	1.2276	1.1672	1.0315	1.0739	-----	1.18	14.09	0.994	0.997	7.8	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.0744	1.1165	1.0470	1.1354	1.1431	1.1014	1.0787	1.1531	-----	1.11	14.43	0.998	0.998	3.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.2411	1.2976	1.1918	1.3102	1.3460	1.2666	1.2437	1.3711	-----	1.28	15.87	0.998	0.998	4.6	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.0366	1.1028	1.0007	1.0968	1.1048	1.0388	1.0271	1.1223	-----	1.07	15.90	0.996	0.997	4.2	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	1.0219	1.0842	0.9831	1.0663	1.0939	1.0481	1.0306	1.1369	-----	1.06	16.28	0.996	0.997	4.5	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 6.69
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129292.D Sam Mult : 1 Vial# : 10 Qt On : 06/19/23 12:41
Acq On : 06/19/23 12:21 Misc : A,BNA Qt Upd On: 06/19/23 12:07

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.617	96	72028	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.825	152	114846	40.00	ng	0.00
31) Naphthalene-d8	6.835	136	457566	40.00	ng	0.00
50) Acenaphthene-d10	8.275	164	272153	40.00	ng	0.00
77) Phenanthrene-d10	9.750	188	477035	40.00	ng	0.00
91) Chrysene-d12	12.822	240	380525	40.00	ng	0.00
103) Perylene-d12	14.491	264	385859	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.644	112	207221	46.62	ng	0.00
Spiked Amount 100.000			Recovery = 46.62%			
16) Phenol-d5	5.519	99	249449	44.69	ng	0.00
Spiked Amount 100.000			Recovery = 44.69%			
32) Nitrobenzene-d5	6.277	128	51167	25.21	ng	0.00
Spiked Amount 50.000			Recovery = 50.42%			
55) 2-Fluorobiphenyl	7.681	172	218116	22.93	ng	0.00
Spiked Amount 50.000			Recovery = 45.86%			
80) 2,4,6-Tribromophenol	9.021	330	50526	46.84	ng	0.00
Spiked Amount 100.000			Recovery = 46.84%			
94) Terphenyl-d14	11.559	244	195705	25.15	ng	0.00
Spiked Amount 50.000			Recovery = 50.30%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.658	88	89389	48.8476	ng	100
9) Pyridine	3.122	79	168355	44.0497	ng	69
10) N-Nitrosodimethylamine	3.069	74	132508	44.0986	ng	72
12) Benzaldehyde	5.454	77	177974	42.9308	ng	75
13) Aniline	5.548	93	306060	44.4921	ng	90
14) Pentachloroethane	5.590	117	75076	45.5055	ng	87
15) bis(2-Chloroethyl)ether	5.607	93	201851	43.0260	ng	78
17) Phenol	5.531	94	289719	45.1824	ng	86
18) 2-Chlorophenol	5.648	128	210462	46.2042	ng	81
19) N-Decane	5.690	57	201372	53.8357	ng	90
20) 1,3-Dichlorobenzene	5.778	146	216249	42.4245	ng	98
22) 1,4-Dichlorobenzene	5.836	146	212800	47.4174	ng	97
23) 1,2-Dichlorobenzene	5.960	146	203530	48.1573	ng	99
24) Benzyl alcohol	5.942	108	144978	50.8693	ng	71
25) bis(2-chloroisopropyl)...	6.048	45	242968	67.5097	ng	97
26) 2-Methylphenol	6.030	108	192899	49.6632	ng	97
27) Acetophenone	6.154	105	282375	50.8196	ng	74
28) Hexachloroethane	6.236	117	88077	48.4868	ng	82
29) N-Nitroso-di-n-propyla...	6.154	70	136328	43.4208	ng	83
30) 3&4-Methylphenol	6.154	108	187943	46.5689	ng	96
33) Nitrobenzene	6.289	77	214400	43.3021	ng	81
34) Isophorone	6.477	82	406186	43.2669	ng	87
35) 2-Nitrophenol	6.541	139	116529	50.4959	ng	86
36) 2,4-Dimethylphenol	6.565	107	207746	43.4097	ng	96
37) Benzoic Acid	6.653	105	168269	40.3325	ng	43
38) bis(2-Chloroethoxy)met...	6.641	93	241511	45.8018	ng	97
39) 2,4-Dichlorophenol	6.724	162	169481	44.9452	ng	91
40) 1,2,4-Trichlorobenzene	6.788	180	171300	40.8987	ng	99
41) Naphthalene	6.853	128	600587	48.3069	ng	98
42) 4-Chloroaniline	6.888	127	243264m	51.4751	ng	
43) Hexachlorobutadiene	6.941	225	87735	33.4867	ng	97
44) Caprolactam	7.182	113	75512	52.6429	ng	68
45) 4-Chloro-3-methylphenol	7.258	107	188511	45.8616	ng	86
46) 2-Methylnaphthalene	7.393	142	389037	45.2375	ng	99
47) 1-Methylnaphthalene	7.470	142	366261	46.1001	ng	92
48) Methylnaphthalenes (To...	7.393	142	755433m	91.1591	ng	
49) 1,1'-Biphenyl	7.769	154	479245	44.8977	ng	93
51) 1,2,4,5-Tetrachloroben...	7.523	216	167251	40.9331	ng	99
52) Hexachlorocyclopentadiene	7.511	237	54147	23.2761	ng	98
53) 2,4,6-Trichlorophenol	7.617	196	119807	40.9329	ng	98
54) 2,4,5-Trichlorophenol	7.652	196	129082	42.2580	ng	99
56) 2-Chloronaphthalene	7.793	162	377585	47.1772	ng	92
57) 1,4-Dimethylnaphthalene	8.075	156	294152	44.5811	ng	88
58) Dimethylnaphthalenes (...	8.075	156	294152	44.5811	ng	88
59) Diphenyl Ether	7.852	170	268874	48.1570	ng	80
60) 2-Nitroaniline	7.869	65	139562	48.2356	ng	62
61) Coumarin	8.063	146	157849	48.6878	ng	73
62) Acenaphthylene	8.151	152	533268	47.2502	ng	100
63) Dimethylphthalate	8.016	163	430388	45.0400	ng	98
64) 2,6-Dinitrotoluene	8.075	165	92175	43.0663	ng	71
65) Acenaphthene	8.304	153	357600	45.8217	ng	98

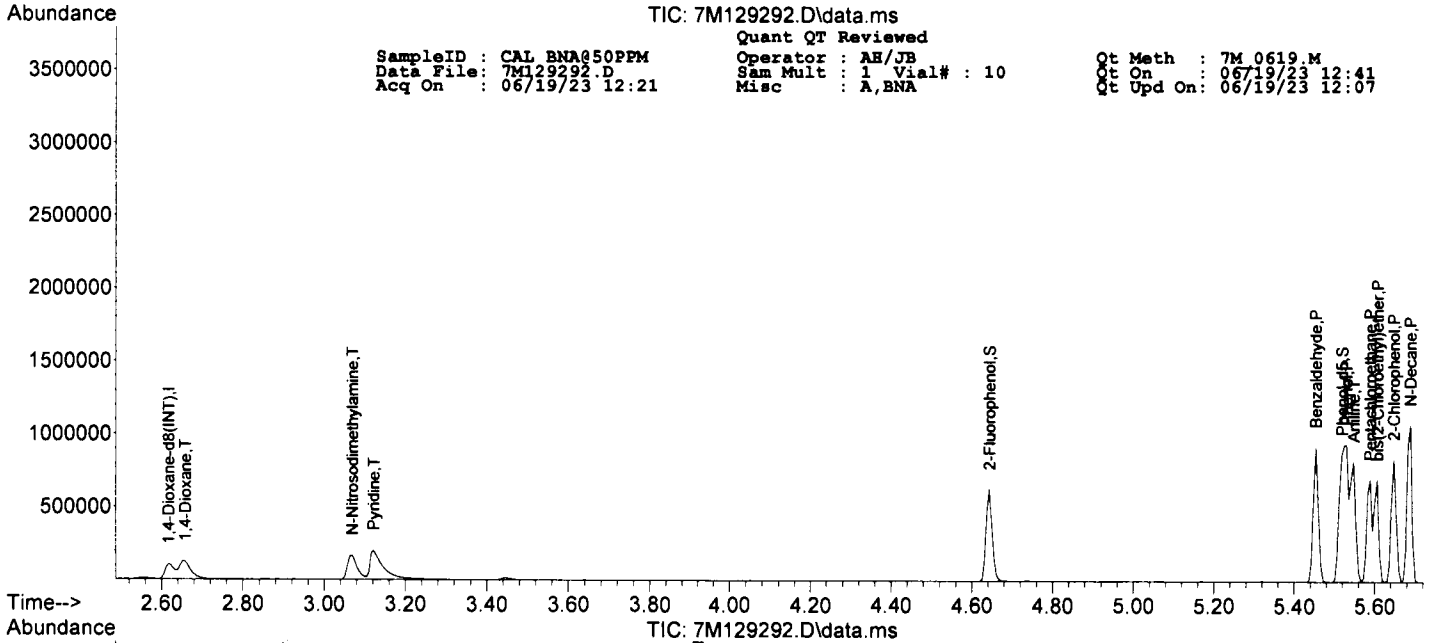
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129292.D Sam Mult : 1 Vial# : 10 Qt On : 06/19/23 12:41
Acq On : 06/19/23 12:21 Misc : A,BNA Qt Upd On: 06/19/23 12:07

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.228	138	117043	54.8644	ng	79
67)	2,4-Dinitrophenol	8.322	184	50433	46.3470	ng	40
68)	Dibenzofuran	8.463	168	532592	46.2696	ng	86
69)	2,4-Dinitrotoluene	8.439	165	140123	48.7950	ng	63
70)	4-Nitrophenol	8.363	65	85644	46.0627	ng	87
71)	2,3,4,6-Tetrachlorophenol	8.569	232	101635	39.4138	ng	85
72)	Fluorene	8.786	166	429329	45.4368	ng	99
73)	4-Chlorophenyl-phenyle...	8.774	204	202674	40.9258	ng	87
74)	Diethylphthalate	8.651	149	424925	44.3383	ng	98
75)	4-Nitroaniline	8.804	138	123083	52.3556	ng	76
76)	Atrazine	9.426	200	131786	46.1428	ng	98
78)	4,6-Dinitro-2-methylph...	8.827	198	75255	52.0893	ng	62
79)	n-Nitrosodiphenylamine	8.892	169	380256	48.9171	ng	98
81)	1,2-Diphenylhydrazine	8.933	77	481376	49.5439	ng	83
82)	4-Bromophenyl-phenylether	9.268	248	117635	43.1423	ng	83
83)	Hexachlorobenzene	9.338	284	122379	43.8196	ng	61
84)	N-Octadecane	9.603	57	225168	63.3145	ng	76
85)	Pentachlorophenol	9.538	266	68594	38.3981	ng	96
86)	Phenanthrene	9.773	178	607666	48.3035	ng	99
87)	Anthracene	9.832	178	628375	48.9102	ng	99
88)	Carbazole	10.002	167	614945	52.0355	ng	97
89)	Di-n-butylphthalate	10.378	149	764028	49.8482	ng	98
90)	Fluoranthene	11.113	202	686952	45.9876	ng	92
92)	Pyrene	11.377	202	688308	49.9324	ng	90
93)	Benzidine	11.265	184	411340	58.9903	ng	89
95)	4,4'-DDE	11.495	246	137166	43.7797	ng	94
96)	4,4'-DDD	11.894	235	258852	44.9888	ng	93
97)	Butylbenzylphthalate	12.153	149	339332	55.0083	ng	75
98)	4,4'-DDT	12.253	235	194342	44.6101	ng	96
99)	3,3'-Dichlorobenzidine	12.781	252	219012	49.5425	ng	96
100)	Benzo[a]anthracene	12.811	228	602986	46.8119	ng	99
101)	Chrysene	12.852	228	515956	43.7779	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.852	149	423334	53.7679	ng	92
104)	Di-n-octylphthalate	13.616	149	803065	52.0680	ng	100
105)	Benzo[b]fluoranthene	14.056	252	574341m	42.5323	ng	
106)	Benzo[k]fluoranthene	14.086	252	570153	47.0435	ng	95
107)	Benzo[a]pyrene	14.426	252	518233	45.6599	ng	93
108)	Indeno[1,2,3-cd]pyrene	15.872	276	598621	44.5152	ng	87
109)	Dibenzo[a,h]anthracene	15.901	278	500004	44.8705	ng	90
110)	Benzo[g,h,i]perylene	16.277	276	492915	46.1579	ng	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed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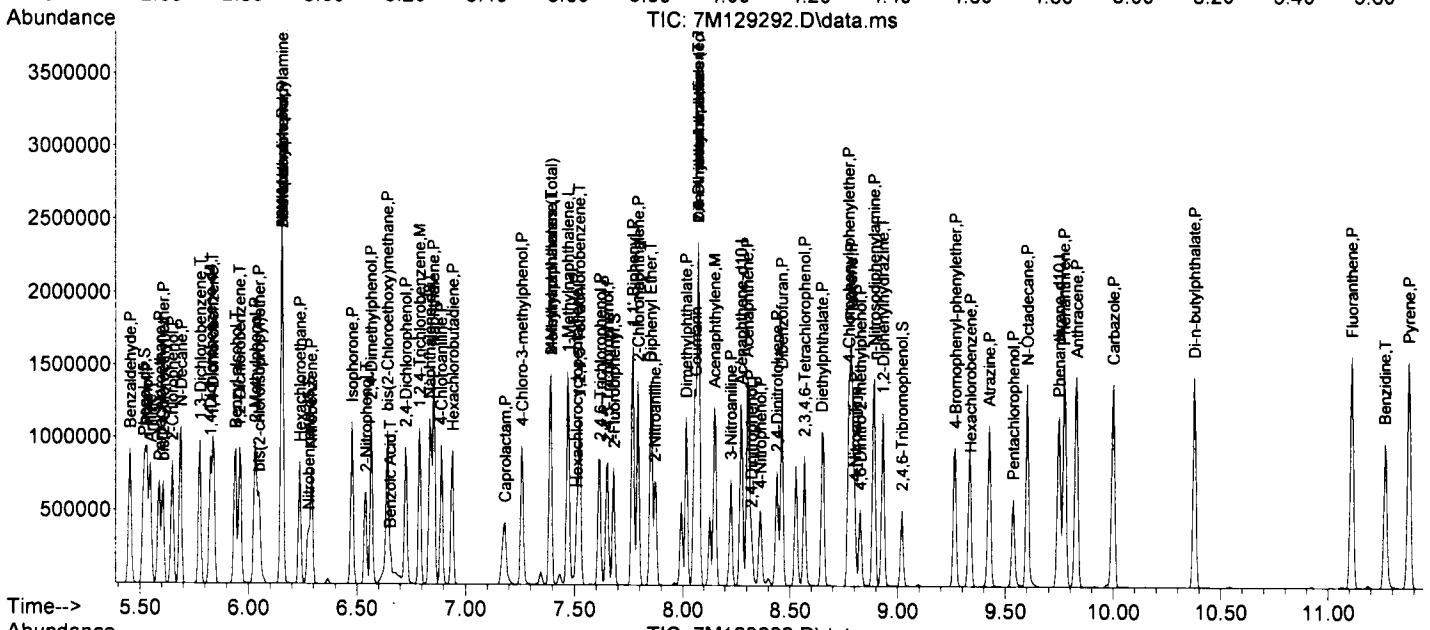
Quant QT Reviewed
SampleID : CAL BNA@50PPM
Data File: 7M129292.D
Acq On : 06/19/23 12:21
Operator : AH/JB
Sam Mult : 1 Vial# : 10
Misc : A,BNA
Qt Meth : 7M_0619.M
Qt On : 06/19/23 12:41
Qt Upd On: 06/19/23 12:07
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->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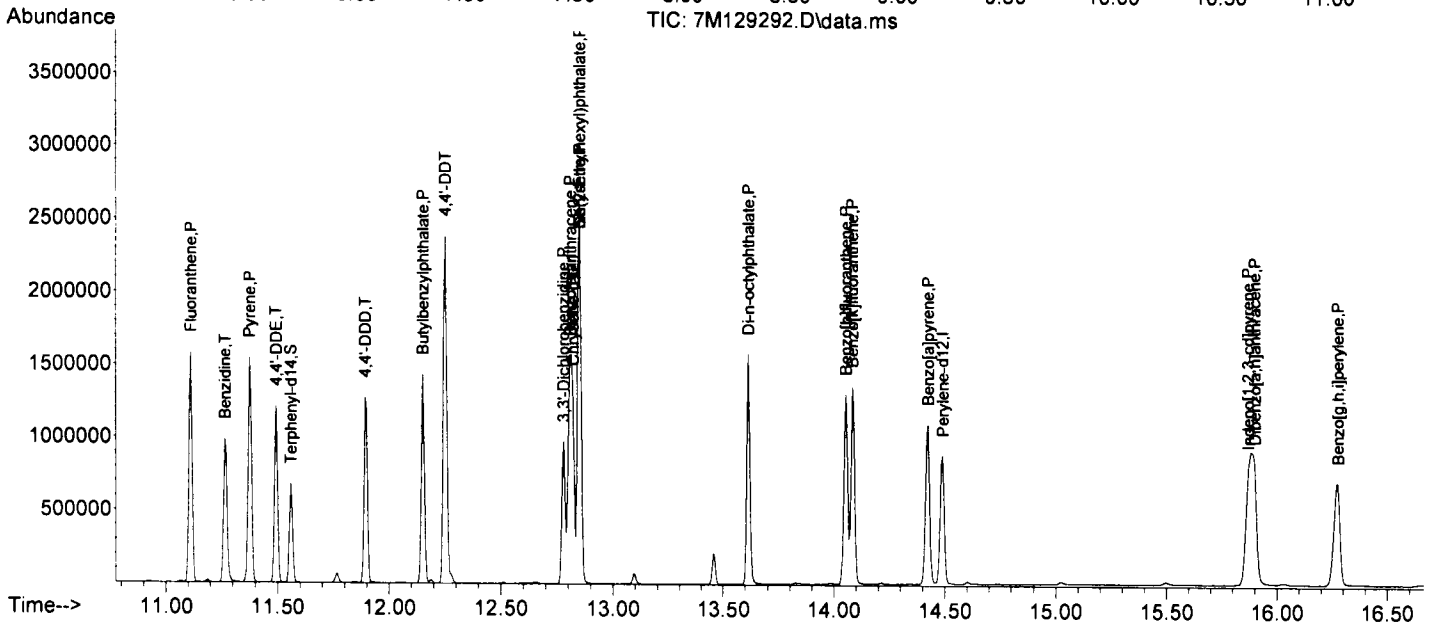
Benzaldehyde,P
Isophorone,P
Caprolactam,P
4-Chloro-3-methylphenol,P
Hexachlorobutadiene,P
Diethylphthalate,P
2,3,4,6-Tetrachlorophenol,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 7M129292.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@2PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129284.D Sam Mult : 1 Vial# : 2 Qt On : 06/19/23 12:07
Acq On : 06/19/23 09:10 Misc : A,BNA Qt Upd On: 06/19/23 12:07

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.622	96	77595	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.825	152	132834	40.00	ng	0.00
31) Naphthalene-d8	6.829	136	541464	40.00	ng	0.00
50) Acenaphthene-d10	8.269	164	327568	40.00	ng	0.00
77) Phenanthrene-d10	9.744	188	548905	40.00	ng	0.00
91) Chrysene-d12	12.817	240	448163	40.00	ng	-0.01
103) Perylene-d12	14.473	264	421975	40.00	ng	-0.01
System Monitoring Compounds						
11) 2-Fluorophenol	4.644	112	9718m	2.03	ng	0.00
Spiked Amount 100.000			Recovery = 2.03%			
16) Phenol-d5	5.513	99	11750	1.95	ng	-0.01
Spiked Amount 100.000			Recovery = 1.95%			
32) Nitrobenzene-d5	6.271	128	2751	1.15	ng	0.00
Spiked Amount 50.000			Recovery = 2.30%			
55) 2-Fluorobiphenyl	7.675	172	11309	0.99	ng	0.00
Spiked Amount 50.000			Recovery = 1.98%			
80) 2,4,6-Tribromophenol	9.015	330	2385	1.92	ng	-0.01
Spiked Amount 100.000			Recovery = 1.92%			
94) Terphenyl-d14	11.559	244	9497	1.04	ng	0.00
Spiked Amount 50.000			Recovery = 2.08%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.664	88	4167	2.1137	ng	96
9) Pyridine	3.157	79	6659	1.6173	ng	71
10) N-Nitrosodimethylamine	3.081	74	6056	1.8708	ng	69
12) Benzaldehyde	5.454	77	8591	1.9236	ng	73
13) Aniline	5.543	93	14850	2.0039	ng	90
14) Pentachloroethane	5.584	117	4067	2.2883	ng	88
15) bis(2-Chloroethyl)ether	5.601	93	10298	2.0376	ng	78
17) Phenol	5.525	94	13843	2.0040	ng	89
18) 2-Chlorophenol	5.648	128	10470	2.1336	ng	77
19) N-Decane	5.684	57	11089	2.7519	ng	94
20) 1,3-Dichlorobenzene	5.772	146	11379	2.0722	ng	98
22) 1,4-Dichlorobenzene	5.836	146	11129	2.1440	ng	97
23) 1,2-Dichlorobenzene	5.960	146	10834	2.2163	ng	97
24) Benzyl alcohol	5.936	108	7234	2.1945	ng	75
25) bis(2-chloroisopropyl)...	6.048	45	13248	3.1825	ng	97
26) 2-Methylphenol	6.030	108	9518	2.1186	ng	98
27) Acetophenone	6.148	105	15723	2.4465	ng	72
28) Hexachloroethane	6.236	117	4479	2.1318	ng	84
29) N-Nitroso-di-n-propyla...	6.148	70	7799	2.1476	ng	81
30) 3&4-Methylphenol	6.154	108	10127	2.1695	ng	96
33) Nitrobenzene	6.289	77	11842	2.0211	ng	78
34) Isophorone	6.471	82	21302	1.9175	ng	89
35) 2-Nitrophenol	6.536	139	5623	2.0591	ng	90
36) 2,4-Dimethylphenol	6.565	107	10436	1.8428	ng	92
37) Benzoic Acid	0.000		0	N.D. d		
38) bis(2-Chloroethoxy)met...	6.635	93	12991	2.0820	ng	91
39) 2,4-Dichlorophenol	6.724	162	8623	1.9324	ng	84
40) 1,2,4-Trichlorobenzene	6.782	180	9075	1.8310	ng	97
41) Naphthalene	6.847	128	32277	2.1939	ng	98
42) 4-Chloroaniline	6.882	127	12257m	2.1917	ng	
43) Hexachlorobutadiene	6.935	225	4420	1.4256	ng	94
44) Caprolactam	7.135	113	3430	2.0207	ng	72
45) 4-Chloro-3-methylphenol	7.247	107	9351	1.9225	ng	88
46) 2-Methylnaphthalene	7.382	142	20406	2.0052	ng	97
47) 1-Methylnaphthalene	7.464	142	19397	2.0631	ng	89
48) Methylnaphthalenes (To...	7.464	142	39870m	4.0657	ng	
49) 1,1'-Biphenyl	7.758	154	26246	2.0778	ng	95
51) 1,2,4,5-Tetrachloroben...	7.517	216	9048	1.8398	ng	95
52) Hexachlorocyclopentadiene	7.505	237	762	0.2721	ng	92
53) 2,4,6-Trichlorophenol	7.605	196	6271	1.7801	ng	93
54) 2,4,5-Trichlorophenol	7.640	196	6516	1.7723	ng	97
56) 2-Chloronaphthalene	7.781	162	19829	2.0584	ng	96
57) 1,4-Dimethylnaphthalene	8.063	156	17142	2.1585	ng	93
58) Dimethylnaphthalenes (...	8.063	156	17142	2.1585	ng	93
59) Diphenyl Ether	7.846	170	14690	2.1860	ng	79
60) 2-Nitroaniline	7.858	65	7477	2.1470	ng	66
61) Coumarin	8.046	146	8679	2.2241	ng	79
62) Acenaphthylene	8.145	152	28235	2.0785	ng	99
63) Dimethylphthalate	8.004	163	23214	2.0184	ng	95
64) 2,6-Dinitrotoluene	8.063	165	5551	2.1548	ng	70
65) Acenaphthene	8.298	153	19203	2.0443	ng	96

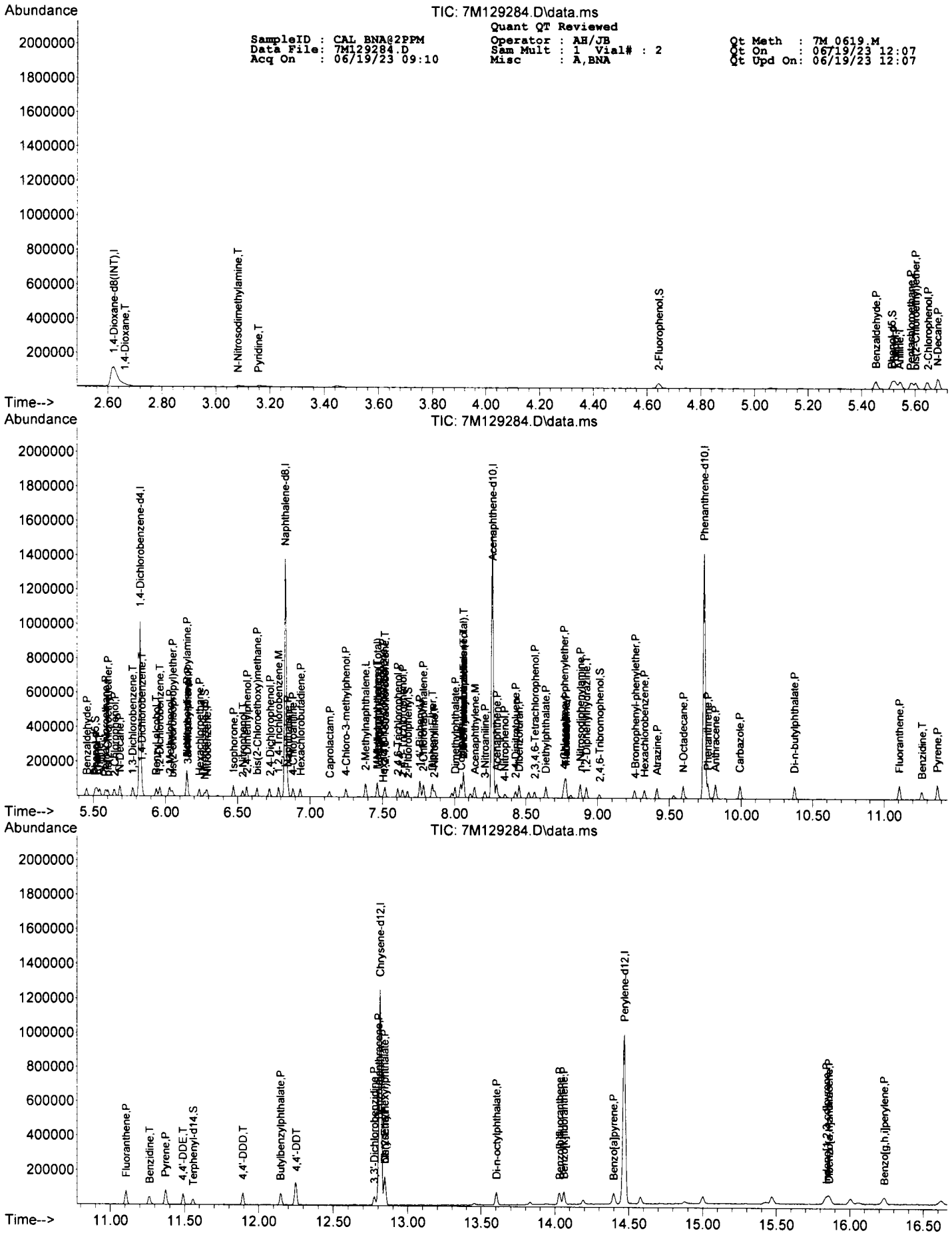
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@2PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129284.D Sam Mult : 1 Vial# : 2 Qt On : 06/19/23 12:07
Acq On : 06/19/23 09:10 Misc : A,BNA Qt Upd On: 06/19/23 12:07

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.216	138	6057	2.3589	ng	85
67)	2,4-Dinitrophenol	0.000		0	N.D. d		
68)	Dibenzofuran	8.451	168	28640	2.0672	ng	89
69)	2,4-Dinitrotoluene	8.427	165	6539	1.8919	ng	64
70)	4-Nitrophenol	8.351	65	4222	1.8866	ng	94
71)	2,3,4,6-Tetrachlorophenol	8.563	232	4581	1.4760	ng	87
72)	Fluorene	8.780	166	23069	2.0284	ng	96
73)	4-Chlorophenyl-phenyle...	8.768	204	10631	1.7835	ng	85
74)	Diethylphthalate	8.639	149	22714	1.9691	ng	95
75)	4-Nitroaniline	8.780	138	6367	2.2502	ng	80
76)	Atrazine	9.415	200	6556	1.9072	ng	96
78)	4,6-Dinitro-2-methylph...	0.000		0	N.D. d		
79)	n-Nitrosodiphenylamine	8.880	169	19800	2.2136	ng	98
81)	1,2-Diphenylhydrazine	8.921	77	26398	2.3612	ng	84
82)	4-Bromophenyl-phenylether	9.262	248	5579	1.7782	ng	89
83)	Hexachlorobenzene	9.326	284	5987	1.8630	ng	72
84)	N-Octadecane	9.597	57	11843	2.8941	ng	74
85)	Pentachlorophenol	0.000		0	N.D. d		
86)	Phenanthrene	9.767	178	32872	2.2709	ng	98
87)	Anthracene	9.820	178	32517	2.1996	ng	99
88)	Carbazole	9.990	167	31999	2.3532	ng	98
89)	Di-n-butylphthalate	10.372	149	38277	2.1704	ng	98
90)	Fluoranthene	11.107	202	33139	1.9280	ng	93
92)	Pyrene	11.371	202	34722	2.1387	ng	94
93)	Benzidine	11.265	184	21197	2.5811	ng	94
95)	4,4'-DDE	11.489	246	6829	1.8507	ng	94
96)	4,4'-DDD	11.894	235	12793	1.8879	ng	97
97)	Butylbenzylphthalate	12.147	149	16723	2.3018	ng	80
98)	4,4'-DDT	12.252	235	9653	1.8814	ng	92
99)	3,3'-Dichlorobenzidine	12.775	252	11422	2.1938	ng	96
100)	Benzo[a]anthracene	12.805	228	31338	2.0657	ng	98
101)	Chrysene	12.846	228	28186	2.0306	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.846	149	22909	2.4705	ng	93
104)	Di-n-octylphthalate	13.604	149	40078	2.3761	ng	99
105)	Benzo[b]fluoranthene	14.033	252	26997	1.8281	ng	96
106)	Benzo[k]fluoranthene	14.062	252	27707m	2.0904	ng	
107)	Benzo[a]pyrene	14.397	252	23557	1.8979	ng	99
108)	Indeno[1,2,3-cd]pyrene	15.842	276	27378	1.8617	ng	94
109)	Dibenzo[a,h]anthracene	15.860	278	23269	1.9094	ng	94
110)	Benzo[g,h,i]perylene	16.236	276	22877	1.9589	ng	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 7M129284.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@2PPM
Data File: 7M129284.D
Acq On : 06/19/23 09:10
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 7M_0619.M
Qt On : 06/19/23 12:07
Qt Upd On: 06/19/23 12:07
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Isophorone,P
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Methylnaphthalene,L
Dimethylphthalate,P
Acenaphthylene,M
3-Nitroaniline,P
4-Nitrophenol,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
N-Octadecane,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Chrysene-d12,I
Perylene-d12,I
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Benzo[g,h,i]perylene,P

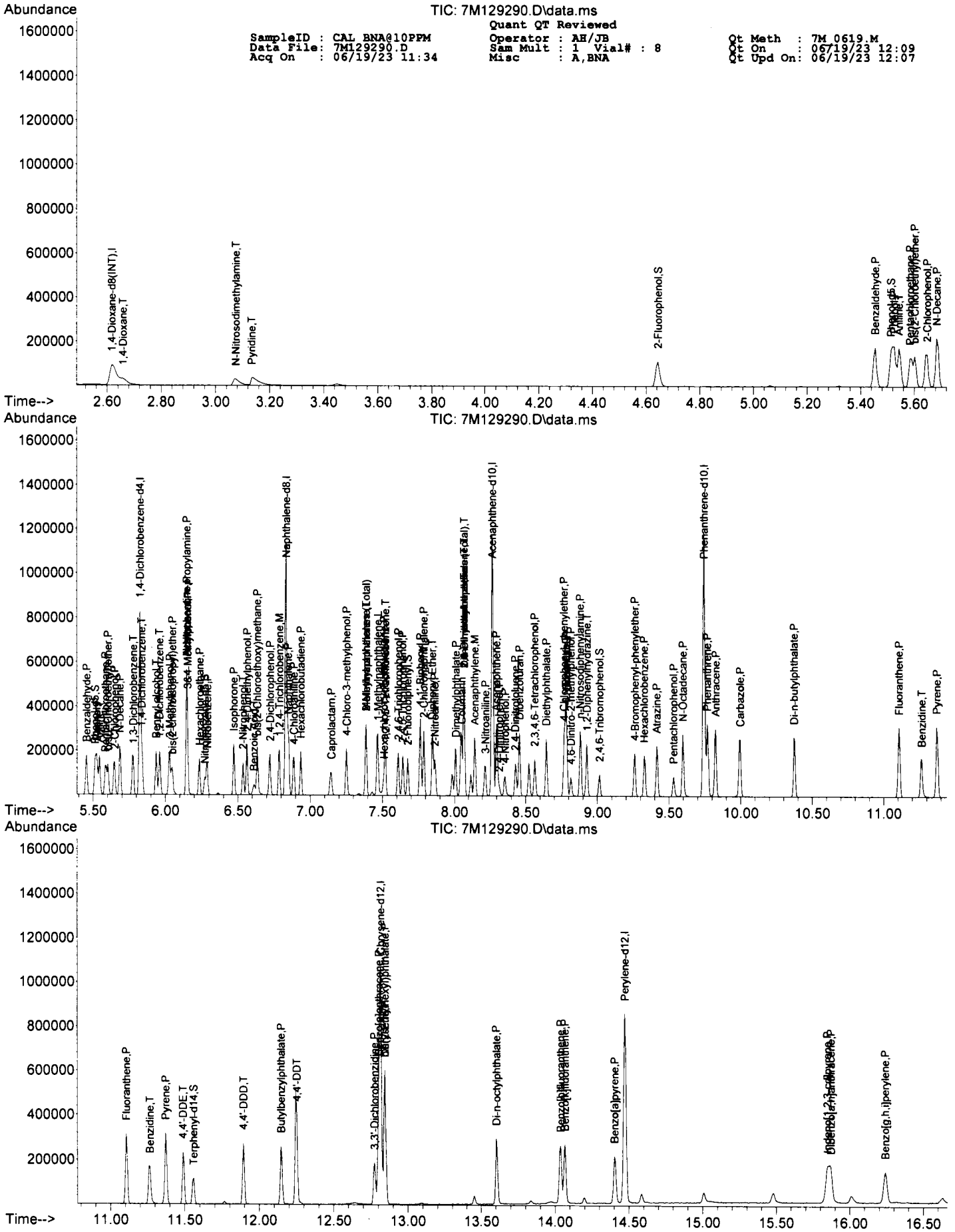
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@10PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129290.D Sam Mult : 1 Vial# : 8 Qt On : 06/19/23 12:09
Acq On : 06/19/23 11:34 Misc : A,BNA Qt Upd On: 06/19/23 12:07

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.222	138	23328	11.2955	ng	74
67)	2,4-Dinitrophenol	8.316	184	6497	6.6048	ng	47
68)	Dibenzofuran	8.457	168	107839	9.6774	ng	83
69)	2,4-Dinitrotoluene	8.428	165	26049	9.3700	ng	68
70)	4-Nitrophenol	8.357	65	15131	8.4063	ng	87
71)	2,3,4,6-Tetrachlorophenol	8.563	232	18407	7.3734	ng	88
72)	Fluorene	8.780	166	87086	9.5202	ng	100
73)	4-Chlorophenyl-phenyle...	8.768	204	38946	8.1235	ng	87
74)	Diethylphthalate	8.645	149	84029	9.0569	ng	98
75)	4-Nitroaniline	8.786	138	23970	10.5321	ng	76
76)	Atrazine	9.415	200	24938	9.0194	ng	99
78)	4,6-Dinitro-2-methylph...	8.815	198	11535	8.5050	ng	57
79)	n-Nitrosodiphenylamine	8.880	169	74295	10.1809	ng	97
81)	1,2-Diphenylhydrazine	8.927	77	89351	9.7960	ng	85
82)	4-Bromophenyl-phenylether	9.262	248	21611	8.4427	ng	85
83)	Hexachlorobenzene	9.327	284	22738	8.6727	ng	68
84)	N-Octadecane	9.597	57	44540	13.3410	ng	77
85)	Pentachlorophenol	9.532	266	9807	5.8479	ng	96
86)	Phenanthrene	9.767	178	120799	10.2287	ng	98
87)	Anthracene	9.826	178	123307	10.2238	ng	99
88)	Carbazole	9.996	167	118348	10.6676	ng	98
89)	Di-n-butylphthalate	10.372	149	147332	10.2395	ng	97
90)	Fluoranthene	11.107	202	128033	9.1302	ng	95
92)	Pyrene	11.371	202	131645	9.8093	ng	93
93)	Benzidine	11.266	184	80071	11.7948	ng	88
95)	4,4'-DDE	11.489	246	25472	8.3507	ng	97
96)	4,4'-DDD	11.894	235	49080	8.7618	ng	93
97)	Butylbenzylphthalate	12.147	149	63764	10.6173	ng	77
98)	4,4'-DDT	12.253	235	37747	8.8999	ng	94
99)	3,3'-Dichlorobenzidine	12.776	252	42786	9.9414	ng	96
100)	Benzo[a]anthracene	12.805	228	114245	9.1101	ng	99
101)	Chrysene	12.846	228	107133	9.3368	ng	95
102)	bis(2-Ethylhexyl)phtha...	12.846	149	86483	11.2825	ng	92
104)	Di-n-octylphthalate	13.604	149	150085	10.6591	ng	99
105)	Benzo[b]fluoranthene	14.039	252	105690m	8.5732	ng	
106)	Benzo[k]fluoranthene	14.068	252	105368m	9.5231	ng	
107)	Benzo[a]pyrene	14.403	252	92207	8.8989	ng	97
108)	Indeno[1,2,3-cd]pyrene	15.849	276	104959	8.5495	ng	91
109)	Dibenzo[a,h]anthracene	15.872	278	88127	8.6628	ng	93
110)	Benzo[g,h,i]perylene	16.242	276	86584	8.8813	ng	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 7M129290.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@10PPM
Data File: 7M129290.D
Acq On : 06/19/23 11:34
Operator : AH/JB
Sam Mult : 1 Vial# : 8
Misc : A,BNA
Qt Meth : 7M_0619.M
Qt On : 06/19/23 12:09
Qt Upd On: 06/19/23 12:07
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Chrysene-d12,I
Perylene-d12,I
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Benzo[g,h,i]perylene,P

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@20PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129289.D Sam Mult : 1 Vial# : 7 Qt On : 06/19/23 12:08
Acq On : 06/19/23 11:10 Misc : A,BNA Qt Upd On: 06/19/23 12:07

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.617	96	73993	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.825	152	122688	40.00	ng	0.00
31) Naphthalene-d8	6.835	136	504615	40.00	ng	0.00
50) Acenaphthene-d10	8.275	164	293451	40.00	ng	0.00
77) Phenanthrene-d10	9.744	188	502170	40.00	ng	0.00
91) Chrysene-d12	12.822	240	417689	40.00	ng	0.00
103) Perylene-d12	14.479	264	411292	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.644	112	92580	20.28	ng	0.00
Spiked Amount 100.000			Recovery = 20.28%			
16) Phenol-d5	5.513	99	115444	20.13	ng	-0.01
Spiked Amount 100.000			Recovery = 20.13%			
32) Nitrobenzene-d5	6.271	128	22985	10.27	ng	0.00
Spiked Amount 50.000			Recovery = 20.54%			
55) 2-Fluorobiphenyl	7.675	172	102028	9.95	ng	0.00
Spiked Amount 50.000			Recovery = 19.90%			
80) 2,4,6-Tribromophenol	9.021	330	22527	19.84	ng	0.00
Spiked Amount 100.000			Recovery = 19.84%			
94) Terphenyl-d14	11.559	244	89720	10.50	ng	0.00
Spiked Amount 50.000			Recovery = 21.00%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.658	88	38854	20.6683	ng	98
9) Pyridine	3.128	79	73559	18.7354	ng	71
10) N-Nitrosodimethylamine	3.069	74	57228	18.5397	ng	75
12) Benzaldehyde	5.455	77	80557	18.9159	ng	74
13) Aniline	5.543	93	141377	20.0063	ng	89
14) Pentachloroethane	5.584	117	34512	20.3631	ng	84
15) bis(2-Chloroethyl)ether	5.601	93	94382	19.5839	ng	79
17) Phenol	5.525	94	134092	20.3566	ng	86
18) 2-Chlorophenol	5.648	128	97680	20.8749	ng	79
19) N-Decane	5.684	57	95581	24.8745	ng	91
20) 1,3-Dichlorobenzene	5.778	146	101753	19.4321	ng	98
22) 1,4-Dichlorobenzene	5.836	146	99667	20.7889	ng	97
23) 1,2-Dichlorobenzene	5.960	146	95709	21.1982	ng	97
24) Benzyl alcohol	5.936	108	67138	22.0514	ng	72
25) bis(2-chloroisopropyl)...	6.048	45	113971	29.6432	ng	98
26) 2-Methylphenol	6.030	108	90830	21.8901	ng	99
27) Acetophenone	6.154	105	137400	23.1476	ng	73
28) Hexachloroethane	6.236	117	40340	20.7879	ng	85
29) N-Nitroso-di-n-propyla...	6.148	70	67490	20.1218	ng	82
30) 3&4-Methylphenol	6.154	108	92664	21.4929	ng	100
33) Nitrobenzene	6.289	77	99932	18.3013	ng	76
34) Isophorone	6.477	82	188205	18.1784	ng	85
35) 2-Nitrophenol	6.536	139	53629	21.0725	ng	92
36) 2,4-Dimethylphenol	6.565	107	97258	18.4278	ng	93
37) Benzoic Acid	6.636	105	72723	15.8058	ng	44
38) bis(2-Chloroethoxy)met...	6.636	93	112903	19.4153	ng	96
39) 2,4-Dichlorophenol	6.724	162	80493	19.3559	ng	88
40) 1,2,4-Trichlorobenzene	6.788	180	81401	17.6228	ng	98
41) Naphthalene	6.853	128	274002	19.9839	ng	99
42) 4-Chloroaniline	6.888	127	116281m	22.3111	ng	
43) Hexachlorobutadiene	6.935	225	40590	14.0479	ng	95
44) Caprolactam	7.158	113	34817	22.0094	ng	70
45) 4-Chloro-3-methylphenol	7.258	107	87307	19.2600	ng	83
46) 2-Methylnaphthalene	7.388	142	187027	19.7199	ng	99
47) 1-Methylnaphthalene	7.470	142	173778	19.8335	ng	91
48) Methylnaphthalenes (To...	7.388	142	361304m	39.5340	ng	
49) 1,1'-Biphenyl	7.764	154	231348	19.6528	ng	95
51) 1,2,4,5-Tetrachloroben...	7.523	216	79040	17.9403	ng	99
52) Hexachlorocyclopentadiene	7.511	237	17955	7.1581	ng	96
53) 2,4,6-Trichlorophenol	7.611	196	56185	17.8028	ng	97
54) 2,4,5-Trichlorophenol	7.646	196	59733	18.1357	ng	99
56) 2-Chloronaphthalene	7.787	162	176195	20.4168	ng	94
57) 1,4-Dimethylnaphthalene	8.069	156	142207	19.9884	ng	92
58) Dimethylnaphthalenes (...	8.069	156	142207	19.9884	ng	92
59) Diphenyl Ether	7.852	170	127148	21.1202	ng	76
60) 2-Nitroaniline	7.869	65	66684	21.3747	ng	49
61) Coumarin	8.052	146	76033	21.7499	ng	86
62) Acenaphthylene	8.151	152	248841	20.4483	ng	99
63) Dimethylphthalate	8.010	163	205599	19.9543	ng	99
64) 2,6-Dinitrotoluene	8.069	165	46887	20.3167	ng	70
65) Acenaphthene	8.304	153	168881	20.0693	ng	96

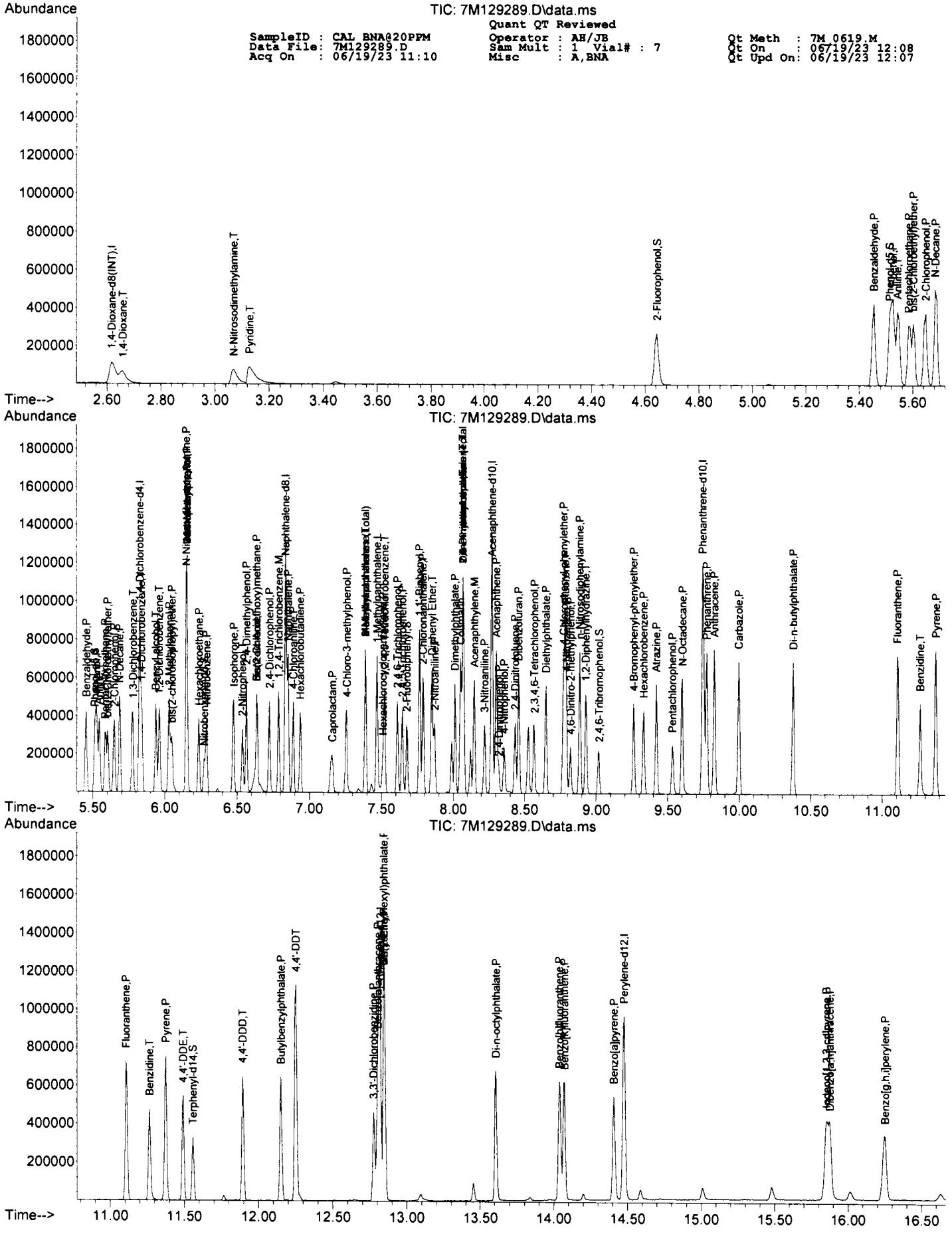
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@20PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129289.D Sam Mult : 1 Vial# : 7 Qt On : 06/19/23 12:08
Acq On : 06/19/23 11:10 Misc : A,BNA Qt Upd On: 06/19/23 12:07

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.222	138	55016	23.9173	ng	79
67)	2,4-Dinitrophenol	8.322	184	21994	19.6189	ng	35
68)	Dibenzofuran	8.457	168	249627	20.1127	ng	87
69)	2,4-Dinitrotoluene	8.433	165	65210	21.0600	ng	64
70)	4-Nitrophenol	8.357	65	35892	17.9031	ng	88
71)	2,3,4,6-Tetrachlorophenol	8.569	232	45471	16.3537	ng	88
72)	Fluorene	8.786	166	203469	19.9707	ng	99
73)	4-Chlorophenyl-phenyle...	8.774	204	95523	17.8890	ng	84
74)	Diethylphthalate	8.651	149	201968	19.5446	ng	96
75)	4-Nitroaniline	8.792	138	57595	22.7210	ng	76
76)	Atrazine	9.421	200	61530	19.9802	ng	98
78)	4,6-Dinitro-2-methylph...	8.821	198	32186	21.1631	ng	56
79)	n-Nitrosodiphenylamine	8.886	169	177568	21.6995	ng	98
81)	1,2-Diphenylhydrazine	8.927	77	207828	20.3193	ng	86
82)	4-Bromophenyl-phenylether	9.262	248	52792	18.3922	ng	91
83)	Hexachlorobenzene	9.332	284	55576	18.9037	ng	71
84)	N-Octadecane	9.603	57	109426	29.2292	ng	76
85)	Pentachlorophenol	9.532	266	28464	15.1363	ng	92
86)	Phenanthrene	9.773	178	284748	21.5017	ng	99
87)	Anthracene	9.826	178	294948	21.8085	ng	99
88)	Carbazole	9.996	167	289108	23.2393	ng	97
89)	Di-n-butylphthalate	10.378	149	358849	22.2409	ng	97
90)	Fluoranthene	11.107	202	315190	20.0441	ng	97
92)	Pyrene	11.377	202	324535	21.4482	ng	89
93)	Benzidine	11.265	184	193642	25.2993	ng	88
95)	4,4'-DDE	11.495	246	64746	18.8265	ng	94
96)	4,4'-DDD	11.894	235	122021	19.3205	ng	94
97)	Butylbenzylphthalate	12.153	149	159168	23.5066	ng	74
98)	4,4'-DDT	12.253	235	94913	19.8482	ng	95
99)	3,3'-Dichlorobenzidine	12.775	252	104205	21.4748	ng	97
100)	Benzo[a]anthracene	12.805	228	279249	19.7502	ng	98
101)	Chrysene	12.846	228	255842	19.7762	ng	97
102)	bis(2-Ethylhexyl)phtha...	12.846	149	206619	23.9078	ng	93
104)	Di-n-octylphthalate	13.610	149	377785	22.9797	ng	100
105)	Benzo[b]fluoranthene	14.039	252	268904m	18.6820	ng	
106)	Benzo[k]fluoranthene	14.074	252	258908	20.0416	ng	94
107)	Benzo[a]pyrene	14.409	252	233507	19.3014	ng	94
108)	Indeno[1,2,3-cd]pyrene	15.854	276	269446	18.7978	ng	88
109)	Dibenzo[a,h]anthracene	15.878	278	225561	18.9902	ng	92
110)	Benzo[g,h,i]perylene	16.254	276	219291	19.2652	ng	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 7M129289.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@20PPM
Data File: 7M129289.D
Acq On : 06/19/23 11:10
Operator : AH/JB
Sam Mult : 1 Vial# : 7
Misc : A,BNA
Qt Meth : 7M_0619.M
Qt On : 06/19/23 12:08
Qt Upd On: 06/19/23 12:07
1.4-Dioxane-d8(INT),I
1.4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->
Abundance
TIC: 7M129289.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
2-Nitrophenol,P
2,4-Dichlorophenol,P
1,2,4-Trichlorobenzene,M
Naphthalene-d8,I
Hexachlorobutadiene,P
2-Fluorobiphenyl,S
2-Chloronaphthalene,P
Acenaphthylene,M
Acenaphthene,P
Acenaphthene-d10,I
Dibenzofuran,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4,6-Dinitro-2-methylphenol,P
1,2-Diphenylhydrazine,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene-d10,I
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->
Abundance
TIC: 7M129289.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Perylene-d12,I
Benzo[a]pyrene,P
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@80PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129293.D Sam Mult : 1 Vial# : 11 Qt On : 06/19/23 13:26
Acq On : 06/19/23 13:08 Misc : A,BNA Qt Upd On: 06/19/23 12:44

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.616	96	75624	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.825	152	119899	40.00	ng	0.00
31) Naphthalene-d8	6.835	136	489980	40.00	ng	0.00
50) Acenaphthene-d10	8.275	164	300270	40.00	ng	0.00
77) Phenanthrene-d10	9.749	188	517047	40.00	ng	0.00
91) Chrysene-d12	12.822	240	409943	40.00	ng	0.00
103) Perylene-d12	14.479	264	418743	40.00	ng	-0.01
System Monitoring Compounds						
11) 2-Fluorophenol	4.644	112	381377	79.19	ng	0.00
Spiked Amount 100.000			Recovery = 79.19%			
16) Phenol-d5	5.525	99	445452	78.57	ng	0.00
Spiked Amount 100.000			Recovery = 78.57%			
32) Nitrobenzene-d5	6.277	128	93215	39.11	ng	0.00
Spiked Amount 50.000			Recovery = 78.22%			
55) 2-Fluorobiphenyl	7.681	172	394224	38.11	ng	0.00
Spiked Amount 50.000			Recovery = 76.22%			
80) 2,4,6-Tribromophenol	9.021	330	96476	79.00	ng	0.00
Spiked Amount 100.000			Recovery = 79.00%			
94) Terphenyl-d14	11.559	244	369337	39.21	ng	0.00
Spiked Amount 50.000			Recovery = 78.42%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.658	88	157910	76.8268	ng	98
9) Pyridine	3.116	79	312077	80.6903	ng	71
10) N-Nitrosodimethylamine	3.069	74	240826	78.3536	ng	75
12) Benzaldehyde	5.454	77	300653	75.5561	ng	75
13) Aniline	5.548	93	520876	76.0102	ng	91
14) Pentachloroethane	5.590	117	130820	74.7995	ng	85
15) bis(2-Chloroethyl)ether	5.607	93	348499	74.1231	ng	81
17) Phenol	5.537	94	504710	78.2097	ng	91
18) 2-Chlorophenol	5.654	128	374454	77.0067	ng	78
19) N-Decane	5.689	57	339447	73.5774	ng	90
20) 1,3-Dichlorobenzene	5.778	146	372578	74.5963	ng	97
22) 1,4-Dichlorobenzene	5.842	146	369782	76.8073	ng	98
23) 1,2-Dichlorobenzene	5.966	146	352849	77.0303	ng	99
24) Benzyl alcohol	5.942	108	252113	77.5705	ng	77
25) bis(2-chloroisopropyl)...	6.048	45	410126	76.8956	ng	94
26) 2-Methylphenol	6.036	108	339230	78.7284	ng	96
27) Acetophenone	6.159	105	464406	73.8675	ng	74
28) Hexachloroethane	6.236	117	151581	76.6530	ng	85
29) N-Nitroso-di-n-propyla...	6.159	70	225566	72.9032	ng	83
30) 3&4-Methylphenol	6.159	108	313093	74.2098	ng	97
33) Nitrobenzene	6.295	77	378087	76.4915	ng	76
34) Isophorone	6.483	82	730321	77.3228	ng	86
35) 2-Nitrophenol	6.541	139	215059	80.1208	ng	87
36) 2,4-Dimethylphenol	6.571	107	368718	77.5473	ng	95
37) Benzoic Acid	6.676	105	331020	78.5433	ng	45
38) bis(2-Chloroethoxy)met...	6.641	93	422865	76.3867	ng	96
39) 2,4-Dichlorophenol	6.729	162	303103	78.6763	ng	87
40) 1,2,4-Trichlorobenzene	6.788	180	306078	76.7935	ng	98
41) Naphthalene	6.853	128	1034889	75.7867	ng	98
42) 4-Chloroaniline	6.888	127	358881m	68.4413	ng	
43) Hexachlorobutadiene	6.941	225	159635	77.8652	ng	97
44) Caprolactam	7.199	113	140830	79.2851	ng	69
45) 4-Chloro-3-methylphenol	7.264	107	340330	79.0701	ng	81
46) 2-Methylnaphthalene	7.387	142	692757	77.4903	ng	100
47) 1-Methylnaphthalene	7.470	142	642195	76.7980	ng	92
48) Methylnaphthalenes (To...	7.470	142	1338425m	154.6261	ng	
49) 1,1'-Biphenyl	7.769	154	842560	75.9358	ng	94
51) 1,2,4,5-Tetrachloroben...	7.523	216	305974	76.1165	ng	98
52) Hexachlorocyclopentadiene	7.511	237	98058	82.4668	ng	99
53) 2,4,6-Trichlorophenol	7.617	196	222677	75.0505	ng	100
54) 2,4,5-Trichlorophenol	7.652	196	240113	76.9628	ng	99
56) 2-Chloronaphthalene	7.793	162	666826	75.2793	ng	91
57) 1,4-Dimethylnaphthalene	8.075	156	499990	72.8758	ng	88
58) Dimethylnaphthalenes (...	8.075	156	499990	72.8758	ng	88
59) Diphenyl Ether	7.852	170	482383	75.4969	ng	77
60) 2-Nitroaniline	7.875	65	245077	74.3321	ng	47
61) Coumarin	8.063	146	272443	75.1713	ng	74
62) Acenaphthylene	8.157	152	947822	75.9419	ng	99
63) Dimethylphthalate	8.022	163	780641	75.2069	ng	98
64) 2,6-Dinitrotoluene	8.081	165	162950	71.9846	ng	59
65) Acenaphthene	8.304	153	640088	75.2530	ng	99

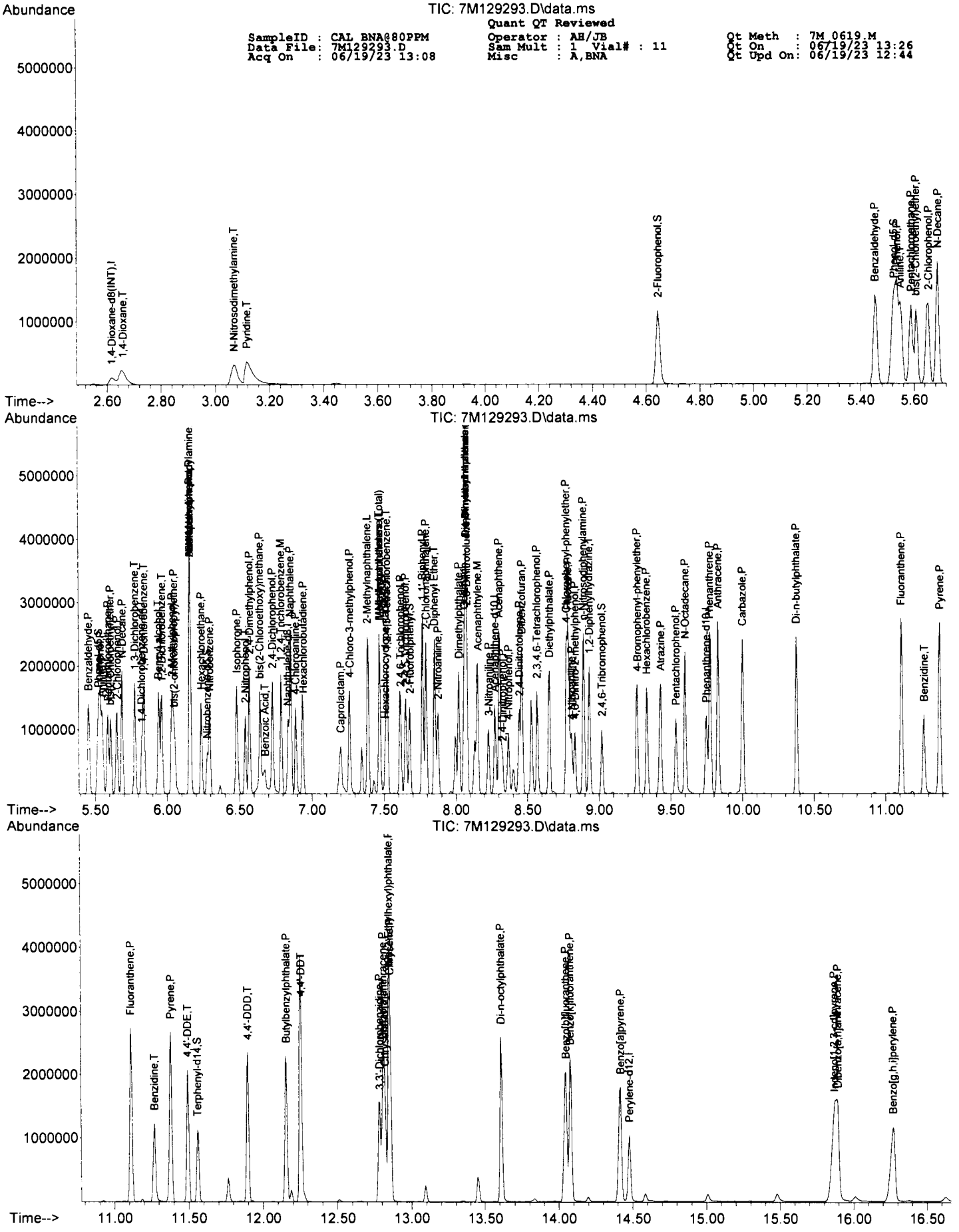
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@80PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129293.D Sam Mult : 1 Vial# : 11 Qt On : 06/19/23 13:26
Acq On : 06/19/23 13:08 Misc : A,BNA Qt Upd On: 06/19/23 12:44

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.233	138	185006	68.3024	ng	75
67)	2,4-Dinitrophenol	8.328	184	106241	74.2375	ng	34
68)	Dibenzofuran	8.463	168	951420	75.1217	ng	85
69)	2,4-Dinitrotoluene	8.445	165	261721	78.9997	ng	59
70)	4-Nitrophenol	8.369	65	166333	81.5947	ng	86
71)	2,3,4,6-Tetrachlorophenol	8.568	232	189238	78.9958	ng	86
72)	Fluorene	8.786	166	769357	75.7204	ng	98
73)	4-Chlorophenyl-phenyle...	8.774	204	376503	77.6709	ng	84
74)	Diethylphthalate	8.657	149	778871	76.6167	ng	96
75)	4-Nitroaniline	8.809	138	224560	76.4387	ng	75
76)	Atrazine	9.432	200	244523	78.0364	ng	97
78)	4,6-Dinitro-2-methylph...	8.833	198	144700	80.7775	ng	64
79)	n-Nitrosodiphenylamine	8.892	169	684406	76.4092	ng	99
81)	1,2-Diphenylhydrazine	8.933	77	850866	77.2128	ng	82
82)	4-Bromophenyl-phenylether	9.268	248	221151	79.1520	ng	84
83)	Hexachlorobenzene	9.332	284	232037	78.9711	ng	69
84)	N-Octadecane	9.603	57	390581	75.0413	ng	74
85)	Pentachlorophenol	9.538	266	140503	83.2954	ng	97
86)	Phenanthrene	9.773	178	1115515	77.2605	ng	99
87)	Anthracene	9.832	178	1132990	76.9916	ng	99
88)	Carbazole	10.002	167	1114507	77.2946	ng	97
89)	Di-n-butylphthalate	10.378	149	1389134	77.7265	ng	98
90)	Fluoranthene	11.113	202	1262305	79.5233	ng	92
92)	Pyrene	11.383	202	1252590	77.5283	ng	88
93)	Benzidine	11.271	184	542520	58.4420	ng	87
95)	4,4'-DDE	11.494	246	255284	76.9705	ng	95
96)	4,4'-DDD	11.900	235	480775	78.5168	ng	94
97)	Butylbenzylphthalate	12.158	149	616143	77.4689	ng	71
98)	4,4'-DDT	12.258	235	343046	75.3664	ng	98
99)	3,3'-Dichlorobenzidine	12.787	252	380356	72.5421	ng	96
100)	Benzo[a]anthracene	12.811	228	1107254	77.5892	ng	99
101)	Chrysene	12.858	228	946608	75.8462	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.852	149	746934	74.5912	ng	91
104)	Di-n-octylphthalate	13.610	149	1460764	77.1719	ng	99
105)	Benzo[b]fluoranthene	14.050	252	1086514	76.7600	ng	94
106)	Benzo[k]fluoranthene	14.080	252	1028171	78.7737	ng	95
107)	Benzo[a]pyrene	14.420	252	957346	78.1694	ng	92
108)	Indeno[1,2,3-cd]pyrene	15.872	276	1127328	79.6036	ng	86
109)	Dibenzo[a,h]anthracene	15.895	278	925288	78.7098	ng	89
110)	Benzo[g,h,i]perylene	16.271	276	916172	78.2832	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 7M129293.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@80PPM
Data File: 7M129293.D
Acq On : 06/19/23 13:08
Operator : AH/JB
Sam Mult : 1 Vial# : 11
Misc : A,BNA
Qt Meth : 7M_0619.M
Qt On : 06/19/23 13:26
Qt Upd On: 06/19/23 12:44
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->
Abundance
TIC: 7M129293.D\data.ms
Benzaldehyde,P
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Methylnaphthalene,L
Benzoic Acid,T
Acenaphthylene,M
Diphenyl Ether,I
2-Nitroaniline,P
3-Nitroaniline,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->
Abundance
TIC: 7M129293.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Perylene-d12,I
Benzo(a)pyrene,P
Benzo(g,h,i)perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@120PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129287.D Sam Mult : 1 Vial# : 5 Qt On : 06/19/23 12:08
Acq On : 06/19/23 10:23 Misc : A,BNA Qt Upd On: 06/19/23 12:07

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.617	96	58375	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.825	152	92509	40.00	ng	0.00
31) Naphthalene-d8	6.841	136	370507	40.00	ng	0.00
50) Acenaphthene-d10	8.281	164	218963	40.00	ng	0.00
77) Phenanthrene-d10	9.750	188	382412	40.00	ng	0.00
91) Chrysene-d12	12.828	240	292670	40.00	ng	0.00
103) Perylene-d12	14.491	264	304562	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.650	112	415298	115.28	ng	0.00
Spiked Amount 100.000			Recovery = 115.28%			
16) Phenol-d5	5.525	99	476727	105.38	ng	0.00
Spiked Amount 100.000			Recovery = 105.38%			
32) Nitrobenzene-d5	6.277	128	99325	60.45	ng	0.00
Spiked Amount 50.000			Recovery = 120.90%			
55) 2-Fluorobiphenyl	7.681	172	415464	54.29	ng	0.00
Spiked Amount 50.000			Recovery = 108.58%			
80) 2,4,6-Tribromophenol	9.027	330	101509	117.38	ng	0.00
Spiked Amount 100.000			Recovery = 117.38%			
94) Terphenyl-d14	11.565	244	382211	63.86	ng	0.00
Spiked Amount 50.000			Recovery = 127.72%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.652	88	177780	119.8716	ng	99
9) Pyridine	3.116	79	345429	111.5194	ng	71
10) N-Nitrosodimethylamine	3.069	74	265470	109.0116	ng	73
12) Benzaldehyde	5.455	77	337944	100.5846	ng	76
13) Aniline	5.549	93	572601	102.7077	ng	91
14) Pentachloroethane	5.590	117	145051	108.4822	ng	86
15) bis(2-Chloroethyl)ether	5.613	93	376972	99.1480	ng	76
17) Phenol	5.537	94	537568	103.4427	ng	92
18) 2-Chlorophenol	5.654	128	404226	109.4981	ng	80
19) N-Decane	5.690	57	372855	122.9946	ng	90
20) 1,3-Dichlorobenzene	5.778	146	410314	99.3238	ng	98
22) 1,4-Dichlorobenzene	5.842	146	406552	112.4642	ng	96
23) 1,2-Dichlorobenzene	5.966	146	383946	112.7808	ng	98
24) Benzyl alcohol	5.948	108	274788	119.6970	ng	70
25) bis(2-chloroisopropyl)...	6.048	45	436913	150.7105	ng	93
26) 2-Methylphenol	6.036	108	360324	115.1674	ng	97
27) Acetophenone	6.160	105	499866	111.6840	ng	73
28) Hexachloroethane	6.236	117	167118	114.2133	ng	83
29) N-Nitroso-di-n-propyla...	6.160	70	240284	95.0101	ng	82
30) 3&4-Methylphenol	6.160	108	334680	102.9512	ng	94
33) Nitrobenzene	6.295	77	404488	100.8898	ng	78
34) Isophorone	6.483	82	770982	101.4221	ng	88
35) 2-Nitrophenol	6.542	139	228207	122.1260	ng	90
36) 2,4-Dimethylphenol	6.571	107	387076	99.8866	ng	96
37) Benzoic Acid	6.677	105	360612	106.7452	ng	54
38) bis(2-Chloroethoxy)met...	6.647	93	451409	105.7239	ng	95
39) 2,4-Dichlorophenol	6.730	162	323904	106.0805	ng	90
40) 1,2,4-Trichlorobenzene	6.794	180	330443	97.4330	ng	98
41) Naphthalene	6.859	128	1083009	107.5778	ng	99
42) 4-Chloroaniline	6.894	127	432299m	112.9694	ng	
43) Hexachlorobutadiene	6.941	225	174139	82.0828	ng	97
44) Caprolactam	7.205	113	147555	127.0384	ng	71
45) 4-Chloro-3-methylphenol	7.264	107	359683	108.0663	ng	86
46) 2-Methylnaphthalene	7.393	142	736524	105.7673	ng	100
47) 1-Methylnaphthalene	7.476	142	684069	106.3331	ng	93
48) Methylnaphthalenes (To...	7.393	142	1420220m	211.6494	ng	
49) 1,1'-Biphenyl	7.769	154	897680	103.8592	ng	95
51) 1,2,4,5-Tetrachloroben...	7.529	216	320578	97.5173	ng	98
52) Hexachlorocyclopentadiene	7.517	237	117113	62.5726	ng	99
53) 2,4,6-Trichlorophenol	7.617	196	235452	99.9852	ng	99
54) 2,4,5-Trichlorophenol	7.652	196	253807	103.2735	ng	98
56) 2-Chloronaphthalene	7.799	162	705474	109.5572	ng	91
57) 1,4-Dimethylnaphthalene	8.081	156	523472	98.6086	ng	89
58) Dimethylnaphthalenes (...	8.081	156	523472	98.6086	ng	89
59) Diphenyl Ether	7.858	170	501677	111.6805	ng	76
60) 2-Nitroaniline	7.875	65	257173	110.4760	ng	57
61) Coumarin	8.069	146	283380	108.6400	ng	74
62) Acenaphthylene	8.157	152	987088	108.7068	ng	98
63) Dimethylphthalate	8.028	163	817167	106.2898	ng	98
64) 2,6-Dinitrotoluene	8.087	165	170892	99.2403	ng	55
65) Acenaphthene	8.310	153	674237	107.3813	ng	98

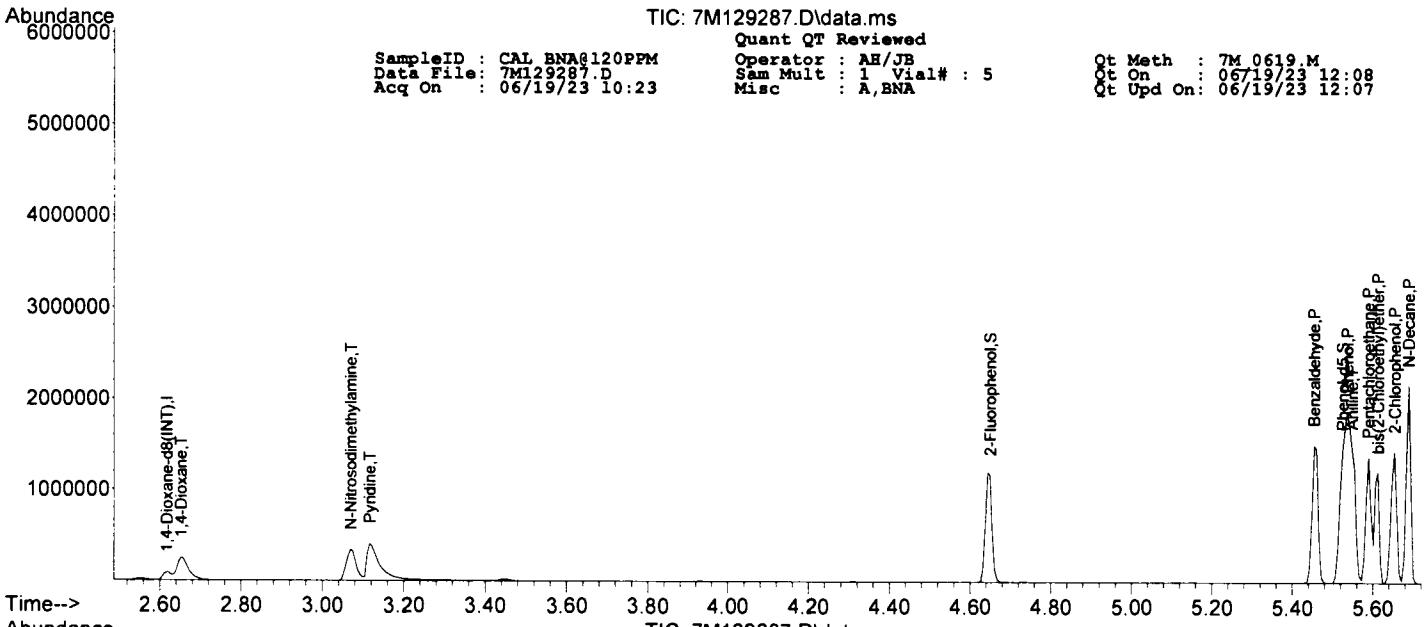
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@120PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129287.D Sam Mult : 1 Vial# : 5 Qt On : 06/19/23 12:08
Acq On : 06/19/23 10:23 Misc : A,BNA Qt Upd On: 06/19/23 12:07

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.240	138	215402	125.4981	ng	73
67)	2,4-Dinitrophenol	8.328	184	112830	115.5518	ng	44
68)	Dibenzofuran	8.469	168	991042	107.0128	ng	85
69)	2,4-Dinitrotoluene	8.445	165	276894	119.8455	ng	65
70)	4-Nitrophenol	8.375	65	170804	114.1808	ng	83
71)	2,3,4,6-Tetrachlorophenol	8.574	232	197940	95.4072	ng	86
72)	Fluorene	8.792	166	797958	104.9639	ng	99
73)	4-Chlorophenyl-phenyle...	8.780	204	392258	98.4495	ng	82
74)	Diethylphthalate	8.657	149	813628	105.5199	ng	97
75)	4-Nitroaniline	8.815	138	236599	125.0894	ng	75
76)	Atrazine	9.438	200	254310	110.6726	ng	97
78)	4,6-Dinitro-2-methylph...	8.839	198	153845	132.8357	ng	67
79)	n-Nitrosodiphenylamine	8.898	169	718024	115.2238	ng	97
81)	1,2-Diphenylhydrazine	8.939	77	885838	113.7310	ng	80
82)	4-Bromophenyl-phenylether	9.268	248	233772	106.9494	ng	88
83)	Hexachlorobenzene	9.338	284	242557	108.3412	ng	66
84)	N-Octadecane	9.603	57	412824	144.8040	ng	77
85)	Pentachlorophenol	9.544	266	146042	101.9811	ng	97
86)	Phenanthrene	9.779	178	1151770	114.2083	ng	100
87)	Anthracene	9.838	178	1177631	114.3427	ng	99
88)	Carbazole	10.008	167	1155337	121.9527	ng	97
89)	Di-n-butylphthalate	10.384	149	1436617	116.9230	ng	98
90)	Fluoranthene	11.119	202	1292738	107.9553	ng	91
92)	Pyrene	11.383	202	1294981	122.1428	ng	89
93)	Benzidine	11.271	184	723794	134.9583	ng	88
95)	4,4'-DDE	11.501	246	269196	111.7121	ng	95
96)	4,4'-DDD	11.900	235	493883	111.6045	ng	94
97)	Butylbenzylphthalate	12.159	149	643621	135.6559	ng	72
98)	4,4'-DDT	12.258	235	363033	108.3471	ng	97
99)	3,3'-Dichlorobenzidine	12.787	252	426116	125.3265	ng	97
100)	Benzo[a]anthracene	12.817	228	1145975	115.6722	ng	98
101)	Chrysene	12.864	228	975846	107.6535	ng	98
102)	bis(2-Ethylhexyl)phtha...	12.852	149	788340	130.1842	ng	93
104)	Di-n-octylphthalate	13.622	149	1521104	124.9488	ng	100
105)	Benzo[b]fluoranthene	14.062	252	1123602	105.4178	ng	94
106)	Benzo[k]fluoranthene	14.092	252	1066513m	111.4878	ng	
107)	Benzo[a]pyrene	14.432	252	1006419	112.3419	ng	92
108)	Indeno[1,2,3-cd]pyrene	15.884	276	1157302	109.0326	ng	86
109)	Dibenzo[a,h]anthracene	15.907	278	949140	107.9123	ng	90
110)	Benzo[g,h,i]perylene	16.289	276	957653	113.6149	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed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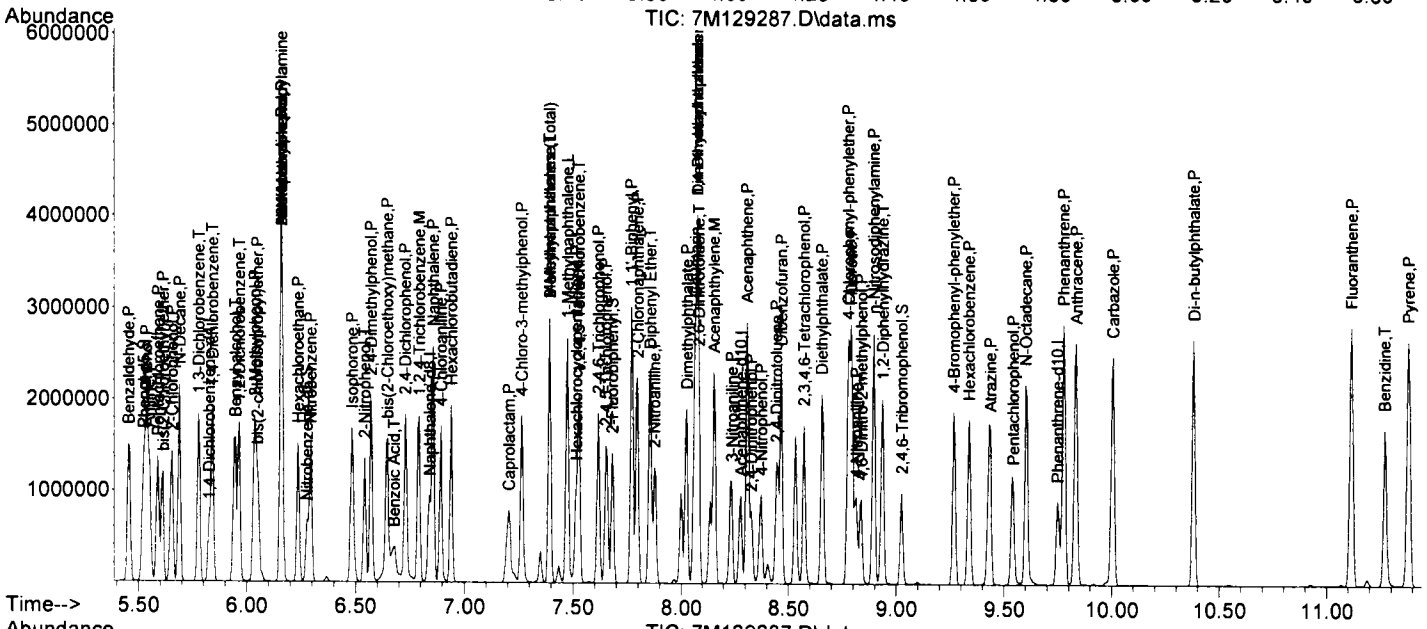
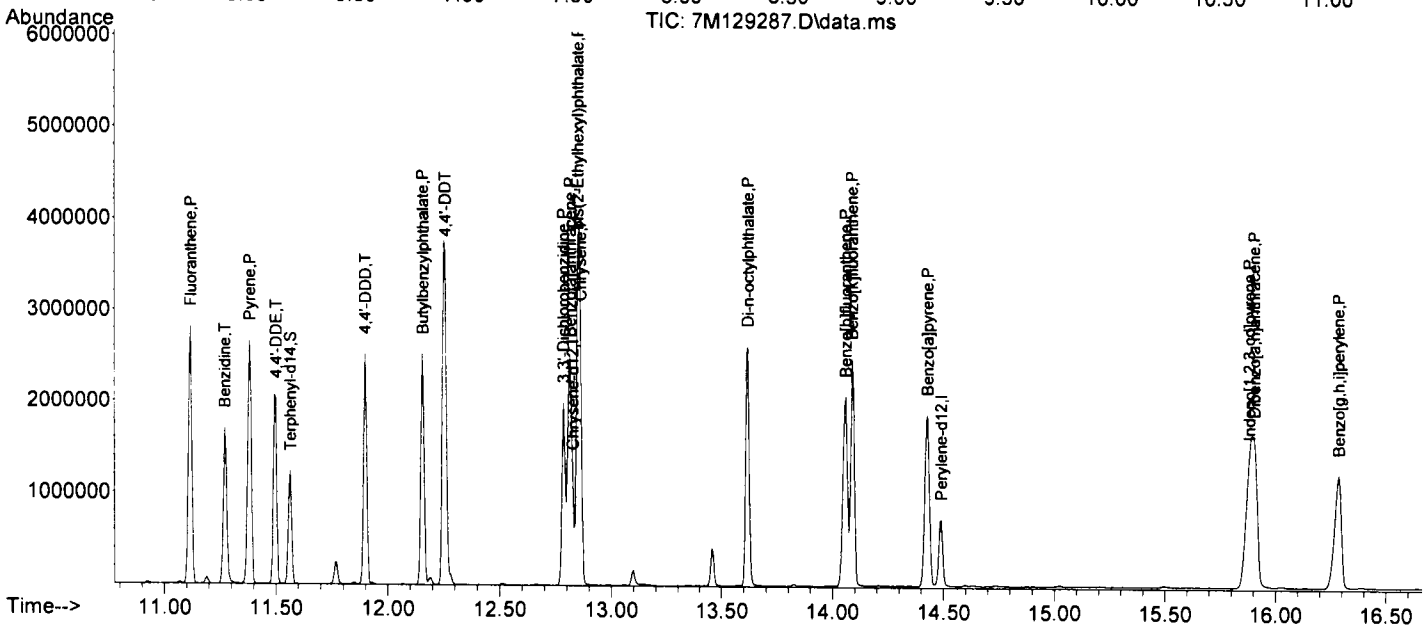
TIC: 7M129287.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@120PPM
Data File: 7M129287.D
Acq On : 06/19/23 10:23
Operator : AH/JB
Sam Mult : 1 Vial# : 5
Misc : A,BNA
Qt Meth : 7M_0619.M
Qt On : 06/19/23 12:08
Qt Upd On: 06/19/23 12:07
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->


Abundance
TIC: 7M129287.D\data.ms
Benzaldehyde,P
Isophorone,P
Benzoic Acid,T
bis(2-Chloroethoxy)methane,P
2,4-Dichlorophenol,P
Naphthalene,M
4-Chloroaniline,P
Hexachlorobutadiene,P
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Methylnaphthalene,T
Hexachlorocyclopentadiene,P
2,4,6-Trichlorophenol,P
2-Chloronaphthalene,P
2-Nitroaniline,P
Dimethylphthalate,P
Acenaphthylene,M
Acenaphthene,P
3-Nitroaniline,P
2,4-Dinitrophenol,P
4-Nitrophenol,P
Dibenzofuran,P
2,4-Dinitrotoluene,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Chlorophenyl-phenylether,P
Fluorene,P
4-Nitroaniline,P
4,6-Dinitro-2-methylphenol,P
1,2-Diphenylhydrazine,T
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 7M129287.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@160PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129286.D Sam Mult : 1 Vial# : 4 Qt On : 06/19/23 12:08
Acq On : 06/19/23 10:00 Misc : A,BNA Qt Upd On: 06/19/23 12:07

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.616	96	58033	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.830	152	89948	40.00	ng	0.00
31) Naphthalene-d8	6.841	136	362779	40.00	ng	0.00
50) Acenaphthene-d10	8.281	164	214980	40.00	ng	0.00
77) Phenanthrene-d10	9.749	188	374761	40.00	ng	0.00
91) Chrysene-d12	12.828	240	290491	40.00	ng	0.00
103) Perylene-d12	14.497	264	303314	40.00	ng	0.01
System Monitoring Compounds						
11) 2-Fluorophenol	4.649	112	546591	152.62	ng	0.00
Spiked Amount 100.000			Recovery = 152.62%			
16) Phenol-d5	5.531	99	616247	137.02	ng	0.00
Spiked Amount 100.000			Recovery = 137.02%			
32) Nitrobenzene-d5	6.283	128	131948	82.01	ng	0.00
Spiked Amount 50.000			Recovery = 164.02%			
55) 2-Fluorobiphenyl	7.681	172	541458	72.06	ng	0.00
Spiked Amount 50.000			Recovery = 144.12%			
80) 2,4,6-Tribromophenol	9.027	330	138060	162.91	ng	0.00
Spiked Amount 100.000			Recovery = 162.91%			
94) Terphenyl-d14	11.565	244	499599	84.10	ng	0.00
Spiked Amount 50.000			Recovery = 168.20%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.658	88	236742	160.5686	ng	100
9) Pyridine	3.116	79	460961	149.6951	ng	70
10) N-Nitrosodimethylamine	3.075	74	350442	144.7523	ng	74
12) Benzaldehyde	5.460	77	435735	130.4550	ng	75
13) Aniline	5.554	93	724807	130.7751	ng	91
14) Pentachloroethane	5.589	117	188650	141.9209	ng	87
15) bis(2-Chloroethyl)ether	5.613	93	485956	128.5653	ng	79
17) Phenol	5.542	94	680195	131.6593	ng	98
18) 2-Chlorophenol	5.654	128	528097	143.8957	ng	81
19) N-Decane	5.689	57	470632	156.1635	ng	88
20) 1,3-Dichlorobenzene	5.777	146	532447	129.6479	ng	99
22) 1,4-Dichlorobenzene	5.842	146	523765	149.0140	ng	97
23) 1,2-Dichlorobenzene	5.966	146	491148	148.3782	ng	98
24) Benzyl alcohol	5.948	108	352081	157.7323	ng	75
25) bis(2-chloroisopropyl)...	6.054	45	552438	195.9858	ng	94
26) 2-Methylphenol	6.036	108	466804	153.4488	ng	97
27) Acetophenone	6.165	105	638280	146.6699	ng	72
28) Hexachloroethane	6.236	117	216823	152.4022	ng	82
29) N-Nitroso-di-n-propyla...	6.165	70	301292	122.5251	ng	79
30) 3&4-Methylphenol	6.165	108	420606	133.0668	ng	100
33) Nitrobenzene	6.300	77	522033	132.9823	ng	76
34) Isophorone	6.488	82	1027059	137.9869	ng	84
35) 2-Nitrophenol	6.541	139	297475	162.5863	ng	91
36) 2,4-Dimethylphenol	6.577	107	504726	133.0212	ng	95
37) Benzoic Acid	6.694	105	481781m	145.6506	ng	
38) bis(2-Chloroethoxy)met...	6.647	93	587213	140.4600	ng	96
39) 2,4-Dichlorophenol	6.735	162	418143	139.8616	ng	87
40) 1,2,4-Trichlorobenzene	6.794	180	429085	129.2133	ng	97
41) Naphthalene	6.859	128	1419559	144.0118	ng	97
42) 4-Chloroaniline	6.894	127	539995m	144.1188	ng	
43) Hexachlorobutadiene	6.941	225	227015	109.2862	ng	97
44) Caprolactam	7.217	113	211366	185.8534	ng	68
45) 4-Chloro-3-methylphenol	7.270	107	464579	142.5555	ng	82
46) 2-Methylnaphthalene	7.393	142	954964	140.0573	ng	98
47) 1-Methylnaphthalene	7.476	142	878659	139.4900	ng	92
48) Methylnaphthalenes (To...	7.393	142	1833966m	279.1302	ng	
49) 1,1'-Biphenyl	7.775	154	1173602	138.6751	ng	94
51) 1,2,4,5-Tetrachloroben...	7.528	216	425648	131.8776	ng	98
52) Hexachlorocyclopentadiene	7.517	237	165175	89.8868	ng	98
53) 2,4,6-Trichlorophenol	7.617	196	315551	136.4820	ng	98
54) 2,4,5-Trichlorophenol	7.658	196	338968	140.4807	ng	98
56) 2-Chloronaphthalene	7.799	162	897809	142.0092	ng	91
57) 1,4-Dimethylnaphthalene	8.081	156	663263	127.2565	ng	87
58) Dimethylnaphthalenes (...	8.081	156	663263	127.2565	ng	87
59) Diphenyl Ether	7.857	170	660361	149.7295	ng	77
60) 2-Nitroaniline	7.881	65	335660	146.8638	ng	50
61) Coumarin	8.075	146	350514	136.8670	ng	73
62) Acenaphthylene	8.163	152	1280351	143.6159	ng	99
63) Dimethylphthalate	8.028	163	1076306	142.5900	ng	98
64) 2,6-Dinitrotoluene	8.087	165	223948	132.4605	ng	63
65) Acenaphthene	8.310	153	886988	143.8821	ng	98

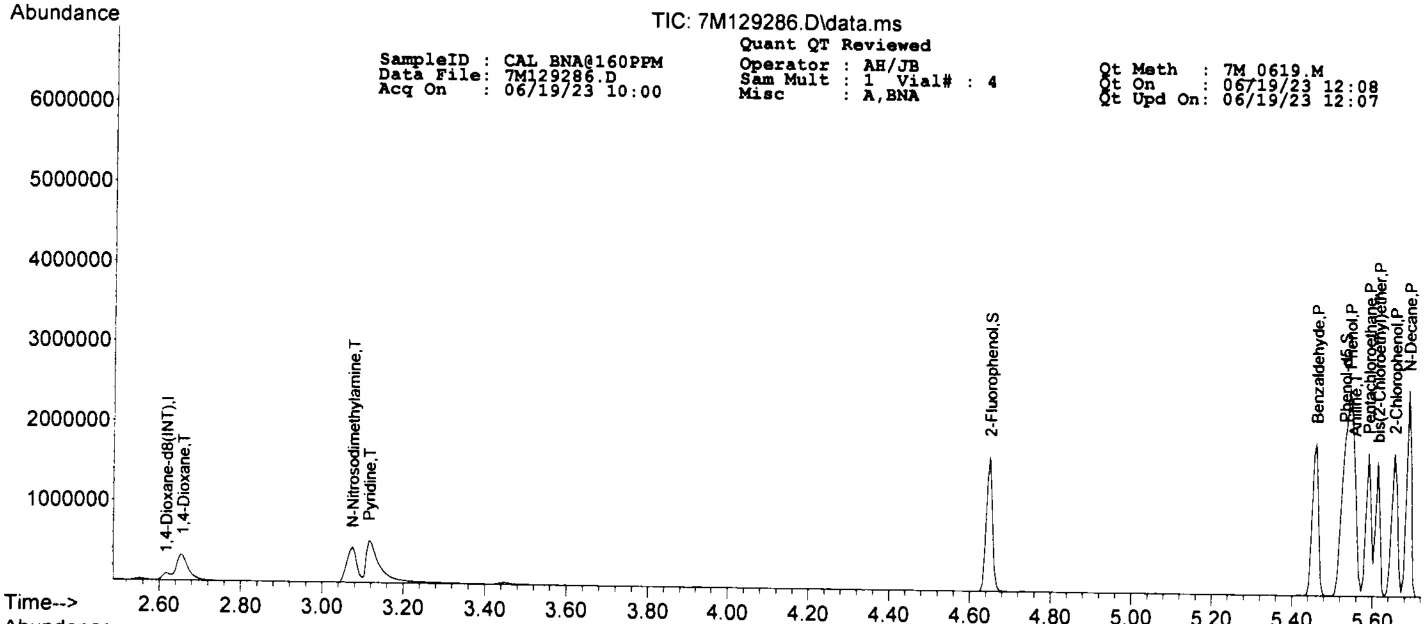
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@160PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129286.D Sam Mult : 1 Vial# : 4 Qt On : 06/19/23 12:08
Acq On : 06/19/23 10:00 Misc : A,BNA Qt Upd On: 06/19/23 12:07

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.239	138	271353	161.0256	ng	77
67)	2,4-Dinitrophenol	8.333	184	154004	152.2842	ng	34
68)	Dibenzofuran	8.469	168	1281046	140.8903	ng	86
69)	2,4-Dinitrotoluene	8.451	165	356695	157.2453	ng	64
70)	4-Nitrophenol	8.374	65	223584	152.2329	ng	87
71)	2,3,4,6-Tetrachlorophenol	8.580	232	267792	131.4673	ng	84
72)	Fluorene	8.792	166	1046008	140.1418	ng	97
73)	4-Chlorophenyl-phenyle...	8.780	204	509012	130.1196	ng	83
74)	Diethylphthalate	8.662	149	1053324	139.1372	ng	95
75)	4-Nitroaniline	8.821	138	309498	166.6627	ng	76
76)	Atrazine	9.438	200	334904	148.4464	ng	97
78)	4,6-Dinitro-2-methylph...	8.845	198	203306	179.1261	ng	69
79)	n-Nitrosodiphenylamine	8.897	169	929186	152.1539	ng	98
81)	1,2-Diphenylhydrazine	8.939	77	1138065	149.0970	ng	80
82)	4-Bromophenyl-phenylether	9.273	248	301265	140.6409	ng	84
83)	Hexachlorobenzene	9.344	284	322786	147.1200	ng	60
84)	N-Octadecane	9.608	57	527069	188.6515	ng	74
85)	Pentachlorophenol	9.544	266	200778	143.0655	ng	96
86)	Phenanthrene	9.785	178	1485159	150.2734	ng	99
87)	Anthracene	9.838	178	1528556	151.4460	ng	98
88)	Carbazole	10.008	167	1501035	161.6779	ng	97
89)	Di-n-butylphthalate	10.384	149	1861496	154.5960	ng	98
90)	Fluoranthene	11.118	202	1679625	143.1274	ng	92
92)	Pyrene	11.389	202	1669969	158.6932	ng	87
93)	Benzidine	11.277	184	903957	169.8157	ng	87
95)	4,4'-DDE	11.500	246	355995	148.8404	ng	94
96)	4,4'-DDD	11.906	235	641641	146.0815	ng	94
97)	Butylbenzylphthalate	12.164	149	826696	175.5496	ng	69
98)	4,4'-DDT	12.258	235	466484	140.2664	ng	98
99)	3,3'-Dichlorobenzidine	12.793	252	543505	161.0513	ng	96
100)	Benzo[a]anthracene	12.816	228	1482320	150.7445	ng	99
101)	Chrysene	12.869	228	1256472	139.6514	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.858	149	995151	165.5690	ng	91
104)	Di-n-octylphthalate	13.621	149	1919268	158.3041	ng	99
105)	Benzo[b]fluoranthene	14.068	252	1590858m	149.8705	ng	
106)	Benzo[k]fluoranthene	14.103	252	1251501m	131.3638	ng	
107)	Benzo[a]pyrene	14.438	252	1308814	146.6979	ng	93
108)	Indeno[1,2,3-cd]pyrene	15.895	276	1509003	142.7522	ng	84
109)	Dibenzo[a,h]anthracene	15.925	278	1246221	142.2719	ng	89
110)	Benzo[g,h,i]perylene	16.307	276	1250386	148.9548	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed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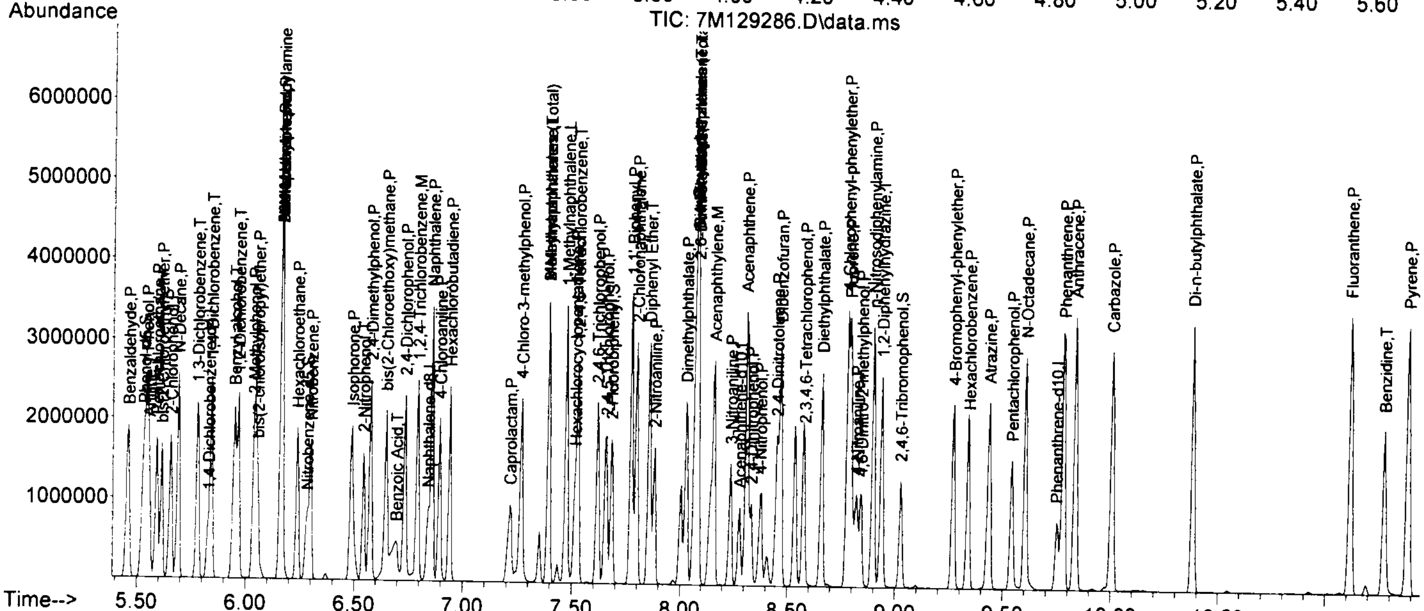
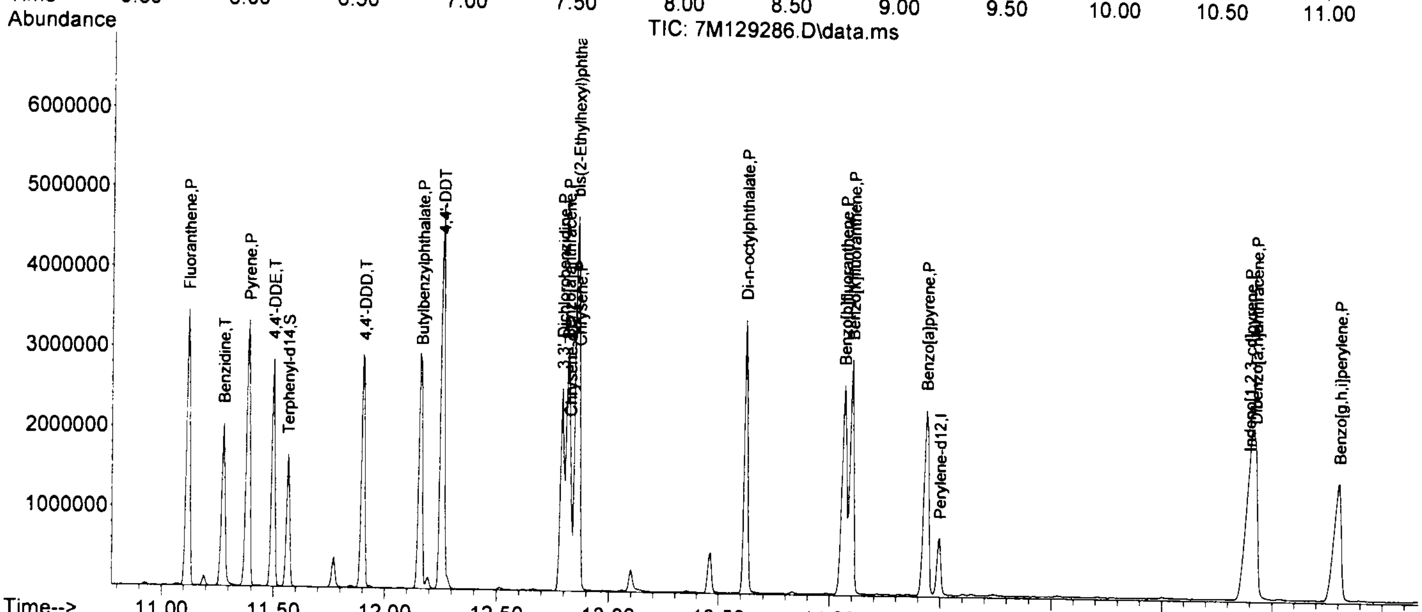
TIC: 7M129286.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@160PPM
Data File: 7M129286.D
Acq On : 06/19/23 10:00
Operator : AH/JB
Sam Mult : 1 Vial# : 4
Misc : A,BNA
Qt Meth : 7M_0619.M
Qt On : 06/19/23 12:08
Qt Upd On: 06/19/23 12:07
6000000
5000000
4000000
3000000
2000000
1000000
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Pentachloroethane,P
2-Chlorophenol,P
N-Decane,P
Time-->
2.60 2.80 3.00 3.20 3.40 3.60 3.80 4.00 4.20 4.40 4.60 4.80 5.00 5.20 5.40 5.60


Abundance
TIC: 7M129286.D\data.ms
6000000
5000000
4000000
3000000
2000000
1000000
Benzaldehyde,P
1,3-Dichlorobenzene,T
Hexachloroethane,P
Isophorone,P
2,4-Dimethylphenol,P
bis(2-Chloroethoxy)methane,P
2,4-Dichlorophenol,P
1,2,4-Trichlorobenzene,M
Naphthalene,P
Hexachlorobutadiene,P
Benzoic Acid,T
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Nitroaniline,P
Dimethylphthalate,P
Acenaphthylene,M
Acenaphthene,P
Dibenzofuran,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Chlorophenyl-phenylether,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene-d10,I
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->
5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00


Abundance
TIC: 7M129286.D\data.ms
6000000
5000000
4000000
3000000
2000000
1000000
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Chrysene,P
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->
11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50 15.00 15.50 16.00 16.50

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@196PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129285.D Sam Mult : 1 Vial# : 3 Qt On : 06/19/23 12:07
Acq On : 06/19/23 09:36 Misc : A,BNA Qt Upd On: 06/19/23 12:07

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.617	96	71956	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.831	152	110326	40.00	ng	0.00
31) Naphthalene-d8	6.847	136	455871	40.00	ng	0.01
50) Acenaphthene-d10	8.287	164	283868	40.00	ng	0.01
77) Phenanthrene-d10	9.755	188	499024	40.00	ng	0.00
91) Chrysene-d12	12.840	240	363392	40.00	ng	0.01
103) Perylene-d12	14.491	264	384115	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.650	112	854706	192.48	ng	0.00
Spiked Amount 100.000			Recovery = 192.48%			
16) Phenol-d5	5.543	99	943087	169.12	ng	0.02
Spiked Amount 100.000			Recovery = 169.12%			
32) Nitrobenzene-d5	6.289	128	211818	104.77	ng	0.01
Spiked Amount 50.000			Recovery = 209.54%			
55) 2-Fluorobiphenyl	7.687	172	876352	88.33	ng	0.00
Spiked Amount 50.000			Recovery = 176.66%			
80) 2,4,6-Tribromophenol	9.039	330	248847	220.51	ng	0.01
Spiked Amount 100.000			Recovery = 220.51%			
94) Terphenyl-d14	11.571	244	860805	115.83	ng	0.00
Spiked Amount 50.000			Recovery = 231.66%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.658	88	376409	205.8985	ng	98
9) Pyridine	3.122	79	732293	191.7946	ng	71
10) N-Nitrosodimethylamine	3.087	74	569154	189.6038	ng	74
12) Benzaldehyde	5.460	77	584421	141.1147	ng	76
13) Aniline	5.560	93	964979	140.4198	ng	97
14) Pentachloroethane	5.596	117	280447	170.1564	ng	85
15) bis(2-Chloroethyl)ether	5.619	93	794488	169.5204	ng	81
17) Phenol	5.554	94	993727	155.1291	ng	88
18) 2-Chlorophenol	5.660	128	816577	179.4483	ng	81
19) N-Decane	5.695	57	685824	183.5349	ng	87
20) 1,3-Dichlorobenzene	5.784	146	791737	155.4812	ng	99
22) 1,4-Dichlorobenzene	5.848	146	768482	178.2535	ng	99
23) 1,2-Dichlorobenzene	5.972	146	711033	175.1302	ng	98
24) Benzyl alcohol	5.954	108	547163	199.8519	ng	73
25) bis(2-chloroisopropyl)...	6.060	45	795987	230.2294	ng	93
26) 2-Methylphenol	6.042	108	718690	192.6124	ng	98
27) Acetophenone	6.171	105	965250	180.8353	ng	68
28) Hexachloroethane	6.242	117	332243	190.3949	ng	86
29) N-Nitroso-di-n-propyla...	6.177	70	471114	156.1986	ng	83
30) 3&4-Methylphenol	6.177	108	623598	160.8468	ng	100
33) Nitrobenzene	6.307	77	821607	166.5559	ng	77
34) Isophorone	6.495	82	1704743	182.2643	ng	87
35) 2-Nitrophenol	6.547	139	472181	205.3724	ng	91
36) 2,4-Dimethylphenol	6.589	107	812135	170.3310	ng	95
37) Benzoic Acid	6.735	105	759186	182.6464	ng	48
38) bis(2-Chloroethoxy)met...	6.653	93	927506	176.5525	ng	96
39) 2,4-Dichlorophenol	6.741	162	649395	172.8553	ng	89
40) 1,2,4-Trichlorobenzene	6.794	180	671094	160.8227	ng	98
41) Naphthalene	6.865	128	2135987	172.4422	ng	97
42) 4-Chloroaniline	6.900	127	703291m	149.3709	ng	
43) Hexachlorobutadiene	6.947	225	360239	138.0071	ng	97
44) Caprolactam	7.247	113	351500	245.9580	ng	66
45) 4-Chloro-3-methylphenol	7.276	107	753827	184.0757	ng	83
46) 2-Methylnaphthalene	7.399	142	1467039	171.2224	ng	99
47) 1-Methylnaphthalene	7.482	142	1381039	174.4732	ng	92
48) Methylnaphthalenes (To...	7.399	142	2847941m	344.9425	ng	
49) 1,1'-Biphenyl	7.781	154	1826807	171.7792	ng	93
51) 1,2,4,5-Tetrachloroben...	7.535	216	677739	159.0247	ng	99
52) Hexachlorocyclopentadiene	7.517	237	305891	126.0665	ng	99
53) 2,4,6-Trichlorophenol	7.623	196	522526	171.1573	ng	98
54) 2,4,5-Trichlorophenol	7.664	196	562023	176.3980	ng	98
56) 2-Chloronaphthalene	7.805	162	1430892	171.4040	ng	92
57) 1,4-Dimethylnaphthalene	8.087	156	1012418	147.1077	ng	86
58) Dimethylnaphthalenes (...	8.087	156	1012418	147.1077	ng	86
59) Diphenyl Ether	7.864	170	1055845	181.3041	ng	75
60) 2-Nitroaniline	7.887	65	546257	181.0064	ng	50
61) Coumarin	8.087	146	519461	153.6130	ng	75
62) Acenaphthylene	8.169	152	1997062	169.6472	ng	97
63) Dimethylphthalate	8.046	163	1798899	180.4852	ng	98
64) 2,6-Dinitrotoluene	8.104	165	367064	164.4230	ng	54
65) Acenaphthene	8.322	153	1401639	172.1895	ng	99

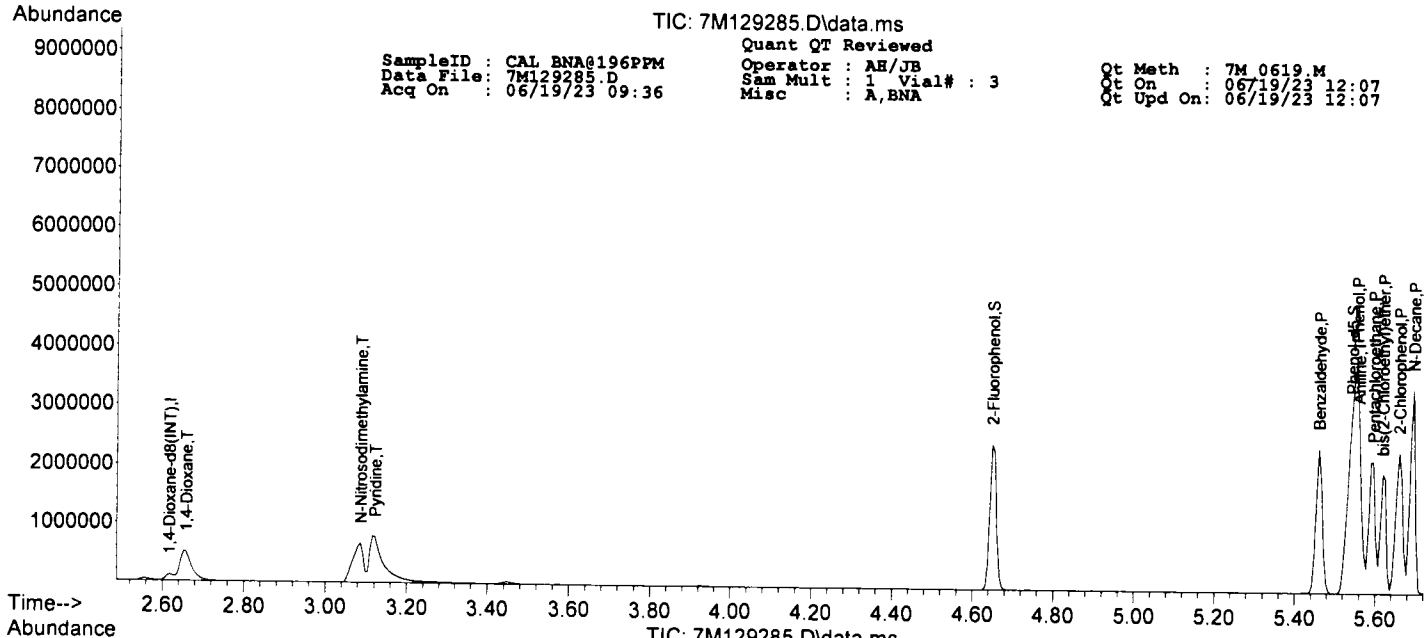
Quantitation Report (QT Reviewed)

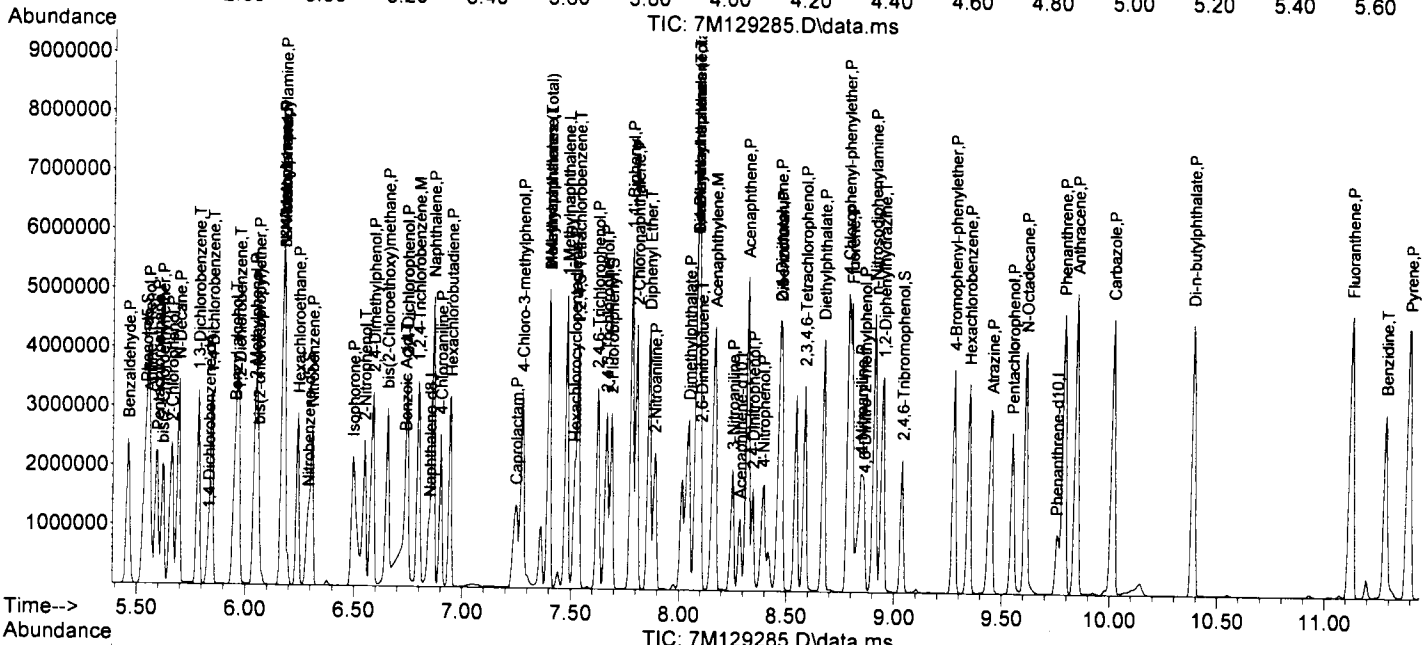
SampleID : CAL BNA@196PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129285.D Sam Mult : 1 Vial# : 3 Qt On : 06/19/23 12:07
Acq On : 06/19/23 09:36 Misc : A,BNA Qt Upd On: 06/19/23 12:07

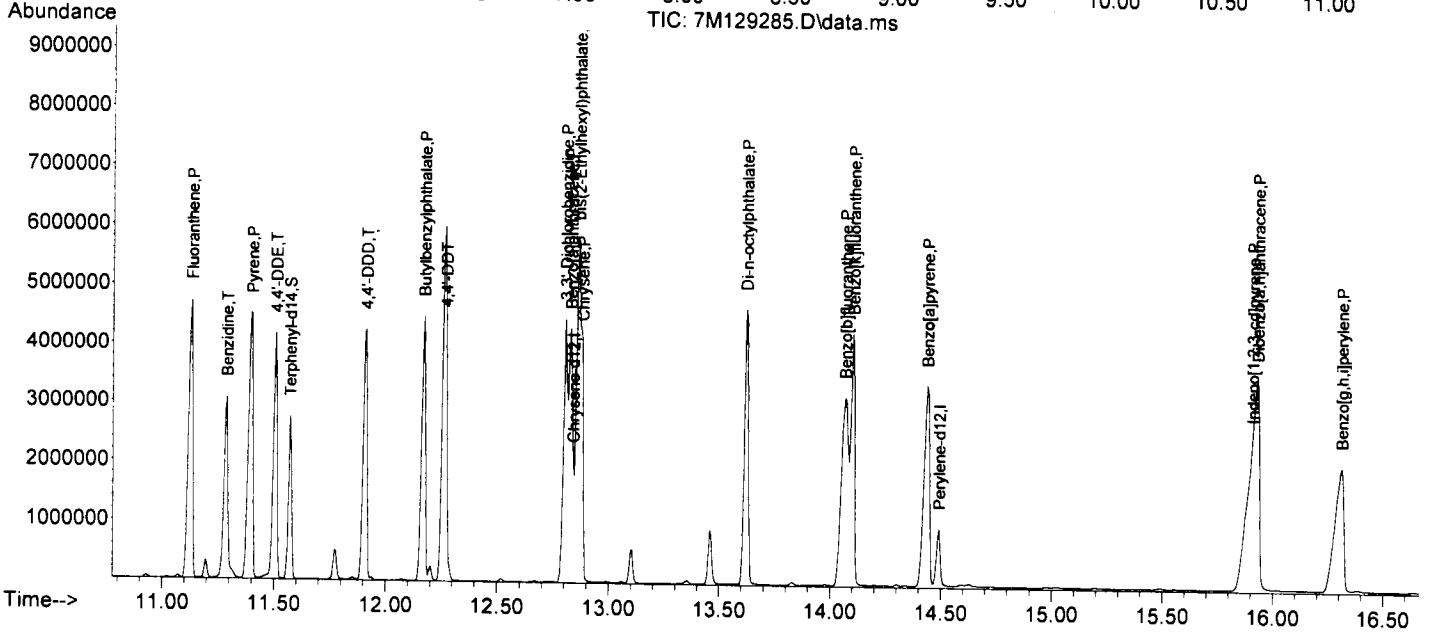
Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.251	138	428802	192.7075	ng	76
67)	2,4-Dinitrophenol	8.345	184	271303	192.2785	ng	40
68)	Dibenzofuran	8.475	168	1978108	164.7586	ng	88
69)	2,4-Dinitrotoluene	8.469	165	571629	190.8432	ng	63
70)	4-Nitrophenol	8.392	65	387450	199.7860	ng	86
71)	2,3,4,6-Tetrachlorophenol	8.586	232	445654	165.6913	ng	86
72)	Fluorene	8.804	166	1662799	168.7151	ng	99
73)	4-Chlorophenyl-phenyle...	8.786	204	826191	159.9472	ng	83
74)	Diethylphthalate	8.674	149	1702825	170.3464	ng	95
75)	4-Nitroaniline	8.845	138	505538	206.1654	ng	78
76)	Atrazine	9.456	200	551356	185.0816	ng	96
78)	4,6-Dinitro-2-methylph...	8.862	198	346679	229.3872	ng	70
79)	n-Nitrosodiphenylamine	8.909	169	1538213	189.1603	ng	98
81)	1,2-Diphenylhydrazine	8.951	77	1798757	176.9731	ng	74
82)	4-Bromophenyl-phenylether	9.280	248	525650	184.2861	ng	83
83)	Hexachlorobenzene	9.350	284	554502	189.7986	ng	61
84)	N-Octadecane	9.614	57	800358	215.1344	ng	70
85)	Pentachlorophenol	9.550	266	355257	190.1054	ng	97
86)	Phenanthrene	9.791	178	2458476	186.8134	ng	99
87)	Anthracene	9.849	178	2462284	183.2093	ng	98
88)	Carbazole	10.020	167	2443178	197.6277	ng	97
89)	Di-n-butylphthalate	10.390	149	2997778	186.9686	ng	97
90)	Fluoranthene	11.130	202	2758431	176.5248	ng	90
92)	Pyrene	11.401	202	2698244	204.9691	ng	85
93)	Benzidine	11.289	184	1433364	215.2503	ng	85
95)	4,4'-DDE	11.506	246	601707	201.1034	ng	92
96)	4,4'-DDD	11.912	235	1054114	191.8439	ng	95
97)	Butylbenzylphthalate	12.170	149	1342655	227.9165	ng	71
98)	4,4'-DDT	12.270	235	741662	178.2708	ng	99
99)	3,3'-Dichlorobenzidine	12.805	252	855970	202.7573	ng	96
100)	Benzo[a]anthracene	12.828	228	2429003	197.4626	ng	98
101)	Chrysene	12.881	228	2062102	183.2145	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.864	149	1567069	208.4182	ng	88
104)	Di-n-octylphthalate	13.622	149	3040471	198.0289	ng	98
105)	Benzo[b]fluoranthene	14.068	252	2735221	203.4738	ng	94
106)	Benzo[k]fluoranthene	14.103	252	2021323m	167.5373	ng	
107)	Benzo[a]pyrene	14.438	252	2170418	192.0970	ng	93
108)	Indeno[1,2,3-cd]pyrene	15.907	276	2580772	192.7852	ng	88
109)	Dibenzo[a,h]anthracene	15.931	278	2112472	190.4347	ng	88
110)	Benzo[g,h,i]perylene	16.313	276	2139830	201.2893	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 7M129285.D\data.ms
SampleID : CAL BNA@196PPM
Data File: 7M129285.D
Acq On : 06/19/23 09:36
Quant QT Reviewed
Operator : AH/JB
Sam Mult : 1 Vial# : 3
Misc : A,BNA
Qt Meth : 7M_0619.M
Qt On : 06/19/23 12:07
Qt Upd On: 06/19/23 12:07
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->


Abundance
TIC: 7M129285.D\data.ms
Benzaldehyde,P
Caprolactam,P
4-Chloro-3-methylphenol,P
Acenaphthylene,M
Acenaphthene,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 7M129285.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@0.5PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129291.D Sam Mult : 1 Vial# : 9 Qt On : 06/19/23 12:18
Acq On : 06/19/23 11:57 Misc : A,BNA Qt Upd On: 06/19/23 12:07

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.617	96	74966	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.825	152	130341	40.00	ng	0.00
31) Naphthalene-d8	6.835	136	527908	40.00	ng	0.00
50) Acenaphthene-d10	8.269	164	313798	40.00	ng	0.00
77) Phenanthrene-d10	9.744	188	526689	40.00	ng	0.00
91) Chrysene-d12	12.817	240	436055	40.00	ng	-0.01
103) Perylene-d12	14.473	264	420092	40.00	ng	-0.01
System Monitoring Compounds						
11) 2-Fluorophenol	0.000	112	0d	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
16) Phenol-d5	0.000	99	0d	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
32) Nitrobenzene-d5	0.000	128	0d	0.00	ng	
Spiked Amount 50.000			Recovery =	0.00%		
55) 2-Fluorobiphenyl	0.000	172	0d	0.00	ng	
Spiked Amount 50.000			Recovery =	0.00%		
80) 2,4,6-Tribromophenol	0.000	330	0d	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
94) Terphenyl-d14	0.000	244	0d	0.00	ng	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
8) 1,4-Dioxane	2.669	88	980	0.5145	ng	97
9) Pyridine	0.000		0	N.D. d		
10) N-Nitrosodimethylamine	0.000		0	N.D. d		
12) Benzaldehyde	0.000		0	N.D. d		
13) Aniline	5.543	93	3603	0.5032	ng	90
14) Pentachloroethane	0.000		0	N.D. d		
15) bis(2-Chloroethyl)ether	5.601	93	2549	0.5220	ng	90
17) Phenol	0.000		0	N.D. d		
18) 2-Chlorophenol	0.000		0	N.D. d		
19) N-Decane	0.000		0	N.D. d		
20) 1,3-Dichlorobenzene	0.000		0	N.D. d		
22) 1,4-Dichlorobenzene	0.000		0	N.D. d		
23) 1,2-Dichlorobenzene	0.000		0	N.D. d		
24) Benzyl alcohol	0.000		0	N.D. d		
25) bis(2-chloroisopropyl)...	0.000		0	N.D. d		
26) 2-Methylphenol	6.030	108	2331	0.5288	ng	89
27) Acetophenone	0.000		0	N.D. d		
28) Hexachloroethane	0.000		0	N.D. d		
29) N-Nitroso-di-n-propyla...	6.148	70	1887	0.5296	ng	83
30) 3&4-Methylphenol	6.154	108	2521	0.5504	ng	94
33) Nitrobenzene	0.000		0	N.D. d		
34) Isophorone	0.000		0	N.D. d		
35) 2-Nitrophenol	0.000		0	N.D. d		
36) 2,4-Dimethylphenol	6.565	107	2683	0.4859	ng	90
37) Benzoic Acid	0.000		0	N.D. d		
38) bis(2-Chloroethoxy)met...	0.000		0	N.D. d		
39) 2,4-Dichlorophenol	6.724	162	1936	0.4450	ng	92
40) 1,2,4-Trichlorobenzene	0.000		0	N.D. d		
41) Naphthalene	6.847	128	8410	0.5863	ng	97
42) 4-Chloroaniline	6.888	127	2799m	0.5134	ng	
43) Hexachlorobutadiene	0.000		0	N.D. d		
44) Caprolactam	0.000		0	N.D. d		
45) 4-Chloro-3-methylphenol	0.000		0	N.D. d		
46) 2-Methylnaphthalene	0.000		0	N.D. d		
47) 1-Methylnaphthalene	0.000		0	N.D. d		
48) Methylnaphthalenes (To...	0.000		0	N.D. d		
49) 1,1'-Biphenyl	0.000		0	N.D. d		
51) 1,2,4,5-Tetrachloroben...	0.000		0	N.D. d		
52) Hexachlorocyclopentadiene	0.000		0	N.D.		
53) 2,4,6-Trichlorophenol	0.000		0	N.D. d		
54) 2,4,5-Trichlorophenol	0.000		0	N.D. d		
56) 2-Chloronaphthalene	0.000		0	N.D. d		
57) 1,4-Dimethylnaphthalene	0.000		0	N.D. d		
58) Dimethylnaphthalenes (...	0.000		0	N.D. d		
59) Diphenyl Ether	0.000		0	N.D. d		
60) 2-Nitroaniline	0.000		0	N.D. d		
61) Coumarin	0.000		0	N.D. d		
62) Acenaphthylene	0.000		0	N.D. d		
63) Dimethylphthalate	0.000		0	N.D. d		
64) 2,6-Dinitrotoluene	0.000		0	N.D. d		
65) Acenaphthene	0.000		0	N.D. d		

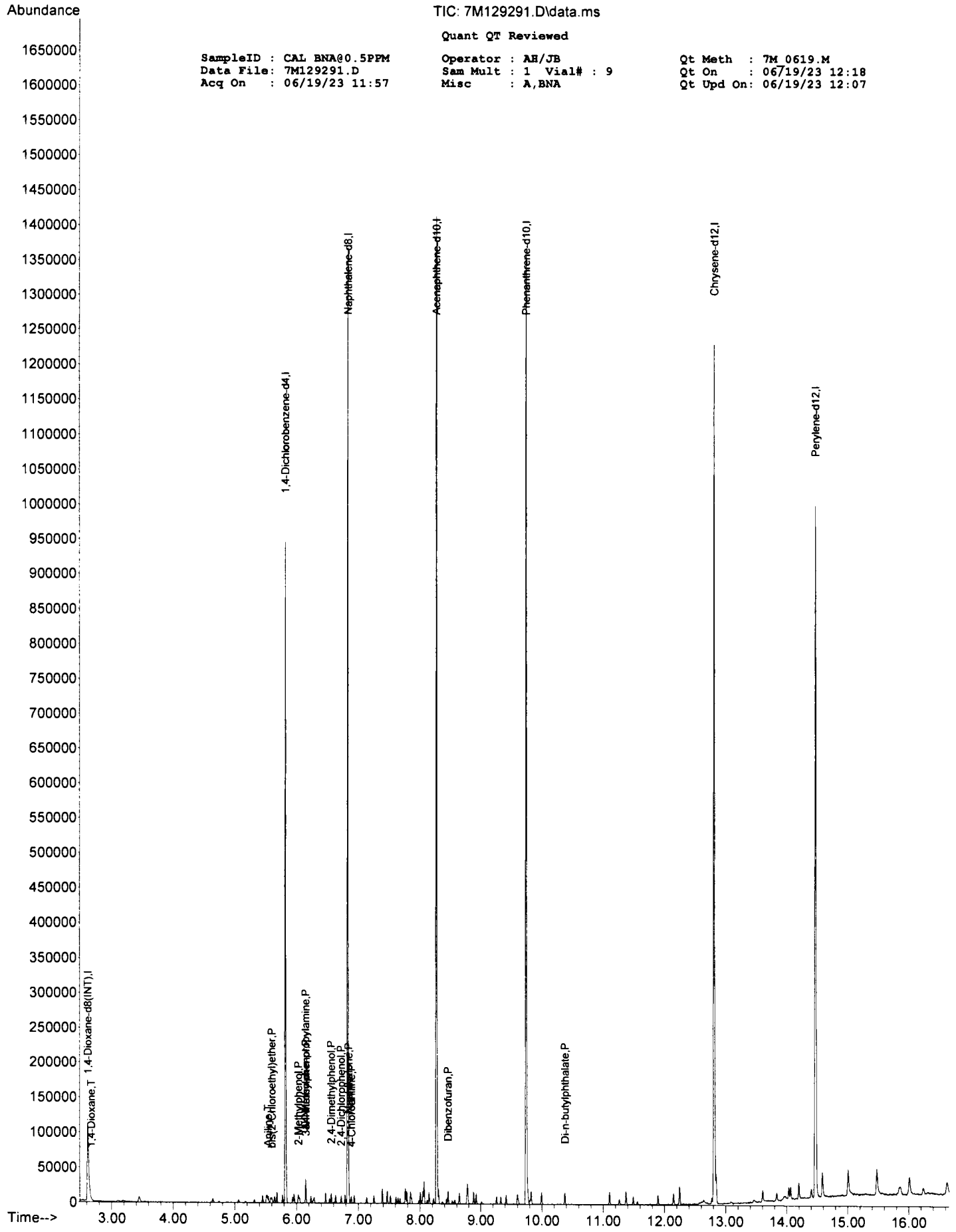
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@0.5PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129291.D Sam Mult : 1 Vial# : 9 Qt On : 06/19/23 12:18
Acq On : 06/19/23 11:57 Misc : A,BNA Qt Upd On: 06/19/23 12:07

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	0.000		0	N.D. d		
67)	2,4-Dinitrophenol	0.000		0	N.D.		
68)	Dibenzofuran	8.457	168	7249	0.5462	ng	83
69)	2,4-Dinitrotoluene	0.000		0	N.D. d		
70)	4-Nitrophenol	0.000		0	N.D. d		
71)	2,3,4,6-Tetrachlorophenol	0.000		0	N.D. d		
72)	Fluorene	0.000		0	N.D. d		
73)	4-Chlorophenyl-phenyle...	0.000		0	N.D. d		
74)	Diethylphthalate	0.000		0	N.D. d		
75)	4-Nitroaniline	0.000		0	N.D. d		
76)	Atrazine	0.000		0	N.D. d		
78)	4,6-Dinitro-2-methylph...	0.000		0	N.D.		
79)	n-Nitrosodiphenylamine	0.000		0	N.D. d		
81)	1,2-Diphenylhydrazine	0.000		0	N.D. d		
82)	4-Bromophenyl-phenylether	0.000		0	N.D. d		
83)	Hexachlorobenzene	0.000		0	N.D. d		
84)	N-Octadecane	0.000		0	N.D. d		
85)	Pentachlorophenol	0.000		0	N.D. d		
86)	Phenanthrene	0.000		0	N.D. d		
87)	Anthracene	0.000		0	N.D. d		
88)	Carbazole	0.000		0	N.D. d		
89)	Di-n-butylphthalate	10.378	149	9376	0.5541	ng	94
90)	Fluoranthene	0.000		0	N.D. d		
92)	Pyrene	0.000		0	N.D. d		
93)	Benzidine	0.000		0	N.D. d		
95)	4,4'-DDE	0.000		0	N.D. d		
96)	4,4'-DDD	0.000		0	N.D. d		
97)	Butylbenzylphthalate	0.000		0	N.D. d		
98)	4,4'-DDT	0.000		0	N.D. d		
99)	3,3'-Dichlorobenzidine	0.000		0	N.D. d		
100)	Benzo[a]anthracene	0.000		0	N.D. d		
101)	Chrysene	0.000		0	N.D. d		
102)	bis(2-Ethylhexyl)phtha...	0.000		0	N.D. d		
104)	Di-n-octylphthalate	0.000		0	N.D. d		
105)	Benzo[b]fluoranthene	0.000		0	N.D. d		
106)	Benzo[k]fluoranthene	0.000		0	N.D. d		
107)	Benzo[a]pyrene	0.000		0	N.D. d		
108)	Indeno[1,2,3-cd]pyrene	0.000		0	N.D. d		
109)	Dibenzo[a,h]anthracene	0.000		0	N.D. d		
110)	Benzo[g,h,i]perylene	0.000		0	N.D. d		

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 7M129291.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@0.5PPM
Data File: 7M129291.D
Acq On : 06/19/23 11:57
Operator : AE/JB
Sam Mult : 1 Vial# : 9
Misc : A,BNA
Qt Meth : 7M_0619.M
Qt On : 06/19/23 12:18
Qt Upd On: 06/19/23 12:07
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,P
2,4-Dimethylphenol,P
2,4-Dichlorophenol,P
Naphthalene-d8,I
Acenaphthene-d10,I
Dibenzofuran,P
Phenanthrene-d10,I
Di-n-butylphthalate,P
Chrysene-d12,I
Perylene-d12,I
Time-->

3061310 0392

Form 6
Initial Calibration

Method: EPA 8270E

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M122396.D	CAL BNA@50PPM	06/21/23 14:44	2	9M122389.D	CAL BNA@2PPM	06/21/23 12:06
3	9M122388.D	CAL BNA@10PPM	06/21/23 11:44	4	9M122394.D	CAL BNA@20PPM	06/21/23 13:59
5	9M122393.D	CAL BNA@80PPM	06/21/23 13:36	6	9M122392.D	CAL BNA@120PPM	06/21/23 13:14
7	9M122391.D	CAL BNA@160PPM	06/21/23 12:51	8	9M122390.D	CAL BNA@196PPM	06/21/23 12:29
9	9M122395.D	CAL BNA@0.5PPM	06/21/23 14:21				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Avg	0.9611	1.4238	0.9981	0.9553	0.9315	0.9351	0.9872	1.0024	1.1675	1.04	2.61	0.999	0.999	15		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	1.9437	2.1164	1.6105	1.8528	1.9624	1.9897	2.1053	2.0892	-----	1.96	3.07	0.999	1.00	8.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.5581	1.7532	1.3802	1.4454	1.5185	1.5226	1.5778	1.6420	-----	1.55	3.00	0.998	1.00	7.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.3003	2.7975	2.1820	2.2190	2.2038	2.2564	2.3487	2.3679	-----	2.33	4.61	0.999	1.00	8.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	1.9967	2.9092	2.0664	1.9265	1.9625	1.9437	1.9880	1.9889	-----	2.10	5.44	1.00	1.00	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	3.1714	3.9181	2.8657	2.9913	3.0725	3.0801	3.1012	3.1597	4.1976	3.28	5.53	1.00	1.00	14		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.9135	1.1510	0.8872	0.8666	0.8705	0.8819	0.8947	0.9060	-----	0.921	5.57	1.00	1.00	10	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	2.3683	2.9182	2.2178	2.3116	2.2193	2.1913	2.2703	2.2646	3.3976	2.46	5.59	0.999	1.00	17	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	2.7478	3.4539	2.5637	2.6311	2.6517	2.7048	2.7942	2.8069	-----	2.79	5.49	0.999	1.00	10		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.2427	3.9608	3.1259	3.1332	3.1367	3.1218	3.2369	3.2530	-----	3.28	5.50	0.999	1.00	8.6	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.4813	3.3520	2.3419	2.4602	2.4208	2.4010	2.4580	2.4713	-----	2.55	5.63	1.00	1.00	13	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	2.9689	3.8171	2.7936	2.8884	2.8353	2.8319	2.8704	2.8776	-----	2.99	5.68	1.00	1.00	11	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	2.7969	3.5517	2.7402	2.7113	2.6902	2.6824	2.7151	2.7346	-----	2.83	5.77	1.00	1.00	10		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.4865	1.9598	1.4376	1.4283	1.4711	1.4114	1.4532	1.5346	-----	1.52	5.82	0.998	0.999	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.3923	1.8243	1.2934	1.3418	1.4056	1.3121	1.3754	1.4473	-----	1.42	5.95	0.997	0.998	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.8479	0.9566	0.7827	0.8095	0.8473	0.8215	0.8656	0.8995	-----	0.854	5.92	0.998	0.999	6.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.8984	2.3544	1.7793	1.8330	1.8509	1.7748	1.8332	1.9209	-----	1.91	6.04	0.998	0.999	9.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.1537	1.3779	1.0843	1.1233	1.1623	1.1002	1.1647	1.2260	1.4657	1.21	6.01	0.997	0.999	11	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.6654	2.1770	1.5380	1.6321	1.6431	1.5342	1.5788	1.6433	-----	1.68	6.14	0.998	0.999	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5540	0.7139	0.5141	0.5197	0.5435	0.5290	0.5484	0.5781	-----	0.563	6.22	0.998	0.999	11	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	0.8948	1.1327	0.8274	0.8809	0.8940	0.8312	0.8606	0.9014	1.0589	0.920	6.14	0.998	0.999	11	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.2144	1.3136	1.0610	1.1741	1.2122	1.1260	1.1936	1.2254	1.5780	1.23	6.13	0.998	0.999	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1580	0.2321	0.1550	0.1491	0.1603	0.1588	0.1636	0.1701	-----	0.168	6.26	0.998	1.00	16		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3402	0.4549	0.3046	0.3313	0.3394	0.3305	0.3459	0.3539	-----	0.350	6.28	0.999	1.00	13	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6411	0.8192	0.5824	0.6148	0.6303	0.6254	0.6435	0.6635	-----	0.653	6.46	0.999	1.00	11	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.1757	0.1837	0.1504	0.1658	0.1829	0.1815	0.1897	0.1984	-----	0.179	6.52	0.997	1.00	8.3	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Avg	0.3267	0.3778	0.2961	0.3104	0.3305	0.3236	0.3343	0.3501	0.4050	0.339	6.55	0.998	1.00	10	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.1906	-----	0.1022	0.1616	0.2250	0.2381	0.2581	0.2671	-----	0.206	6.60	0.996	1.00	29		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.3889	0.4966	0.3596	0.3706	0.3839	0.3798	0.3894	0.4033	-----	0.397	6.62	0.999	1.00	11	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Avg	0.2879	0.3222	0.2565	0.2759	0.2851	0.2812	0.2938	0.3070	0.2973	0.290	6.70	0.998	1.00	6.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.3139	0.3888	0.2987	0.3103	0.3150	0.3135	0.3235	0.3327	-----	0.325	6.77	0.999	1.00	8.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	1.0546	1.3669	1.0253	1.0374	1.0381	1.0210	1.0522	1.0948	1.5765	1.14	6.84	0.999	1.00	17	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.3581	0.4173	0.3370	0.3427	0.3567	0.3270	0.3262	0.4676	0.4567	0.377	6.87	0.948	0.974	15	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1769	0.2343	0.1739	0.1782	0.1782	0.1777	0.1849	0.1902	-----	0.187	6.92	0.999	1.00	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.1000	0.1168	0.0888	0.0992	0.1010	0.1005	0.1067	0.1109	-----	0.103	7.14	0.997	1.00	8.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2748	0.2868	0.2350	0.2635	0.2783	0.2728	0.2868	0.2978	-----	0.275	7.23	0.998	1.00	6.9	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.6859	0.8689	0.6439	0.6703	0.6857	0.6788	0.6905	0.7169	-----	0.705	7.37	0.999	1.00	9.8	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6524	0.7940	0.6165	0.6282	0.6319	0.6348	0.6522	0.6729	-----	0.660	7.45	0.999	1.00	8.6	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Avg	0.6585	0.8314	0.6262	0.6454	0.6575	0.6530	0.6674	0.6910	-----	0.679	7.45	0.999	1.00	9.5		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.8527	1.0387	0.8044	0.8217	0.8377	0.8192	0.8672	0.8966	-----	0.867	7.74	0.998	0.999	8.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.5919	0.7642	0.5523	0.5722	0.5792	0.5729	0.6021	0.6072	-----	0.605	7.50	0.999	1.00	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.769

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_9

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	9M122396.D	CAL BNA@50PPM	06/21/23 14:44	2	9M122389.D	CAL BNA@2PPM	06/21/23 12:06
3	9M122388.D	CAL BNA@10PPM	06/21/23 11:44	4	9M122394.D	CAL BNA@20PPM	06/21/23 13:59
5	9M122393.D	CAL BNA@80PPM	06/21/23 13:36	6	9M122392.D	CAL BNA@120PPM	06/21/23 13:14
7	9M122391.D	CAL BNA@160PPM	06/21/23 12:51	8	9M122390.D	CAL BNA@196PPM	06/21/23 12:29
9	9M122395.D	CAL BNA@0.5PPM	06/21/23 14:21				

Compound	Col	Mr	Fit	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Avg	0.3045	0.3305	0.2758	0.2658	0.2983	0.2976	0.3205	0.3333	-----	0.303	7.49	0.996	0.999	8.0	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.3737	0.3998	0.3194	0.3524	0.3656	0.3727	0.3878	0.3954	-----	0.371	7.58	0.999	1.00	7.0	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.3977	0.4164	0.3489	0.3621	0.4023	0.3867	0.4137	0.4201	-----	0.394	7.61	0.998	0.999	6.6	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.4018	1.7766	1.3404	1.3201	1.3616	1.3520	1.4380	1.4795	-----	1.43	7.65	0.998	1.00	10		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.1636	1.4637	1.0899	1.1083	1.1459	1.1006	1.1663	1.1936	-----	1.18	7.77	0.999	0.999	10	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	0.9664	1.2933	0.9487	0.9318	0.9376	0.9213	0.9614	0.9628	-----	0.990	8.05	0.999	1.00	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	0.9664	1.2933	0.9487	0.9318	0.9376	0.9213	0.9614	0.9628	-----	0.990	8.05	0.999	1.00	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8312	1.0399	0.7417	0.7875	0.7891	0.7823	0.8239	0.8412	-----	0.830	7.83	0.998	0.999	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.3891	0.3839	0.3183	0.3628	0.3778	0.3770	0.3933	0.4021	-----	0.376	7.84	0.999	1.00	6.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4585	0.5231	0.4231	0.4288	0.4528	0.4453	0.4677	0.4758	-----	0.459	8.02	0.999	1.00	6.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.7230	2.0453	1.6001	1.6385	1.6498	1.6334	1.7361	1.7622	-----	1.72	8.12	0.999	0.999	8.2	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.2637	1.5362	1.1891	1.2070	1.2059	1.2186	1.2850	1.3249	-----	1.28	7.98	0.998	1.00	8.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.2831	0.2854	0.2595	0.2666	0.2778	0.2733	0.2884	0.2925	-----	0.278	8.04	0.999	1.00	4.1	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.2250	1.5796	1.1326	1.1327	1.1719	1.1729	1.2069	1.2538	-----	1.23	8.28	0.998	1.00	12	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3077	0.3012	0.2601	0.2867	0.2990	0.2884	0.3017	0.2943	-----	0.292	8.19	0.999	0.999	5.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1012	-----	0.0673	0.0714	0.1167	0.1298	0.1492	0.1537	-----	0.113	8.28	0.991	0.999	31	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.6454	2.1240	1.5857	1.5694	1.5994	1.5788	1.6617	1.6948	2.4880	1.77	8.43	0.999	1.00	18	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Avg	0.3655	0.3082	0.2874	0.3207	0.3623	0.3673	0.4028	0.4043	-----	0.352	8.40	0.997	0.999	12	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Avg	0.2288	0.2032	0.2033	0.1710	0.2279	0.2126	0.2399	0.2450	-----	0.217	8.31	0.995	0.998	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3398	0.3375	0.3067	0.3192	0.3347	0.3403	0.3605	0.3655	-----	0.338	8.53	0.998	1.00	5.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.3527	1.6130	1.2992	1.2808	1.3083	1.2957	1.3793	1.3992	-----	1.37	8.75	0.998	0.999	7.9	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.6495	0.7644	0.5968	0.6208	0.6329	0.6323	0.6711	0.6870	-----	0.657	8.74	0.998	1.00	7.9	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.2265	1.5554	1.1826	1.1794	1.1987	1.1997	1.2723	1.2893	-----	1.26	8.62	0.998	1.00	9.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.3418	0.2988	0.2765	0.3169	0.3399	0.3343	0.3556	0.3615	-----	0.328	8.75	0.998	1.00	8.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.3583	0.3987	0.3333	0.3289	0.3590	0.3538	0.3813	0.3837	-----	0.362	9.38	0.998	0.999	6.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.0891	-----	0.0597	0.0655	0.0929	0.1025	0.1108	0.1127	-----	0.0905	8.78	0.996	0.999	23	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6240	0.7398	0.5848	0.6160	0.5950	0.6086	0.6368	0.6352	-----	0.630	8.85	0.999	1.00	7.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Avg	0.0998	0.0952	0.0894	0.0962	0.0984	0.1019	0.1085	0.1097	-----	0.0999	8.98	0.998	1.00	6.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.6950	0.8490	0.6784	0.6658	0.7209	0.6631	0.6953	0.7571	-----	0.716	8.90	0.997	0.998	8.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2155	0.2517	0.2062	0.1957	0.2041	0.2096	0.2233	0.2236	-----	0.216	9.23	0.998	0.999	8.0	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2340	0.2918	0.2306	0.2155	0.2170	0.2250	0.2371	0.2355	-----	0.236	9.30	0.999	0.999	10	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.3971	0.4374	0.3436	0.3589	0.3820	0.3907	0.4081	0.4116	-----	0.391	9.57	0.999	1.00	7.7	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Avg	0.1370	-----	0.1056	0.1137	0.1354	0.1446	0.1511	0.1559	-----	0.135	9.49	0.998	1.00	14	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.0489	1.3363	1.0050	1.0059	1.0099	1.0247	1.0753	1.0536	-----	1.07	9.73	0.999	0.999	10	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.0981	1.3187	1.0046	1.0339	1.0307	1.0548	1.1210	1.0848	-----	1.09	9.79	0.999	0.999	9.0	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	1.0189	1.2319	0.9508	0.9770	0.9641	0.9816	1.0381	1.0296	-----	1.02	9.95	0.999	0.999	8.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Avg	1.2021	1.3851	1.1084	1.1241	1.1498	1.1993	1.2525	1.2602	1.5535	1.25	10.34	0.999	1.00	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.1967	1.3935	1.0843	1.1419	1.1618	1.1885	1.2517	1.2503	-----	1.21	11.06	0.999	1.00	7.7	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.3293	1.6154	1.1918	1.2702	1.2705	1.2992	1.3472	1.3926	-----	1.34	11.32	0.998	1.00	9.4	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Qua	0.5641	0.2727	0.3602	0.4870	0.5312	0.5330	0.5109	0.5312	-----	0.474	11.21	0.999	0.999	22		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.7731	0.9583	0.6859	0.7473	0.7351	0.7628	0.7880	0.8399	-----	0.786	11.51	0.996	0.999	10		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Avg Rsd: 9.769

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note:

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form 6
Initial Calibration

Method: EPA 8270E

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M122396.D	CAL BNA@50PPM	06/21/23 14:44	2	9M122389.D	CAL BNA@2PPM	06/21/23 12:06
3	9M122388.D	CAL BNA@10PPM	06/21/23 11:44	4	9M122394.D	CAL BNA@20PPM	06/21/23 13:59
5	9M122393.D	CAL BNA@80PPM	06/21/23 13:36	6	9M122392.D	CAL BNA@120PPM	06/21/23 13:14
7	9M122391.D	CAL BNA@160PPM	06/21/23 12:51	8	9M122390.D	CAL BNA@196PPM	06/21/23 12:29
9	9M122395.D	CAL BNA@0.5PPM	06/21/23 14:21				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2718	0.3239	0.2389	0.2539	0.2574	0.2687	0.2834	0.2939	-----	0.274	11.45	0.997	1.00	9.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.5179	0.5542	0.4644	0.5009	0.4970	0.5179	0.5281	0.5426	-----	0.515	11.84	0.999	1.00	5.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Avg	0.5696	0.5911	0.4899	0.5377	0.5473	0.5753	0.5968	0.6192	-----	0.566	12.10	0.998	1.00	7.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.3979	0.3593	0.3319	0.3514	0.3868	0.4060	0.4236	0.4311	-----	0.386	12.20	0.998	1.00	9.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Avg	0.3805	0.4086	0.3443	0.3698	0.3832	0.4034	0.4213	0.4052	-----	0.390	12.71	0.999	0.999	6.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.2640	1.5533	1.1394	1.2293	1.1939	1.2466	1.2603	1.3453	-----	1.28	12.74	0.997	0.999	9.8	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.1983	1.4571	1.1158	1.1382	1.1236	1.1516	1.1636	1.1524	-----	1.19	12.78	1.00	1.00	9.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Avg	0.8250	0.8440	0.7093	0.7701	0.7671	0.7853	0.8038	0.8324	-----	0.792	12.80	0.999	0.999	5.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Avg	1.3802	1.2494	1.0828	1.2361	1.3250	1.3861	1.4184	1.4684	-----	1.32	13.54	0.998	1.00	9.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.2205	1.4257	1.1094	1.1798	1.2250	1.2819	1.2883	1.3131	-----	1.26	13.95	0.999	1.00	7.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.2440	1.3778	1.0775	1.1485	1.1335	1.1226	1.1503	1.2154	-----	1.18	13.98	0.997	0.998	8.0	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.0983	1.1536	0.9436	1.0017	1.0477	1.0742	1.1180	1.1435	-----	1.07	14.31	0.999	1.00	6.7	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.4030	1.4329	1.1955	1.2668	1.3187	1.3804	1.4349	1.4952	-----	1.37	15.67	0.997	1.00	7.2	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.1105	1.1451	0.9494	1.0132	1.0477	1.0765	1.1261	1.1601	-----	1.08	15.69	0.998	1.00	6.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	1.1257	1.3224	0.9834	1.0495	1.0738	1.1250	1.1372	1.1797	-----	1.12	16.05	0.999	1.00	8.9	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 9.769
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122396.D Sam Mult : 1 Vial# : 10 Qt On : 06/21/23 15:01
Acq On : 06/21/23 14:44 Misc : A,BNA Qt Upd On: 06/21/23 14:36

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.578	96	28755	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.813	152	53960	40.00	ng	0.00
31) Naphthalene-d8	6.819	136	196166	40.00	ng	0.00
50) Acenaphthene-d10	8.248	164	103536	40.00	ng	0.00
77) Phenanthrene-d10	9.707	188	187463	40.00	ng	0.00
91) Chrysene-d12	12.754	240	176141	40.00	ng	0.00
103) Perylene-d12	14.366	264	180071	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.607	112	82682	48.90	ng	0.00
Spiked Amount 100.000			Recovery = 48.90%			
16) Phenol-d5	5.490	99	98769	45.08	ng	0.00
Spiked Amount 100.000			Recovery = 45.08%			
32) Nitrobenzene-d5	6.260	128	19378	23.42	ng	0.00
Spiked Amount 50.000			Recovery = 46.84%			
55) 2-Fluorobiphenyl	7.654	172	90715	25.64	ng	0.00
Spiked Amount 50.000			Recovery = 51.28%			
80) 2,4,6-Tribromophenol	8.984	330	23391	55.61	ng	0.00
Spiked Amount 100.000			Recovery = 55.61%			
94) Terphenyl-d14	11.507	244	85111	22.73	ng	0.00
Spiked Amount 50.000			Recovery = 45.46%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.613	88	34548	48.7585	ng	82
9) Pyridine	3.066	79	69864	46.1014	ng	80
10) N-Nitrosodimethylamine	3.002	74	56007	48.8335	ng	85
12) Benzaldehyde	5.437	77	71769	45.2764	ng	99
13) Aniline	5.531	93	113994	43.6876	ng	93
14) Pentachloroethane	5.572	117	32835	50.7556	ng	80
15) bis(2-Chloroethyl)ether	5.590	93	85126	47.2638	ng	86
17) Phenol	5.501	94	116558	46.0831	ng	83
18) 2-Chlorophenol	5.631	128	89188	50.0267	ng	80
19) N-Decane	5.678	57	106716	66.8760	ng	73
20) 1,3-Dichlorobenzene	5.766	146	100533	52.1457	ng	98
22) 1,4-Dichlorobenzene	5.825	146	100269	45.5860	ng	98
23) 1,2-Dichlorobenzene	5.949	146	93913	46.4296	ng	97
24) Benzyl alcohol	5.919	108	57196	41.1369	ng	72
25) bis(2-chloroisopropyl)...	6.037	45	128047	69.3108	ng	99
26) 2-Methylphenol	6.007	108	77818	41.2645	ng	100
27) Acetophenone	6.137	105	112331	43.1624	ng	76
28) Hexachloroethane	6.225	117	37367	42.4248	ng	82
29) N-Nitroso-di-n-propyla...	6.137	70	60358	40.0366	ng	89
30) 3&4-Methylphenol	6.131	108	81916	41.1519	ng	96
33) Nitrobenzene	6.278	77	83431	37.9071	ng	76
34) Isophorone	6.460	82	157221	40.0809	ng	86
35) 2-Nitrophenol	6.525	139	43084	42.9154	ng	82
36) 2,4-Dimethylphenol	6.548	107	80110	40.2486	ng	89
37) Benzoic Acid	6.601	105	46757m	45.2310	ng	
38) bis(2-Chloroethoxy)met...	6.625	93	95360	42.8841	ng	98
39) 2,4-Dichlorophenol	6.701	162	70607	44.7344	ng	87
40) 1,2,4-Trichlorobenzene	6.772	180	76982	42.6825	ng	97
41) Naphthalene	6.837	128	258598	45.5046	ng	98
42) 4-Chloroaniline	6.866	127	87828m	45.4868	ng	
43) Hexachlorobutadiene	6.925	225	43387	41.8637	ng	99
44) Caprolactam	7.137	113	24528	43.5819	ng	69
45) 4-Chloro-3-methylphenol	7.231	107	67390	39.0513	ng	96
46) 2-Methylnaphthalene	7.372	142	168196	46.2889	ng	97
47) 1-Methylnaphthalene	7.448	142	159990	47.7058	ng	100
48) Methylnaphthalenes (To...	7.448	142	322961m	92.1059	ng	
49) 1,1'-Biphenyl	7.743	154	209095	46.6962	ng	94
51) 1,2,4,5-Tetrachloroben...	7.501	216	76612	49.9199	ng	99
52) Hexachlorocyclopentadiene	7.490	237	39414	60.6402	ng	98
53) 2,4,6-Trichlorophenol	7.584	196	48367	47.9484	ng	99
54) 2,4,5-Trichlorophenol	7.613	196	51471m	49.1037	ng	
56) 2-Chloronaphthalene	7.766	162	150594	49.0677	ng	91
57) 1,4-Dimethylnaphthalene	8.048	156	125074	49.3158	ng	87
58) Dimethylnaphthalenes (...	8.048	156	125074	49.3158	ng	87
59) Diphenyl Ether	7.831	170	107578	51.2908	ng	73
60) 2-Nitroaniline	7.837	65	50357	43.4678	ng	66
61) Coumarin	8.025	146	59341	50.9967	ng	91
62) Acenaphthylene	8.125	152	222997	52.2137	ng	98
63) Dimethylphthalate	7.984	163	163559	47.6731	ng	98
64) 2,6-Dinitrotoluene	8.042	165	36639	47.3372	ng	62
65) Acenaphthene	8.278	153	158542	51.5178	ng	96

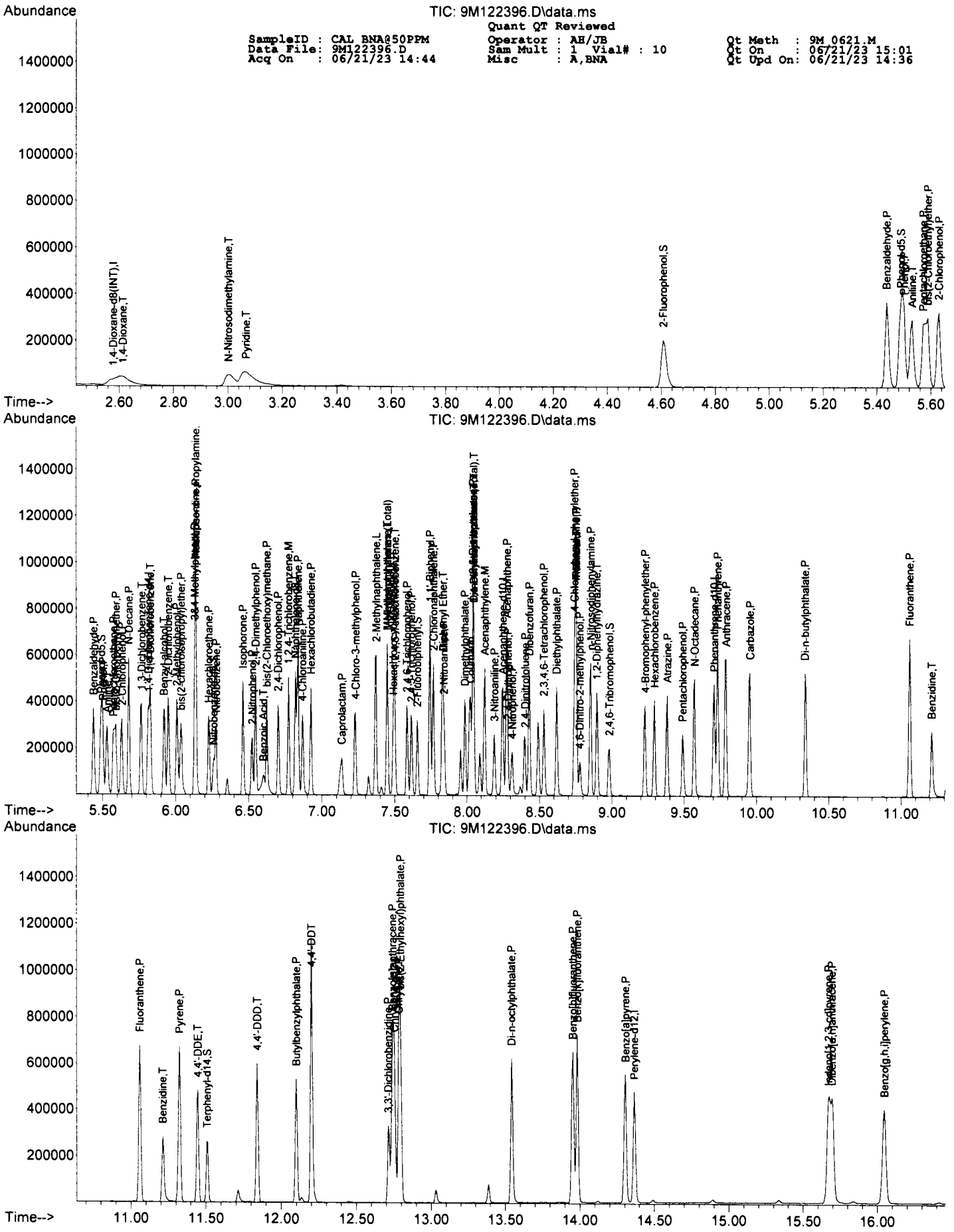
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122396.D Sam Mult : 1 Vial# : 10 Qt On : 06/21/23 15:01
Acq On : 06/21/23 14:44 Misc : A,BNA Qt Upd On: 06/21/23 14:36

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.190	138	39830	48.6664	ng	75
67)	2,4-Dinitrophenol	8.284	184	13102	34.4559	ng	47
68)	Dibenzofuran	8.431	168	212956	48.5986	ng	83
69)	2,4-Dinitrotoluene	8.401	165	47314	45.5017	ng	57
70)	4-Nitrophenol	8.313	65	29615	40.8521	ng	93
71)	2,3,4,6-Tetrachlorophenol	8.531	232	43982	48.7914	ng	81
72)	Fluorene	8.754	166	175073	50.2173	ng	98
73)	4-Chlorophenyl-phenyle...	8.742	204	84062	45.1091	ng	81
74)	Diethylphthalate	8.619	149	158742	48.3014	ng	97
75)	4-Nitroaniline	8.754	138	44243	50.5821	ng	70
76)	Atrazine	9.384	200	46383	45.0961	ng	93
78)	4,6-Dinitro-2-methylph...	8.778	198	20889	35.5828	ng	65
79)	n-Nitrosodiphenylamine	8.854	169	146233	47.9512	ng	97
81)	1,2-Diphenylhydrazine	8.895	77	162876	40.1078	ng	85
82)	4-Bromophenyl-phenylether	9.231	248	50503	49.3258	ng	77
83)	Hexachlorobenzene	9.295	284	54835	54.6954	ng	59
84)	N-Octadecane	9.572	57	93064	62.5807	ng	91
85)	Pentachlorophenol	9.489	266	32116	58.6518	ng	99
86)	Phenanthrene	9.731	178	245792	47.0739	ng	99
87)	Anthracene	9.789	178	257329	48.9856	ng	100
88)	Carbazole	9.954	167	238777	50.8935	ng	94
89)	Di-n-butylphthalate	10.336	149	281699	51.2904	ng	97
90)	Fluoranthene	11.060	202	280430	47.7567	ng	93
92)	Pyrene	11.325	202	292683	43.3525	ng	90
93)	Benzidine	11.213	184	124211	41.8965	ng	88
95)	4,4'-DDE	11.448	246	59849	44.1559	ng	93
96)	4,4'-DDD	11.842	235	114042	43.1734	ng	95
97)	Butylbenzylphthalate	12.101	149	125420	44.5603	ng	71
98)	4,4'-DDT	12.201	235	87627	42.1110	ng	97
99)	3,3'-Dichlorobenzidine	12.713	252	83784	44.4468	ng	97
100)	Benzo[a]anthracene	12.742	228	278316	46.1546	ng	99
101)	Chrysene	12.783	228	263843	46.9906	ng	100
102)	bis(2-Ethylhexyl)phtha...	12.795	149	181665	49.0087	ng	95
104)	Di-n-octylphthalate	13.542	149	310687	42.0214	ng	99
105)	Benzo[b]fluoranthene	13.954	252	274737	43.3684	ng	97
106)	Benzo[k]fluoranthene	13.983	252	280027m	47.4175	ng	
107)	Benzo[a]pyrene	14.307	252	247228	45.5624	ng	91
108)	Indeno[1,2,3-cd]pyrene	15.671	276	315803	56.2319	ng	82
109)	Dibenzo[a,h]anthracene	15.695	278	249963	57.4826	ng	91
110)	Benzo[g,h,i]perylene	16.048	276	253402	55.1412	ng	76

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M122396.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@50PPM
Data File: 9M122396.D
Acq On : 06/21/23 14:44
Operator : AH/JB
Sam Mult : 1 Vial# : 10
Misc : A,BNA
Qt Meth : 9M_0621.M
Qt On : 06/21/23 15:01
Qt Upd On: 06/21/23 14:36
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
Time-->
Abundance
TIC: 9M122396.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Methylnaphthalene,L
Isophorone,P
2-Nitrophenol,P
2,4-Dimethylphenol,P
Benzoic Acid,T
bis(2-Chloroethoxy)methane,P
2,4-Dichlorophenol,P
1,2,4-Trichlorobenzene,M
Naphthalene,P
4-Chloroaniline,P
Hexachlorobutadiene,P
2-Chloronaphthalene,P
2-Fluorobiphenyl,S
2-Nitroaniline,P
Dimethylphthalate,P
Acenaphthylene,M
3-Nitroaniline,P
Acenaphthene,P
2,4-Dinitrophenol,P
Dibenzofuran,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Chlorophenyl-phenylether,P
4,6-Dinitro-2-methylphenol,P
4-Nitrophenol,P
1,2-Diphenylhydrazine,T
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Time-->
Abundance
TIC: 9M122396.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
3,3'-Dichlorobenzidine,P
Di-n-octylphthalate,P
Benzo[b]fluoranthene,P
Benzo[k]fluoranthene,P
Benzo[a]pyrene,P
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,P
Dibenz[a,h]anthracene,P
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@2PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122389.D Sam Mult : 1 Vial# : 3 Qt On : 06/21/23 12:27
Acq On : 06/21/23 12:06 Misc : A,BNA Qt Upd On: 06/20/23 18:32

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.578	96	24343	40.00	ng	-0.04
21) 1,4-Dichlorobenzene-d4	5.813	152	47229	40.00	ng	-0.02
31) Naphthalene-d8	6.819	136	171985	40.00	ng	-0.02
50) Acenaphthene-d10	8.242	164	94085	40.00	ng	-0.03
77) Phenanthrene-d10	9.707	188	169314	40.00	ng	-0.03
91) Chrysene-d12	12.754	240	157359	40.00	ng	-0.04
103) Perylene-d12	14.366	264	162075	40.00	ng	-0.05
System Monitoring Compounds						
11) 2-Fluorophenol	4.607	112	3405m	2.38	ng	-0.03
Spiked Amount 100.000			Recovery = 2.38%			
16) Phenol-d5	5.484	99	4204	2.27	ng	-0.04
Spiked Amount 100.000			Recovery = 2.27%			
32) Nitrobenzene-d5	6.260	128	998	1.38	ng	-0.02
Spiked Amount 50.000			Recovery = 2.76%			
55) 2-Fluorobiphenyl	7.654	172	4179	1.30	ng	-0.03
Spiked Amount 50.000			Recovery = 2.60%			
80) 2,4,6-Tribromophenol	8.978	330	806	2.12	ng	-0.04
Spiked Amount 100.000			Recovery = 2.12%			
94) Terphenyl-d14	11.507	244	3770	1.13	ng	-0.03
Spiked Amount 50.000			Recovery = 2.26%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.608	88	1733	2.8891	ng	94
9) Pyridine	3.090	79	2576	2.0079	ng	79
10) N-Nitrosodimethylamine	3.019	74	2134	2.1979	ng	68
12) Benzaldehyde	5.437	77	3541m	2.6388	ng	
13) Aniline	5.531	93	4769	2.1590	ng	86
14) Pentachloroethane	5.572	117	1401	2.5581	ng	90
15) bis(2-Chloroethyl)ether	5.590	93	3552m	2.3296	ng	
17) Phenol	5.496	94	4821	2.2515	ng	90
18) 2-Chlorophenol	5.625	128	4080	2.7033	ng	77
19) N-Decane	5.678	57	4646	3.4392	ng	75
20) 1,3-Dichlorobenzene	5.760	146	4323	2.6487	ng	96
22) 1,4-Dichlorobenzene	5.825	146	4628	2.4039	ng	97
23) 1,2-Dichlorobenzene	5.948	146	4308	2.4334	ng	95
24) Benzyl alcohol	5.919	108	2259	1.8563	ng	85
25) bis(2-chloroisopropyl)...	6.037	45	5560	3.4385	ng	95
26) 2-Methylphenol	6.007	108	3254	1.9714	ng	90
27) Acetophenone	6.137	105	5141	2.2569	ng	66
28) Hexachloroethane	6.225	117	1686	2.1870	ng	82
29) N-Nitroso-di-n-propyla...	6.137	70	2675	2.0273	ng	98
30) 3&4-Methylphenol	6.131	108	3102	1.7804	ng	92
33) Nitrobenzene	6.272	77	3912	2.0273	ng	81
34) Isophorone	6.460	82	7045	2.0485	ng	82
35) 2-Nitrophenol	6.519	139	1580	1.7951	ng	77
36) 2,4-Dimethylphenol	6.548	107	3249	1.8619	ng	85
37) Benzoic Acid	0.000		0	N.D.		
38) bis(2-Chloroethoxy)met...	6.625	93	4271	2.1908	ng	95
39) 2,4-Dichlorophenol	6.701	162	2771	2.0025	ng	82
40) 1,2,4-Trichlorobenzene	6.772	180	3344	2.1148	ng	95
41) Naphthalene	6.837	128	11755	2.3593	ng	98
42) 4-Chloroaniline	6.866	127	3589m	2.1201	ng	
43) Hexachlorobutadiene	6.925	225	2015	2.2176	ng	96
44) Caprolactam	7.107	113	1005	2.0368	ng	70
45) 4-Chloro-3-methylphenol	7.225	107	2467	1.6306	ng	86
46) 2-Methylnaphthalene	7.366	142	7472	2.3455	ng	100
47) 1-Methylnaphthalene	7.448	142	6828	2.3222	ng	88
48) Methylnaphthalenes (To...	7.366	142	14300m	4.6516	ng	
49) 1,1'-Biphenyl	7.742	154	8932	2.2752	ng	94
51) 1,2,4,5-Tetrachloroben...	7.495	216	3595	2.5778	ng	92
52) Hexachlorocyclopentadiene	7.490	237	1555	2.7647	ng	98
53) 2,4,6-Trichlorophenol	7.584	196	1881m	2.0520	ng	
54) 2,4,5-Trichlorophenol	7.613	196	1959m	2.0566	ng	
56) 2-Chloronaphthalene	7.766	162	6886	2.4690	ng	91
57) 1,4-Dimethylnaphthalene	8.042	156	6084	2.6399	ng	88
58) Dimethylnaphthalenes (...	8.042	156	6084	2.6399	ng	88
59) Diphenyl Ether	7.825	170	4892	2.5667	ng	75
60) 2-Nitroaniline	7.837	65	1806	1.7155	ng	62
61) Coumarin	8.019	146	2461	2.3274	ng	91
62) Acenaphthylene	8.119	152	9622	2.4793	ng	95
63) Dimethylphthalate	7.984	163	7227	2.3181	ng	98
64) 2,6-Dinitrotoluene	8.037	165	1343	1.9094	ng	62
65) Acenaphthene	8.272	153	7431	2.6572	ng	93

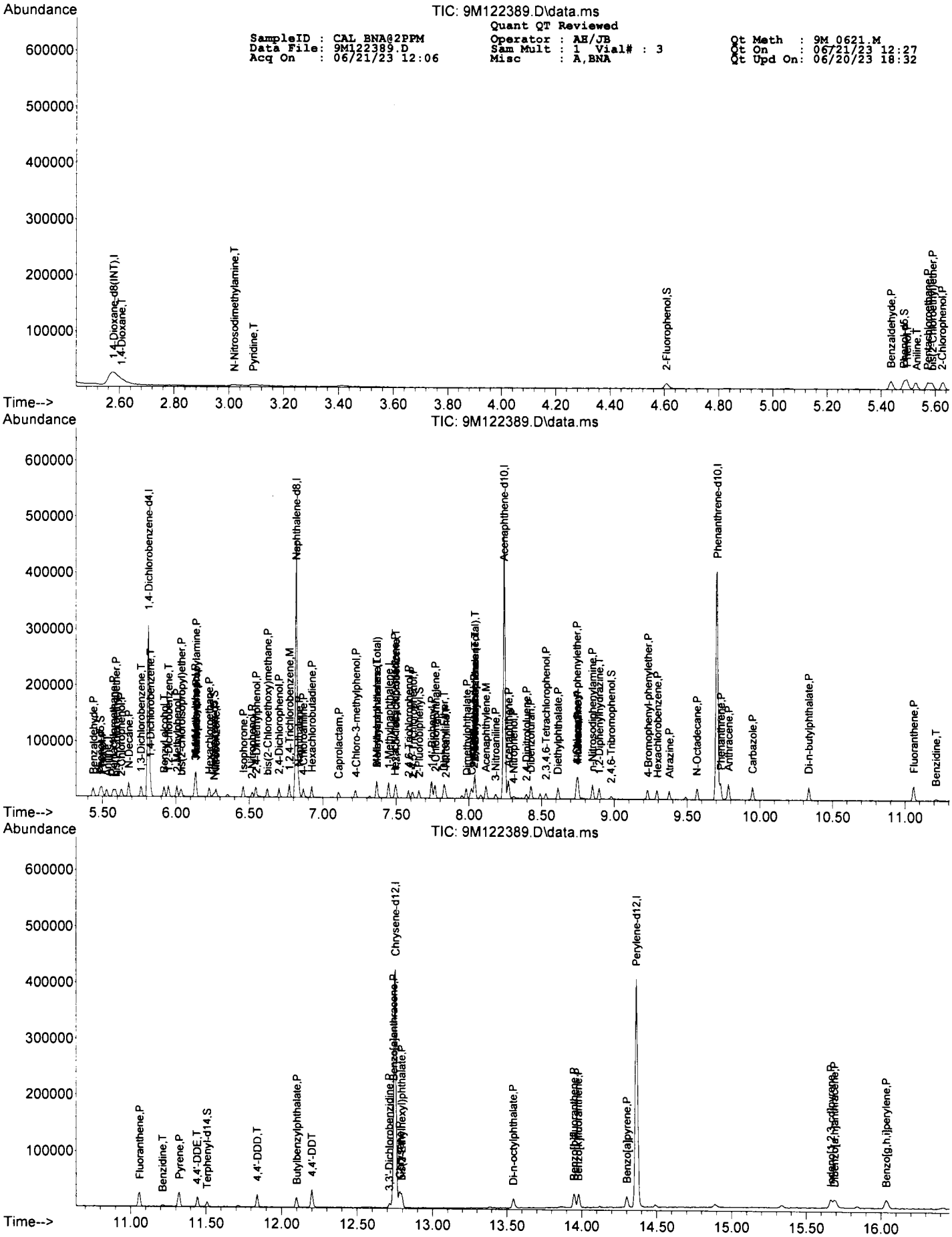
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@2PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122389.D Sam Mult : 1 Vial# : 3 Qt On : 06/21/23 12:27
Acq On : 06/21/23 12:06 Misc : A,BNA Qt Upd On: 06/20/23 18:32

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.184	138	1417	1.9053	ng	75
67)	2,4-Dinitrophenol	0.000		0	N.D.		
68)	Dibenzofuran	8.425	168	9992	2.5093	ng	81
69)	2,4-Dinitrotoluene	8.395	165	1450	1.5345	ng	65
70)	4-Nitrophenol	8.307	65	956	1.4512	ng	91
71)	2,3,4,6-Tetrachlorophenol	8.531	232	1588	1.9386	ng	76
72)	Fluorene	8.748	166	7588	2.3951	ng	95
73)	4-Chlorophenyl-phenyle...	8.742	204	3596	2.1235	ng	84
74)	Diethylphthalate	8.613	149	7317	2.4500	ng	99
75)	4-Nitroaniline	8.748	138	1406	1.7689	ng	67
76)	Atrazine	9.378	200	1876	2.0072	ng	95
78)	4,6-Dinitro-2-methylph...	0.000		0	N.D.		
79)	n-Nitrosodiphenylamine	8.848	169	6263	2.2738	ng	91
81)	1,2-Diphenylhydrazine	8.895	77	7188	1.9598	ng	81
82)	4-Bromophenyl-phenylether	9.231	248	2131	2.3044	ng	73
83)	Hexachlorobenzene	9.295	284	2471	2.7289	ng	61
84)	N-Octadecane	9.566	57	3703	2.7570	ng	90
85)	Pentachlorophenol	0.000		0	N.D. d		
86)	Phenanthrene	9.731	178	11313	2.3989	ng	97
87)	Anthracene	9.784	178	11164	2.3530	ng	96
88)	Carbazole	9.948	167	10429	2.4611	ng	98
89)	Di-n-butylphthalate	10.336	149	11726	2.3639	ng	95
90)	Fluoranthene	11.060	202	11797	2.2244	ng	92
92)	Pyrene	11.325	202	12710	2.1073	ng	91
93)	Benzidine	11.213	184	2146	0.8102	ng	97
95)	4,4'-DDE	11.442	246	2549	2.1051	ng	94
96)	4,4'-DDD	11.842	235	4361	1.8480	ng	95
97)	Butylbenzylphthalate	12.101	149	4651	1.8497	ng	64
98)	4,4'-DDT	12.201	235	2827	1.5207	ng	98
99)	3,3'-Dichlorobenzidine	12.713	252	3215	1.9091	ng	87
100)	Benzo[a]anthracene	12.742	228	12222	2.2688	ng	98
101)	Chrysene	12.783	228	11465	2.2856	ng	95
102)	bis(2-Ethylhexyl)phtha...	12.795	149	6641	2.0054	ng	97
104)	Di-n-octylphthalate	13.542	149	10125	1.5215	ng	98
105)	Benzo[b]fluoranthene	13.948	252	11554m	2.0264	ng	
106)	Benzo[k]fluoranthene	13.977	252	11166m	2.1007	ng	
107)	Benzo[a]pyrene	14.301	252	9349	1.9143	ng	96
108)	Indeno[1,2,3-cd]pyrene	15.666	276	11612	2.2972	ng	83
109)	Dibenzo[a,h]anthracene	15.689	278	9280	2.3710	ng	86
110)	Benzo[g,h,i]perylene	16.036	276	10717	2.5910	ng	73

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M122389.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@2PPM
Data File: 9M122389.D
Acq On : 06/21/23 12:06
Operator : AE/JB
Sam Mult : 1 Vial# : 3
Misc : A,BNA
Qt Meth : 9M_0621.M
Qt On : 06/21/23 12:27
Qt Upd On: 06/20/23 18:32
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
Time-->
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Chrysene-d12,I
Perylene-d12,I
Fluoranthene,P
Benzidine,T
Pyrene,P
Butylbenzylphthalate,P
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Benzo[g,h,i]perylene,P

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@10PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122388.D Sam Mult : 1 Vial# : 2 Qt On : 06/21/23 12:11
Acq On : 06/21/23 11:44 Misc : A,BNA Qt Upd On: 06/20/23 18:32

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.578	96	22077	40.00	ng	-0.04
21) 1,4-Dichlorobenzene-d4	5.813	152	43453	40.00	ng	-0.02
31) Naphthalene-d8	6.819	136	157783	40.00	ng	-0.02
50) Acenaphthene-d10	8.242	164	84566	40.00	ng	-0.03
77) Phenanthrene-d10	9.707	188	150661	40.00	ng	-0.03
91) Chrysene-d12	12.754	240	142900	40.00	ng	-0.04
103) Perylene-d12	14.366	264	146108	40.00	ng	-0.05
System Monitoring Compounds						
11) 2-Fluorophenol	4.607	112	12043	9.28	ng	-0.03
Spiked Amount 100.000			Recovery = 9.28%			
16) Phenol-d5	5.484	99	14150	8.41	ng	-0.04
Spiked Amount 100.000			Recovery = 8.41%			
32) Nitrobenzene-d5	6.260	128	3058	4.60	ng	-0.02
Spiked Amount 50.000			Recovery = 9.20%			
55) 2-Fluorobiphenyl	7.654	172	14170	4.90	ng	-0.03
Spiked Amount 50.000			Recovery = 9.80%			
80) 2,4,6-Tribromophenol	8.978	330	3368	9.96	ng	-0.04
Spiked Amount 100.000			Recovery = 9.96%			
94) Terphenyl-d14	11.507	244	12252	4.03	ng	-0.03
Spiked Amount 50.000			Recovery = 8.06%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.619	88	5509	10.1268	ng	94
9) Pyridine	3.078	79	8889	7.6399	ng	85
10) N-Nitrosodimethylamine	3.007	74	7618	8.6515	ng	77
12) Benzaldehyde	5.437	77	11405	9.3714	ng	99
13) Aniline	5.531	93	15817	7.8954	ng	93
14) Pentachloroethane	5.572	117	4897	9.8594	ng	78
15) bis(2-Chloroethyl)ether	5.590	93	12241m	8.8523	ng	
17) Phenol	5.495	94	17253	8.8846	ng	87
18) 2-Chlorophenol	5.625	128	12926	9.4435	ng	82
19) N-Decane	5.678	57	15419	12.5855	ng	71
20) 1,3-Dichlorobenzene	5.760	146	15124	10.2176	ng	96
22) 1,4-Dichlorobenzene	5.825	146	15617	8.8169	ng	96
23) 1,2-Dichlorobenzene	5.948	146	14051	8.6264	ng	96
24) Benzyl alcohol	5.919	108	8503	7.5943	ng	70
25) bis(2-chloroisopropyl)...	6.037	45	19330	12.9932	ng	98
26) 2-Methylphenol	6.007	108	11779	7.7563	ng	97
27) Acetophenone	6.137	105	16708	7.9723	ng	68
28) Hexachloroethane	6.225	117	5585	7.8742	ng	78
29) N-Nitroso-di-n-propyla...	6.137	70	8989	7.4043	ng	88
30) 3&4-Methylphenol	6.131	108	11526	7.1904	ng	98
33) Nitrobenzene	6.272	77	12015	6.7870	ng	78
34) Isophorone	6.460	82	22976	7.2822	ng	81
35) 2-Nitrophenol	6.525	139	5934	7.3487	ng	81
36) 2,4-Dimethylphenol	6.548	107	11681	7.2964	ng	90
37) Benzoic Acid	6.572	105	4032	5.5254	ng	83
38) bis(2-Chloroethoxy)met...	6.625	93	14187	7.9320	ng	97
39) 2,4-Dichlorophenol	6.701	162	10121	7.9722	ng	82
40) 1,2,4-Trichlorobenzene	6.772	180	11784	8.1230	ng	94
41) Naphthalene	6.837	128	40444	8.8481	ng	98
42) 4-Chloroaniline	6.866	127	13296m	8.5612	ng	
43) Hexachlorobutadiene	6.925	225	6860	8.2294	ng	98
44) Caprolactam	7.113	113	3504	7.7406	ng	67
45) 4-Chloro-3-methylphenol	7.225	107	9272	6.6800	ng	90
46) 2-Methylnaphthalene	7.366	142	25401	8.6911	ng	98
47) 1-Methylnaphthalene	7.448	142	24320	9.0158	ng	93
48) Methylnaphthalenes (To...	7.366	142	49402m	17.5164	ng	
49) 1,1'-Biphenyl	7.742	154	31730	8.8099	ng	95
51) 1,2,4,5-Tetrachloroben...	7.501	216	11678	9.3162	ng	95
52) Hexachlorocyclopentadiene	7.489	237	5832	11.4500	ng	96
53) 2,4,6-Trichlorophenol	7.584	196	6754m	8.1975	ng	
54) 2,4,5-Trichlorophenol	7.613	196	7377m	8.6164	ng	
56) 2-Chloronaphthalene	7.766	162	23044	9.1927	ng	92
57) 1,4-Dimethylnaphthalene	8.042	156	20058	9.6828	ng	88
58) Dimethylnaphthalenes (...	8.042	156	20058	9.6828	ng	88
59) Diphenyl Ether	7.825	170	15681	9.1535	ng	79
60) 2-Nitroaniline	7.837	65	6730	7.1124	ng	47
61) Coumarin	8.019	146	8945	9.4116	ng	91
62) Acenaphthylene	8.119	152	33830	9.6980	ng	97
63) Dimethylphthalate	7.984	163	25141	8.9718	ng	98
64) 2,6-Dinitrotoluene	8.037	165	5488	8.6810	ng	66
65) Acenaphthene	8.272	153	23945	9.5263	ng	98

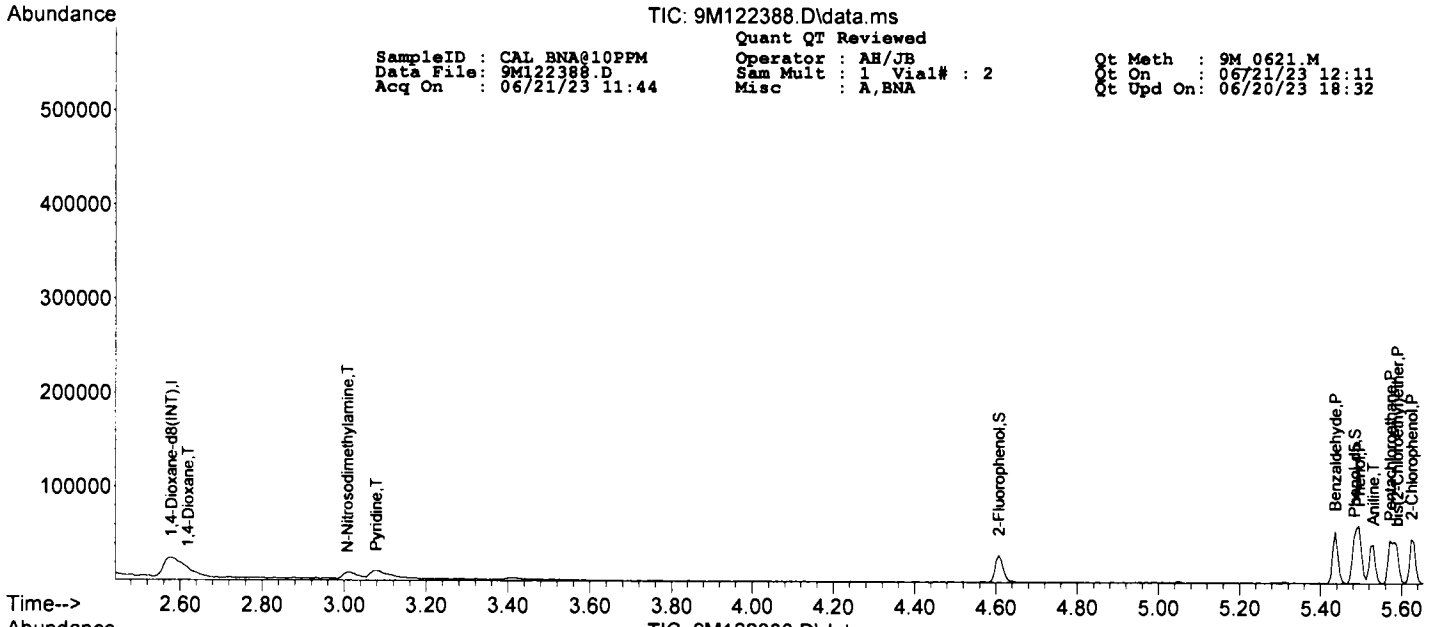
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@10PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122388.D Sam Mult : 1 Vial# : 2 Qt On : 06/21/23 12:11
Acq On : 06/21/23 11:44 Misc : A,BNA Qt Upd On: 06/20/23 18:32

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.184	138	5500	8.2277	ng	79
67)	2,4-Dinitrophenol	8.278	184	1424	4.8562	ng	83
68)	Dibenzofuran	8.425	168	33525	9.3670	ng	87
69)	2,4-Dinitrotoluene	8.395	165	6076	7.1540	ng	66
70)	4-Nitrophenol	8.307	65	4299	7.2605	ng	93
71)	2,3,4,6-Tetrachlorophenol	8.531	232	6484	8.8066	ng	80
72)	Fluorene	8.748	166	27468	9.6462	ng	96
73)	4-Chlorophenyl-phenyle...	8.742	204	12618	8.2899	ng	83
74)	Diethylphthalate	8.613	149	25003	9.3144	ng	97
75)	4-Nitroaniline	8.748	138	5847	8.1843	ng	73
76)	Atrazine	9.378	200	7047	8.3884	ng	88
78)	4,6-Dinitro-2-methylph...	8.778	198	2250	4.7689	ng	54
79)	n-Nitrosodiphenylamine	8.848	169	22028	8.9876	ng	97
81)	1,2-Diphenylhydrazine	8.895	77	25552	7.8291	ng	80
82)	4-Bromophenyl-phenylether	9.231	248	7770	9.4426	ng	78
83)	Hexachlorobenzene	9.295	284	8689	10.7839	ng	58
84)	N-Octadecane	9.572	57	12942	10.8287	ng	89
85)	Pentachlorophenol	9.489	266	3980	9.0439	ng	94
86)	Phenanthrene	9.731	178	37856	9.0212	ng	99
87)	Anthracene	9.783	178	37841	8.9631	ng	99
88)	Carbazole	9.948	167	35813	9.4979	ng	95
89)	Di-n-butylphthalate	10.336	149	41750	9.4585	ng	97
90)	Fluoranthene	11.060	202	40844	8.6547	ng	93
92)	Pyrene	11.325	202	42579	7.7739	ng	86
93)	Benzidine	11.213	184	12871	5.3513	ng	89
95)	4,4'-DDE	11.442	246	8535	7.7618	ng	95
96)	4,4'-DDD	11.842	235	16592	7.7424	ng	97
97)	Butylbenzylphthalate	12.101	149	17502	7.6647	ng	71
98)	4,4'-DDT	12.201	235	11858	7.0242	ng	97
99)	3,3'-Dichlorobenzidine	12.713	252	12301	8.0436	ng	96
100)	Benzo[a]anthracene	12.742	228	40705	8.3206	ng	97
101)	Chrysene	12.783	228	39863	8.7511	ng	98
102)	bis(2-Ethylhexyl)phtha...	12.795	149	25342	8.4270	ng	97
104)	Di-n-octylphthalate	13.542	149	39553	6.5932	ng	98
105)	Benzo[b]fluoranthene	13.948	252	40523m	7.8837	ng	
106)	Benzo[k]fluoranthene	13.977	252	39359m	8.2140	ng	
107)	Benzo[a]pyrene	14.301	252	34470	7.8293	ng	94
108)	Indeno[1,2,3-cd]pyrene	15.665	276	43670	9.5834	ng	78
109)	Dibenzo[a,h]anthracene	15.689	278	34679	9.8287	ng	91
110)	Benzo[g,h,i]perylene	16.036	276	35924	9.6343	ng	77

(#) = qualifier out of range (m) = manual integration (+) = signals summed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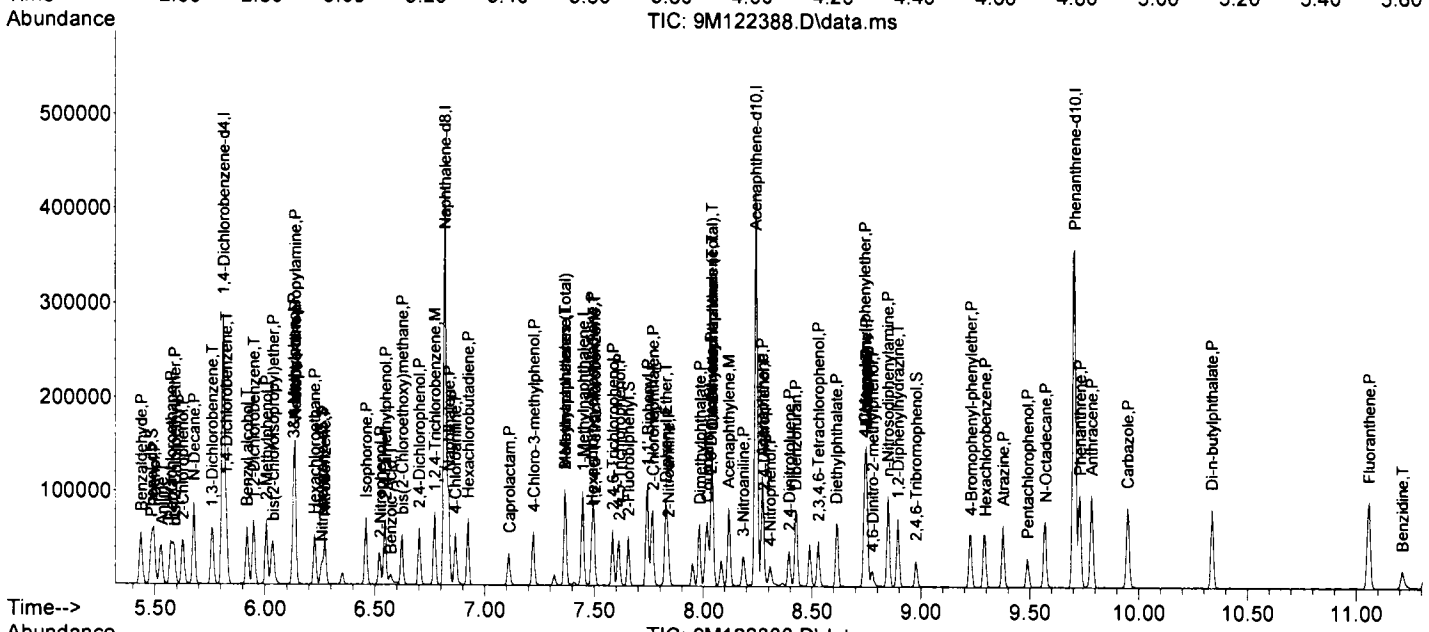
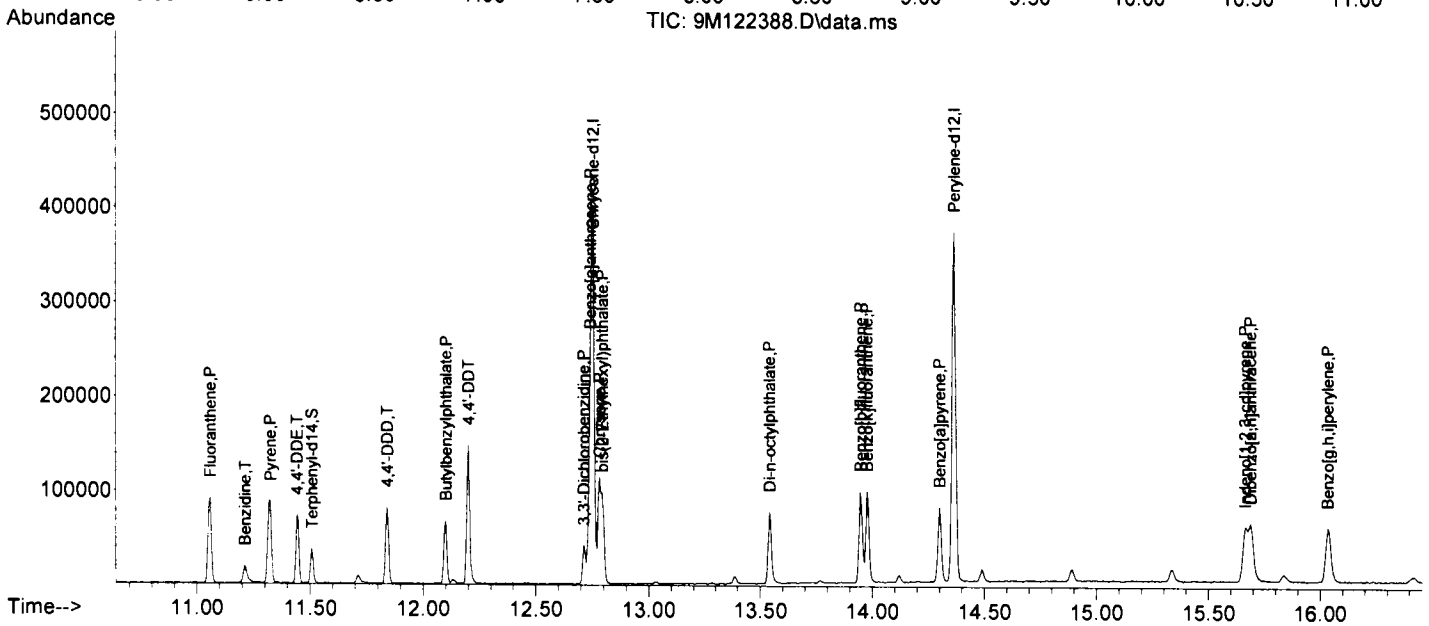
Quant QT Reviewed
SampleID : CAL BNA@10PPM
Data File: 9M122388.D
Acq On : 06/21/23 11:44
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 9M_0621.M
Qt On : 06/21/23 12:11
Qt Upd On: 06/20/23 18:32
500000
400000
300000
200000
100000
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Phenol-d5,S
Aniline,T
2-Chlorophenol,P
Time-->
2.60
2.80
3.00
3.20
3.40
3.60
3.80
4.00
4.20
4.40
4.60
4.80
5.00
5.20
5.40
5.60


Abundance
TIC: 9M122388.D\data.ms
500000
400000
300000
200000
100000
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Isophorone,P
Caprolactam,P
4-Chloro-3-methylphenol,P
Hexachlorobutadiene,P
Diethylphthalate,P
2,3,4,6-Tetrachlorophenol,P
Acenaphthylene,M
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Time-->
5.50
6.00
6.50
7.00
7.50
8.00
8.50
9.00
9.50
10.00
10.50
11.00


Abundance
TIC: 9M122388.D\data.ms
500000
400000
300000
200000
100000
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
3,3'-Dichlorobenzidine,P
Perylene-d12,I
Di-n-octylphthalate,P
Benzo(a)pyrene,P
Indeno(1,2,3-cd)pyrene,P
Benzo(g,h,i)perylene,P
Time-->
11.00
11.50
12.00
12.50
13.00
13.50
14.00
14.50
15.00
15.50
16.00

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@20PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122394.D Sam Mult : 1 Vial# : 8 Qt On : 06/21/23 14:36
Acq On : 06/21/23 13:59 Misc : A,BNA Qt Upd On: 06/21/23 14:36

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.572	96	27623	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.813	152	52672	40.00	ng	0.00
31) Naphthalene-d8	6.819	136	192098	40.00	ng	0.00
50) Acenaphthene-d10	8.242	164	105150	40.00	ng	0.00
77) Phenanthrene-d10	9.707	188	188928	40.00	ng	0.00
91) Chrysene-d12	12.754	240	172575	40.00	ng	0.00
103) Perylene-d12	14.366	264	177486	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.607	112	30649	18.87	ng	0.00
Spiked Amount 100.000			Recovery = 18.87%			
16) Phenol-d5	5.484	99	36340	17.26	ng	0.00
Spiked Amount 100.000			Recovery = 17.26%			
32) Nitrobenzene-d5	6.260	128	7162	8.84	ng	0.00
Spiked Amount 50.000			Recovery = 17.68%			
55) 2-Fluorobiphenyl	7.654	172	34702	9.66	ng	0.00
Spiked Amount 50.000			Recovery = 19.32%			
80) 2,4,6-Tribromophenol	8.984	330	9095	21.46	ng	0.00
Spiked Amount 100.000			Recovery = 21.46%			
94) Terphenyl-d14	11.507	244	32245	8.79	ng	0.00
Spiked Amount 50.000			Recovery = 17.58%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.608	88	13195	19.3856	ng	90
9) Pyridine	3.072	79	25591	17.5788	ng	79
10) N-Nitrosodimethylamine	3.008	74	19964	18.1203	ng	76
12) Benzaldehyde	5.437	77	26608	17.4739	ng	98
13) Aniline	5.531	93	41315	16.4826	ng	94
14) Pentachloroethane	5.572	117	11969	19.2596	ng	76
15) bis(2-Chloroethyl)ether	5.590	93	31927	18.4530	ng	90
17) Phenol	5.496	94	43275	17.8106	ng	86
18) 2-Chlorophenol	5.631	128	33980	19.8409	ng	79
19) N-Decane	5.678	57	39894	26.0250	ng	72
20) 1,3-Dichlorobenzene	5.766	146	37448	20.2200	ng	97
22) 1,4-Dichlorobenzene	5.825	146	37616	17.5198	ng	97
23) 1,2-Dichlorobenzene	5.949	146	35338	17.8980	ng	98
24) Benzyl alcohol	5.919	108	21320	15.7089	ng	72
25) bis(2-chloroisopropyl)...	6.037	45	48274	26.7693	ng	98
26) 2-Methylphenol	6.007	108	29585	16.0716	ng	98
27) Acetophenone	6.137	105	42985	16.9206	ng	69
28) Hexachloroethane	6.225	117	13688	15.9208	ng	89
29) N-Nitroso-di-n-propyla...	6.137	70	23200	15.7653	ng	91
30) 3&4-Methylphenol	6.131	108	30922	15.9141	ng	96
33) Nitrobenzene	6.272	77	31827	14.7669	ng	79
34) Isophorone	6.460	82	59054	15.3737	ng	82
35) 2-Nitrophenol	6.519	139	15934	16.2078	ng	90
36) 2,4-Dimethylphenol	6.548	107	29814	15.2963	ng	83
37) Benzoic Acid	6.584	105	15525m	16.8087	ng	
38) bis(2-Chloroethoxy)met...	6.625	93	35602	16.3495	ng	94
39) 2,4-Dichlorophenol	6.701	162	26503	17.1471	ng	85
40) 1,2,4-Trichlorobenzene	6.772	180	29809	16.8776	ng	97
41) Naphthalene	6.837	128	99641	17.9048	ng	98
42) 4-Chloroaniline	6.866	127	32919m	17.4100	ng	
43) Hexachlorobutadiene	6.925	225	17122	16.8707	ng	95
44) Caprolactam	7.119	113	9534	17.2990	ng	68
45) 4-Chloro-3-methylphenol	7.225	107	25309	14.9767	ng	97
46) 2-Methylnaphthalene	7.366	142	64390	18.0959	ng	97
47) 1-Methylnaphthalene	7.448	142	60342	18.3738	ng	98
48) Methylnaphthalenes (To...	7.366	142	123986m	36.1086	ng	
49) 1,1'-Biphenyl	7.743	154	78926	17.9994	ng	93
51) 1,2,4,5-Tetrachloroben...	7.501	216	30087	19.3036	ng	95
52) Hexachlorocyclopentadiene	7.490	237	13976	21.8719	ng	99
53) 2,4,6-Trichlorophenol	7.584	196	18530m	18.0877	ng	
54) 2,4,5-Trichlorophenol	7.613	196	19038	17.8836	ng	97
56) 2-Chloronaphthalene	7.766	162	58269	18.6942	ng	89
57) 1,4-Dimethylnaphthalene	8.043	156	48993	19.0211	ng	88
58) Dimethylnaphthalenes (...	8.043	156	48993	19.0211	ng	88
59) Diphenyl Ether	7.825	170	41403	19.4370	ng	77
60) 2-Nitroaniline	7.837	65	19077	16.2144	ng	56
61) Coumarin	8.019	146	22549	19.0808	ng	93
62) Acenaphthylene	8.119	152	86147	19.8613	ng	97
63) Dimethylphthalate	7.984	163	63462	18.2136	ng	98
64) 2,6-Dinitrotoluene	8.037	165	14020	17.8357	ng	64
65) Acenaphthene	8.272	153	59552	19.0542	ng	96

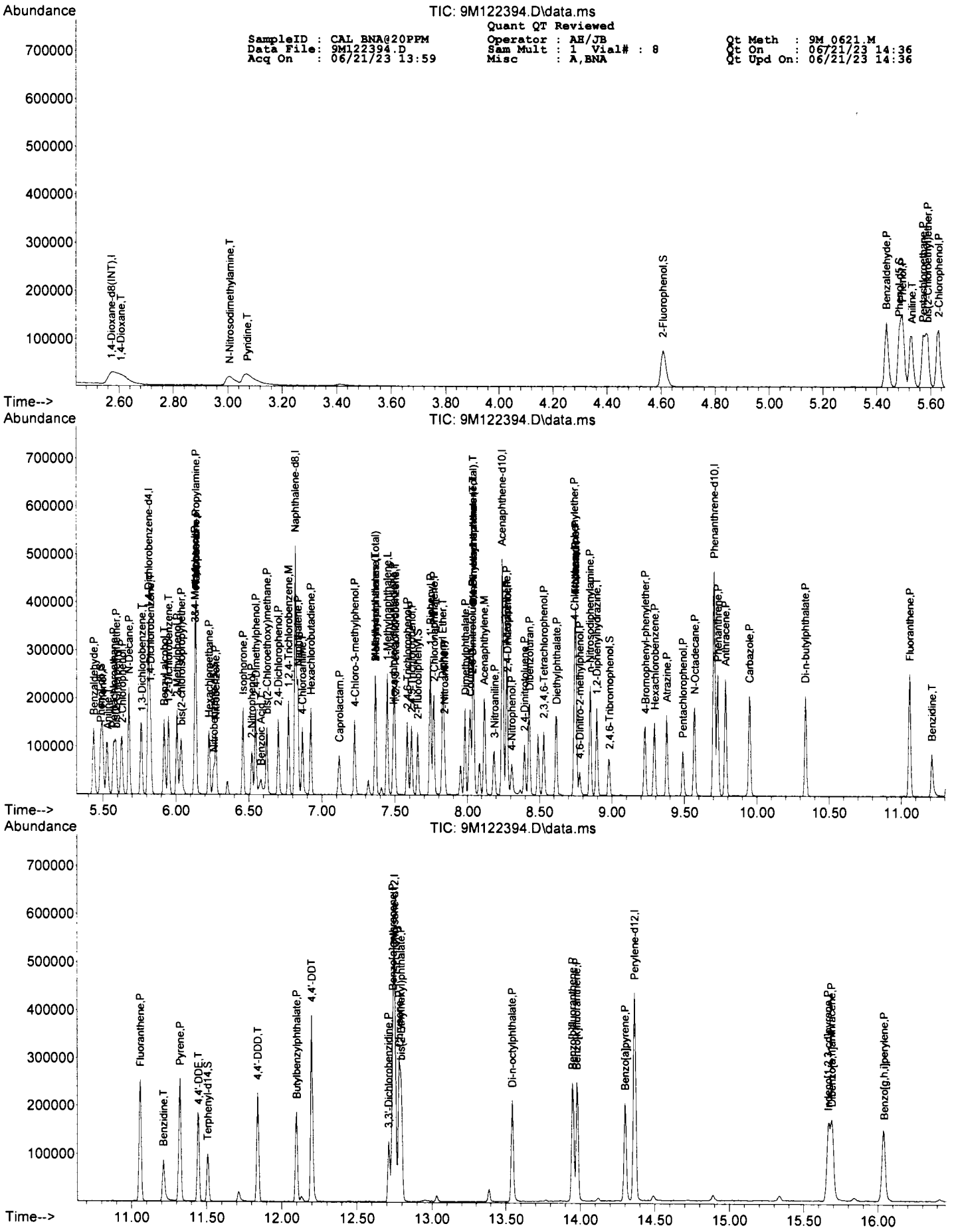
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@20PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122394.D Sam Mult : 1 Vial# : 8 Qt On : 06/21/23 14:36
Acq On : 06/21/23 13:59 Misc : A,BNA Qt Upd On: 06/21/23 14:36

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.190	138	15074	18.1355	ng	65
67)	2,4-Dinitrophenol	8.278	184	3758	10.1981	ng	88
68)	Dibenzofuran	8.431	168	82511	18.5408	ng	80
69)	2,4-Dinitrotoluene	8.395	165	16863	15.9682	ng	69
70)	4-Nitrophenol	8.307	65	8995	12.2176	ng	87
71)	2,3,4,6-Tetrachlorophenol	8.531	232	16783	18.3324	ng	81
72)	Fluorene	8.748	166	67340	19.0191	ng	100
73)	4-Chlorophenyl-phenyle...	8.742	204	32640	17.2463	ng	79
74)	Diethylphthalate	8.619	149	62010	18.5785	ng	96
75)	4-Nitroaniline	8.748	138	16662	18.7569	ng	68
76)	Atrazine	9.378	200	17292	16.5542	ng	95
78)	4,6-Dinitro-2-methylph...	8.778	198	6189	10.4607	ng	67
79)	n-Nitrosodiphenylamine	8.848	169	58195	18.9347	ng	99
81)	1,2-Diphenylhydrazine	8.895	77	62897	15.3681	ng	84
82)	4-Bromophenyl-phenylether	9.231	248	18487	17.9161	ng	80
83)	Hexachlorobenzene	9.295	284	20361	20.1517	ng	60
84)	N-Octadecane	9.572	57	33906	22.6232	ng	87
85)	Pentachlorophenol	9.489	266	10743	19.4673	ng	95
86)	Phenanthrene	9.731	178	95023	18.0576	ng	99
87)	Anthracene	9.784	178	97667	18.4479	ng	99
88)	Carbazole	9.948	167	92296	19.5197	ng	95
89)	Di-n-butylphthalate	10.336	149	106188	19.1843	ng	97
90)	Fluoranthene	11.060	202	107875	18.2285	ng	88
92)	Pyrene	11.325	202	109602	16.5698	ng	87
93)	Benzidine	11.213	184	42028	14.4690	ng	89
95)	4,4'-DDE	11.448	246	21908	16.4974	ng	92
96)	4,4'-DDD	11.842	235	43222	16.7009	ng	95
97)	Butylbenzylphthalate	12.101	149	46401	16.8264	ng	70
98)	4,4'-DDT	12.201	235	30328	14.8759	ng	97
99)	3,3'-Dichlorobenzidine	12.713	252	31910	17.2778	ng	97
100)	Benzo[a]anthracene	12.742	228	106081	17.9555	ng	99
101)	Chrysene	12.783	228	98217	17.8540	ng	100
102)	bis(2-Ethylhexyl)phtha...	12.795	149	66452	18.2975	ng	95
104)	Di-n-octylphthalate	13.542	149	109702	15.0537	ng	99
105)	Benzo[b]fluoranthene	13.948	252	104700	16.7681	ng	96
106)	Benzo[k]fluoranthene	13.977	252	101928	17.5110	ng	97
107)	Benzo[a]pyrene	14.301	252	88897	16.6217	ng	94
108)	Indeno[1,2,3-cd]pyrene	15.666	276	112425	20.3100	ng	81
109)	Dibenzo[a,h]anthracene	15.689	278	89918	20.9791	ng	91
110)	Benzo[g,h,i]perylene	16.042	276	93143	20.5635	ng	76

(#) = qualifier out of range (m) = manual integration (+) = signals summed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Quant QT Reviewed
SampleID : CAL BNA@20PPM
Data File: 9M122394.D
Acq On : 06/21/23 13:59
Operator : AE/JB
Sam Mult : 1 Vial# : 8
Misc : A,BNA
Qt Meth : 9M_0621.M
Qt On : 06/21/23 14:36
Qt Upd On: 06/21/23 14:36
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Phenol-d5,S
Aniline,T
2-Chlorophenol,P
Time-->
Abundance
TIC: 9M122394.D\data.ms
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Caprolactam,P
4-Chloro-3-methylphenol,P
Hexachlorobutadiene,P
Isophorone,P
Diethylphthalate,P
Fluoranthene,P
Benzidine,T
Time-->
Abundance
TIC: 9M122394.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Perylene-d12,I
Benzo(a)pyrene,P
Benzo(g,h,i)perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@80PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122393.D Sam Mult : 1 Vial# : 7 Qt On : 06/21/23 14:33
Acq On : 06/21/23 13:36 Misc : A,BNA Qt Upd On: 06/20/23 18:32

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.572	96	26575	40.00	ng	-0.04
21) 1,4-Dichlorobenzene-d4	5.813	152	48407	40.00	ng	-0.02
31) Naphthalene-d8	6.819	136	176975	40.00	ng	-0.02
50) Acenaphthene-d10	8.248	164	96419	40.00	ng	-0.02
77) Phenanthrene-d10	9.707	188	178707	40.00	ng	-0.03
91) Chrysene-d12	12.760	240	168368	40.00	ng	-0.03
103) Perylene-d12	14.365	264	173643	40.00	ng	-0.05
System Monitoring Compounds						
11) 2-Fluorophenol	4.613	112	117137	74.96	ng	-0.02
Spiked Amount 100.000			Recovery = 74.96%			
16) Phenol-d5	5.489	99	140941	69.60	ng	-0.03
Spiked Amount 100.000			Recovery = 69.60%			
32) Nitrobenzene-d5	6.260	128	28372	38.01	ng	-0.02
Spiked Amount 50.000			Recovery = 76.02%			
55) 2-Fluorobiphenyl	7.654	172	131290	39.84	ng	-0.03
Spiked Amount 50.000			Recovery = 79.68%			
80) 2,4,6-Tribromophenol	8.983	330	35182	87.75	ng	-0.03
Spiked Amount 100.000			Recovery = 87.75%			
94) Terphenyl-d14	11.513	244	123778	34.59	ng	-0.02
Spiked Amount 50.000			Recovery = 69.18%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.613	88	49511	75.6082	ng	87
9) Pyridine	3.060	79	104303	74.4727	ng	82
10) N-Nitrosodimethylamine	3.001	74	80709	76.1444	ng	81
12) Benzaldehyde	5.437	77	104309	71.2027	ng	97
13) Aniline	5.531	93	163308	67.7210	ng	94
14) Pentachloroethane	5.572	117	46267	77.3852	ng	77
15) bis(2-Chloroethyl)ether	5.589	93	117959m	70.8660	ng	
17) Phenol	5.501	94	166716	71.3209	ng	85
18) 2-Chlorophenol	5.631	128	128668	78.0920	ng	80
19) N-Decane	5.678	57	150699	102.1859	ng	72
20) 1,3-Dichlorobenzene	5.766	146	142984	80.2486	ng	96
22) 1,4-Dichlorobenzene	5.825	146	142427	72.1806	ng	97
23) 1,2-Dichlorobenzene	5.954	146	136088	74.9986	ng	99
24) Benzyl alcohol	5.925	108	82031	65.7670	ng	69
25) bis(2-chloroisopropyl)...	6.037	45	179202	108.1280	ng	100
26) 2-Methylphenol	6.013	108	112529	66.5157	ng	96
27) Acetophenone	6.142	105	159082	68.1383	ng	66
28) Hexachloroethane	6.225	117	52624	66.6007	ng	83
29) N-Nitroso-di-n-propyla...	6.142	70	86554	63.9991	ng	95
30) 3&4-Methylphenol	6.137	108	117359	65.7206	ng	99
33) Nitrobenzene	6.278	77	120156	60.5133	ng	76
34) Isophorone	6.460	82	223116	63.0478	ng	88
35) 2-Nitrophenol	6.525	139	64738	71.4773	ng	83
36) 2,4-Dimethylphenol	6.548	107	116983	65.1477	ng	89
37) Benzoic Acid	6.619	105	79640m	77.6401	ng	
38) bis(2-Chloroethoxy)met...	6.625	93	135915	67.7501	ng	97
39) 2,4-Dichlorophenol	6.707	162	100940	70.8874	ng	85
40) 1,2,4-Trichlorobenzene	6.772	180	111527	68.5414	ng	98
41) Naphthalene	6.836	128	367460	71.6725	ng	98
42) 4-Chloroaniline	6.866	127	126267m	72.4860	ng	
43) Hexachlorobutadiene	6.925	225	63101	67.4880	ng	97
44) Caprolactam	7.142	113	35761	70.4313	ng	68
45) 4-Chloro-3-methylphenol	7.231	107	98513	63.2770	ng	97
46) 2-Methylnaphthalene	7.372	142	242735	74.0467	ng	99
47) 1-Methylnaphthalene	7.448	142	223675	73.9278	ng	98
48) Methylnaphthalenes (To...	7.372	142	465494m	147.1509	ng	
49) 1,1'-Biphenyl	7.742	154	296509	73.3985	ng	94
51) 1,2,4,5-Tetrachloroben...	7.501	216	111702	78.1568	ng	99
52) Hexachlorocyclopentadiene	7.489	237	57530	92.6049	ng	99
53) 2,4,6-Trichlorophenol	7.589	196	70504	75.0530	ng	99
54) 2,4,5-Trichlorophenol	7.619	196	77580m	79.4750	ng	
56) 2-Chloronaphthalene	7.766	162	220973	77.3135	ng	91
57) 1,4-Dimethylnaphthalene	8.048	156	180810	76.5545	ng	85
58) Dimethylnaphthalenes (...	8.048	156	180810	76.5545	ng	85
59) Diphenyl Ether	7.831	170	152181	77.9121	ng	73
60) 2-Nitroaniline	7.842	65	72858	67.5327	ng	52
61) Coumarin	8.025	146	87319	80.5796	ng	95
62) Acenaphthylene	8.125	152	318157	79.9937	ng	98
63) Dimethylphthalate	7.989	163	232561	72.7888	ng	98
64) 2,6-Dinitrotoluene	8.042	165	53579	74.3332	ng	64
65) Acenaphthene	8.278	153	225995	78.8571	ng	97

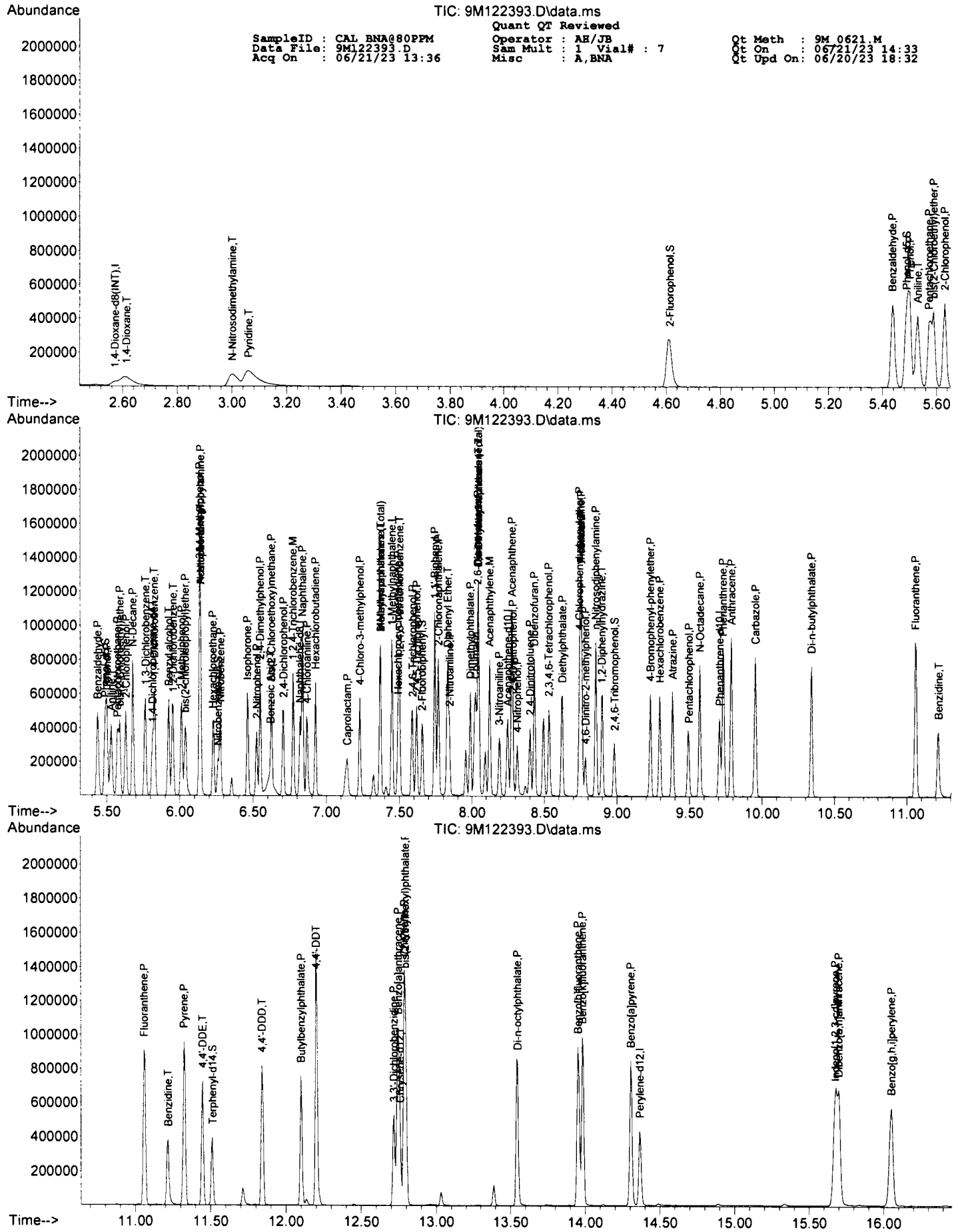
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@80PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122393.D Sam Mult : 1 Vial# : 7 Qt On : 06/21/23 14:33
Acq On : 06/21/23 13:36 Misc : A,BNA Qt Upd On: 06/20/23 18:32

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.189	138	57660	75.6523	ng	75
67)	2,4-Dinitrophenol	8.283	184	22521	60.6065	ng	50
68)	Dibenzofuran	8.430	168	308429	75.5819	ng	84
69)	2,4-Dinitrotoluene	8.401	165	69876	72.1597	ng	62
70)	4-Nitrophenol	8.313	65	43961	65.1177	ng	97
71)	2,3,4,6-Tetrachlorophenol	8.530	232	64548	76.8918	ng	82
72)	Fluorene	8.754	166	252289	77.7071	ng	97
73)	4-Chlorophenyl-phenyle...	8.742	204	122051	70.3290	ng	80
74)	Diethylphthalate	8.625	149	231165	75.5298	ng	96
75)	4-Nitroaniline	8.754	138	65558	80.4835	ng	69
76)	Atrazine	9.383	200	69234	72.2817	ng	96
78)	4,6-Dinitro-2-methylph...	8.783	198	33211	59.3442	ng	72
79)	n-Nitrosodiphenylamine	8.854	169	212672	73.1540	ng	97
81)	1,2-Diphenylhydrazine	8.895	77	257663	66.5576	ng	87
82)	4-Bromophenyl-phenylether	9.230	248	72978	74.7693	ng	82
83)	Hexachlorobenzene	9.295	284	77585	81.1792	ng	63
84)	N-Octadecane	9.572	57	136534	96.3105	ng	91
85)	Pentachlorophenol	9.495	266	48418	92.7557	ng	96
86)	Phenanthrene	9.730	178	360970	72.5200	ng	100
87)	Anthracene	9.789	178	368390	73.5634	ng	99
88)	Carbazole	9.954	167	344595	77.0465	ng	96
89)	Di-n-butylphthalate	10.342	149	410978	78.4953	ng	97
90)	Fluoranthene	11.060	202	415276	74.1858	ng	95
92)	Pyrene	11.324	202	427843	66.2982	ng	91
93)	Benzidine	11.219	184	178877	63.1209	ng	87
95)	4,4'-DDE	11.448	246	86675	66.9000	ng	93
96)	4,4'-DDD	11.842	235	167365	66.2853	ng	95
97)	Butylbenzylphthalate	12.101	149	184317	68.5090	ng	73
98)	4,4'-DDT	12.201	235	130249	65.4837	ng	98
99)	3,3'-Dichlorobenzidine	12.718	252	129039	71.6146	ng	95
100)	Benzo[a]anthracene	12.748	228	402056	69.7533	ng	99
101)	Chrysene	12.789	228	378383	70.5014	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.795	149	258318	72.9051	ng	95
104)	Di-n-octylphthalate	13.548	149	460172	64.5438	ng	100
105)	Benzo[b]fluoranthene	13.954	252	425424	69.6410	ng	96
106)	Benzo[k]fluoranthene	13.983	252	393677	69.1298	ng	98
107)	Benzo[a]pyrene	14.307	252	363882	69.5435	ng	93
108)	Indeno[1,2,3-cd]pyrene	15.677	276	457968	84.5645	ng	81
109)	Dibenzo[a,h]anthracene	15.701	278	363859	86.7721	ng	90
110)	Benzo[g,h,i]perylene	16.054	276	372934	84.1560	ng	76

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M122393.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@80PPM
Data File: 9M122393.D
Acq On : 06/21/23 13:36
Operator : AH/JB
Sam Mult : 1 Vial# : 7
Misc : A,BNA
Qt Meth : 9M_0621.M
Qt On : 06/21/23 14:33
Qt Upd On: 06/20/23 18:32
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Aniline,T
2-Chlorophenol,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@120PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122392.D Sam Mult : 1 Vial# : 6 Qt On : 06/21/23 13:31
Acq On : 06/21/23 13:14 Misc : A,BNA Qt Upd On: 06/20/23 18:32

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.572	96	25317	40.00	ng	-0.04
21) 1,4-Dichlorobenzene-d4	5.813	152	48274	40.00	ng	-0.02
31) Naphthalene-d8	6.819	136	171029	40.00	ng	-0.02
50) Acenaphthene-d10	8.248	164	92999	40.00	ng	-0.02
77) Phenanthrene-d10	9.707	188	169112	40.00	ng	-0.03
91) Chrysene-d12	12.760	240	156872	40.00	ng	-0.03
103) Perylene-d12	14.371	264	162796	40.00	ng	-0.04
System Monitoring Compounds						
11) 2-Fluorophenol	4.613	112	171382	115.12	ng	-0.02
Spiked Amount 100.000			Recovery = 115.12%			
16) Phenol-d5	5.490	99	205433	106.49	ng	-0.03
Spiked Amount 100.000			Recovery = 106.49%			
32) Nitrobenzene-d5	6.260	128	40753	56.49	ng	-0.02
Spiked Amount 50.000			Recovery = 112.98%			
55) 2-Fluorobiphenyl	7.660	172	188605	59.34	ng	-0.02
Spiked Amount 50.000			Recovery = 118.68%			
80) 2,4,6-Tribromophenol	8.984	330	51730	136.34	ng	-0.03
Spiked Amount 100.000			Recovery = 136.34%			
94) Terphenyl-d14	11.513	244	179493	53.84	ng	-0.02
Spiked Amount 50.000			Recovery = 107.68%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.613	88	71024	113.8501	ng	81
9) Pyridine	3.060	79	151122	113.2633	ng	80
10) N-Nitrosodimethylamine	3.002	74	115645	114.5259	ng	79
12) Benzaldehyde	5.437	77	147626	105.7788	ng	100
13) Aniline	5.531	93	233941	101.8318	ng	93
14) Pentachloroethane	5.578	117	66985	117.6048	ng	78
15) bis(2-Chloroethyl)ether	5.590	93	166434m	104.9566	ng	
17) Phenol	5.501	94	237110	106.4757	ng	86
18) 2-Chlorophenol	5.631	128	182361	116.1793	ng	81
19) N-Decane	5.678	57	215091	153.0960	ng	72
20) 1,3-Dichlorobenzene	5.766	146	203731	120.0240	ng	98
22) 1,4-Dichlorobenzene	5.831	146	204412	103.8794	ng	96
23) 1,2-Dichlorobenzene	5.954	146	190033	105.0164	ng	98
24) Benzyl alcohol	5.925	108	118971	95.6458	ng	70
25) bis(2-chloroisopropyl)...	6.037	45	257031	155.5162	ng	100
26) 2-Methylphenol	6.013	108	159346	94.4487	ng	100
27) Acetophenone	6.143	105	222192	95.4318	ng	69
28) Hexachloroethane	6.231	117	76614	97.2295	ng	90
29) N-Nitroso-di-n-propyla...	6.143	70	120383	89.2579	ng	94
30) 3&4-Methylphenol	6.137	108	163081	91.5763	ng	96
33) Nitrobenzene	6.278	77	169588	88.3777	ng	79
34) Isophorone	6.466	82	320891	93.8293	ng	83
35) 2-Nitrophenol	6.525	139	93125	106.3941	ng	84
36) 2,4-Dimethylphenol	6.548	107	166053	95.6897	ng	92
37) Benzoic Acid	6.631	105	122164m	112.3215	ng	
38) bis(2-Chloroethoxy)met...	6.625	93	194892	100.5260	ng	98
39) 2,4-Dichlorophenol	6.707	162	144305	104.8647	ng	85
40) 1,2,4-Trichlorobenzene	6.772	180	160877	102.3079	ng	97
41) Naphthalene	6.837	128	523901	105.7387	ng	98
42) 4-Chloroaniline	6.872	127	167815m	99.6866	ng	
43) Hexachlorobutadiene	6.925	225	91209	100.9415	ng	97
44) Caprolactam	7.154	113	51584	105.1268	ng	68
45) 4-Chloro-3-methylphenol	7.231	107	139978	93.0367	ng	99
46) 2-Methylnaphthalene	7.372	142	348305	109.9450	ng	98
47) 1-Methylnaphthalene	7.448	142	325709	111.3941	ng	99
48) Methylnaphthalenes (To...	7.372	142	670170m	219.2179	ng	
49) 1,1'-Biphenyl	7.742	154	420341	107.6696	ng	94
51) 1,2,4,5-Tetrachloroben...	7.501	216	159840	115.9513	ng	98
52) Hexachlorocyclopentadiene	7.495	237	83034	134.1024	ng	98
53) 2,4,6-Trichlorophenol	7.589	196	103985m	114.7649	ng	
54) 2,4,5-Trichlorophenol	7.619	196	107898	114.5983	ng	100
56) 2-Chloronaphthalene	7.766	162	307086	111.3937	ng	92
57) 1,4-Dimethylnaphthalene	8.048	156	257057	112.8397	ng	86
58) Dimethylnaphthalenes (...	8.048	156	257057	112.8397	ng	86
59) Diphenyl Ether	7.831	170	218271	115.8577	ng	74
60) 2-Nitroaniline	7.842	65	105208	101.1044	ng	59
61) Coumarin	8.031	146	124256	118.8825	ng	90
62) Acenaphthylene	8.125	152	455723	118.7954	ng	98
63) Dimethylphthalate	7.989	163	339991	110.3265	ng	98
64) 2,6-Dinitrotoluene	8.048	165	76255	109.6834	ng	61
65) Acenaphthene	8.278	153	327245	118.3857	ng	97

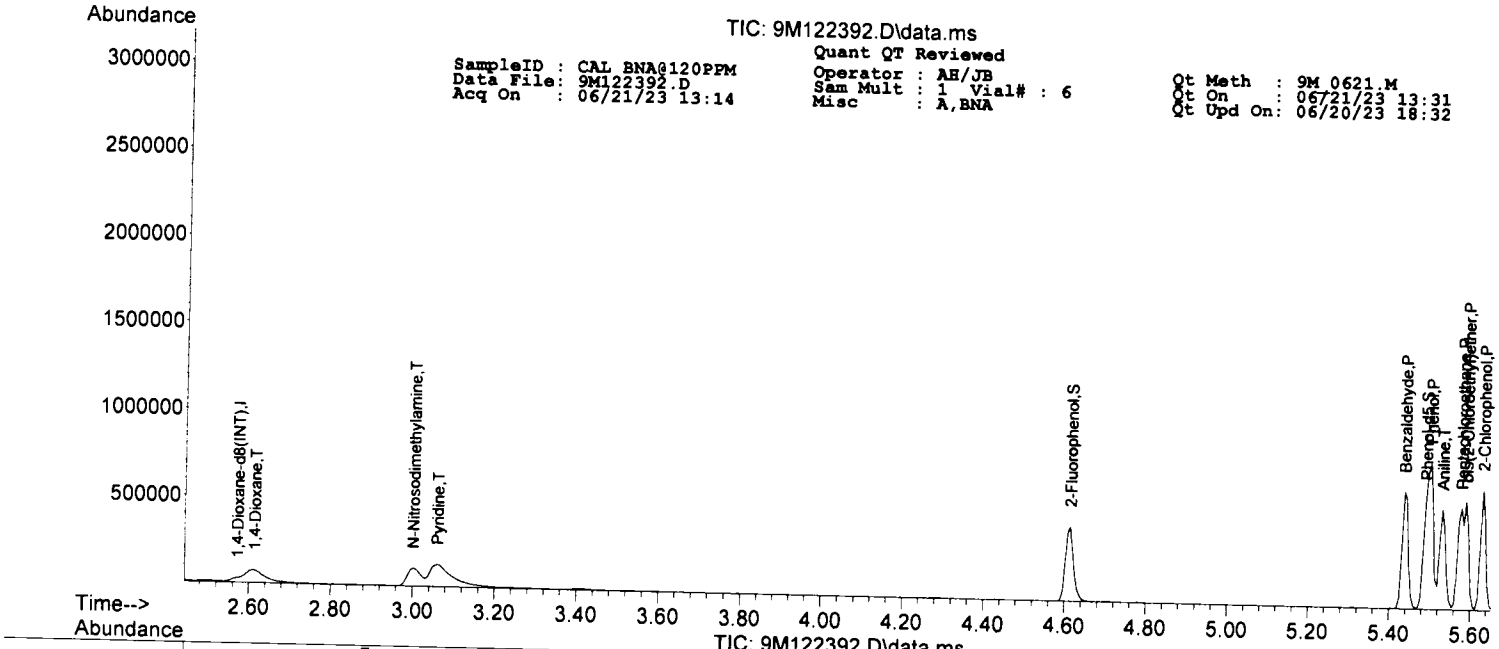
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@120PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122392.D Sam Mult : 1 Vial# : 6 Qt On : 06/21/23 13:31
Acq On : 06/21/23 13:14 Misc : A,BNA Qt Upd On: 06/20/23 18:32

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.195	138	80470	109.4626	ng	75
67)	2,4-Dinitrophenol	8.284	184	36227	95.1615	ng	57
68)	Dibenzofuran	8.431	168	440490	111.9136	ng	84
69)	2,4-Dinitrotoluene	8.401	165	102494	109.7361	ng	69
70)	4-Nitrophenol	8.319	65	59324	91.1059	ng	93
71)	2,3,4,6-Tetrachlorophenol	8.536	232	94966	117.2870	ng	81
72)	Fluorene	8.754	166	361522	115.4467	ng	98
73)	4-Chlorophenyl-phenyle...	8.742	204	176434	105.4046	ng	82
74)	Diethylphthalate	8.625	149	334736	113.3922	ng	97
75)	4-Nitroaniline	8.760	138	93285	118.7346	ng	70
76)	Atrazine	9.389	200	98716	106.8515	ng	95
78)	4,6-Dinitro-2-methylph...	8.789	198	52033	98.2522	ng	77
79)	n-Nitrosodiphenylamine	8.854	169	308770	112.2354	ng	98
81)	1,2-Diphenylhydrazine	8.901	77	336424	91.8332	ng	80
82)	4-Bromophenyl-phenylether	9.231	248	106367	115.1609	ng	81
83)	Hexachlorobenzene	9.295	284	114182	126.2502	ng	65
84)	N-Octadecane	9.572	57	198252	147.7806	ng	89
85)	Pentachlorophenol	9.495	266	73398	148.5886	ng	97
86)	Phenanthrene	9.736	178	519894	110.3744	ng	99
87)	Anthracene	9.789	178	535137	112.9239	ng	100
88)	Carbazole	9.954	167	498025	117.6691	ng	96
89)	Di-n-butylphthalate	10.342	149	608478	122.8110	ng	97
90)	Fluoranthene	11.066	202	603002	113.8334	ng	91
92)	Pyrene	11.330	202	611441	101.6918	ng	87
93)	Benzidine	11.219	184	250850	95.0050	ng	87
95)	4,4'-DDE	11.448	246	126477	104.7751	ng	93
96)	4,4'-DDD	11.842	235	243737	103.6067	ng	96
97)	Butylbenzylphthalate	12.107	149	270759	108.0138	ng	67
98)	4,4'-DDT	12.201	235	191072	103.1027	ng	97
99)	3,3'-Dichlorobenzidine	12.719	252	189867	113.0951	ng	97
100)	Benzo[a]anthracene	12.748	228	586714	109.2493	ng	98
101)	Chrysene	12.789	228	541964	108.3804	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.795	149	369579	111.9501	ng	95
104)	Di-n-octylphthalate	13.548	149	676959	101.2769	ng	100
105)	Benzo[b]fluoranthene	13.960	252	626063	109.3137	ng	96
106)	Benzo[k]fluoranthene	13.989	252	548302m	102.6971	ng	
107)	Benzo[a]pyrene	14.313	252	524625	106.9444	ng	93
108)	Indeno[1,2,3-cd]pyrene	15.689	276	674183	132.7835	ng	84
109)	Dibenzo[a,h]anthracene	15.707	278	525777	133.7402	ng	91
110)	Benzo[g,h,i]perylene	16.065	276	549463	132.2528	ng	76

(#) = qualifier out of range (m) = manual integration (+) = signals summed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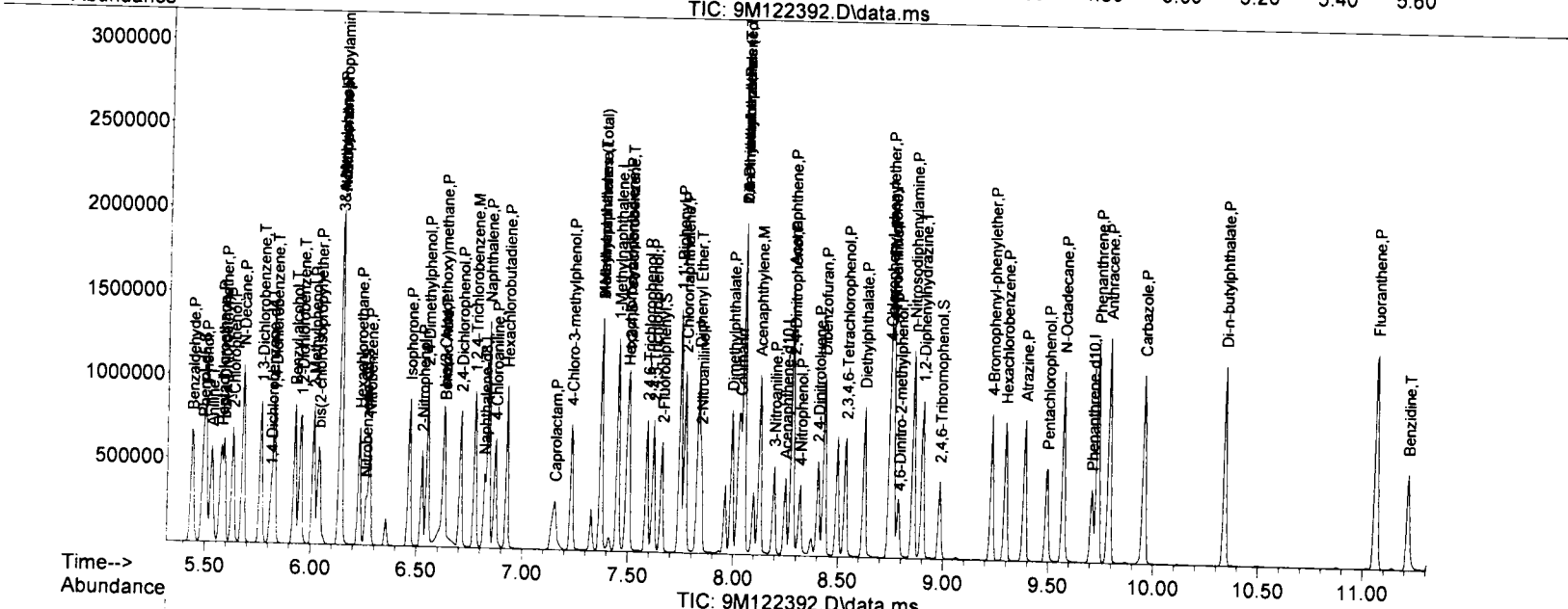
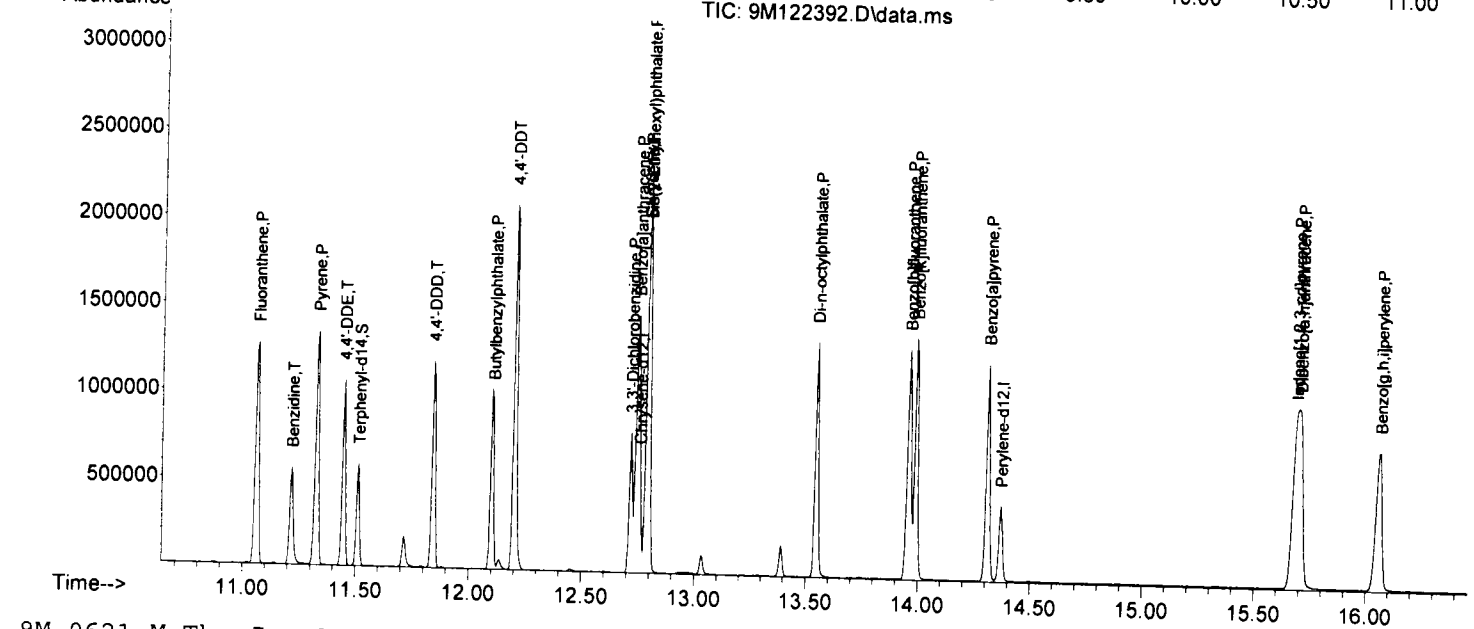
SampleID : CAL BNA@120PPM
Data File: 9M122392.D
Acq On : 06/21/23 13:14
Quant QT Reviewed
Operator : AH/JB
Sam Mult : 1 Vial# : 6
Misc : A,BNA
Qt Meth : 9M_0621.M
Qt On : 06/21/23 13:31
Qt Upd On: 06/20/23 18:32
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
Time-->


Abundance
TIC: 9M122392.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
Acenaphthylene,M
Diethylphthalate,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Time-->


Abundance
TIC: 9M122392.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@160PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122391.D Sam Mult : 1 Vial# : 5 Qt On : 06/21/23 13:24
Acq On : 06/21/23 12:51 Misc : A,BNA Qt Upd On: 06/20/23 18:32

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.578	96	25260	40.00	ng	-0.04
21) 1,4-Dichlorobenzene-d4	5.813	152	46712	40.00	ng	-0.02
31) Naphthalene-d8	6.819	136	167100	40.00	ng	-0.02
50) Acenaphthene-d10	8.248	164	89053	40.00	ng	-0.02
77) Phenanthrene-d10	9.707	188	163851	40.00	ng	-0.03
91) Chrysene-d12	12.760	240	155214	40.00	ng	-0.03
103) Perylene-d12	14.371	264	163284	40.00	ng	-0.04
System Monitoring Compounds						
11) 2-Fluorophenol	4.613	112	237315	159.77	ng	-0.02
Spiked Amount 100.000			Recovery = 159.77%			
16) Phenol-d5	5.496	99	282329	146.68	ng	-0.02
Spiked Amount 100.000			Recovery = 146.68%			
32) Nitrobenzene-d5	6.260	128	54675	77.57	ng	-0.02
Spiked Amount 50.000			Recovery = 155.14%			
55) 2-Fluorobiphenyl	7.660	172	256123	84.15	ng	-0.02
Spiked Amount 50.000			Recovery = 168.30%			
80) 2,4,6-Tribromophenol	8.984	330	71167	193.59	ng	-0.03
Spiked Amount 100.000			Recovery = 193.59%			
94) Terphenyl-d14	11.513	244	244639	74.16	ng	-0.02
Spiked Amount 50.000			Recovery = 148.32%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.613	88	99751	160.2598	ng	77
9) Pyridine	3.060	79	212729	159.7965	ng	80
10) N-Nitrosodimethylamine	3.002	74	159422	158.2355	ng	79
12) Benzaldehyde	5.437	77	200868	144.2532	ng	96
13) Aniline	5.531	93	313350	136.7054	ng	94
14) Pentachloroethane	5.578	117	90407	159.0848	ng	78
15) bis(2-Chloroethyl)ether	5.590	93	229391m	144.9850	ng	
17) Phenol	5.507	94	327057	147.1984	ng	84
18) 2-Chlorophenol	5.631	128	248359	158.5826	ng	83
19) N-Decane	5.678	57	290031	206.9022	ng	72
20) 1,3-Dichlorobenzene	5.766	146	274343	161.9883	ng	97
22) 1,4-Dichlorobenzene	5.831	146	271528	142.6010	ng	98
23) 1,2-Dichlorobenzene	5.954	146	257008	146.7775	ng	99
24) Benzyl alcohol	5.925	108	161747	134.3835	ng	72
25) bis(2-chloroisopropyl)...	6.037	45	342529	214.1767	ng	99
26) 2-Methylphenol	6.013	108	217626	133.3062	ng	99
27) Acetophenone	6.143	105	295005	130.9420	ng	77
28) Hexachloroethane	6.231	117	102473	134.3954	ng	89
29) N-Nitroso-di-n-propyla...	6.143	70	160801	123.2126	ng	91
30) 3&4-Methylphenol	6.137	108	223036	129.4314	ng	96
33) Nitrobenzene	6.278	77	231255	123.3479	ng	80
34) Isophorone	6.466	82	430149	128.7340	ng	86
35) 2-Nitrophenol	6.525	139	126814	148.2900	ng	86
36) 2,4-Dimethylphenol	6.554	107	223458	131.7976	ng	87
37) Benzoic Acid	6.643	105	172547	148.6052	ng	85
38) bis(2-Chloroethoxy)met...	6.631	93	260280	137.4101	ng	95
39) 2,4-Dichlorophenol	6.707	162	196431	146.1003	ng	86
40) 1,2,4-Trichlorobenzene	6.772	180	216250	140.7552	ng	97
41) Naphthalene	6.837	128	703343	145.2931	ng	98
42) 4-Chloroaniline	6.872	127	218083m	132.5932	ng	
43) Hexachlorobutadiene	6.925	225	123634	140.0437	ng	97
44) Caprolactam	7.166	113	71331	148.7887	ng	69
45) 4-Chloro-3-methylphenol	7.237	107	191728	130.4287	ng	96
46) 2-Methylnaphthalene	7.372	142	461589	149.1298	ng	98
47) 1-Methylnaphthalene	7.448	142	435949	152.6025	ng	99
48) Methylnaphthalenes (To...	7.372	142	892208m	298.7105	ng	
49) 1,1'-Biphenyl	7.743	154	579692	151.9785	ng	96
51) 1,2,4,5-Tetrachloroben...	7.501	216	214493	162.4924	ng	98
52) Hexachlorocyclopentadiene	7.495	237	114197	185.2389	ng	99
53) 2,4,6-Trichlorophenol	7.590	196	138150m	159.2279	ng	
54) 2,4,5-Trichlorophenol	7.619	196	147386	163.4748	ng	98
56) 2-Chloronaphthalene	7.772	162	415464	157.3852	ng	90
57) 1,4-Dimethylnaphthalene	8.048	156	342473	156.9960	ng	87
58) Dimethylnaphthalenes (...	8.048	156	342473	156.9960	ng	87
59) Diphenyl Ether	7.831	170	293494	162.6889	ng	74
60) 2-Nitroaniline	7.843	65	140104	140.6053	ng	63
61) Coumarin	8.037	146	166616	166.4742	ng	81
62) Acenaphthylene	8.131	152	618430	168.3523	ng	98
63) Dimethylphthalate	7.995	163	457747	155.1199	ng	98
64) 2,6-Dinitrotoluene	8.048	165	102743	154.3314	ng	64
65) Acenaphthene	8.278	153	429919	162.4212	ng	97

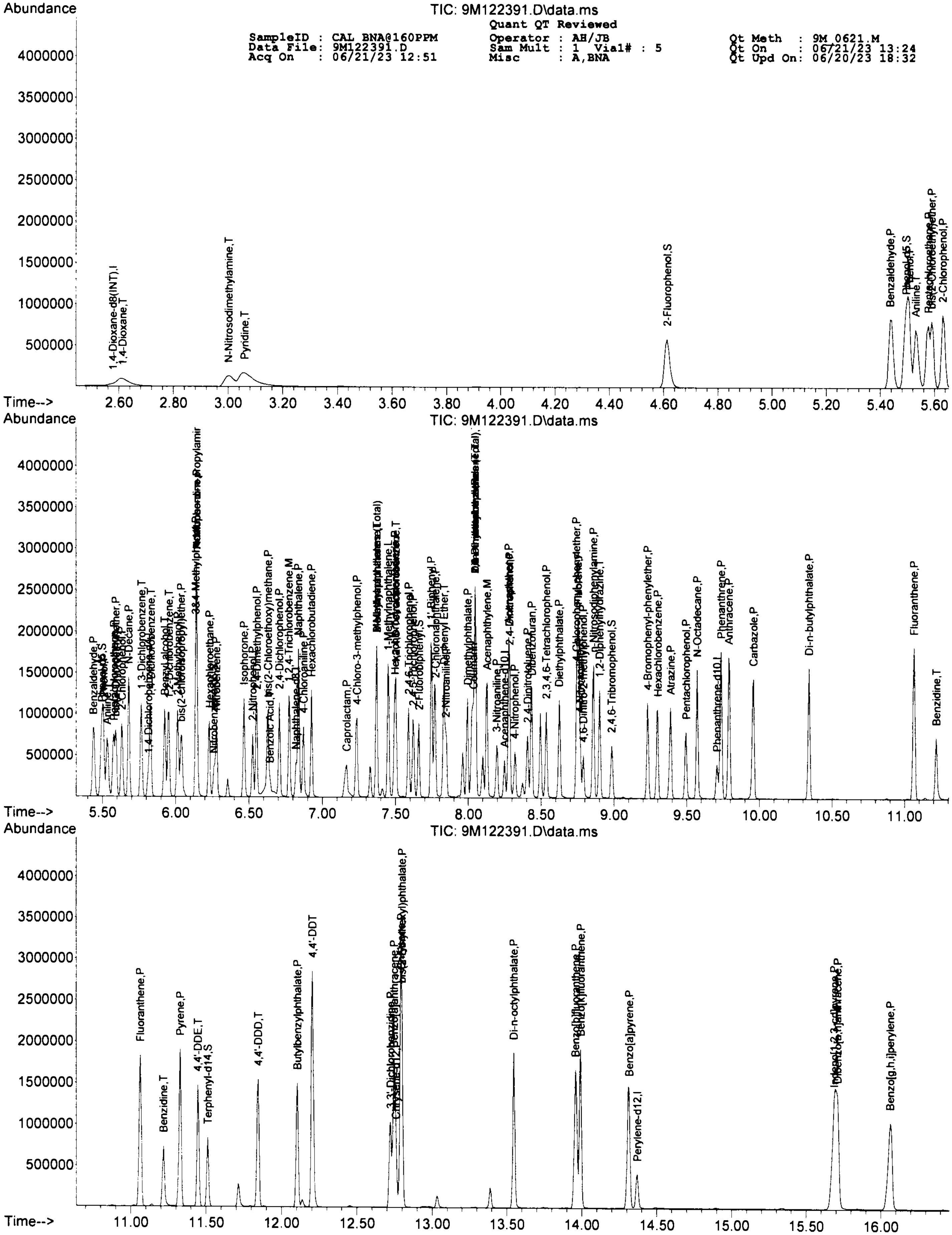
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@160PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122391.D Sam Mult : 1 Vial# : 5 Qt On : 06/21/23 13:24
Acq On : 06/21/23 12:51 Misc : A,BNA Qt Upd On: 06/20/23 18:32

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.195	138	107478	152.6796	ng	77
67)	2,4-Dinitrophenol	8.284	184	53178	136.3638	ng	69
68)	Dibenzofuran	8.437	168	591926	157.0522	ng	81
69)	2,4-Dinitrotoluene	8.407	165	143483	160.4284	ng	60
70)	4-Nitrophenol	8.319	65	85461	137.0609	ng	95
71)	2,3,4,6-Tetrachlorophenol	8.537	232	128435	165.6513	ng	82
72)	Fluorene	8.754	166	491351	163.8583	ng	99
73)	4-Chlorophenyl-phenyle...	8.742	204	239087	149.1637	ng	82
74)	Diethylphthalate	8.625	149	453239	160.3384	ng	96
75)	4-Nitroaniline	8.766	138	126685	168.3916	ng	72
76)	Atrazine	9.389	200	135843	153.5537	ng	95
78)	4,6-Dinitro-2-methylph...	8.790	198	72641	141.5697	ng	72
79)	n-Nitrosodiphenylamine	8.860	169	417385	156.5875	ng	99
81)	1,2-Diphenylhydrazine	8.901	77	455750	128.3999	ng	83
82)	4-Bromophenyl-phenylether	9.231	248	146382	163.5729	ng	81
83)	Hexachlorobenzene	9.301	284	155408	177.3508	ng	58
84)	N-Octadecane	9.572	57	267523	205.8194	ng	90
85)	Pentachlorophenol	9.495	266	99051	206.9595	ng	97
86)	Phenanthrene	9.736	178	704799	154.4345	ng	100
87)	Anthracene	9.789	178	734744	160.0230	ng	100
88)	Carbazole	9.960	167	680387	165.9177	ng	95
89)	Di-n-butylphthalate	10.342	149	820898	171.0042	ng	97
90)	Fluoranthene	11.066	202	820377	159.8416	ng	93
92)	Pyrene	11.331	202	836439	140.5983	ng	90
93)	Benzidine	11.219	184	317204	121.4188	ng	88
95)	4,4'-DDE	11.448	246	175963	147.3270	ng	93
96)	4,4'-DDD	11.848	235	327894	140.8687	ng	95
97)	Butylbenzylphthalate	12.107	149	370543	149.3996	ng	70
98)	4,4'-DDT	12.207	235	263019	143.4414	ng	97
99)	3,3'-Dichlorobenzidine	12.725	252	261570	157.4697	ng	96
100)	Benzo[a]anthracene	12.748	228	782516	147.2651	ng	98
101)	Chrysene	12.795	228	722454	146.0176	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.801	149	499063	152.7872	ng	94
104)	Di-n-octylphthalate	13.548	149	926427	138.1845	ng	99
105)	Benzo[b]fluoranthene	13.960	252	841468	146.4854	ng	96
106)	Benzo[k]fluoranthene	13.995	252	751309m	140.2998	ng	
107)	Benzo[a]pyrene	14.319	252	730235	148.4130	ng	91
108)	Indeno[1,2,3-cd]pyrene	15.689	276	937223	184.0388	ng	84
109)	Dibenzo[a,h]anthracene	15.713	278	735528	186.5348	ng	89
110)	Benzo[g,h,i]perylene	16.066	276	742795	178.2524	ng	77

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M122391.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@160PPM
Data File: 9M122391.D
Acq On : 06/21/23 12:51
Operator : AH/JB
Sam Mult : 1 Vial# : 5
Misc : A,BNA
Qt Meth : 9M_0621.M
Qt On : 06/21/23 13:24
Qt Upd On: 06/20/23 18:32
4000000
3500000
3000000
2500000
2000000
1500000
1000000
500000
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Aniline,T
2-Chlorophenol,P
Time-->
2.60 2.80 3.00 3.20 3.40 3.60 3.80 4.00 4.20 4.40 4.60 4.80 5.00 5.20 5.40 5.60
Abundance
TIC: 9M122391.D\data.ms
Benzaldehyde,P
N-Decane,P
1,3-Dichlorobenzene,T
1,4-Dichlorobenzene,T
Benzyl alcohol,T
Hexachloroethane,P
Nitrobenzene,P
Isophorone,P
2-Nitrophenol,P
2,4-Dimethylphenol,P
bis(2-Chloroethoxy)methane,P
Benzoic Acid,P
2,4-Dichlorophenol,P
1,2,4-Trichlorobenzene,M
Naphthalene,P
4-Chloroaniline,P
Hexachlorobutadiene,P
Caprolactam,P
4-Chloro-3-methylphenol,P
1-Methylnaphthalene,L
2,4,6-Trichlorophenol,P
2-Fluorobiphenyl,S
1,1'-Biphenyl,P
2-Chloronaphthalene,P
2-Nitroaniline,P
Dimethylphthalate,P
Acenaphthylene,M
3-Nitroaniline,P
Acenaphthene-d10,I
2,4-Dinitrophenol,P
4-Nitrophenol,P
Dibenzofuran,P
2,4-Dinitrotoluene,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Chlorophenyl-phenylether,P
N-Nitrosodiphenylamine,P
1,2-Diphenylhydrazine,T
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene-d10,I
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Time-->
5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00
Abundance
TIC: 9M122391.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->
11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50 15.00 15.50 16.00

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@196PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122390.D Sam Mult : 1 Vial# : 4 Qt On : 06/21/23 13:23
Acq On : 06/21/23 12:29 Misc : A,BNA Qt Upd On: 06/20/23 18:32

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.578	96	25917	40.00	ng	-0.04
21) 1,4-Dichlorobenzene-d4	5.813	152	45818	40.00	ng	-0.02
31) Naphthalene-d8	6.825	136	165680	40.00	ng	-0.02
50) Acenaphthene-d10	8.248	164	90112	40.00	ng	-0.02
77) Phenanthrene-d10	9.707	188	169256	40.00	ng	-0.03
91) Chrysene-d12	12.760	240	154408	40.00	ng	-0.03
103) Perylene-d12	14.371	264	162742	40.00	ng	-0.04
System Monitoring Compounds						
11) 2-Fluorophenol	4.613	112	300713	197.32	ng	-0.02
Spiked Amount 100.000			Recovery = 197.32%			
16) Phenol-d5	5.496	99	356458	180.50	ng	-0.02
Spiked Amount 100.000			Recovery = 180.50%			
32) Nitrobenzene-d5	6.266	128	69076	98.85	ng	-0.02
Spiked Amount 50.000			Recovery = 197.70%			
55) 2-Fluorobiphenyl	7.660	172	326640	106.06	ng	-0.02
Spiked Amount 50.000			Recovery = 212.12%			
80) 2,4,6-Tribromophenol	8.989	330	91054	239.78	ng	-0.02
Spiked Amount 100.000			Recovery = 239.78%			
94) Terphenyl-d14	11.513	244	311283	94.85	ng	-0.02
Spiked Amount 50.000			Recovery = 189.70%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.613	88	127301	199.3369	ng	76
9) Pyridine	3.060	79	265315	194.2455	ng	80
10) N-Nitrosodimethylamine	3.002	74	208527	201.7282	ng	80
12) Benzaldehyde	5.443	77	252577	176.7897	ng	99
13) Aniline	5.537	93	401263	170.6215	ng	95
14) Pentachloroethane	5.578	117	115064	197.3398	ng	77
15) bis(2-Chloroethyl)ether	5.596	93	287599m	177.1670	ng	
17) Phenol	5.507	94	413109	181.2144	ng	86
18) 2-Chlorophenol	5.637	128	313846	195.3174	ng	80
19) N-Decane	5.684	57	365440	254.0887	ng	73
20) 1,3-Dichlorobenzene	5.766	146	347282	199.8577	ng	98
22) 1,4-Dichlorobenzene	5.831	146	344539	184.4754	ng	97
23) 1,2-Dichlorobenzene	5.954	146	324943	189.1962	ng	97
24) Benzyl alcohol	5.931	108	201945	171.0547	ng	70
25) bis(2-chloroisopropyl)...	6.043	45	431261	274.9206	ng	100
26) 2-Methylphenol	6.013	108	275254	171.8960	ng	99
27) Acetophenone	6.149	105	368938	166.9535	ng	67
28) Hexachloroethane	6.231	117	129806	173.5649	ng	90
29) N-Nitroso-di-n-propyla...	6.149	70	202388	158.1042	ng	96
30) 3&4-Methylphenol	6.143	108	275125	162.7748	ng	99
33) Nitrobenzene	6.284	77	287365	154.5899	ng	76
34) Isophorone	6.472	82	538681	162.5970	ng	82
35) 2-Nitrophenol	6.525	139	161109	190.0075	ng	88
36) 2,4-Dimethylphenol	6.554	107	284281	169.1087	ng	90
37) Benzoic Acid	6.648	105	216887	176.7613	ng	87
38) bis(2-Chloroethoxy)met...	6.631	93	327467	174.3619	ng	96
39) 2,4-Dichlorophenol	6.707	162	249255	186.9784	ng	87
40) 1,2,4-Trichlorobenzene	6.778	180	270130	177.3322	ng	96
41) Naphthalene	6.843	128	888796	185.1767	ng	98
42) 4-Chloroaniline	6.872	127	379654	232.8058	ng	94
43) Hexachlorobutadiene	6.925	225	154469	176.4710	ng	96
44) Caprolactam	7.178	113	90071	189.4886	ng	70
45) 4-Chloro-3-methylphenol	7.237	107	241789	165.8940	ng	98
46) 2-Methylnaphthalene	7.372	142	582058	189.6625	ng	97
47) 1-Methylnaphthalene	7.454	142	546294	192.8673	ng	98
48) Methylnaphthalenes (To...	7.372	142	1121956m	378.8494	ng	
49) 1,1'-Biphenyl	7.748	154	727932	192.4784	ng	94
51) 1,2,4,5-Tetrachloroben...	7.501	216	268120	200.7313	ng	99
52) Hexachlorocyclopentadiene	7.495	237	147201	228.5636	ng	97
53) 2,4,6-Trichlorophenol	7.590	196	174597m	198.8707	ng	
54) 2,4,5-Trichlorophenol	7.625	196	185513	203.3457	ng	100
56) 2-Chloronaphthalene	7.772	162	527055	197.3115	ng	90
57) 1,4-Dimethylnaphthalene	8.054	156	425134	192.5990	ng	87
58) Dimethylnaphthalenes (...	8.054	156	425134	192.5990	ng	87
59) Diphenyl Ether	7.831	170	371442	203.4771	ng	76
60) 2-Nitroaniline	7.848	65	177586	176.1269	ng	53
61) Coumarin	8.037	146	210098	207.4523	ng	81
62) Acenaphthylene	8.131	152	778124	209.3357	ng	98
63) Dimethylphthalate	7.995	163	585027	195.9223	ng	98
64) 2,6-Dinitrotoluene	8.048	165	129156	191.7267	ng	73
65) Acenaphthene	8.284	153	553628	206.6998	ng	98

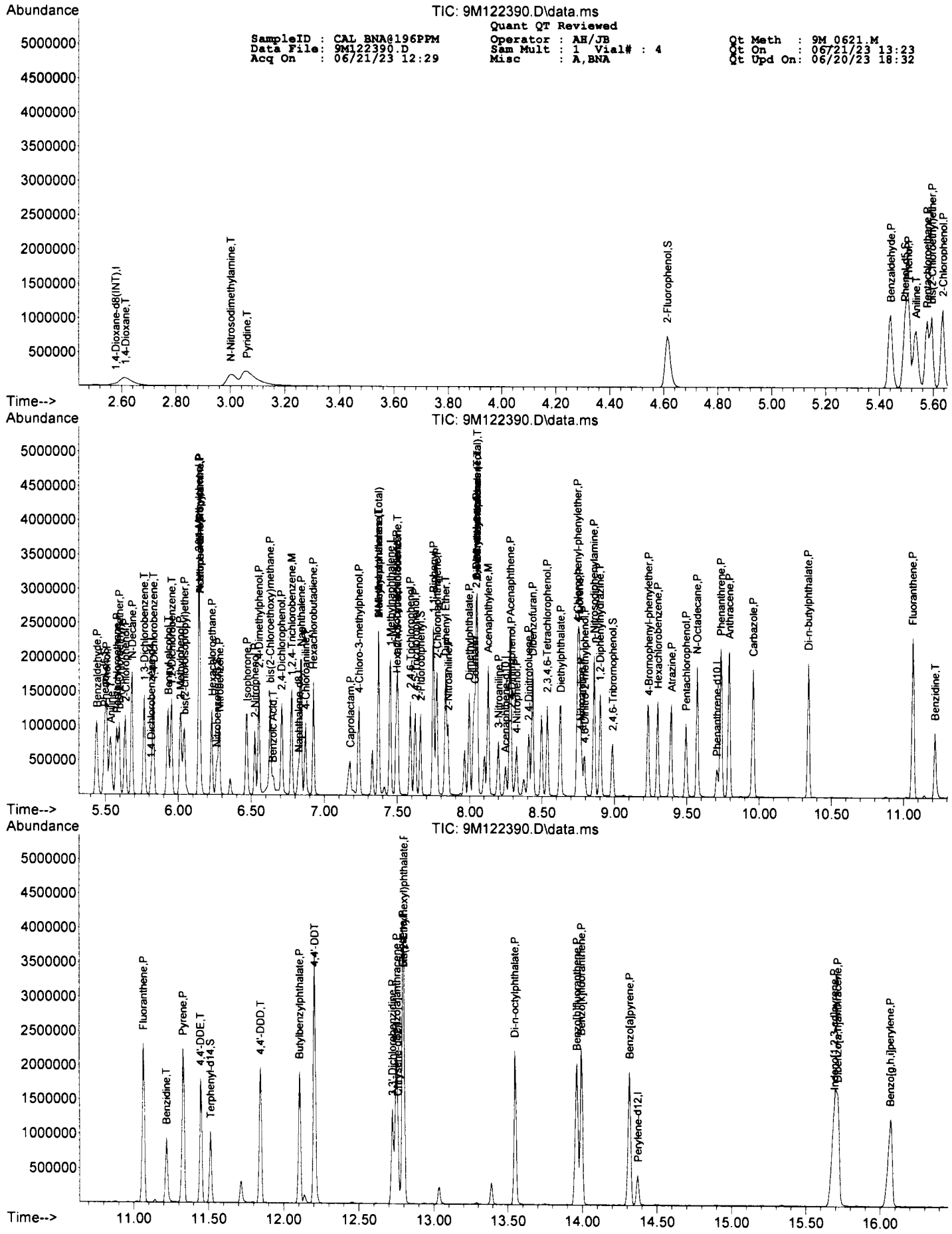
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@196PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122390.D Sam Mult : 1 Vial# : 4 Qt On : 06/21/23 13:23
Acq On : 06/21/23 12:29 Misc : A,BNA Qt Upd On: 06/20/23 18:32

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.201	138	129979	182.4739	ng	72
67)	2,4-Dinitrophenol	8.290	184	67872	164.6314	ng	41
68)	Dibenzofuran	8.437	168	748358	196.2240	ng	83
69)	2,4-Dinitrotoluene	8.407	165	178537	197.2763	ng	67
70)	4-Nitrophenol	8.325	65	108200	171.4900	ng	91
71)	2,3,4,6-Tetrachlorophenol	8.537	232	161399	205.7208	ng	82
72)	Fluorene	8.760	166	617856	203.6244	ng	100
73)	4-Chlorophenyl-phenyle...	8.748	204	303378	187.0498	ng	78
74)	Diethylphthalate	8.631	149	569321	199.0368	ng	96
75)	4-Nitroaniline	8.772	138	159622	209.6784	ng	73
76)	Atrazine	9.395	200	169439	189.2789	ng	95
78)	4,6-Dinitro-2-methylph...	8.795	198	93503	176.4084	ng	72
79)	n-Nitrosodiphenylamine	8.860	169	526863	191.3476	ng	100
81)	1,2-Diphenylhydrazine	8.901	77	627948	171.2642	ng	85
82)	4-Bromophenyl-phenylether	9.237	248	185460	200.6221	ng	77
83)	Hexachlorobenzene	9.301	284	195329	215.7901	ng	62
84)	N-Octadecane	9.572	57	341435	254.2953	ng	90
85)	Pentachlorophenol	9.495	266	129346	261.6282	ng	97
86)	Phenanthrene	9.736	178	873878	185.3681	ng	100
87)	Anthracene	9.795	178	899704	189.6928	ng	98
88)	Carbazole	9.960	167	853943	201.5907	ng	96
89)	Di-n-butylphthalate	10.342	149	1045228	210.7821	ng	97
90)	Fluoranthene	11.066	202	1036948	195.5862	ng	94
92)	Pyrene	11.331	202	1053647	178.0336	ng	92
93)	Benzidine	11.219	184	401952	154.6616	ng	88
95)	4,4'-DDE	11.448	246	222377	187.1595	ng	93
96)	4,4'-DDD	11.848	235	410597	177.3201	ng	95
97)	Butylbenzylphthalate	12.107	149	468524	189.8907	ng	72
98)	4,4'-DDT	12.207	235	326207	178.8306	ng	97
99)	3,3'-Dichlorobenzidine	12.725	252	306576	185.5275	ng	96
100)	Benzo[a]anthracene	12.754	228	1017870	192.5574	ng	99
101)	Chrysene	12.795	228	871906	177.1437	ng	100
102)	bis(2-Ethylhexyl)phtha...	12.801	149	629794	193.8168	ng	93
104)	Di-n-octylphthalate	13.548	149	1170975	175.2426	ng	100
105)	Benzo[b]fluoranthene	13.966	252	1047159	182.8999	ng	97
106)	Benzo[k]fluoranthene	13.995	252	969263m	181.6035	ng	
107)	Benzo[a]pyrene	14.319	252	911900	185.9519	ng	93
108)	Indeno[1,2,3-cd]pyrene	15.695	276	1192323	234.9115	ng	85
109)	Dibenzo[a,h]anthracene	15.718	278	925108	235.3949	ng	90
110)	Benzo[g,h,i]perylene	16.071	276	940779	226.5156	ng	77

(#) = qualifier out of range (m) = manual integration (+) = signals summed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Quant QT Reviewed
SampleID : CAL BNA@196PPM
Data File: 9M122390.D
Acq On : 06/21/23 12:29
Operator : AH/JB
Sam Mult : 1 Vial# : 4
Misc : A,BNA
Qt Meth : 9M_0621.M
Qt On : 06/21/23 13:23
Qt Upd On: 06/20/23 18:32
Abundance
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@0.5PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122395.D Sam Mult : 1 Vial# : 9 Qt On : 06/21/23 14:38
Acq On : 06/21/23 14:21 Misc : A,BNA Qt Upd On: 06/21/23 14:36

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.572	96	25900	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.813	152	50542	40.00	ng	0.00
31) Naphthalene-d8	6.819	136	185669	40.00	ng	0.00
50) Acenaphthene-d10	8.242	164	100737	40.00	ng	0.00
77) Phenanthrene-d10	9.701	188	181464	40.00	ng	0.00
91) Chrysene-d12	12.754	240	166801	40.00	ng	0.00
103) Perylene-d12	14.366	264	167951	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	0.000	112	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
16) Phenol-d5	0.000	99	0d	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
32) Nitrobenzene-d5	0.000	128	0	0.00	ng	
Spiked Amount 50.000			Recovery =	0.00%		
55) 2-Fluorobiphenyl	0.000	172	0d	0.00	ng	
Spiked Amount 50.000			Recovery =	0.00%		
80) 2,4,6-Tribromophenol	0.000	330	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
94) Terphenyl-d14	0.000	244	0d	0.00	ng	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
8) 1,4-Dioxane	2.608	88	378m	0.5923	ng	
9) Pyridine	0.000		0	N.D. d		
10) N-Nitrosodimethylamine	0.000		0	N.D.		
12) Benzaldehyde	0.000		0	N.D. d		
13) Aniline	5.531	93	1359	0.5782	ng	94
14) Pentachloroethane	0.000		0	N.D. d		
15) bis(2-Chloroethyl)ether	5.590	93	1100	0.6781	ng	93
17) Phenol	0.000		0	N.D. d		
18) 2-Chlorophenol	0.000		0	N.D. d		
19) N-Decane	0.000		0	N.D. d		
20) 1,3-Dichlorobenzene	0.000		0	N.D. d		
22) 1,4-Dichlorobenzene	0.000		0	N.D. d		
23) 1,2-Dichlorobenzene	0.000		0	N.D. d		
24) Benzyl alcohol	0.000		0	N.D. d		
25) bis(2-chloroisopropyl)...	0.000		0	N.D. d		
26) 2-Methylphenol	6.007	108	926	0.5242	ng	88
27) Acetophenone	0.000		0	N.D. d		
28) Hexachloroethane	0.000		0	N.D.		
29) N-Nitroso-di-n-propyla...	6.137	70	669	0.4738	ng	88
30) 3&4-Methylphenol	6.131	108	997	0.5347	ng	95
33) Nitrobenzene	0.000		0	N.D. d		
34) Isophorone	0.000		0	N.D. d		
35) 2-Nitrophenol	0.000		0	N.D.		
36) 2,4-Dimethylphenol	6.548	107	940	0.4990	ng	95
37) Benzoic Acid	0.000		0	N.D.		
38) bis(2-Chloroethoxy)met...	0.000		0	N.D. d		
39) 2,4-Dichlorophenol	6.701	162	690	0.4619	ng	80
40) 1,2,4-Trichlorobenzene	0.000		0	N.D. d		
41) Naphthalene	6.837	128	3659	0.6803	ng	93
42) 4-Chloroaniline	6.866	127	1060m	0.5800	ng	
43) Hexachlorobutadiene	0.000		0	N.D. d		
44) Caprolactam	0.000		0	N.D.		
45) 4-Chloro-3-methylphenol	0.000		0	N.D. d		
46) 2-Methylnaphthalene	0.000		0	N.D. d		
47) 1-Methylnaphthalene	0.000		0	N.D. d		
48) Methylnaphthalenes (To...	0.000		0	N.D. d		
49) 1,1'-Biphenyl	0.000		0	N.D. d		
51) 1,2,4,5-Tetrachloroben...	0.000		0	N.D. d		
52) Hexachlorocyclopentadiene	0.000		0	N.D.		
53) 2,4,6-Trichlorophenol	0.000		0	N.D. d		
54) 2,4,5-Trichlorophenol	0.000		0	N.D. d		
56) 2-Chloronaphthalene	0.000		0	N.D. d		
57) 1,4-Dimethylnaphthalene	0.000		0	N.D. d		
58) Dimethylnaphthalenes (...	0.000		0	N.D. d		
59) Diphenyl Ether	0.000		0	N.D. d		
60) 2-Nitroaniline	0.000		0	N.D.		
61) Coumarin	0.000		0	N.D. d		
62) Acenaphthylene	0.000		0	N.D. d		
63) Dimethylphthalate	0.000		0	N.D. d		
64) 2,6-Dinitrotoluene	0.000		0	N.D. d		
65) Acenaphthene	0.000		0	N.D. d		

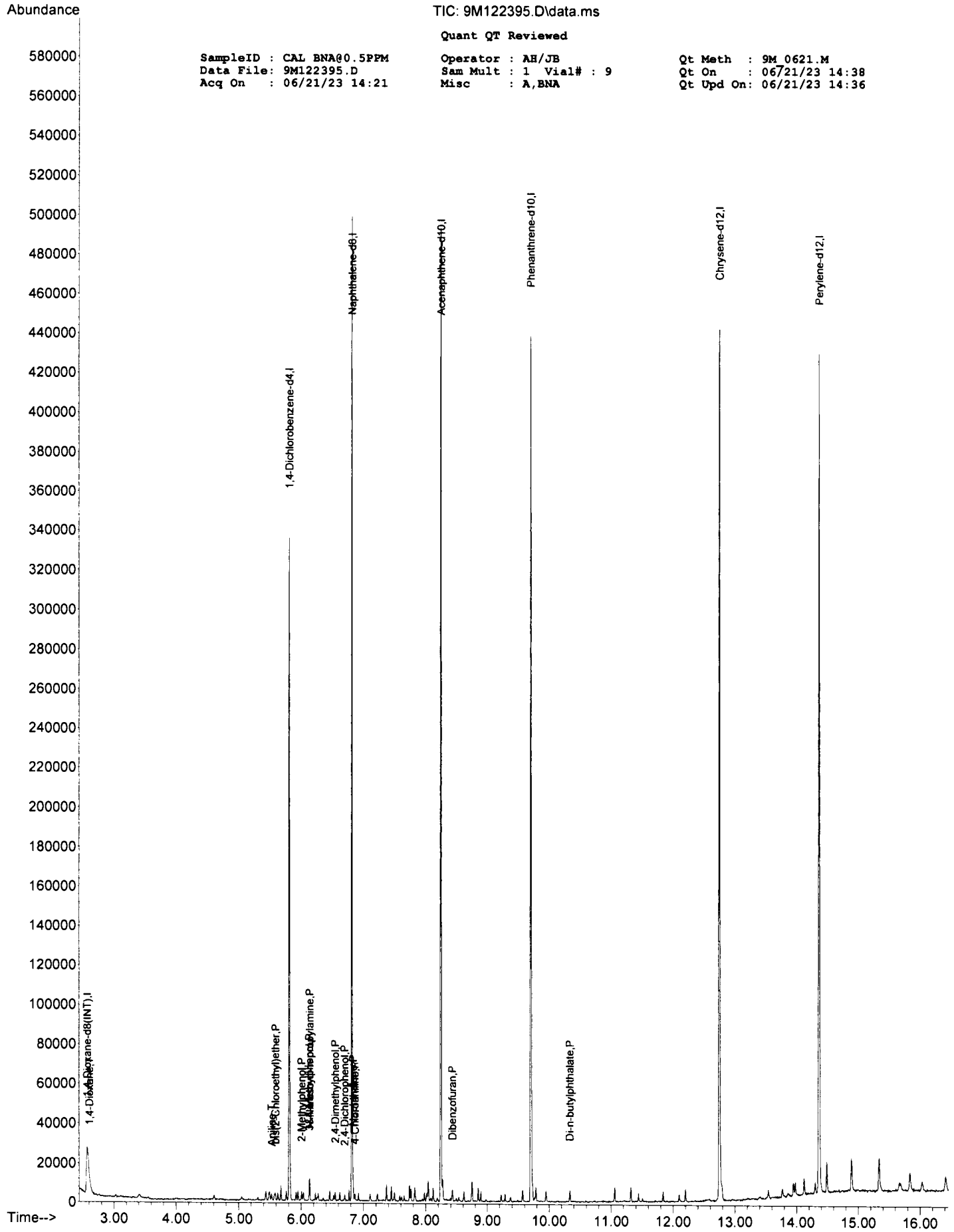
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@0.5PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122395.D Sam Mult : 1 Vial# : 9 Qt On : 06/21/23 14:38
Acq On : 06/21/23 14:21 Misc : A,BNA Qt Upd On: 06/21/23 14:36

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	0.000		0	N.D.		
67)	2,4-Dinitrophenol	0.000		0	N.D.		
68)	Dibenzofuran	8.425	168	3133m	0.7348	ng	
69)	2,4-Dinitrotoluene	0.000		0	N.D. d		
70)	4-Nitrophenol	0.000		0	N.D.		
71)	2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
72)	Fluorene	0.000		0	N.D. d		
73)	4-Chlorophenyl-phenyle...	0.000		0	N.D. d		
74)	Diethylphthalate	0.000		0	N.D. d		
75)	4-Nitroaniline	0.000		0	N.D.		
76)	Atrazine	0.000		0	N.D.		
78)	4,6-Dinitro-2-methylph...	0.000		0	N.D.		
79)	n-Nitrosodiphenylamine	0.000		0	N.D. d		
81)	1,2-Diphenylhydrazine	0.000		0	N.D. d		
82)	4-Bromophenyl-phenylether	0.000		0	N.D.		
83)	Hexachlorobenzene	0.000		0	N.D. d		
84)	N-Octadecane	0.000		0	N.D. d		
85)	Pentachlorophenol	0.000		0	N.D. d		
86)	Phenanthrene	0.000		0	N.D. d		
87)	Anthracene	0.000		0	N.D. d		
88)	Carbazole	0.000		0	N.D. d		
89)	Di-n-butylphthalate	10.336	149	3524	0.6628	ng	90
90)	Fluoranthene	0.000		0	N.D. d		
92)	Pyrene	0.000		0	N.D. d		
93)	Benzidine	0.000		0	N.D.		
95)	4,4'-DDE	0.000		0	N.D. d		
96)	4,4'-DDD	0.000		0	N.D. d		
97)	Butylbenzylphthalate	0.000		0	N.D. d		
98)	4,4'-DDT	0.000		0	N.D. d		
99)	3,3'-Dichlorobenzidine	0.000		0	N.D. d		
100)	Benzo[a]anthracene	0.000		0	N.D. d		
101)	Chrysene	0.000		0	N.D. d		
102)	bis(2-Ethylhexyl)phtha...	0.000		0	N.D. d		
104)	Di-n-octylphthalate	0.000		0	N.D. d		
105)	Benzo[b]fluoranthene	0.000		0	N.D. d		
106)	Benzo[k]fluoranthene	0.000		0	N.D. d		
107)	Benzo[a]pyrene	0.000		0	N.D. d		
108)	Indeno[1,2,3-cd]pyrene	0.000		0	N.D. d		
109)	Dibenzo[a,h]anthracene	0.000		0	N.D. d		
110)	Benzo[g,h,i]perylene	0.000		0	N.D. d		

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M122395.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@0.5PPM
Data File: 9M122395.D
Acq On : 06/21/23 14:21
Operator : AH/JB
Sam Mult : 1 Vial# : 9
Misc : A,BNA
Qt Meth : 9M_0621.M
Qt On : 06/21/23 14:38
Qt Upd On: 06/21/23 14:36
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Chrysene-d12,I
Perylene-d12,I
1,4-Dioxane-d8(INT),I
Dibenzofuran,P
Di-n-butylphthalate,P
Time-->

TxtDfile: 7M129294.D ICV FORM Date/Time: 06/19/23 13:32

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
1.4-Dioxane	1	0		50.7173	50	101		70	130
Pyridine	1	0		50.6578	50	101		50	150
N-Nitrosodimethylamine	1	0		47.5995	50	95		70	130
Benzaldehyde	1	0		36.0678	50	72		50	150
Aniline	1	0		53.5065	50	107		50	150
Pentachloroethane	1	0		47.4877	50	95		70	130
bis(2-Chloroethyl)ether	1	0		48.6683	50	97		70	130
Phenol	1	0		49.5556	50	99		70	130
2-Chlorophenol	1	0		47.6295	50	95		70	130
1.3-Dichlorobenzene	1	0		47.1705	50	94		70	130
1.4-Dichlorobenzene	1	0		48.009	50	96		70	130
1.2-Dichlorobenzene	1	0		47.9817	50	96		70	130
Benzyl alcohol	1	0		48.3272	50	97		70	130
bis(2-chloroisopropyl)ether	1	0		49.4431	50	99		70	130
2-Methylphenol	1	0		48.7746	50	98		70	130
Acetophenone	1	0		51.2693	50	103		70	130
Hexachloroethane	1	0		47.6553	50	95		70	130
N-Nitroso-di-n-propylamine	1	0		47.0281	50	94		70	130
3&4-Methylphenol	1	0		48.4474	50	97		70	130
Nitrobenzene	1	0		48.1688	50	96		70	130
Isophorone	1	0		47.6505	50	95		70	130
2-Nitrophenol	1	0		49.8437	50	100		70	130
2.4-Dimethylphenol	1	0		47.0098	50	94		70	130
Benzoic Acid	1	0		75.7778	50	152		50	190
bis(2-Chloroethoxy)methane	1	0		48.7382	50	97		70	130
2.4-Dichlorophenol	1	0		47.8914	50	96		70	130
1.2.4-Trichlorobenzene	1	0		47.4741	50	95		70	130
Naphthalene	1	0		45.4483	50	91		70	130
4-Chloroaniline	1	0		49.9808	50	100		50	150
Hexachlorobutadiene	1	0		48.9552	50	98		70	130
Caprolactam	1	0		51.4346	50	103		70	130
4-Chloro-3-methylphenol	1	0		48.083	50	96		70	130
2-Methylnaphthalene	1	0		48.7442	50	97		70	130
1-Methylnaphthalene	1	0		58.9915	50	118		70	130
1.1'-Biphenyl	1	0		48.1498	50	96		70	130
1.2.4.5-Tetrachlorobenzene	1	0		52.1449	50	104		70	130
Hexachlorocyclopentadiene	1	0		56.2496	50	112		70	130
2.4.6-Trichlorophenol	1	0		46.6454	50	93		70	130
2.4.5-Trichlorophenol	1	0		49.8472	50	100		70	130
2-Chloronaphthalene	1	0		48.3467	50	97		70	130
1.4-Dimethylnaphthalene	1	0		48.538	50	97		70	130
Diphenyl Ether	1	0		51.3426	50	103		70	130
2-Nitroaniline	1	0		48.9137	50	98		70	130
Acenaphthylene	1	0		54.3497	50	109		70	130
Dimethylphthalate	1	0		48.1694	50	96		70	130
2.6-Dinitrotoluene	1	0		47.9732	50	96		70	130
Acenaphthene	1	0		47.229	50	94		70	130
3-Nitroaniline	1	0		48.3291	50	97		70	130
2.4-Dinitrophenol	1	0		56.6252	50	113		70	130
Dibenzofuran	1	0		47.6741	50	95		70	130
2.4-Dinitrotoluene	1	0		47.9749	50	96		70	130
4-Nitrophenol	1	0		48.5614	50	97		70	130
2.3.4.6-Tetrachlorophenol	1	0		47.6411	50	95		70	130
Fluorene	1	0		48.6611	50	97		70	130
4-Chlorophenyl-phenylether	1	0		48.5736	50	97		70	130
Diethylphthalate	1	0		49.0384	50	98		70	130
4-Nitroaniline	1	0		48.8987	50	98		70	130
Atrazine	1	0		51.5187	50	103		70	130
4.6-Dinitro-2-methylphenol	1	0		58.2854	50	117		70	130
n-Nitrosodiphenylamine	1	0		40.8767	50	82		70	130
1.2-Diphenylhydrazine	1	0		49.0887	50	98		70	130
4-Bromophenyl-phenylether	1	0		48.5599	50	97		70	130
Hexachlorobenzene	1	0		47.6442	50	95		70	130
Pentachlorophenol	1	0		54.6393	50	109		70	130
Phenanthrene	1	0		46.9967	50	94		70	130
Anthracene	1	0		48.4348	50	97		70	130
Carbazole	1	0		49.038	50	98		70	130
Di-n-butylphthalate	1	0		49.1862	50	98		70	130
Fluoranthene	1	0		49.207	50	98		70	130
Pyrene	1	0		47.4783	50	95		70	130
Benzidine	1	0		40.6828	50	81		30	150
Butylbenzylphthalate	1	0		49.9151	50	100		70	130
3.3'-Dichlorobenzidine	1	0		45.1775	50	90		50	150
Benzo[a]anthracene	1	0		46.835	50	94		70	130
Chrysene	1	0		46.9952	50	94		70	130
bis(2-Ethylhexyl)phthalate	1	0		49.0356	50	98		70	130
Di-n-octylphthalate	1	0		49.4377	50	99		70	130
Benzo[b]fluoranthene	1	0		47.7723	50	96		70	130
Benzo[k]fluoranthene	1	0		47.8408	50	96		70	130
Benzo[a]pyrene	1	0		50.7461	50	101		70	130
Indeno[1.2.3-cd]pyrene	1	0		47.9216	50	96		70	130
Dibenzo[a.h]anthracene	1	0		48.1449	50	96		70	130
Benzo[g.h.i]perylene	1	0		48.9285	50	98		70	130

TxtDfile: 9M122397.D ICV FORM Date/Time: 06/21/23 15:07

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
1.4-Dioxane	1	0		49.9074	50	100		70	130
Pyridine	1	0		50.1076	50	100		50	150
N-Nitrosodimethylamine	1	0		46.905	50	94		70	130
Benzaldehyde	1	0		31.2717	50	63		50	150
Aniline	1	0		53.2144	50	106		50	150
Pentachloroethane	1	0		48.2821	50	97		70	130
bis(2-Chloroethyl)ether	1	0		46.4318	50	93		70	130
Phenol	1	0		46.5316	50	93		70	130
2-Chlorophenol	1	0		47.2314	50	94		70	130
1.3-Dichlorobenzene	1	0		47.0037	50	94		70	130
1.4-Dichlorobenzene	1	0		47.1125	50	94		70	130
1.2-Dichlorobenzene	1	0		48.097	50	96		70	130
Benzyl alcohol	1	0		50.1317	50	100		70	130
bis(2-chloroisopropyl)ether	1	0		49.4169	50	99		70	130
2-Methylphenol	1	0		48.1086	50	96		70	130
Acetophenone	1	0		56.0343	50	112		70	130
Hexachloroethane	1	0		49.6391	50	99		70	130
N-Nitroso-di-n-propylamine	1	0		48.1014	50	96		70	130
3&4-Methylphenol	1	0		49.6531	50	99		70	130
Nitrobenzene	1	0		48.1836	50	96		70	130
Isophorone	1	0		48.4352	50	97		70	130
2-Nitrophenol	1	0		48.7115	50	97		70	130
2.4-Dimethylphenol	1	0		47.5016	50	95		70	130
Benzoic Acid	1	0		72.9617	50	146		50	190
bis(2-Chloroethoxy)methane	1	0		48.8201	50	98		70	130
2.4-Dichlorophenol	1	0		47.4136	50	95		70	130
1.2.4-Trichlorobenzene	1	0		48.1077	50	96		70	130
Naphthalene	1	0		45.407	50	91		70	130
4-Chloroaniline	1	0		52.2375	50	104		50	150
Hexachlorobutadiene	1	0		49.3493	50	99		70	130
Caprolactam	1	0		55.7269	50	111		70	130
4-Chloro-3-methylphenol	1	0		47.6911	50	95		70	130
2-Methylnaphthalene	1	0		48.152	50	96		70	130
1-Methylnaphthalene	1	0		59.28	50	119		70	130
1.1'-Biphenyl	1	0		48.165	50	96		70	130
1.2.4.5-Tetrachlorobenzene	1	0		55.1566	50	110		70	130
Hexachlorocyclopentadiene	1	0		52.1774	50	104		70	130
2.4.6-Trichlorophenol	1	0		47.5921	50	95		70	130
2.4.5-Trichlorophenol	1	0		45.8848	50	92		70	130
2-Chloronaphthalene	1	0		48.1676	50	96		70	130
1.4-Dimethylnaphthalene	1	0		48.7795	50	98		70	130
Diphenyl Ether	1	0		55.2906	50	111		70	130
2-Nitroaniline	1	0		50.8545	50	102		70	130
Acenaphthylene	1	0		53.7563	50	108		70	130
Dimethylphthalate	1	0		47.8272	50	96		70	130
2.6-Dinitrotoluene	1	0		47.1621	50	94		70	130
Acenaphthene	1	0		47.6868	50	95		70	130
3-Nitroaniline	1	0		51.8563	50	104		70	130
2.4-Dinitrophenol	1	0		52.4244	50	105		70	130
Dibenzofuran	1	0		45.4693	50	91		70	130
2.4-Dinitrotoluene	1	0		49.8092	50	100		70	130
4-Nitrophenol	1	0		48.6627	50	97		70	130
2.3.4.6-Tetrachlorophenol	1	0		48.2631	50	97		70	130
Fluorene	1	0		48.9532	50	98		70	130
4-Chlorophenyl-phenylether	1	0		48.3747	50	97		70	130
Diethylphthalate	1	0		48.188	50	96		70	130
4-Nitroaniline	1	0		50.6795	50	101		70	130
Atrazine	1	0		56.3306	50	113		70	130
4.6-Dinitro-2-methylphenol	1	0		53.9021	50	108		70	130
n-Nitrosodiphenylamine	1	0		40.4981	50	81		70	130
1.2-Diphenylhydrazine	1	0		46.1893	50	92		70	130
4-Bromophenyl-phenylether	1	0		47.7815	50	96		70	130
Hexachlorobenzene	1	0		46.7521	50	94		70	130
Pentachlorophenol	1	0		57.0282	50	114		70	130
Phenanthrene	1	0		46.7848	50	94		70	130
Anthracene	1	0		47.5753	50	95		70	130
Carbazole	1	0		48.0551	50	96		70	130
Di-n-butylphthalate	1	0		46.8767	50	94		70	130
Fluoranthene	1	0		48.0566	50	96		70	130
Pyrene	1	0		47.7113	50	95		70	130
Benzidine	1	0		49.415	50	99		30	150
Butylbenzylphthalate	1	0		50.6207	50	101		70	130
3.3'-Dichlorobenzidine	1	0		50.0568	50	100		50	150
Benzo[a]anthracene	1	0		48.2013	50	96		70	130
Chrysene	1	0		48.8204	50	98		70	130
bis(2-Ethylhexyl)phthalate	1	0		49.9712	50	100		70	130
Di-n-octylphthalate	1	0		50.9849	50	102		70	130
Benzo[b]fluoranthene	1	0		46.2805	50	93		70	130
Benzo[k]fluoranthene	1	0		50.9699	50	102		70	130
Benzo[a]pyrene	1	0		52.4027	50	105		70	130
Indeno[1.2.3-cd]pyrene	1	0		48.1852	50	96		70	130
Dibenzo[a.h]anthracene	1	0		49.2297	50	98		70	130
Benzo[g.h.i]perylene	1	0		48.606	50	97		70	130

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M129375.D **Instrument:** GCMS 7

Cont Calibration Date/Time 6/21/2023 2:33:00 P Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.62	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.66	47.47	50	**		1.034	0.982	5.05	
Pyridine	1	0		3.13	46.56	50	**		1.934	1.801	6.88	
N-Nitrosodimethylamine	1	0		3.07	46.37	50	**		1.541	1.429	7.26	
2-Fluorophenol	1	0	S	4.65	48.36	50	**		2.418	2.339	3.27	
Benzaldehyde	1	0		5.45	47.97	50	20	0.01	1.991	1.910	4.07	
Aniline	1	0		5.55	48.28	50	**		3.462	3.344	3.43	
Pentachloroethane	1	0		5.59	48.57	50	**	0.05	0.878	0.853	2.86	
bis(2-Chloroethyl)ether	1	0		5.61	47.44	50	20	0.7	2.384	2.262	5.12	
Phenol-d5	1	0	S	5.52	48.50	50	**		2.857	2.771	3.00	
Phenol	1	0		5.54	49.14	50	20	0.8	3.255	3.199	1.73	
2-Chlorophenol	1	0		5.65	48.65	50	20	0.8	2.449	2.383	2.69	
N-Decane	1	0		5.69	50.11	50	**	0.05	2.322	2.327	0.23	
1,3-Dichlorobenzene	1	0		5.78	49.13	50	**		2.510	2.467	1.73	
1,4-Dichlorobenzene-d4	1	0	I	5.82	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.84	50.31	50	20		1.524	1.534	0.61	
1,2-Dichlorobenzene	1	0		5.97	50.39	50	**		1.453	1.464	0.79	
Benzyl alcohol	1	0		5.94	48.82	50	**		1.030	1.006	2.35	
bis(2-chloroisopropyl)ether	1	0		6.05	48.65	50	20	0.01	1.698	1.652	2.69	
2-Methylphenol	1	0		6.04	49.48	50	20	0.7	1.378	1.364	1.05	
Acetophenone	1	0		6.15	50.07	50	20	0.01	2.002	2.005	0.14	
Hexachloroethane	1	0		6.24	49.37	50	20	0.3	0.626	0.618	1.26	
N-Nitroso-di-n-propylamine	1	0		6.15	49.50	50	20	0.5	0.992	0.983	0.99	
3&4-Methylphenol	1	0		6.16	50.16	50	20		1.352	1.356	0.32	
Naphthalene-d8	1	0	I	6.84	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.28	24.41	25	**		0.185	0.181	2.35	
Nitrobenzene	1	0		6.29	48.83	50	20	0.2	0.384	0.375	2.33	
Isophorone	1	0		6.48	48.30	50	20	0.4	0.734	0.709	3.40	
2-Nitrophenol	1	0		6.54	49.84	50	20	0.1	0.208	0.207	0.32	
2,4-Dimethylphenol	1	0		6.56	49.56	50	20	0.2	0.372	0.369	0.88	
Benzoic Acid	1	0		6.64	37.36	50	**		0.303	0.227	25.27	
bis(2-Chloroethoxy)methane	1	0		6.64	48.99	50	20	0.3	0.430	0.421	2.01	
2,4-Dichlorophenol	1	0		6.72	51.34	50	20	0.2	0.300	0.308	2.68	
1,2,4-Trichlorobenzene	1	0		6.79	50.29	50	**		0.309	0.310	0.59	
Naphthalene	1	0		6.85	48.68	50	20	0.7	1.070	1.041	2.64	
4-Chloroaniline	1	0		6.89	52.33	50	20	0.01	0.404	0.423	4.65	
Hexachlorobutadiene	1	0		6.94	50.09	50	20	0.01	0.158	0.159	0.17	
Caprolactam	1	0		7.17	48.76	50	20	0.01	0.138	0.135	2.49	
4-Chloro-3-methylphenol	1	0		7.26	49.55	50	20	0.2	0.334	0.331	0.91	
2-Methylnaphthalene	1	0		7.39	50.92	50	**	0.4	0.694	0.707	1.83	
1-Methylnaphthalene	1	0		7.46	49.73	50	**	0.4	0.649	0.646	0.54	
Methylnaphthalenes	1	0		7.39	100.76	50	**			1.355	101.52	
1,1'-Biphenyl	1	0		7.76	50.05	50	20	0.01	0.862	0.863	0.09	
Acenaphthene-d10	1	0	I	8.27	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.52	50.25	50	20	0.01	0.508	0.510	0.49	
Hexachlorocyclopentadiene	1	0		7.51	23.61	50	20	0.05	0.145	0.061	52.77	C1
2,4,6-Trichlorophenol	1	0		7.61	50.39	50	20	0.2	0.374	0.377	0.78	
2,4,5-Trichlorophenol	1	0		7.65	48.06	50	20	0.2	0.393	0.378	3.88	
2-Fluorobiphenyl	1	0	S	7.68	24.93	25	**		1.305	1.301	0.27	
2-Chloronaphthalene	1	0		7.79	50.05	50	20	0.8	1.117	1.119	0.11	
1,4-Dimethylnaphthalene	1	0		8.07	51.36	50	**		0.869	0.892	2.73	
Dimethylnaphthalenes	1	0		8.07	51.36	50	20			0.892	2.73	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M129375.D **Instrument:** GCMS 7

Cont Calibration Date/Time 6/21/2023 2:33:00 P Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.85	50.64	50	**		0.808	0.819	1.28	
2-Nitroaniline	1	0		7.87	49.74	50	20	0.01	0.417	0.415	0.52	
Coumarin	1	0		8.06	52.32		**		0.459			
Acenaphthylene	1	0		8.15	50.68	50	20	0.9	1.578	1.600	1.36	
Dimethylphthalate	1	0		8.01	49.95	50	20	0.01	1.312	1.311	0.09	
2,6-Dinitrotoluene	1	0		8.07	51.09	50	20	0.2	0.287	0.293	2.18	
Acenaphthene	1	0		8.30	50.42	50	20	0.9	1.074	1.083	0.85	
3-Nitroaniline	1	0		8.22	51.88	50	20	0.01	0.338	0.351	3.76	
2,4-Dinitrophenol	1	0		8.32	39.18	50	20	0.2	0.160	0.125	21.64	C1
Dibenzofuran	1	0		8.46	50.18	50	20	0.8	1.612	1.617	0.36	
2,4-Dinitrotoluene	1	0		8.43	51.11	50	20	0.2	0.417	0.426	2.22	
4-Nitrophenol	1	0		8.36	46.61	50	20	0.01	0.257	0.240	6.78	
2,3,4,6-Tetrachlorophenol	1	0		8.57	48.93	50	20	0.01	0.302	0.296	2.15	
Fluorene	1	0		8.78	51.12	50	20	0.9	1.286	1.315	2.25	
4-Chlorophenyl-phenylether	1	0		8.77	50.21	50	20	0.4	0.612	0.615	0.43	
Diethylphthalate	1	0		8.64	50.74	50	20	0.01	1.284	1.303	1.47	
4-Nitroaniline	1	0		8.80	50.90	50	20	0.01	0.371	0.377	1.79	
Atrazine	1	0		9.42	51.01	50	20	0.01	0.396	0.404	2.03	
Phenanthrene-d10	1	0	I	9.75	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.83	42.60	50	20	0.01	0.130	0.111	14.81	
n-Nitrosodiphenylamine	1	0		8.89	49.39	50	20	0.01	0.658	0.650	1.22	
2,4,6-Tribromophenol	1	0	S	9.02	46.61	50	**		0.090	0.083	6.78	
1,2-Diphenylhydrazine	1	0		8.93	50.75	50	**		0.811	0.823	1.50	
4-Bromophenyl-phenylether	1	0		9.26	48.83	50	20	0.1	0.205	0.200	2.33	
Hexachlorobenzene	1	0		9.33	48.10	50	20	0.1	0.216	0.208	3.80	
N-Octadecane	1	0		9.60	50.18	50	**	0.05	0.382	0.384	0.37	
Pentachlorophenol	1	0		9.54	43.15	50	20	0.05	0.123	0.106	13.70	
Phenanthrene	1	0		9.77	49.69	50	20	0.7	1.064	1.057	0.63	
Anthracene	1	0		9.83	50.28	50	20	0.7	1.083	1.089	0.56	
Carbazole	1	0		10.00	50.01	50	20	0.01	1.061	1.062	0.02	
Di-n-butylphthalate	1	0		10.38	49.67	50	20	0.01	1.323	1.314	0.67	
Fluoranthene	1	0		11.11	48.65	50	20	0.6	1.169	1.138	2.71	
Chrysene-d12	1	0	I	12.83	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.38	52.72	50	20	0.6	1.491	1.572	5.45	
Benzidine	1	0		11.27	50.57	50	**		0.834	0.843	1.14	
Terphenyl-d14	1	0	S	11.57	25.57	25	**		0.868	0.888	2.29	
4,4'-DDE	1	0		11.49	51.52		**		0.305			
4,4'-DDD	1	0		11.90	51.74		**		0.565			
Butylbenzylphthalate	1	0		12.15	51.01	50	20	0.01	0.733	0.747	2.02	
4,4'-DDT	1	0		12.26	49.78		**		0.419			
3,3'-Dichlorobenzidine	1	0		12.78	50.72	50	20	0.01	0.479	0.486	1.45	
Benzo[a]anthracene	1	0		12.81	48.76	50	20	0.8	1.317	1.284	2.47	
Chrysene	1	0		12.86	50.20	50	20	0.7	1.154	1.158	0.39	
bis(2-Ethylhexyl)phthalate	1	0		12.85	52.99	50	20	0.01	0.923	0.978	5.97	
Perylene-d12	1	0	I	14.47	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.60	51.45	50	20	0.01	1.714	1.764	2.91	
Benzo[b]fluoranthene	1	0		14.04	49.98	50	20	0.7	1.284	1.283	0.04	
Benzo[k]fluoranthene	1	0		14.07	46.30	50	20	0.7	1.181	1.094	7.41	
Benzo[a]pyrene	1	0		14.41	48.62	50	20	0.7	1.106	1.076	2.76	
Indeno[1,2,3-cd]pyrene	1	0		15.86	50.72	50	20	0.5	1.284	1.302	1.43	
Dibenzo[a,h]anthracene	1	0		15.88	52.31	50	20	0.4	1.066	1.116	4.62	
Benzo[g,h,i]perylene	1	0		16.26	50.81	50	20	0.5	1.058	1.075	1.63	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M129375.D **Instrument:** GCMS 7

Cont Calibration Date/Time 6/21/2023 2:33:00 P Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.672	0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.869	0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129375.D Sam Mult : 1 Vial# : 2 Qt On : 06/21/23 14:50
Acq On : 06/21/23 14:33 Misc : A,BNA Qt Upd On: 06/19/23 13:33

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-2123\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.617	96	53354	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.825	152	85748	40.00	ng	0.00
31) Naphthalene-d8	6.835	136	342075	40.00	ng	0.00
50) Acenaphthene-d10	8.269	164	202271	40.00	ng	0.00
77) Phenanthrene-d10	9.750	188	352529	40.00	ng	0.00
91) Chrysene-d12	12.828	240	256777	40.00	ng	0.00
103) Perylene-d12	14.473	264	250384	40.00	ng	-0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.650	112	155984	48.36	ng	0.00
Spiked Amount 100.000			Recovery = 48.36%			
16) Phenol-d5	5.525	99	184787	48.50	ng	0.00
Spiked Amount 100.000			Recovery = 48.50%			
32) Nitrobenzene-d5	6.277	128	38593	24.41	ng	0.00
Spiked Amount 50.000			Recovery = 48.82%			
55) 2-Fluorobiphenyl	7.675	172	164512	24.93	ng	0.00
Spiked Amount 50.000			Recovery = 49.86%			
80) 2,4,6-Tribromophenol	9.021	330	36784	46.61	ng	0.00
Spiked Amount 100.000			Recovery = 46.61%			
94) Terphenyl-d14	11.565	244	142548	25.57	ng	0.00
Spiked Amount 50.000			Recovery = 51.14%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.658	88	65474	47.4733	ng	99
9) Pyridine	3.128	79	120090	46.5580	ng	72
10) N-Nitrosodimethylamine	3.069	74	95284	46.3709	ng	75
12) Benzaldehyde	5.454	77	127407	47.9658	ng	74
13) Aniline	5.548	93	222987	48.2841	ng	90
14) Pentachloroethane	5.590	117	56873	48.5691	ng	82
15) bis(2-Chloroethyl)ether	5.607	93	150863	47.4408	ng	79
17) Phenol	5.537	94	213325	49.1354	ng	92
18) 2-Chlorophenol	5.648	128	158911	48.6536	ng	82
19) N-Decane	5.689	57	155181	50.1134	ng	89
20) 1,3-Dichlorobenzene	5.778	146	164529	49.1349	ng	98
22) 1,4-Dichlorobenzene	5.842	146	164379	50.3070	ng	97
23) 1,2-Dichlorobenzene	5.966	146	156931	50.3927	ng	98
24) Benzyl alcohol	5.942	108	107809	48.8237	ng	73
25) bis(2-chloroisopropyl)...	6.048	45	177097	48.6544	ng	94
26) 2-Methylphenol	6.036	108	146187	49.4770	ng	98
27) Acetophenone	6.154	105	214855	50.0680	ng	73
28) Hexachloroethane	6.236	117	66236	49.3713	ng	83
29) N-Nitroso-di-n-propyla...	6.154	70	105316	49.5026	ng	80
30) 3&4-Methylphenol	6.160	108	145333	50.1590	ng	99
33) Nitrobenzene	6.289	77	160160	48.8332	ng	80
34) Isophorone	6.477	82	303255	48.3009	ng	86
35) 2-Nitrophenol	6.536	139	88684	49.8414	ng	92
36) 2,4-Dimethylphenol	6.565	107	157641	49.5624	ng	96
37) Benzoic Acid	6.641	105	96871m	37.3629	ng	
38) bis(2-Chloroethoxy)met...	6.635	93	180042	48.9926	ng	97
39) 2,4-Dichlorophenol	6.724	162	131854	51.3417	ng	89
40) 1,2,4-Trichlorobenzene	6.788	180	132767	50.2946	ng	98
41) Naphthalene	6.847	128	445303	48.6775	ng	99
42) 4-Chloroaniline	6.888	127	180756m	52.3257	ng	
43) Hexachlorobutadiene	6.935	225	67828	50.0866	ng	97
44) Caprolactam	7.170	113	57574	48.7571	ng	67
45) 4-Chloro-3-methylphenol	7.258	107	141569	49.5469	ng	81
46) 2-Methylnaphthalene	7.388	142	302162	50.9161	ng	99
47) 1-Methylnaphthalene	7.464	142	276093	49.7318	ng	91
48) Methylnaphthalenes (To...	7.388	142	579218m	100.7576	ng	
49) 1,1'-Biphenyl	7.764	154	368863	50.0461	ng	93
51) 1,2,4,5-Tetrachloroben...	7.517	216	128990	50.2454	ng	98
52) Hexachlorocyclopentadiene	7.505	237	15479	23.6135	ng	98
53) 2,4,6-Trichlorophenol	7.611	196	95403	50.3922	ng	99
54) 2,4,5-Trichlorophenol	7.646	196	95549	48.0624	ng	98
56) 2-Chloronaphthalene	7.787	162	282837	50.0541	ng	92
57) 1,4-Dimethylnaphthalene	8.069	156	225607	51.3634	ng	90
58) Dimethylnaphthalenes (...	8.069	156	225607	51.3634	ng	90
59) Diphenyl Ether	7.846	170	207003	50.6400	ng	80
60) 2-Nitroaniline	7.869	65	104842	49.7412	ng	44
61) Coumarin	8.057	146	121331	52.3166	ng	72
62) Acenaphthylene	8.145	152	404453	50.6809	ng	99
63) Dimethylphthalate	8.010	163	331407	49.9528	ng	99
64) 2,6-Dinitrotoluene	8.069	165	74066	51.0894	ng	68
65) Acenaphthene	8.298	153	273818	50.4240	ng	98

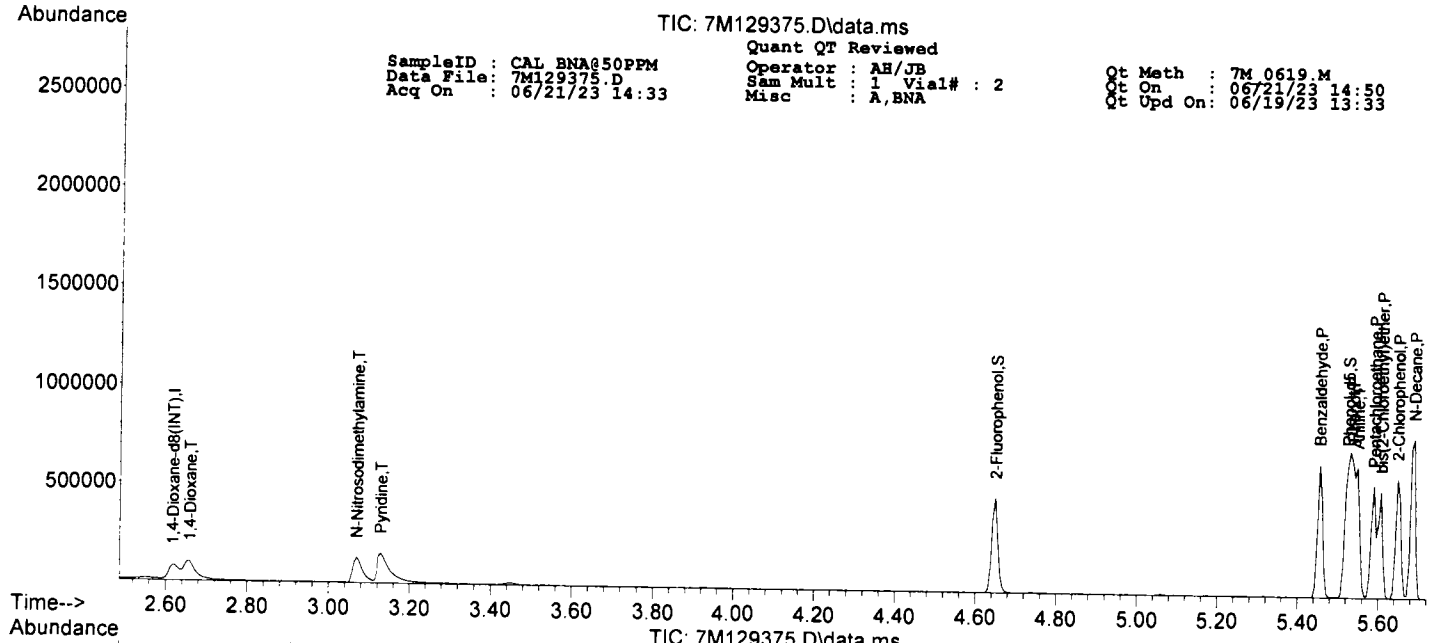
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129375.D Sam Mult : 1 Vial# : 2 Qt On : 06/21/23 14:50
Acq On : 06/21/23 14:33 Misc : A,BNA Qt Upd On: 06/19/23 13:33

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-2123\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) 3-Nitroaniline	8.222	138	88637	51.8820	ng	80
67) 2,4-Dinitrophenol	8.322	184	31687	39.1781	ng	34
68) Dibenzofuran	8.457	168	408959	50.1779	ng	86
69) 2,4-Dinitrotoluene	8.433	165	107714	51.1098	ng	65
70) 4-Nitrophenol	8.363	65	60673	46.6087	ng	86
71) 2,3,4,6-Tetrachlorophenol	8.569	232	74718	48.9252	ng	86
72) Fluorene	8.780	166	332431	51.1240	ng	98
73) 4-Chlorophenyl-phenyle...	8.768	204	155435	50.2136	ng	86
74) Diethylphthalate	8.645	149	329458	50.7372	ng	97
75) 4-Nitroaniline	8.798	138	95373	50.8973	ng	76
76) Atrazine	9.420	200	102083	51.0137	ng	98
78) 4,6-Dinitro-2-methylph...	8.827	198	48741	42.5954	ng	63
79) n-Nitrosodiphenylamine	8.886	169	286559	49.3901	ng	97
81) 1,2-Diphenylhydrazine	8.927	77	362535	50.7475	ng	84
82) 4-Bromophenyl-phenylether	9.262	248	88089	48.8336	ng	86
83) Hexachlorobenzene	9.332	284	91442	48.0981	ng	69
84) N-Octadecane	9.597	57	169129	50.1834	ng	77
85) Pentachlorophenol	9.538	266	46632	43.1483	ng	98
86) Phenanthrene	9.773	178	465739	49.6860	ng	100
87) Anthracene	9.832	178	479866	50.2786	ng	99
88) Carbazole	10.002	167	467797	50.0094	ng	98
89) Di-n-butylphthalate	10.378	149	579168	49.6651	ng	98
90) Fluoranthene	11.113	202	501318	48.6462	ng	94
92) Pyrene	11.383	202	504613	52.7249	ng	89
93) Benzidine	11.271	184	270719	50.5697	ng	88
95) 4,4'-DDE	11.495	246	100884	51.5169	ng	95
96) 4,4'-DDD	11.900	235	187769	51.7427	ng	93
97) Butylbenzylphthalate	12.153	149	239878	51.0107	ng	77
98) 4,4'-DDT	12.258	235	133852	49.7751	ng	95
99) 3,3'-Dichlorobenzidine	12.781	252	155839	50.7234	ng	96
100) Benzo[a]anthracene	12.811	228	412135	48.7649	ng	99
101) Chrysene	12.858	228	371768	50.1968	ng	98
102) bis(2-Ethylhexyl)phtha...	12.852	149	313820	52.9867	ng	93
104) Di-n-octylphthalate	13.604	149	552047	51.4532	ng	100
105) Benzo[b]fluoranthene	14.039	252	401630	49.9821	ng	96
106) Benzo[k]fluoranthene	14.068	252	342363m	46.2961	ng	
107) Benzo[a]pyrene	14.409	252	336663	48.6179	ng	92
108) Indeno[1,2,3-cd]pyrene	15.860	276	407485	50.7166	ng	84
109) Dibenzo[a,h]anthracene	15.878	278	349147	52.3107	ng	89
110) Benzo[g,h,i]perylene	16.260	276	336570	50.8129	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed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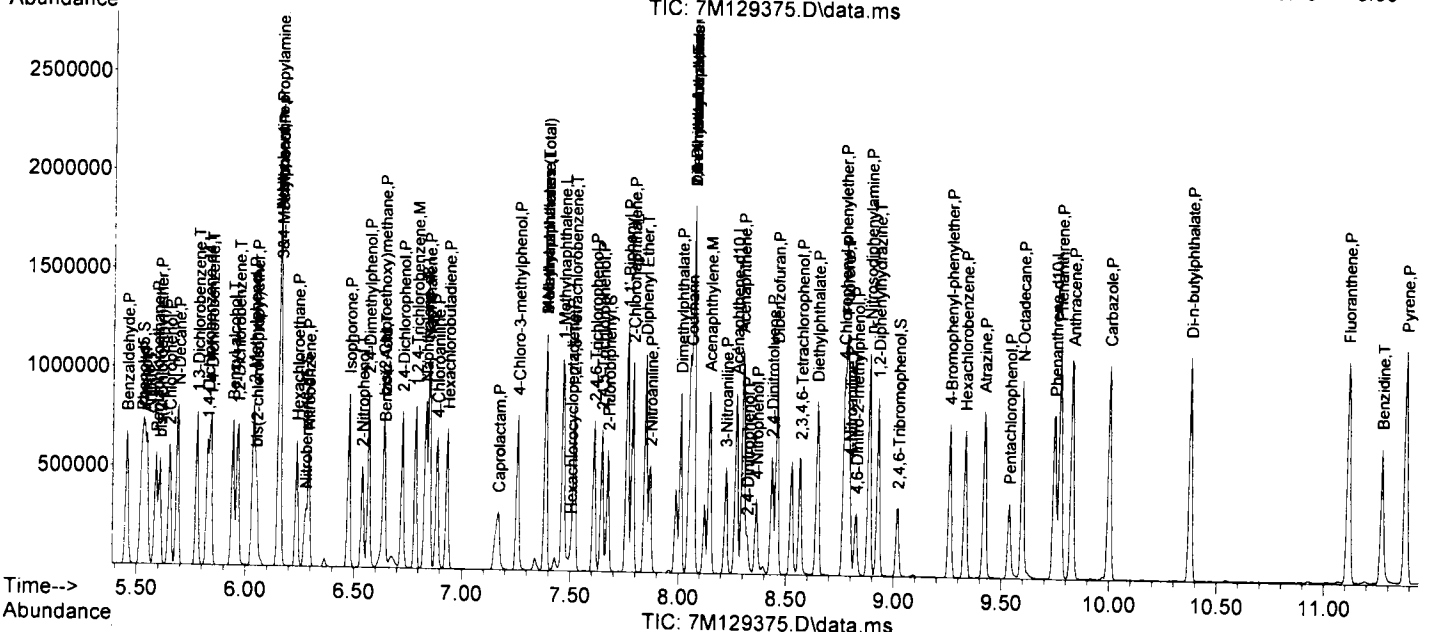
SampleID : CAL BNA@50PPM
Data File: 7M129375.D
Acq On : 06/21/23 14:33
Quant QT Reviewed
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 7M_0619.M
Qt On : 06/21/23 14:50
Qt Upd On: 06/19/23 13:33
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->


Abundance
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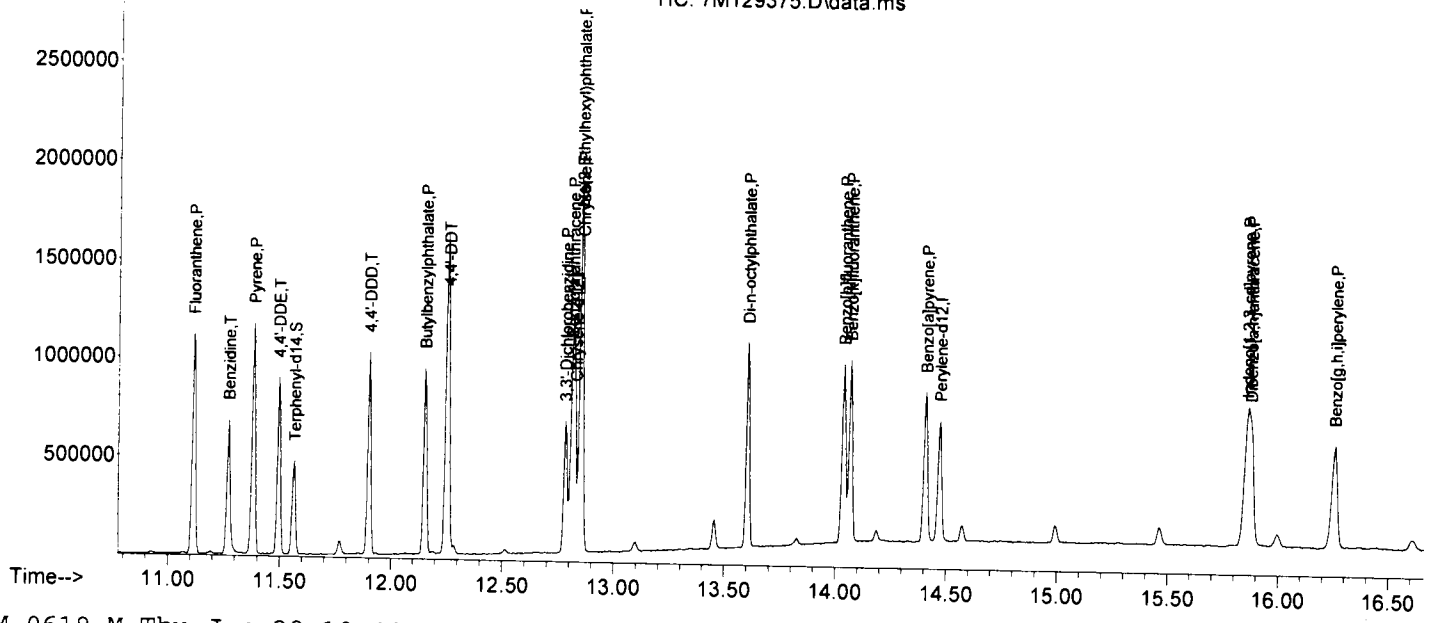
Benzaldehyde,P
Isophorone,P
Caprolactam,P
4-Chloro-3-methylphenol,P
Dimethylphthalate,P
Acenaphthylene,M
2-Nitroaniline,P
2,6-Dinitrotoluene,P
Dibenzofuran,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Chlorophenyl-phenylether,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene-d10,I
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 7M129375.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo(b)fluoranthene,P
Benzo(k)fluoranthene,P
Benzo(a)pyrene,P
Perylene-d12,I
Indeno(1,2,3-cd)pyrene,P
Dibenz(a,h)anthracene,P
Benzo(g,h,i)perylene,P
Time-->

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M122399.D **Instrument:** GCMS 9

Cont Calibration Date/Time 6/21/2023 3:54:00 P Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.58	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.61	47.08	50	**		1.040	0.979	5.85	
Pyridine	1	0		3.07	48.86	50	**		1.959	1.914	2.29	
N-Nitrosodimethylamine	1	0		3.01	48.65	50	**		1.550	1.508	2.71	
2-Fluorophenol	1	0	S	4.61	49.13	50	**		2.335	2.294	1.75	
Benzaldehyde	1	0		5.44	47.87	50	20	0.01	2.098	2.008	4.26	
Aniline	1	0		5.53	48.71	50	**		3.284	3.200	2.58	
Pentachloroethane	1	0		5.58	49.07	50	**	0.05	0.921	0.904	1.87	
bis(2-Chloroethyl)ether	1	0		5.59	47.16	50	20	0.7	2.462	2.322	5.68	
Phenol-d5	1	0	S	5.49	49.40	50	**		2.794	2.761	1.20	
Phenol	1	0		5.50	49.14	50	20	0.8	3.276	3.220	1.73	
2-Chlorophenol	1	0		5.63	48.97	50	20	0.8	2.548	2.496	2.07	
N-Decane	1	0		5.68	48.96	50	**	0.05	2.985	2.923	2.08	
1,3-Dichlorobenzene	1	0		5.77	49.54	50	**		2.828	2.802	0.92	
1,4-Dichlorobenzene-d4	1	0	I	5.81	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.83	48.74	50	20		1.523	1.484	2.52	
1,2-Dichlorobenzene	1	0		5.95	48.54	50	**		1.424	1.382	2.92	
Benzyl alcohol	1	0		5.92	50.93	50	**		0.854	0.870	1.86	
bis(2-chloroisopropyl)ether	1	0		6.04	49.09	50	20	0.01	1.906	1.871	1.83	
2-Methylphenol	1	0		6.01	48.15	50	20	0.7	1.206	1.162	3.70	
Acetophenone	1	0		6.14	49.89	50	20	0.01	1.677	1.673	0.22	
Hexachloroethane	1	0		6.22	48.87	50	20	0.3	0.563	0.550	2.27	
N-Nitroso-di-n-propylamine	1	0		6.14	48.63	50	20	0.5	0.920	0.895	2.73	
3&4-Methylphenol	1	0		6.13	49.12	50	20		1.233	1.211	1.76	
Naphthalene-d8	1	0	I	6.82	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.26	24.42	25	**		0.168	0.165	2.30	
Nitrobenzene	1	0		6.28	48.55	50	20	0.2	0.350	0.340	2.91	
Isophorone	1	0		6.46	49.57	50	20	0.4	0.653	0.647	0.86	
2-Nitrophenol	1	0		6.52	49.93	50	20	0.1	0.179	0.178	0.14	
2,4-Dimethylphenol	1	0		6.55	49.36	50	20	0.2	0.339	0.335	1.27	
Benzoic Acid	1	0		6.60	48.34	50	**		0.206	0.199	3.31	
bis(2-Chloroethoxy)methane	1	0		6.62	49.71	50	20	0.3	0.397	0.394	0.59	
2,4-Dichlorophenol	1	0		6.71	50.33	50	20	0.2	0.290	0.292	0.67	
1,2,4-Trichlorobenzene	1	0		6.77	50.06	50	**		0.325	0.325	0.12	
Naphthalene	1	0		6.84	47.21	50	20	0.7	1.141	1.077	5.57	
4-Chloroaniline	1	0		6.87	47.89	50	20	0.01	0.377	0.361	4.23	
Hexachlorobutadiene	1	0		6.92	48.98	50	20	0.01	0.187	0.183	2.04	
Caprolactam	1	0		7.14	48.15	50	20	0.01	0.103	0.099	3.70	
4-Chloro-3-methylphenol	1	0		7.23	49.94	50	20	0.2	0.275	0.274	0.12	
2-Methylnaphthalene	1	0		7.37	49.32	50	**	0.4	0.705	0.696	1.37	
1-Methylnaphthalene	1	0		7.45	49.96	50	**	0.4	0.660	0.660	0.08	
Methylnaphthalenes	1	0		7.37	98.39	50	**			1.336	96.78	
1,1'-Biphenyl	1	0		7.74	50.04	50	20	0.01	0.867	0.868	0.08	
Acenaphthene-d10	1	0	I	8.25	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.50	49.03	50	20	0.01	0.605	0.594	1.93	
Hexachlorocyclopentadiene	1	0		7.49	48.54	50	20	0.05	0.303	0.294	2.92	
2,4,6-Trichlorophenol	1	0		7.59	50.60	50	20	0.2	0.371	0.375	1.19	
2,4,5-Trichlorophenol	1	0		7.62	51.17	50	20	0.2	0.394	0.403	2.34	
2-Fluorobiphenyl	1	0	S	7.66	24.42	25	**		1.434	1.400	2.34	
2-Chloronaphthalene	1	0		7.77	48.95	50	20	0.8	1.179	1.154	2.10	
1,4-Dimethylnaphthalene	1	0		8.05	49.11	50	**		0.990	0.973	1.77	
Dimethylnaphthalenes	1	0		8.05	49.11	50	20			0.973	1.77	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M122399.D **Instrument:** GCMS 9

Cont Calibration Date/Time 6/21/2023 3:54:00 P Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.83	49.38	50	**		0.830	0.819	1.23	
2-Nitroaniline	1	0		7.84	50.67	50	20	0.01	0.376	0.381	1.35	
Coumarin	1	0		8.02	50.16		**		0.459			
Acenaphthylene	1	0		8.12	49.38	50	20	0.9	1.724	1.702	1.24	
Dimethylphthalate	1	0		7.99	49.15	50	20	0.01	1.279	1.257	1.70	
2,6-Dinitrotoluene	1	0		8.04	51.45	50	20	0.2	0.278	0.286	2.91	
Acenaphthene	1	0		8.28	49.12	50	20	0.9	1.234	1.213	1.77	
3-Nitroaniline	1	0		8.19	52.38	50	20	0.01	0.292	0.306	4.76	
2,4-Dinitrophenol	1	0		8.28	50.93	50	20	0.2	0.113	0.109	1.85	
Dibenzofuran	1	0		8.43	46.25	50	20	0.8	1.772	1.639	7.50	
2,4-Dinitrotoluene	1	0		8.40	51.96	50	20	0.2	0.352	0.366	3.92	
4-Nitrophenol	1	0		8.31	49.24	50	20	0.01	0.217	0.213	1.53	
2,3,4,6-Tetrachlorophenol	1	0		8.53	49.99	50	20	0.01	0.338	0.338	0.01	
Fluorene	1	0		8.75	49.74	50	20	0.9	1.366	1.359	0.52	
4-Chlorophenyl-phenylether	1	0		8.74	49.27	50	20	0.4	0.657	0.647	1.46	
Diethylphthalate	1	0		8.62	49.29	50	20	0.01	1.263	1.245	1.43	
4-Nitroaniline	1	0		8.75	52.50	50	20	0.01	0.328	0.345	4.99	
Atrazine	1	0		9.38	49.58	50	20	0.01	0.362	0.359	0.85	
Phenanthrene-d10	1	0	I	9.71	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.78	50.38	50	20	0.01	0.090	0.091	0.77	
n-Nitrosodiphenylamine	1	0		8.85	49.15	50	20	0.01	0.630	0.619	1.70	
2,4,6-Tribromophenol	1	0	S	8.98	50.50	50	**		0.100	0.101	1.00	
1,2-Diphenylhydrazine	1	0		8.90	48.29	50	**		0.716	0.691	3.43	
4-Bromophenyl-phenylether	1	0		9.23	49.94	50	20	0.1	0.216	0.216	0.12	
Hexachlorobenzene	1	0		9.30	48.56	50	20	0.1	0.236	0.229	2.88	
N-Octadecane	1	0		9.57	50.27	50	**	0.05	0.391	0.393	0.55	
Pentachlorophenol	1	0		9.50	51.20	50	20	0.05	0.135	0.138	2.41	
Phenanthrene	1	0		9.73	49.97	50	20	0.7	1.070	1.069	0.07	
Anthracene	1	0		9.79	49.11	50	20	0.7	1.093	1.074	1.78	
Carbazole	1	0		9.95	49.78	50	20	0.01	1.024	1.019	0.45	
Di-n-butylphthalate	1	0		10.34	48.61	50	20	0.01	1.248	1.214	2.78	
Fluoranthene	1	0		11.06	50.18	50	20	0.6	1.209	1.213	0.36	
Chrysene-d12	1	0	I	12.75	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.32	50.75	50	20	0.6	1.340	1.360	1.50	
Benzidine	1	0		11.21	57.10	50	**		0.474	0.605	14.19	
Terphenyl-d14	1	0	S	11.51	24.93	25	**		0.786	0.784	0.28	
4,4'-DDE	1	0		11.45	49.04		**		0.274			
4,4'-DDD	1	0		11.84	51.56		**		0.515			
Butylbenzylphthalate	1	0		12.10	51.18	50	20	0.01	0.566	0.579	2.36	
4,4'-DDT	1	0		12.20	51.83		**		0.386			
3,3'-Dichlorobenzidine	1	0		12.72	49.89	50	20	0.01	0.390	0.389	0.22	
Benzo[a]anthracene	1	0		12.74	49.68	50	20	0.8	1.279	1.271	0.64	
Chrysene	1	0		12.79	50.97	50	20	0.7	1.188	1.211	1.94	
bis(2-Ethylhexyl)phthalate	1	0		12.79	52.28	50	20	0.01	0.792	0.828	4.57	
Perylene-d12	1	0	I	14.37	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.54	52.68	50	20	0.01	1.318	1.389	5.37	
Benzo[b]fluoranthene	1	0		13.95	48.29	50	20	0.7	1.255	1.213	3.42	
Benzo[k]fluoranthene	1	0		13.98	53.06	50	20	0.7	1.184	1.256	6.12	
Benzo[a]pyrene	1	0		14.31	51.42	50	20	0.7	1.073	1.103	2.84	
Indeno[1,2,3-cd]pyrene	1	0		15.67	50.97	50	20	0.5	1.366	1.392	1.93	
Dibenzo[a,h]anthracene	1	0		15.69	51.17	50	20	0.4	1.079	1.104	2.34	
Benzo[g,h,i]perylene	1	0		16.05	49.83	50	20	0.5	1.125	1.121	0.34	

S-Surrogate Compound
N/O or N/Q - Not applicable for this run

I-Internal Standard Compound
C1-Compound %Diff exceeds limits

** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F.
624 limits are compared against the concentration found.
625 limits are compared against the %DIFF.
524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M122399.D **Instrument:** GCMS 9

Cont Calibration Date/Time 6/21/2023 3:54:00 P Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.679	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.990	0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	

S-Surrogate Compound
N/O or N/Q - Not applicable for this run

I-Internal Standard Compound
C1-Compound %Diff exceeds limits

** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F.
624 limits are compared against the concentration found.

625 limits are compared against the %DIFF.
524.2 limits are compared against the %DIFF

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122399.D Sam Mult : 1 Vial# : 2 Qt On : 06/21/23 16:12
Acq On : 06/21/23 15:54 Misc : A,BNA Qt Upd On: 06/21/23 15:13

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-2123\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.578	96	26640	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.813	152	50083	40.00	ng	0.00
31) Naphthalene-d8	6.819	136	180242	40.00	ng	0.00
50) Acenaphthene-d10	8.248	164	97587	40.00	ng	0.00
77) Phenanthrene-d10	9.707	188	177029	40.00	ng	0.00
91) Chrysene-d12	12.754	240	162620	40.00	ng	0.00
103) Perylene-d12	14.365	264	168107	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.613	112	76379	49.13	ng	0.00
Spiked Amount 100.000			Recovery = 49.13%			
16) Phenol-d5	5.489	99	91933	49.40	ng	0.00
Spiked Amount 100.000			Recovery = 49.40%			
32) Nitrobenzene-d5	6.260	128	18535	24.42	ng	0.00
Spiked Amount 50.000			Recovery = 48.84%			
55) 2-Fluorobiphenyl	7.660	172	85404	24.42	ng	0.00
Spiked Amount 50.000			Recovery = 48.84%			
80) 2,4,6-Tribromophenol	8.983	330	22336	50.50	ng	0.00
Spiked Amount 100.000			Recovery = 50.50%			
94) Terphenyl-d14	11.513	244	79699	24.93	ng	0.00
Spiked Amount 50.000			Recovery = 49.86%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.613	88	32616	47.0774	ng	83
9) Pyridine	3.066	79	63736	48.8566	ng	79
10) N-Nitrosodimethylamine	3.007	74	50211	48.6471	ng	82
12) Benzaldehyde	5.437	77	66876	47.8676	ng	97
13) Aniline	5.531	93	106548	48.7120	ng	93
14) Pentachloroethane	5.578	117	30112	49.0669	ng	79
15) bis(2-Chloroethyl)ether	5.590	93	77335	47.1612	ng	87
17) Phenol	5.501	94	107222	49.1371	ng	83
18) 2-Chlorophenol	5.631	128	83105	48.9656	ng	81
19) N-Decane	5.678	57	97349	48.9606	ng	72
20) 1,3-Dichlorobenzene	5.766	146	93304	49.5417	ng	97
22) 1,4-Dichlorobenzene	5.831	146	92934	48.7404	ng	96
23) 1,2-Dichlorobenzene	5.954	146	86548	48.5394	ng	98
24) Benzyl alcohol	5.925	108	54449	50.9303	ng	67
25) bis(2-chloroisopropyl)...	6.037	45	117118	49.0852	ng	99
26) 2-Methylphenol	6.007	108	72733	48.1479	ng	99
27) Acetophenone	6.137	105	104722	49.8880	ng	78
28) Hexachloroethane	6.225	117	34423	48.8650	ng	83
29) N-Nitroso-di-n-propyla...	6.137	70	56037	48.6336	ng	88
30) 3&4-Methylphenol	6.131	108	75844	49.1202	ng	93
33) Nitrobenzene	6.278	77	76592	48.5459	ng	77
34) Isophorone	6.460	82	145758	49.5686	ng	86
35) 2-Nitrophenol	6.525	139	40168	49.9275	ng	85
36) 2,4-Dimethylphenol	6.548	107	75499	49.3648	ng	91
37) Benzoic Acid	6.601	105	44770m	48.3449	ng	
38) bis(2-Chloroethoxy)met...	6.625	93	88823	49.7070	ng	97
39) 2,4-Dichlorophenol	6.707	162	65707	50.3339	ng	84
40) 1,2,4-Trichlorobenzene	6.772	180	73222	50.0603	ng	97
41) Naphthalene	6.836	128	242706	47.2145	ng	98
42) 4-Chloroaniline	6.872	127	81270m	47.8853	ng	
43) Hexachlorobutadiene	6.925	225	41235	48.9779	ng	97
44) Caprolactam	7.136	113	22354	48.1505	ng	67
45) 4-Chloro-3-methylphenol	7.231	107	61771	49.9377	ng	94
46) 2-Methylnaphthalene	7.372	142	156701	49.3153	ng	98
47) 1-Methylnaphthalene	7.448	142	148676	49.9621	ng	99
48) Methylnaphthalenes (To...	7.372	142	300967m	98.3911	ng	
49) 1,1'-Biphenyl	7.742	154	195559	50.0392	ng	94
51) 1,2,4,5-Tetrachloroben...	7.501	216	72409	49.0337	ng	96
52) Hexachlorocyclopentadiene	7.489	237	35922	48.5405	ng	98
53) 2,4,6-Trichlorophenol	7.589	196	45782m	50.5972	ng	
54) 2,4,5-Trichlorophenol	7.619	196	49126m	51.1702	ng	
56) 2-Chloronaphthalene	7.766	162	140806	48.9513	ng	91
57) 1,4-Dimethylnaphthalene	8.048	156	118676	49.1133	ng	85
58) Dimethylnaphthalenes (...	8.048	156	118676	49.1133	ng	85
59) Diphenyl Ether	7.831	170	99954	49.3838	ng	73
60) 2-Nitroaniline	7.842	65	46432	50.6743	ng	48
61) Coumarin	8.025	146	56218	50.1568	ng	93
62) Acenaphthylene	8.125	152	207646	49.3803	ng	98
63) Dimethylphthalate	7.989	163	153351	49.1508	ng	99
64) 2,6-Dinitrotoluene	8.042	165	34943	51.4529	ng	62
65) Acenaphthene	8.278	153	147920	49.1159	ng	97

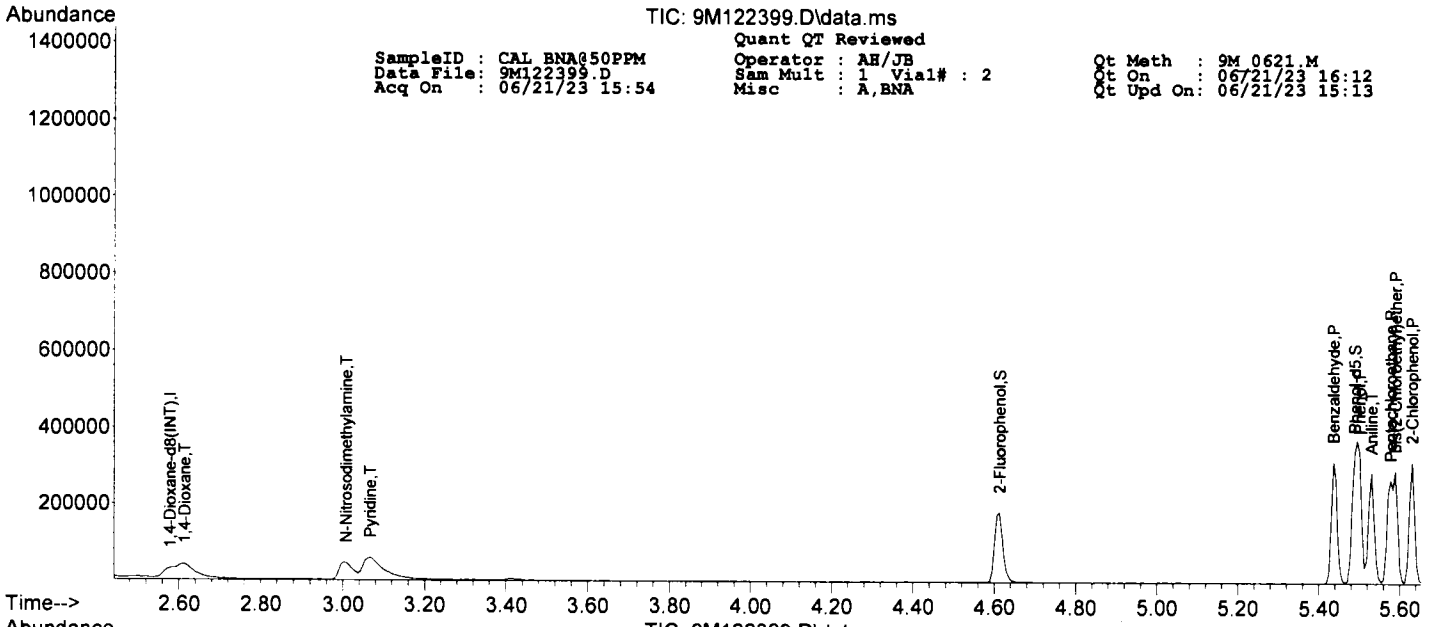
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122399.D Sam Mult : 1 Vial# : 2 Qt On : 06/21/23 16:12
Acq On : 06/21/23 15:54 Misc : A,BNA Qt Upd On: 06/21/23 15:13

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-2123\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.189	138	37368	52.3792	ng	76
67)	2,4-Dinitrophenol	8.283	184	13282	50.9268	ng	48
68)	Dibenzofuran	8.430	168	199933	46.2489	ng	82
69)	2,4-Dinitrotoluene	8.401	165	44666	51.9598	ng	61
70)	4-Nitrophenol	8.313	65	26007	49.2367	ng	90
71)	2,3,4,6-Tetrachlorophenol	8.530	232	41234	49.9946	ng	82
72)	Fluorene	8.754	166	165765	49.7378	ng	98
73)	4-Chlorophenyl-phenyle...	8.742	204	78960	49.2694	ng	82
74)	Diethylphthalate	8.619	149	151872	49.2863	ng	96
75)	4-Nitroaniline	8.754	138	42035	52.4959	ng	69
76)	Atrazine	9.383	200	43805	49.5771	ng	95
78)	4,6-Dinitro-2-methylph...	8.783	198	20054	50.3833	ng	74
79)	n-Nitrosodiphenylamine	8.854	169	137060	49.1522	ng	97
81)	1,2-Diphenylhydrazine	8.895	77	152931	48.2871	ng	87
82)	4-Bromophenyl-phenylether	9.230	248	47796	49.9390	ng	77
83)	Hexachlorobenzene	9.295	284	50689	48.5591	ng	61
84)	N-Octadecane	9.572	57	87045	50.2737	ng	90
85)	Pentachlorophenol	9.495	266	30550	51.2036	ng	94
86)	Phenanthrene	9.730	178	236610	49.9650	ng	100
87)	Anthracene	9.789	178	237641	49.1106	ng	99
88)	Carbazole	9.954	167	225589	49.7756	ng	96
89)	Di-n-butylphthalate	10.342	149	268584	48.6125	ng	97
90)	Fluoranthene	11.060	202	268407	50.1781	ng	94
92)	Pyrene	11.324	202	276375	50.7487	ng	89
93)	Benzidine	11.213	184	122913	57.0951	ng	87
95)	4,4'-DDE	11.448	246	54630	49.0400	ng	93
96)	4,4'-DDD	11.842	235	108030	51.5552	ng	94
97)	Butylbenzylphthalate	12.101	149	117748	51.1800	ng	72
98)	4,4'-DDT	12.201	235	81337	51.8259	ng	97
99)	3,3'-Dichlorobenzidine	12.718	252	79009	49.8877	ng	95
100)	Benzo[a]anthracene	12.742	228	258334	49.6788	ng	99
101)	Chrysene	12.789	228	246097	50.9703	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.795	149	168380	52.2832	ng	96
104)	Di-n-octylphthalate	13.542	149	291895	52.6832	ng	100
105)	Benzo[b]fluoranthene	13.954	252	254794m	48.2891	ng	
106)	Benzo[k]fluoranthene	13.983	252	263966m	53.0588	ng	
107)	Benzo[a]pyrene	14.307	252	231794	51.4195	ng	93
108)	Indeno[1,2,3-cd]pyrene	15.671	276	292576	50.9656	ng	83
109)	Dibenzo[a,h]anthracene	15.695	278	231954	51.1698	ng	91
110)	Benzo[g,h,i]perylene	16.048	276	235526	49.8302	ng	77

(#) = qualifier out of range (m) = manual integration (+) = signals summed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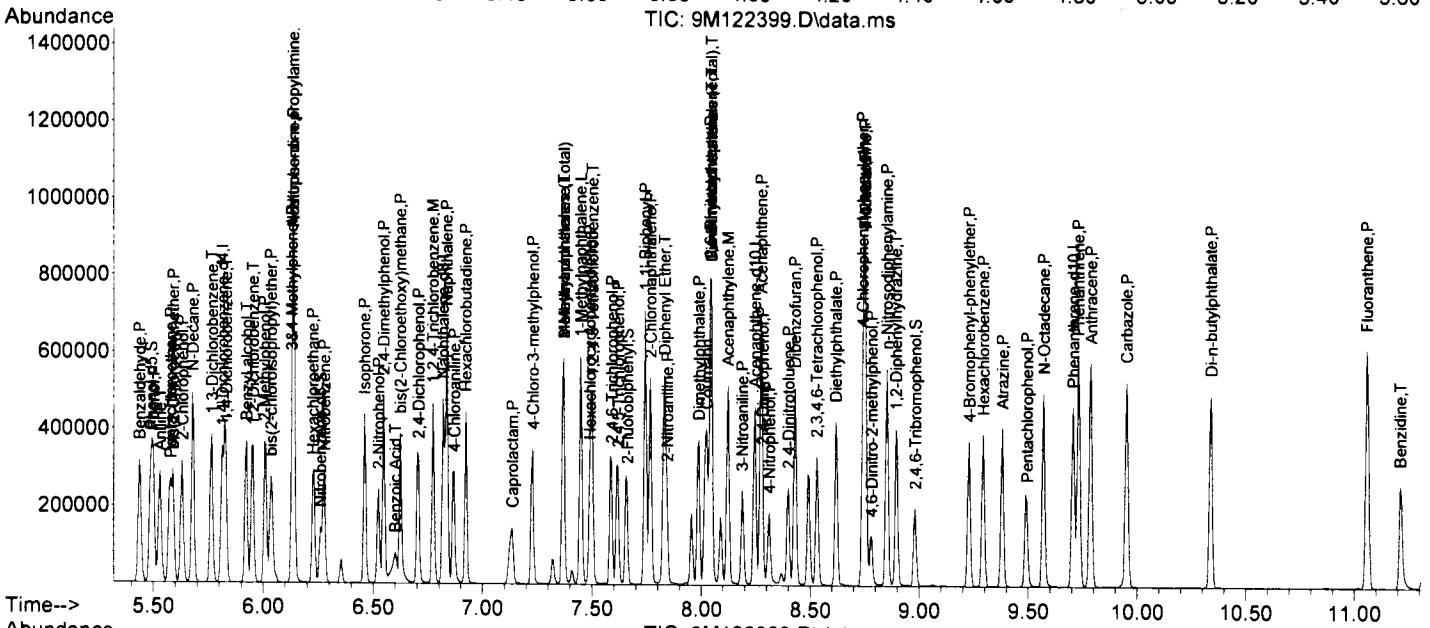
TIC: 9M122399.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@50PPM
Data File: 9M122399.D
Acq On : 06/21/23 15:54
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 9M_0621.M
Qt On : 06/21/23 16:12
Qt Upd On: 06/21/23 15:13
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Phenol-d5,S
Aniline,T
2-Chlorophenol,P
Time-->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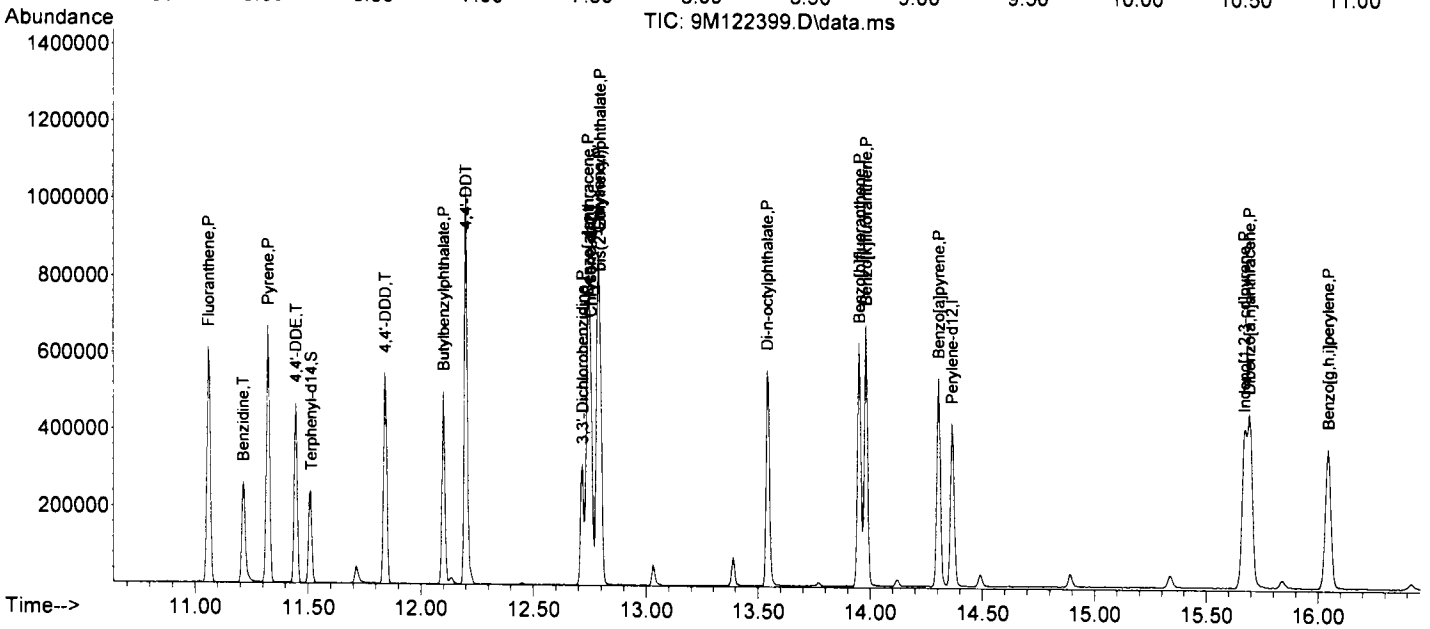
TIC: 9M122399.D\data.ms
Time-->


Abundance
TIC: 9M122399.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M129408.D **Instrument:** GCMS 7

Cont Calibration Date/Time 6/22/2023 9:43:00 A Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.62	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.66	48.41	50	**		1.034	1.001	3.18	
Pyridine	1	0		3.13	50.21	50	**		1.934	1.942	0.43	
N-Nitrosodimethylamine	1	0		3.07	48.84	50	**		1.541	1.505	2.32	
2-Fluorophenol	1	0	S	4.66	51.55	50	**		2.418	2.493	3.10	
Benzaldehyde	1	0		5.46	51.34	50	20	0.01	1.991	2.045	2.68	
Aniline	1	0		5.55	52.64	50	**		3.462	3.645	5.27	
Pentachloroethane	1	0		5.59	51.57	50	**	0.05	0.878	0.906	3.15	
bis(2-Chloroethyl)ether	1	0		5.61	51.01	50	20	0.7	2.384	2.432	2.03	
Phenol-d5	1	0	S	5.53	52.73	50	**		2.857	3.013	5.47	
Phenol	1	0		5.55	53.35	50	20	0.8	3.255	3.473	6.71	
2-Chlorophenol	1	0		5.66	52.80	50	20	0.8	2.449	2.586	5.59	
N-Decane	1	0		5.69	50.61	50	**	0.05	2.322	2.350	1.21	
1,3-Dichlorobenzene	1	0		5.78	51.71	50	**		2.510	2.596	3.42	
1,4-Dichlorobenzene-d4	1	0	I	5.83	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.84	49.91	50	20		1.524	1.521	0.18	
1,2-Dichlorobenzene	1	0		5.97	50.64	50	**		1.453	1.471	1.28	
Benzyl alcohol	1	0		5.95	52.47	50	**		1.030	1.081	4.94	
bis(2-chloroisopropyl)ether	1	0		6.05	49.20	50	20	0.01	1.698	1.671	1.60	
2-Methylphenol	1	0		6.04	50.82	50	20	0.7	1.378	1.401	1.63	
Acetophenone	1	0		6.16	52.84	50	20	0.01	2.002	2.116	5.68	
Hexachloroethane	1	0		6.24	49.47	50	20	0.3	0.626	0.619	1.05	
N-Nitroso-di-n-propylamine	1	0		6.16	51.84	50	20	0.5	0.992	1.029	3.67	
3&4-Methylphenol	1	0		6.17	52.21	50	20		1.352	1.411	4.41	
Naphthalene-d8	1	0	I	6.84	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.28	24.97	25	**		0.185	0.185	0.11	
Nitrobenzene	1	0		6.29	49.79	50	20	0.2	0.384	0.382	0.42	
Isophorone	1	0		6.48	50.48	50	20	0.4	0.734	0.741	0.95	
2-Nitrophenol	1	0		6.54	51.64	50	20	0.1	0.208	0.215	3.27	
2,4-Dimethylphenol	1	0		6.58	50.73	50	20	0.2	0.372	0.377	1.46	
Benzoic Acid	1	0		6.66	50.13	50	**		0.303	0.304	0.26	
bis(2-Chloroethoxy)methane	1	0		6.64	50.35	50	20	0.3	0.430	0.433	0.69	
2,4-Dichlorophenol	1	0		6.73	51.27	50	20	0.2	0.300	0.308	2.54	
1,2,4-Trichlorobenzene	1	0		6.79	49.51	50	**		0.309	0.306	0.99	
Naphthalene	1	0		6.85	50.04	50	20	0.7	1.070	1.071	0.08	
4-Chloroaniline	1	0		6.89	53.62	50	20	0.01	0.404	0.433	7.25	
Hexachlorobutadiene	1	0		6.94	50.16	50	20	0.01	0.158	0.159	0.32	
Caprolactam	1	0		7.19	51.82	50	20	0.01	0.138	0.143	3.65	
4-Chloro-3-methylphenol	1	0		7.26	52.66	50	20	0.2	0.334	0.352	5.32	
2-Methylnaphthalene	1	0		7.39	51.94	50	**	0.4	0.694	0.721	3.88	
1-Methylnaphthalene	1	0		7.47	51.29	50	**	0.4	0.649	0.666	2.58	
Methylnaphthalenes	1	0		7.39	53.62	50	**			0.721	7.24	
1,1'-Biphenyl	1	0		7.76	51.49	50	20	0.01	0.862	0.888	2.98	
Acenaphthene-d10	1	0	I	8.27	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.52	49.15	50	20	0.01	0.508	0.499	1.70	
Hexachlorocyclopentadiene	1	0		7.51	26.67	50	20	0.05	0.145	0.070	46.67	C1
2,4,6-Trichlorophenol	1	0		7.62	49.34	50	20	0.2	0.374	0.369	1.32	
2,4,5-Trichlorophenol	1	0		7.65	49.26	50	20	0.2	0.393	0.387	1.48	
2-Fluorobiphenyl	1	0	S	7.68	24.49	25	**		1.305	1.278	2.03	
2-Chloronaphthalene	1	0		7.79	49.66	50	20	0.8	1.117	1.110	0.68	
1,4-Dimethylnaphthalene	1	0		8.07	50.14	50	**		0.869	0.871	0.29	
Dimethylnaphthalenes	1	0		8.07	50.14	50	20			0.871	0.29	

S-Surrogate Compound
N/O or N/Q - Not applicable for this run

I-Internal Standard Compound
C1-Compound %Diff exceeds limits

** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F.
624 limits are compared against the concentration found.

625 limits are compared against the %DIFF.
524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M129408.D **Instrument:** GCMS 7

Cont Calibration Date/Time 6/22/2023 9:43:00 A Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.85	49.44	50	**		0.808	0.799	1.12	
2-Nitroaniline	1	0		7.87	50.37	50	20	0.01	0.417	0.420	0.73	
Coumarin	1	0		8.06	51.09		**		0.459			
Acenaphthylene	1	0		8.15	50.13	50	20	0.9	1.578	1.582	0.26	
Dimethylphthalate	1	0		8.02	50.40	50	20	0.01	1.312	1.323	0.80	
2,6-Dinitrotoluene	1	0		8.07	50.60	50	20	0.2	0.287	0.290	1.21	
Acenaphthene	1	0		8.30	49.94	50	20	0.9	1.074	1.073	0.12	
3-Nitroaniline	1	0		8.23	52.48	50	20	0.01	0.338	0.355	4.96	
2,4-Dinitrophenol	1	0		8.33	51.05	50	20	0.2	0.160	0.163	2.10	
Dibenzofuran	1	0		8.46	49.84	50	20	0.8	1.612	1.606	0.33	
2,4-Dinitrotoluene	1	0		8.44	51.85	50	20	0.2	0.417	0.432	3.71	
4-Nitrophenol	1	0		8.37	48.39	50	20	0.01	0.257	0.249	3.22	
2,3,4,6-Tetrachlorophenol	1	0		8.57	48.65	50	20	0.01	0.302	0.294	2.70	
Fluorene	1	0		8.79	50.61	50	20	0.9	1.286	1.301	1.21	
4-Chlorophenyl-phenylether	1	0		8.77	50.68	50	20	0.4	0.612	0.621	1.37	
Diethylphthalate	1	0		8.65	51.35	50	20	0.01	1.284	1.319	2.70	
4-Nitroaniline	1	0		8.80	50.97	50	20	0.01	0.371	0.378	1.94	
Atrazine	1	0		9.43	51.83	50	20	0.01	0.396	0.410	3.66	
Phenanthrene-d10	1	0	I	9.75	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.83	49.77	50	20	0.01	0.130	0.129	0.46	
n-Nitrosodiphenylamine	1	0		8.89	49.92	50	20	0.01	0.658	0.657	0.17	
2,4,6-Tribromophenol	1	0	S	9.03	48.10	50	**		0.090	0.086	3.80	
1,2-Diphenylhydrazine	1	0		8.93	50.38	50	**		0.811	0.817	0.75	
4-Bromophenyl-phenylether	1	0		9.27	48.72	50	20	0.1	0.205	0.199	2.57	
Hexachlorobenzene	1	0		9.34	48.96	50	20	0.1	0.216	0.211	2.08	
N-Octadecane	1	0		9.60	49.67	50	**	0.05	0.382	0.380	0.66	
Pentachlorophenol	1	0		9.54	46.05	50	20	0.05	0.123	0.113	7.89	
Phenanthrene	1	0		9.78	49.14	50	20	0.7	1.064	1.045	1.72	
Anthracene	1	0		9.84	49.85	50	20	0.7	1.083	1.080	0.30	
Carbazole	1	0		10.01	49.95	50	20	0.01	1.061	1.060	0.11	
Di-n-butylphthalate	1	0		10.38	50.69	50	20	0.01	1.323	1.341	1.37	
Fluoranthene	1	0		11.12	48.83	50	20	0.6	1.169	1.142	2.35	
Chrysene-d12	1	0	I	12.83	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.39	51.83	50	20	0.6	1.491	1.545	3.66	
Benzidine	1	0		11.28	47.15	50	**		0.834	0.786	5.71	
Terphenyl-d14	1	0	S	11.57	25.70	25	**		0.868	0.893	2.80	
4,4'-DDE	1	0		11.50	51.99		**		0.305			
4,4'-DDD	1	0		11.91	52.47		**		0.565			
Butylbenzylphthalate	1	0		12.16	52.93	50	20	0.01	0.733	0.776	5.87	
4,4'-DDT	1	0		12.26	51.91		**		0.419			
3,3'-Dichlorobenzidine	1	0		12.79	52.83	50	20	0.01	0.479	0.506	5.67	
Benzo[a]anthracene	1	0		12.82	50.01	50	20	0.8	1.317	1.317	0.02	
Chrysene	1	0		12.87	51.97	50	20	0.7	1.154	1.199	3.94	
bis(2-Ethylhexyl)phthalate	1	0		12.86	54.48	50	20	0.01	0.923	1.005	8.96	
Perylene-d12	1	0	I	14.49	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.61	51.44	50	20	0.01	1.714	1.763	2.88	
Benzo[b]fluoranthene	1	0		14.05	52.74	50	20	0.7	1.284	1.354	5.48	
Benzo[k]fluoranthene	1	0		14.05	57.31	50	20	0.7	1.181	1.354	14.61	
Benzo[a]pyrene	1	0		14.42	48.95	50	20	0.7	1.106	1.083	2.09	
Indeno[1,2,3-cd]pyrene	1	0		15.88	50.54	50	20	0.5	1.284	1.298	1.09	
Dibenzo[a,h]anthracene	1	0		15.90	51.21	50	20	0.4	1.066	1.092	2.42	
Benzo[g,h,i]perylene	1	0		16.28	50.08	50	20	0.5	1.058	1.060	0.17	

S-Surrogate Compound
N/O or N/Q - Not applicable for this run

I-Internal Standard Compound
C1-Compound %Diff exceeds limits

** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F.
624 limits are compared against the concentration found.

625 limits are compared against the %DIFF.
524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M129408.D **Instrument:** GCMS 7

Cont Calibration Date/Time 6/22/2023 9:43:00 A Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.672	0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.869	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound
N/O or N/Q - Not applicable for this run
I-Internal Standard Compound
C1-Compound %Diff exceeds limits
** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F.
624 limits are compared against the concentration found.
625 limits are compared against the %DIFF.
524.2 limits are compared against the %DIFF

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129408.D Sam Mult : 1 Vial# : 2 Qt On : 06/22/23 10:00
Acq On : 06/22/23 09:43 Misc : A,BNA Qt Upd On: 06/19/23 13:33

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-22-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.622	96	60390	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.830	152	101269	40.00	ng	0.00
31) Naphthalene-d8	6.835	136	421098	40.00	ng	0.00
50) Acenaphthene-d10	8.275	164	261573	40.00	ng	0.00
77) Phenanthrene-d10	9.749	188	461073	40.00	ng	0.00
91) Chrysene-d12	12.834	240	342013	40.00	ng	0.01
103) Perylene-d12	14.485	264	340225	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.655	112	188185	51.55	ng	0.01
Spiked Amount 100.000			Recovery = 51.55%			
16) Phenol-d5	5.531	99	227422	52.73	ng	0.01
Spiked Amount 100.000			Recovery = 52.73%			
32) Nitrobenzene-d5	6.283	128	48594	24.97	ng	0.00
Spiked Amount 50.000			Recovery = 49.94%			
55) 2-Fluorobiphenyl	7.675	172	208984	24.49	ng	0.00
Spiked Amount 50.000			Recovery = 48.98%			
80) 2,4,6-Tribromophenol	9.027	330	49645	48.10	ng	0.00
Spiked Amount 100.000			Recovery = 48.10%			
94) Terphenyl-d14	11.571	244	190826	25.70	ng	0.01
Spiked Amount 50.000			Recovery = 51.40%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.664	88	75568	48.4084	ng	99
9) Pyridine	3.134	79	146599	50.2135	ng	70
10) N-Nitrosodimethylamine	3.075	74	113588	48.8383	ng	75
12) Benzaldehyde	5.460	77	154351	51.3393	ng	73
13) Aniline	5.554	93	275141	52.6359	ng	92
14) Pentachloroethane	5.590	117	68356	51.5742	ng	85
15) bis(2-Chloroethyl)ether	5.613	93	183620	51.0143	ng	77
17) Phenol	5.548	94	262185	53.3534	ng	82
18) 2-Chlorophenol	5.660	128	195179	52.7954	ng	79
19) N-Decane	5.689	57	177371	50.6057	ng	90
20) 1,3-Dichlorobenzene	5.783	146	195990	51.7111	ng	96
22) 1,4-Dichlorobenzene	5.842	146	192600	49.9098	ng	98
23) 1,2-Dichlorobenzene	5.966	146	186241	50.6386	ng	98
24) Benzyl alcohol	5.948	108	136830	52.4692	ng	74
25) bis(2-chloroisopropyl)...	6.054	45	211494	49.1990	ng	93
26) 2-Methylphenol	6.042	108	177317	50.8151	ng	96
27) Acetophenone	6.160	105	267795	52.8402	ng	69
28) Hexachloroethane	6.236	117	78386	49.4728	ng	79
29) N-Nitroso-di-n-propyla...	6.160	70	130243	51.8365	ng	81
30) 3&4-Methylphenol	6.165	108	178647	52.2069	ng	95
33) Nitrobenzene	6.295	77	201027	49.7913	ng	80
34) Isophorone	6.483	82	390127	50.4767	ng	87
35) 2-Nitrophenol	6.541	139	113104	51.6370	ng	91
36) 2,4-Dimethylphenol	6.577	107	198636	50.7317	ng	94
37) Benzoic Acid	6.665	105	160003	50.1318	ng	43
38) bis(2-Chloroethoxy)met...	6.641	93	227756	50.3460	ng	97
39) 2,4-Dichlorophenol	6.729	162	162084	51.2691	ng	89
40) 1,2,4-Trichlorobenzene	6.788	180	160874	49.5057	ng	99
41) Naphthalene	6.853	128	563521	50.0404	ng	99
42) 4-Chloroaniline	6.888	127	228031m	53.6234	ng	
43) Hexachlorobutadiene	6.935	225	83622	50.1616	ng	97
44) Caprolactam	7.188	113	75333	51.8245	ng	68
45) 4-Chloro-3-methylphenol	7.264	107	185220	52.6592	ng	85
46) 2-Methylnaphthalene	7.387	142	379433	51.9384	ng	99
47) 1-Methylnaphthalene	7.470	142	350519	51.2895	ng	92
48) Methylnaphthalenes (To...	7.387	142	379433	53.6178	ng	51
49) 1,1'-Biphenyl	7.764	154	467163	51.4887	ng	95
51) 1,2,4,5-Tetrachloroben...	7.523	216	163177	49.1519	ng	98
52) Hexachlorocyclopentadiene	7.511	237	22876	26.6674	ng	98
53) 2,4,6-Trichlorophenol	7.617	196	120803	49.3423	ng	99
54) 2,4,5-Trichlorophenol	7.652	196	126635	49.2576	ng	97
56) 2-Chloronaphthalene	7.793	162	362882	49.6603	ng	91
57) 1,4-Dimethylnaphthalene	8.075	156	284819	50.1430	ng	87
58) Dimethylnaphthalenes (...	8.075	156	284819	50.1430	ng	87
59) Diphenyl Ether	7.852	170	261353	49.4407	ng	75
60) 2-Nitroaniline	7.869	65	137286	50.3672	ng	60
61) Coumarin	8.063	146	153231	51.0923	ng	69
62) Acenaphthylene	8.151	152	517321	50.1277	ng	99
63) Dimethylphthalate	8.016	163	432418	50.4014	ng	98
64) 2,6-Dinitrotoluene	8.075	165	94872	50.6047	ng	68
65) Acenaphthene	8.304	153	350692	49.9392	ng	96

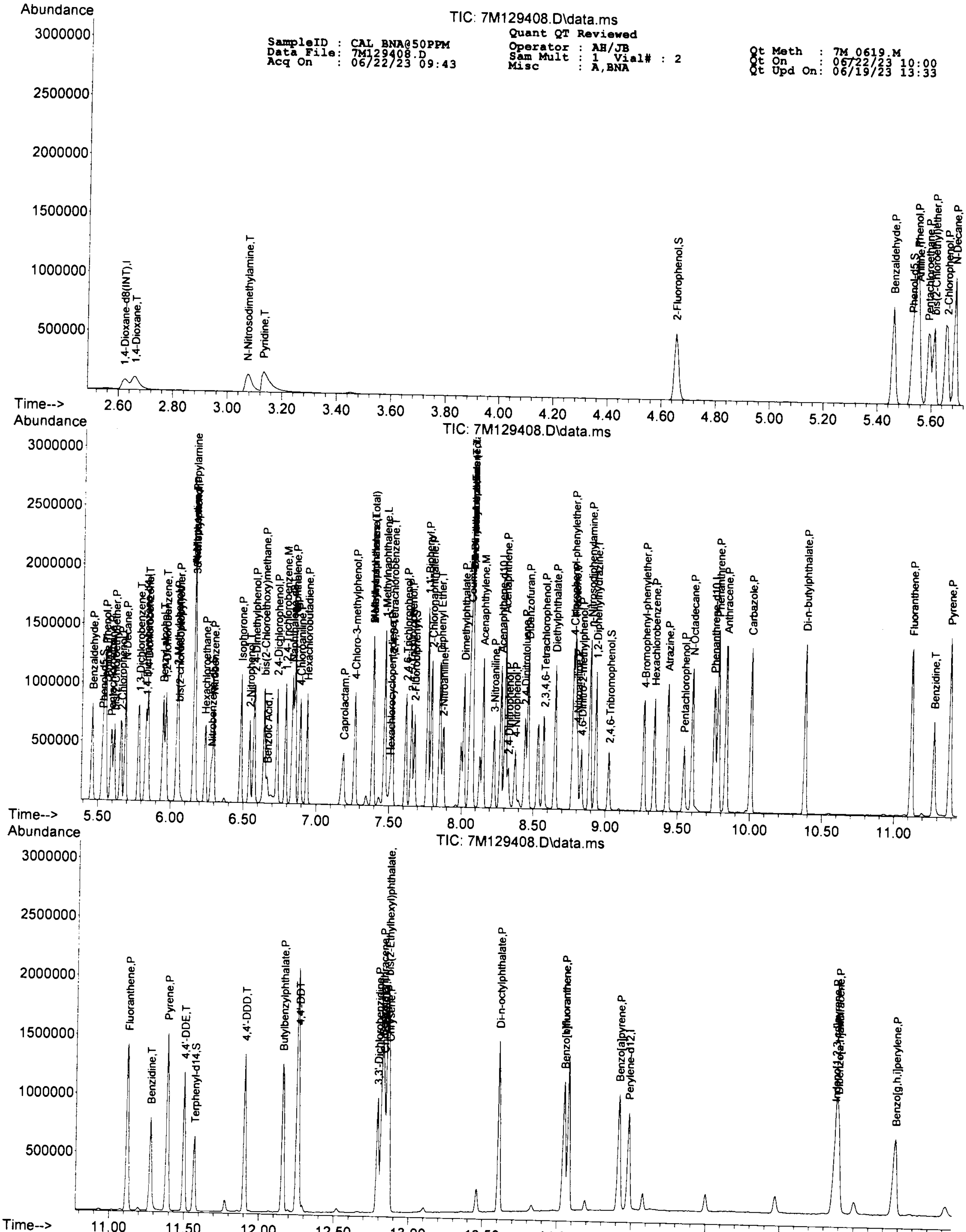
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129408.D Sam Mult : 1 Vial# : 2 Qt On : 06/22/23 10:00
Acq On : 06/22/23 09:43 Misc : A,BNA Qt Upd On: 06/19/23 13:33

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-22-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) 3-Nitroaniline	8.228	138	115950	52.4823	ng	80
67) 2,4-Dinitrophenol	8.328	184	53393	51.0490	ng	37
68) Dibenzofuran	8.463	168	525254	49.8359	ng	85
69) 2,4-Dinitrotoluene	8.439	165	141322	51.8540	ng	68
70) 4-Nitrophenol	8.375	65	81459	48.3896	ng	82
71) 2,3,4,6-Tetrachlorophenol	8.574	232	96082	48.6508	ng	86
72) Fluorene	8.786	166	425531	50.6052	ng	99
73) 4-Chlorophenyl-phenyle...	8.774	204	202888	50.6839	ng	85
74) Diethylphthalate	8.651	149	431177	51.3480	ng	96
75) 4-Nitroaniline	8.803	138	123507	50.9685	ng	78
76) Atrazine	9.432	200	134124	51.8299	ng	97
78) 4,6-Dinitro-2-methylph...	8.833	198	74484	49.7687	ng	58
79) n-Nitrosodiphenylamine	8.892	169	378784	49.9164	ng	97
81) 1,2-Diphenylhydrazine	8.933	77	470684	50.3755	ng	82
82) 4-Bromophenyl-phenylether	9.268	248	114935	48.7163	ng	85
83) Hexachlorobenzene	9.338	284	121738	48.9592	ng	68
84) N-Octadecane	9.603	57	218937	49.6691	ng	72
85) Pentachlorophenol	9.544	266	65096	46.0531	ng	96
86) Phenanthrene	9.779	178	602436	49.1392	ng	98
87) Anthracene	9.838	178	622243	49.8481	ng	100
88) Carbazole	10.008	167	611054	49.9458	ng	97
89) Di-n-butylphthalate	10.384	149	773062	50.6857	ng	98
90) Fluoranthene	11.124	202	658096	48.8259	ng	90
92) Pyrene	11.389	202	660687	51.8282	ng	89
93) Benzidine	11.277	184	336165	47.1452	ng	88
95) 4,4'-DDE	11.500	246	135598	51.9869	ng	95
96) 4,4'-DDD	11.906	235	253604	52.4681	ng	93
97) Butylbenzylphthalate	12.158	149	331556	52.9348	ng	77
98) 4,4'-DDT	12.264	235	185927	51.9091	ng	96
99) 3,3'-Dichlorobenzidine	12.793	252	216204	52.8335	ng	95
100) Benzo[a]anthracene	12.822	228	562957	50.0099	ng	99
101) Chrysene	12.869	228	512690	51.9723	ng	98
102) bis(2-Ethylhexyl)phtha...	12.858	149	429770	54.4798	ng	92
104) Di-n-octylphthalate	13.610	149	749899	51.4375	ng	99
105) Benzo[b]fluoranthene	14.050	252	575835	52.7384	ng	93
106) Benzo[k]fluoranthene	14.050	252	575835	57.3054	ng	93
107) Benzo[a]pyrene	14.421	252	460630	48.9545	ng	93
108) Indeno[1,2,3-cd]pyrene	15.878	276	551815	50.5443	ng	100
109) Dibenzo[a,h]anthracene	15.895	278	464460	51.2119	ng	90
110) Benzo[g,h,i]perylene	16.283	276	450781	50.0846	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 7M129408.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@50PPM
Data File: 7M129408.D
Acq On : 06/22/23 09:43
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 7M_0619.M
Qt On : 06/22/23 10:00
Qt Upd On: 06/19/23 13:33
3000000
2500000
2000000
1500000
1000000
500000
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Phenol-d5,S
Aniline,T
Phenol,P
Pentachloroethane,P
bis(2-Chloroethyl)ether,P
2-Chlorophenol,P
N-Decane,P
Time-->
2.60 2.80 3.00 3.20 3.40 3.60 3.80 4.00 4.20 4.40 4.60 4.80 5.00 5.20 5.40 5.60
Abundance
TIC: 7M129408.D\data.ms
Benzaldehyde,P
1,3-Dichlorobenzene,T
Benzyl alcohol,T
Hexachloroethane,P
Nitrobenzene,P
Isophorone,P
2-Nitrophenol,P
bis(2-Chloroethoxy)methane,P
Benzoic Acid,T
2,4-Dichlorophenol,P
Hexachlorobutadiene,P
Caprolactam,P
4-Chloro-3-methylphenol,P
1-Methylnaphthalene,L
Hexachlorocyclopentadiene,P
2,4,6-Trichlorophenol,P
2-Chloronaphthalene,P
1,1'-Biphenyl,P
Diphenyl Ether,T
2-Nitroaniline,P
Dimethylphthalate,P
Acenaphthylene,M
3-Nitroaniline,P
Acenaphthene,P
2,4-Dinitrophenol,P
4-Nitrophenol,P
2,4-Dinitrotoluene,P
Dibenzofuran,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Chlorophenyl-phenylether,P
4-Nitroaniline,P
N-Nitrosodiphenylamine,P
1,2-Diphenylhydrazine,T
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene-d10,I
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00
Abundance
TIC: 7M129408.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
3,3'-Dichlorobenzidine,P
Chrysene,P
bis(2-Ethylhexyl)phthalate,
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->
11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50 15.00 15.50 16.00 16.50

GC/MS Base Neutral/Acid Extractable Data
Raw QC Data

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 7
Data File: 7M129283.D
Analysis Date: 06/19/23 08:46
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.031 to 10.037 min

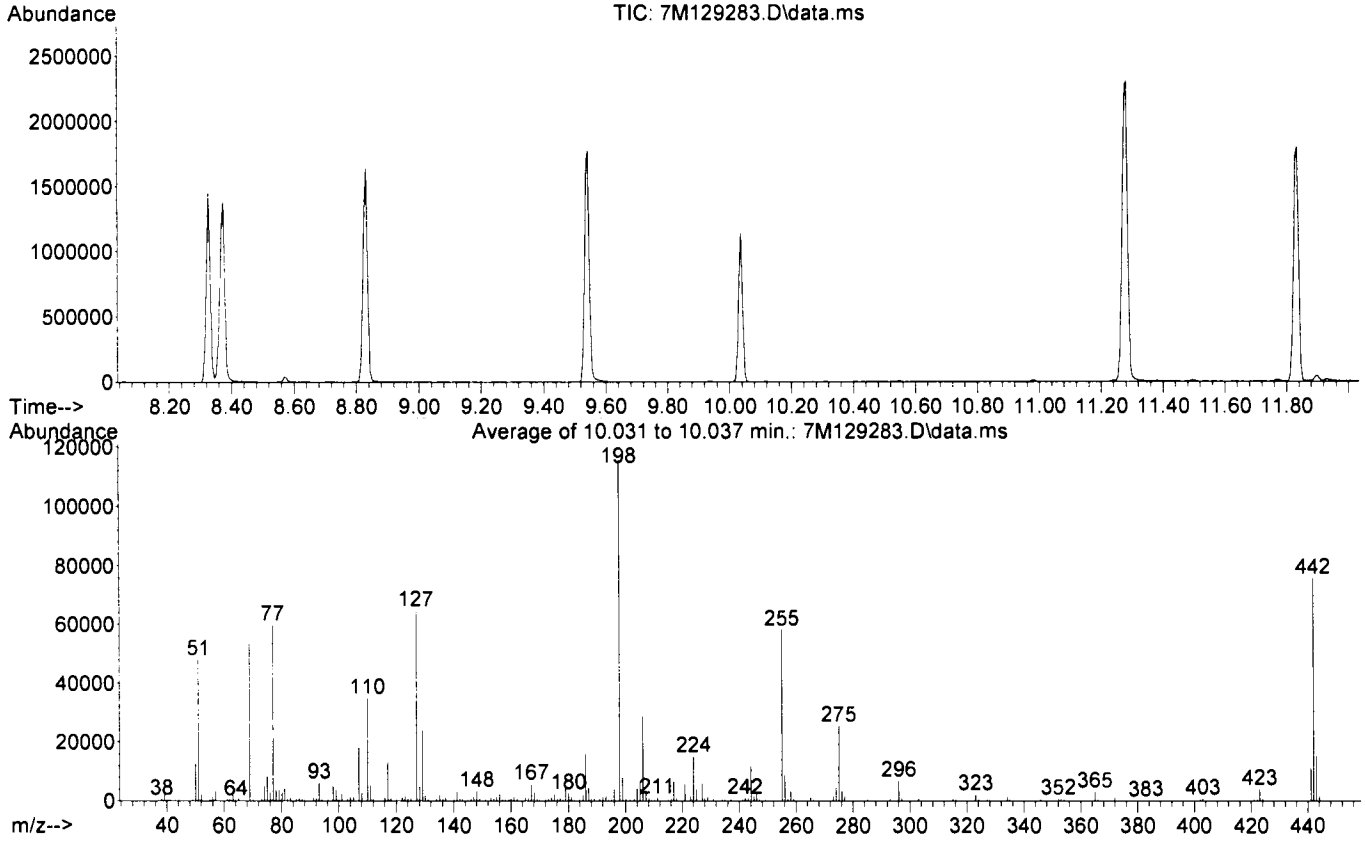
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	41.6	47976	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	46.4	53544	PASS
70	69	0.00	2	0.7	385	PASS
127	198	40	60	56.0	64604	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	115428	PASS
199	198	5	9	6.8	7905	PASS
275	198	10	30	21.9	25328	PASS
365	198	1	100	2.7	3097	PASS
441	443	0.01	100	72.8	11050	PASS
442	198	40	100	65.4	75472	PASS
443	442	17	23	20.1	15179	PASS

Data File	Sample Number	Analysis Date:
7M129284.D	CAL BNA@2PPM	06/19/23 09:10
7M129285.D	CAL BNA@196PP	06/19/23 09:36
7M129286.D	CAL BNA@160PP	06/19/23 10:00
7M129287.D	CAL BNA@120PP	06/19/23 10:23
7M129288.D	CAL BNA@80PPM	06/19/23 10:47
7M129289.D	CAL BNA@20PPM	06/19/23 11:10
7M129290.D	CAL BNA@10PPM	06/19/23 11:34
7M129291.D	CAL BNA@0.5PP	06/19/23 11:57
7M129292.D	CAL BNA@50PPM	06/19/23 12:21
7M129293.D	CAL BNA@80PPM	06/19/23 13:08
7M129294.D	ICV BNA@50PPM	06/19/23 13:32

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Data File : 7M129283.D
Acq On : 19 Jun 2023 8:46
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2023\GCMS_7\METHODQT\7M_0511.M
Title : @GCMS_7,mg,625,8270
Last Update : Thu May 11 14:52:23 2023



Spectrum Information: Average of 10.031 to 10.037 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.6	47976	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	46.4	53544	PASS
70	69	0.00	2	0.7	385	PASS
127	198	40	60	56.0	64604	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	115428	PASS
199	198	5	9	6.8	7905	PASS
275	198	10	30	21.9	25328	PASS
365	198	1	100	2.7	3097	PASS
441	443	0.01	100	72.8	11050	PASS
442	198	40	100	65.4	75472	PASS
443	442	17	23	20.1	15179	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 9M122387.D
Instrument: GCMS 9 **Analysis Date:** 06/21/23 11:22
Method: EPA 8270E

Tune Scan/Time Range: Average of 9.989 to 10.001 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	45.3	17656	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	41.2	16030	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	47.9	18652	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	38941	PASS
199	198	5	9	6.8	2646	PASS
275	198	10	30	25.6	9962	PASS
365	198	1	100	3.3	1290	PASS
441	443	0.01	100	81.7	4698	PASS
442	198	40	100	78.8	30669	PASS
443	442	17	23	18.8	5751	PASS

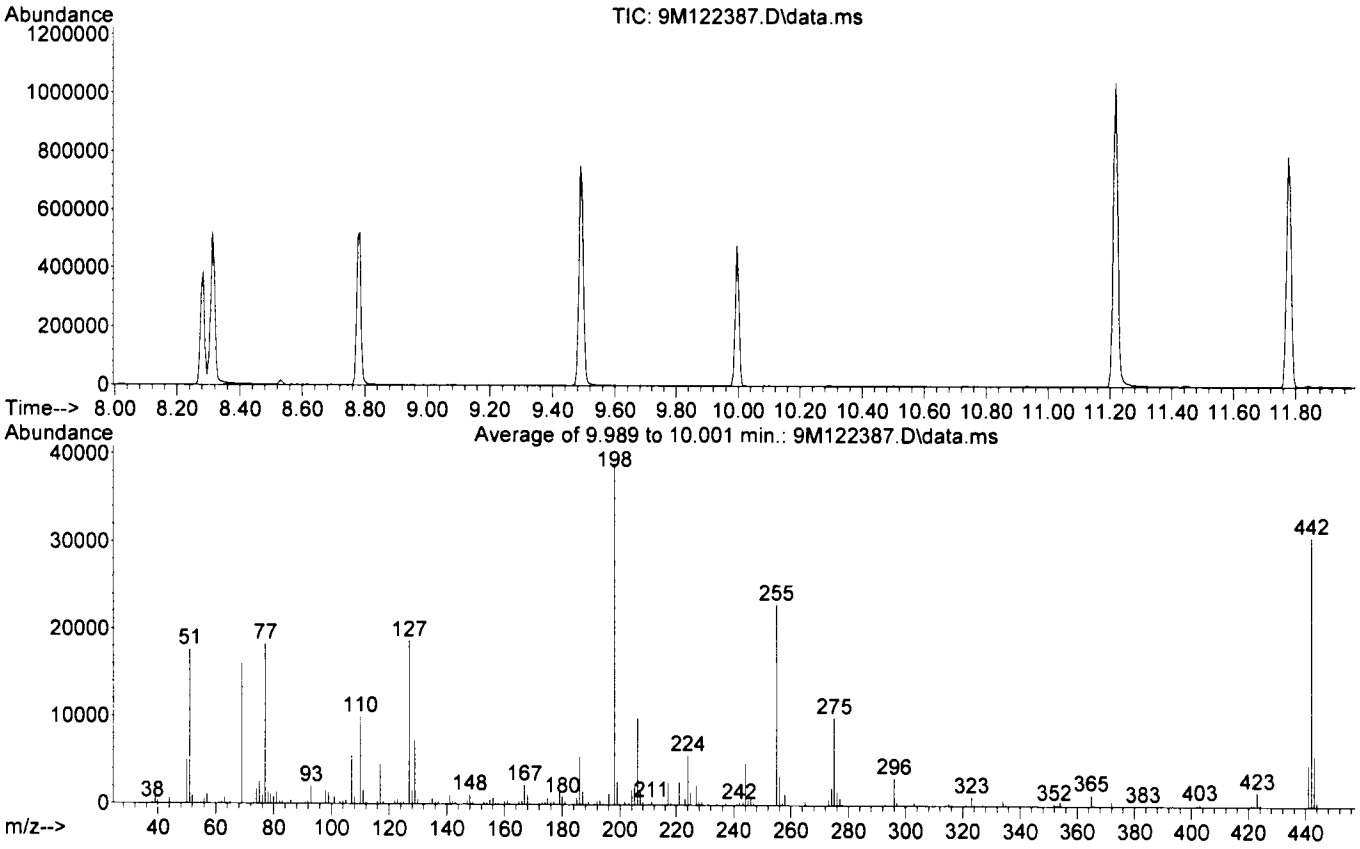
Data File	Sample Number	Analysis Date:
9M122388.D	CAL BNA@10PPM	06/21/23 11:44
9M122389.D	CAL BNA@2PPM	06/21/23 12:06
9M122390.D	CAL BNA@196PP	06/21/23 12:29
9M122391.D	CAL BNA@160PP	06/21/23 12:51
9M122392.D	CAL BNA@120PP	06/21/23 13:14
9M122393.D	CAL BNA@80PPM	06/21/23 13:36
9M122394.D	CAL BNA@20PPM	06/21/23 13:59
9M122395.D	CAL BNA@0.5PP	06/21/23 14:21
9M122396.D	CAL BNA@50PPM	06/21/23 14:44
9M122397.D	ICV BNA@50PPM	06/21/23 15:07

DFTPP

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Data File : 9M122387.D
Acq On : 21 Jun 2023 11:22
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2023\GCMS_9\METHODQT\9M_0621.M
Title : @GCMS_9,mg,625,8270
Last Update : Wed Jun 21 15:11:51 2023



Spectrum Information: Average of 9.989 to 10.001 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	45.3	17656	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	41.2	16030	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	47.9	18652	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	38941	PASS
199	198	5	9	6.8	2646	PASS
275	198	10	30	25.6	9962	PASS
365	198	1	100	3.3	1290	PASS
441	443	0.01	100	81.7	4698	PASS
442	198	40	100	78.8	30669	PASS
443	442	17	23	18.8	5751	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 7
Data File: 7M129374.D
Analysis Date: 06/21/23 14:09
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.020 to 10.031 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	41.3	37642	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	46.7	42571	PASS
70	69	0.00	2	0.8	342	PASS
127	198	40	60	57.0	52027	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	91232	PASS
199	198	5	9	7.2	6533	PASS
275	198	10	30	22.2	20290	PASS
365	198	1	100	2.4	2158	PASS
441	443	0.01	100	80.0	8005	PASS
442	198	40	100	55.4	50527	PASS
443	442	17	23	19.8	10012	PASS

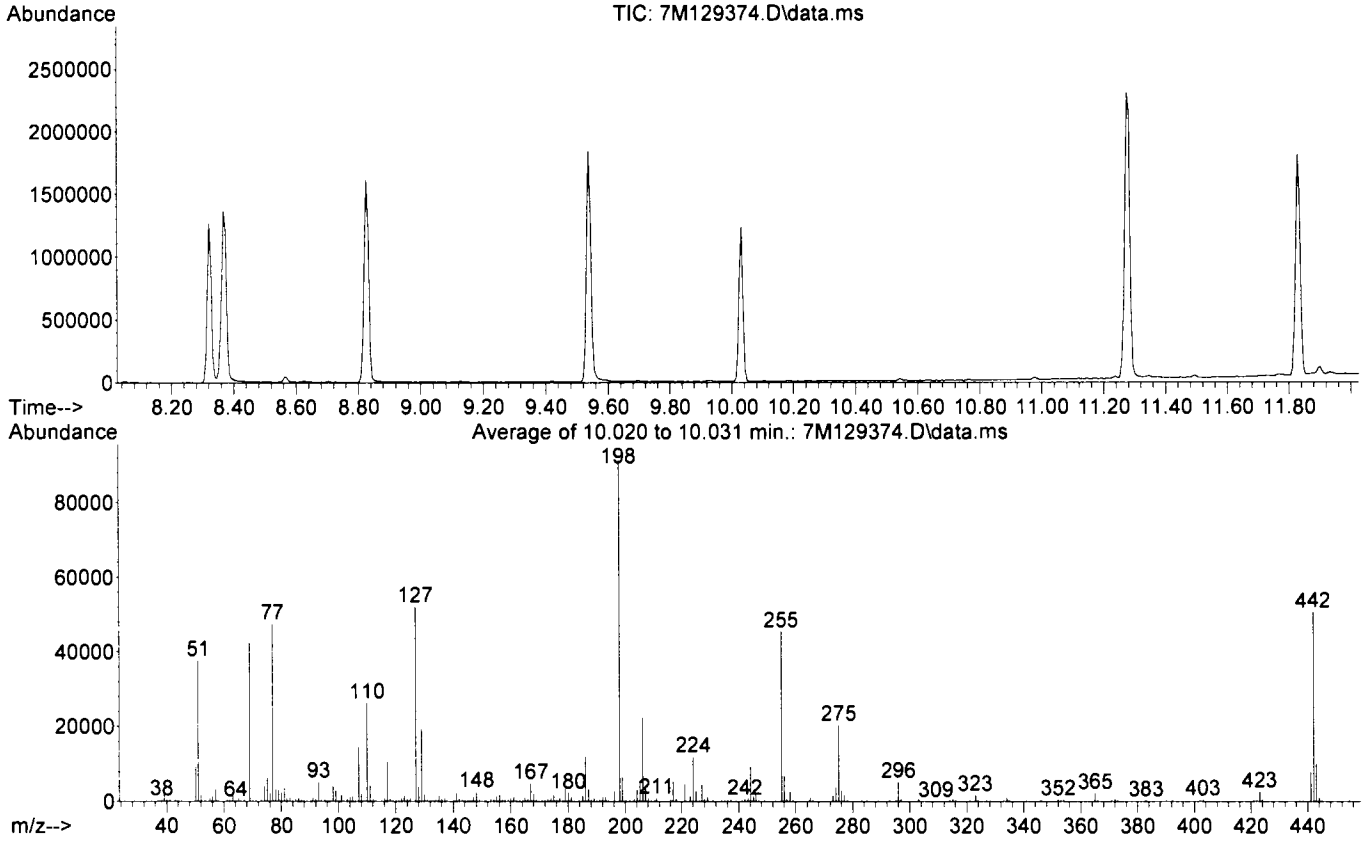
Data File	Sample Number	Analysis Date:
7M129375.D	CAL BNA@50PPM	06/21/23 14:33
7M129376.D	SMB108867(MS)	06/21/23 14:57
7M129377.D	SMB108868(MS)	06/21/23 15:20
7M129378.D	SMB108867	06/21/23 15:44
7M129379.D	SMB108868	06/21/23 16:07
7M129380.D	SMB108852	06/21/23 16:31
7M129381.D	AD38595-002	06/21/23 16:55
7M129382.D	AD38595-002(MS)	06/21/23 17:19
7M129383.D	AD38595-002(MSD	06/21/23 17:42
7M129384.D	AD38613-007(10X)	06/21/23 18:06
7M129385.D	AD38613-009(5X)	06/21/23 18:30
7M129386.D	AD38469-005(3X)	06/21/23 18:53
7M129387.D	AD38493-010(3X)	06/21/23 19:17
7M129388.D	AD38493-007(5X)	06/21/23 19:41
7M129389.D	AD38518-001	06/21/23 20:05
7M129390.D	AD38518-006	06/21/23 20:28
7M129391.D	AD38556-001	06/21/23 20:53
7M129392.D	AD38556-005	06/21/23 21:16
7M129393.D	AD38556-003(3X)	06/21/23 21:40
7M129394.D	AD38556-003(3X)(	06/21/23 22:04
7M129395.D	AD38556-003(3X)(	06/21/23 22:27
7M129396.D	AD38555-007(5X)	06/21/23 22:50
7M129397.D	AD38571-001	06/21/23 23:14
7M129398.D	AD38571-002(3X)	06/21/23 23:37
7M129399.D	AD38571-003(3X)	06/22/23 00:00
7M129400.D	AD38571-004	06/22/23 00:24
7M129401.D	AD38571-005(5X)	06/22/23 00:48
7M129402.D	AD38571-006(3X)	06/22/23 01:12
7M129403.D	AD38571-007	06/22/23 01:35
7M129404.D	AD38571-008	06/22/23 01:59
7M129405.D	AD38571-009	06/22/23 02:22
7M129406.D	AD38571-010	06/22/23 02:46

DFTPP

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-2123\
Data File : 7M129374.D
Acq On : 21 Jun 2023 14:09
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2023\GCMS_7\METHODQT\7M_0619.M
Title : @GCMS_7,mg,625,8270
Last Update : Mon Jun 19 13:31:01 2023



Spectrum Information: Average of 10.020 to 10.031 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.3	37642	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	46.7	42571	PASS
70	69	0.00	2	0.8	342	PASS
127	198	40	60	57.0	52027	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	91232	PASS
199	198	5	9	7.2	6533	PASS
275	198	10	30	22.2	20290	PASS
365	198	1	100	2.4	2158	PASS
441	443	0.01	100	80.0	8005	PASS
442	198	40	100	55.4	50527	PASS
443	442	17	23	19.8	10012	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 9
Data File: 9M122398.D
Analysis Date: 06/21/23 15:29
Method: EPA 8270E

Tune Scan/Time Range: Scan 1285

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	41.7	21800	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.6	20680	PASS
70	69	0.00	2	0.8	160	PASS
127	198	40	60	49.4	25800	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	52216	PASS
199	198	5	9	6.3	3297	PASS
275	198	10	30	25.9	13532	PASS
365	198	1	100	3.3	1719	PASS
441	443	0.01	100	84.2	6328	PASS
442	198	40	100	78.7	41072	PASS
443	442	17	23	18.3	7518	PASS

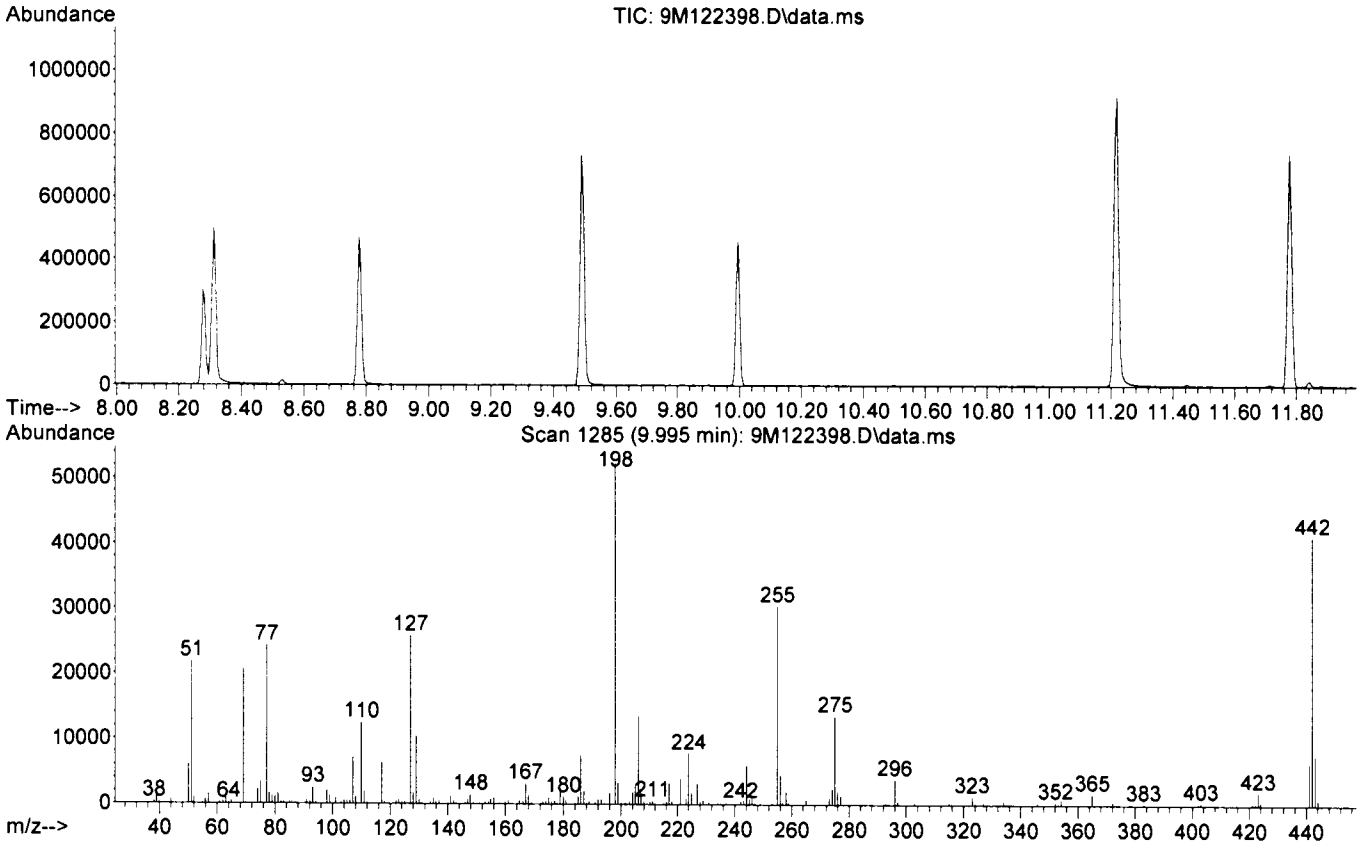
Data File	Sample Number	Analysis Date:
9M122399.D	CAL BNA@50PPM	06/21/23 15:54
9M122400.D	SMB108834	06/21/23 16:17
9M122401.D	SMB108852	06/21/23 17:02
9M122402.D	SMB108867	06/21/23 17:25
9M122403.D	SMB108868	06/21/23 17:47
9M122404.D	AD38537-001	06/21/23 18:10
9M122405.D	AD38537-003	06/21/23 18:33
9M122406.D	AD38537-005	06/21/23 18:55
9M122407.D	AD38537-006	06/21/23 19:18
9M122408.D	AD38537-008	06/21/23 19:40
9M122409.D	AD38513-003	06/21/23 20:03
9M122410.D	AD38513-005	06/21/23 20:25
9M122411.D	AD38513-006	06/21/23 20:48
9M122412.D	AD38555-011	06/21/23 21:10
9M122413.D	AD38555-013	06/21/23 21:33
9M122414.D	AD38623-001	06/21/23 21:55

DFTPP

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-2123\
Data File : 9M122398.D
Acq On : 21 Jun 2023 15:29
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2023\GCMS_9\METHODQT\9M_0621.M
Title : @GCMS_9,mg,625,8270
Last Update : Wed Jun 21 15:11:51 2023



Spectrum Information: Scan 1285

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.7	21800	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.6	20680	PASS
70	69	0.00	2	0.8	160	PASS
127	198	40	60	49.4	25800	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	52216	PASS
199	198	5	9	6.3	3297	PASS
275	198	10	30	25.9	13532	PASS
365	198	1	100	3.3	1719	PASS
441	443	0.01	100	84.2	6328	PASS
442	198	40	100	78.7	41072	PASS
443	442	17	23	18.3	7518	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 7
Data File: 7M129407.D
Analysis Date: 06/22/23 09:19
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.031 to 10.043 min

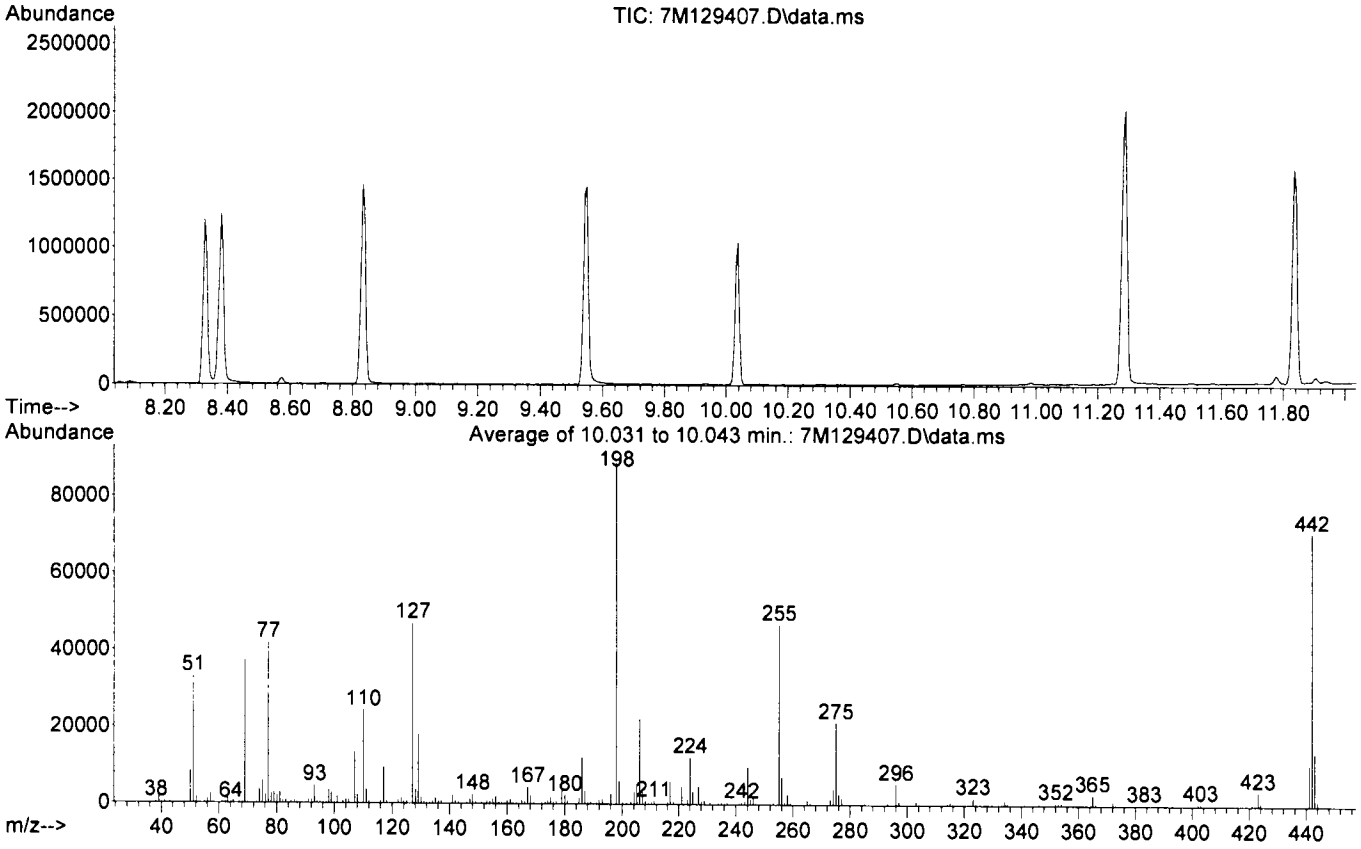
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	37.2	33026	PASS
68	69	0.00	2	0.9	330	PASS
69	198	0.00	100	42.0	37278	PASS
70	69	0.00	2	0.8	284	PASS
127	198	40	60	52.9	46952	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	88696	PASS
199	198	5	9	6.8	6055	PASS
275	198	10	30	24.0	21283	PASS
365	198	1	100	3.0	2682	PASS
441	443	0.01	100	76.5	10487	PASS
442	198	40	100	79.6	70613	PASS
443	442	17	23	19.4	13713	PASS

Data File	Sample Number	Analysis Date:
7M129408.D	CAL BNA@50PPM	06/22/23 09:43
7M129409.D	AD38615-021	06/22/23 10:06
7M129410.D	AD38555-009	06/22/23 10:29
7M129411.D	SMB108868	06/22/23 10:52
7M129412.D	AD38555-015(10X)	06/22/23 11:33
7M129413.D	AD38537-004	06/22/23 11:56
7M129414.D	AD38537-002	06/22/23 12:19
7M129415.D	SMB108875	06/22/23 12:42
7M129416.D	AD38537-007(3X)	06/22/23 13:06
7M129417.D	SMB108876	06/22/23 13:29
7M129418.D	AD38513-004	06/22/23 13:52
7M129419.D	AD38513-007(5X)	06/22/23 14:16
7M129420.D	AD38513-008(3X)	06/22/23 14:39
7M129421.D	AD38513-009	06/22/23 15:02
7M129422.D	AD38555-009(MS)	06/22/23 15:26
7M129423.D	AD38555-009(MSD	06/22/23 15:50

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-22-23\
Data File : 7M129407.D
Acq On : 22 Jun 2023 9:19
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2023\GCMS_7\METHODQT\7M_0619.M
Title : @GCMS_7,mg,625,8270
Last Update : Mon Jun 19 13:31:01 2023



Spectrum Information: Average of 10.031 to 10.043 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.2	33026	PASS
68	69	0.00	2	0.9	330	PASS
69	198	0.00	100	42.0	37278	PASS
70	69	0.00	2	0.8	284	PASS
127	198	40	60	52.9	46952	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	88696	PASS
199	198	5	9	6.8	6055	PASS
275	198	10	30	24.0	21283	PASS
365	198	1	100	3.0	2682	PASS
441	443	0.01	100	76.5	10487	PASS
442	198	40	100	79.6	70613	PASS
443	442	17	23	19.4	13713	PASS

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: SMB108867
Client Id:
Data File: 7M129378.D
Analysis Date: 06/21/23 15:44
Date Rec/Extracted: NA-06/21/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	0.033	U	218-01-9	Chrysene	0.033	U
83-32-9	Acenaphthene	0.033	U	53-70-3	Dibenzo[a,h]anthracene	0.033	U
208-96-8	Acenaphthylene	0.033	U	206-44-0	Fluoranthene	0.033	U
120-12-7	Anthracene	0.033	U	86-73-7	Fluorene	0.033	U
56-55-3	Benzo[a]anthracene	0.033	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.033	U
50-32-8	Benzo[a]pyrene	0.033	U	91-20-3	Naphthalene	0.0083	U
205-99-2	Benzo[b]fluoranthene	0.033	U	85-01-8	Phenanthrene	0.033	U
191-24-2	Benzo[g,h,i]perylene	0.033	U	129-00-0	Pyrene	0.033	U
207-08-9	Benzo[k]fluoranthene	0.033	U				

Worksheet #: 696126

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

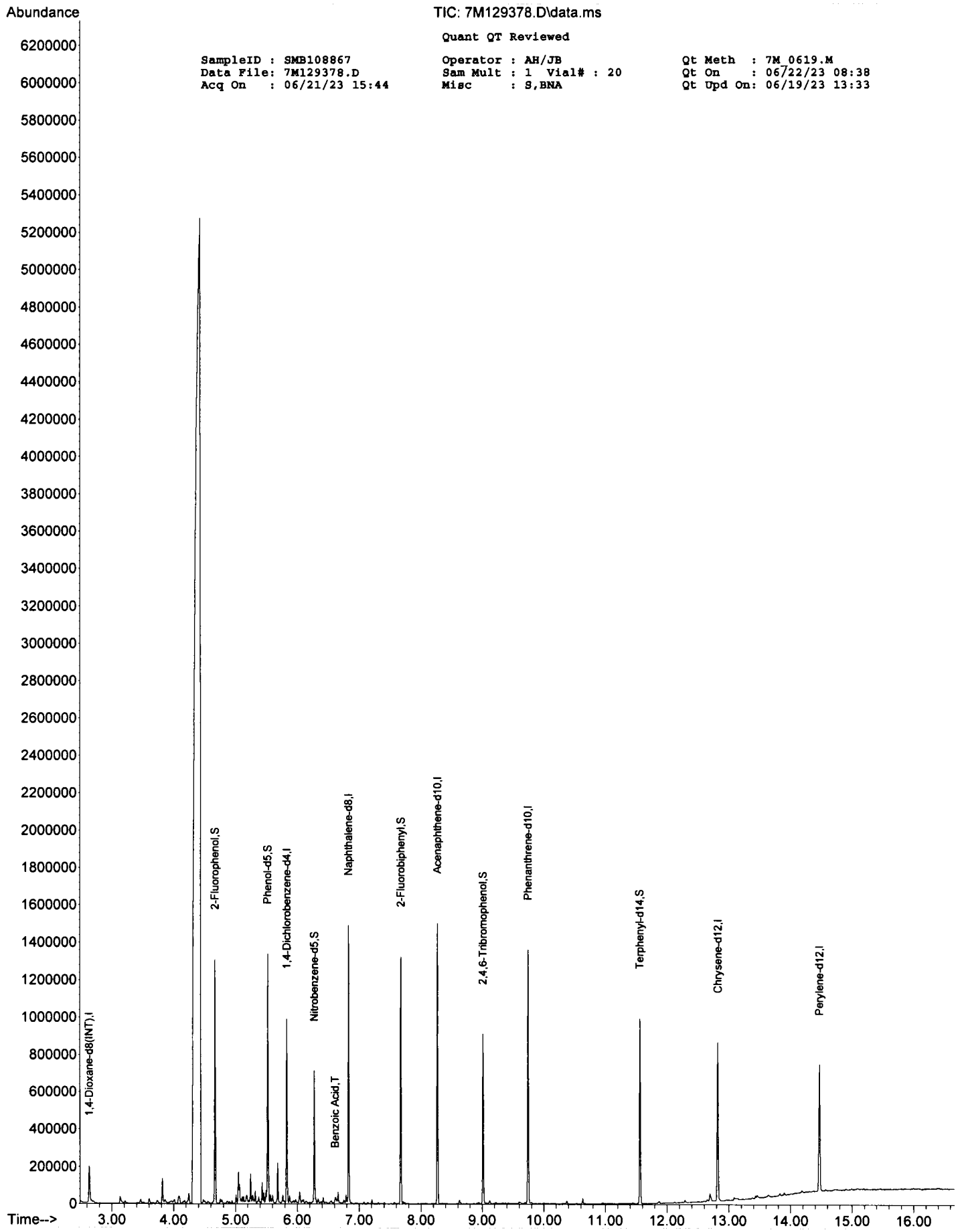
Quantitation Report (QT Reviewed)

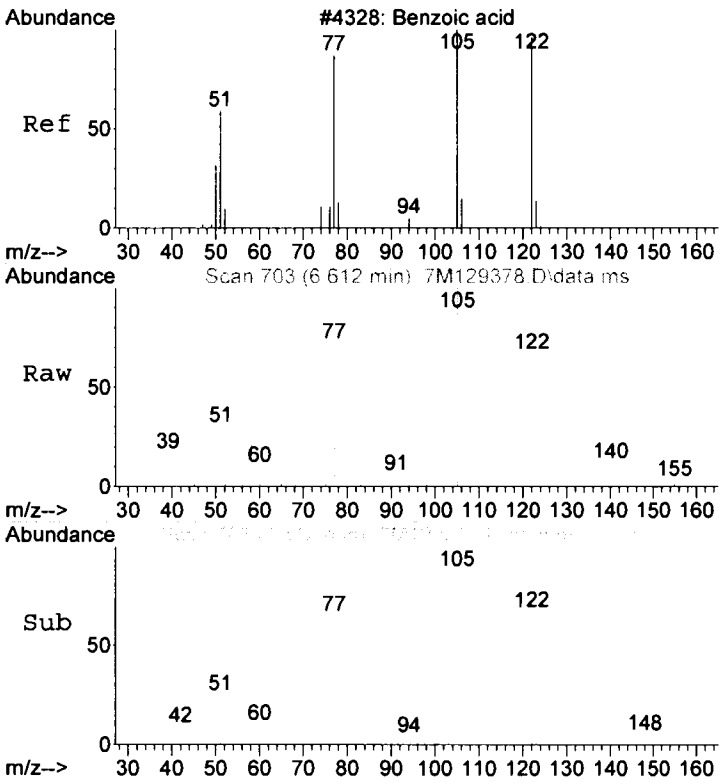
SampleID : SMB108867 Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129378.D Sam Mult : 1 Vial# : 20 Qt On : 06/22/23 08:38
Acq On : 06/21/23 15:44 Misc : S,BNA Qt Upd On: 06/19/23 13:33

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-2123\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.634	96	93733	40.00	ng	0.02
21) 1,4-Dichlorobenzene-d4	5.830	152	147075	40.00	ng	0.00
31) Naphthalene-d8	6.829	136	577004	40.00	ng	0.00
50) Acenaphthene-d10	8.269	164	338638	40.00	ng	0.00
77) Phenanthrene-d10	9.744	188	536049	40.00	ng	0.00
91) Chrysene-d12	12.822	240	335467	40.00	ng	0.00
103) Perylene-d12	14.467	264	279984	40.00	ng	-0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.667	112	344898	60.87	ng	0.02
Spiked Amount 100.000			Recovery = 60.87%			
16) Phenol-d5	5.525	99	442198	66.06	ng	0.00
Spiked Amount 100.000			Recovery = 66.06%			
32) Nitrobenzene-d5	6.277	128	96933	36.35	ng	0.00
Spiked Amount 50.000			Recovery = 72.70%			
55) 2-Fluorobiphenyl	7.675	172	408834	37.01	ng	0.00
Spiked Amount 50.000			Recovery = 74.02%			
80) 2,4,6-Tribromophenol	9.015	330	85509	71.26	ng	0.00
Spiked Amount 100.000			Recovery = 71.26%			
94) Terphenyl-d14	11.559	244	312279	42.88	ng	0.00
Spiked Amount 50.000			Recovery = 85.76%			
Target Compounds						Qvalue
37) Benzoic Acid	6.612	105	7089	1.6210	ng	57

(#) = qualifier out of range (m) = manual integration (+) = signals summed

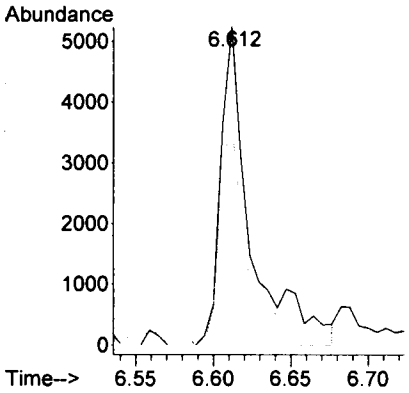

Abundance
TIC: 7M129378.D\data.ms
Quant QT Reviewed
SampleID : SMB108867
Data File: 7M129378.D
Acq On : 06/21/23 15:44
Operator : AH/JB
Sam Mult : 1 Vial# : 20
Misc : S,BNA
Qt Meth : 7M_0619.M
Qt On : 06/22/23 08:38
Qt Upd On: 06/19/23 13:33
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Benzoic Acid,T
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->



#37
Benzoic Acid
Concen: 1.62 ng
RT: 6.612 min Scan# 703
Delta R.T. -0.041 min
Lab File: 7M129378.D
Acq: 21 Jun 2023 15:44

Tgt Ion:105 Resp: 7089

Ion	Ratio	Lower	Upper
105	100		
77	69.0	0.0	230.0
122	67.3	0.0	250.0



Form3
Recovery Data Laboratory Limits
QC Batch: SMB108867

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M129376.D	SMB108867(MS)	6/21/2023 2:57:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	9.8007	0	50	20	10	60
Pyridine	1	22.0058	0	50	44	13	107
N-Nitrosodimethylamine	1	23.6959	0	50	47	30	100
Benzaldehyde	1	19.941	0	50	40	10	121
Aniline	1	22.4446	0	50	45	10	96
Pentachloroethane	1	26.1654	0	50	52	19	125
bis(2-Chloroethyl)ether	1	24.7676	0	50	50	28	120
N-Decane	1	20.3438	0	50	41	10	142
1,3-Dichlorobenzene	1	24.6839	0	50	49	32	105
1,4-Dichlorobenzene	1	35.2569	0	50	71	37	100
1,2-Dichlorobenzene	1	35.1375	0	50	70	29	108
Benzyl alcohol	1	37.9799	0	50	76	37	119
bis(2-chloroisopropyl)ether	1	29.0914	0	50	58	20	110
Acetophenone	1	37.0947	0	50	74	11	152
Hexachloroethane	1	34.0648	0	50	68	10	130
N-Nitroso-di-n-propylamine	1	33.7187	0	50	67	10	151
Nitrobenzene	1	37.7737	0	50	76	20	142
Isophorone	1	32.9314	0	50	66	10	164
Benzoic Acid	1	96.7663	0	100	97	10	182
bis(2-Chloroethoxy)methane	1	38.1578	0	50	76	26	131
1,2,4-Trichlorobenzene	1	37.9933	0	50	76	33	121
Naphthalene	**1**	**36.7077**	**0**	**50**	**73**	**10**	**153**
4-Chloroaniline	1	20.0577	0	50	40	10	112
Hexachlorobutadiene	1	37.7947	0	50	76	32	113
Caprolactam	1	39.0892	0	50	78	10	174
2-Methylnaphthalene	**1**	**42.4494**	**0**	**50**	**85**	**11**	**153**
1-Methylnaphthalene	1	45.3877	0	50	91	10	180
1,1'-Biphenyl	1	41.3641	0	50	83	18	148
1,2,4,5-Tetrachlorobenzene	1	41.3716	0	50	83	31	124
Hexachlorocyclopentadiene	1	34.5109	0	50	69	10	103
2-Chloronaphthalene	1	40.4524	0	50	81	41	115
1,4-Dimethylnaphthalene	1	41.559	0	50	83	10	205
Diphenyl Ether	1	42.3552	0	50	85	31	127
2-Nitroaniline	1	42.5379	0	50	85	32	142
Coumarin	1	43.8943	0	50	88	14	160
Acenaphthylene	**1**	**45.227**	**0**	**50**	**90**	**26**	**133**
Dimethylphthalate	1	40.672	0	50	81	40	120
2,6-Dinitrotoluene	1	41.4816	0	50	83	18	148
Acenaphthene	**1**	**40.6875**	**0**	**50**	**81**	**11**	**158**
3-Nitroaniline	1	28.5734	0	50	57	14	137
Dibenzofuran	1	42.8749	0	50	86	10	170
2,4-Dinitrotoluene	1	40.937	0	50	82	10	173
Fluorene	**1**	**40.8866**	**0**	**50**	**82**	**14**	**152**
4-Chlorophenyl-phenylether	1	41.2685	0	50	83	40	121
Diethylphthalate	1	42.0225	0	50	84	40	119
4-Nitroaniline	1	37.9095	0	50	76	31	125
Atrazine	1	39.2721	0	50	79	12	164
n-Nitrosodiphenylamine	1	36.3197	0	50	73	10	172
1,2-Diphenylhydrazine	1	45.5673	0	50	91	24	144
4-Bromophenyl-phenylether	1	42.9681	0	50	86	26	148
Hexachlorobenzene	1	42.0505	0	50	84	36	124
N-Octadecane	1	55.2297	0	50	110	10	186
Phenanthrene	**1**	**42.4293**	**0**	**50**	**85**	**10**	**175**
Anthracene	**1**	**43.1983**	**0**	**50**	**86**	**21**	**148**
Carbazole	1	45.9279	0	50	92	36	137
Di-n-butylphthalate	1	44.538	0	50	89	41	134
Fluoranthene	**1**	**41.1465**	**0**	**50**	**82**	**10**	**186**
Pyrene	**1**	**47.5309**	**0**	**50**	**95**	**10**	**196**
Benzidine	1	5.091	0	50	10	10	77
Butylbenzylphthalate	1	46.9087	0	50	94	40	139
3,3'-Dichlorobenzidine	1	31.0215	0	50	62	10	110

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB108867

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Benzo[a]anthracene	**1**	**42.0037**	**0**	**50**	**84**	**13**	**142**
Chrysene	**1**	**42.0047**	**0**	**50**	**84**	**11**	**161**
bis(2-Ethylhexyl)phthalate	1	47.2766	0	50	95	34	156
Di-n-octylphthalate	1	46.5389	0	50	93	28	158
Benzo[b]fluoranthene	**1**	**41.6477**	**0**	**50**	**83**	**20**	**156**
Benzo[k]fluoranthene	**1**	**46.1496**	**0**	**50**	**92**	**15**	**156**
Benzo[a]pyrene	**1**	**45.7184**	**0**	**50**	**91**	**14**	**144**
Indeno[1,2,3-cd]pyrene	**1**	**47.0409**	**0**	**50**	**94**	**24**	**142**
Dibenzo[a,h]anthracene	**1**	**47.3532**	**0**	**50**	**95**	**29**	**132**
Benzo[g,h,i]perylene	**1**	**46.2516**	**0**	**50**	**93**	**12**	**142**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Quantitation Report (QT Reviewed)

SampleID : SMB108867(MS) Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129376.D Sam Mult : 1 Vial# : 18 Qt On : 06/22/23 08:33
Acq On : 06/21/23 14:57 Misc : S,BNA Qt Upd On: 06/19/23 13:33

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-2123\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.634	96	104345	40.00	ng	0.02
21) 1,4-Dichlorobenzene-d4	5.830	152	123970	40.00	ng	0.00
31) Naphthalene-d8	6.835	136	476238	40.00	ng	0.00
50) Acenaphthene-d10	8.269	164	275103	40.00	ng	0.00
77) Phenanthrene-d10	9.749	188	437034	40.00	ng	0.00
91) Chrysene-d12	12.822	240	294896	40.00	ng	0.00
103) Perylene-d12	14.473	264	286222	40.00	ng	-0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.667	112	295489	46.85	ng	0.02
Spiked Amount 100.000			Recovery = 46.85%			
16) Phenol-d5	5.531	99	373876	50.17	ng	0.01
Spiked Amount 100.000			Recovery = 50.17%			
32) Nitrobenzene-d5	6.277	128	80033	36.37	ng	0.00
Spiked Amount 50.000			Recovery = 72.74%			
55) 2-Fluorobiphenyl	7.675	172	337294	37.59	ng	0.00
Spiked Amount 50.000			Recovery = 75.18%			
80) 2,4,6-Tribromophenol	9.021	330	77907	79.63	ng	0.00
Spiked Amount 100.000			Recovery = 79.63%			
94) Terphenyl-d14	11.565	244	275989	43.11	ng	0.00
Spiked Amount 50.000			Recovery = 86.22%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.669	88	26435	9.8007	ng	96
9) Pyridine	3.139	79	111008	22.0058	ng	70
10) N-Nitrosodimethylamine	3.075	74	95225	23.6959	ng	75
12) Benzaldehyde	5.460	77	103589	19.9410	ng	67
13) Aniline	5.554	93	202718	22.4446	ng	55
14) Pentachloroethane	5.590	117	59921	26.1654	ng	83
15) bis(2-Chloroethyl)ether	5.613	93	154035	24.7676	ng	78
17) Phenol	5.548	94	445455	52.4628	ng	97
18) 2-Chlorophenol	5.660	128	352770	55.2266	ng	78
19) N-Decane	5.689	57	123203	20.3438	ng	90
20) 1,3-Dichlorobenzene	5.778	146	161648m	24.6839	ng	
22) 1,4-Dichlorobenzene	5.842	146	166554	35.2569	ng	97
23) 1,2-Dichlorobenzene	5.966	146	158199	35.1375	ng	99
24) Benzyl alcohol	5.948	108	121247	37.9799	ng	71
25) bis(2-chloroisopropyl)...	6.048	45	153090	29.0914	ng	95
26) 2-Methylphenol	6.036	108	326084	76.3364	ng	96
27) Acetophenone	6.159	105	230139	37.0947	ng	90
28) Hexachloroethane	6.236	117	66072	34.0648	ng	85
29) N-Nitroso-di-n-propyla...	6.159	70	103712	33.7187	ng	81
30) 3&4-Methylphenol	6.159	108	314829	75.1566	ng	85
33) Nitrobenzene	6.295	77	172477	37.7737	ng	77
34) Isophorone	6.483	82	287850	32.9314	ng	88
35) 2-Nitrophenol	6.541	139	200849	81.0797	ng	88
36) 2,4-Dimethylphenol	6.571	107	353635	79.8612	ng	95
37) Benzoic Acid	6.694	105	349285	96.7663	ng	45
38) bis(2-Chloroethoxy)met...	6.641	93	195222	38.1578	ng	97
39) 2,4-Dichlorophenol	6.729	162	296821	83.0174	ng	87
40) 1,2,4-Trichlorobenzene	6.788	180	139630	37.9933	ng	97
41) Naphthalene	6.853	128	467506	36.7077	ng	99
42) 4-Chloroaniline	6.888	127	96463	20.0577	ng	90
43) Hexachlorobutadiene	6.935	225	71256	37.7947	ng	97
44) Caprolactam	7.188	113	64261	39.0892	ng	72
45) 4-Chloro-3-methylphenol	7.258	107	325387	81.7985	ng	84
46) 2-Methylnaphthalene	7.387	142	350719	42.4494	ng	97
47) 1-Methylnaphthalene	7.464	142	350802	45.3877	ng	91
49) 1,1'-Biphenyl	7.763	154	424445	41.3641	ng	94
51) 1,2,4,5-Tetrachloroben...	7.517	216	144452	41.3716	ng	98
52) Hexachlorocyclopentadiene	7.505	237	32080	34.5109	ng	97
53) 2,4,6-Trichlorophenol	7.611	196	219195m	85.1276	ng	
54) 2,4,5-Trichlorophenol	7.646	196	223546m	82.6769	ng	
56) 2-Chloronaphthalene	7.787	162	310887	40.4524	ng	92
57) 1,4-Dimethylnaphthalene	8.069	156	248271	41.5590	ng	90
59) Diphenyl Ether	7.846	170	235479	42.3552	ng	79
60) 2-Nitroaniline	7.869	65	121943	42.5379	ng	46
61) Coumarin	8.051	146	138453	43.8943	ng	72
62) Acenaphthylene	8.145	152	490889	45.2270	ng	99
63) Dimethylphthalate	8.004	163	366994	40.6720	ng	98
64) 2,6-Dinitrotoluene	8.069	165	81791	41.4816	ng	68
65) Acenaphthene	8.298	153	300502	40.6875	ng	98
66) 3-Nitroaniline	8.222	138	66393	28.5734	ng	77
67) 2,4-Dinitrophenol	8.322	184	94746	86.1314	ng	38

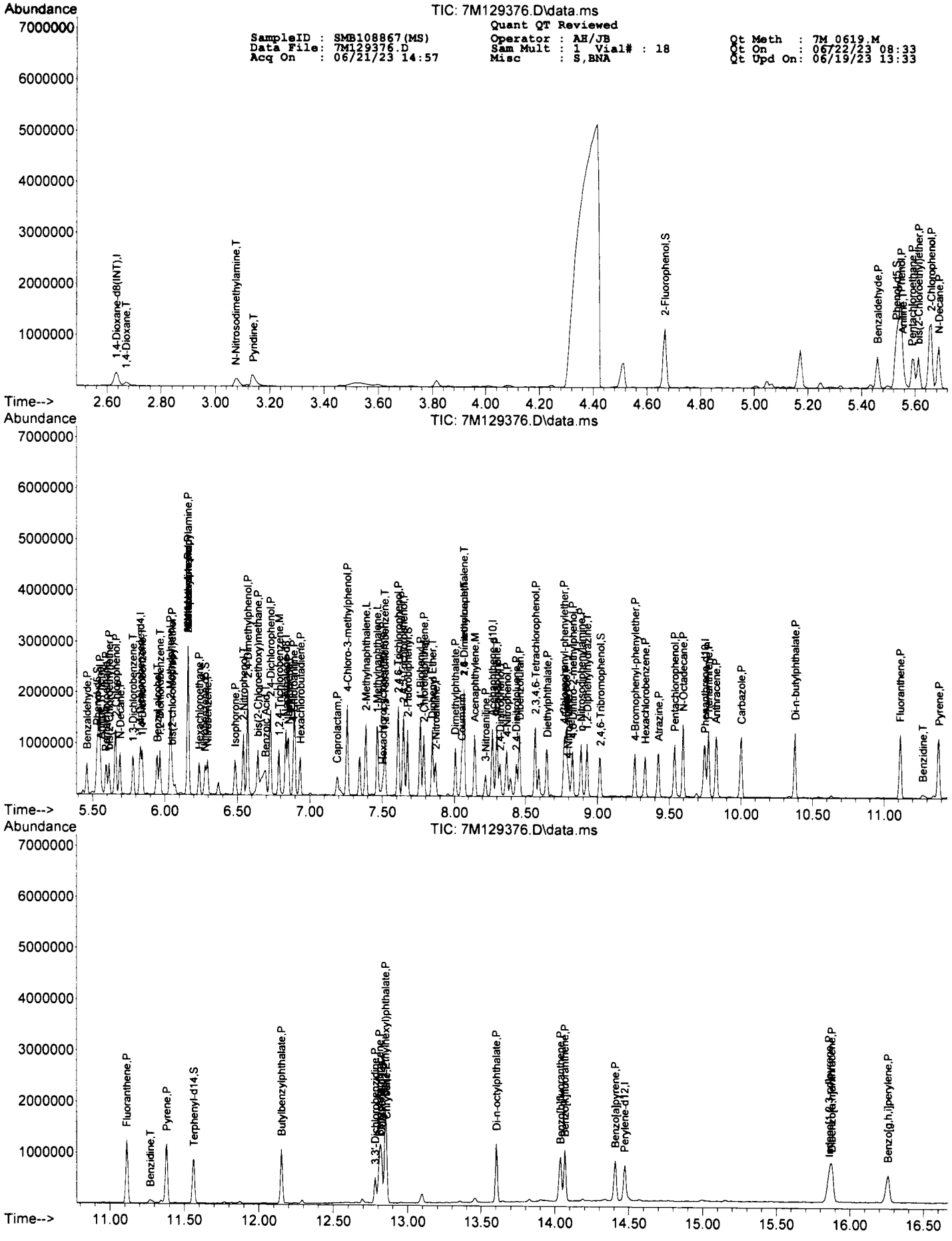
Quantitation Report (QT Reviewed)

SampleID : SMB108867(MS) Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129376.D Sam Mult : 1 Vial# : 18 Qt On : 06/22/23 08:33
Acq On : 06/21/23 14:57 Misc : S,BNA Qt Upd On: 06/19/23 13:33

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-2123\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	Dibenzofuran	8.457	168	475261	42.8749	ng	86
69)	2,4-Dinitrotoluene	8.433	165	117340	40.9370	ng	64
70)	4-Nitrophenol	8.369	65	149313	84.3350	ng	85
71)	2,3,4,6-Tetrachlorophenol	8.568	232	167177	80.4863	ng	88
72)	Fluorene	8.780	166	361592	40.8866	ng	99
73)	4-Chlorophenyl-phenyle...	8.768	204	173743	41.2685	ng	86
74)	Diethylphthalate	8.651	149	371122	42.0225	ng	96
75)	4-Nitroaniline	8.798	138	96614	37.9095	ng	78
76)	Atrazine	9.426	200	106884	39.2721	ng	95
78)	4,6-Dinitro-2-methylph...	8.827	198	131735	92.8644	ng	57
79)	n-Nitrosodiphenylamine	8.886	169	261238	36.3197	ng	98
81)	1,2-Diphenylhydrazine	8.927	77	403561	45.5673	ng	84
82)	4-Bromophenyl-phenylether	9.262	248	96088	42.9681	ng	87
83)	Hexachlorobenzene	9.332	284	99108	42.0505	ng	66
84)	N-Octadecane	9.597	57	230755	55.2297	ng	77
85)	Pentachlorophenol	9.538	266	115821	86.4463	ng	96
86)	Phenanthrene	9.773	178	493054	42.4293	ng	100
87)	Anthracene	9.826	178	511121	43.1983	ng	100
88)	Carbazole	10.002	167	532602	45.9279	ng	97
89)	Di-n-butylphthalate	10.378	149	643880	44.5380	ng	97
90)	Fluoranthene	11.113	202	525676	41.1465	ng	92
92)	Pyrene	11.383	202	522434	47.5309	ng	88
93)	Benzidine	11.271	184	31300	5.0910	ng	87
97)	Butylbenzylphthalate	12.153	149	253335	46.9087	ng	76
99)	3,3'-Dichlorobenzidine	12.781	252	109457	31.0215	ng	96
100)	Benzo[a]anthracene	12.811	228	407692	42.0037	ng	99
101)	Chrysene	12.858	228	357278m	42.0047	ng	
102)	bis(2-Ethylhexyl)phtha...	12.852	149	321568	47.2766	ng	93
104)	Di-n-octylphthalate	13.604	149	570790	46.5389	ng	100
105)	Benzo[b]fluoranthene	14.039	252	382559m	41.6477	ng	
106)	Benzo[k]fluoranthene	14.068	252	390128m	46.1496	ng	
107)	Benzo[a]pyrene	14.409	252	361899	45.7184	ng	94
108)	Indeno[1,2,3-cd]pyrene	15.860	276	432050	47.0409	ng	87
109)	Dibenzo[a,h]anthracene	15.878	278	361296	47.3532	ng	90
110)	Benzo[g,h,i]perylene	16.260	276	350207	46.2516	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 7M129376.D\data.ms
Quant QT Reviewed
SampleID : SMB108867(MS)
Data File: 7M129376.D
Acq On : 06/21/23 14:57
Operator : AH/JB
Sam Mult : 1 Vial# : 18
Misc : S,BNA
Qt Meth : 7M_0619.M
Qt On : 06/22/23 08:33
Qt Upd On: 06/19/23 13:33
Time-->

Form3
Recovery Data Laboratory Limits
QC Batch: SMB108867

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M129422.D	AD38555-009(MS)	6/22/2023 3:26:00 PM
Non Spike(If applicable):	7M129410.D	AD38555-009	6/22/2023 10:29:00 AM
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	15.1958	0	50	30	10	60
Pyridine	1	33.6532	0	50	67	13	107
N-Nitrosodimethylamine	1	36.224	0	50	72	30	100
Benzaldehyde	1	29.825	0	50	60	10	121
Aniline	1	28.1242	0	50	56	10	96
Pentachloroethane	1	37.7724	0	50	76	19	125
bis(2-Chloroethyl)ether	1	39.8126	0	50	80	28	120
N-Decane	1	30.5795	0	50	61	10	142
1,3-Dichlorobenzene	1	38.5945	0	50	77	32	105
1,4-Dichlorobenzene	1	38.3368	0	50	77	37	100
1,2-Dichlorobenzene	1	38.6543	0	50	77	29	108
Benzyl alcohol	1	41.7474	0	50	83	37	119
bis(2-chloroisopropyl)ether	1	32.4329	0	50	65	20	110
Acetophenone	1	40.8834	0	50	82	11	152
Hexachloroethane	1	31.4639	0	50	63	10	130
N-Nitroso-di-n-propylamine	1	37.7253	0	50	75	10	151
Nitrobenzene	1	40.9422	0	50	82	20	142
Isophorone	1	35.3286	0	50	71	10	164
Benzoic Acid	1	42.7422	0	100	43	10	182
bis(2-Chloroethoxy)methane	1	40.3926	0	50	81	26	131
1,2,4-Trichlorobenzene	1	41.7044	0	50	83	33	121
Naphthalene	**1**	**40.8574**	**0**	**50**	**82**	**10**	**153**
4-Chloroaniline	1	34.126	0	50	68	10	112
Hexachlorobutadiene	1	41.9575	0	50	84	32	113
Caprolactam	1	41.2038	0	50	82	10	174
2-Methylnaphthalene	**1**	**45.9898**	**0**	**50**	**92**	**11**	**153**
1-Methylnaphthalene	1	47.5889	0	50	95	10	180
1,1'-Biphenyl	1	42.784	0	50	86	18	148
1,2,4,5-Tetrachlorobenzene	1	43.6293	0	50	87	31	124
Hexachlorocyclopentadiene	1	0	0	50	0*	10	103
2-Chloronaphthalene	1	43.5398	0	50	87	41	115
1,4-Dimethylnaphthalene	1	43.8381	0	50	88	10	205
Diphenyl Ether	1	43.8961	0	50	88	31	127
2-Nitroaniline	1	46.3719	0	50	93	32	142
Coumarin	1	46.6465	0	50	93	14	160
Acenaphthylene	**1**	**48.0436**	**0**	**50**	**96**	**26**	**133**
Dimethylphthalate	1	44.6663	0	50	89	40	120
2,6-Dinitrotoluene	1	43.1024	0	50	86	18	148
Acenaphthene	**1**	**43.8823**	**0**	**50**	**88**	**11**	**158**
3-Nitroaniline	1	44.4449	0	50	89	14	137
Dibenzofuran	1	46.4212	0	50	93	10	170
2,4-Dinitrotoluene	1	41.8693	0	50	84	10	173
Fluorene	**1**	**44.2019**	**0**	**50**	**88**	**14**	**152**
4-Chlorophenyl-phenylether	1	43.5624	0	50	87	40	121
Diethylphthalate	1	44.541	0	50	89	40	119
4-Nitroaniline	1	43.85	0	50	88	31	125
Atrazine	1	41.5547	0	50	83	12	164
n-Nitrosodiphenylamine	1	38.6156	0	50	77	10	172
1,2-Diphenylhydrazine	1	46.5792	0	50	93	24	144
4-Bromophenyl-phenylether	1	44.3381	0	50	89	26	148
Hexachlorobenzene	1	41.4528	0	50	83	36	124
N-Octadecane	1	54.5798	0	50	109	10	186
Phenanthrene	**1**	**47.4948**	**4.8829**	**50**	**85**	**10**	**175**
Anthracene	**1**	**45.7857**	**0**	**50**	**92**	**21**	**148**
Carbazole	1	46.9234	0	50	94	36	137
Di-n-butylphthalate	1	47.4433	0	50	95	41	134
Fluoranthene	**1**	**50.398**	**8.8072**	**50**	**83**	**10**	**186**
Pyrene	**1**	**56.4081**	**9.8485**	**50**	**93**	**10**	**196**
Benzidine	1	3.3403	0	50	6.7*	10	77
Butylbenzylphthalate	1	49.0089	0	50	98	40	139
3,3'-Dichlorobenzidine	1	42.7053	0	50	85	10	110

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB108867

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Benzo[a]anthracene	**1**	**49.5129**	**5.1334**	**50**	**89**	**13**	**142**
Chrysene	**1**	**50.5072**	**5.4311**	**50**	**90**	**11**	**161**
bis(2-Ethylhexyl)phthalate	1	53.9856	0	50	108	34	156
Di-n-octylphthalate	1	48.9622	0	50	98	28	158
Benzo[b]fluoranthene	**1**	**51.2714**	**6.2094**	**50**	**90**	**20**	**156**
Benzo[k]fluoranthene	**1**	**51.16**	**2.1733**	**50**	**98**	**15**	**156**
Benzo[a]pyrene	**1**	**52.7825**	**5.2848**	**50**	**95**	**14**	**144**
Indeno[1,2,3-cd]pyrene	**1**	**43.7227**	**2.9363**	**50**	**82**	**24**	**142**
Dibenzo[a,h]anthracene	**1**	**43.4442**	**0**	**50**	**87**	**29**	**132**
Benzo[g,h,i]perylene	**1**	**40.546**	**3.5515**	**50**	**74**	**12**	**142**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB108867

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M129423.D	AD38555-009(MSD)	6/22/2023 3:50:00 PM
Non Spike(If applicable):	7M129410.D	AD38555-009	6/22/2023 10:29:00 AM
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	17.5707	0	50	35	10	60
Pyridine	1	36.8001	0	50	74	13	107
N-Nitrosodimethylamine	1	37.6163	0	50	75	30	100
Benzaldehyde	1	31.8147	0	50	64	10	121
Aniline	1	24.2467	0	50	48	10	96
Pentachloroethane	1	39.1104	0	50	78	19	125
bis(2-Chloroethyl)ether	1	40.4276	0	50	81	28	120
N-Decane	1	33.9064	0	50	68	10	142
1,3-Dichlorobenzene	1	40.3302	0	50	81	32	105
1,4-Dichlorobenzene	1	38.5046	0	50	77	37	100
1,2-Dichlorobenzene	1	39.2065	0	50	78	29	208
Benzyl alcohol	1	40.9588	0	50	82	37	119
bis(2-chloroisopropyl)ether	1	32.5082	0	50	65	20	110
Acetophenone	1	40.6195	0	50	81	11	152
Hexachloroethane	1	31.9391	0	50	64	10	130
N-Nitroso-di-n-propylamine	1	38.4155	0	50	77	10	151
Nitrobenzene	1	40.8661	0	50	82	20	142
Isophorone	1	35.3151	0	50	71	10	164
Benzoic Acid	1	42.1302	0	100	42	10	182
bis(2-Chloroethoxy)methane	1	40.1382	0	50	80	26	131
1,2,4-Trichlorobenzene	1	41.1324	0	50	82	33	121
Naphthalene	**1**	**41.0869**	**0**	**50**	**82**	**10**	**153**
4-Chloroaniline	1	26.5768	0	50	53	10	112
Hexachlorobutadiene	1	41.8353	0	50	84	32	113
Caprolactam	1	39.8082	0	50	80	10	174
2-Methylnaphthalene	**1**	**46.3122**	**0**	**50**	**93**	**11**	**153**
1-Methylnaphthalene	1	47.3114	0	50	95	10	180
1,1'-Biphenyl	1	42.6217	0	50	85	18	148
1,2,4,5-Tetrachlorobenzene	1	43.4712	0	50	87	31	124
Hexachlorocyclopentadiene	1	0	0	50	0*	10	103
2-Chloronaphthalene	1	43.2752	0	50	87	41	115
1,4-Dimethylnaphthalene	1	42.992	0	50	86	10	205
Diphenyl Ether	1	43.8082	0	50	88	31	127
2-Nitroaniline	1	46.7034	0	50	93	32	142
Coumarin	1	45.8856	0	50	92	14	160
Acenaphthylene	**1**	**47.4114**	**0**	**50**	**95**	**26**	**133**
Dimethylphthalate	1	43.955	0	50	88	40	120
2,6-Dinitrotoluene	1	43.3516	0	50	87	18	148
Acenaphthene	**1**	**43.8817**	**0**	**50**	**88**	**11**	**158**
3-Nitroaniline	1	42.1153	0	50	84	14	137
Dibenzofuran	1	46.0592	0	50	92	10	170
2,4-Dinitrotoluene	1	41.1773	0	50	82	10	173
Fluorene	**1**	**43.9812**	**0**	**50**	**88**	**14**	**152**
4-Chlorophenyl-phenylether	1	42.8738	0	50	86	40	121
Diethylphthalate	1	44.8538	0	50	90	40	119
4-Nitroaniline	1	43.48	0	50	87	31	125
Atrazine	1	40.853	0	50	82	12	164
n-Nitrosodiphenylamine	1	38.8834	0	50	78	10	172
1,2-Diphenylhydrazine	1	46.9832	0	50	94	24	144
4-Bromophenyl-phenylether	1	44.3362	0	50	89	26	148
Hexachlorobenzene	1	42.5786	0	50	85	36	124
N-Octadecane	1	54.2472	0	50	108	10	186
Phenanthrene	**1**	**49.3044**	**4.8829**	**50**	**89**	**10**	**175**
Anthracene	**1**	**46.6399**	**0**	**50**	**93**	**21**	**148**
Carbazole	1	47.5753	0	50	95	36	137
Di-n-butylphthalate	1	46.7239	0	50	93	41	134
Fluoranthene	**1**	**51.9968**	**8.8072**	**50**	**86**	**10**	**186**
Pyrene	**1**	**56.6174**	**9.8485**	**50**	**94**	**10**	**196**
Benzidine	1	2.9767	0	50	6*	10	77
Butylbenzylphthalate	1	48.3722	0	50	97	40	139
3,3'-Dichlorobenzidine	1	41.2341	0	50	82	10	110

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB108867

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Benzo[a]anthracene	1	49.0355	5.1334	50	88	13	142
Chrysene	1	50.4678	5.4311	50	90	11	161
bis(2-Ethylhexyl)phthalate	1	52.2628	0	50	105	34	156
Di-n-octylphthalate	1	48.9274	0	50	98	28	158
Benzo[b]fluoranthene	1	52.2177	6.2094	50	92	20	156
Benzo[k]fluoranthene	1	49.9209	2.1733	50	95	15	156
Benzo[a]pyrene	1	53.1673	5.2848	50	96	14	144
Indeno[1,2,3-cd]pyrene	1	44.0156	2.9363	50	82	24	142
Dibenzo[a,h]anthracene	1	43.3841	0	50	87	29	132
Benzo[g,h,i]perylene	1	41.8205	3.5515	50	77	12	142

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB108867

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M129423.D	AD38555-009(MSD)	6/22/2023 3:50:00 PM
Duplicate(If applicable):	7M129422.D	AD38555-009(MS)	6/22/2023 3:26:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
1,4-Dioxane	1	17.5707	15.1958	14	62
Pyridine	1	36.8001	33.6532	8.9	78
N-Nitrosodimethylamine	1	37.6163	36.224	3.8	44
Benzaldehyde	1	31.8147	29.825	6.5	44
Aniline	1	24.2467	28.1242	15	90
Pentachloroethane	1	39.1104	37.7724	3.5	54
bis(2-Chloroethyl)ether	1	40.4276	39.8126	1.5	47
N-Decane	1	33.9064	30.5795	10	62
1,3-Dichlorobenzene	1	40.3302	38.5945	4.4	45
1,4-Dichlorobenzene	1	38.5046	38.3368	0.44	40
1,2-Dichlorobenzene	1	39.2065	38.6543	1.4	40
Benzyl alcohol	1	40.9588	41.7474	1.9	49
bis(2-chloroisopropyl)ether	1	32.5082	32.4329	0.23	39
Acetophenone	1	40.6195	40.8834	0.65	50
Hexachloroethane	1	31.9391	31.4639	1.5	66
N-Nitroso-di-n-propylamine	1	38.4155	37.7253	1.8	47
Nitrobenzene	1	40.8661	40.9422	0.19	48
Isophorone	1	35.3151	35.3286	0.04	47
Benzoic Acid	1	42.1302	42.7422	1.4	70
bis(2-Chloroethoxy)methane	1	40.1382	40.3926	0.63	45
1,2,4-Trichlorobenzene	1	41.1324	41.7044	1.4	39
Naphthalene	**1**	**41.0869**	**40.8574**	**0.56**	**58**
4-Chloroaniline	1	26.5768	34.126	25	75
Hexachlorobutadiene	1	41.8353	41.9575	0.29	40
Caprolactam	1	39.8082	41.2038	3.4	41
2-Methylnaphthalene	**1**	**46.3122**	**45.9898**	**0.7**	**39**
1-Methylnaphthalene	1	47.3114	47.5889	0.58	41
1,1'-Biphenyl	1	42.6217	42.784	0.38	43
1,2,4,5-Tetrachlorobenzene	1	43.4712	43.6293	0.36	53
Hexachlorocyclopentadiene	1	0	0	NA	113
2-Chloronaphthalene	1	43.2752	43.5398	0.61	53
1,4-Dimethylnaphthalene	1	42.992	43.8381	1.9	45
Diphenyl Ether	1	43.8082	43.8961	0.2	52
2-Nitroaniline	1	46.7034	46.3719	0.71	46
Coumarin	1	45.8856	46.6465	1.6	43
Acenaphthylene	**1**	**47.4114**	**48.0436**	**1.3**	**48**
Dimethylphthalate	1	43.955	44.6663	1.6	49
2,6-Dinitrotoluene	1	43.3516	43.1024	0.58	49
Acenaphthene	**1**	**43.8817**	**43.8823**	**0**	**39**
3-Nitroaniline	1	42.1153	44.4449	5.4	51
Dibenzofuran	1	46.0592	46.4212	0.78	45
2,4-Dinitrotoluene	1	41.1773	41.8693	1.7	47
Fluorene	**1**	**43.9812**	**44.2019**	**0.5**	**41**
4-Chlorophenyl-phenylether	1	42.8738	43.5624	1.6	39
Diethylphthalate	1	44.8538	44.541	0.7	46
4-Nitroaniline	1	43.48	43.85	0.85	47
Atrazine	1	40.853	41.5547	1.7	59
n-Nitrosodiphenylamine	1	38.8834	38.6156	0.69	56
1,2-Diphenylhydrazine	1	46.9832	46.5792	0.86	45
4-Bromophenyl-phenylether	1	44.3362	44.3381	0	41
Hexachlorobenzene	1	42.5786	41.4528	2.7	54
N-Octadecane	1	54.2472	54.5798	0.61	42
Phenanthrene	**1**	**49.3044**	**47.4948**	**3.7**	**70**
Anthracene	**1**	**46.6399**	**45.7857**	**1.8**	**47**
Carbazole	1	47.5753	46.9234	1.4	46
Di-n-butylphthalate	1	46.7239	47.4433	1.5	47
Fluoranthene	**1**	**51.9968**	**50.398**	**3.1**	**63**
Pyrene	**1**	**56.6174**	**56.4081**	**0.37**	**61**
Benzidine	1	2.9767	3.3403	12	267
Butylbenzylphthalate	1	48.3722	49.0089	1.3	40
3,3'-Dichlorobenzidine	1	41.2341	42.7053	3.5	48

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: SMB108867

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Benzo[a]anthracene	1	49.0355	49.5129	0.97	55
Chrysene	1	50.4678	50.5072	0.08	54
bis(2-Ethylhexyl)phthalate	1	52.2628	53.9856	3.2	39
Di-n-octylphthalate	1	48.9274	48.9622	0.07	60
Benzo[b]fluoranthene	1	52.2177	51.2714	1.8	64
Benzo[k]fluoranthene	1	49.9209	51.16	2.5	57
Benzo[a]pyrene	1	53.1673	52.7825	0.73	58
Indeno[1,2,3-cd]pyrene	1	44.0156	43.7227	0.67	50
Dibenzo[a,h]anthracene	1	43.3841	43.4442	0.14	45
Benzo[g,h,i]perylene	1	41.8205	40.546	3.1	48

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

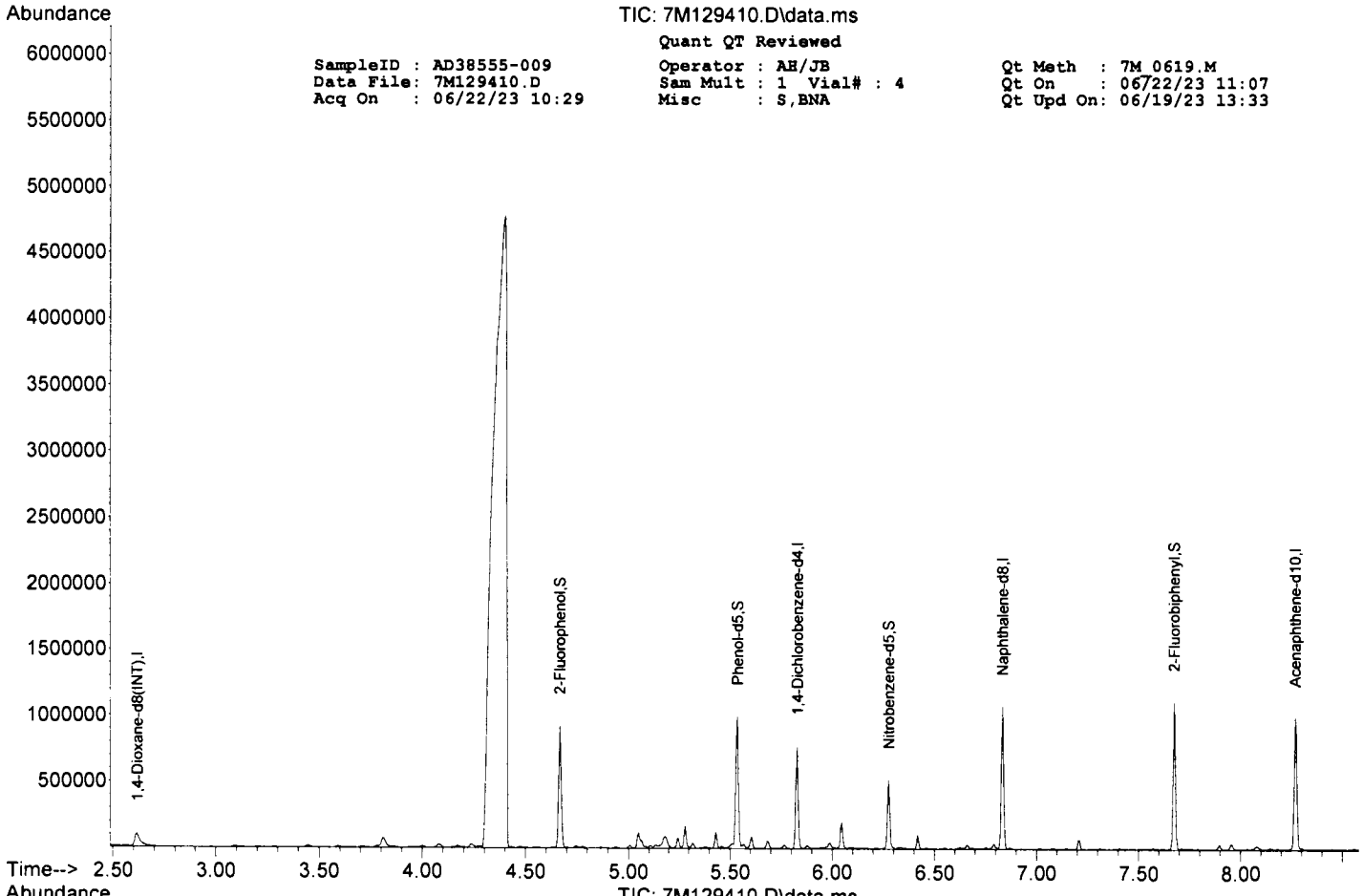
Quantitation Report (QT Reviewed)

SampleID : AD38555-009 Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129410.D Sam Mult : 1 Vial# : 4 Qt On : 06/22/23 11:07
Acq On : 06/22/23 10:29 Misc : S,BNA Qt Upd On: 06/19/23 13:33

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-22-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.617	96	58219	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.830	152	100702	40.00	ng	0.00
31) Naphthalene-d8	6.835	136	401980	40.00	ng	0.00
50) Acenaphthene-d10	8.269	164	223548	40.00	ng	0.00
77) Phenanthrene-d10	9.749	188	344026	40.00	ng	0.00
91) Chrysene-d12	12.828	240	248160	40.00	ng	0.00
103) Perylene-d12	14.485	264	241505	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.667	112	237936	67.61	ng	0.02
Spiked Amount 100.000			Recovery = 67.61%			
16) Phenol-d5	5.537	99	308631	74.23	ng	0.02
Spiked Amount 100.000			Recovery = 74.23%			
32) Nitrobenzene-d5	6.277	128	65572	35.30	ng	0.00
Spiked Amount 50.000			Recovery = 70.60%			
55) 2-Fluorobiphenyl	7.675	172	295539	40.53	ng	0.00
Spiked Amount 50.000			Recovery = 81.06%			
80) 2,4,6-Tribromophenol	9.021	330	60744	78.87	ng	0.00
Spiked Amount 100.000			Recovery = 78.87%			
94) Terphenyl-d14	11.571	244	215763	40.05	ng	0.01
Spiked Amount 50.000			Recovery = 80.10%			
Target Compounds						Qvalue
86) Phenanthrene	9.773	178	44667m	4.8829	ng	
90) Fluoranthene	11.118	202	88572m	8.8072	ng	
92) Pyrene	11.383	202	91094m	9.8485	ng	
100) Benzo[a]anthracene	12.817	228	41929m	5.1334	ng	
101) Chrysene	12.858	228	38874m	5.4311	ng	
105) Benzo[b]fluoranthene	14.044	252	48126m	6.2094	ng	
106) Benzo[k]fluoranthene	14.074	252	15502m	2.1733	ng	
107) Benzo[a]pyrene	14.415	252	35298m	5.2848	ng	
108) Indeno[1,2,3-cd]pyrene	15.866	276	22755m	2.9363	ng	
110) Benzo[g,h,i]perylene	16.265	276	22690m	3.5515	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed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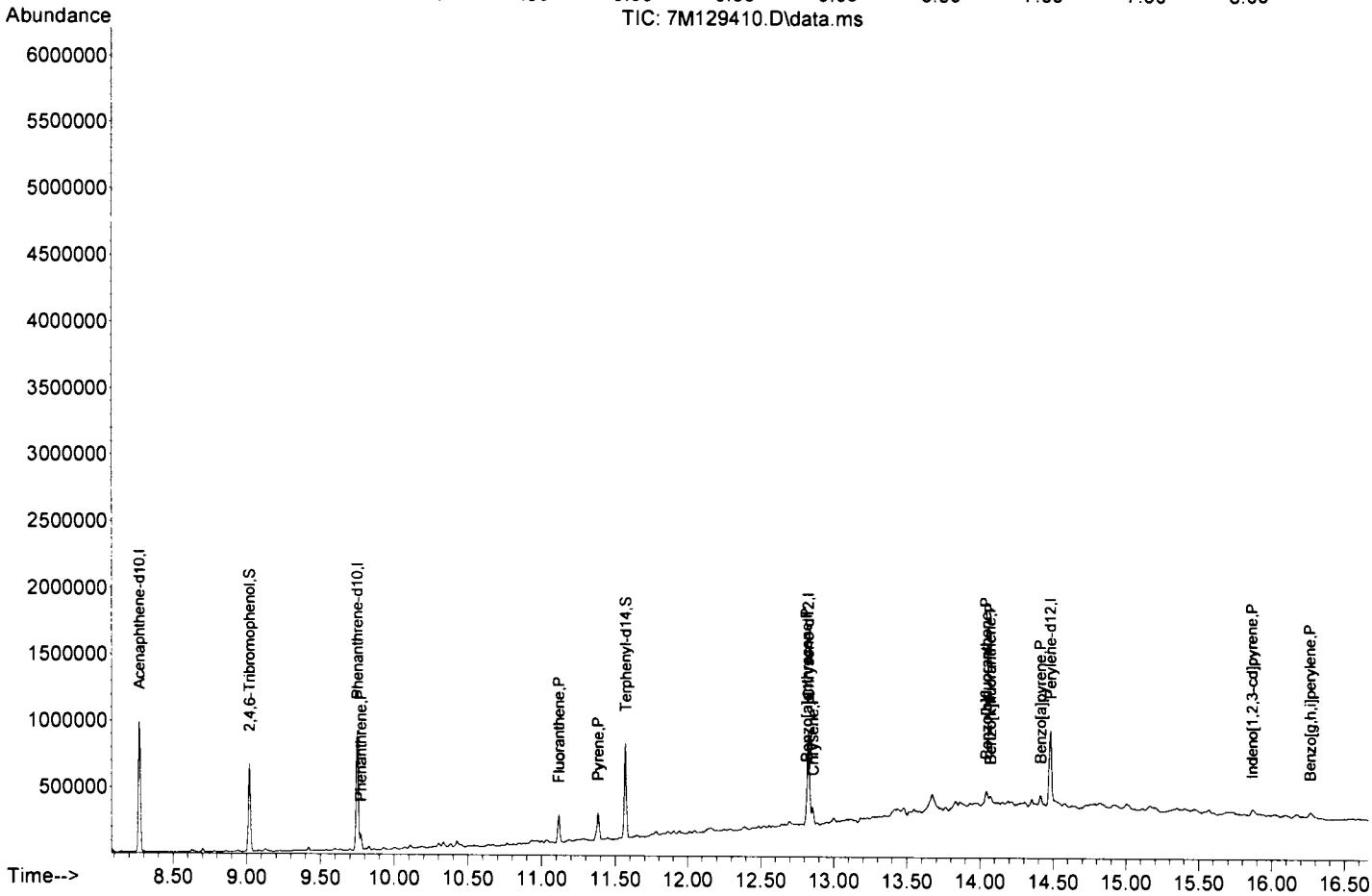
Quant QT Reviewed
SampleID : AD38555-009
Data File: 7M129410.D
Acq On : 06/22/23 10:29
Operator : AH/JB
Sam Mult : 1 Vial# : 4
Misc : S,BNA
Qt Meth : 7M_0619.M
Qt On : 06/22/23 11:07
Qt Upd On: 06/19/23 13:33
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Time-->


Abundance
TIC: 7M129410.D\data.ms
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Benzo[a]pyrene,P
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,P
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : AD38555-009(MS) Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129422.D Sam Mult : 1 Vial# : 16 Qt On : 06/22/23 16:30
Acq On : 06/22/23 15:26 Misc : S,BNA Qt Upd On: 06/19/23 13:33

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-22-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.611	96	44111	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.830	152	75480	40.00	ng	0.00
31) Naphthalene-d8	6.835	136	292609	40.00	ng	0.00
50) Acenaphthene-d10	8.275	164	167619	40.00	ng	0.00
77) Phenanthrene-d10	9.750	188	272336	40.00	ng	0.00
91) Chrysene-d12	12.828	240	192288	40.00	ng	0.00
103) Perylene-d12	14.491	264	188633	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.661	112	205591	77.10	ng	0.02
Spiked Amount 100.000			Recovery = 77.10%			
16) Phenol-d5	5.531	99	256419	81.40	ng	0.01
Spiked Amount 100.000			Recovery = 81.40%			
32) Nitrobenzene-d5	6.277	128	55260	40.87	ng	0.00
Spiked Amount 50.000			Recovery = 81.74%			
55) 2-Fluorobiphenyl	7.675	172	233404	42.69	ng	0.00
Spiked Amount 50.000			Recovery = 85.38%			
80) 2,4,6-Tribromophenol	9.027	330	51782	84.94	ng	0.00
Spiked Amount 100.000			Recovery = 84.94%			
94) Terphenyl-d14	11.565	244	188669	45.20	ng	0.00
Spiked Amount 50.000			Recovery = 90.40%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.652	88	17327	15.1958	ng	94
9) Pyridine	3.128	79	71766	33.6532	ng	71
10) N-Nitrosodimethylamine	3.069	74	61539	36.2240	ng	79
12) Benzaldehyde	5.460	77	65497	29.8250	ng	72
13) Aniline	5.554	93	107383	28.1242	ng	32
14) Pentachloroethane	5.590	117	36568	37.7724	ng	83
15) bis(2-Chloroethyl)ether	5.613	93	104672	39.8126	ng	77
17) Phenol	5.548	94	279969	77.9978	ng	95
18) 2-Chlorophenol	5.660	128	223081	82.6122	ng	79
19) N-Decane	5.689	57	78288	30.5795	ng	91
20) 1,3-Dichlorobenzene	5.778	146	106846	38.5945	ng	97
22) 1,4-Dichlorobenzene	5.842	146	110266	38.3368	ng	97
23) 1,2-Dichlorobenzene	5.966	146	105961	38.6543	ng	96
24) Benzyl alcohol	5.948	108	81145	41.7474	ng	69
25) bis(2-chloroisopropyl)...	6.054	45	103916	32.4329	ng	93
26) 2-Methylphenol	6.042	108	203716	78.3271	ng	97
27) Acetophenone	6.160	105	154433	40.8834	ng	88
28) Hexachloroethane	6.236	117	37157	31.4639	ng	80
29) N-Nitroso-di-n-propyla...	6.154	70	70649	37.7253	ng	80
30) 3&4-Methylphenol	6.160	108	201372	78.9543	ng	88
33) Nitrobenzene	6.295	77	114862	40.9422	ng	78
34) Isophorone	6.483	82	189734	35.3286	ng	87
35) 2-Nitrophenol	6.541	139	114772	75.4076	ng	90
36) 2,4-Dimethylphenol	6.571	107	228457	83.9695	ng	97
37) Benzoic Acid	6.653	105	94793	42.7422	ng	45
38) bis(2-Chloroethoxy)met...	6.641	93	126973	40.3926	ng	96
39) 2,4-Dichlorophenol	6.729	162	184597	84.0302	ng	88
40) 1,2,4-Trichlorobenzene	6.788	180	94171	41.7044	ng	99
41) Naphthalene	6.853	128	319716	40.8574	ng	99
42) 4-Chloroaniline	6.894	127	100839	34.1260	ng	95
43) Hexachlorobutadiene	6.935	225	48603	41.9575	ng	96
44) Caprolactam	7.176	113	41619	41.2038	ng	65
45) 4-Chloro-3-methylphenol	7.264	107	206249	84.3866	ng	80
46) 2-Methylnaphthalene	7.388	142	233460	45.9898	ng	99
47) 1-Methylnaphthalene	7.470	142	225992	47.5889	ng	91
49) 1,1'-Biphenyl	7.764	154	269738	42.7840	ng	95
51) 1,2,4,5-Tetrachloroben...	7.523	216	92817	43.6293	ng	99
53) 2,4,6-Trichlorophenol	7.617	196	139840	89.1339	ng	99
54) 2,4,5-Trichlorophenol	7.652	196	132791	80.6043	ng	99
56) 2-Chloronaphthalene	7.793	162	203879	43.5398	ng	90
57) 1,4-Dimethylnaphthalene	8.069	156	159566	43.8381	ng	91
59) Diphenyl Ether	7.852	170	148696	43.8961	ng	75
60) 2-Nitroaniline	7.869	65	80996	46.3719	ng	55
61) Coumarin	8.057	146	89648	46.6465	ng	85
62) Acenaphthylene	8.151	152	317723	48.0436	ng	99
63) Dimethylphthalate	8.010	163	245568	44.6663	ng	98
64) 2,6-Dinitrotoluene	8.075	165	51782	43.1024	ng	62
65) Acenaphthene	8.304	153	197471	43.8823	ng	98
66) 3-Nitroaniline	8.228	138	62923	44.4449	ng	73
67) 2,4-Dinitrophenol	8.322	184	5998	8.9491	ng	39
68) Dibenzofuran	8.463	168	313526	46.4212	ng	86

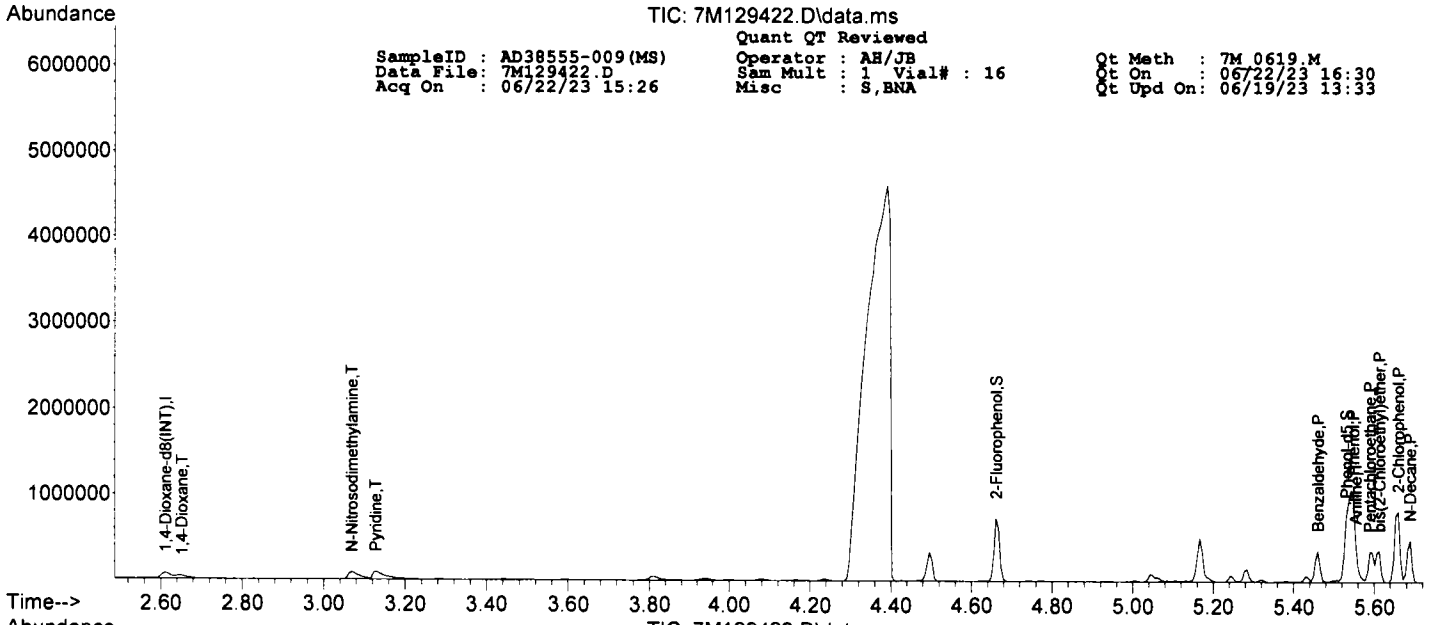
Quantitation Report (QT Reviewed)

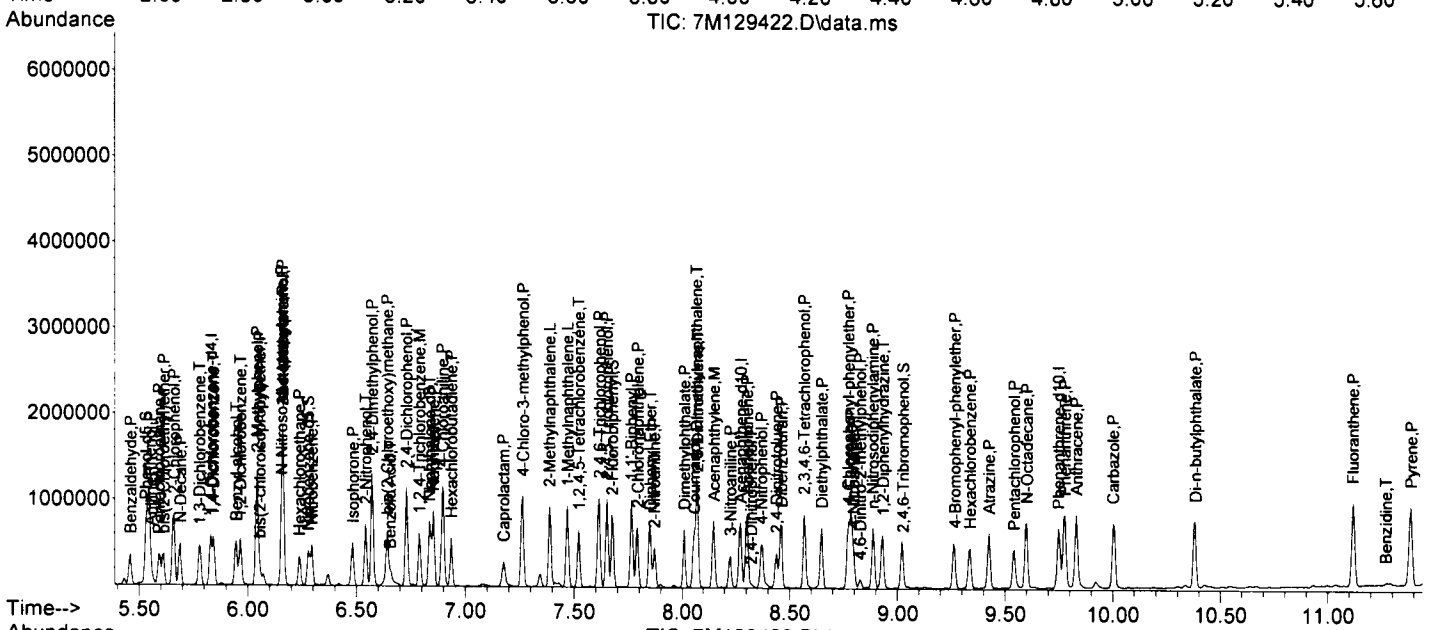
SampleID : AD38555-009(MS) Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129422.D Sam Mult : 1 Vial# : 16 Qt On : 06/22/23 16:30
Acq On : 06/22/23 15:26 Misc : S,BNA Qt Upd On: 06/19/23 13:33

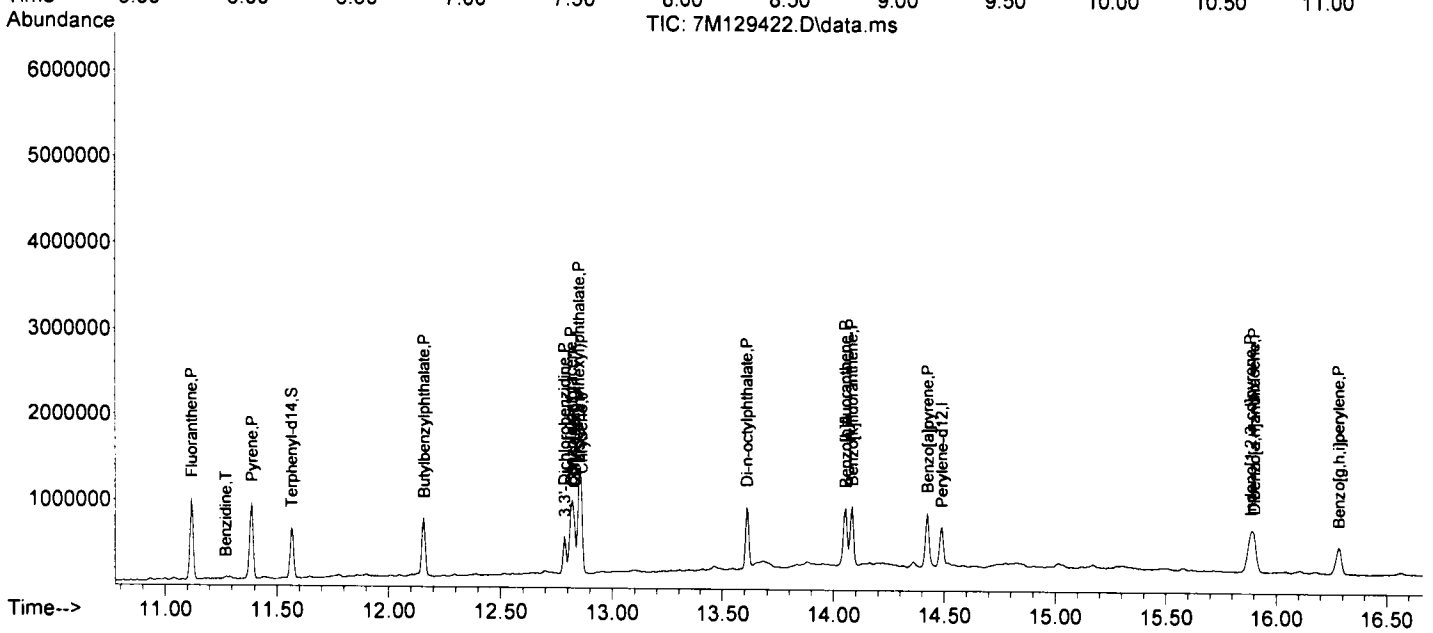
Data Path : G:\GcMsData\2023\GCMS_7\Data\06-22-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
69)	2,4-Dinitrotoluene	8.439	165	73123	41.8693	ng	62
70)	4-Nitrophenol	8.369	65	86919	80.5744	ng	85
71)	2,3,4,6-Tetrachlorophenol	8.569	232	96663	76.3797	ng	89
72)	Fluorene	8.786	166	238181	44.2019	ng	98
73)	4-Chlorophenyl-phenyle...	8.774	204	111745	43.5624	ng	82
74)	Diethylphthalate	8.651	149	239675	44.5410	ng	97
75)	4-Nitroaniline	8.798	138	68091	43.8500	ng	80
76)	Atrazine	9.426	200	68909	41.5547	ng	98
78)	4,6-Dinitro-2-methylph...	8.827	198	13504	15.2764	ng	52
79)	n-Nitrosodiphenylamine	8.886	169	173080	38.6156	ng	98
81)	1,2-Diphenylhydrazine	8.933	77	257062	46.5792	ng	80
82)	4-Bromophenyl-phenylether	9.268	248	61786	44.3381	ng	83
83)	Hexachlorobenzene	9.338	284	60881	41.4528	ng	68
84)	N-Octadecane	9.603	57	142102	54.5798	ng	76
85)	Pentachlorophenol	9.544	266	52845	63.2956	ng	99
86)	Phenanthrene	9.779	178	343926	47.4948	ng	99
87)	Anthracene	9.832	178	337580	45.7857	ng	100
88)	Carbazole	10.002	167	339083	46.9234	ng	97
89)	Di-n-butylphthalate	10.384	149	427404	47.4433	ng	97
90)	Fluoranthene	11.119	202	401225	50.3980	ng	92
92)	Pyrene	11.389	202	404278	56.4081	ng	86
93)	Benzidine	11.271	184	13391	3.3403	ng	85
97)	Butylbenzylphthalate	12.159	149	172584	49.0089	ng	74
99)	3,3'-Dichlorobenzidine	12.787	252	98253	42.7053	ng	96
100)	Benzo[a]anthracene	12.817	228	313362	49.5129	ng	99
101)	Chrysene	12.864	228	280121	50.5072	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.852	149	239435	53.9856	ng	95
104)	Di-n-octylphthalate	13.610	149	395763	48.9622	ng	99
105)	Benzo[b]fluoranthene	14.056	252	310383m	51.2714	ng	
106)	Benzo[k]fluoranthene	14.086	252	285026m	51.1600	ng	
107)	Benzo[a]pyrene	14.426	252	275360	52.7825	ng	92
108)	Indeno[1,2,3-cd]pyrene	15.884	276	264655	43.7227	ng	99
109)	Dibenzo[a,h]anthracene	15.901	278	218454	43.4442	ng	89
110)	Benzo[g,h,i]perylene	16.283	276	202330	40.5460	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 7M129422.D\data.ms
Quant QT Reviewed
SampleID : AD38555-009(MS)
Data File: 7M129422.D
Acq On : 06/22/23 15:26
Operator : AH/JB
Sam Mult : 1 Vial# : 16
Misc : S,BNA
Qt Meth : 7M_0619.M
Qt On : 06/22/23 16:30
Qt Upd On: 06/19/23 13:33
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->


Abundance
TIC: 7M129422.D\data.ms
Benzaldehyde,P
Isophorone,P
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Methylnaphthalene,I
1-Methylnaphthalene,I
1,2,4,5-Tetrachlorobenzene,T
Acenaphthylene,M
3-Nitroaniline,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 7M129422.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : AD38555-009(MSD) Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129423.D Sam Mult : 1 Vial# : 17 Qt On : 06/22/23 16:30
Acq On : 06/22/23 15:50 Misc : S,BNA Qt Upd On: 06/19/23 13:33

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-22-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.611	96	45278	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.830	152	79314	40.00	ng	0.00
31) Naphthalene-d8	6.835	136	308281	40.00	ng	0.00
50) Acenaphthene-d10	8.275	164	177186	40.00	ng	0.00
77) Phenanthrene-d10	9.750	188	285743	40.00	ng	0.00
91) Chrysene-d12	12.828	240	206612	40.00	ng	0.00
103) Perylene-d12	14.479	264	201951	40.00	ng	-0.01
System Monitoring Compounds						
11) 2-Fluorophenol	4.667	112	208961	76.35	ng	0.02
Spiked Amount 100.000			Recovery = 76.35%			
16) Phenol-d5	5.537	99	261934	81.01	ng	0.02
Spiked Amount 100.000			Recovery = 81.01%			
32) Nitrobenzene-d5	6.277	128	56195	39.45	ng	0.00
Spiked Amount 50.000			Recovery = 78.90%			
55) 2-Fluorobiphenyl	7.681	172	238165	41.21	ng	0.00
Spiked Amount 50.000			Recovery = 82.42%			
80) 2,4,6-Tribromophenol	9.021	330	51263	80.14	ng	0.00
Spiked Amount 100.000			Recovery = 80.14%			
94) Terphenyl-d14	11.565	244	189882	42.33	ng	0.00
Spiked Amount 50.000			Recovery = 84.66%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.652	88	20565	17.5707	ng	95
9) Pyridine	3.128	79	80553	36.8001	ng	69
10) N-Nitrosodimethylamine	3.069	74	65595	37.6163	ng	86
12) Benzaldehyde	5.460	77	71715	31.8147	ng	65
13) Aniline	5.554	93	95027	24.2467	ng	8
14) Pentachloroethane	5.590	117	38865	39.1104	ng	84
15) bis(2-Chloroethyl)ether	5.613	93	109101	40.4276	ng	79
17) Phenol	5.548	94	298621	81.0499	ng	92
18) 2-Chlorophenol	5.660	128	237969	85.8542	ng	78
19) N-Decane	5.689	57	89102	33.9064	ng	90
20) 1,3-Dichlorobenzene	5.784	146	114605	40.3302	ng	98
22) 1,4-Dichlorobenzene	5.842	146	116374	38.5046	ng	97
23) 1,2-Dichlorobenzene	5.966	146	112934	39.2065	ng	98
24) Benzyl alcohol	5.948	108	83656	40.9588	ng	71
25) bis(2-chloroisopropyl)...	6.054	45	109448	32.5082	ng	92
26) 2-Methylphenol	6.042	108	217122	79.4461	ng	99
27) Acetophenone	6.160	105	161230	40.6195	ng	89
28) Hexachloroethane	6.236	117	39634	31.9391	ng	82
29) N-Nitroso-di-n-propyla...	6.154	70	75596	38.4155	ng	83
30) 3&4-Methylphenol	6.165	108	214046	79.8668	ng	90
33) Nitrobenzene	6.295	77	120789	40.8661	ng	76
34) Isophorone	6.483	82	199820	35.3151	ng	87
35) 2-Nitrophenol	6.541	139	122258	76.2425	ng	89
36) 2,4-Dimethylphenol	6.571	107	237684	82.9197	ng	96
37) Benzoic Acid	6.653	105	98440	42.1302	ng	36
38) bis(2-Chloroethoxy)met...	6.641	93	132931	40.1382	ng	96
39) 2,4-Dichlorophenol	6.729	162	197643	85.3951	ng	89
40) 1,2,4-Trichlorobenzene	6.788	180	97854	41.1324	ng	99
41) Naphthalene	6.853	128	338732	41.0869	ng	99
42) 4-Chloroaniline	6.894	127	82738	26.5768	ng	94
43) Hexachlorobutadiene	6.935	225	51057	41.8353	ng	97
44) Caprolactam	7.176	113	42363	39.8082	ng	72
45) 4-Chloro-3-methylphenol	7.264	107	217433	84.4399	ng	83
46) 2-Methylnaphthalene	7.388	142	247688	46.3122	ng	98
47) 1-Methylnaphthalene	7.470	142	236708	47.3114	ng	91
49) 1,1'-Biphenyl	7.764	154	283107	42.6217	ng	95
51) 1,2,4,5-Tetrachloroben...	7.523	216	97759	43.4712	ng	97
53) 2,4,6-Trichlorophenol	7.617	196	147986	89.2331	ng	100
54) 2,4,5-Trichlorophenol	7.652	196	140149	80.4773	ng	98
56) 2-Chloronaphthalene	7.793	162	214206	43.2752	ng	91
57) 1,4-Dimethylnaphthalene	8.069	156	165418	42.9920	ng	92
59) Diphenyl Ether	7.852	170	156868	43.8082	ng	76
60) 2-Nitroaniline	7.869	65	86231	46.7034	ng	57
61) Coumarin	8.057	146	93219	45.8856	ng	86
62) Acenaphthylene	8.151	152	331438	47.4114	ng	99
63) Dimethylphthalate	8.010	163	255450	43.9550	ng	99
64) 2,6-Dinitrotoluene	8.075	165	55054	43.3516	ng	60
65) Acenaphthene	8.304	153	208739	43.8817	ng	97
66) 3-Nitroaniline	8.228	138	63028	42.1153	ng	76
67) 2,4-Dinitrophenol	8.322	184	8507	12.0072	ng	42
68) Dibenzofuran	8.463	168	328836	46.0592	ng	84

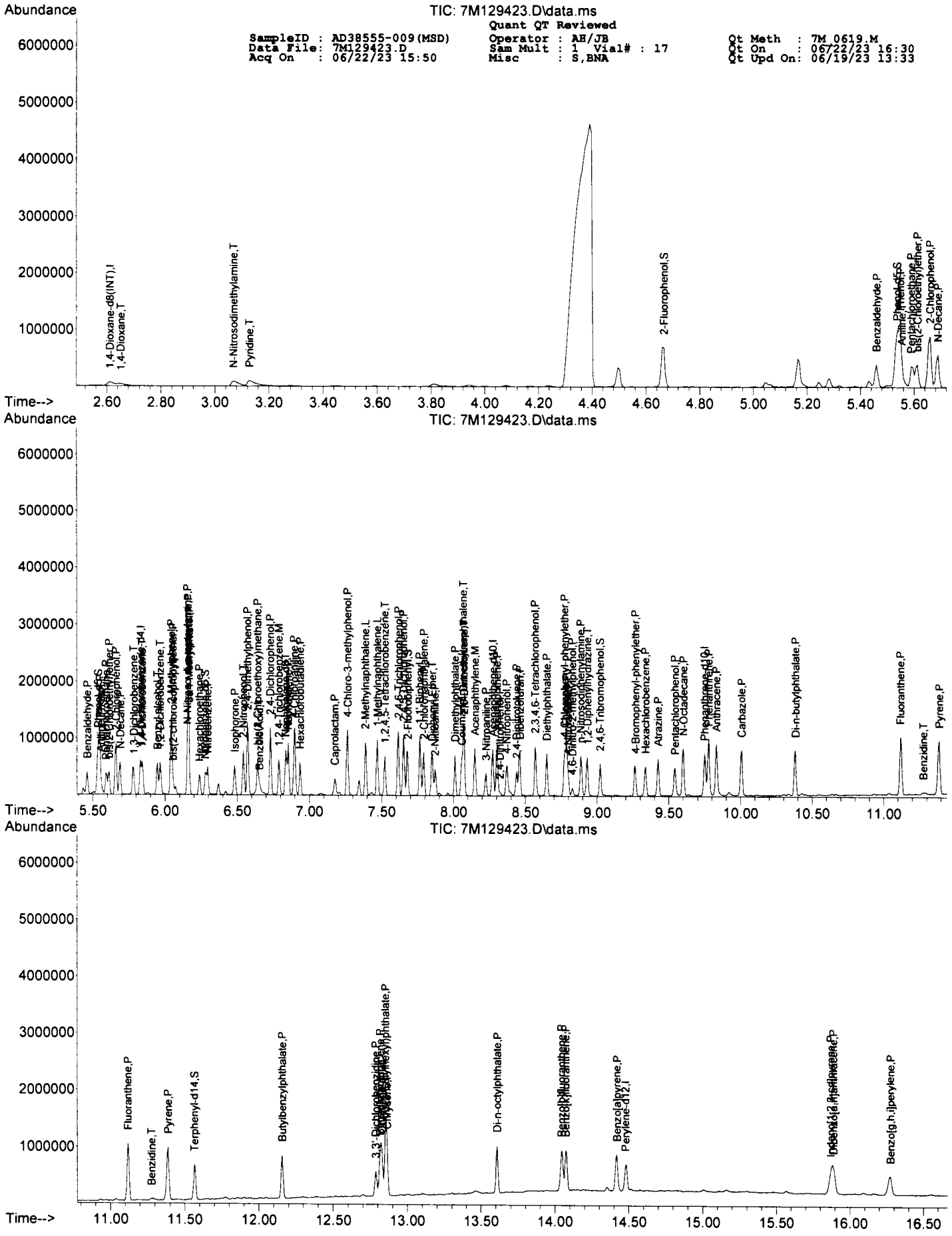
Quantitation Report (QT Reviewed)

SampleID : AD38555-009(MSD) Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129423.D Sam Mult : 1 Vial# : 17 Qt On : 06/22/23 16:30
Acq On : 06/22/23 15:50 Misc : S,BNA Qt Upd On: 06/19/23 13:33

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-22-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
69)	2,4-Dinitrotoluene	8.439	165	76019	41.1773	ng	63
70)	4-Nitrophenol	8.369	65	91993	80.6735	ng	85
71)	2,3,4,6-Tetrachlorophenol	8.569	232	103018	77.0060	ng	87
72)	Fluorene	8.786	166	250518	43.9812	ng	99
73)	4-Chlorophenyl-phenyle...	8.774	204	116256	42.8738	ng	84
74)	Diethylphthalate	8.651	149	255134	44.8538	ng	98
75)	4-Nitroaniline	8.798	138	71370	43.4800	ng	79
76)	Atrazine	9.426	200	71612	40.8530	ng	96
78)	4,6-Dinitro-2-methylph...	8.827	198	18725	20.1887	ng	57
79)	n-Nitrosodiphenylamine	8.886	169	182860	38.8834	ng	98
81)	1,2-Diphenylhydrazine	8.933	77	272056	46.9832	ng	81
82)	4-Bromophenyl-phenylether	9.268	248	64825	44.3362	ng	84
83)	Hexachlorobenzene	9.338	284	65613	42.5786	ng	66
84)	N-Octadecane	9.603	57	148189	54.2472	ng	74
85)	Pentachlorophenol	9.544	266	57644	65.8041	ng	98
86)	Phenanthrene	9.779	178	374606	49.3044	ng	99
87)	Anthracene	9.832	178	360807	46.6399	ng	99
88)	Carbazole	10.008	167	360718	47.5753	ng	97
89)	Di-n-butylphthalate	10.384	149	441645	46.7239	ng	97
90)	Fluoranthene	11.119	202	434332	51.9968	ng	93
92)	Pyrene	11.389	202	436006	56.6174	ng	87
93)	Benzidine	11.277	184	12822	2.9767	ng	86
97)	Butylbenzylphthalate	12.159	149	183031	48.3722	ng	72
99)	3,3'-Dichlorobenzidine	12.787	252	101935	41.2341	ng	97
100)	Benzo[a]anthracene	12.817	228	333459	49.0355	ng	99
101)	Chrysene	12.864	228	300753	50.4678	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.852	149	249061	52.2628	ng	94
104)	Di-n-octylphthalate	13.610	149	423404	48.9274	ng	100
105)	Benzo[b]fluoranthene	14.045	252	338430m	52.2177	ng	
106)	Benzo[k]fluoranthene	14.074	252	297759m	49.9209	ng	
107)	Benzo[a]pyrene	14.421	252	296950	53.1673	ng	92
108)	Indeno[1,2,3-cd]pyrene	15.872	276	285238	44.0156	ng	87
109)	Dibenzo[a,h]anthracene	15.889	278	233554	43.3841	ng	89
110)	Benzo[g,h,i]perylene	16.277	276	223424	41.8205	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed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Quant QT Reviewed
SampleID : AD38555-009(MSD)
Data File: 7M129423.D
Acq On : 06/22/23 15:50
Operator : AH/JB
Sam Mult : 1 Vial# : 17
Misc : S,BNA
Qt Meth : 7M_0619.M
Qt On : 06/22/23 16:30
Qt Upd On: 06/19/23 13:33
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Phenol-d5,S
Phenol,P
Pentachloroethane,P
bis(2-Chloroethyl)ether,P
2-Chlorophenol,P
N-Decane,P
Time-->
Abundance
TIC: 7M129423.D\data.ms
Benzaldehyde,P
Isophorone,P
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Methylnaphthalene,L
1-Methylnaphthalene,L
1,2,4,5-Tetrachlorobenzene,T
Dimethylphthalate,P
Acenaphthylene,M
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->
Abundance
TIC: 7M129423.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
Di-n-octylphthalate,P
Benzo(a)pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

GC/MS Base Neutral/Acid Extractable Data
Logbook Data

QC108867

Hampton-Clarke

Analysis: BN/ BNA /AE

Method Blank No. SMB- 108867
Blank Spike (SMBS): _____
Blank Spike (SMBS): _____
Start Ext Time: 9:00 AM
End Ext. Time: 4:30 PM
Recirculator: Start temp: 13.9°C
End temp: 13.9°C

Date: 06/21/2023
Matrix Spike: 38555-009
Matrix Spike: _____
Sonicator Used: 1-2
Condenser Used: 4
Condenser Flow: 2500 CCM

SONICATION EXTRACTION (3550B) UNLESS CHECKED HERE: ASE (3545)

Sample Number	# in Batch	Initial Weight (g)	Final Volume (ml)	Fraction BN	Fraction BNA	Fraction AE	Extracted By	Extract Appearance Color	Extract Appearance Clarity	Extract Appearance Sediment	Comments
MB 108867		30g	0.5		X		PP				Balance ID: 41
MBS 108867		↓	↓		↓		↓				
MS 38555-009											
MSD 38555-009											
AD 38555-009	1										
011	2										
013	3		↓								
015	4		1 mL								
AD 38513-003	5		0.5								
004	6										
005	7										
006	8										
007	9										
008	10										
009	11										
AD 38537-001	12										
002	13										
003	14										
004	15										
005	16										
006	17										
007	18										
008	19										
AD 38623-001	20	↓	↓		↓		↓				

Spike Standard

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
25	1000	393 504	BN Tox
↓	1000	393 505	CIP Mix
↓	2000	15283	Acid Comp

Surrogate Standard

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
25	1000/2000	3769 59	5422

Reagent Lots: $MeCl_2$ 15357 Acetone 15356 Hexane _____ Na2SO4 399751 Ether _____
MTBE _____ $MeCl_2$:Acetone _____ Other _____

Relinquished By: PP Date: 06/21/2023
Received By: MP Date: 06/22/23

T:\QC\FORMS\LOGBOOK FORMS\extractions\BN Soil Ext Log 2016.doc

RUN LOG

1-1-7M129283

Instrument: GCMS_7 Year: 2023
Analyst: AH/JB

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
7M129283.	CAL DFTPP	Ee1=2.3;Ed1=2;	OK, V-395403	JB 06/20/23		Aqueous	1	1		06/19 08:46
7M129284.	CAL BNA@2PPM		OK, V-397599	JB 06/20/23		Aqueous	1	1	625\8270	06/19 09:10
7M129285.	CAL BNA@196PPM		OK, V-397597	JB 06/20/23		Aqueous	1	1	625\8270	06/19 09:36
7M129286.	CAL BNA@160PPM		OK, V-397596	JB 06/20/23		Aqueous	1	1	625\8270	06/19 10:00
7M129287.	CAL BNA@120PPM		OK, V-397595	JB 06/20/23		Aqueous	1	1	625\8270	06/19 10:23
7M129288.	CAL BNA@80PPM	IsC16C18	RR	JB 06/20/23		Aqueous	1	1	625\8270	06/19 10:47
7M129289.	CAL BNA@20PPM		OK, V-397592	JB 06/20/23		Aqueous	1	1	625\8270	06/19 11:10
7M129290.	CAL BNA@10PPM		OK, V-397591	JB 06/20/23		Aqueous	1	1	625\8270	06/19 11:34
7M129291.	CAL BNA@0.5PPM		OK, V-397600	JB 06/20/23		Aqueous	1	1	625\8270	06/19 11:57
7M129292.	CAL BNA@50PPM		OK, V-397593	JB 06/20/23		Aqueous	1	1	625\8270	06/19 12:21
7M129293.	CAL BNA@80PPM		OK, V-397594	JB 06/20/23		Aqueous	1	1	625\8270	06/19 13:08
7M129294.	ICV BNA@50PPM	Is	OK, V-397602	JB 06/20/23		Aqueous	1	1	625\8270	06/19 13:32

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 ... not checked
B8m	Blank 8000 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for enh
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R18 R28	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Endrin Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a samp	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

Instrument: GCMS_9 Year: 2023
Analyst: AH/JB

1-1-9M122387

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
9M122387.	CAL DFTPP	Ee1=0.8;Ed1=0.75;	OK, V-395403	AH 06/22/23		Aqueous	1	1		06/21 11:22
9M122388.	CAL BNA@10PPM		OK, V-397591	AH 06/22/23		Aqueous	1	1	625\8270	06/21 11:44
9M122389.	CAL BNA@2PPM		OK, V-397599	AH 06/22/23		Aqueous	1	1	625\8270	06/21 12:06
9M122390.	CAL BNA@196PPM		OK, V-397597	AH 06/22/23		Aqueous	1	1	625\8270	06/21 12:29
9M122391.	CAL BNA@160PPM		OK, V-397596	AH 06/22/23		Aqueous	1	1	625\8270	06/21 12:51
9M122392.	CAL BNA@120PPM		OK, V-397595	AH 06/22/23		Aqueous	1	1	625\8270	06/21 13:14
9M122393.	CAL BNA@80PPM		OK, V-397594	AH 06/22/23		Aqueous	1	1	625\8270	06/21 13:36
9M122394.	CAL BNA@20PPM		OK, V-397592	AH 06/22/23		Aqueous	1	1	625\8270	06/21 13:59
9M122395.	CAL BNA@0.5PPM		OK, V-397600	AH 06/22/23		Aqueous	1	1	625\8270	06/21 14:21
9M122396.	CAL BNA@50PPM		OK, V-397593	AH 06/22/23		Aqueous	1	1	625\8270	06/21 14:44
9M122397.	ICV BNA@50PPM	Is	OK, V-397602	AH 06/22/23		Aqueous	1	1	625\8270	06/21 15:07

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
An	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B8m	Blank 8000 series missing	Etn	Tcln/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for eob
B8m	Blank 8000 series missing	Eto	Tcln Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing drfl or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calgd.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Endrin Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

1-1-7M129374

Instrument: GCMS_7 Year: 2023
Analyst: AH/JB

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
7M129374.	CAL DFTPP	Ee1=6.7;Ed1=3.5;	OK, V-,OK, V-395403	AH 06/22/23		Aqueous	1	1		06/21 14:09
7M129375.	CAL BNA@50PPM		OK, V-397593	AH 06/22/23		Aqueous	1	1	625\8270	06/21 14:33
7M129376.	SMB108867(MS)		OK SMB108867	AH 06/22/23		Soil	1	1	8270E	06/21 14:57
7M129377.	SMB108868(MS)	Ao	RR SMB108868	AH 06/22/23		Soil	1	1	8270E	06/21 15:20
7M129378.	SMB108867		OK	AH 06/22/23		Soil	1	1	8270E	06/21 15:44
7M129379.	SMB108868	Ao	RR	AH 06/22/23		Soil	1	1	8270E	06/21 16:07
7M129380.	SMB108852		OK	AH 06/22/23		Soil	1	1	8270E	06/21 16:31
7M129381.	AD38595-002		OK SMB108849	AH 06/22/23	BNATCLP-82	Soil	1	1	8270E	06/21 16:55
7M129382.	AD38595-002(MS)		OK SMB108849	AH 06/22/23	BNATCLP-82	Soil	1	1	8270E	06/21 17:19
7M129383.	AD38595-002(MSD)		OK SMB108849	AH 06/22/23	BNATCLP-82	Soil	1	1	8270E	06/21 17:42
7M129384.	AD38613-007(10X)		OK, DIRTY	AH 06/22/23	BNASPLP-82	Soil	10	10	8270E	06/21 18:06
7M129385.	AD38613-009(5X)		OK, DIRTY	AH 06/22/23	BNA15-8270	Soil	5	5	8270E	06/21 18:30
7M129386.	AD38469-005(3X)	Esm	OK	AH 06/22/23	BNPSPLP-82	Soil	3	3	8270E	06/21 18:53
7M129387.	AD38493-010(3X)		OK	AH 06/22/23	BNPAH-8270	Soil	3	3	8270E	06/21 19:17
7M129388.	AD38493-007(5X)		OK	AH 06/22/23	BNPAH-8270	Soil	5	5	8270E	06/21 19:41
7M129389.	AD38518-001		OK	AH 06/22/23	BNPAH-8270	Soil	1	1	8270E	06/21 20:05
7M129390.	AD38518-006		OK	AH 06/22/23	BNPAH-8270	Soil	1	1	8270E	06/21 20:28
7M129391.	AD38556-001		OK	AH 06/22/23	BNA-8270	Soil	1	1	8270E	06/21 20:53
7M129392.	AD38556-005		OK	AH 06/22/23	BNA-8270	Soil	1	1	8270E	06/21 21:16
7M129393.	AD38556-003(3X)		OK	AH 06/22/23	BNA-8270	Soil	3	3	8270E	06/21 21:40
7M129394.	AD38556-003(3X)(M		OK	AH 06/22/23	BNA-8270	Soil	3	3	8270E	06/21 22:04
7M129395.	AD38556-003(3X)(M		OK	AH 06/22/23	BNA-8270	Soil	3	3	8270E	06/21 22:27
7M129396.	AD38555-007(5X)		OK, DIRTY	AH 06/22/23	BNA-8270	Soil	5	5	8270E	06/21 22:50
7M129397.	AD38571-001		OK	AH 06/22/23	BNPAH-8270	Soil	1	1	8270E	06/21 23:14
7M129398.	AD38571-002(3X)		OK, DIRTY	AH 06/22/23	BNA15-8270	Soil	3	3	8270E	06/21 23:37
7M129399.	AD38571-003(3X)		OK, DIRTY	AH 06/22/23	BNPAH-8270	Soil	3	3	8270E	06/22 00:00
7M129400.	AD38571-004		OK	AH 06/22/23	BNPAH-8270	Soil	1	1	8270E	06/22 00:24
7M129401.	AD38571-005(5X)		OK, DIRTY	AH 06/22/23	BNA15-8270	Soil	5	5	8270E	06/22 00:48
7M129402.	AD38571-006(3X)		OK, DIRTY	AH 06/22/23	BNPAH-8270	Soil	3	3	8270E	06/22 01:12
7M129403.	AD38571-007		OK	AH 06/22/23	BNA15-8270	Soil	1	1	8270E	06/22 01:35
7M129404.	AD38571-008		OK	AH 06/22/23	BNPAH-8270	Soil	1	1	8270E	06/22 01:59
7M129405.	AD38571-009	Ti8	RR	AH 06/22/23	BNPAH-8270	Soil	1	1	8270E	06/22 02:22
7M129406.	AD38571-010	Ti8	RR	AH 06/22/23	BNA15-8270	Soil	1	1	8270E	06/22 02:46

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 ... not checked
B6m	Blank 600 series missing	Etn	Tcln/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for anh
B8m	Blank 8000 series missing	Eto	Tcln Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or enddtn
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Rto	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt.csv for init calibration chek.rls	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning .Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

1-1-9M122398

Instrument: GCMS_9 Year: 2023
Analyst: AH/JB

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
9M122398.	CAL DFTPP	Ee1=3.9;Ed1=1.8;	OK, V-395403	AH 06/22/23		Aqueous	1	1		06/21 15:29
9M122399.	CAL BNA@50PPM		OK, V-397593	AH 06/22/23		Aqueous	1	1	625\8270	06/21 15:54
9M122400.	SMB108834		OK, SURRO. SPIKED DOUBLE	AH 06/22/23		Soil	0.5	1	8270E	06/21 16:17
9M122401.	SMB108852		OK	AH 06/22/23		Soil	1	1	8270E	06/21 17:02
9M122402.	SMB108867		OK	AH 06/22/23		Soil	1	1	8270E	06/21 17:25
9M122403.	SMB108868		OK	AH 06/22/23		Soil	1	1	8270E	06/21 17:47
9M122404.	AD38537-001		OK	AH 06/22/23	BNPAH-8270	Soil	1	1	8270E	06/21 18:10
9M122405.	AD38537-003		OK	AH 06/22/23	BNPAH-8270	Soil	1	1	8270E	06/21 18:33
9M122406.	AD38537-005		OK	AH 06/22/23	BNPAH-8270	Soil	1	1	8270E	06/21 18:55
9M122407.	AD38537-006		OK	AH 06/22/23	BNPAH-8270	Soil	1	1	8270E	06/21 19:18
9M122408.	AD38537-008		OK	AH 06/22/23	BNPAH-8270	Soil	1	1	8270E	06/21 19:40
9M122409.	AD38513-003		OK	AH 06/22/23	BNPAH-8270	Soil	1	1	8270E	06/21 20:03
9M122410.	AD38513-005		OK	AH 06/22/23	ERROR	Soil	1	1	8270E	06/21 20:25
9M122411.	AD38513-006		OK	AH 06/22/23	BNPAH-8270	Soil	1	1	8270E	06/21 20:48
9M122412.	AD38555-011		OK	AH 06/22/23	BNA-8270	Soil	1	1	8270E	06/21 21:10
9M122413.	AD38555-013		OK	AH 06/22/23	BNA-8270	Soil	1	1	8270E	06/21 21:33
9M122414.	AD38623-001		OK	AH 06/22/23	BN-PALOS82	Soil	1	1	8270E	06/21 21:55

Anc	Area Not Checked	Ep	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 ... not checked
B8m	Blank 8000 series missing	Etn	Tcln/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for enb
B8m	Blank 8000 series missing	Eto	Tcln Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Hn	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I28	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C8f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Ddft
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Endrin Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

Instrument: GCMS_7 Year: 2023
Analyst: AH/JB

1-1-7M129407

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
7M129407.	CAL DFTPP	Ee1=4.6;Ed1=1.9;	OK, V-395403	AH 06/23/23		Aqueous	1	1		06/22 09:19
7M129408.	CAL BNA@50PPM		OK, V-397593	AH 06/23/23		Aqueous	1	1	625\8270	06/22 09:43
7M129409.	AD38615-021		OK	AH 06/23/23	BNA-8270	Soil	1	1	8270E	06/22 10:06
7M129410.	AD38555-009		OK SMB108867	AH 06/23/23	BNA-8270	Soil	1	1	8270E	06/22 10:29
7M129411.	SMB108868		OK	AH 06/23/23		Soil	1	1	8270E	06/22 10:52
7M129412.	AD38555-015(10X)	Ocf	RR 30X	AH 06/23/23	BNA-8270	Soil	20	10	8270E	06/22 11:33
7M129413.	AD38537-004		OK	AH 06/23/23	BNPAH-8270	Soil	1	1	8270E	06/22 11:56
7M129414.	AD38537-002		OK	AH 06/23/23	BNPAH-8270	Soil	1	1	8270E	06/22 12:19
7M129415.	SMB108875		OK	AH 06/23/23		Soil	1	1	8270E	06/22 12:42
7M129416.	AD38537-007(3X)		OK	AH 06/23/23	BNPAH-8270	Soil	3	3	8270E	06/22 13:06
7M129417.	SMB108876		OK	AH 06/23/23		Soil	1	1	8270E	06/22 13:29
7M129418.	AD38513-004		OK	AH 06/23/23	ERROR	Soil	1	1	8270E	06/22 13:52
7M129419.	AD38513-007(5X)	Ocf	RR 15X	AH 06/23/23	BNPAH-8270	Soil	5	5	6270E	06/22 14:16
7M129420.	AD38513-008(3X)	Ocf	RR 5X	AH 06/23/23	BNPAH-8270	Soil	3	3	8270E	06/22 14:39
7M129421.	AD38513-009		OK	AH 06/23/23	BNPAH-8270	Soil	1	1	8270E	06/22 15:02
7M129422.	AD38555-009(MS)	M18	OK SMB108867	AH 06/23/23	BNA-8270	Soil	1	1	8270E	06/22 15:26
7M129423.	AD38555-009(MSD)	R18M18	OK SMB108867	AH 06/23/23	BNA-8270	Soil	1	1	8270E	06/22 15:50

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B8m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for enh
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hh	Analysis Before Collection Date	Evrc	Eval Mix missing drfl or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C8f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Endrin Cal missing for sample (8000 series)	Iw	Initial cal warning Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval.	Ix	Initial Cal Files Not Updated Properly for a samol	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-376959

Prepared By: Hamid, Akmal
Description: BNA Surrog.Std.
Prep Date: 7/28/2022
Expiration Date: 7/28/2023
Department: Organics
BatchNumber:
Concentration: 1000-2000 pp
Final Volume: 1000 ml
ApprovedBy: akmal
ApproveDate: 07/29/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
13086	2-Fluorobiphenyl	1 g	NEAT neat	1000 ppm
14141	p-Terphenyl-d14	1 g	NEAT neat	1000 ppm
12713	Phenol-2,3,4,5,6-d5	2 g	NEAT neat	2000 ppm
12019	2,4,6-Tribromophenol	2 g	NEAT neat	2000 ppm
12021	Nitrobenzene-d5	800 ul	NEAT neat	1000 ppm
12716	2-Fluorophenol	1.6 ml	NEAT neat	2000 ppm
14703	acetone	1000 ml	neat neat	

Veritech Lot Number: V-380075

Prepared By: Hamid, Akmal
Description: Benzaldehyde Std (2nd source)
Prep Date: 9/15/2022
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 25 ml
ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
9150	Benzaldehyde	.25 g	NEAT neat	10000 ppm
14801	acetone	25 ml	neat neat	

Veritech Lot Number: V-380193

Prepared By: Hamid, Akmal
Description: 8270 EXTRA MIX#1(2nd Source)(DAN
Prep Date: 9/16/2022
Expiration Date: 8/30/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 09/16/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12844	Caprolactam	.5 g	NEAT neat	10000 ppm
12843	1,2,4,5-Tetrachlorobenzene	.5 g	NEAT neat	10000 ppm
14222	Atrazine	.5 g	NEAT neat	10000 ppm
11341	Acetophenone	.5 g	NEAT neat	10000 ppm
9149	Diphenyl Ether	.5 g	NEAT neat	10000 ppm
14204	1- Methylnaphthalene	.5 g	NEAT neat	10000 ppm
13821	1,4 Dioxane	.5 g	NEAT neat	10000 ppm
14800	ACETONE	50 ml	neat neat	

Veritech Lot Number: V-380429

Prepared By: Hamid, Akmal
Description: 8270 EXTRA MIX#2A
Prep Date: 9/20/2022
Expiration Date: 9/20/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 25 ml
ApprovedBy: akmal
ApproveDate: 09/20/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14184	Carbazole	.25 g	NEAT neat	10000 ppm
14821	Biphenyl	.25 g	NEAT neat	10000 ppm
13496	Octadecane	.25 g	NEAT neat	10000 ppm
14182	Coumarin	.25 g	NEAT neat	10000 ppm
14183	n-Decane	.25 g	NEAT neat	10000 ppm
13659	PYRIDINE	.25 g	NEAT neat	10000 ppm
9435	1,4-Dimethylnaphthalene	.263 g	95 %	10000 ppm
14831	Pentachloroethane	.25 g	NEAT neat	10000 ppm
14801	acetone	25 ml	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-393504

Prepared By: Bis, Yolanta
Description: BN/TOXIC SOIL SPK.
Prep Date: 4/13/2023
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 1000 ppm
Final Volume: 4 ml
ApprovedBy: akmal
ApproveDate: 04/13/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15124	Base/Neutral Composite	2 ml	2000 ppm	1000 ppm
15125	Toxic Substances Mix #2	2 ml	2000 ppm	1000 ppm

Veritech Lot Number: V-393505

Prepared By: Bis, Yolanta
Description: CLP MIX(SOIL)(DANGER)
Prep Date: 4/13/2023
Expiration Date: 8/30/2023
Department: Organics
BatchNumber:
Concentration: 1000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 04/13/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-380193	8270 EXTRA MIX#1(2nd Source)(DANGER)	1 ml	10000 ppm	1000 ppm
V-380429	8270 EXTRA MIX#2A	1 ml	10000 ppm	1000 ppm
V-380075	Benzaldehyde Std (2nd source)	1 ml	10000 ppm	1000 ppm
15160	ACETONE	7 ml	Neat neat	

Veritech Lot Number: V-397751

Prepared By: User, Organics
Description: BAKED sodium sulphate
Prep Date: 6/20/2023
Expiration Date: 7/22/2023
Department: Organics
BatchNumber:
Concentration: 4000 g
Final Volume: 4000 g
ApprovedBy: akmal
ApproveDate: 06/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15342	sodium sulfate	4000 g	neat neat	neat neat

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-375729

Prepared By: Bis, Yolanta
Description: DFTPP STOCK STD.
Prep Date: 7/13/2022
Expiration Date: 7/13/2023
Department: Organics
BatchNumber:
Concentration: 2000 ppm
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 07/20/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
13602	DFTPP STD.	.01 g	NEAT neat	2000 ppm
13117	Methylene Chloride optima	5 ml	neat neat	

Veritech Lot Number: V-376959

Prepared By: Hamid, Akmal
Description: BNA Surrog.Std.
Prep Date: 7/28/2022
Expiration Date: 7/28/2023
Department: Organics
BatchNumber:
Concentration: 1000-2000 pp
Final Volume: 1000 ml
ApprovedBy: akmal
ApproveDate: 07/29/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
13086	2-Fluorobiphenyl	1 g	NEAT neat	1000 ppm
14141	p-Terphenyl-d14	1 g	NEAT neat	1000 ppm
12713	Phenol-2,3,4,5,6-d5	2 g	NEAT neat	2000 ppm
12019	2,4,6-Tribromophenol	2 g	NEAT neat	2000 ppm
12021	Nitrobenzene-d5	800 ul	NEAT neat	1000 ppm
12716	2-Fluorophenol	1.6 ml	NEAT neat	2000 ppm
14703	acetone	1000 ml	neat neat	

Veritech Lot Number: V-380073

Prepared By: Hamid, Akmal
Description: BNA-6 MIX
Prep Date: 9/15/2022
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
13494	Biphenyl	.05 g	NEAT neat	5000 ppm
14182	Coumarin	.05 g	NEAT neat	5000 ppm
13496	Octadecane	.05 g	NEAT neat	5000 ppm
12783	Pentachloroethane	.05 g	NEAT neat	5000 ppm
9435	1,4-Dimethylnaphthalene	.0518 g	95 %	5000 ppm
14183	n-Decane	.05 g	NEAT neat	5000 ppm
14765	dichloromethane	10 ml	neat neat	

Veritech Lot Number: V-380074

Prepared By: Hamid, Akmal
Description: BNA-7 MIX
Prep Date: 9/15/2022
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14808	2,3,4,6-Tetrachlorophenol	.05 g	NEAT neat	5000 ppm
13494	Biphenyl	.05 g	NEAT neat	5000 ppm
14182	Coumarin	.05 g	NEAT neat	5000 ppm
13496	Octadecane	.05 g	NEAT neat	5000 ppm
12783	Pentachloroethane	.05 g	NEAT neat	5000 ppm
9435	1,4-Dimethylnaphthalene	.0518 g	95 %	5000 ppm
14183	n-Decane	.05 g	NEAT neat	5000 ppm
14765	dichloromethane	10 ml	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-380075

Prepared By: Hamid, Akmal
Description: Benzaldehyde Std (2nd source)
Prep Date: 9/15/2022
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 25 ml
ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
9150	Benzaldehyde	.25 g	NEAT neat	10000 ppm
14801	acetone	25 ml	neat neat	

Veritech Lot Number: V-380076

Prepared By: Hamid, Akmal
Description: Benzaldehyde Std
Prep Date: 9/15/2022
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
9150	Benzaldehyde	.1 g	NEAT neat	10000 ppm
14765	dichloromethane	10 ml	neat neat	

Veritech Lot Number: V-380077

Prepared By: Hamid, Akmal
Description: BNA-Pest Mix(Danger)
Prep Date: 9/15/2022
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14187	4,4'-DDD	.05 g	NEAT neat	5000 ppm
13106	4,4' -DDE	.05 g	NEAT neat	5000 ppm
12842	4,4'-DDT	.05 g	NEAT neat	5000 ppm
14765	dichloromethane	10 ml	neat neat	

Veritech Lot Number: V-380192

Prepared By: Hamid, Akmal
Description: 8270 EXTRA MIX#1(1st Source)(DANG
Prep Date: 9/16/2022
Expiration Date: 8/30/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/16/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12844	Caprolactam	.1 g	NEAT neat	10000 ppm
12843	1,2,4,5-Tetrachlorobenzene	.1 g	NEAT neat	10000 ppm
14222	Atrazine	.1 g	NEAT neat	10000 ppm
11341	Acetophenone	.1 g	NEAT neat	10000 ppm
9149	Diphenyl Ether	.1 g	NEAT neat	10000 ppm
13821	1,4 Dioxane	.1 g	NEAT neat	10000 ppm
14802	Dichloromethane	10 ml	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-380193

Prepared By: Hamid, Akmal
Description: 8270 EXTRA MIX#1(2nd Source)(DAN
Prep Date: 9/16/2022
Expiration Date: 8/30/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 09/16/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12844	Caprolactam	.5 g	NEAT neat	10000 ppm
12843	1,2,4,5-Tetrachlorobenzene	.5 g	NEAT neat	10000 ppm
14222	Atrazine	.5 g	NEAT neat	10000 ppm
11341	Acetophenone	.5 g	NEAT neat	10000 ppm
9149	Diphenyl Ether	.5 g	NEAT neat	10000 ppm
14204	1- Methylnaphthalene	.5 g	NEAT neat	10000 ppm
13821	1,4 Dioxane	.5 g	NEAT neat	10000 ppm
14800	ACETONE	50 ml	neat neat	

Veritech Lot Number: V-392947

Prepared By: Bis, Yolanta
Description: Pyridine Stock Std.
Prep Date: 4/5/2023
Expiration Date: 4/5/2024
Department: Organics
BatchNumber:
Concentration: 10,000 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 04/11/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12769	Pyridine	10 ul	neat neat	10000 ppm
14864	Methylene Chloride Optima-4L	990 ul	NEAT neat	

Veritech Lot Number: V-394768

Prepared By: Hamid, Akmal
Description: BNA Internal Std.
Prep Date: 5/3/2023
Expiration Date: 5/3/2024
Department: Organics
BatchNumber:
Concentration: 2000 ppm
Final Volume: 500 ml
ApprovedBy: akmal
ApproveDate: 05/03/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15084	Naphthalene-D8	1 g	NEAT neat	2000 ppm
15086	Phenanthrene-d10	1 g	NEAT neat	2000 ppm
15087	Chrysene-d12	1 g	NEAT neat	2000 ppm
15088	Perylene-d12	1 g	NEAT neat	2000 ppm
13897	Acenaphthene-d10	1 g	NEAT neat	2000 ppm
12507	1,4-Dichlorobenzene-D4	1 g	NEAT neat	2000 ppm
15082	1,4 Dioxane-D8	1 g	NEAT neat	2000 ppm
14864	Methylene Chloride Optima-4L	500 ml	NEAT neat	

Veritech Lot Number: V-395403

Prepared By: Bis, Yolanta
Description: DFTPP Mix
Prep Date: 5/15/2023
Expiration Date: 7/13/2023
Department: Organics
BatchNumber:
Concentration: 50 ppm
Final Volume: 1.5 ml
ApprovedBy: akmal
ApproveDate: 05/17/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-375729	DFTPP STOCK STD.	25 ul	2000 ppm	50 ppm
15268	DDT - Endrin Mix	200 ul	500 ppm	100 ppm
14759	Phenolics Mix	50 ul	2000 ppm	100 ppm
14598	EPA TCL Benzidines Mix	50	2000 ppm	100 ppm
14864	Methylene Chloride Optima-4L	675 ul	NEAT neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-397589

Prepared By: Bis, Yolanta
Description: BNA STOCK Std.A (DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber:
Concentration: 250 ppm
Final Volume: 600 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14569	MEGAMIX	150 ul	1000 ppm	250 ppm
14570	BENZOIC ACID	75 ul	2000 ppm	250 ppm
15050	EPA TCL Benzidines Mix	75 ul	2000 ppm	250 ppm
V-376959	BNA Surrog.Std.	75 ul	1000-2000 pp	125-250 pp
V-380077	BNA-Pest Mix(Danger)	30 ul	5000 ppm	250 ppm
V-380073	BNA-6 MIX	30 ul	5000 ppm	250 ppm
14765	dichloromethane	165 ul	neat neat	

Veritech Lot Number: V-397590

Prepared By: Bis, Yolanta
Description: BNA STOCK Std.(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber:
Concentration: 200 ppm
Final Volume: 500 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397589	BNA STOCK Std.A (DANGER)	400 ul	250 ppm	250 ppm
V-380192	8270 EXTRA MIX#1(1st Source)(DANGER)	10 ul	10000 ppm	250 ppm
V-380076	Benzaldehyde Std	10 ul	10000 ppm	250 ppm
14765	dichloromethane	80 ul	neat neat	

Veritech Lot Number: V-397591

Prepared By: Bis, Yolanta
Description: BNA 10 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 10 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397590	BNA STOCK Std.(DANGER)	5 ul	200 ppm	10 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14765	dichloromethane	93 ul	neat neat	

Veritech Lot Number: V-397592

Prepared By: Bis, Yolanta
Description: BNA 20 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 20 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397590	BNA STOCK Std.(DANGER)	10 ul	200 ppm	20 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14765	dichloromethane	88 ul	neat neat	

Veritech Lot Number: V-397593

Prepared By: Bis, Yolanta
Description: BNA 50 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 50 ppm
Final Volume: 600 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397590	BNA STOCK Std.(DANGER)	150 ul	200 ppm	50 ppm
V-394768	BNA Internal Std.	12 ul	2000 ppm	40 ppm
14765	dichloromethane	438 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-397594

Prepared By: Bis, Yolanta
Description: BNA 80 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 80 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397590	BNA STOCK Std.(DANGER)	40 ul	200 ppm	80 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14765	dichloromethane	58 ul	neat neat	

Veritech Lot Number: V-397595

Prepared By: Bis, Yolanta
Description: BNA 120 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 120 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397590	BNA STOCK Std.(DANGER)	60 ul	200 ppm	120 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14765	dichloromethane	38 ul	neat neat	

Veritech Lot Number: V-397596

Prepared By: Bis, Yolanta
Description: BNA 160 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 160 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397590	BNA STOCK Std.(DANGER)	80 ul	200 ppm	160 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14765	dichloromethane	18 ul	neat neat	

Veritech Lot Number: V-397597

Prepared By: Bis, Yolanta
Description: BNA 196 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 196 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397590	BNA STOCK Std.(DANGER)	98 ul	200 ppm	196 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14765	dichloromethane	0	neat neat	

Veritech Lot Number: V-397598

Prepared By: Bis, Yolanta
Description: BNA 50 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 50 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397590	BNA STOCK Std.(DANGER)	25 ul	200 ppm	50 ppm
14765	dichloromethane	75 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-397599

Prepared By: Bis, Yolanta
Description: BNA 2 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 2 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397598	BNA 50 ppm curve(DANGER)	4 ul	50 ppm	2 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14765	dichloromethane	94 ul	neat neat	

Veritech Lot Number: V-397600

Prepared By: Bis, Yolanta
Description: BNA 0.5 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 0.5 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397598	BNA 50 ppm curve(DANGER)	1 ul	50 ppm	2 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14765	dichloromethane	97 ul	neat neat	

Veritech Lot Number: V-397601

Prepared By: Bis, Yolanta
Description: BNA STOCK Std.B(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber:
Concentration: 250 ppm
Final Volume: 600 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14446	Polynuclear Aromatic Hydrocarbons Mix.	75 ul	2000 ppm	250 ppm
15050	EPA TCL Benzidines Mix	75 ul	2000 ppm	250 ppm
14140	EPA TCL Hazardous subs. Mix	75 ul	2000 ppm	250 ppm
15169	EPA TCL BASE-NEUTRALS Mix	75 ul	2000 ppm	250 ppm
V-376959	BNA Surrog.Std.	75 ul	1000-2000 pp	125-250 pp
V-392947	Pyridine Stock Std.	15 ul	10,000 ppm	250 ppm
V-380074	BNA-7 MIX	30 ul	5000 ppm	250 ppm
14759	Phenolics Mix	75 ul	2000 ppm	250 ppm
14765	dichloromethane	180 ul	neat neat	

Veritech Lot Number: V-397602

Prepared By: Bis, Yolanta
Description: BNA ICV CAL@50ppm(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber:
Concentration: 50 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397601	BNA STOCK Std.B(DANGER)	40 ul	250 ppm	50 ppm
v-380193	8270 EXTRA MIX#1(2nd Source)(DANGER)	1 ul	10000 ppm	50 ppm
v-380075	Benzaldehyde Std (2nd source)	1 ul	10000 ppm	50 ppm
V-394768	BNA Internal Std.	4 ul	2000 ppm	40 ppm
14765	dichloromethane	154 ul	neat neat	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 9149

Description: Diphenyl Ether

ApprovedBy: akmal
ApproveDate: 12/15/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	240834-5g	MKBH5698V	12/12/14	12/31/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 9150

Description: Benzaldehyde

ApprovedBy: akmal
ApproveDate: 12/15/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	B1334-5g	MKBP5021V	12/12/14	12/31/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 9435

Description: 1,4-Dimethylnaphthalene

ApprovedBy: akmal
ApproveDate: 04/24/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	D170305-5G	STBD6188V	04/24/15	04/24/25	Hamid, Akmal	5	5G	95	%

Veritech Control/Receipt Number: 11341

Description: Acetophenone

ApprovedBy: akmal
ApproveDate: 12/26/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	42163-1ML-F	BCBV0864	12/20/17	12/20/25	Hamid, Akmal	1	1ML	NEAT	NEAT

Veritech Control/Receipt Number: 12019

Description: 2,4,6-Tribromophenol

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma- Aldrich	137715-5G	S55013V	09/28/18	07/08/29	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12021

Description: Nitrobenzene-d5

ApprovedBy: akmal
ApproveDate: 10/01/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma- Aldrich	151955-5G	MBBC0000V	10/01/18	07/08/29	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12507

Description: 1,4-Dichlorobenzene-D4

ApprovedBy: akmal
ApproveDate: 05/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL	DLM-268-0	PR-18488/08247CB1	05/20/19	06/07/27	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 12713

Description: Phenol-2,3,4,5,6-d5

ApprovedBy: akmal
ApproveDate: 08/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	425370-5G	MBBC4769	08/08/19	05/21/24	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12716

Description: 2-Fluorophenol

ApprovedBy: akmal
ApproveDate: 08/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	F12804-10G	STBH4989	08/08/19	05/21/28	Hamid, Akmal	1	10G	NEAT	NEAT

Veritech Control/Receipt Number: 12769

Description: Pyridine

ApprovedBy: janee
ApproveDate: 09/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Fisher	P368-1	190224	09/20/19	09/19/24	Wonge, Janee	1	1 L	neat	neat

Veritech Control/Receipt Number: 12783

Description: Pentachloroethane

ApprovedBy: akmal
ApproveDate: 09/24/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service Inc	N-12829-1G	8728100	09/24/19	12/31/23	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 12842

Description: 4,4'-DDT

ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	31041-100MG	BCBW0671	10/18/19	11/30/23	Hamid, Akmal	3	100M	NEAT	NEAT

Veritech Control/Receipt Number: 12843

Description: 1,2,4,5-Tetrachlorobenzene

ApprovedBy: akmal
ApproveDate: 03/04/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	131857-5G	MKCG5992	10/17/19	07/23/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12844

Description: Caprolactam

ApprovedBy: akmal
ApproveDate: 03/04/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	C2204-5G	MKCG1442	10/17/19	07/23/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 13086

Description: 2-Fluorobiphenyl

ApprovedBy: akmal
ApproveDate: 03/03/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	102741-10G	MKCK0527	03/03/20	08/31/30	Hamid, Akmal	1	10G	NEAT	NEAT

Veritech Control/Receipt Number: 13106

Description: 4,4' -DDE

ApprovedBy: akmal
ApproveDate: 03/10/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	RPN-10875-1G	9710700	03/10/20	02/28/25	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 13117

Description: Methylene Chloride optima

ApprovedBy: akmal
ApproveDate: 04/01/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Fisher	D1514	197501	03/13/20	01/31/25	Lopez, Jose	4	4L	neat	neat

Veritech Control/Receipt Number: 13494

Description: Biphenyl

ApprovedBy: akmal
ApproveDate: 09/11/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	35800-1G	BCBZ9522	09/11/20	12/31/23	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 13496

Description: Octadecane

ApprovedBy: akmal
ApproveDate: 09/11/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	O652-25G	MKCG6046	09/11/20	09/11/30	Hamid, Akmal	1	25G	NEAT	NEAT

Veritech Control/Receipt Number: 13602

Description: DFTPP STD.

ApprovedBy: akmal
ApproveDate: 11/13/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	442543	LRAC7179	11/12/20	07/23/23	Hamid, Akmal	1	100M	NEAT	NEAT

Veritech Control/Receipt Number: 13821

Description: 1,4 Dioxane

ApprovedBy: akmal
ApproveDate: 03/22/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-10220-1G	11271700	03/19/21	08/30/23	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 13897

Description: Acenaphthene-d10

ApprovedBy: akmal
ApproveDate: 04/28/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL	DLM-108-0	PR-30913	04/23/21	08/16/29	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14140

Description: EPA TCL Hazardous subs. Mix

ApprovedBy: akmal
ApproveDate: 08/16/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	47990-U	LRAC9004	08/16/21	02/28/24	Hamid, Akmal	1	1ML	2000	PPM

Veritech Control/Receipt Number: 14141

Description: p-Terphenyl-d14

ApprovedBy: akmal
ApproveDate: 08/16/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	364630-500MG	MBBD0055	08/16/21	08/16/30	Hamid, Akmal	5	500M	NEAT	NEAT

Veritech Control/Receipt Number: 14182

Description: Coumarin

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-11508	12354100	09/14/21	09/30/29	Hamid, Akmal	2	IG	NEAT	NEAT

Veritech Control/Receipt Number: 14183

Description: n-Decane

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	n-12526-1G	12277000	09/14/21	09/30/25	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14187

Description: 4,4'-DDD

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-10874-250MG	12359100	09/14/21	05/31/24	Hamid, Akmal	4	250M	NEAT	NEAT

Veritech Control/Receipt Number: 14204

Description: 1- Methylnaphthalene

ApprovedBy: Akmal
ApproveDate: 09/28/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	45795-250MG	BCCC3346	09/28/21	01/31/25	Hamid, Akmal	5	250M	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14222

Description: Atrazine

ApprovedBy: akmal
ApproveDate: 10/06/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	45330	BCBZ3835	09/30/21	08/31/23	Hamid, Akmal	2	250M	NEAT	NEAT

Veritech Control/Receipt Number: 14446

Description: Polynuclear Aromatic Hydrocarbons Mix.

ApprovedBy: akmal
ApproveDate: 02/11/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	CRM48905	LRAD0869	02/07/22	11/30/24	Hamid, Akmal	1	1ML	2000	PPM

Veritech Control/Receipt Number: 14569

Description: MEGAMIX

ApprovedBy: akmal
ApproveDate: 05/06/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
RESTEK	31850	A0182362	05/02/22	09/30/23	Hamid, Akmal	2	1ML	1000	PPM

Veritech Control/Receipt Number: 14570

Description: BENZOIC ACID

ApprovedBy: akmal
ApproveDate: 05/06/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
RESTEK	31879	A0176303	05/02/22	09/30/25	Hamid, Akmal	1	ML	2000	PPM

Veritech Control/Receipt Number: 14598

Description: EPA TCL Benzidines Mix

ApprovedBy: akmal
ApproveDate: 05/23/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Millipore Sigma	48906	LRAD1455	05/20/22	01/31/25	Hamid, Akmal	1	1ML	2000	PPM

Veritech Control/Receipt Number: 14703

Description: acetone

ApprovedBy: akmal
ApproveDate: 07/07/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9254-03	22D1162003	06/30/22	03/19/25	Lopez, Jose	48	4L	neat	neat

Veritech Control/Receipt Number: 14759

Description: Phenolics Mix

ApprovedBy: akmal
ApproveDate: 07/28/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Spex Certiprep	CLPS-A	AA191210005	07/28/22	07/25/25	Hamid, Akmal	2	1ML	2000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14765

Description: dichloromethane

ApprovedBy: akmal
ApproveDate: 08/16/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco/EMD	DX0831	62161	08/02/22	08/01/27	Lopez, Jose	100	4L	neat	neat

Veritech Control/Receipt Number: 14800

Description: ACETONE

ApprovedBy: akmal
ApproveDate: 08/31/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
JT.Baker	9254-03	22E1562001	08/30/22	05/02/25	Lopez, Jose	16	4L	neat	neat

Veritech Control/Receipt Number: 14801

Description: acetone

ApprovedBy: akmal
ApproveDate: 08/31/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9254-03	22D1162003	08/30/22	03/19/25	Lopez, Jose	32	4L	neat	neat

Veritech Control/Receipt Number: 14802

Description: Dichloromethane

ApprovedBy: akmal
ApproveDate: 09/09/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco/EMD	DX0831-1	62231	08/31/22	08/30/27	Lopez, Jose	100	4L	neat	neat

Veritech Control/Receipt Number: 14808

Description: 2,3,4,6-Tetrachlorophenol

ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	442282	LRAC9464	09/15/22	04/30/25	Hamid, Akmal	5	100M	NEAT	NEAT

Veritech Control/Receipt Number: 14864

Description: Methylene Chloride Optima-4L

ApprovedBy: akmal
ApproveDate: 09/29/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Fisher Chemical	D151-4	223493	09/28/22	08/31/27	Hamid, Akmal	4	4L	NEAT	NEAT

Veritech Control/Receipt Number: 15050

Description: EPA TCL Benzidines Mix

ApprovedBy: akmal
ApproveDate: 01/20/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco	48906	LRAD1455	01/20/23	01/31/25	Hamid, Akmal	2	1ML	2000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15082

Description: 1,4-Dioxane-D8

ApprovedBy: akmal
ApproveDate: 06/15/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL, Inc.	DLM-28-0	I-26030A	02/06/23	02/06/26	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 15084

Description: Naphthalene-D8

ApprovedBy: akmal
ApproveDate: 02/07/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL INC,	DLM-365-0	PR-30164/121418NP	02/06/23	01/04/29	Hamid, Akmal	1	IG	NEAT	NEAT

Veritech Control/Receipt Number: 15086

Description: Phenanthrene-d10

ApprovedBy: akmal
ApproveDate: 02/07/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL INC,	DLM-371-0	PR-29119	02/06/23	11/10/27	Hamid, Akmal	1	IG	NEAT	NEAT

Veritech Control/Receipt Number: 15087

Description: Chrysene-d12

ApprovedBy: akmal
ApproveDate: 05/02/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL INC,	DLM-261-0	PR33506	02/06/23	11/30/32	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 15088

Description: Perylene-d12

ApprovedBy: akmal
ApproveDate: 02/07/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL INC,	DLM-366-0	PR-31716	02/06/23	05/18/30	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 15169

Description: EPA TCL BASE-NEUTRALS Mix

ApprovedBy: akmal
ApproveDate: 03/23/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SIGMA ALDRICH	47991-U	LRAD4201	03/23/23	02/28/26	Hamid, Akmal	2	1ML	2000	PPM

Veritech Control/Receipt Number: 15268

Description: DDT - Endrin Mix

ApprovedBy: akmal
ApproveDate: 05/11/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma Aldrich	48282	LRAD4476	05/10/23	03/31/26	Hamid, Akmal	3	1ML	500	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 9149

Description: Diphenyl Ether

ApprovedBy: akmal
ApproveDate: 12/15/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	240834-5g	MKBH5698V	12/12/14	12/31/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 9150

Description: Benzaldehyde

ApprovedBy: akmal
ApproveDate: 12/15/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	B1334-5g	MKBP5021V	12/12/14	12/31/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 9435

Description: 1,4-Dimethylnaphthalene

ApprovedBy: akmal
ApproveDate: 04/24/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	D170305-5G	STBD6188V	04/24/15	04/24/25	Hamid, Akmal	5	5G	95	%

Veritech Control/Receipt Number: 11341

Description: Acetophenone

ApprovedBy: akmal
ApproveDate: 12/26/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	42163-1ML-F	BCBV0864	12/20/17	12/20/25	Hamid, Akmal	1	1ML	NEAT	NEAT

Veritech Control/Receipt Number: 12019

Description: 2,4,6-Tribromophenol

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma- Aldrich	137715-5G	S55013V	09/28/18	07/08/29	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12021

Description: Nitrobenzene-d5

ApprovedBy: akmal
ApproveDate: 10/01/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma- Aldrich	151955-5G	MBBC0000V	10/01/18	07/08/29	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12713

Description: Phenol-2,3,4,5,6-d5

ApprovedBy: akmal
ApproveDate: 08/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	425370-5G	MBBC4769	08/08/19	05/21/24	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 12716

Description: 2-Fluorophenol

ApprovedBy: akmal
ApproveDate: 08/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	F12804-10G	STBH4989	08/08/19	05/21/28	Hamid, Akmal	1	10G	NEAT	NEAT

Veritech Control/Receipt Number: 12843

Description: 1,2,4,5-Tetrachlorobenzene

ApprovedBy: akmal
ApproveDate: 03/04/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	131857-5G	MKCG5992	10/17/19	07/23/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12844

Description: Caprolactam

ApprovedBy: akmal
ApproveDate: 03/04/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	C2204-5G	MKCG1442	10/17/19	07/23/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 13086

Description: 2-Fluorobiphenyl

ApprovedBy: akmal
ApproveDate: 03/03/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	102741-10G	MKCK0527	03/03/20	08/31/30	Hamid, Akmal	1	10G	NEAT	NEAT

Veritech Control/Receipt Number: 13496

Description: Octadecane

ApprovedBy: akmal
ApproveDate: 09/11/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	O652-25G	MKCG6046	09/11/20	09/11/30	Hamid, Akmal	1	25G	NEAT	NEAT

Veritech Control/Receipt Number: 13659

Description: PYRIDINE

ApprovedBy: jessica
ApproveDate: 12/10/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Fisher	P368-1	203790	12/10/20	12/09/30	Patel, Jessica	1	1 L	NEAT	NEAT

Veritech Control/Receipt Number: 13821

Description: 1,4 Dioxane

ApprovedBy: akmal
ApproveDate: 03/22/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-10220-1G	11271700	03/19/21	08/30/23	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14141

Description: p-Terphenyl-d14

ApprovedBy: akmal
ApproveDate: 08/16/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	364630-500MG	MBBD0055	08/16/21	08/16/30	Hamid, Akmal	5	500M	NEAT	NEAT

Veritech Control/Receipt Number: 14182

Description: Coumarin

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-11508	12354100	09/14/21	09/30/29	Hamid, Akmal	2	IG	NEAT	NEAT

Veritech Control/Receipt Number: 14183

Description: n-Decane

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	n-12526-1G	12277000	09/14/21	09/30/25	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14184

Description: Carbazole

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-11403-1G	12358900	09/14/21	10/31/25	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14204

Description: 1- Methylnaphthalene

ApprovedBy: Akmal
ApproveDate: 09/28/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	45795-250MG	BCCC3346	09/28/21	01/31/25	Hamid, Akmal	5	250M	NEAT	NEAT

Veritech Control/Receipt Number: 14222

Description: Atrazine

ApprovedBy: akmal
ApproveDate: 10/06/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	45330	BCBZ3835	09/30/21	08/31/23	Hamid, Akmal	2	250M	NEAT	NEAT

Veritech Control/Receipt Number: 14703

Description: acetone

ApprovedBy: akmal
ApproveDate: 07/07/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9254-03	22D1162003	06/30/22	03/19/25	Lopez, Jose	48	4L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14800

Description: ACETONE

ApprovedBy: akmal
ApproveDate: 08/31/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
JT.Baker	9254-03	22E1562001	08/30/22	05/02/25	Lopez, Jose	16	4L	neat	neat

Veritech Control/Receipt Number: 14801

Description: acetone

ApprovedBy: akmal
ApproveDate: 08/31/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9254-03	22D1162003	08/30/22	03/19/25	Lopez, Jose	32	4L	neat	neat

Veritech Control/Receipt Number: 14821

Description: Biphenyl

ApprovedBy: akmal
ApproveDate: 09/16/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	35800-1G	BCCF1061	09/16/22	10/31/25	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14831

Description: Pentachloroethane

ApprovedBy: akmal
ApproveDate: 09/19/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem-Service	N-12829-250MG	12860800	09/19/22	12/31/23	Hamid, Akmal	2	250M	NEAT	NEAT

Veritech Control/Receipt Number: 15124

Description: Base/Neutral Composite

ApprovedBy: jean
ApproveDate: 02/23/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ACCUSTANDAR	CLP-HC-BN-PAK	222041298-01	02/23/23	02/20/24	Revolus, Jean	20	1ml	2000	PPM

Veritech Control/Receipt Number: 15125

Description: Toxic Substances Mix #2

ApprovedBy: jean
ApproveDate: 02/23/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ACCUSTANDAR	Z-014E-PAK	222041218	02/23/23	05/13/24	Revolus, Jean	4	1ml	2000	PPM

Veritech Control/Receipt Number: 15160

Description: ACETONE

ApprovedBy: akmal
ApproveDate: 03/20/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
TEDIA	AA1111	22070110	03/16/23	03/15/28	Lopez, Jose	40	4L	Neat	Neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15342

Description
sodium sulfate

ApprovedBy: akmal
ApproveDate: 06/07/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Allan Corp.	6399	208404	06/05/23	06/04/28	Lopez, Jose	6	100L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15283

Description: Acid Composite Mixture

ApprovedBy: jean
ApproveDate: 05/17/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ACCUSTANDAR	CLP-HC-A-R-PAK	222111297	05/17/23	11/30/25	Revolus, Jean	20	1ml	2000	PPM

Veritech Control/Receipt Number: 15356

Description: Acetone

ApprovedBy: akmal
ApproveDate: 06/12/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
TEDIA	AA1111	22070110	06/09/23	07/23/24	Cajuste, Pierre	80	4 L	Neat	Neat

Veritech Control/Receipt Number: 15357

Description: Dichloromethane

ApprovedBy: akmal
ApproveDate: 06/13/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco/EMD	DX0831	63083	06/12/23	06/11/28	Lopez, Jose	100	4L	neat	neat

Metal Data

Metal Data
Sample Data

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-001	% Solid:	91	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-1 10-14	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.88	ND	1	0.5	100	06/15/23	1078601	523ANEW	24	MS	MS3_7700SWA
7440-38-2	Arsenic	0.22	4.8	1	0.5	100	06/15/23	1078601	523ANEW	24	MS	MS3_7700SWA
7440-41-7	Beryllium	0.22	ND	1	0.5	100	06/15/23	1078601	523ANEW	24	MS	MS3_7700SWA
7440-43-9	Cadmium	0.44	ND	1	0.5	100	06/15/23	1078601	523ANEW	24	MS	MS3_7700SWA
7440-47-3	Chromium	0.44	7.8	1	0.5	100	06/15/23	1078601	523ANEW	24	MS	MS3_7700SWA
7440-50-8	Copper	2.2	28	1	0.5	100	06/15/23	1078601	523ANEW	24	MS	MS3_7700SWA
7439-92-1	Lead	0.44	3.4	1	0.5	100	06/15/23	1078601	523ANEW	24	MS	MS3_7700SWA
7440-02-0	Nickel	0.66	12	1	0.5	100	06/15/23	1078601	523ANEW	24	MS	MS3_7700SWA
7782-49-2	Selenium	2.2	ND	1	0.5	100	06/15/23	1078601	523ANEW	24	MS	MS3_7700SWA
7440-22-4	Silver	0.22	ND	1	0.5	100	06/15/23	1078601	523ANEW	24	MS	MS3_7700SWA
7440-28-0	Thallium	0.44	ND	1	0.5	100	06/15/23	1078601	523ANEW	24	MS	MS3_7700SWA
7440-66-6	Zinc	4.4	36	1	0.5	100	06/15/23	1078601	523ANEW	24	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-001	% Solid:	91	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-1 10-14	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.092	ND	1	0.15	25	06/15/23	107860	H29848S	13	CV	HGCV4A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-002	% Solid:	89	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-3 0-5	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.90	ND	1	0.5	100	06/15/23	1078601	523ANEW	46	MS	MS3_7700SWA
7440-38-2	Arsenic	0.22	4.9	1	0.5	100	06/15/23	1078601	523ANEW	46	MS	MS3_7700SWA
7440-41-7	Beryllium	0.22	0.23	1	0.5	100	06/15/23	1078601	523ANEW	46	MS	MS3_7700SWA
7440-43-9	Cadmium	0.45	ND	1	0.5	100	06/15/23	1078601	523ANEW	46	MS	MS3_7700SWA
7440-47-3	Chromium	0.45	6.2	1	0.5	100	06/15/23	1078601	523ANEW	46	MS	MS3_7700SWA
7440-50-8	Copper	2.2	18	1	0.5	100	06/15/23	1078601	523ANEW	46	MS	MS3_7700SWA
7439-92-1	Lead	0.45	35	1	0.5	100	06/15/23	1078601	523ANEW	46	MS	MS3_7700SWA
7440-02-0	Nickel	0.67	8.8	1	0.5	100	06/15/23	1078601	523ANEW	46	MS	MS3_7700SWA
7782-49-2	Selenium	2.2	ND	1	0.5	100	06/15/23	1078601	523ANEW	46	MS	MS3_7700SWA
7440-22-4	Silver	0.22	ND	1	0.5	100	06/15/23	1078601	523ANEW	46	MS	MS3_7700SWA
7440-28-0	Thallium	0.45	ND	1	0.5	100	06/15/23	1078601	523ANEW	46	MS	MS3_7700SWA
7440-66-6	Zinc	4.5	63	1	0.5	100	06/15/23	1078601	523ANEW	46	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-002	% Solid:	89	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-3 0-5	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.094	0.19	1	0.15	25	06/15/23	107860	H29848S	23	CV	HGCV4A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-003	% Solid:	84	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-4 10-12.5	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.95	ND	1	0.5	100	06/15/23	1078601	523ANEW	47	MS	MS3_7700SWA
7440-38-2	Arsenic	0.24	3.3	1	0.5	100	06/15/23	1078601	523ANEW	47	MS	MS3_7700SWA
7440-41-7	Beryllium	0.24	0.28	1	0.5	100	06/15/23	1078601	523ANEW	47	MS	MS3_7700SWA
7440-43-9	Cadmium	0.48	ND	1	0.5	100	06/15/23	1078601	523ANEW	47	MS	MS3_7700SWA
7440-47-3	Chromium	0.48	7.3	1	0.5	100	06/15/23	1078601	523ANEW	47	MS	MS3_7700SWA
7440-50-8	Copper	2.4	17	1	0.5	100	06/15/23	1078601	523ANEW	47	MS	MS3_7700SWA
7439-92-1	Lead	0.48	6.3	1	0.5	100	06/15/23	1078601	523ANEW	47	MS	MS3_7700SWA
7440-02-0	Nickel	0.71	9.4	1	0.5	100	06/15/23	1078601	523ANEW	47	MS	MS3_7700SWA
7782-49-2	Selenium	2.4	ND	1	0.5	100	06/15/23	1078601	523ANEW	47	MS	MS3_7700SWA
7440-22-4	Silver	0.24	ND	1	0.5	100	06/15/23	1078601	523ANEW	47	MS	MS3_7700SWA
7440-28-0	Thallium	0.48	ND	1	0.5	100	06/15/23	1078601	523ANEW	47	MS	MS3_7700SWA
7440-66-6	Zinc	4.8	29	1	0.5	100	06/15/23	1078601	523ANEW	47	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-003	% Solid:	84	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-4 10-12.5	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.099	ND	1	0.15	25	06/15/23	107860	H29848S	24	CV	HGCV4A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-004	% Solid:	80	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-5 5-10	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	1.0	ND	1	0.5	100	06/15/23	1078601	523ANEW	48	MS	MS3_7700SWA
7440-38-2	Arsenic	0.25	11	1	0.5	100	06/15/23	1078601	523ANEW	48	MS	MS3_7700SWA
7440-41-7	Beryllium	0.25	0.38	1	0.5	100	06/15/23	1078601	523ANEW	48	MS	MS3_7700SWA
7440-43-9	Cadmium	0.50	ND	1	0.5	100	06/15/23	1078601	523ANEW	48	MS	MS3_7700SWA
7440-47-3	Chromium	0.50	5.8	1	0.5	100	06/15/23	1078601	523ANEW	48	MS	MS3_7700SWA
7440-50-8	Copper	2.5	36	1	0.5	100	06/15/23	1078601	523ANEW	48	MS	MS3_7700SWA
7439-92-1	Lead	0.50	130	1	0.5	100	06/15/23	1078601	523ANEW	48	MS	MS3_7700SWA
7440-02-0	Nickel	0.75	9.7	1	0.5	100	06/15/23	1078601	523ANEW	48	MS	MS3_7700SWA
7782-49-2	Selenium	2.5	ND	1	0.5	100	06/15/23	1078601	523ANEW	48	MS	MS3_7700SWA
7440-22-4	Silver	0.25	ND	1	0.5	100	06/15/23	1078601	523ANEW	48	MS	MS3_7700SWA
7440-28-0	Thallium	0.50	ND	1	0.5	100	06/15/23	1078601	523ANEW	48	MS	MS3_7700SWA
7440-66-6	Zinc	5.0	85	1	0.5	100	06/15/23	1078601	523ANEW	48	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-004	% Solid:	80	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-5 5-10	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.10	0.13	1	0.15	25	06/15/23	107860	H29848S	25	CV	HGCV4A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-005	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-6 10-11	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.96	ND	1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA
7440-38-2	Arsenic	0.24	4.6	1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA
7440-41-7	Beryllium	0.24	0.32	1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA
7440-43-9	Cadmium	0.48	ND	1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA
7440-47-3	Chromium	0.48	8.3	1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA
7440-50-8	Copper	2.4	20	1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA
7439-92-1	Lead	0.48	5.5	1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA
7440-02-0	Nickel	0.72	12	1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA
7782-49-2	Selenium	2.4	2.6	1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA
7440-22-4	Silver	0.24	ND	1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA
7440-28-0	Thallium	0.48	ND	1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA
7440-66-6	Zinc	4.8	34	1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-005	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-6 10-11	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.10	ND	1	0.15	25	06/15/23	107860	H29848S	26	CV	HGCV4A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-006	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-7 0.5-1	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.96	ND	1	0.5	100	06/15/23	1078601	523ANEW	50	MS	MS3_7700SWA
7440-38-2	Arsenic	0.24	9.9	1	0.5	100	06/15/23	1078601	523ANEW	50	MS	MS3_7700SWA
7440-41-7	Beryllium	0.24	0.74	1	0.5	100	06/15/23	1078601	523ANEW	50	MS	MS3_7700SWA
7440-43-9	Cadmium	0.48	ND	1	0.5	100	06/15/23	1078601	523ANEW	50	MS	MS3_7700SWA
7440-47-3	Chromium	0.48	9.2	1	0.5	100	06/15/23	1078601	523ANEW	50	MS	MS3_7700SWA
7440-50-8	Copper	2.4	53	1	0.5	100	06/15/23	1078601	523ANEW	50	MS	MS3_7700SWA
7439-92-1	Lead	0.48	42	1	0.5	100	06/15/23	1078601	523ANEW	50	MS	MS3_7700SWA
7440-02-0	Nickel	0.72	14	1	0.5	100	06/15/23	1078601	523ANEW	50	MS	MS3_7700SWA
7782-49-2	Selenium	2.4	2.6	1	0.5	100	06/15/23	1078601	523ANEW	50	MS	MS3_7700SWA
7440-22-4	Silver	0.24	ND	1	0.5	100	06/15/23	1078601	523ANEW	50	MS	MS3_7700SWA
7440-28-0	Thallium	0.48	ND	1	0.5	100	06/15/23	1078601	523ANEW	50	MS	MS3_7700SWA
7440-66-6	Zinc	4.8	59	1	0.5	100	06/15/23	1078601	523ANEW	50	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-006	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-7 0.5-1	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.10	0.12	1	0.15	25	06/15/23	107860	H29848S	27	CV	HGCV4A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-007	% Solid:	91	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-8 0-2	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.88	ND	1	0.5	100	06/15/23	107860	1523ANEW	51	MS	MS3_7700SWA
7440-38-2	Arsenic	0.22	6.5	1	0.5	100	06/15/23	107860	1523ANEW	51	MS	MS3_7700SWA
7440-41-7	Beryllium	0.22	0.30	1	0.5	100	06/15/23	107860	1523ANEW	51	MS	MS3_7700SWA
7440-43-9	Cadmium	0.44	ND	1	0.5	100	06/15/23	107860	1523ANEW	51	MS	MS3_7700SWA
7440-47-3	Chromium	0.44	8.8	1	0.5	100	06/15/23	107860	1523ANEW	51	MS	MS3_7700SWA
7440-50-8	Copper	2.2	35	1	0.5	100	06/15/23	107860	1523ANEW	51	MS	MS3_7700SWA
7439-92-1	Lead	0.44	90	1	0.5	100	06/15/23	107860	1523ANEW	51	MS	MS3_7700SWA
7440-02-0	Nickel	0.66	12	1	0.5	100	06/15/23	107860	1523ANEW	51	MS	MS3_7700SWA
7782-49-2	Selenium	2.2	ND	1	0.5	100	06/15/23	107860	1523ANEW	51	MS	MS3_7700SWA
7440-22-4	Silver	0.22	ND	1	0.5	100	06/15/23	107860	1523ANEW	51	MS	MS3_7700SWA
7440-28-0	Thallium	0.44	ND	1	0.5	100	06/15/23	107860	1523ANEW	51	MS	MS3_7700SWA
7440-66-6	Zinc	4.4	74	1	0.5	100	06/15/23	107860	1523ANEW	51	MS	MS3_7700SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-007	% Solid:	91	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-8 0-2	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.092	0.29	1	0.15	25	06/15/23	107860	H29848S	28	CV	HGCV4A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-008	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-9 10-12	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.96	ND	1	0.5	100	06/15/23	1078601	523ANEW	52	MS	MS3_7700SWA
7440-38-2	Arsenic	0.24	3.7	1	0.5	100	06/15/23	1078601	523ANEW	52	MS	MS3_7700SWA
7440-41-7	Beryllium	0.24	0.24	1	0.5	100	06/15/23	1078601	523ANEW	52	MS	MS3_7700SWA
7440-43-9	Cadmium	0.48	ND	1	0.5	100	06/15/23	1078601	523ANEW	52	MS	MS3_7700SWA
7440-47-3	Chromium	0.48	7.0	1	0.5	100	06/15/23	1078601	523ANEW	52	MS	MS3_7700SWA
7440-50-8	Copper	2.4	18	1	0.5	100	06/15/23	1078601	523ANEW	52	MS	MS3_7700SWA
7439-92-1	Lead	0.48	11	1	0.5	100	06/15/23	1078601	523ANEW	52	MS	MS3_7700SWA
7440-02-0	Nickel	0.72	12	1	0.5	100	06/15/23	1078601	523ANEW	52	MS	MS3_7700SWA
7782-49-2	Selenium	2.4	ND	1	0.5	100	06/15/23	1078601	523ANEW	52	MS	MS3_7700SWA
7440-22-4	Silver	0.24	ND	1	0.5	100	06/15/23	1078601	523ANEW	52	MS	MS3_7700SWA
7440-28-0	Thallium	0.48	ND	1	0.5	100	06/15/23	1078601	523ANEW	52	MS	MS3_7700SWA
7440-66-6	Zinc	4.8	29	1	0.5	100	06/15/23	1078601	523ANEW	52	MS	MS3_7700SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-008	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-9 10-12	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.10	ND	1	0.15	25	06/15/23	107860	H29848S	29	CV	HGCV4A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Metal Data
QC Data

FORM 2
(ICV/CCV Summary)

Date Analyzed: 06/15/23
Data File: S061523ANEW
Prep Batch: 107860
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 3061310

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-397367-9	Rec	CCV V-397371-19	Rec	CCV V-397371-31	Rec	CCV V-397371-43	Rec	CCV V-397371-55	Rec	CCV V-397371-66	Rec		Rec		Rec
Aluminum	5000/1500	5038.9240	101	1495.5560	100	1497.1840	100	1419.1330	95	1427.8780	95	1384.2330	92				
Antimony	50/50	49.26400	99	49.84200	100	49.79200	100	49.77700	100	49.54000	99	49.97700	100				
Arsenic	50/50	49.45400	99	49.33400	99	49.60100	99	48.91400	98	49.02400	98	48.25100	97				
Barium	50/50	45.83500	92	47.37400	95	47.31900	95	47.00700	94	47.46200	95	46.66500	93				
Beryllium	50/50	48.78000	98	53.20500	106	52.00600	104	48.38100	97	48.90300	98	47.39800	95				
Cadmium	50/50	49.24900	98	49.22900	98	49.36700	99	49.23200	98	49.03600	98	48.94000	98				
Calcium	5000/5000	4892.0280	98	4949.9190	99	4986.1640	100	4822.1270	96	4799.4030	96	4649.6800	93				
Chromium	50/50	49.00700	98	48.93300	98	49.36000	99	48.73800	97	48.69600	97	47.65900	95				
Cobalt	50/50	48.17800	96	47.47700	95	48.19600	96	47.70500	95	48.08900	96	46.77800	94				
Copper	50/50	49.77300	100	49.37100	99	49.47400	99	49.91100	100	49.80500	100	48.74100	97				
Iron	5000/5000	4903.7190	98	4921.3790	98	4975.5010	100	4926.2500	99	4941.0390	99	4847.3080	97				
Lead	50/50	49.74700	99	50.90500	102	50.15100	100	50.48100	101	50.56900	101	50.51200	101				
Magnesium	5000/5000	5031.0510	101	4981.1620	100	4984.7760	100	4830.0880	97	4836.3660	97	4741.7770	95				
Manganese	50/50	49.47300	99	49.64500	99	49.88600	100	48.56600	97	48.61100	97	47.85000	96				
Nickel	50/50	49.74000	99	49.25400	99	49.54500	99	49.36700	99	49.92900	100	48.39400	97				
Potassium	5000/5000	4927.9270	99	5004.8300	100	5008.5350	100	4778.0790	96	4792.4060	96	4661.2130	93				
Selenium	50/250	50.02900	100	250.46100	100	251.38800	101	243.18100	97	245.86900	98	239.95200	96				
Silver	10/50	9.63600	96	50.57100	101	50.71200	101	50.13100	100	50.93500	102	50.39500	101				
Sodium	5000/5000	4872.0870	97	4893.7950	98	4938.6130	99	4761.3010	95	4771.1710	95	4627.5830	93				
Thallium	50/50	48.73200	97	50.89900	102	50.52400	101	50.74100	101	50.67600	101	51.17400	102				
Vanadium	50/50	48.14900	96	48.95100	98	49.18100	98	48.13700	96	48.34900	97	46.96600	94				
Zinc	50/50	49.60400	99	49.12500	98	49.35100	99	49.73700	99	49.65600	99	48.75000	98				

Notes: a-indicates analyte failed the ICV limits for 6010D/6020B
b-indicates analyte failed the ICV limits for 200.7/200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010D/6020B/Hg 7470A/7471B
d-indicates analyte failed the CCV limits for Hg 7470A/7471B

Qc Limits: ICV - 200.7/245.1 (95-105)
ICV - 200.8/6010D/6020B/Hg 7470A/7471B (90-110)
CCV - 200.7/200.8/6010D/6020B/Hg 245.1/7470A/7471B (90-110)

FORM 2
LLQCS/LRS Summary)

Date Analyzed: 06/15/23
Data File: S061523ANEW
Prep Batch: 107860
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 3061310

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

Analyte	LLQCS Spike Amount	LLICV V-397372	Recovery	Low Limit	High Limit	LRS Spike Amount	LRS V-397370	Recovery	Low Limit	High Limit
Magnesium	500	466.052	93	80	120	200000	196571.304	98	90	110
Aluminum	500	481.852	96	80	120	165000	176420.194	107	90	110
Arsenic	1	0.972	97	80	120	500	498.810	100	90	110
Barium	5	4.378	88	80	120	2500	2340.303	94	90	110
Beryllium	1	0.962	96	80	120	500	497.878	100	90	110
Calcium	500	467.817	94	80	120	200000	209009.003	105	90	110
Cadmium	2	1.884	94	80	120	500	478.177	96	90	110
Cobalt	2	1.842	92	80	120	500	471.878	94	90	110
Chromium	2	1.877	94	80	120	500	516.865	103	90	110
Copper	10	9.377	94	80	120	2500	2491.702	100	90	110
Silver	1	0.891	89	80	120	500	312.436	62 a	90	110
Potassium	500	461.954	92	80	120	200000	209633.739	105	90	110
Zinc	20	18.917	95	80	120	2500	2476.653	99	90	110
Manganese	6	5.582	93	80	120	2500	2552.580	102	90	110
Molybdenum	1	1.034	103	80	120	500	499.596	100	90	110
Sodium	500	455.939	91	80	120	200000	197518.957	99	90	110
Nickel	3	2.897	97	80	120	500	480.147	96	90	110
Lead	2	1.746	87	80	120	2500	2388.461	96	90	110
Antimony	4	3.770	94	80	120	500	475.984	95	90	110
Selenium	10	9.080	91	80	120	2500	2495.451	100	90	110
Thallium	2	1.796	90	80	120	500	460.519	92	90	110
Vanadium	1	0.877	88	80	120	500	535.149	107	90	110
Iron	500	479.808	96	80	120	200000	191156.825	96	90	110

Notes: a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

FORM 2
(ICV/CCV Summary)

Date Analyzed: 06/15/23
Data File: H29848S
Prep Batch: 107860
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: HGCV4A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 3061310

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV (2) V-397343-8	Rec	CCV V-397344-20	Rec	CCV V-397344-32	Rec		Rec		Rec		Rec		Rec		Rec
Mercury	20/10	20.88000	104	10.80000	108	10.85000	108										

Notes:
a-indicates analyte failed the ICV limits for 6010D/6020B
b-indicates analyte failed the ICV limits for 200.7/200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010D/6020B/Hg 7470A/7471B
d-indicates analyte failed the CCV limits for Hg 7470A/7471B

Qc Limits:
ICV - 200.7/245.1 (95-105)
ICV - 200.8/6010D/6020B/Hg 7470A/7471B (90-110)
CCV - 200.7/200.8/6010D/6020B/Hg 245.1/7470A/7471B (90-110)

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 06/15/23
Data File: S061523ANEW
Prep Batch: 107860
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 3061310

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-397368-11	CCB V-397368-20	CCB V-397368-32	CCB V-397368-44	CCB V-397368-56	CCB V-397368-67	MB 107860-21
Aluminum	250 U	500 U	500 U	500 U	500 U	500U	50000U
Antimony	2 U	4 U	4 U	4 U	4 U	4U	400U
Arsenic	.5 U	1 U	1 U	1 U	1 U	1U	100U
Barium	2.5 U	5 U	5 U	5 U	5 U	5U	500U
Beryllium	.5 U	1 U	1 U	1 U	1 U	1U	100U
Cadmium	1 U	2 U	2 U	2 U	2 U	2U	200U
Calcium	250 U	500 U	500 U	500 U	500 U	500U	50000U
Chromium	1 U	2 U	2 U	2 U	2 U	2U	200U
Cobalt	1 U	2 U	2 U	2 U	2 U	2U	200U
Copper	5 U	10 U	10 U	10 U	10 U	10U	1000U
Iron	250 U	500 U	500 U	500 U	500 U	500U	50000U
Lead	1 U	2 U	2 U	2 U	2 U	2U	200U
Magnesium	250 U	500 U	500 U	500 U	500 U	500U	50000U
Manganese	3 U	6 U	6 U	6 U	6 U	6U	600U
Nickel	1.5 U	3 U	3 U	3 U	3 U	3U	300U
Potassium	250 U	500 U	500 U	500 U	500 U	500U	50000U
Selenium	5 U	10 U	10 U	10 U	10 U	10U	1000U
Silver	.5 U	1 U	1 U	1 U	1 U	1U	100U
Sodium	250 U	500 U	500 U	500 U	500 U	500U	50000U
Thallium	1 U	2 U	2 U	2 U	2 U	2U	200U
Vanadium	.5 U	1 U	1 U	1 U	1 U	1U	100U
Zinc	10 U	20 U	20 U	20 U	20 U	20U	2000U

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 06/15/23
Data File: H29848S
Prep Batch: 107860
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: HGCV4A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 3061310

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-397345-9	CCB V-397345-21	CCB V-397345-33	MB 107860 (167)-10				
Mercury	.5U	.5U	.5U	83U				

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 06/15/23
Data File: S061523ANEW
Prep Batch: 107860
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 3061310

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-397369-12	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	50000	52804.88	106							
Antimony	0	U								
Arsenic	0	U								
Barium	0	U								
Beryllium	0	U								
Cadmium	0	U								
Calcium	150000	154738.8	103							
Chromium	0	U								
Cobalt	0	U								
Copper	0	U								
Iron	125000	123599.7	99							
Lead	0	U								
Magnesium	50000	49473.64	99							
Manganese	0	U								
Nickel	0	U								
Potassium	50000	50707.85	101							
Selenium	0	U								
Silver	0	U								
Sodium	125000	123852.6	99							
Thallium	0	U								
Vanadium	0	U								
Zinc	0	U								

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

Qc Limits: 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 107860

Instrument Type: ICPMS
Analytical Method(s):6020B/200.8 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 107860

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Antimony	107860	1	S061523A	23	71.2230	138	52		10	132
Arsenic	107860	1	S061523A	23	82.7250	99.4	83		64	119
Beryllium	107860	1	S061523A	23	114.5650	135	85		69	115
Cadmium	107860	1	S061523A	23	64.1390	75.9	85		70	116
Chromium	107860	1	S061523A	23	41.4780	53.8	77		69	128
Copper	107860	1	S061523A	23	136.8840	160	86		70	116
Lead	107860	1	S061523A	23	70.7790	80.9	87		63	121
Nickel	107860	1	S061523A	23	121.2190	143	85		65	120
Selenium	107860	1	S061523A	23	120.8680	143	85		59	119
Silver	107860	1	S061523A	23	23.6630	28.8	82		63	124
Thallium	107860	1	S061523A	23	71.3050	86.1	83		59	123
Zinc	107860	1	S061523A	23	205.7980	244	84		66	123

TxtQcType: LCS Matrix: SOIL SampleID: LCS 107860

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Antimony	107860	1	S061523A	22	70.8640	138	51		10	132
Arsenic	107860	1	S061523A	22	84.8240	99.4	85		64	119
Beryllium	107860	1	S061523A	22	113.9470	135	84		69	115
Cadmium	107860	1	S061523A	22	64.3260	75.9	85		70	116
Chromium	107860	1	S061523A	22	41.8270	53.8	78		69	128
Copper	107860	1	S061523A	22	138.4670	160	87		70	116
Lead	107860	1	S061523A	22	70.0410	80.9	87		63	121
Nickel	107860	1	S061523A	22	122.8020	143	86		65	120
Selenium	107860	1	S061523A	22	120.9240	143	85		59	119
Silver	107860	1	S061523A	22	23.6870	28.8	82		63	124
Thallium	107860	1	S061523A	22	71.0560	86.1	83		59	123
Zinc	107860	1	S061523A	22	209.2180	244	86		66	123

TxtQcType: MSD Matrix: SOIL SampleID: AD38537-001

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Antimony	107860	1	S061523A	28	S061523A	24	147.7020	4U	250	59	a	75	125
Arsenic	107860	1	S061523A	28	S061523A	24	280.9970	21.9640	250	104		75	125
Beryllium	107860	1	S061523A	28	S061523A	24	224.5010	1U	250	90		75	125
Cadmium	107860	1	S061523A	28	S061523A	24	229.6680	2U	250	92		75	125
Chromium	107860	1	S061523A	28	S061523A	24	268.9860	35.7020	250	93		75	125
Copper	107860	1	S061523A	28	S061523A	24	345.2760	125.6110	250	88		75	125
Lead	107860	1	S061523A	28	S061523A	24	233.3870	15.6790	250	87		75	125
Nickel	107860	1	S061523A	28	S061523A	24	295.5540	54.9290	250	96		75	125
Selenium	107860	1	S061523A	28	S061523A	24	221.4750	10U	250	89		75	125
Silver	107860	1	S061523A	28	S061523A	24	43.2820	1U	50	87		75	125
Thallium	107860	1	S061523A	28	S061523A	24	213.8250	2U	250	86		75	125
Zinc	107860	1	S061523A	28	S061523A	24	353.5690	164.4040	250	76		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 107860

Instrument Type: ICPMS
Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: MS Matrix: SOIL SampleID: AD38537-001

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Antimony	107860	1	S061523A	27	S061523A	24	147.4280	4U	250	59	a	75	125
Arsenic	107860	1	S061523A	27	S061523A	24	254.0070	21.9640	250	93		75	125
Beryllium	107860	1	S061523A	27	S061523A	24	227.6680	1U	250	91		75	125
Cadmium	107860	1	S061523A	27	S061523A	24	235.5100	2U	250	94		75	125
Chromium	107860	1	S061523A	27	S061523A	24	273.0900	35.7020	250	95		75	125
Copper	107860	1	S061523A	27	S061523A	24	361.4370	125.6110	250	94		75	125
Lead	107860	1	S061523A	27	S061523A	24	233.3030	15.6790	250	87		75	125
Nickel	107860	1	S061523A	27	S061523A	24	296.3270	54.9290	250	97		75	125
Selenium	107860	1	S061523A	27	S061523A	24	225.5760	10U	250	90		75	125
Silver	107860	1	S061523A	27	S061523A	24	44.6300	1U	50	89		75	125
Thallium	107860	1	S061523A	27	S061523A	24	217.3680	2U	250	87		75	125
Zinc	107860	1	S061523A	27	S061523A	24	382.8620	164.4040	250	87		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 107860

Instrument Type: ICPMS
Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS | Matrix: SOIL | SampleID: AD38537-001

Analyte	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Antimony	1	S061523A	29	S061523A	24	57.7480	4U	50	115		75	125
Arsenic	1	S061523A	29	S061523A	24	78.5530	21.9640	50	113		75	125
Beryllium	1	S061523A	29	S061523A	24	56.8990	1U	50	114		75	125
Cadmium	1	S061523A	29	S061523A	24	56.2410	2U	50	112		75	125
Chromium	1	S061523A	29	S061523A	24	92.4630	35.7020	50	114		75	125
Copper	1	S061523A	29	S061523A	24	183.9580	125.6110	50	117		75	125
Lead	1	S061523A	29	S061523A	24	71.4120	15.6790	50	111		75	125
Nickel	1	S061523A	29	S061523A	24	109.7020	54.9290	50	110		75	125
Selenium	1	S061523A	29	S061523A	24	286.2050	10U	250	114		75	125
Silver	1	S061523A	29	S061523A	24	57.4220	1U	50	115		75	125
Thallium	1	S061523A	29	S061523A	24	56.0900	2U	50	112		75	125
Zinc	1	S061523A	29	S061523A	24	215.2130	164.4040	50	102		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 107860

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 107860

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Mercury	107860	1	H29848S	12	24.7700	34.32	72		42	110

TxtQcType: LCS Matrix: SOIL SampleID: LCS 107860

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Mercury	107860	1	H29848S	11	23.3600	34.32	68		42	110

TxtQcType: MSD Matrix: SOIL SampleID: AD38537-001

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Mercury	107860	1	H29848S	16	H29848S	13	10.6100	.5U	10	106		80	120

TxtQcType: MS Matrix: SOIL SampleID: AD38537-001

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Mercury	107860	1	H29848S	15	H29848S	13	10.5200	.5U	10	105		80	120

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 107860

Instrument Type: ICPMS

Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR | Matrix: SOIL | SampleID: LCS MR 107860

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Antimony	107860	S061523A	23	S061523A	22	71.2230	70.8640	.51	20
Arsenic	107860	S061523A	23	S061523A	22	82.7250	84.8240	2.5	20
Beryllium	107860	S061523A	23	S061523A	22	114.5650	113.9470	.54	20
Cadmium	107860	S061523A	23	S061523A	22	64.1390	64.3260	.29	20
Chromium	107860	S061523A	23	S061523A	22	41.4780	41.8270	.84	20
Copper	107860	S061523A	23	S061523A	22	136.8840	138.4670	1.1	20
Lead	107860	S061523A	23	S061523A	22	70.7790	70.0410	1	20
Nickel	107860	S061523A	23	S061523A	22	121.2190	122.8020	1.3	20
Selenium	107860	S061523A	23	S061523A	22	120.8680	120.9240	.046	20
Silver	107860	S061523A	23	S061523A	22	23.6630	23.6870	.1	20
Thallium	107860	S061523A	23	S061523A	22	71.3050	71.0560	.35	20
Zinc	107860	S061523A	23	S061523A	22	205.7980	209.2180	1.6	20

TxtQcType: MR | Matrix: SOIL | SampleID: AD38537-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Antimony	107860	S061523A	25	S061523A	24	4U	4U	---	20
Arsenic	107860	S061523A	25	S061523A	24	21.5040	21.9640	2.1	20
Beryllium	107860	S061523A	25	S061523A	24	1U	1U	---	20
Cadmium	107860	S061523A	25	S061523A	24	2U	2U	---	20
Chromium	107860	S061523A	25	S061523A	24	37.0610	35.7020	3.7	20
Copper	107860	S061523A	25	S061523A	24	121.4760	125.6110	3.3	20
Lead	107860	S061523A	25	S061523A	24	14.5060	15.6790	7.8	20
Nickel	107860	S061523A	25	S061523A	24	55.0580	54.9290	0.23	20
Selenium	107860	S061523A	25	S061523A	24	10U	10U	---	20
Silver	107860	S061523A	25	S061523A	24	1U	1U	---	20
Thallium	107860	S061523A	25	S061523A	24	2U	2U	---	20
Zinc	107860	S061523A	25	S061523A	24	153.8050	164.4040	6.7	20

TxtQcType: MSD | Matrix: SOIL | SampleID: AD38537-001

Analyte	BatchId	Data File	Seq#:	MS File	Seq#	Result 1	Result 2	RPD	Limit
Antimony	107860	S061523A	28	S061523A	27	147.7020	147.4280	.19	20
Arsenic	107860	S061523A	28	S061523A	27	280.9970	254.0070	10	20
Beryllium	107860	S061523A	28	S061523A	27	224.5010	227.6680	1.4	20
Cadmium	107860	S061523A	28	S061523A	27	229.6680	235.5100	2.5	20
Chromium	107860	S061523A	28	S061523A	27	268.9860	273.0900	1.5	20
Copper	107860	S061523A	28	S061523A	27	345.2760	361.4370	4.6	20
Lead	107860	S061523A	28	S061523A	27	233.3870	233.3030	.036	20
Nickel	107860	S061523A	28	S061523A	27	295.5540	296.3270	.26	20
Selenium	107860	S061523A	28	S061523A	27	221.4750	225.5760	1.8	20
Silver	107860	S061523A	28	S061523A	27	43.2820	44.6300	3.1	20
Thallium	107860	S061523A	28	S061523A	27	213.8250	217.3680	1.6	20
Zinc	107860	S061523A	28	S061523A	27	353.5690	382.8620	8	20

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 107860

Instrument Type: ICPMS

Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: SD | Matrix: SOIL | SampleID: AD38537-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Antimony	107860	S061523A	26	S061523A	24	5	-0.0890	0.3730	---		20
Arsenic	107860	S061523A	26	S061523A	24	5	4.3230	21.9640	1.6		20
Beryllium	107860	S061523A	26	S061523A	24	5	0.1990	0.8700	14	c	20
Cadmium	107860	S061523A	26	S061523A	24	5	0.0370	0.1920	3.6		20
Chromium	107860	S061523A	26	S061523A	24	5	7.0820	35.7020	0.82		20
Copper	107860	S061523A	26	S061523A	24	5	24.9860	125.6110	0.54		20
Lead	107860	S061523A	26	S061523A	24	5	3.2640	15.6790	4.1		20
Nickel	107860	S061523A	26	S061523A	24	5	10.8700	54.9290	1.1		20
Selenium	107860	S061523A	26	S061523A	24	5	0.8340	4.7630	12	c	20
Silver	107860	S061523A	26	S061523A	24	5	0.0990	0.3630	36	c	20
Thallium	107860	S061523A	26	S061523A	24	5	0.0490	0.3570	31	c	20
Zinc	107860	S061523A	26	S061523A	24	5	35.3330	164.4040	7.5		20

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 107860

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 107860

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Mercury	107860	H29848S	12	H29848S	11	24.7700	23.3600	5.9	20

TxtQcType: MR Matrix: SOIL SampleID: AD38537-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Mercury	107860	H29848S	14	H29848S	13	.5U	.5U	---	20

TxtQcType: MSD Matrix: SOIL SampleID: AD38537-001

Analyte	BatchId	Data File	Seq#:	MS File	Seq#	Result 1	Result 2	RPD	Limit
Mercury	107860	H29848S	16	H29848S	15	10.6100	10.5200	.85	20

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

Metal Data
Verification of Instrument Parameters

MDL/RL
Method 6020/6020A
Combined 2022
SOIL

ELEMENT	MDL (MG/KG)	Reporting Limits (MG/KG)
Al	3.4579	100
Sb	0.1082	0.8
AS	0.0940	0.2
BA	0.1003	1
BE	0.0316	0.2
CA	20.5147	100
CD	0.0385	0.4
CR	0.1610	0.4
CO	0.0182	0.4
CU	0.8945	2
FE	5.6894	100
PB	0.0520	0.4
MG	3.1240	100
MN	0.6636	1.2
MO	0.0572	0.2
NA	21.6786	100
Ni	0.2513	0.6
K	9.1953	100
Se	0.3717	2
Ag	0.0945	0.2
TL	0.0276	0.4
V	0.0481	0.2
Zn	2.4703	4

MDL/RL 2022 SUMMARY SHEET HgCV3 & HgCV4

Element: *Mercury*
Instrument: *PE FIMS 100*
Technique: *CV*

Instrument ID: HgCV3 & 4
Analyst: Jazmine Leary

200 Series	METHOD	MDL	RL	CONFIRMED
		ppb	*ppb*	
H20	**245.1**	0.157	0.20	12/30/2022

SW846	METHOD	MDL	RL	CONFIRMED
		ppb	*ppb*	
H2O	**7470A**	0.098	0.50	12/30/2022
SOIL	**7471 B**	0.119	0.50	12/30/2022
		0.0198 mg/kg	0.0833 mg/kg	

completed 12/30/2022
24 months data from 01/2021 to 12/2022

Metal Data
Raw Data

Form1

Inorganic Analysis Data Sheet

Sample ID: MB 107860 % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 107860 Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	50	ND	1	0.5	100	06/15/23	107860	1523ANEW	21	MS	1S3_7700SWA
7440-36-0	Antimony	0.40	ND	1	0.5	100	06/15/23	107860	1523ANEW	21	MS	1S3_7700SWA
7440-38-2	Arsenic	0.10	ND	1	0.5	100	06/15/23	107860	1523ANEW	21	MS	1S3_7700SWA
7440-39-3	Barium	0.50	ND	1	0.5	100	06/15/23	107860	1523ANEW	21	MS	1S3_7700SWA
7440-41-7	Beryllium	0.10	ND	1	0.5	100	06/15/23	107860	1523ANEW	21	MS	1S3_7700SWA
7440-43-9	Cadmium	0.20	ND	1	0.5	100	06/15/23	107860	1523ANEW	21	MS	1S3_7700SWA
7440-70-2	Calcium	50	ND	1	0.5	100	06/15/23	107860	1523ANEW	21	MS	1S3_7700SWA
7440-47-3	Chromium	0.20	ND	1	0.5	100	06/15/23	107860	1523ANEW	21	MS	1S3_7700SWA
7440-48-4	Cobalt	0.20	ND	1	0.5	100	06/15/23	107860	1523ANEW	21	MS	1S3_7700SWA
7440-50-8	Copper	1.0	ND	1	0.5	100	06/15/23	107860	1523ANEW	21	MS	1S3_7700SWA
7439-89-6	Iron	50	ND	1	0.5	100	06/15/23	107860	1523ANEW	21	MS	1S3_7700SWA
7439-92-1	Lead	0.20	ND	1	0.5	100	06/15/23	107860	1523ANEW	21	MS	1S3_7700SWA
7439-95-4	Magnesium	50	ND	1	0.5	100	06/15/23	107860	1523ANEW	21	MS	1S3_7700SWA
7439-96-5	Manganese	0.60	ND	1	0.5	100	06/15/23	107860	1523ANEW	21	MS	1S3_7700SWA
7439-98-7	Molybdenum	0.10	ND	1	0.5	100	06/15/23	107860	1523ANEW	21	MS	1S3_7700SWA
7440-02-0	Nickel	0.30	ND	1	0.5	100	06/15/23	107860	1523ANEW	21	MS	1S3_7700SWA
7440-09-7	Potassium	50	ND	1	0.5	100	06/15/23	107860	1523ANEW	21	MS	1S3_7700SWA
7782-49-2	Selenium	1.0	ND	1	0.5	100	06/15/23	107860	1523ANEW	21	MS	1S3_7700SWA
7440-22-4	Silver	0.10	ND	1	0.5	100	06/15/23	107860	1523ANEW	21	MS	1S3_7700SWA
7440-23-5	Sodium	50	ND	1	0.5	100	06/15/23	107860	1523ANEW	21	MS	1S3_7700SWA
7440-28-0	Thallium	0.20	ND	1	0.5	100	06/15/23	107860	1523ANEW	21	MS	1S3_7700SWA
7440-62-2	Vanadium	0.10	ND	1	0.5	100	06/15/23	107860	1523ANEW	21	MS	1S3_7700SWA
7440-66-6	Zinc	2.0	ND	1	0.5	100	06/15/23	107860	1523ANEW	21	MS	1S3_7700SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID: MB 107860 (167) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 107860 (167) Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.083	ND	1	0.15	25	06/15/23	107860	H29848S	10	CV	HGCV4A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\MS3_7700SWA\S061523ANEW.txt

Analysis Date: 06/15/23 **Instrument:**MS3_7700SWA

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
RINSE	1	NA	10:17	1		SOIL	SOIL	SW846	107860		()
RINSE	1	NA	10:22	2		SOIL	SOIL	SW846	107860		()
CalBlk V-397361	1	ISBLK	10:26	3		SOIL	SOIL				V-397361(Cal Blk WARNING)
CalStd1 V-397362	1	CAL	10:31	4							V-397362(Cal Std-1 WARNING)
CalStd2 V-397363	1	CAL	10:35	5							V-397363(Cal Std-2 WARNING)
CalStd3 V-397364	1	CAL	10:40	6							V-397364(Cal Std-3 WARNING)
CalStd4 V-397365	1	CAL	10:44	7							V-397365(Cal Std-4 WARNING)
CalStd5 V-397366	1	CAL	10:49	8							V-397366(Cal Std-5 WARNING)
ICV V-397367	1	ICV	10:53	9							V-397367(ICV WARNING)
LLICV V-397372	1	LLICV	10:58	10		SOIL	SOIL	SW846	107860		V-397372(LL-ICV/CCV SOIL WARNING)
ICB V-397368	1	ICB	11:02	11							V-397368(ICB/CCB WARNING)
ICSA V-397369	1	ICSA	11:07	12							V-397369(ICSA WARNING)
RINSE	1	NA	11:11	13		SOIL	SOIL	SW846	107860		()
LRS V-397370	1	LRS	11:16	14		SOIL	SOIL	SW846	107860	Ag fail.	V-397370(LRS WARNING)
RINSE	1	NA	11:20	15		SOIL	SOIL	SW846	107860		()
RINSE	1	NA	11:24	16		SOIL	SOIL	SW846	107860		()
RINSE	1	NA	11:33	17		SOIL	SOIL	SW846	107860		()
RINSE	1	NA	11:37	18		SOIL	SOIL	SW846	107860		()
CCV V-397371	1	CCV	11:42	19							V-397371(CCV WARNING)
CCB V-397368	1	CCB	11:49	20							V-397368(ICB/CCB WARNING)
MB 107860	1	MB	11:54	21		SOIL	SOIL	SW846	107860		()
LCS 107860	1	LCS	11:58	22		SOIL	SOIL	SW846	107860		()
LCS MR 107860	1	LCS	12:02	23		SOIL	SOIL	SW846	107860		()
AD38537-001	1	SMP	12:07	24	MET-PP6020S	SOIL	SOIL	SW846	107860	Rerun Mn (LR). QC only	()
AD38537-001	1	MR	12:11	25	MET-PP6020S	SOIL	SOIL	SW846	107860	Rerun Mn (LR). QC only	()
AD38537-001	5	SD	12:16	26	MET-PP6020S	SOIL	SOIL	SW846	107860	Rerun Mn (LR). QC only	()
AD38537-001	1	MS	12:20	27	MET-PP6020S	SOIL	SOIL	SW846	107860	Rerun Mn (LR). QC only	()
AD38537-001	1	MSD	12:24	28	MET-PP6020S	SOIL	SOIL	SW846	107860	Rerun Mn (LR). QC only	()
AD38537-001	1	PS	12:28	29	MET-PP6020S	SOIL	SOIL	SW846	107860	Rerun Mn (LR). QC only	()
RINSE	1	NA	12:33	30		SOIL	SOIL	SW846	107860		()
CCV V-397371	1	CCV	12:37	31							V-397371(CCV WARNING)
CCB V-397368	1	CCB	12:42	32							V-397368(ICB/CCB WARNING)
AD38551-004	1	SMP	12:46	33	MET-PP6020S	SOIL	SOIL	SW846	107860		()
AD38515-001	1	SMP	12:51	34	MET-TAL6020S	SOIL	SOIL	SW846	107860		()
AD38540-004	1	SMP	12:55	35	MET-TAL6020S	SOIL	SOIL	SW846	107860		()
AD38540-007	1	SMP	12:59	36	MET-TAL6020S	SOIL	SOIL	SW846	107860		()
AD38540-014	1	SMP	13:04	37	MET-TAL6020S	SOIL	SOIL	SW846	107860	Rerun Ca (LR).	()
AD38540-021	1	SMP	13:08	38	MET-TAL6020S	SOIL	SOIL	SW846	107860		()
AD38540-002	1	SMP	13:13	39	MET-TAL6020S	SOIL	SOIL	SW846	107860		()
AD38540-005	1	SMP	13:17	40	MET-TAL6020S	SOIL	SOIL	SW846	107860		()
AD38540-008	1	SMP	13:22	41	MET-TAL6020S	SOIL	SOIL	SW846	107860		()
RINSE	1	NA	13:26	42		SOIL	SOIL	SW846	107860		()
CCV V-397371	1	CCV	13:31	43							V-397371(CCV WARNING)
CCB V-397368	1	CCB	13:35	44							V-397368(ICB/CCB WARNING)
AD38540-011	1	SMP	13:40	45	MET-TAL6020S	SOIL	SOIL	SW846	107860		()
AD38537-002	1	SMP	13:44	46	MET-PP6020S	SOIL	SOIL	SW846	107860		()
AD38537-003	1	SMP	13:48	47	MET-PP6020S	SOIL	SOIL	SW846	107860		()
AD38537-004	1	SMP	13:53	48	MET-PP6020S	SOIL	SOIL	SW846	107860		()
AD38537-005	1	SMP	13:57	49	MET-PP6020S	SOIL	SOIL	SW846	107860		()
AD38537-006	1	SMP	14:02	50	MET-PP6020S	SOIL	SOIL	SW846	107860		()
AD38537-007	1	SMP	14:06	51	MET-PP6020S	SOIL	SOIL	SW846	107860		()
AD38537-008	1	SMP	14:11	52	MET-PP6020S	SOIL	SOIL	SW846	107860		()
AD38537-001	5	SMP	14:15	53	MET-PP6020S	SOIL	SOIL	SW846	107860	Report Mn.	()

Comments/Reviewedby:

pcousineau
192.168.1.19 6/15/2023 3:46:03 PM

b-29845 Report Pb for 38519-001.
B-29848 Report TAL. LRS fail for Ag. Ag LR = 100ppb.
Reran 38537-001+QC for Mn (LR) QC only, Reran 38540-014 for Ca (LR).
B-29849 Report Ba for 38530-017. PC.

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor: 2x 6/14/23

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\MS3_7700SWA\S061523ANEW.txt

Analysis Date: 06/15/23

Instrument:MS3_7700SWA

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
RINSE	1	NA	14:20	54		SOIL	SOIL	SW846	107860		()
CCV V-397371	1	CCV	14:24	55							V-397371(CCV WARNING)
CCB V-397368	1	CCB	14:29	56							V-397368(ICB/CCB WARNING)
AD38537-001	5	MR	14:33	57	MET-PP6020S	SOIL	SOIL	SW846	107860	Report Mn.	()
AD38537-001	5	SD	14:38	58	MET-PP6020S	SOIL	SOIL	SW846	107860	Report Mn.	()
AD38537-001	5	MS	14:42	59	MET-PP6020S	SOIL	SOIL	SW846	107860	Report Mn.	()
AD38537-001	5	MSD	14:46	60	MET-PP6020S	SOIL	SOIL	SW846	107860	Report Mn.	()
AD38537-001	5	PS	14:51	61	MET-PP6020S	SOIL	SOIL	SW846	107860	Report Mn.	()
AD38540-014	5	SMP	14:55	62	MET-TAL6020S	SOIL	SOIL	SW846	107860	Report Ca.	()
AD38530-017	5	SMP	15:00	63	MET-TAL6020S	SOIL	SOIL	SW846	107861	Report Ba.	()
AD38519-001	5	SMP	15:04	64	MET-TAL6020S	SOIL	SOIL	SW846	107857	Report Pb.	()
RINSE	1	NA	15:09	65		SOIL	SOIL	SW846	107857		()
CCV V-397371	1	CCV	15:13	66							V-397371(CCV WARNING)
CCB V-397368	1	CCB	15:18	67							V-397368(ICB/CCB WARNING)

Comments/Reviewedby:

pcousineau
192.168.1.19 6/15/2023 3:46:03 PM

b-29845 Report Pb for 38519-001.
B-29848 Report TAL. LRS fail for Ag. Ag LR = 100ppb.
Reran 38537-001+QC for Mn (LR) QC only, Reran 38540-014 for Ca (LR).
B-29849 Report Ba for 38530-017. PC.

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor: 10 6 12 13

Standard/Batch/SnCl2 Lot #:

ICPMS Internal Standard Summary Report

TuneID: 1

Batch/FileID: S061523AN Sample ID: CalBlk V-397361 Sample Date 06/15/23 Sample Time: 10:26

IS ID	Are	Area Limit		
Ho-1	2250619.72	1575433.804	-	2925805.636
In-1	2034272.31	1423990.617	-	2644554.003
Sc-1	1616504.96	1131553.472	-	2101456.448
Tb-1	2375563.89	1662894.723	-	3088233.057

QcType	txtSamId:	Po	Ho-1 Area	In-1 Area	Sc-1 Area	Tb-1 Area	Area	Area	Area	Area
ISBLK	CalBlk V-397361	3	2250619.	2034272.	1616504.	2375563.				
SMP	RINSE	1	2102477.	1914315.	1496368.	2230563.				
SMP	RINSE	2	2130666.	1934330.	1528745.	2241110.				
CAL	CalStd1 V-39736	4	2272267.	2028585.	1610007.	2388216.				
CAL	CalStd2 V-39736	5	2286953.	2030411.	1630735.	2392789.				
CAL	CalStd3 V-39736	6	2249153.	2026247.	1637545.	2372614.				
CAL	CalStd4 V-39736	7	2270842.	2004830.	1676038.	2378724.				
CAL	CalStd5 V-39736	8	2250166.	1964276.	1654483.	2368318.				
ICV	ICV V-397367	9	2281815.	1996721.	1570299.	2385423.				
LLICV	LLICV V-397372	10	2252562.	2000406.	1518521.	2358131.				
ICB	ICB V-397368	11	2233136.	2009120.	1547092.	2360055.				
ICSA	ICSA V-397369	12	2200833.	1848611.	1659110.	2288329.				
SMP	RINSE	13	2195634.	1960897.	1454158.	2314755.				
LRS	LRS V-397370	14	2031419.	1758253.	1643837.	2140736.				
SMP	RINSE	15	2044486.	1892460.	1441992.	2157874.				
SMP	RINSE	16	2031207.	1855631.	1435302.	2126411.				
SMP	RINSE	17	2000386.	1839112.	1438032.	2129213.				
SMP	RINSE	18	2015398.	1846899.	1443708.	2114088.				
CCV	CCV V-397371	19	2125151.	1921804.	1617815.	2264926.				
CCB	CCB V-397368	20	2166403.	1957807.	1504969.	2294891.				
MB	MB 107860	21	2178528.	1954121.	1494772.	2298247.				
LCS	LCS 107860	22	2278690.	1964801.	1729905.	2396380.				
MR	LCS MR 107860	23	2253410.	1974729.	1677588.	2381356.				
SMP	AD38537-001	24	2313179.	1929415.	2408970. *	2428380.				
MR	AD38537-001	25	2318355.	1946401.	2347862. *	2439772.				
SD	AD38537-001	26	2163500.	1929748.	1606772.	2294152.				
MS	AD38537-001	27	2296596.	1996933.	2477706. *	2419930.				
MSD	AD38537-001	28	2264808.	1967592.	2278712. *	2397124.				
PS	AD38537-001	29	2266672.	1934236.	2305329. *	2363455.				
SMP	RINSE	30	2065958.	1888404.	1419367.	2188477.				
CCV	CCV V-397371	31	2151336.	1926260.	1526945.	2255209.				
CCB	CCB V-397368	32	2142782.	1926808.	1464847.	2252121.				
SMP	AD38551-004	33	2232073.	1933131.	1844437.	2362042.				
SMP	AD38515-001	34	2422424.	1897649.	2109760. *	2630521.				
SMP	AD38540-004	35	2257641.	1978376.	1590710.	2361317.				
SMP	AD38540-007	36	2232862.	1953036.	1756310.	2334244.				
SMP	AD38540-014	37	2201868.	1813691.	1810785.	2291642.				
SMP	AD38540-021	38	2333381.	1949126.	1931999.	2432691.				
SMP	AD38540-002	39	2292027.	1969574.	1546068.	2402732.				
SMP	AD38540-005	40	2245819.	1970027.	1569231.	2367960.				
SMP	AD38540-008	41	2342899.	1920781.	2244128. *	2455051.				
SMP	RINSE	42	2124710.	1897103.	1345343.	2220582.				
CCV	CCV V-397371	43	2208295.	1948046.	1486202.	2326695.				
CCB	CCB V-397368	44	2217906.	1944927.	1398503.	2336754.				
SMP	AD38540-011	45	2301210.	1966128.	1893382.	2404986.				
SMP	AD38537-002	46	2336316.	1844644.	1958673.	2428775.				
SMP	AD38537-003	47	2375241.	1960056.	2013155.	2509569.				
SMP	AD38537-004	48	2333705.	1974709.	2077594.	2456894.				

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 1

SMP	AD38537-005	49	2432759.	1856506.	2379508.	*	2548858.
SMP	AD38537-006	50	2428141.	1946544.	2609097.	*	2567889.
SMP	AD38537-007	51	2399389.	1923440.	2102240.	*	2528474.
SMP	AD38537-008	52	2399812.	1930846.	2130140.	*	2514117.
SMP	AD38537-001	53	2168689.	1902216.	1586267.		2302545.
SMP	RINSE	54	2071879.	1885974.	1409053.		2207831.
CCV	CCV V-397371	55	2168914.	1932029.	1492810.		2260063.
CCB	CCB V-397368	56	2164441.	1901866.	1432831.		2282760.
MR	AD38537-001	57	2141225.	1876895.	1649843.		2259665.
SD	AD38537-001	58	2079411.	1857034.	1425388.		2187066.
MS	AD38537-001	59	2141141.	1891427.	1633123.		2265359.
MSD	AD38537-001	60	2133113.	1879614.	1563909.		2247132.
PS	AD38537-001	61	2099174.	1833405.	1576979.		2197820.
SMP	AD38540-014	62	2090359.	1826989.	1402475.		2188319.
SMP	AD38530-017	63	2138699.	1841944.	1448324.		2242117.
SMP	AD38519-001	64	2107965.	1882189.	1418256.		2205097.
SMP	RINSE	65	2028771.	1808740.	1335307.		2118090.
CCV	CCV V-397371	66	2138076.	1879428.	1487510.		2244945.
CCB	CCB V-397368	67	2146166.	1890951.	1382403.		2260684.

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 2

Batch/FileID: S061523AN Sample ID: CalBlk V-397361 Sample Date 06/15/23 Sample Time: 10:26

IS ID	Are	Area Limit		
Ho-2	1077784.50	754449.15	-	1401119.85
In-2	383031.64	268122.148	-	497941.132
Sc-2	53186.99	37230.893	-	69143.087
Tb-2	1093391.58	765374.106	-	1421409.054

QcType	txtSamId:	Po	Ho-2 Area	In-2 Area	Sc-2 Area	Tb-2 Area	Area	Area	Area	Area
ISBLK	CalBlk V-397361	3	1077784.	383031.6	53186.99	1093391.				
SMP	RINSE	1	1071537.	396369.3	55075.35	1088084.				
SMP	RINSE	2	1067457.	398417.8	54828.07	1087771.				
CAL	CalStd1 V-39736	4	1083992.	384086.9	52704.63	1098485.				
CAL	CalStd2 V-39736	5	1095563.	383824.6	53152.09	1108917.				
CAL	CalStd3 V-39736	6	1097517.	385668.4	52884.90	1109034.				
CAL	CalStd4 V-39736	7	1119250.	382544.1	54943.90	1129201.				
CAL	CalStd5 V-39736	8	1112546.	382458.4	54139.59	1122692.				
ICV	ICV V-397367	9	1117887.	385269.8	51074.34	1138636.				
LLICV	LLICV V-397372	10	1108389.	388469.5	50712.17	1118574.				
ICB	ICB V-397368	11	1085430.	380409.8	51137.92	1099782.				
ICSA	ICSA V-397369	12	1061745.	351136.4	52740.99	1073654.				
SMP	RINSE	13	1102825.	397674.5	50516.16	1113283.				
LRS	LRS V-397370	14	1042106.	378254.1	62021.20	1051664.				
SMP	RINSE	15	1086455.	409376.2	52840.20	1104238.				
SMP	RINSE	16	1079181.	401623.5	51693.77	1097180.				
SMP	RINSE	17	1070540.	397870.3	52179.60	1091595.				
SMP	RINSE	18	1072808.	400005.1	53115.35	1090184.				
CCV	CCV V-397371	19	1102575.	391068.5	54058.22	1115276.				
CCB	CCB V-397368	20	1088879.	385507.5	49746.55	1100185.				
MB	MB 107860	21	1076455.	382154.1	50082.81	1090939.				
LCS	LCS 107860	22	1138287.	392855.8	56760.34	1160627.				
MR	LCS MR 107860	23	1152879.	397528.7	56056.14	1167701.				
SMP	AD38537-001	24	1158424.	381137.0	79589.97 *	1173619.				
MR	AD38537-001	25	1163956.	378978.3	77298.56 *	1181005.				
SD	AD38537-001	26	1110517.	384825.4	54915.03	1122743.				
MS	AD38537-001	27	1138305.	385733.1	81795.73 *	1151564.				
MSD	AD38537-001	28	1129486.	385542.9	76897.57 *	1145830.				
PS	AD38537-001	29	1144848.	382260.7	79354.59 *	1159129.				
SMP	RINSE	30	1082523.	393777.9	48817.41	1102231.				
CCV	CCV V-397371	31	1100966.	386186.7	50734.52	1109839.				
CCB	CCB V-397368	32	1076531.	383193.6	49302.77	1099445.				
SMP	AD38551-004	33	1133177.	379663.3	60636.80	1140725.				
SMP	AD38515-001	34	1184859.	356749.9	65884.13	1297320.				
SMP	AD38540-004	35	1113362.	378727.6	51818.41	1128624.				
SMP	AD38540-007	36	1119465.	376586.8	57063.55	1131834.				
SMP	AD38540-014	37	1077620.	347687.3	58906.99	1087230.				
SMP	AD38540-021	38	1151636.	367831.3	61759.51	1162800.				
SMP	AD38540-002	39	1118690.	370054.6	48423.95	1132090.				
SMP	AD38540-005	40	1101350.	368976.6	49518.01	1115451.				
SMP	AD38540-008	41	1167809.	367863.1	71622.68 *	1181230.				
SMP	RINSE	42	1085998.	377722.9	46045.88	1095725.				
CCV	CCV V-397371	43	1098419.	368952.9	46865.82	1105951.				
CCB	CCB V-397368	44	1079720.	362246.9	45734.85	1088422.				
SMP	AD38540-011	45	1113838.	363894.0	59945.58	1126204.				
SMP	AD38537-002	46	1125627.	344328.6	61945.44	1141719.				
SMP	AD38537-003	47	1171563.	367629.5	64043.52	1183472.				
SMP	AD38537-004	48	1145781.	367870.2	65644.76	1162339.				

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 2

SMP	AD38537-005	49	1185847.	346107.8	74721.40	*	1199263.
SMP	AD38537-006	50	1191016.	366826.3	82842.39	*	1210410.
SMP	AD38537-007	51	1162939.	350848.7	64970.86		1182649.
SMP	AD38537-008	52	1168166.	361161.9	67609.13		1181458.
SMP	AD38537-001	53	1095566.	370988.0	52688.66		1101031.
SMP	RINSE	54	1067653.	379481.9	46446.90		1083394.
CCV	CCV V-397371	55	1079230.	365427.7	46686.38		1090280.
CCB	CCB V-397368	56	1061228.	361395.5	44003.21		1071134.
MR	AD38537-001	57	1074313.	364464.7	52517.25		1089131.
SD	AD38537-001	58	1068205.	370160.9	47569.76		1079239.
MS	AD38537-001	59	1087818.	374660.6	54227.36		1103518.
MSD	AD38537-001	60	1090580.	376368.4	51617.74		1106434.
PS	AD38537-001	61	1087799.	373054.4	52482.49		1092860.
SMP	AD38540-014	62	1062080.	355153.7	46288.77		1078709.
SMP	AD38530-017	63	1078580.	355832.9	46973.55		1090815.
SMP	AD38519-001	64	1067150.	364423.7	46006.91		1077799.
SMP	RINSE	65	1040366.	361975.1	44385.18		1052165.
CCV	CCV V-397371	66	1070934.	356810.1	45650.30		1074995.
CCB	CCB V-397368	67	1050359.	353791.7	42889.60		1061602.

* Indicates Internal Standard Area outside of limits

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\HGCV4A\H29848S.txt

Analysis Date: 06/15/23 **Instrument** HGCV4A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-397345	1	CAL	09:35	1							V-397345(Hg soil standard blk)
.5 PPB V-397346	1	CAL	09:36	2							V-397346(Hg soil standard .5 ppb)
1 PPB V-397347	1	CAL	09:38	3							V-397347(Hg soil standard 1 ppb)
2 PPB V-397348	1	CAL	09:39	4							V-397348(Hg soil standard 2 ppb)
5 PPB V-397349	1	CAL	09:41	5							V-397349(Hg soil standard 5 ppb)
10 PPB V-397350	1	CAL	09:42	6							V-397350(Hg soil standard 10 ppb)
25 PPB V-397351	1	CAL	09:44	7							V-397351(Hg soil standard 25 ppb)
ICV (2) V-397343	1	ICV	09:46	8							V-397343(Hg Soil ICV Soil)
ICB V-397345	1	ICB	09:48	9							V-397345(Hg soil standard blk)
MB 107860 (167)	1	MB	09:49	10	HG-SOIL	SOIL	SOIL	SW846	107860		0
LCS 107860	1	LCS	09:51	11	HG-SOIL	SOIL	SOIL	SW846	107860		0
LCS MR 107860	1	LCS	09:53	12	HG-SOIL	SOIL	SOIL	SW846	107860		0
AD38537-001	1	SMP	09:55	13	HG-SOIL	SOIL	SOIL	SW846	107860		0
AD38537-001	1	MR	09:56	14	HG-SOIL	SOIL	SOIL	SW846	107860		0
AD38537-001	1	MS	09:58	15	HG-SOIL	SOIL	SOIL	SW846	107860		0
AD38537-001	1	MSD	10:00	16	HG-SOIL	SOIL	SOIL	SW846	107860		0
AD38540-004	1	SMP	10:02	17	HG-SOIL	SOIL	SOIL	SW846	107860		0
AD38540-007	1	SMP	10:03	18	HG-SOIL	SOIL	SOIL	SW846	107860		0
AD38540-014	1	SMP	10:05	19	HG-SOIL	SOIL	SOIL	SW846	107860		0
CCV V-397344	1	CCV	10:06	20							V-397344(Hg soil CCV 10ppb)
CCB V-397345	1	CCB	10:08	21							V-397345(Hg soil standard blk)
AD38540-021	1	SMP	10:10	22	HG-SOIL	SOIL	SOIL	SW846	107860		0
AD38537-002	1	SMP	10:11	23	HG-SOIL	SOIL	SOIL	SW846	107860		0
AD38537-003	1	SMP	10:13	24	HG-SOIL	SOIL	SOIL	SW846	107860		0
AD38537-004	1	SMP	10:14	25	HG-SOIL	SOIL	SOIL	SW846	107860		0
AD38537-005	1	SMP	10:16	26	HG-SOIL	SOIL	SOIL	SW846	107860		0
AD38537-006	1	SMP	10:17	27	HG-SOIL	SOIL	SOIL	SW846	107860		0
AD38537-007	1	SMP	10:19	28	HG-SOIL	SOIL	SOIL	SW846	107860		0
AD38537-008	1	SMP	10:20	29	HG-SOIL	SOIL	SOIL	SW846	107860		0
AD38515-001	1	SMP	10:22	30	HG-SOIL	SOIL	SOIL	SW846	107860		0
AD38551-004	1	SMP	10:23	31	HG-SOIL	SOIL	SOIL	SW846	107860		0
CCV V-397344	1	CCV	10:25	32							V-397344(Hg soil CCV 10ppb)
CCB V-397345	1	CCB	10:27	33							V-397345(Hg soil standard blk)

Comments/Reviewedby:

JLeary
192.168.1.55 6/15/2023 11:02:46 AM

OK

6/20/23

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

V-397377

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14784

Description
LCS SOIL (LOT#249)

ApprovedBy: shiamala
ApproveDate: 10/14/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
PHENOVA	QC-MET-SOIL	7086-04C	06/30/22	09/30/24	Aliano, Carmela	50	10g	NEAT	NEAT

Veritech Control/Receipt Number: 14857

Description
Calibration 1

ApprovedBy: shiamala
ApproveDate: 10/14/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	XHCV-19-500	3-094AJ	07/30/22	07/30/23	Aliano, Carmela	2	500m	NEAT	NEAT

Veritech Control/Receipt Number: 14858

Description
CALIBRATION 2

ApprovedBy: shiamala
ApproveDate: 10/14/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	XHCV-20-500	3-095AJ	07/30/22	07/30/23	Aliano, Carmela	2	500m	NEAT	NEAT

Veritech Control/Receipt Number: 15214

Description
Hydrogen Peroxide

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Ricca	3821.7-1	4304H01	04/18/23	08/31/24	Cousineau, Paul	4	L	neat	neat

Veritech Control/Receipt Number: 15243

Description
nitric acid

ApprovedBy: jean
ApproveDate: 05/05/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9606-03	23B0262006	04/28/23	01/12/28	Cajuste, Pierre	6	2.5L	neat	neat

Veritech Control/Receipt Number: 15244

Description
Hydrochloric Acid

ApprovedBy: akmal
ApproveDate: 06/13/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J . T , BAKER	9539-05	23B1462010	04/28/23	08/17/24	Cajuste, Pierre	16	2.5 L	Neat	Neat

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-394699

Prepared By: Leary, Jazmine
Description: B, Si, Ce INTERMEDIATE
Prep Date: 6/12/2023
Expiration Date: 6/30/2023
Department: Metals
BatchNumber:
Concentration: 100 ppm
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 05/03/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14736	DI H2O			
14990	nitric acid	5 ml	neat neat	
14988	hydrochloric acid	5 ml	neat neat	
14639	Boron	10 ml	1000 ug/ml	100 ppm
14638	Silicon	10 ml	1000 ug/ml	100 ppm
15058	Cerium	10 ml	1000 ppm	100 ppm

Veritech Lot Number: V-396398

Prepared By: Cousineau, Paul
Description: 1:1 HNO3 WARNING
Prep Date: 5/31/2023
Expiration Date: 7/17/2023
Department: Metals
BatchNumber:
Concentration: Reagent reag
Final Volume: 1000 ml
ApprovedBy: shiamala
ApproveDate: 05/31/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14736	DI H2O	500 ml		
15243	nitric acid	500 ml	neat neat	

Veritech Lot Number: V-396455

Prepared By: Cousineau, Paul
Description: 6020 CALIBRATION STOCK
Prep Date: 6/1/2023
Expiration Date: 9/1/2023
Department: Metals
BatchNumber:
Concentration: VARIOUS pp
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 06/02/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14990	nitric acid	2 ml	neat neat	
15332	Aluminum	.725 ml	10000 ug/ml	72.5
15334	Calcium	2.5 ml	10000 ug/ml	250
15335	Iron	2.5 ml	10000 ug/ml	250
15331	Magnesium	2.5 ml	10000 ug/ml	250
15330	Potassium	2.5 ml	10000 ug/ml	250
15333	Sodium	2.5 ml	10000 ug/ml	250
15302	Selenium 1000ppm	1 ml	1000 mg/l	10
15216	6020 Cal Std.	12.5 ml	multi ug/ml	2.5

Veritech Lot Number: V-397361

Prepared By: Cousineau, Paul
Description: Cal Blk WARNING
Prep Date: 6/15/2023
Expiration Date: 6/22/2023
Department: Metals
BatchNumber: B-34963
Concentration: 0 ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 06/20/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14990	nitric acid	2.5 ml	neat neat	
14988	hydrochloric acid	.5 ml	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-397362

Prepared By: Cousineau, Paul | Department: Metals | ApprovedBy: shiamala
Description: Cal Std-1 WARNING | BatchNumber: B-34963 | ApproveDate: 06/20/23
Prep Date: 6/15/2023 | Concentration: various ppb | Checked: Yes
Expiration Date: 6/22/2023 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14990	nitric acid	2.5 ml	neat neat	
14988	hydrochloric acid	.5 ml	neat neat	
V-396455	6020 CALIBRATION STOCK	.02 ml	VARIOUS pp	

Veritech Lot Number: V-397363

Prepared By: Cousineau, Paul | Department: Metals | ApprovedBy: shiamala
Description: Cal Std-2 WARNING | BatchNumber: B-34963 | ApproveDate: 06/20/23
Prep Date: 6/15/2023 | Concentration: various ppb | Checked: Yes
Expiration Date: 6/22/2023 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14990	nitric acid	2.5 ml	neat neat	
V-396455	6020 CALIBRATION STOCK	.2 ml	VARIOUS pp	
14988	hydrochloric acid	.5 ml	neat neat	

Veritech Lot Number: V-397364

Prepared By: Cousineau, Paul | Department: Metals | ApprovedBy: shiamala
Description: Cal Std-3 WARNING | BatchNumber: B-34963 | ApproveDate: 06/20/23
Prep Date: 6/15/2023 | Concentration: various ppb | Checked: Yes
Expiration Date: 6/22/2023 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14990	nitric acid	2.5 ml	neat neat	
V-396455	6020 CALIBRATION STOCK	.4 ml	VARIOUS pp	
14988	hydrochloric acid	.5 ml	neat neat	

Veritech Lot Number: V-397365

Prepared By: Cousineau, Paul | Department: Metals | ApprovedBy: shiamala
Description: Cal Std-4 WARNING | BatchNumber: B-34963 | ApproveDate: 06/20/23
Prep Date: 6/15/2023 | Concentration: various ppb | Checked: Yes
Expiration Date: 6/22/2023 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14990	nitric acid	2.5 ml	neat neat	
V-396455	6020 CALIBRATION STOCK	2 ml	VARIOUS pp	
14988	hydrochloric acid	.5 ml	neat neat	

Veritech Lot Number: V-397366

Prepared By: Cousineau, Paul | Department: Metals | ApprovedBy: shiamala
Description: Cal Std-5 WARNING | BatchNumber: B-34963 | ApproveDate: 06/20/23
Prep Date: 6/15/2023 | Concentration: various ppb | Checked: Yes
Expiration Date: 6/22/2023 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14990	nitric acid	2.5 ml	neat neat	
V-396455	6020 CALIBRATION STOCK	4 ml	VARIOUS pp	
14988	hydrochloric acid	.5 ml	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-397367

Prepared By: Cousineau, Paul
Description: ICV WARNING
Prep Date: 6/15/2023
Expiration Date: 6/22/2023
Department: Metals
BatchNumber: B-34963
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 06/20/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14990	nitric acid	2.5 ml	neat neat	
14748	6020 ICV (Ag ONLY)	.1 ml	NEAT neat	
14747	6020 ICV	.1 ml	NEAT neat	
14988	hydrochloric acid	.5 ml	neat neat	

Veritech Lot Number: V-397368

Prepared By: Cousineau, Paul
Description: ICB/CCB WARNING
Prep Date: 6/15/2023
Expiration Date: 6/22/2023
Department: Metals
BatchNumber: B-34963
Concentration: 0 ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 06/20/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14990	nitric acid	2.5 ml	neat neat	
14988	hydrochloric acid	.5 ml	neat neat	

Veritech Lot Number: V-397369

Prepared By: Cousineau, Paul
Description: ICSA WARNING
Prep Date: 6/15/2023
Expiration Date: 6/22/2023
Department: Metals
BatchNumber: B-34963
Concentration: various ppb
Final Volume: 50 ml
ApprovedBy: shiamala
ApproveDate: 06/20/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14963	Interferents A	2.5 ml	multi mg/l	
14990	nitric acid	1.25 ml	neat neat	
14988	hydrochloric acid	.25 ml	neat neat	

Veritech Lot Number: V-397370

Prepared By: Cousineau, Paul
Description: LRS WARNING
Prep Date: 6/15/2023
Expiration Date: 6/22/2023
Department: Metals
BatchNumber: B-34963
Concentration: various ppb
Final Volume: 50 ml
ApprovedBy: shiamala
ApproveDate: 06/20/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14990	nitric acid	1.25 ml	neat neat	2.5 %
V-396455	6020 CALIBRATION STOCK	10 ml	VARIOUS pp	
14988	hydrochloric acid	.25 ml	neat neat	
15332	Aluminum	.75 ml	10000 ug/ml	
15330	Potassium	.75 ml	10000 ug/ml	
15333	Sodium	.75 ml	10000 ug/ml	
15334	Calcium	.75 ml	10000 ug/ml	
15331	Magnesium	.75 ml	10000 ug/ml	
15335	Iron	.75 ml	10000 ug/ml	
15306	Copper 1000ppm	.1 ml	1000 mg/l	
15307	Manganese 1000ppm	.1 ml	1000 mg/l	
15304	Lead 1000ppm	.1 ml	1000 mg/l	
15305	Barium 1000ppm	.1 ml	1000 mg/l	
15303	Zinc 1000ppm	.1 ml	1000 mg/l	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-397371

Prepared By:	Cousineau, Paul	Department: Metals	ApprovedBy: shiamala
Description:	CCV WARNING	BatchNumber: B-34963	ApproveDate: 06/20/23
Prep Date:	6/15/2023	Concentration: various ppb	Checked: Yes
Expiration Date:	6/22/2023	Final Volume: 100 ml	

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14990	nitric acid	2.5 ml	neat neat	
V-396455	6020 CALIBRATION STOCK	2 ml	VARIOUS pp	
14988	hydrochloric acid	.5 ml	neat neat	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14638

Description
Silicon

ApprovedBy: shiamala
ApproveDate: 12/27/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLS19-2X	26-102SIX	06/10/22	06/30/23	Balashanthan, Shi	1	500ml	1000	ug/ml

Veritech Control/Receipt Number: 14639

Description
Boron

ApprovedBy: shiamala
ApproveDate: 12/27/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLB9-2X	26-99BX	06/10/22	06/30/23	Balashanthan, Shi	1	500ml	1000	ug/ml

Veritech Control/Receipt Number: 14736

Description
DI H2O

ApprovedBy: janee
ApproveDate: 08/01/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
EVOQUA	1	1	07/18/22	07/17/23	Trivedi, Beena	1			

Veritech Control/Receipt Number: 14747

Description
6020 ICV

ApprovedBy: carmela
ApproveDate: 07/25/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SCP SCIENCE	600-225-112	S220627007	07/25/22	07/30/23	Aliano, Carmela	1		NEAT	NEAT

Veritech Control/Receipt Number: 14748

Description
6020 ICV (Ag ONLY)

ApprovedBy: carmela
ApproveDate: 07/25/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SCP SCIENCE	600-225-113	S220627008	07/25/22	07/30/23	Aliano, Carmela	1		NEAT	NEAT

Veritech Control/Receipt Number: 14963

Description
Interferents A

ApprovedBy: shiamala
ApproveDate: 12/23/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
spex	CL-INT-A1	CL7-219-MYF	11/30/22	11/30/23	Cousineau, Paul	1	125ml	multi	Mg/l

Veritech Control/Receipt Number: 14988

Description
hydrochloric acid

ApprovedBy: jessica
ApproveDate: 04/29/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9539-05	22I2362001	12/15/22	03/28/24	Lopez, Jose	12	2.5L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14990

Description
nitric acid

ApprovedBy: shiamala
ApproveDate: 12/23/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9606-03	22H2562003	12/15/22	07/13/27	Lopez, Jose	18	2.5L	neat	neat

Veritech Control/Receipt Number: 15058

Description
Cerium

ApprovedBy: shiamala
ApproveDate: 01/25/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLCE2-2X	26-111CEX	01/25/23	01/30/24	Balashanthan, Shi	2	500ml	1000	ppm

Veritech Control/Receipt Number: 15216

Description
6020 Cal Std.

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	CL-CAL-1	CL51-322CRY	04/19/23	04/30/24	Cousineau, Paul	1	125ml	multi	ug/ml

Veritech Control/Receipt Number: 15243

Description
nitric acid

ApprovedBy: jean
ApproveDate: 05/05/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9606-03	23B0262006	04/28/23	01/12/28	Cajuste, Pierre	6	2.5L	neat	neat

Veritech Control/Receipt Number: 15302

Description
Selenium 1000ppm

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLSE2-2Y	26-124SEY	05/30/23	05/30/24	Cousineau, Paul	1	125ml	1000	mg/l

Veritech Control/Receipt Number: 15303

Description
Zinc 1000ppm

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLZN2-2Y	27-22ZNY	05/30/23	05/30/24	Cousineau, Paul	1	125ml	1000	mg/l

Veritech Control/Receipt Number: 15304

Description
Lead 1000ppm

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLPB2-2Y	27-05PBY	05/30/23	05/30/24	Cousineau, Paul	1	125ml	1000	mg/l

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15305

Description
Barium 1000ppm

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLBA2-2Y	2725BAY	05/30/23	05/30/24	Cousineau, Paul	1	125 m	1000	mg/l

Veritech Control/Receipt Number: 15306

Description
Copper 1000ppm

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLCU2-2Y	2739CUY	05/30/23	05/30/24	Cousineau, Paul	1	125 m	1000	mg/l

Veritech Control/Receipt Number: 15307

Description
Manganese 1000ppm

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLMN2-2Y	26-157MNY	05/30/23	05/30/24	Cousineau, Paul	1	125 m	1000	mg/l

Veritech Control/Receipt Number: 15330

Description
Potassium

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLK2-3X	BB19-123KX	05/30/23	05/30/24	Cousineau, Paul	1	500ml	10000	ug/ml

Veritech Control/Receipt Number: 15331

Description
Magnesium

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLMG2-3X	AT19-143MGX	05/30/23	05/30/24	Cousineau, Paul	1	500ml	10000	ug/ml

Veritech Control/Receipt Number: 15332

Description
Aluminum

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLAL2-3X	AT19-140ALX	05/30/23	05/30/24	Cousineau, Paul	1	500ml	10000	ug/ml

Veritech Control/Receipt Number: 15333

Description
Sodium

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLNA2-3X	AW19-142NAX	05/30/23	05/30/24	Cousineau, Paul	1	500ml	10000	ug/ml

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15334

Description
Calcium

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLCA2-3X	BD19-108CAX	05/30/23	05/30/24	Cousineau, Paul	1	500ml	10000	ug/ml

Veritech Control/Receipt Number: 15335

Description
Iron

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLFE2-3X	AU19-70FEX	05/30/23	05/30/24	Cousineau, Paul	1	500ml	10000	ug/ml

Veritech Control/Receipt Number: 15340

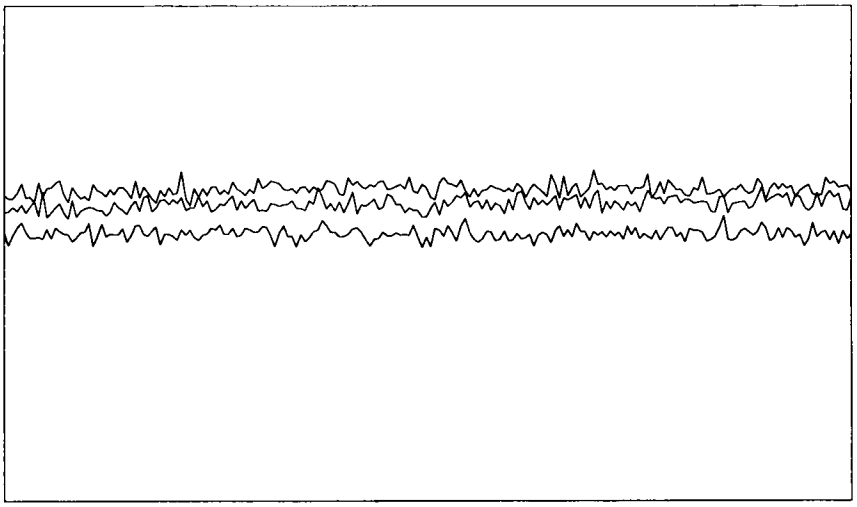
Description
DI H2O

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
EVOQUA	1	1	06/01/23	06/01/24	Cousineau, Paul	1			

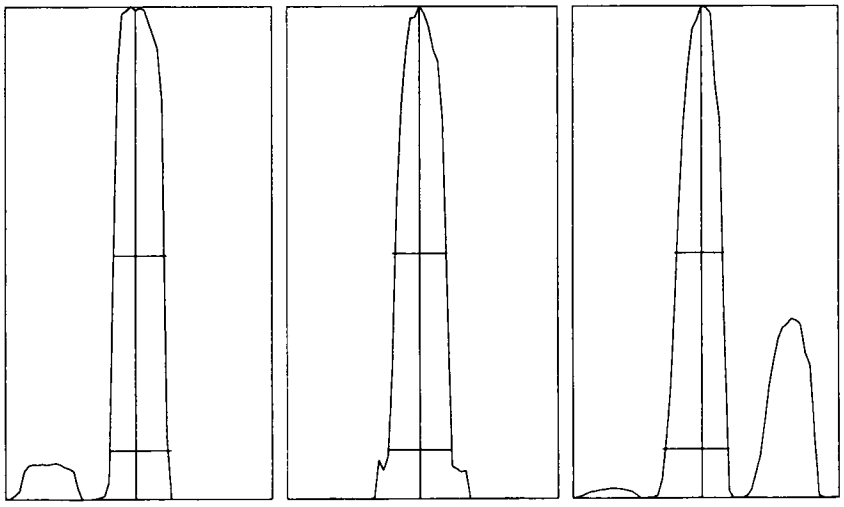
Tune Report

Tune File : ATUNE.U
Comment : TN061523



Integration Time:	0.1000 sec	
Sampling Period:	0.6200 sec	
n:	200	
Oxide:	156/140	0.727
Doubly Charged:	70/140	1.058

m/z	Range	Count	Mean	RSD%	Background
7	50,000	26943.0	26941.4	2.17	8.30
89	200,000	124528.0	125927.0	2.03	9.60
205	100,000	61255.0	59950.4	2.24	143.90
156/140	2	0.685%	0.721%	5.44	
70/140	2	1.060%	1.059%	4.93	



m/z:	7	89	
Height:	26,761	128,962	5
Axis:	7.00	89.00	2
W-50%:	0.60	0.60	
W-10%:	0.700	0.700	(

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Generated : Jun 15, 2023 09:38:31
Printed : Jun 15, 2023 09:38:33

Tune Report

Tune File : ATUNE.U
Comment : TN061523

Tuning Parameters

===Plasma Condition===			===Ion Lenses===			===Q-Pole Parameters===		
RF Power	1500	W	Extract 1	0	V	AMU Gain	127	
RF Matching	1.05	V	Extract 2	-170	V	AMU Offset	128	
Smpl Depth	10.5	mm	Omega Bias	-80	V	Axis Gain	0.9995	
Torch-H	-0.7	mm	Omega Lens	9	V	Axis Offset	0.07	
Torch-V	0.7	mm	Cell Entrance	-40	V	QP Bias	-3	V
Carrier Gas	0.55	L/min	Cell Exit	-60	V			
Dilution Mode	ON		Deflect	13	V	===Detector Parameters===		
Dilution Gas	0.5	L/min	Plate Bias	-40	V	Discriminator	4.6	mV
Optional Gas	---	%	===Octopole Parameters===			Analog HV	1825	V
Nebulizer Pump	0.1	rps	OctP RF	190	V	Pulse HV	1718	V
Sample Pump	---	rps	OctP Bias	-8	V			
S/C Temp	2	degC						

===Reaction Cell===								
Reaction Mode	OFF							
H2 Gas	---	mL/min	He Gas	0	mL/min	Optional Gas	---	%

Generated : Jun 15, 2023 09:38:31
Printed : Jun 15, 2023 09:38:36

C:\ICPMH\1\7500\QCTUNE.D

QC Tune Report

Data File: C:\ICPMH\1\7500\QCTUNE.D
Date Acquired: 15 Jun 2023 09:55:21 am
Operator: PC
Misc Info:
Vial Number: 4
Current Method: C:\ICPMH\1\METHODS\TN6020.m

Minimum Response(CPS)

Element	Actual	Required	Flag
7 Li	2918660.00	0.00	
59 Co	7836570.00	0.00	
115 In	10993700.00	0.00	
205 Tl	6015620.00	0.00	

RSD (%)

Element	Actual	Required	Flag
7 Li	1.20	5.00	
59 Co	0.88	5.00	
115 In	0.52	5.00	
205 Tl	0.40	5.00	

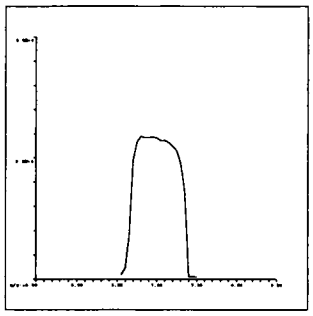
Ion Ratio

Element	Actual	Required	Flag
7 Li			
59 Co			
115 In			
205 Tl			

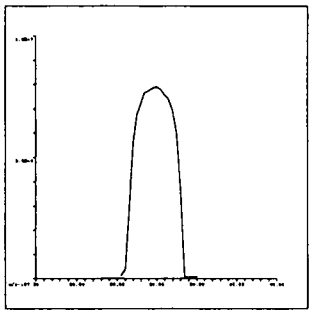
Maximum Bkg. Count(CPS)

Element	Actual	Required	Flag

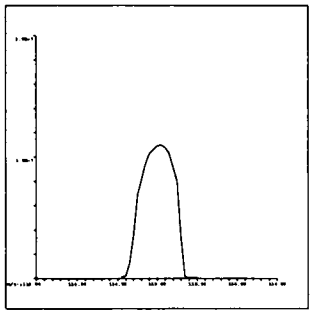
C:\ICPMH\1\7500\QCTUNE.D



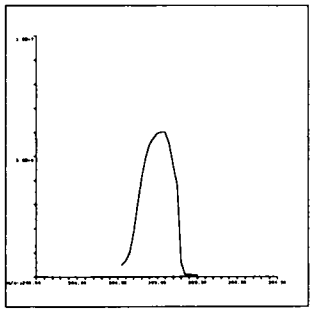
7 Li
Mass Calib.
Actual: 6.90
Required: 6.90-7.10
Flag:
Peak Width
Actual: 0.70
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 58.95
Required: 58.90-59.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:



115 In
Mass Calib.
Actual: 115.05
Required: 114.90-115.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:



205 Tl
Mass Calib.
Actual: 205.05
Required: 204.90-205.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:

QC Tune Result:Pass

Calibration Blank Report

File S061523A
B-298498
QC-107860

Sample Name	**RINSE**
Data File Name	**001CALB.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T10:17:55-04:00**
Type	**CalBlk**
VialNumber	**1102**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	

Run ok

Report TAL
LRS and for Ag
Ag LR = 100 ppb

Rem Mn for 38537-001 tdc (LR)
QC only

Rerun 38546-014 for Ca (LR)

[signature] 6/15/23

QC Analyte Table

Element	m/z	ISTD	Tune Step	CPS	%RSD
Be	9	165	1	117	32.95
Na	23	115	2	33700	2.21
Mg	24	115	2	431	18.56
Al	27	115	2	81	41.37
K	39	115	2	37942	0.85
Ca	44	115	2	399	10.78
V	51	115	2	77	28.51
Cr	52	115	2	1421	11.57
Mn	55	115	2	738	12.44
Fe	56	115	2	22912	0.81
Co	59	115	2	578	9.33
Ni	60	115	2	229	14.95
Cu	65	115	2	1241	4.25
Zn	66	115	2	521	9.94
As	75	115	2	13	30.11
Se	78	115	2	89	15.08
Kr	83	115	1	320	4.17
Mo	95	115	1	334	12.62
Ag	107	115	1	1117	8.70
Cd	111	115	1	31	15.57
Sb	121	115	1	6519	2.57
Ba	137	159	1	212	22.56
Tl	205	165	1	2655	5.89
(Pb)	206	165	1	5948	1.04
(Pb)	207	165	1	5248	2.40
Pb	208	165	1	12275	1.57

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD
Sc	45	1	1496368	1.61
Sc	45	2	55075	2.78
In	115	1	1914316	0.42
In	115	2	396369	1.17
Tb	159	1	2230563	0.28
Tb	159	2	1088084	0.54
Ho	165	1	2102477	1.07
Ho	165	2	1071538	1.34

TuneStep	TuneFile
1	nogas.u
2	he.u

Calibration Blank Report

Sample Name	**RINSE**
Data File Name	**002CALB.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T10:22:24-04:00**
Type	**CalBlk**
VialNumber	**1102**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	

QC Analyte Table

Element	m/z	ISTD	Tune Step	CPS	%RSD
Be	9	165	1	154	26.37
Na	23	115	2	29252	1.86
Mg	24	115	2	497	7.01
Al	27	115	2	122	9.58
K	39	115	2	38039	1.27
Ca	44	115	2	326	4.26
V	51	115	2	108	15.57
Cr	52	115	2	1363	2.33
Mn	55	115	2	700	3.43
Fe	56	115	2	25762	3.82
Co	59	115	2	371	6.80
Ni	60	115	2	218	9.23
Cu	65	115	2	1426	6.55
Zn	66	115	2	601	6.93
As	75	115	2	16	18.91
Se	78	115	2	91	10.98
Kr	83	115	1	394	1.95
Mo	95	115	1	346	6.84
Ag	107	115	1	973	10.45
Cd	111	115	1	34	10.60
Sb	121	115	1	4135	2.82
Ba	137	159	1	279	25.56
Tl	205	165	1	2188	1.92
(Pb)	206	165	1	6027	2.24
(Pb)	207	165	1	5214	3.56
Pb	208	165	1	12052	1.66

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD
Sc	45	1	1528746	0.56
Sc	45	2	54828	1.65
In	115	1	1934330	1.36
In	115	2	398418	1.85
Tb	159	1	2241110	0.13
Tb	159	2	1087771	1.30
Ho	165	1	2130666	0.14
Ho	165	2	1067458	1.14

TuneStep	TuneFile
1	nogas.u
2	he.u

Calibration Blank Report

Sample Name	**CalBlk V-397361**
Data File Name	**003CALB.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T10:26:55-04:00**
Type	**CalBlk**
VialNumber	**2101**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	

QC Analyte Table

Element	m/z	ISTD	Tune Step	CPS	%RSD
Be	9	165	1	128	23.67
Na	23	115	2	34741	1.26
Mg	24	115	2	551	10.91
Al	27	115	2	193	17.50
K	39	115	2	34012	1.93
Ca	44	115	2	327	5.68
V	51	115	2	1010	13.19
Cr	52	115	2	681	4.75
Mn	55	115	2	254	9.83
Fe	56	115	2	20116	1.95
Co	59	115	2	42	25.38
Ni	60	115	2	168	16.18
Cu	65	115	2	3338	1.95
Zn	66	115	2	909	9.96
As	75	115	2	29	22.83
Se	78	115	2	75	21.12
Kr	83	115	1	394	18.54
Mo	95	115	1	310	6.54
Ag	107	115	1	404	3.89
Cd	111	115	1	40	17.35
Sb	121	115	1	7104	4.78
Ba	137	159	1	689	10.27
Tl	205	165	1	1650	3.55
(Pb)	206	165	1	5334	3.39
(Pb)	207	165	1	4579	2.18
Pb	208	165	1	10630	2.46

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD
Sc	45	1	1616505	0.68
Sc	45	2	53187	0.59
In	115	1	2034272	1.60
In	115	2	383032	0.95
Tb	159	1	2375564	0.37
Tb	159	2	1093392	0.47
Ho	165	1	2250620	0.40
Ho	165	2	1077785	0.62

TuneStep	TuneFile
1	nogas.u
2	he.u

Calibration Standard Report

Sample Name	**CalStd1 V-397362**
Data File Name	**004CALS.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T10:31:27-04:00**
Type	**CalStd**
VialNumber	**2102**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	CPS	%RSD
Be	9	165	1	3447	2.79
Na	23	115	2	83166	1.77
Mg	24	115	2	26637	1.12
Al	27	115	2	2925	2.14
K	39	115	2	63641	0.47
Ca	44	115	2	1984	1.54
V	51	115	2	5387	3.28
Cr	52	115	2	7749	1.39
Mn	55	115	2	3595	3.55
Fe	56	115	2	490636	1.42
Co	59	115	2	10048	3.01
Ni	60	115	2	2856	3.11
Cu	65	115	2	7774	2.27
Zn	66	115	2	1806	7.20
As	75	115	2	663	2.80
Se	78	115	2	282	4.67
Kr	83	115	1	386	14.27
Mo	95	115	1	9244	1.20
Ag	107	115	1	21996	2.54
Cd	111	115	1	4047	1.88
Sb	121	115	1	22417	2.18
Ba	137	159	1	6929	1.03
Tl	205	165	1	30843	1.30
(Pb)	206	165	1	15039	2.21
(Pb)	207	165	1	12777	1.40
Pb	208	165	1	30914	1.71

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1610008	0.82	1616505	99.6	70	130	
Sc	45	2	52705	2.17	53187	99.1	70	130	
In	115	1	2028585	0.71	2034272	99.7	70	130	
In	115	2	384087	1.08	383032	100.3	70	130	
Tb	159	1	2388217	0.67	2375564	100.5	70	130	
Tb	159	2	1098485	1.53	1093392	100.5	70	130	
Ho	165	1	2272268	0.78	2250620	101.0	70	130	
Ho	165	2	1083993	1.47	1077785	100.6	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Calibration Standard Report

Sample Name	**CalStd2 V-397363**
Data File Name	**005CALS.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T10:35:57-04:00**
Type	**CalStd**
VialNumber	**2103**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	CPS	%RSD
Be	9	165	1	32696	0.68
Na	23	115	2	567696	0.95
Mg	24	115	2	253727	1.46
Al	27	115	2	25000	1.56
K	39	115	2	315458	0.97
Ca	44	115	2	15049	2.76
V	51	115	2	44214	2.37
Cr	52	115	2	56218	0.97
Mn	55	115	2	27839	1.22
Fe	56	115	2	4470366	0.08
Co	59	115	2	93394	0.26
Ni	60	115	2	25570	2.51
Cu	65	115	2	38431	1.96
Zn	66	115	2	8958	1.81
As	75	115	2	6196	2.36
Se	78	115	2	1982	4.62
Kr	83	115	1	402	12.85
Mo	95	115	1	86647	0.43
Ag	107	115	1	207777	0.89
Cd	111	115	1	38409	1.04
Sb	121	115	1	161990	1.00
Ba	137	159	1	64940	1.65
Tl	205	165	1	285659	0.62
(Pb)	206	165	1	102061	1.54
(Pb)	207	165	1	85694	0.62
Pb	208	165	1	209577	0.57

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1630736	0.26	1616505	100.9	70	130	
Sc	45	2	53152	0.86	53187	99.9	70	130	
In	115	1	2030412	1.22	2034272	99.8	70	130	
In	115	2	383825	0.77	383032	100.2	70	130	
Tb	159	1	2392789	0.80	2375564	100.7	70	130	
Tb	159	2	1108918	0.71	1093392	101.4	70	130	
Ho	165	1	2286953	1.39	2250620	101.6	70	130	
Ho	165	2	1095564	0.80	1077785	101.6	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Calibration Standard Report

Sample Name	**CalStd3 V-397364**
Data File Name	**006CALS.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T10:40:27-04:00**
Type	**CalStd**
VialNumber	**2104**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	CPS	%RSD
Be	9	165	1	66567	1.22
Na	23	115	2	1193949	1.10
Mg	24	115	2	512141	0.60
Al	27	115	2	51233	0.96
K	39	115	2	605061	1.08
Ca	44	115	2	30109	2.37
V	51	115	2	88908	0.29
Cr	52	115	2	112231	1.42
Mn	55	115	2	55275	1.18
Fe	56	115	2	8947770	0.29
Co	59	115	2	188917	0.46
Ni	60	115	2	51975	1.58
Cu	65	115	2	74379	1.48
Zn	66	115	2	18179	1.11
As	75	115	2	12604	1.36
Se	78	115	2	3874	0.62
Kr	83	115	1	382	6.77
Mo	95	115	1	175329	1.17
Ag	107	115	1	422404	1.50
Cd	111	115	1	79163	1.67
Sb	121	115	1	326570	0.70
Ba	137	159	1	131981	0.38
Tl	205	165	1	581881	0.67
(Pb)	206	165	1	201952	1.11
(Pb)	207	165	1	169811	0.83
Pb	208	165	1	420214	1.61

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1637546	0.68	1616505	101.3	70	130	
Sc	45	2	52885	2.23	53187	99.4	70	130	
In	115	1	2026248	0.99	2034272	99.6	70	130	
In	115	2	385668	1.83	383032	100.7	70	130	
Tb	159	1	2372614	0.57	2375564	99.9	70	130	
Tb	159	2	1109034	0.54	1093392	101.4	70	130	
Ho	165	1	2249153	0.27	2250620	99.9	70	130	
Ho	165	2	1097517	0.60	1077785	101.8	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Calibration Standard Report

Sample Name	**CalStd4 V-397365**
Data File Name	**007CALS.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T10:44:58-04:00**
Type	**CalStd**
VialNumber	**2105**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	CPS	%RSD
Be	9	165	1	327209	0.74
Na	23	115	2	5722267	0.32
Mg	24	115	2	2583820	1.02
Al	27	115	2	250808	1.02
K	39	115	2	2892531	1.35
Ca	44	115	2	146924	0.82
V	51	115	2	438462	0.48
Cr	52	115	2	551783	0.98
Mn	55	115	2	271212	1.64
Fe	56	115	2	43530742	0.69
Co	59	115	2	931602	0.72
Ni	60	115	2	253703	0.36
Cu	65	115	2	350541	1.30
Zn	66	115	2	85764	1.61
As	75	115	2	61377	1.16
Se	78	115	2	19270	1.23
Kr	83	115	1	372	15.65
Mo	95	115	1	878099	1.36
Ag	107	115	1	2223552	0.77
Cd	111	115	1	390911	0.37
Sb	121	115	1	1719860	0.95
Ba	137	159	1	657980	0.58
Tl	205	165	1	3147286	0.23
(Pb)	206	165	1	978791	0.48
(Pb)	207	165	1	830923	0.96
Pb	208	165	1	2226478	0.56

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1676038	0.32	1616505	103.7	70	130	
Sc	45	2	54944	1.01	53187	103.3	70	130	
In	115	1	2004830	0.97	2034272	98.6	70	130	
In	115	2	382544	0.66	383032	99.9	70	130	
Tb	159	1	2378724	0.58	2375564	100.1	70	130	
Tb	159	2	1129202	0.92	1093392	103.3	70	130	
Ho	165	1	2270843	0.78	2250620	100.9	70	130	
Ho	165	2	1119251	0.38	1077765	103.8	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Calibration Standard Report

Sample Name	**CalStd5 V-397366**
Data File Name	**008CALS.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T10:49:21-04:00**
Type	**CalStd**
VialNumber	**2106**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	CPS	%RSD
Be	9	165	1	662996	0.05
Na	23	115	2	11312382	0.39
Mg	24	115	2	5121704	1.18
Al	27	115	2	502214	0.68
K	39	115	2	5691868	0.59
Ca	44	115	2	296335	0.70
V	51	115	2	865753	0.73
Cr	52	115	2	1101693	0.58
Mn	55	115	2	544438	0.54
Fe	56	115	2	87193663	0.41
Co	59	115	2	1931467	1.14
Ni	60	115	2	502296	1.59
Cu	65	115	2	689866	1.38
Zn	66	115	2	169078	2.40
As	75	115	2	124161	1.14
Se	78	115	2	38181	1.53
Kr	83	115	1	437	20.24
Mo	95	115	1	1847500	1.11
Ag	107	115	1	4379720	0.55
Cd	111	115	1	779816	0.46
Sb	121	115	1	3405060	0.26
Ba	137	159	1	1421261	0.98
Tl	205	165	1	6170735	0.64
(Pb)	206	165	1	2099570	0.27
(Pb)	207	165	1	1787984	0.96
Pb	208	165	1	4353516	0.14

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1654484	0.21	1616505	102.3	70	130	
Sc	45	2	54140	1.10	53187	101.8	70	130	
In	115	1	1964276	0.57	2034272	96.6	70	130	
In	115	2	382458	0.81	383032	99.9	70	130	
Tb	159	1	2368318	0.69	2375564	99.7	70	130	
Tb	159	2	1122693	1.19	1093392	102.7	70	130	
Ho	165	1	2250167	0.47	2250620	100.0	70	130	
Ho	165	2	1112546	1.28	1077785	103.2	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Initial Calibration Verification (ICV) - US EPA Method 6020

Sample Name	**ICV V-397367**
Data File Name	**009_ICV.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T10:53:40-04:00**
Type	**6-ICV**
VialNumber	**2108**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	Conc	Units	Expected	CPS	%RSD	%Rec	%QC Low	%QC High	QC Flag
Be	9	165	1	48.78	ppb	50	326548	0.67	97.56	90	110	
Na	23	115	2	4872.09	ppb	5000	5579434	0.68	97.44	90	110	
Mg	24	115	2	5031.05	ppb	5000	2599982	0.86	100.62	90	110	
Al	27	115	2	5038.92	ppb	5000	849355	1.14	100.78	90	110	
K	39	115	2	4927.93	ppb	5000	2848538	1.23	98.56	90	110	
Ca	44	115	2	4892.03	ppb	5000	145918	0.94	97.84	90	110	
V	51	115	2	48.15	ppb	50	429107	0.59	96.30	90	110	
Cr	52	115	2	49.01	ppb	50	544337	0.21	98.01	90	110	
Mn	55	115	2	49.47	ppb	50	271236	1.09	98.95	90	110	
Fe	56	115	2	4903.72	ppb	5000	43072603	0.48	98.07	90	110	
Co	59	115	2	48.18	ppb	50	930499	0.36	96.36	90	110	
Ni	60	115	2	49.74	ppb	50	252284	0.47	99.48	90	110	
Cu	65	115	2	49.77	ppb	50	348409	0.40	99.55	90	110	
Zn	66	115	2	49.60	ppb	50	85094	1.09	99.21	90	110	
As	75	115	2	49.45	ppb	50	61726	1.34	98.91	90	110	
Se	78	115	2	50.03	ppb	50	3921	0.38	100.06	90	110	
Mo	95	115	1	47.38	ppb	50	877094	1.68	94.75	90	110	
Ag	107	115	1	9.64	ppb	10	428649	0.98	96.36	90	110	
Cd	111	115	1	49.25	ppb	50	388951	0.73	98.50	90	110	
Sb	121	115	1	49.26	ppb	50	1702992	0.74	98.53	90	110	
Ba	137	159	1	45.84	ppb	50	645787	0.93	91.67	90	110	
Tl	205	165	1	48.73	ppb	50	3054398	0.83	97.46	90	110	
Pb	208	165	1	49.75	ppb	50	2204676	0.85	99.49	90	110	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1570300	0.83	1616505	97.1	70	130	
Sc	45	2	51074	0.58	53187	96.0	70	130	
In	115	1	1996722	0.89	2034272	98.2	70	130	
In	115	2	385270	0.71	383032	100.6	70	130	
Tb	159	1	2385423	0.40	2375564	100.4	70	130	
Tb	159	2	1138637	0.45	1093392	104.1	70	130	
Ho	165	1	2281816	1.62	2250620	101.4	70	130	
Ho	165	2	1117888	0.32	1077785	103.7	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Low Level Initial/Continuing Calibration Verification (ICV/CCV) - US EPA Method 6020

Sample Name	**LLICV V-397372**
Data File Name	**010_LCS.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T10:58:04-04:00**
Type	**6-LCS**
VialNumber	**2110**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	Units	ExpectedValue	%Recovery	%QC Low	%QC High	QC Flag
Be	9	165	1	0.96	ppb	1	96.2	80	120	
Na	23	115	2	455.94	ppb	500	91.2	80	120	
Mg	24	115	2	466.05	ppb	500	93.2	80	120	
Al	27	115	2	481.85	ppb	500	96.4	80	120	
K	39	115	2	461.95	ppb	500	96.4	80	120	
Ca	44	115	2	467.82	ppb	500	93.6	80	120	
V	51	115	2	0.96	ppb	1	87.7	80	120	
Cr	52	115	2	1.88	ppb	1	93.6	80	120	
Mn	55	115	2	5.58	ppb	6	93.0	80	120	
Fe	56	115	2	479.81	ppb	500	96.0	80	120	
Co	59	115	2	1.88	ppb	2	92.1	80	120	
Ni	60	115	2	2.90	ppb	2	93.6	80	120	
Cu	65	115	2	9.38	ppb	10	93.8	80	120	
Zn	66	115	2	18.92	ppb	20	94.6	80	120	
As	75	115	2	0.97	ppb	1	93.2	80	120	
Se	78	115	2	9.08	ppb	20	90.8	80	120	
Mo	95	115	1	1.08	ppb	1	103.4	80	120	
Ag	107	115	1	2.89	ppb	1	89.1	80	120	
Cd	111	115	1	1.88	ppb	1	94.2	80	120	
Sb	121	115	1	3.77	ppb	4	94.2	80	120	
Ba	137	159	1	4.38	ppb	2	87.6	80	120	
Tl	205	165	1	1.80	ppb	1	89.8	80	120	
Pb	208	165	1	1.75	ppb	2	87.3	80	120	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1518522	1.47	1616505	93.9	70	130	
Sc	45	2	50712	0.93	53187	95.3	70	130	
In	115	1	2000406	0.64	2034272	98.3	70	130	
In	115	2	388470	0.39	383032	101.4	70	130	
Tb	159	1	2358131	0.27	2375564	99.3	70	130	
Tb	159	2	1118574	1.13	1093392	102.3	70	130	
Ho	165	1	2252563	0.83	2250620	100.1	70	130	
Ho	165	2	1108389	1.49	1077785	102.8	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Initial Calibration Blank (ICB) - US EPA Method 6020

Sample Name	**ICB V-397368**
Data File Name	**011_ICB.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T11:02:36-04:00**
Type	**6-ICB**
VialNumber	**1202**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	Units	QC High	QC Flag
Be	9	165	1	0.01	ppb	0.5	
Na	23	115	2	-13.27	ppb	250	
Mg	24	115	2	-0.25	ppb	250	
Al	27	115	2	-0.57	ppb	250	
K	39	115	2	-4.09	ppb	250	
Ca	44	115	2	-3.52	ppb	250	
V	51	115	2	-0.02	ppb	0.5	
Cr	52	115	2	0.04	ppb	1	
Mn	55	115	2	0.00	ppb	3	
Fe	56	115	2	4.55	ppb	250	
Co	59	115	2	0.00	ppb	1	
Ni	60	115	2	0.00	ppb	1.5	
Cu	65	115	2	-0.10	ppb	5	
Zn	66	115	2	-0.20	ppb	10	
As	75	115	2	0.01	ppb	0.5	
Se	78	115	2	0.00	ppb	5	
Mo	95	115	1	0.05	ppb	0.5	
Ag	107	115	1	0.00	ppb	0.5	
Cd	111	115	1	0.00	ppb	1	
Sb	121	115	1	-0.08	ppb	2	
Ba	137	159	1	-0.03	ppb	2.5	
Tl	205	165	1	0.01	ppb	1	
Pb	208	165	1	-0.05	ppb	1	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1547093	1.12	1616505	95.7	70	130	
Sc	45	2	51138	1.01	53187	96.1	70	130	
In	115	1	2009120	0.78	2034272	98.8	70	130	
In	115	2	380410	1.03	383032	99.3	70	130	
Tb	159	1	2360055	0.64	2375564	99.3	70	130	
Tb	159	2	1099783	0.58	1093392	100.6	70	130	
Ho	165	1	2233137	0.82	2250620	99.2	70	130	
Ho	165	2	1085430	0.46	1077785	100.7	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Interference Check Sample A (ICS-A) - US EPA Method 6020

Sample Name	**ICSA V-397369**
Data File Name	**012ICSA.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T11:07:06-04:00**
Type	**6-ICSA**
VialNumber	**2107**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	Units	QC High	QC Flag
Be	9	165	1	0.03	ppb	1	
Na	23	115	2	123852.64	ppb	162500	
Mg	24	115	2	49473.64	ppb	65000	
Al	27	115	2	52804.87	ppb	65000	
K	39	115	2	50707.85	ppb	65000	
Ca	44	115	2	154738.75	ppb	195000	
V	51	115	2	-0.07	ppb	1	
Cr	52	115	2	0.98	ppb	2	
Mn	55	115	2	1.58	ppb	6	
Fe	56	115	2	123599.73	ppb	162500	
Co	59	115	2	1.06	ppb	2	
Ni	60	115	2	1.24	ppb	3	
Cu	65	115	2	1.64	ppb	10	
Zn	66	115	2	1.16	ppb	20	
As	75	115	2	0.21	ppb	1	
Se	78	115	2	0.17	ppb	10	
Mo	95	115	1	992.58	ppb	1300	
Ag	107	115	1	0.04	ppb	1	
Cd	111	115	1	0.75	ppb	2	
Sb	121	115	1	0.02	ppb	1	
Ba	137	159	1	0.72	ppb	5	
Tl	205	165	1	0.00	ppb	2	
Pb	208	165	1	0.75	ppb	2	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1659111	2.02	1616505	102.6	70	130	
Sc	45	2	52741	0.87	53187	99.2	70	130	
In	115	1	1848612	0.19	2034272	90.9	70	130	
In	115	2	351136	0.50	383032	91.7	70	130	
Tb	159	1	2288329	0.72	2375564	96.3	70	130	
Tb	159	2	1073655	0.90	1093392	98.2	70	130	
Ho	165	1	2200633	0.81	2250620	97.8	70	130	
Ho	165	2	1061745	1.09	1077785	98.5	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**RINSE**
Data File Name	**013SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T11:11:32-04:00**
Type	**Sample**
VialNumber	**1101**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.00	0.00	ppb	146	29.89	550	
Na	23	115	2	-3.30	-3.30	ppb	32194	1.61	220000	
Mg	24	115	2	1.32	1.32	ppb	1277	2.94	220000	
Al	27	115	2	1.39	1.39	ppb	442	6.59	181500	
K	39	115	2	-1.87	-1.87	ppb	34210	0.84	220000	
Ca	44	115	2	0.32	0.32	ppb	349	10.57	220000	
V	51	115	2	-0.10	-0.10	ppb	129	15.15	550	
Cr	52	115	2	0.07	0.07	ppb	1515	4.74	550	
Mn	55	115	2	0.08	0.08	ppb	738	11.20	2750	
Fe	56	115	2	20.67	20.67	ppb	208251	2.06	220000	
Co	59	115	2	0.01	0.01	ppb	188	17.87	550	
Ni	60	115	2	0.02	0.02	ppb	259	27.50	550	
Cu	65	115	2	0.01	0.01	ppb	3560	9.59	2750	
Zn	66	115	2	-0.17	-0.17	ppb	641	13.60	2750	
As	75	115	2	-0.01	-0.01	ppb	20	8.64	550	
Se	78	115	2	-0.01	-0.01	ppb	77	7.22	2750	
Mo	95	115	1	0.86	0.86	ppb	15910	5.22	550	
Ag	107	115	1	0.00	0.00	ppb	509	15.73	550	
Cd	111	115	1	0.00	0.00	ppb	47	24.40	550	
Sb	121	115	1	-0.15	-0.15	ppb	1885	0.27	550	
Ba	137	159	1	-0.01	-0.01	ppb	472	10.94	2750	
Tl	205	165	1	0.01	0.01	ppb	1946	0.99	550	
Pb	208	165	1	0.01	0.01	ppb	10901	3.22	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1454158	0.96	1616505	90.0	70	130	
Sc	45	2	50516	2.76	53187	95.0	70	130	
In	115	1	1960898	0.66	2034272	96.4	70	130	
In	115	2	397675	1.13	383032	103.8	70	130	
Tb	159	1	2314756	1.10	2375564	97.4	70	130	
Tb	159	2	1113283	0.10	1093392	101.8	70	130	
Ho	165	1	2195634	0.84	2250620	97.6	70	130	
Ho	165	2	1102826	0.97	1077785	102.3	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**LRS V-397370**
Data File Name	**014SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T11:16:02-04:00**
Type	**Sample**
VialNumber	**2109**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	497.88	497.88	ppb	2966388	1.01	550	
Na	23	115	2	197518.96	197518.96	ppb	220725074	1.18	220000	
Mg	24	115	2	196571.30	196571.30	ppb	99721972	1.37	220000	
Al	27	115	2	176420.19	176420.19	ppb	29189515	1.47	181500	
K	39	115	2	209633.74	209633.74	ppb	117580166	1.94	220000	
Ca	44	115	2	209009.00	209009.00	ppb	6107502	2.26	220000	
V	51	115	2	535.15	535.15	ppb	4672519	1.27	550	
Cr	52	115	2	516.86	516.86	ppb	5630311	1.18	550	
Mn	55	115	2	2552.58	2552.58	ppb	13727312	1.16	2750	
Fe	56	115	2	191156.82	191156.82	ppb	1647747798	0.44	220000	
Co	59	115	2	471.88	471.88	ppb	8947364	0.23	550	
Ni	60	115	2	480.15	480.15	ppb	2389561	0.89	550	
Cu	65	115	2	2491.70	2491.70	ppb	16962923	0.36	2750	
Zn	66	115	2	2476.65	2476.65	ppb	4127297	0.74	2750	
As	75	115	2	498.81	498.81	ppb	610985	0.70	550	
Se	78	115	2	2495.45	2495.45	ppb	188414	1.06	2750	
Mo	95	115	1	499.60	499.60	ppb	8141831	1.25	550	
Ag	107	115	1	312.44	312.44	ppb	12227372	1.16	550	
Cd	111	115	1	478.18	478.18	ppb	3325189	0.75	550	
Sb	121	115	1	475.98	475.98	ppb	14435660	0.63	550	
Ba	137	159	1	2340.30	2340.30	ppb	29559360	0.41	2750	
Tl	205	165	1	460.52	460.52	ppb	25686169	0.27	550	
Pb	208	165	1	2388.46	2388.46	ppb	93800720	0.91	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1643838	0.54	1616505	101.7	70	130	
Sc	45	2	62021	1.74	53187	116.6	70	130	
In	115	1	1758254	0.40	2034272	86.4	70	130	
In	115	2	378254	0.39	383032	98.8	70	130	
Tb	159	1	2140737	0.18	2375564	90.1	70	130	
Tb	159	2	1051665	0.37	1093392	96.2	70	130	
Ho	165	1	2031420	0.53	2250620	90.3	70	130	
Ho	165	2	1042107	0.60	1077785	96.7	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**RINSE**
Data File Name	**015SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T11:20:15-04:00**
Type	**Sample**
VialNumber	**1102**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.08	0.08	ppb	583	6.36	550	
Na	23	115	2	6.41	6.41	ppb	44887	0.58	220000	
Mg	24	115	2	0.62	0.62	ppb	931	3.44	220000	
Al	27	115	2	0.25	0.25	ppb	252	6.25	181500	
K	39	115	2	3.76	3.76	ppb	38637	1.32	220000	
Ca	44	115	2	-1.66	-1.66	ppb	297	22.13	220000	
V	51	115	2	-0.10	-0.10	ppb	116	23.14	550	
Cr	52	115	2	0.06	0.06	ppb	1487	7.63	550	
Mn	55	115	2	0.09	0.09	ppb	796	1.89	2750	
Fe	56	115	2	14.49	14.49	ppb	156653	0.92	220000	
Co	59	115	2	0.01	0.01	ppb	247	6.76	550	
Ni	60	115	2	0.01	0.01	ppb	260	8.41	550	
Cu	65	115	2	-0.09	-0.09	ppb	2869	2.67	2750	
Zn	66	115	2	-0.14	-0.14	ppb	717	4.65	2750	
As	75	115	2	0.14	0.14	ppb	211	6.21	550	
Se	78	115	2	0.84	0.84	ppb	149	22.39	2750	
Mo	95	115	1	0.44	0.44	ppb	7955	1.93	550	
Ag	107	115	1	3.69	3.69	ppb	155696	10.65	550	
Cd	111	115	1	0.01	0.01	ppb	101	13.20	550	
Sb	121	115	1	0.75	0.75	ppb	31043	2.23	550	
Ba	137	159	1	0.00	0.00	ppb	590	6.37	2750	
Tl	205	165	1	0.13	0.13	ppb	8609	2.47	550	
Pb	208	165	1	0.11	0.11	ppb	14118	3.74	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1441992	0.85	1616505	89.2	70	130	
Sc	45	2	52840	0.97	53187	99.3	70	130	
In	115	1	1892461	0.82	2034272	93.0	70	130	
In	115	2	409376	0.96	383032	106.9	70	130	
Tb	159	1	2157675	0.27	2375564	90.6	70	130	
Tb	159	2	1104238	0.46	1093392	101.0	70	130	
Ho	165	1	2044486	0.22	2250620	90.8	70	130	
Ho	165	2	1086455	0.38	1077785	100.8	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**RINSE**
Data File Name	**016SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T11:24:45-04:00**
Type	**Sample**
VialNumber	**1102**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.04	0.04	ppb	382	17.23	550	
Na	23	115	2	3.77	3.77	ppb	40898	0.59	220000	
Mg	24	115	2	4.18	4.18	ppb	2831	2.38	220000	
Al	27	115	2	3.42	3.42	ppb	803	7.29	181500	
K	39	115	2	3.16	3.16	ppb	37550	0.37	220000	
Ca	44	115	2	-0.02	-0.02	ppb	342	9.26	220000	
V	51	115	2	-0.09	-0.09	ppb	212	18.07	550	
Cr	52	115	2	0.07	0.07	ppb	1561	1.07	550	
Mn	55	115	2	0.14	0.14	ppb	1063	5.02	2750	
Fe	56	115	2	10.38	10.38	ppb	116114	2.76	220000	
Co	59	115	2	0.02	0.02	ppb	457	7.72	550	
Ni	60	115	2	0.02	0.02	ppb	277	7.23	550	
Cu	65	115	2	-0.01	-0.01	ppb	3437	2.80	2750	
Zn	66	115	2	-0.13	-0.13	ppb	732	10.38	2750	
As	75	115	2	0.03	0.03	ppb	75	11.15	550	
Se	78	115	2	0.34	0.34	ppb	106	17.25	2750	
Mo	95	115	1	0.14	0.14	ppb	2753	3.09	550	
Ag	107	115	1	1.81	1.81	ppb	75142	10.65	550	
Cd	111	115	1	0.01	0.01	ppb	111	10.73	550	
Sb	121	115	1	0.07	0.07	ppb	8720	2.18	550	
Ba	137	159	1	0.02	0.02	ppb	821	8.86	2750	
Tl	205	185	1	0.03	0.03	ppb	3324	6.61	550	
Pb	208	165	1	0.09	0.09	ppb	13323	3.17	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1435302	0.28	1616505	88.8	70	130	
Sc	45	2	51694	1.36	53187	97.2	70	130	
In	115	1	1855631	0.45	2034272	91.2	70	130	
In	115	2	401624	0.60	383032	104.9	70	130	
Tb	159	1	2126411	0.66	2375564	89.5	70	130	
Tb	159	2	1097180	0.71	1093392	100.3	70	130	
Ho	165	1	2031207	1.05	2250620	90.3	70	130	
Ho	165	2	1079181	0.44	1077785	100.1	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Printed at: 11:26 AM on:6/15/2023

Sample Report

Sample Name	**RINSE**
Data File Name	**017SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T11:33:17-04:00**
Type	**Sample**
VialNumber	**1102**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.02	0.02	ppb	259	5.20	550	
Na	23	115	2	-0.09	-0.09	ppb	35986	0.39	220000	
Mg	24	115	2	2.67	2.67	ppb	1997	4.77	220000	
Al	27	115	2	1.70	1.70	ppb	498	14.55	181500	
K	39	115	2	2.80	2.80	ppb	36983	1.23	220000	
Ca	44	115	2	1.07	1.07	ppb	372	21.24	220000	
V	51	115	2	-0.10	-0.10	ppb	144	7.42	550	
Cr	52	115	2	0.07	0.07	ppb	1483	9.47	550	
Mn	55	115	2	0.10	0.10	ppb	848	7.36	2750	
Fe	56	115	2	5.53	5.53	ppb	71054	2.45	220000	
Co	59	115	2	0.02	0.02	ppb	450	1.48	550	
Ni	60	115	2	0.01	0.01	ppb	217	24.62	550	
Cu	65	115	2	-0.13	-0.13	ppb	2563	5.02	2750	
Zn	66	115	2	-0.18	-0.18	ppb	638	3.40	2750	
As	75	115	2	0.01	0.01	ppb	47	16.50	550	
Se	78	115	2	0.12	0.12	ppb	88	5.06	2750	
Mo	95	115	1	0.05	0.05	ppb	1189	10.81	550	
Ag	107	115	1	1.60	1.60	ppb	66015	10.85	550	
Cd	111	115	1	0.01	0.01	ppb	80	19.59	550	
Sb	121	115	1	-0.10	-0.10	ppb	3310	3.30	550	
Ba	137	159	1	0.00	0.00	ppb	601	5.93	2750	
Tl	205	165	1	0.02	0.02	ppb	2407	3.99	550	
Pb	208	165	1	0.06	0.06	ppb	11669	1.01	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1438032	0.24	1616505	89.0	70	130	
Sc	45	2	52180	0.72	53187	98.1	70	130	
In	115	1	1839113	0.63	2034272	90.4	70	130	
In	115	2	397870	0.85	383032	103.9	70	130	
Tb	159	1	2129213	0.31	2375564	89.6	70	130	
Tb	159	2	1091595	1.03	1093392	99.8	70	130	
Ho	165	1	2000386	0.40	2250620	88.9	70	130	
Ho	165	2	1070540	0.41	1077785	99.3	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**RINSE**
Data File Name	**018SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T11:37:47-04:00**
Type	**Sample**
VialNumber	**1102**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.02	0.02	ppb	218	21.12	550	
Na	23	115	2	-1.48	-1.48	ppb	34533	1.25	220000	
Mg	24	115	2	2.89	2.89	ppb	2124	0.72	220000	
Al	27	115	2	2.03	2.03	ppb	557	15.97	181500	
K	39	115	2	1.96	1.96	ppb	36686	0.99	220000	
Ca	44	115	2	0.68	0.68	ppb	362	4.54	220000	
V	51	115	2	-0.09	-0.09	ppb	216	8.52	550	
Cr	52	115	2	0.07	0.07	ppb	1570	6.20	550	
Mn	55	115	2	0.10	0.10	ppb	814	4.65	2750	
Fe	56	115	2	5.34	5.34	ppb	69707	1.60	220000	
Co	59	115	2	0.02	0.02	ppb	418	10.89	550	
Ni	60	115	2	0.01	0.01	ppb	223	20.19	550	
Cu	65	115	2	-0.12	-0.12	ppb	2620	4.93	2750	
Zn	66	115	2	-0.17	-0.17	ppb	649	4.37	2750	
As	75	115	2	0.01	0.01	ppb	38	25.11	550	
Se	78	115	2	0.29	0.29	ppb	102	8.82	2750	
Mo	95	115	1	0.05	0.05	ppb	1090	10.14	550	
Ag	107	115	1	1.52	1.52	ppb	62948	10.45	550	
Cd	111	115	1	0.01	0.01	ppb	83	3.53	550	
Sb	121	115	1	-0.12	-0.12	ppb	2581	3.89	550	
Ba	137	159	1	0.01	0.01	ppb	687	8.51	2750	
Tl	205	165	1	0.01	0.01	ppb	2037	3.70	550	
Pb	208	165	1	0.05	0.05	ppb	11359	2.57	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1443709	0.71	1616505	89.3	70	130	
Sc	45	2	53115	0.10	53187	99.9	70	130	
In	115	1	1846899	0.60	2034272	90.8	70	130	
In	115	2	400005	0.79	383032	104.4	70	130	
Tb	159	1	2114089	0.08	2375564	89.0	70	130	
Tb	159	2	1090184	0.57	1093392	99.7	70	130	
Ho	165	1	2015399	0.73	2250620	89.5	70	130	
Ho	165	2	1072809	0.32	1077785	99.5	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Printed at: 11:39 AM on:6/15/2023

Continuing Calibration Verification (CCV) - US EPA Method 6020

Sample Name	**CCV V-397371**
Data File Name	**0196CCV.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T11:42:17-04:00**
Type	**6-CCV**
VialNumber	**1201**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	Conc	Units	Expected	CPS	%RSD	%Rec	%QC Low	%QC High	QC Flag
Be	9	165	1	53.21	ppb	50	331702	1.07	106.41	90	110	
Na	23	115	2	4893.79	ppb	5000	5688258	0.74	97.88	90	110	
Mg	24	115	2	4981.16	ppb	5000	2612793	0.53	99.62	90	110	
Al	27	115	2	1495.56	ppb	1500	256012	1.08	99.70	90	110	
K	39	115	2	5004.83	ppb	5000	2935830	0.46	100.10	90	110	
Ca	44	115	2	4949.92	ppb	5000	149855	0.66	99.00	90	110	
V	51	115	2	48.95	ppb	50	442784	0.86	97.90	90	110	
Cr	52	115	2	48.93	ppb	50	551672	0.50	97.87	90	110	
Mn	55	115	2	49.65	ppb	50	276267	0.79	99.29	90	110	
Fe	56	115	2	4921.38	ppb	5000	43877018	0.70	98.43	90	110	
Co	59	115	2	47.48	ppb	50	930752	1.06	94.95	90	110	
Ni	60	115	2	49.25	ppb	50	253584	1.42	98.51	90	110	
Cu	65	115	2	49.37	ppb	50	350816	0.44	98.74	90	110	
Zn	66	115	2	49.13	ppb	50	85559	2.47	98.25	90	110	
As	75	115	2	49.33	ppb	50	62498	0.50	98.67	90	110	
Se	78	115	2	250.46	ppb	250	19617	0.74	100.18	90	110	
Mo	95	115	1	47.97	ppb	50	854574	0.81	95.93	90	110	
Ag	107	115	1	50.57	ppb	50	2163336	0.40	101.14	90	110	
Cd	111	115	1	49.23	ppb	50	374186	0.39	98.46	90	110	
Sb	121	115	1	49.84	ppb	50	1658236	1.33	99.68	90	110	
Ba	137	159	1	47.37	ppb	50	633707	1.11	94.75	90	110	
Tl	205	165	1	50.90	ppb	50	2970951	0.90	101.80	90	110	
Pb	208	165	1	50.91	ppb	50	2100983	0.67	101.81	90	110	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1617815	0.62	1616505	100.1	70	130	
Sc	45	2	54058	0.36	53187	101.6	70	130	
In	115	1	1921804	1.15	2034272	94.5	70	130	
In	115	2	391069	1.19	383032	102.1	70	130	
Tb	159	1	2264926	1.06	2375564	95.3	70	130	
Tb	159	2	1115276	1.26	1093392	102.0	70	130	
Ho	165	1	2125152	1.23	2250620	94.4	70	130	
Ho	165	2	1102575	0.96	1077785	102.3	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Continuing Calibration Blank (CCB) - US EPA Method 6020

Sample Name	**CCB V-397368**
Data File Name	**0206CCB.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T11:49:31-04:00**
Type	**6-CCB**
VialNumber	**1202**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	Units	QC High	QC Flag
Be	9	165	1	0.01	ppb	1	
Na	23	115	2	-8.84	ppb	500	
Mg	24	115	2	0.00	ppb	500	
Al	27	115	2	-0.63	ppb	500	
K	39	115	2	-4.69	ppb	500	
Ca	44	115	2	-3.92	ppb	500	
V	51	115	2	-0.06	ppb	1	
Cr	52	115	2	0.04	ppb	2	
Mn	55	115	2	0.01	ppb	6	
Fe	56	115	2	5.26	ppb	500	
Co	59	115	2	0.00	ppb	2	
Ni	60	115	2	0.00	ppb	3	
Cu	65	115	2	0.22	ppb	10	
Zn	66	115	2	-0.24	ppb	20	
As	75	115	2	0.01	ppb	1	
Se	78	115	2	0.14	ppb	10	
Mo	95	115	1	0.06	ppb	1	
Ag	107	115	1	0.29	ppb	1	
Cd	111	115	1	0.00	ppb	2	
Sb	121	115	1	-0.08	ppb	4	
Ba	137	159	1	-0.03	ppb	5	
Tl	205	165	1	0.00	ppb	2	
Pb	208	165	1	-0.06	ppb	2	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1504969	0.54	1616505	93.1	70	130	
Sc	45	2	49747	3.24	53187	93.5	70	130	
In	115	1	1957807	0.04	2034272	96.2	70	130	
In	115	2	385508	0.13	383032	100.6	70	130	
Tb	159	1	2294892	0.82	2375564	96.6	70	130	
Tb	159	2	1100185	0.73	1093392	100.6	70	130	
Ho	165	1	2166403	0.91	2250620	96.3	70	130	
Ho	165	2	1088879	0.93	1077765	101.0	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**MB 107860**
Data File Name	**021SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T11:54:01-04:00**
Type	**Sample**
VialNumber	**2201**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.01	0.01	ppb	161	19.66	550	
Na	23	115	2	1.85	1.85	ppb	36745	0.77	220000	
Mg	24	115	2	0.27	0.27	ppb	688	7.06	220000	
Al	27	115	2	0.06	0.06	ppb	202	13.22	181500	
K	39	115	2	-4.83	-4.83	ppb	31199	0.51	220000	
Ca	44	115	2	-1.03	-1.03	ppb	296	16.12	220000	
V	51	115	2	-0.05	-0.05	ppb	568	17.46	550	
Cr	52	115	2	0.04	0.04	ppb	1107	1.20	550	
Mn	55	115	2	0.03	0.03	ppb	428	10.02	2750	
Fe	56	115	2	2.28	2.28	ppb	39898	3.61	220000	
Co	59	115	2	0.00	0.00	ppb	73	24.05	550	
Ni	60	115	2	0.00	0.00	ppb	164	8.19	550	
Cu	65	115	2	0.22	0.22	ppb	4824	6.46	2750	
Zn	66	115	2	0.37	0.37	ppb	1533	7.17	2750	
As	75	115	2	0.00	0.00	ppb	31	19.43	550	
Se	78	115	2	0.09	0.09	ppb	81	5.51	2750	
Mo	95	115	1	0.03	0.03	ppb	871	12.82	550	
Ag	107	115	1	0.27	0.27	ppb	12176	10.27	550	
Cd	111	115	1	0.00	0.00	ppb	30	30.54	550	
Sb	121	115	1	-0.11	-0.11	ppb	3068	3.35	550	
Ba	137	159	1	0.01	0.01	ppb	820	6.94	2750	
Tl	205	165	1	-0.01	-0.01	ppb	1190	6.73	550	
Pb	208	165	1	-0.05	-0.05	ppb	8172	2.02	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1494772	0.52	1616505	92.5	70	130	
Sc	45	2	50083	1.65	53187	94.2	70	130	
In	115	1	1954121	1.03	2034272	96.1	70	130	
In	115	2	382154	1.34	383032	99.8	70	130	
Tb	159	1	2298248	0.75	2375564	96.7	70	130	
Tb	159	2	1090939	1.11	1093392	99.8	70	130	
Ho	165	1	2178529	0.22	2250620	96.8	70	130	
Ho	165	2	1076456	0.84	1077785	99.9	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**LCS 107860**
Data File Name	**022SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T11:58:33-04:00**
Type	**Sample**
VialNumber	**2202**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	113.95	113.95	ppb	761631	0.37	550	
Na	23	115	2	2986.61	2986.61	ppb	3500780	0.38	220000	
Mg	24	115	2	2499.13	2499.13	ppb	1317075	0.48	220000	
Al	27	115	2	5855.72	5855.72	ppb	1006346	1.21	181500	
K	39	115	2	1699.53	1699.53	ppb	1024600	1.64	220000	
Ca	44	115	2	6770.73	6770.73	ppb	205787	0.96	220000	
V	51	115	2	71.96	71.96	ppb	653407	1.43	550	
Cr	52	115	2	41.83	41.83	ppb	473818	1.14	550	
Mn	55	115	2	440.02	440.02	ppb	2457469	0.18	2750	
Fe	56	115	2	12031.16	12031.16	ppb	107715355	0.18	220000	
Co	59	115	2	49.58	49.58	ppb	976460	1.22	550	
Ni	60	115	2	122.80	122.80	ppb	634848	1.21	550	
Cu	65	115	2	138.47	138.47	ppb	982253	1.21	2750	
Zn	66	115	2	209.22	209.22	ppb	362986	1.83	2750	
As	75	115	2	84.82	84.82	ppb	107928	0.92	550	
Se	78	115	2	120.92	120.92	ppb	9556	1.59	2750	
Mo	95	115	1	84.25	84.25	ppb	1534338	0.35	550	
Ag	107	115	1	23.69	23.69	ppb	1036212	0.84	550	
Cd	111	115	1	64.33	64.33	ppb	499879	0.75	550	
Sb	121	115	1	70.86	70.86	ppb	2407233	0.33	550	
Ba	137	159	1	212.52	212.52	ppb	3005389	0.64	2750	
Tl	205	165	1	71.06	71.06	ppb	4447042	0.49	550	
Pb	208	165	1	70.04	70.04	ppb	3095895	0.45	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1729906	0.46	1616505	107.0	70	130	
Sc	45	2	56760	2.06	53187	106.7	70	130	
In	115	1	1964802	1.26	2034272	96.6	70	130	
In	115	2	392856	1.49	383032	102.6	70	130	
Tb	159	1	2396381	0.61	2375564	100.9	70	130	
Tb	159	2	1160628	1.30	1093392	106.1	70	130	
Ho	165	1	2278690	0.80	2250620	101.2	70	130	
Ho	165	2	1138287	0.86	1077785	105.6	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Printed at: 12:00 PM on:6/15/2023

Sample Report

Sample Name	**LCS MR 107860**
Data File Name	**023SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T12:02:55-04:00**
Type	**Sample**
VialNumber	**2203**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	114.56	114.56	ppb	757277	0.21	550	
Na	23	115	2	2890.35	2890.35	ppb	3429919	0.65	220000	
Mg	24	115	2	2478.55	2478.55	ppb	1321885	0.37	220000	
Al	27	115	2	5767.12	5767.12	ppb	1002993	1.11	181500	
K	39	115	2	1665.70	1665.70	ppb	1016872	1.30	220000	
Ca	44	115	2	6699.50	6699.50	ppb	206066	1.28	220000	
V	51	115	2	70.64	70.64	ppb	649124	0.51	550	
Cr	52	115	2	41.48	41.48	ppb	475471	0.41	550	
Mn	55	115	2	438.52	438.52	ppb	2478463	0.93	2750	
Fe	56	115	2	11933.65	11933.65	ppb	108122786	0.29	220000	
Co	59	115	2	49.49	49.49	ppb	986229	1.16	550	
Ni	60	115	2	121.22	121.22	ppb	634146	0.87	550	
Cu	65	115	2	136.88	136.88	ppb	982654	1.13	2750	
Zn	66	115	2	205.80	205.80	ppb	361294	0.55	2750	
As	75	115	2	82.72	82.72	ppb	106516	1.19	550	
Se	78	115	2	120.87	120.87	ppb	9664	0.53	2750	
Mo	95	115	1	83.79	83.79	ppb	1533932	1.35	550	
Ag	107	115	1	23.66	23.66	ppb	1040431	0.78	550	
Cd	111	115	1	64.14	64.14	ppb	500961	1.07	550	
Sb	121	115	1	71.22	71.22	ppb	2431888	0.43	550	
Ba	137	159	1	210.08	210.08	ppb	2952307	0.63	2750	
Tl	205	165	1	71.30	71.30	ppb	4413263	1.18	550	
Pb	208	165	1	70.78	70.78	ppb	3093756	0.79	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1677589	0.55	1616505	103.8	70	130	
Sc	45	2	56056	0.60	53187	105.4	70	130	
In	115	1	1974730	0.28	2034272	97.1	70	130	
In	115	2	397529	0.93	383032	103.8	70	130	
Tb	159	1	2381356	0.23	2375564	100.2	70	130	
Tb	159	2	1167701	1.22	1093392	106.8	70	130	
Ho	165	1	2253411	0.54	2250620	100.1	70	130	
Ho	165	2	1152880	0.93	1077785	107.0	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38537-001**
Data File Name	**024SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T12:07:17-04:00**
Type	**Sample**
VialNumber	**2204**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.87	0.87	ppb	6032	2.75	550	
Na	23	115	2	123.46	123.46	ppb	173533	2.19	220000	
Mg	24	115	2	10206.45	10206.45	ppb	5217526	0.48	220000	
Al	27	115	2	25924.59	25924.59	ppb	4321824	0.57	181500	
K	39	115	2	2847.17	2847.17	ppb	1642212	1.66	220000	
Ca	44	115	2	2949.88	2949.88	ppb	87170	0.83	220000	
V	51	115	2	44.47	44.47	ppb	392101	0.24	550	
Cr	52	115	2	35.70	35.70	ppb	392488	0.52	550	
Mn	55	115	2	2470.78	2470.78	ppb	13388188	0.64	2750	
Fe	56	115	2	85118.38	85118.38	ppb	739288353	0.31	220000	
Co	59	115	2	26.09	26.09	ppb	498412	0.12	550	
Ni	60	115	2	54.93	54.93	ppb	275596	0.45	550	
Cu	65	115	2	125.61	125.61	ppb	864760	0.30	2750	
Zn	66	115	2	164.40	164.40	ppb	276914	1.17	2750	
As	75	115	2	21.96	21.96	ppb	27136	1.95	550	
Se	78	115	2	4.76	4.76	ppb	437	5.35	2750	
Mo	95	115	1	1.11	1.11	ppb	20183	1.25	550	
Ag	107	115	1	0.36	0.36	ppb	15961	6.44	550	
Cd	111	115	1	0.19	0.19	ppb	1500	2.33	550	
Sb	121	115	1	0.37	0.37	ppb	19140	0.48	550	
Ba	137	159	1	107.67	107.67	ppb	1543514	2.48	2750	
Tl	205	165	1	0.36	0.36	ppb	24365	5.34	550	
Pb	208	165	1	15.68	15.68	ppb	711991	0.81	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	2408970	0.72	1616505	149.0	70	130	IS Fail
Sc	45	2	79590	1.39	53187	149.6	70	130	IS Fail
In	115	1	1929415	0.81	2034272	94.8	70	130	
In	115	2	381137	0.87	383032	99.5	70	130	
Tb	159	1	2428381	0.90	2375564	102.2	70	130	
Tb	159	2	1173620	0.25	1093392	107.3	70	130	
Ho	165	1	2313180	1.12	2250620	102.8	70	130	
Ho	165	2	1158424	0.60	1077785	107.5	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38537-001 MR**
Data File Name	**025SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T12:11:40-04:00**
Type	**Sample**
VialNumber	**2205**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	ConcConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.92	0.92	ppb	6416	4.58	550	
Na	23	115	2	143.91	143.91	ppb	195474	6.85	220000	
Mg	24	115	2	11179.86	11179.86	ppb	5682872	0.59	220000	
Al	27	115	2	26469.91	26469.91	ppb	4388019	0.63	181500	
K	39	115	2	2765.64	2765.64	ppb	1587322	0.50	220000	
Ca	44	115	2	3844.12	3844.12	ppb	112857	1.06	220000	
V	51	115	2	48.38	48.38	ppb	424103	0.41	550	
Cr	52	115	2	37.06	37.06	ppb	405108	0.78	550	
Mn	55	115	2	2599.92	2599.92	ppb	14008340	0.16	2750	
Fe	56	115	2	88321.36	88321.36	ppb	762783900	0.16	220000	
Co	59	115	2	28.27	28.27	ppb	537055	0.89	550	
Ni	60	115	2	55.06	55.06	ppb	274683	0.36	550	
Cu	65	115	2	121.48	121.48	ppb	831714	0.24	2750	
Zn	66	115	2	153.80	153.80	ppb	257651	0.57	2750	
As	75	115	2	21.50	21.50	ppb	26417	0.39	550	
Se	78	115	2	5.33	5.33	ppb	477	4.55	2750	
Mo	95	115	1	1.03	1.03	ppb	18882	1.29	550	
Ag	107	115	1	0.39	0.39	ppb	17230	10.77	550	
Cd	111	115	1	0.20	0.20	ppb	1575	2.06	550	
Sb	121	115	1	0.17	0.17	ppb	12560	2.80	550	
Ba	137	159	1	106.30	106.30	ppb	1530804	0.65	2750	
Tl	205	165	1	0.23	0.23	ppb	16205	1.79	550	
Pb	208	165	1	14.51	14.51	ppb	661003	0.71	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	2347863	0.25	1616505	145.2	70	130	IS Fail
Sc	45	2	77299	1.85	53187	145.3	70	130	IS Fail
In	115	1	1946401	0.62	2034272	95.7	70	130	
In	115	2	378978	0.18	383032	98.9	70	130	
Tb	159	1	2439773	0.49	2375564	102.7	70	130	
Tb	159	2	1181005	0.52	1093392	108.0	70	130	
Ho	165	1	2318356	0.94	2250620	103.0	70	130	
Ho	165	2	1163956	0.58	1077785	108.0	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

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Sample Report

Sample Name	**AD38537-001 SD**
Data File Name	**026SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T12:16:07-04:00**
Type	**Sample**
VialNumber	**2209**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.20	0.20	ppb	1383	5.85	550	
Na	23	115	2	117.02	117.02	ppb	167909	0.94	220000	
Mg	24	115	2	2021.44	2021.44	ppb	1043738	2.20	220000	
Al	27	115	2	5161.64	5161.64	ppb	868941	0.94	181500	
K	39	115	2	624.91	624.91	ppb	390684	2.61	220000	
Ca	44	115	2	594.85	594.85	ppb	18010	1.36	220000	
V	51	115	2	8.71	8.71	ppb	78388	1.87	550	
Cr	52	115	2	7.08	7.08	ppb	79158	2.14	550	
Mn	55	115	2	499.44	499.44	ppb	2732228	0.33	2750	
Fe	56	115	2	17074.48	17074.48	ppb	149744061	1.02	220000	
Co	59	115	2	5.19	5.19	ppb	100095	0.98	550	
Ni	60	115	2	10.87	10.87	ppb	55192	0.76	550	
Cu	65	115	2	24.99	24.99	ppb	176356	0.70	2750	
Zn	66	115	2	35.33	35.33	ppb	60798	1.38	2750	
As	75	115	2	4.32	4.32	ppb	5414	1.03	550	
Se	78	115	2	0.83	0.83	ppb	140	9.49	2750	
Mo	95	115	1	0.22	0.22	ppb	4270	6.91	550	
Ag	107	115	1	0.10	0.10	ppb	4641	7.32	550	
Cd	111	115	1	0.04	0.04	ppb	321	2.03	550	
Sb	121	115	1	-0.09	-0.09	ppb	3758	2.83	550	
Ba	137	159	1	20.69	20.69	ppb	280719	0.19	2750	
Tl	205	165	1	0.05	0.05	ppb	4474	2.61	550	
Pb	208	165	1	3.26	3.26	ppb	146704	1.22	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1606773	1.03	1616505	99.4	70	130	
Sc	45	2	54915	1.95	53187	103.2	70	130	
In	115	1	1929748	1.32	2034272	94.9	70	130	
In	115	2	384825	1.64	383032	100.5	70	130	
Tb	159	1	2294153	0.66	2375564	96.6	70	130	
Tb	159	2	1122744	1.23	1093392	102.7	70	130	
Ho	165	1	2163501	0.95	2250620	96.1	70	130	
Ho	165	2	1110518	0.95	1077785	103.0	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Printed at: 12:17 PM on:6/15/2023

Sample Report

Sample Name	**AD38537-001 MS 1**
Data File Name	**027SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T12:20:35-04:00**
Type	**Sample**
VialNumber	**2206**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	227.67	227.67	ppb	1533444	0.53	550	
Na	23	115	2	22567.43	22567.43	ppb	25747827	1.42	220000	
Mg	24	115	2	32959.92	32959.92	ppb	17050685	1.01	220000	
Al	27	115	2	28224.24	28224.24	ppb	4761871	0.72	181500	
K	39	115	2	24312.47	24312.47	ppb	13935174	1.38	220000	
Ca	44	115	2	26248.10	26248.10	ppb	782439	1.83	220000	
V	51	115	2	280.41	280.41	ppb	2496912	0.36	550	
Cr	52	115	2	273.09	273.09	ppb	3033740	0.88	550	
Mn	55	115	2	3551.60	3551.60	ppb	19476315	1.07	2750	>LDR
Fe	56	115	2	92760.27	92760.27	ppb	815308797	0.41	220000	
Co	59	115	2	261.76	261.76	ppb	5060962	0.37	550	
Ni	60	115	2	296.33	296.33	ppb	1503670	0.67	550	
Cu	65	115	2	361.44	361.44	ppb	2511881	0.37	2750	
Zn	66	115	2	382.86	382.86	ppb	651401	1.00	2750	
As	75	115	2	254.01	254.01	ppb	317270	0.83	550	
Se	78	115	2	225.58	225.58	ppb	17437	1.20	2750	
Mo	95	115	1	230.64	230.64	ppb	4269017	0.81	550	
Ag	107	115	1	44.63	44.63	ppb	1984115	1.25	550	
Cd	111	115	1	235.51	235.51	ppb	1860027	0.88	550	
Sb	121	115	1	147.43	147.43	ppb	5082835	0.32	550	
Ba	137	159	1	331.45	331.45	ppb	4732929	0.21	2750	
Tl	205	165	1	217.37	217.37	ppb	13706360	0.12	550	
Pb	208	165	1	233.30	233.30	ppb	10366664	0.64	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	2477706	0.86	1616505	153.3	70	130	IS Fail
Sc	45	2	81796	1.61	53187	153.8	70	130	IS Fail
In	115	1	1996934	0.67	2034272	98.2	70	130	
In	115	2	385733	1.44	383032	100.7	70	130	
Tb	159	1	2419930	0.35	2375564	101.9	70	130	
Tb	159	2	1151564	0.91	1093392	105.3	70	130	
Ho	165	1	2296597	1.25	2250620	102.0	70	130	
Ho	165	2	1138305	0.85	1077785	105.6	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38537-001 MS 2**
Data File Name	**028SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T12:24:44-04:00**
Type	**Sample**
VialNumber	**2207**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	224.50	224.50	ppb	1491362	0.40	550	
Na	23	115	2	22144.34	22144.34	ppb	25252045	0.48	220000	
Mg	24	115	2	31926.98	31926.98	ppb	16507793	0.67	220000	
Al	27	115	2	26936.24	26936.24	ppb	4542355	0.36	181500	
K	39	115	2	23855.90	23855.90	ppb	13667746	1.09	220000	
Ca	44	115	2	25732.22	25732.22	ppb	766659	0.77	220000	
V	51	115	2	274.28	274.28	ppb	2441260	1.05	550	
Cr	52	115	2	268.99	268.99	ppb	2986582	0.49	550	
Mn	55	115	2	2648.96	2648.96	ppb	14519226	0.40	2750	
Fe	56	115	2	88881.81	88881.81	ppb	780907766	0.62	220000	
Co	59	115	2	253.91	253.91	ppb	4907275	1.06	550	
Ni	60	115	2	295.55	295.55	ppb	1499229	0.48	550	
Cu	65	115	2	345.28	345.28	ppb	2398645	0.46	2750	
Zn	66	115	2	353.57	353.57	ppb	601343	0.67	2750	
As	75	115	2	281.00	281.00	ppb	350822	0.74	550	
Se	78	115	2	221.47	221.47	ppb	17113	2.09	2750	
Mo	95	115	1	225.73	225.73	ppb	4116831	1.14	550	
Ag	107	115	1	43.28	43.28	ppb	1895940	1.81	550	
Cd	111	115	1	229.67	229.67	ppb	1787323	1.19	550	
Sb	121	115	1	147.70	147.70	ppb	5017610	1.08	550	
Ba	137	159	1	322.62	322.62	ppb	4563484	0.53	2750	
Tl	205	165	1	213.83	213.83	ppb	13297643	1.00	550	
Pb	208	165	1	233.39	233.39	ppb	10228224	1.00	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	2278713	0.76	1616505	141.0	70	130	IS Fail
Sc	45	2	76898	0.73	53187	144.6	70	130	IS Fail
In	115	1	1967593	0.56	2034272	96.7	70	130	
In	115	2	385543	0.94	383032	100.7	70	130	
Tb	159	1	2397125	0.27	2375564	100.9	70	130	
Tb	159	2	1145830	1.38	1093392	104.8	70	130	
Ho	165	1	2264809	0.41	2250620	100.6	70	130	
Ho	165	2	1129486	1.13	1077785	104.8	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38537-001 PS**
Data File Name	**029SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T12:28:54-04:00**
Type	**Sample**
VialNumber	**2208**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	56.90	56.90	ppb	378361	0.17	550	
Na	23	115	2	5913.00	5913.00	ppb	6711312	1.08	220000	
Mg	24	115	2	15971.80	15971.80	ppb	8188916	1.30	220000	
Al	27	115	2	27786.87	27786.87	ppb	4646348	1.39	181500	
K	39	115	2	8639.94	8639.94	ppb	4929834	1.34	220000	
Ca	44	115	2	8724.67	8724.67	ppb	257952	1.53	220000	
V	51	115	2	101.16	101.16	ppb	893406	1.05	550	
Cr	52	115	2	92.46	92.46	ppb	1018436	0.96	550	
Mn	55	115	2	2479.39	2479.39	ppb	13475305	1.70	2750	
Fe	56	115	2	89723.76	89723.76	ppb	781601908	0.46	220000	
Co	59	115	2	86.44	86.44	ppb	1656372	1.19	550	
Ni	60	115	2	109.70	109.70	ppb	551891	1.38	550	
Cu	65	115	2	183.96	183.96	ppb	1268567	3.17	2750	
Zn	66	115	2	215.21	215.21	ppb	363279	0.76	2750	
As	75	115	2	78.55	78.55	ppb	97261	0.92	550	
Se	76	115	2	286.20	286.20	ppb	21906	2.62	2750	
Mo	95	115	1	56.94	56.94	ppb	1020970	0.90	550	
Ag	107	115	1	57.42	57.42	ppb	2472291	0.36	550	
Cd	111	115	1	56.24	56.24	ppb	430272	0.76	550	
Sb	121	115	1	57.75	57.75	ppb	1932377	1.37	550	
Ba	137	159	1	163.79	163.79	ppb	2284138	0.89	2750	
Tl	205	165	1	56.09	56.09	ppb	3492203	0.62	550	
Pb	208	165	1	71.41	71.41	ppb	3139412	0.38	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	2305330	0.19	1616505	142.6	70	130	IS Fail
Sc	45	2	79355	0.40	53187	149.2	70	130	IS Fail
In	115	1	1934237	0.96	2034272	95.1	70	130	
In	115	2	382261	0.67	383032	99.8	70	130	
Tb	159	1	2363456	1.48	2375564	99.5	70	130	
Tb	159	2	1159130	1.22	1093392	106.0	70	130	
Ho	165	1	2266673	1.13	2250620	100.7	70	130	
Ho	165	2	1144849	1.21	1077785	106.2	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**RINSE**
Data File Name	**030SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T12:33:12-04:00**
Type	**Sample**
VialNumber	**1101**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.05	0.05	ppb	408	19.73	550	
Na	23	115	2	-7.06	-7.06	ppb	27505	1.12	220000	
Mg	24	115	2	2.04	2.04	ppb	1641	6.23	220000	
Al	27	115	2	2.86	2.86	ppb	691	5.55	181500	
K	39	115	2	-2.33	-2.33	ppb	33611	0.30	220000	
Ca	44	115	2	1.59	1.59	ppb	384	9.51	220000	
V	51	115	2	-0.09	-0.09	ppb	186	22.75	550	
Cr	52	115	2	0.07	0.07	ppb	1448	3.70	550	
Mn	55	115	2	0.13	0.13	ppb	969	6.50	2750	
Fe	56	115	2	16.81	16.81	ppb	171534	0.87	220000	
Co	59	115	2	0.01	0.01	ppb	260	13.87	550	
Ni	60	115	2	0.01	0.01	ppb	206	14.53	550	
Cu	65	115	2	-0.26	-0.26	ppb	1623	7.92	2750	
Zn	66	115	2	-0.15	-0.15	ppb	667	5.27	2750	
As	75	115	2	0.05	0.05	ppb	94	12.28	550	
Se	78	115	2	0.34	0.34	ppb	104	8.89	2750	
Mo	95	115	1	0.15	0.15	ppb	2859	7.39	550	
Ag	107	115	1	0.42	0.42	ppb	18231	11.93	550	
Cd	111	115	1	0.00	0.00	ppb	74	17.60	550	
Sb	121	115	1	0.06	0.06	ppb	8493	1.34	550	
Ba	137	159	1	-0.01	-0.01	ppb	524	25.12	2750	
Tl	205	165	1	0.14	0.14	ppb	9229	4.76	550	
Pb	208	165	1	-0.01	-0.01	ppb	9336	2.88	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1419368	0.26	1616505	87.8	70	130	
Sc	45	2	48817	3.42	53187	91.8	70	130	
In	115	1	1888404	0.48	2034272	92.8	70	130	
In	115	2	393778	0.42	383032	102.8	70	130	
Tb	159	1	2188478	1.44	2375564	92.1	70	130	
Tb	159	2	1102232	0.89	1093392	100.8	70	130	
Ho	165	1	2065959	1.38	2250620	91.8	70	130	
Ho	165	2	1082523	1.24	1077785	100.4	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Continuing Calibration Verification (CCV) - US EPA Method 6020

Sample Name	**CCV V-397371**
Data File Name	**0316CCV.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T12:37:42-04:00**
Type	**6-CCV**
VialNumber	**1201**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	Conc	Units	Expected	CPS	%RSD	%Rec	%QC Low	%QC High	QC Flag
Be	9	165	1	52.01	ppb	50	328256	0.72	104.01	90	110	
Na	23	115	2	4938.61	ppb	5000	5668400	0.39	98.77	90	110	
Mg	24	115	2	4984.78	ppb	5000	2582190	1.10	99.70	90	110	
Al	27	115	2	1497.18	ppb	1500	253108	1.62	99.81	90	110	
K	39	115	2	5008.53	ppb	5000	2901433	1.28	100.17	90	110	
Ca	44	115	2	4986.16	ppb	5000	149068	1.78	99.72	90	110	
V	51	115	2	49.18	ppb	50	439321	0.89	98.36	90	110	
Cr	52	115	2	49.36	ppb	50	549557	0.52	98.72	90	110	
Mn	55	115	2	49.89	ppb	50	274149	0.94	99.77	90	110	
Fe	56	115	2	4975.50	ppb	5000	43805115	0.43	99.51	90	110	
Co	59	115	2	48.20	ppb	50	933052	0.79	96.39	90	110	
Ni	60	115	2	49.55	ppb	50	251897	0.85	99.09	90	110	
Cu	65	115	2	49.47	ppb	50	347166	0.69	98.95	90	110	
Zn	66	115	2	49.35	ppb	50	84862	0.23	98.70	90	110	
As	75	115	2	49.60	ppb	50	62053	0.49	99.20	90	110	
Se	78	115	2	251.39	ppb	250	19447	1.90	100.56	90	110	
Mo	95	115	1	47.84	ppb	50	854342	1.10	95.68	90	110	
Ag	107	115	1	50.71	ppb	50	2174540	1.38	101.42	90	110	
Cd	111	115	1	49.37	ppb	50	376094	0.81	98.73	90	110	
Sb	121	115	1	49.79	ppb	50	1660293	1.13	99.58	90	110	
Ba	137	159	1	47.32	ppb	50	630201	1.72	94.64	90	110	
Tl	205	165	1	50.52	ppb	50	2985718	0.67	101.05	90	110	
Pb	208	165	1	50.15	ppb	50	2095689	0.79	100.30	90	110	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1526946	0.93	1616505	94.5	70	130	
Sc	45	2	50735	1.40	53187	95.4	70	130	
In	115	1	1926261	1.68	2034272	94.7	70	130	
In	115	2	386187	0.97	383032	100.8	70	130	
Tb	159	1	2255210	0.77	2375564	94.9	70	130	
Tb	159	2	1109839	1.30	1093392	101.5	70	130	
Ho	165	1	2151336	0.91	2250620	95.6	70	130	
Ho	165	2	1100966	0.73	1077785	102.2	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Continuing Calibration Blank (CCB) - US EPA Method 6020

Sample Name	**CCB V-397368**
Data File Name	**0326CCB.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T12:42:05-04:00**
Type	**6-CCB**
VialNumber	**1202**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	Units	QC High	QC Flag
Be	9	165	1	0.03	ppb	1	
Na	23	115	2	-12.79	ppb	500	
Mg	24	115	2	0.31	ppb	500	
Al	27	115	2	-0.03	ppb	500	
K	39	115	2	-2.89	ppb	500	
Ca	44	115	2	-4.18	ppb	500	
V	51	115	2	-0.02	ppb	1	
Cr	52	115	2	0.04	ppb	2	
Mn	55	115	2	0.02	ppb	6	
Fe	56	115	2	9.11	ppb	500	
Co	59	115	2	0.00	ppb	2	
Ni	60	115	2	0.01	ppb	3	
Cu	65	115	2	-0.18	ppb	10	
Zn	66	115	2	-0.14	ppb	20	
As	75	115	2	0.05	ppb	1	
Se	78	115	2	0.16	ppb	10	
Mo	95	115	1	0.13	ppb	1	
Ag	107	115	1	0.22	ppb	1	
Cd	111	115	1	0.00	ppb	2	
Sb	121	115	1	0.04	ppb	4	
Ba	137	159	1	-0.02	ppb	5	
Tl	205	165	1	0.05	ppb	2	
Pb	208	165	1	-0.09	ppb	2	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1464848	0.86	1616505	90.6	70	130	
Sc	45	2	49303	1.60	53187	92.7	70	130	
In	115	1	1926809	1.18	2034272	94.7	70	130	
In	115	2	383194	0.83	383032	100.0	70	130	
Tb	159	1	2252122	0.20	2375564	94.8	70	130	
Tb	159	2	1099446	0.29	1093392	100.6	70	130	
Ho	165	1	2142783	0.81	2250620	95.2	70	130	
Ho	165	2	1076532	0.46	1077785	99.9	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38551-004**
Data File Name	**033SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T12:46:35-04:00**
Type	**Sample**
VialNumber	**2402**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.76	0.76	ppb	5072	4.28	550	
Na	23	115	2	184.14	184.14	ppb	240963	2.35	220000	
Mg	24	115	2	4156.78	4156.78	ppb	2116880	0.28	220000	
Al	27	115	2	18689.24	18689.24	ppb	3103853	1.32	181500	
K	39	115	2	1101.17	1101.17	ppb	653462	1.66	220000	
Ca	44	115	2	2093.60	2093.60	ppb	61719	0.59	220000	
V	51	115	2	35.56	35.56	ppb	312571	1.01	550	
Cr	52	115	2	27.90	27.90	ppb	305636	1.00	550	
Mn	55	115	2	233.22	233.22	ppb	1258980	0.21	2750	
Fe	56	115	2	33774.52	33774.52	ppb	292219765	0.65	220000	
Co	59	115	2	11.60	11.60	ppb	220763	1.31	550	
Ni	60	115	2	27.53	27.53	ppb	137686	0.61	550	
Cu	65	115	2	7.52	7.52	ppb	54659	0.80	2750	
Zn	66	115	2	61.99	61.99	ppb	104562	0.70	2750	
As	75	115	2	5.66	5.66	ppb	6991	2.74	550	
Se	78	115	2	4.73	4.73	ppb	432	6.43	2750	
Mo	95	115	1	2.25	2.25	ppb	40540	2.09	550	
Ag	107	115	1	0.30	0.30	ppb	13080	10.56	550	
Cd	111	115	1	0.09	0.09	ppb	746	1.04	550	
Sb	121	115	1	0.35	0.35	ppb	18449	0.87	550	
Ba	137	159	1	157.19	157.19	ppb	2191200	0.61	2750	
Tl	205	165	1	0.12	0.12	ppb	9025	1.83	550	
Pb	208	165	1	20.26	20.26	ppb	884737	0.12	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1844437	0.50	1616505	114.1	70	130	
Sc	45	2	60637	2.22	53187	114.0	70	130	
In	115	1	1933132	0.20	2034272	95.0	70	130	
In	115	2	379663	1.17	383032	99.1	70	130	
Tb	159	1	2362042	0.81	2375564	99.4	70	130	
Tb	159	2	1140726	1.00	1093392	104.3	70	130	
Ho	165	1	2232073	0.78	2250620	99.2	70	130	
Ho	165	2	1133177	0.57	1077785	105.1	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38515-001**
Data File Name	**034SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T12:51:02-04:00**
Type	**Sample**
VialNumber	**2401**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	1.39	1.39	ppb	10049	1.29	550	
Na	23	115	2	1966.82	1966.82	ppb	2104652	0.18	220000	
Mg	24	115	2	21968.35	21968.35	ppb	10511203	1.43	220000	
Al	27	115	2	32443.03	32443.03	ppb	5062642	1.79	181500	
K	39	115	2	4671.33	4671.33	ppb	2501734	1.20	220000	
Ca	44	115	2	155294.56	155294.56	ppb	4279377	0.57	220000	
V	51	115	2	103.28	103.28	ppb	851118	0.53	550	
Cr	52	115	2	73.31	73.31	ppb	753699	1.29	550	
Mn	55	115	2	965.36	965.36	ppb	4896216	0.93	2750	
Fe	56	115	2	87656.75	87656.75	ppb	712600869	0.79	220000	
Co	59	115	2	32.69	32.69	ppb	584544	1.11	550	
Ni	60	115	2	47.37	47.37	ppb	222494	1.00	550	
Cu	65	115	2	1045.33	1045.33	ppb	6713245	1.07	2750	
Zn	66	115	2	462.75	462.75	ppb	727995	0.96	2750	
As	75	115	2	21.30	21.30	ppb	24630	1.16	550	
Se	78	115	2	15.62	15.62	ppb	1182	4.09	2750	
Mo	95	115	1	2.01	2.01	ppb	35657	1.26	550	
Ag	107	115	1	0.70	0.70	ppb	29900	2.93	550	
Cd	111	115	1	5.71	5.71	ppb	42900	0.90	550	
Sb	121	115	1	5.16	5.16	ppb	175557	0.51	550	
Ba	137	159	1	143.44	143.44	ppb	2226769	0.51	2750	
Tl	205	165	1	0.15	0.15	ppb	11679	0.93	550	
Pb	208	165	1	399.18	399.18	ppb	18704032	0.48	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	2109760	0.68	1616505	130.5	70	130	IS Fail
Sc	45	2	65884	1.07	53187	123.9	70	130	
In	115	1	1897649	1.54	2034272	93.3	70	130	
In	115	2	356750	1.39	383032	93.1	70	130	
Tb	159	1	2630522	1.34	2375564	110.7	70	130	
Tb	159	2	1297321	4.76	1093392	118.7	70	130	
Ho	165	1	2422425	0.03	2250620	107.6	70	130	
Ho	165	2	1184859	0.59	1077785	109.9	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Printed at: 12:52 PM on:6/15/2023

Sample Report

Sample Name	**AD38540-004**
Data File Name	**035SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T12:55:23-04:00**
Type	**Sample**
VialNumber	**2210**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.47	0.47	ppb	3253	4.83	550	
Na	23	115	2	108.38	108.38	ppb	155598	0.94	220000	
Mg	24	115	2	451.82	451.82	ppb	230038	1.35	220000	
Al	27	115	2	3458.40	3458.40	ppb	573085	0.66	181500	
K	39	115	2	879.51	879.51	ppb	527370	0.55	220000	
Ca	44	115	2	637.25	637.25	ppb	18965	0.19	220000	
V	51	115	2	20.81	20.81	ppb	182872	1.26	550	
Cr	52	115	2	23.27	23.27	ppb	254436	0.98	550	
Mn	55	115	2	42.44	42.44	ppb	228756	0.68	2750	
Fe	56	115	2	18480.05	18480.05	ppb	159507817	0.49	220000	
Co	59	115	2	1.21	1.21	ppb	23025	2.20	550	
Ni	60	115	2	2.54	2.54	ppb	12815	1.73	550	
Cu	65	115	2	2.74	2.74	ppb	21946	1.43	2750	
Zn	66	115	2	20.69	20.69	ppb	35408	1.03	2750	
As	75	115	2	14.51	14.51	ppb	17819	0.14	550	
Se	78	115	2	1.14	1.14	ppb	161	8.33	2750	
Mo	95	115	1	0.92	0.92	ppb	17242	1.52	550	
Ag	107	115	1	0.24	0.24	ppb	11168	9.26	550	
Cd	111	115	1	0.04	0.04	ppb	338	0.83	550	
Sb	121	115	1	0.13	0.13	ppb	11425	1.54	550	
Ba	137	159	1	7.69	7.69	ppb	107751	0.73	2750	
Tl	205	165	1	0.04	0.04	ppb	4341	2.08	550	
Pb	208	165	1	2.91	2.91	ppb	137715	0.36	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1590711	0.94	1616505	98.4	70	130	
Sc	45	2	51818	2.42	53187	97.4	70	130	
In	115	1	1978377	0.15	2034272	97.3	70	130	
In	115	2	378728	0.87	383032	98.9	70	130	
Tb	159	1	2361318	0.94	2375564	99.4	70	130	
Tb	159	2	1128625	1.57	1093392	103.2	70	130	
Ho	165	1	2257642	0.27	2250620	100.3	70	130	
Ho	165	2	1113362	0.77	1077785	103.3	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Printed at: 12:57 PM on:6/15/2023

Sample Report

Sample Name	**AD38540-007**
Data File Name	**036SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T12:59:55-04:00**
Type	**Sample**
VialNumber	**2211**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	1.51	1.51	ppb	10009	1.69	550	
Na	23	115	2	369.92	369.92	ppb	445579	0.30	220000	
Mg	24	115	2	1899.96	1899.96	ppb	960027	1.03	220000	
Al	27	115	2	12668.79	12668.79	ppb	2086655	0.06	181500	
K	39	115	2	3786.92	3786.92	ppb	2147300	1.53	220000	
Ca	44	115	2	1945.35	1945.35	ppb	56908	1.20	220000	
V	51	115	2	80.05	80.05	ppb	696632	0.46	550	
Cr	52	115	2	117.13	117.13	ppb	1270565	0.61	550	
Mn	55	115	2	181.60	181.80	ppb	972385	0.26	2750	
Fe	56	115	2	57293.20	57293.20	ppb	491626513	0.54	220000	
Co	59	115	2	3.01	3.01	ppb	56784	0.45	550	
Ni	60	115	2	5.66	5.66	ppb	28189	1.47	550	
Cu	65	115	2	17.90	17.90	ppb	124569	0.49	2750	
Zn	66	115	2	63.65	63.65	ppb	106464	0.35	2750	
As	75	115	2	48.00	48.00	ppb	58556	0.33	550	
Se	78	115	2	3.00	3.00	ppb	299	2.61	2750	
Mo	95	115	1	3.16	3.16	ppb	57490	0.86	550	
Ag	107	115	1	0.33	0.33	ppb	14781	4.57	550	
Cd	111	115	1	0.19	0.19	ppb	1533	4.87	550	
Sb	121	115	1	1.10	1.10	ppb	43788	0.64	550	
Ba	137	159	1	58.67	58.67	ppb	808656	0.93	2750	
Tl	205	165	1	0.12	0.12	ppb	9241	3.60	550	
Pb	208	165	1	62.86	62.86	ppb	2723746	0.49	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1756310	0.47	1616505	108.6	70	130	
Sc	45	2	57064	2.12	53187	107.3	70	130	
In	115	1	1953036	1.03	2034272	96.0	70	130	
In	115	2	376587	1.57	383032	98.3	70	130	
Tb	159	1	2334244	0.69	2375564	98.3	70	130	
Tb	159	2	1131835	0.90	1093392	103.5	70	130	
Ho	165	1	2232863	0.85	2250620	99.2	70	130	
Ho	165	2	1119466	0.75	1077785	103.9	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38540-014**
Data File Name	**037SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T13:04:21-04:00**
Type	**Sample**
VialNumber	**2212**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	1.15	1.15	ppb	7524	2.60	550	
Na	23	115	2	488.54	488.54	ppb	533260	0.57	220000	
Mg	24	115	2	22607.64	22607.64	ppb	10542192	0.19	220000	
Al	27	115	2	24129.46	24129.46	ppb	3669749	0.48	181500	
K	39	115	2	2574.52	2574.52	ppb	1357771	1.35	220000	
Ca	44	115	2	418201.87	418201.87	ppb	11232042	0.55	220000	>LDR
V	51	115	2	45.41	45.41	ppb	365299	0.63	550	
Cr	52	115	2	57.42	57.42	ppb	575432	0.59	550	
Mn	55	115	2	613.86	613.86	ppb	3034468	0.84	2750	
Fe	56	115	2	23409.17	23409.17	ppb	185487397	0.76	220000	
Co	59	115	2	6.68	6.68	ppb	116491	1.02	550	
Ni	60	115	2	20.82	20.82	ppb	95401	0.89	550	
Cu	65	115	2	34.53	34.53	ppb	219084	0.19	2750	
Zn	66	115	2	547.24	547.24	ppb	838913	0.25	2750	
As	75	115	2	10.72	10.72	ppb	12092	1.56	550	
Se	78	115	2	2.57	2.57	ppb	247	7.81	2750	
Mo	95	115	1	6.43	6.43	ppb	108405	0.99	550	
Ag	107	115	1	0.29	0.29	ppb	12202	4.50	550	
Cd	111	115	1	0.50	0.50	ppb	3644	0.82	550	
Sb	121	115	1	2.12	2.12	ppb	72701	1.39	550	
Ba	137	159	1	162.17	162.17	ppb	2193286	0.81	2750	
Tl	205	165	1	0.09	0.09	ppb	7196	4.80	550	
Pb	208	165	1	54.69	54.69	ppb	2338154	1.28	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1810785	2.13	1616505	112.0	70	130	
Sc	45	2	58907	1.06	53187	110.8	70	130	
In	115	1	1813691	0.49	2034272	89.2	70	130	
In	115	2	347687	0.44	383032	90.8	70	130	
Tb	159	1	2291643	0.73	2375564	96.5	70	130	
Tb	159	2	1087230	1.29	1093392	99.4	70	130	
Ho	165	1	2201868	0.34	2250620	97.8	70	130	
Ho	165	2	1077620	0.41	1077785	100.0	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38540-021**
Data File Name	**038SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T13:08:45-04:00**
Type	**Sample**
VialNumber	**2301**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	1.24	1.24	ppb	8610	1.63	550	
Na	23	115	2	73.43	73.43	ppb	113148	0.57	220000	
Mg	24	115	2	1319.90	1319.90	ppb	651663	0.95	220000	
Al	27	115	2	19631.35	19631.35	ppb	3158689	0.70	181500	
K	39	115	2	2210.73	2210.73	ppb	1238092	1.42	220000	
Ca	44	115	2	1137.70	1137.70	ppb	32638	1.14	220000	
V	51	115	2	62.33	62.33	ppb	530070	0.19	550	
Cr	52	115	2	59.50	59.50	ppb	630829	0.91	550	
Mn	55	115	2	43.82	43.82	ppb	229405	0.85	2750	
Fe	56	115	2	31007.76	31007.76	ppb	259927441	0.53	220000	
Co	59	115	2	4.19	4.19	ppb	77278	1.33	550	
Ni	60	115	2	9.53	9.53	ppb	46259	0.86	550	
Cu	65	115	2	20.66	20.66	ppb	139977	1.60	2750	
Zn	66	115	2	110.87	110.87	ppb	180521	1.69	2750	
As	75	115	2	24.14	24.14	ppb	28780	0.73	550	
Se	78	115	2	4.30	4.30	ppb	388	10.04	2750	
Mo	95	115	1	1.80	1.80	ppb	32727	1.21	550	
Ag	107	115	1	0.86	0.86	ppb	37569	3.03	550	
Cd	111	115	1	0.55	0.55	ppb	4270	1.96	550	
Sb	121	115	1	0.78	0.78	ppb	32978	1.76	550	
Ba	137	159	1	75.56	75.56	ppb	1085226	0.45	2750	
Tl	205	165	1	0.15	0.15	ppb	11017	2.74	550	
Pb	208	165	1	121.96	121.96	ppb	5511294	0.44	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1932000	0.55	1616505	119.5	70	130	
Sc	45	2	61760	1.73	53187	116.1	70	130	
In	115	1	1949126	0.78	2034272	95.8	70	130	
In	115	2	367831	0.55	383032	96.0	70	130	
Tb	159	1	2432692	0.79	2375564	102.4	70	130	
Tb	159	2	1162801	0.52	1093392	106.3	70	130	
Ho	165	1	2333381	1.69	2250620	103.7	70	130	
Ho	165	2	1151637	0.81	1077785	106.9	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38540-002**
Data File Name	**039SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T13:13:11-04:00**
Type	**Sample**
VialNumber	**2302**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.58	0.58	ppb	4054	1.36	550	
Na	23	115	2	71.55	71.55	ppb	111773	1.10	220000	
Mg	24	115	2	868.72	868.72	ppb	431663	0.89	220000	
Al	27	115	2	4800.26	4800.26	ppb	777162	0.73	181500	
K	39	115	2	756.74	756.74	ppb	447932	0.70	220000	
Ca	44	115	2	3842.88	3842.88	ppb	110168	1.50	220000	
V	51	115	2	32.67	32.67	ppb	279971	0.68	550	
Cr	52	115	2	28.26	28.26	ppb	301832	0.79	550	
Mn	55	115	2	76.41	76.41	ppb	402253	1.35	2750	
Fe	56	115	2	16606.45	16606.45	ppb	140062910	1.69	220000	
Co	59	115	2	2.82	2.82	ppb	52322	1.30	550	
Ni	60	115	2	2.69	2.69	ppb	13272	1.56	550	
Cu	65	115	2	6.60	6.60	ppb	47200	0.63	2750	
Zn	66	115	2	20.22	20.22	ppb	33828	1.17	2750	
As	75	115	2	14.04	14.04	ppb	16856	1.27	550	
Se	78	115	2	1.46	1.46	ppb	180	1.55	2750	
Mo	95	115	1	0.99	0.99	ppb	18346	1.98	550	
Ag	107	115	1	0.25	0.25	ppb	11372	7.96	550	
Cd	111	115	1	0.06	0.06	ppb	517	7.90	550	
Sb	121	115	1	0.52	0.52	ppb	24557	2.75	550	
Ba	137	159	1	25.99	25.99	ppb	369083	1.46	2750	
Tl	205	165	1	0.03	0.03	ppb	3830	3.15	550	
Pb	208	165	1	9.02	9.02	ppb	410431	1.13	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1546068	0.69	1616505	95.6	70	130	
Sc	45	2	48424	1.33	53187	91.0	70	130	
In	115	1	1969575	1.07	2034272	96.8	70	130	
In	115	2	370055	0.84	383032	96.6	70	130	
Tb	159	1	2402733	0.91	2375564	101.1	70	130	
Tb	159	2	1132091	1.22	1093392	103.5	70	130	
Ho	165	1	2292028	0.26	2250620	101.8	70	130	
Ho	165	2	1118690	0.89	1077785	103.8	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38540-005**
Data File Name	**040SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T13:17:42-04:00**
Type	**Sample**
VialNumber	**2303**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.07	0.07	ppb	617	10.52	550	
Na	23	115	2	78.10	78.10	ppb	118594	0.82	220000	
Mg	24	115	2	59.15	59.15	ppb	29799	1.53	220000	
Al	27	115	2	1109.52	1109.52	ppb	179252	1.34	181500	
K	39	115	2	269.94	269.94	ppb	180400	2.53	220000	
Ca	44	115	2	337.55	337.55	ppb	9936	2.44	220000	
V	51	115	2	13.62	13.62	ppb	116925	0.92	550	
Cr	52	115	2	18.20	18.20	ppb	194001	1.01	550	
Mn	55	115	2	3.38	3.38	ppb	17971	9.95	2750	
Fe	56	115	2	12829.57	12829.57	ppb	107894260	0.74	220000	
Co	59	115	2	0.18	0.18	ppb	3379	3.17	550	
Ni	60	115	2	0.45	0.45	ppb	2351	2.41	550	
Cu	65	115	2	3.73	3.73	ppb	27962	0.77	2750	
Zn	66	115	2	5.35	5.35	ppb	9578	2.81	2750	
As	75	115	2	2.74	2.74	ppb	3303	0.63	550	
Se	78	115	2	0.29	0.29	ppb	94	13.99	2750	
Mo	95	115	1	0.92	0.92	ppb	17085	1.22	550	
Ag	107	115	1	0.23	0.23	ppb	10509	12.54	550	
Cd	111	115	1	0.02	0.02	ppb	183	15.30	550	
Sb	121	115	1	0.14	0.14	ppb	11742	2.94	550	
Ba	137	159	1	3.61	3.61	ppb	51075	11.11	2750	
Tl	205	165	1	0.03	0.03	ppb	3625	3.28	550	
Pb	208	165	1	5.60	5.60	ppb	253792	0.80	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1569232	2.52	1616505	97.1	70	130	
Sc	45	2	49518	1.15	53187	93.1	70	130	
In	115	1	1970027	0.70	2034272	96.8	70	130	
In	115	2	368977	0.56	383032	96.3	70	130	
Tb	159	1	2367961	0.52	2375564	99.7	70	130	
Tb	159	2	1115451	1.17	1093392	102.0	70	130	
Ho	165	1	2245820	0.56	2250620	99.8	70	130	
Ho	165	2	1101351	1.11	1077785	102.2	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38540-08**
Data File Name	**041SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T13:22:12-04:00**
Type	**Sample**
VialNumber	**2304**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	1.16	1.16	ppb	8104	1.13	550	
Na	23	115	2	95.65	95.65	ppb	137293	0.47	220000	
Mg	24	115	2	2625.53	2625.53	ppb	1295787	0.16	220000	
Al	27	115	2	21490.19	21490.19	ppb	3457856	0.33	181500	
K	39	115	2	1464.52	1464.52	ppb	831278	1.17	220000	
Ca	44	115	2	3045.73	3045.73	ppb	86855	0.13	220000	
V	51	115	2	99.35	99.35	ppb	844402	1.18	550	
Cr	52	115	2	60.92	60.92	ppb	645936	0.74	550	
Mn	55	115	2	282.41	282.41	ppb	1477147	0.37	2750	
Fe	56	115	2	54041.03	54041.03	ppb	453025580	0.46	220000	
Co	59	115	2	5.54	5.54	ppb	102284	1.04	550	
Ni	60	115	2	12.89	12.89	ppb	62544	1.16	550	
Cu	65	115	2	29.51	29.51	ppb	198534	0.96	2750	
Zn	66	115	2	63.31	63.31	ppb	103455	1.61	2750	
As	75	115	2	30.63	30.63	ppb	36508	0.95	550	
Se	78	115	2	5.67	5.67	ppb	488	1.55	2750	
Mo	95	115	1	2.69	2.69	ppb	48070	1.40	550	
Ag	107	115	1	0.30	0.30	ppb	13113	9.99	550	
Cd	111	115	1	0.16	0.16	ppb	1246	4.11	550	
Sb	121	115	1	0.87	0.87	ppb	35393	0.24	550	
Ba	137	159	1	81.66	81.66	ppb	1180008	0.90	2750	
Tl	205	165	1	0.14	0.14	ppb	10466	2.27	550	
Pb	208	165	1	58.32	58.32	ppb	2647451	0.64	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	2244128	3.05	1616505	138.8	70	130	IS Fail
Sc	45	2	71623	1.67	53187	134.7	70	130	IS Fail
In	115	1	1920782	7.05	2034272	94.4	70	130	
In	115	2	367863	0.93	383032	96.0	70	130	
Tb	159	1	2455051	6.71	2375564	103.3	70	130	
Tb	159	2	1181230	1.33	1093392	108.0	70	130	
Ho	165	1	2342899	5.54	2250620	104.1	70	130	
Ho	165	2	1167810	0.16	1077785	108.4	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**RINSE**
Data File Name	**042SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T13:26:38-04:00**
Type	**Sample**
VialNumber	**1101**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.01	0.01	ppb	202	6.66	550	
Na	23	115	2	-9.25	-9.25	ppb	23939	1.03	220000	
Mg	24	115	2	2.09	2.09	ppb	1603	3.98	220000	
Al	27	115	2	2.71	2.71	ppb	638	8.90	181500	
K	39	115	2	-6.66	-6.66	ppb	29813	0.67	220000	
Ca	44	115	2	2.17	2.17	ppb	386	6.07	220000	
V	51	115	2	-0.09	-0.09	ppb	204	19.66	550	
Cr	52	115	2	0.08	0.08	ppb	1515	4.52	550	
Mn	55	115	2	0.11	0.11	ppb	860	5.24	2750	
Fe	56	115	2	16.79	16.79	ppb	164398	1.33	220000	
Co	59	115	2	0.01	0.01	ppb	208	28.26	550	
Ni	60	115	2	0.01	0.01	ppb	213	6.81	550	
Cu	65	115	2	-0.19	-0.19	ppb	1990	8.47	2750	
Zn	66	115	2	-0.18	-0.18	ppb	594	9.65	2750	
As	75	115	2	0.00	0.00	ppb	31	32.03	550	
Se	78	115	2	-0.16	-0.16	ppb	62	8.10	2750	
Mo	95	115	1	0.04	0.04	ppb	965	6.09	550	
Ag	107	115	1	0.31	0.31	ppb	13523	11.33	550	
Cd	111	115	1	0.00	0.00	ppb	61	14.20	550	
Sb	121	115	1	-0.17	-0.17	ppb	1162	6.89	550	
Ba	137	159	1	-0.01	-0.01	ppb	526	15.04	2750	
Tl	205	165	1	0.00	0.00	ppb	1824	2.94	550	
Pb	208	165	1	-0.04	-0.04	ppb	8560	2.20	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1345344	1.98	1616505	83.2	70	130	
Sc	45	2	46046	1.58	53187	86.6	70	130	
In	115	1	1897103	0.60	2034272	93.3	70	130	
In	115	2	377723	1.15	383032	98.6	70	130	
Tb	159	1	2220583	1.25	2375564	93.5	70	130	
Tb	159	2	1095726	0.10	1093392	100.2	70	130	
Ho	165	1	2124710	0.99	2250620	94.4	70	130	
Ho	165	2	1085999	0.38	1077785	100.8	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Continuing Calibration Verification (CCV) - US EPA Method 6020

Sample Name	**CCV V-397371**
Data File Name	**0436CCV.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T13:31:10-04:00**
Type	**6-CCV**
VialNumber	**1201**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	Conc	Units	Expected	CPS	%RSD	%Rec	%QC Low	%QC High	QC Flag
Be	9	165	1	48.38	ppb	50	313475	0.71	96.76	90	110	
Na	23	115	2	4761.30	ppb	5000	5222388	0.22	95.23	90	110	
Mg	24	115	2	4830.09	ppb	5000	2390551	0.83	96.60	90	110	
Al	27	115	2	1419.13	ppb	1500	229208	0.82	94.61	90	110	
K	39	115	2	4778.08	ppb	5000	2645940	0.96	95.56	90	110	
Ca	44	115	2	4822.13	ppb	5000	137744	0.83	96.44	90	110	
V	51	115	2	48.14	ppb	50	410832	0.29	96.27	90	110	
Cr	52	115	2	48.74	ppb	50	518435	0.22	97.48	90	110	
Mn	55	115	2	48.57	ppb	50	254991	0.22	97.13	90	110	
Fe	56	115	2	4926.25	ppb	5000	41438425	0.38	98.53	90	110	
Co	59	115	2	47.70	ppb	50	882351	0.46	95.41	90	110	
Ni	60	115	2	49.37	ppb	50	239793	0.71	98.73	90	110	
Cu	65	115	2	49.91	ppb	50	334584	0.51	99.82	90	110	
Zn	66	115	2	49.74	ppb	50	81707	1.25	99.47	90	110	
As	75	115	2	48.91	ppb	50	58465	0.37	97.83	90	110	
Se	78	115	2	243.18	ppb	250	17974	0.51	97.27	90	110	
Mo	95	115	1	47.48	ppb	50	857588	0.74	94.96	90	110	
Ag	107	115	1	50.13	ppb	50	2173969	0.33	100.26	90	110	
Cd	111	115	1	49.23	ppb	50	379348	0.34	98.46	90	110	
Sb	121	115	1	49.78	ppb	50	1678685	0.10	99.55	90	110	
Ba	137	159	1	47.01	ppb	50	645941	1.12	94.01	90	110	
Tl	205	165	1	50.74	ppb	50	3077902	0.47	101.48	90	110	
Pb	208	165	1	50.48	ppb	50	2165196	0.60	100.96	90	110	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1486203	0.42	1616505	91.9	70	130	
Sc	45	2	46866	1.86	53187	88.1	70	130	
In	115	1	1948046	0.50	2034272	95.8	70	130	
In	115	2	368953	0.25	383032	96.3	70	130	
Tb	159	1	2326696	1.16	2375564	97.9	70	130	
Tb	159	2	1105952	0.86	1093392	101.1	70	130	
Ho	165	1	2208296	0.75	2250620	98.1	70	130	
Ho	165	2	1098419	0.78	1077785	101.9	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Continuing Calibration Blank (CCB) - US EPA Method 6020

Sample Name	**CCB V-397368**
Data File Name	**0446CCB.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T13:35:34-04:00**
Type	**6-CCB**
VialNumber	**1202**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	Units	QC High	QC Flag
Be	9	165	1	0.00	ppb	1	
Na	23	115	2	-15.21	ppb	500	
Mg	24	115	2	0.03	ppb	500	
Al	27	115	2	-0.24	ppb	500	
K	39	115	2	-9.56	ppb	500	
Ca	44	115	2	-3.82	ppb	500	
V	51	115	2	-0.07	ppb	1	
Cr	52	115	2	0.04	ppb	2	
Mn	55	115	2	0.02	ppb	6	
Fe	56	115	2	8.37	ppb	500	
Co	59	115	2	0.00	ppb	2	
Ni	60	115	2	0.01	ppb	3	
Cu	65	115	2	0.00	ppb	10	
Zn	66	115	2	-0.24	ppb	20	
As	75	115	2	0.01	ppb	1	
Se	78	115	2	0.00	ppb	10	
Mo	95	115	1	0.10	ppb	1	
Ag	107	115	1	0.17	ppb	1	
Cd	111	115	1	0.00	ppb	2	
Sb	121	115	1	-0.02	ppb	4	
Ba	137	159	1	-0.02	ppb	5	
Tl	205	165	1	0.02	ppb	2	
Pb	208	165	1	-0.11	ppb	2	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1398503	1.74	1616505	86.5	70	130	
Sc	45	2	45735	1.05	53167	86.0	70	130	
In	115	1	1944927	0.62	2034272	95.6	70	130	
In	115	2	362247	0.56	383032	94.6	70	130	
Tb	159	1	2336754	0.45	2375564	98.4	70	130	
Tb	159	2	1088422	0.15	1093392	99.5	70	130	
Ho	165	1	2217906	1.04	2250620	98.5	70	130	
Ho	165	2	1079720	0.41	1077785	100.2	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38540-011**
Data File Name	**045SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T13:40:06-04:00**
Type	**Sample**
VialNumber	**2305**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	1.54	1.54	ppb	10503	1.22	550	
Na	23	115	2	81.26	81.26	ppb	120336	1.49	220000	
Mg	24	115	2	1171.42	1171.42	ppb	572218	1.16	220000	
Al	27	115	2	7463.96	7463.96	ppb	1188110	0.74	181500	
K	39	115	2	2515.41	2515.41	ppb	1389172	1.16	220000	
Ca	44	115	2	1337.78	1337.78	ppb	37917	1.92	220000	
V	51	115	2	73.28	73.28	ppb	616365	1.16	550	
Cr	52	115	2	133.94	133.94	ppb	1404191	1.94	550	
Mn	55	115	2	192.91	192.91	ppb	998303	1.77	2750	
Fe	56	115	2	59461.06	59461.06	ppb	493088166	0.74	220000	
Co	59	115	2	8.21	8.21	ppb	149745	1.17	550	
Ni	60	115	2	8.40	8.40	ppb	40367	0.91	550	
Cu	65	115	2	5.48	5.48	ppb	39067	0.62	2750	
Zn	66	115	2	26.71	26.71	ppb	43684	1.00	2750	
As	75	115	2	41.26	41.26	ppb	48640	0.81	550	
Se	78	115	2	4.84	4.84	ppb	423	2.39	2750	
Mo	95	115	1	3.04	3.04	ppb	55752	0.88	550	
Ag	107	115	1	0.35	0.35	ppb	15888	7.57	550	
Cd	111	115	1	0.04	0.04	ppb	330	8.48	550	
Sb	121	115	1	0.90	0.90	ppb	37530	1.68	550	
Ba	137	159	1	19.42	19.42	ppb	276189	0.75	2750	
Tl	205	165	1	0.07	0.07	ppb	5992	3.56	550	
Pb	208	165	1	12.91	12.91	ppb	585234	0.51	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1893383	0.93	1616505	117.1	70	130	
Sc	45	2	59946	0.36	53187	112.7	70	130	
In	115	1	1966129	0.64	2034272	96.7	70	130	
In	115	2	363894	1.10	383032	95.0	70	130	
Tb	159	1	2404986	0.22	2375564	101.2	70	130	
Tb	159	2	1126204	0.45	1093392	103.0	70	130	
Ho	165	1	2301210	0.55	2250620	102.2	70	130	
Ho	165	2	1113839	1.00	1077785	103.3	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38537-002**
Data File Name	**046SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T13:44:32-04:00**
Type	**Sample**
VialNumber	**2306**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	1.01	1.01	ppb	7065	0.37	550	
Na	23	115	2	231.29	231.29	ppb	266471	1.05	220000	
Mg	24	115	2	11796.57	11796.57	ppb	5448002	0.61	220000	
Al	27	115	2	18903.47	18903.47	ppb	2847322	1.64	181500	
K	39	115	2	1851.91	1851.91	ppb	975814	0.66	220000	
Ca	44	115	2	278064.61	278064.61	ppb	7396100	0.48	220000	>LDR
V	51	115	2	38.05	38.05	ppb	303267	1.35	550	
Cr	52	115	2	27.56	27.56	ppb	273848	1.15	550	
Mn	55	115	2	2105.86	2105.86	ppb	10308712	0.35	2750	
Fe	56	115	2	46965.39	46965.39	ppb	368533652	0.45	220000	
Co	59	115	2	15.99	15.99	ppb	276014	1.19	550	
Ni	60	115	2	39.18	39.18	ppb	177644	0.79	550	
Cu	65	115	2	82.06	82.06	ppb	511426	0.48	2750	
Zn	66	115	2	279.26	279.26	ppb	424361	0.88	2750	
As	75	115	2	21.88	21.88	ppb	24418	1.96	550	
Se	78	115	2	7.74	7.74	ppb	599	3.66	2750	
Mo	95	115	1	3.51	3.51	ppb	60298	1.00	550	
Ag	107	115	1	0.36	0.36	ppb	15237	7.31	550	
Cd	111	115	1	0.86	0.86	ppb	6337	1.24	550	
Sb	121	115	1	0.48	0.48	ppb	21777	0.82	550	
Ba	137	159	1	150.18	150.18	ppb	2152731	0.40	2750	
Tl	205	165	1	0.28	0.28	ppb	19824	1.48	550	
Pb	208	165	1	157.70	157.70	ppb	7133111	0.80	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1958674	1.18	1616505	121.2	70	130	
Sc	45	2	61945	0.95	53187	116.5	70	130	
In	115	1	1844645	0.77	2034272	90.7	70	130	
In	115	2	344329	0.69	383032	89.9	70	130	
Tb	159	1	2428776	0.61	2375564	102.2	70	130	
Tb	159	2	1141719	0.74	1093392	104.4	70	130	
Ho	165	1	2336317	1.05	2250620	103.8	70	130	
Ho	165	2	1125627	0.73	1077785	104.4	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38537-003**
Data File Name	**047SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T13:48:56-04:00**
Type	**Sample**
VialNumber	**2307**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	1.16	1.16	ppb	8219	2.04	550	
Na	23	115	2	321.23	321.23	ppb	382171	0.94	220000	
Mg	24	115	2	7273.23	7273.23	ppb	3586512	0.69	220000	
Al	27	115	2	28067.52	28067.52	ppb	4513482	0.75	181500	
K	39	115	2	1652.08	1652.08	ppb	932987	1.48	220000	
Ca	44	115	2	5631.89	5631.89	ppb	160253	1.62	220000	
V	51	115	2	42.10	42.10	ppb	358143	1.46	550	
Cr	52	115	2	30.76	30.76	ppb	326229	1.68	550	
Mn	55	115	2	774.74	774.74	ppb	4049462	0.74	2750	
Fe	56	115	2	52364.42	52364.42	ppb	438692785	0.18	220000	
Co	59	115	2	16.49	16.49	ppb	303884	1.61	550	
Ni	60	115	2	39.29	39.29	ppb	190205	1.19	550	
Cu	65	115	2	70.42	70.42	ppb	469071	0.58	2750	
Zn	66	115	2	121.96	121.96	ppb	198363	0.91	2750	
As	75	115	2	13.79	13.79	ppb	16443	0.30	550	
Se	78	115	2	7.05	7.05	ppb	589	4.56	2750	
Mo	95	115	1	2.69	2.69	ppb	49174	0.91	550	
Ag	107	115	1	0.25	0.25	ppb	11200	4.67	550	
Cd	111	115	1	0.24	0.24	ppb	1915	2.62	550	
Sb	121	115	1	0.06	0.06	ppb	8886	0.94	550	
Ba	137	159	1	93.39	93.39	ppb	1383469	1.20	2750	
Tl	205	165	1	0.19	0.19	ppb	14300	2.81	550	
Pb	208	165	1	26.54	26.54	ppb	1229597	1.22	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	2013155	1.43	1616505	124.5	70	130	
Sc	45	2	64044	1.44	53187	120.4	70	130	
In	115	1	1960057	0.84	2034272	96.4	70	130	
In	115	2	367630	0.79	383032	96.0	70	130	
Tb	159	1	2509570	0.24	2375564	105.6	70	130	
Tb	159	2	1183472	1.03	1093392	108.2	70	130	
Ho	165	1	2375241	0.38	2250620	105.5	70	130	
Ho	165	2	1171564	0.98	1077785	108.7	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38537-004**
Data File Name	**048SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T13:53:23-04:00**
Type	**Sample**
VialNumber	**2308**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	1.54	1.54	ppb	10649	3.21	550	
Na	23	115	2	384.72	384.72	ppb	451360	0.62	220000	
Mg	24	115	2	1442.58	1442.58	ppb	712186	0.82	220000	
Al	27	115	2	16429.83	16429.83	ppb	2643562	2.02	181500	
K	39	115	2	2252.06	2252.06	ppb	1260838	2.42	220000	
Ca	44	115	2	14196.85	14196.85	ppb	403712	1.21	220000	
V	51	115	2	60.87	60.87	ppb	517708	1.11	550	
Cr	52	115	2	23.04	23.04	ppb	244686	0.87	550	
Mn	55	115	2	411.05	411.05	ppb	2149814	0.90	2750	
Fe	56	115	2	22455.81	22455.81	ppb	188253031	1.07	220000	
Co	59	115	2	18.40	18.40	ppb	339248	1.43	550	
Ni	60	115	2	38.80	38.80	ppb	187892	1.24	550	
Cu	65	115	2	145.29	145.29	ppb	964929	1.22	2750	
Zn	66	115	2	338.06	338.06	ppb	548643	1.46	2750	
As	75	115	2	45.90	45.90	ppb	54694	0.99	550	
Se	78	115	2	8.63	8.63	ppb	706	4.77	2750	
Mo	95	115	1	7.14	7.14	ppb	131058	1.52	550	
Ag	107	115	1	0.51	0.51	ppb	22952	3.38	550	
Cd	111	115	1	1.26	1.26	ppb	9858	1.67	550	
Sb	121	115	1	2.23	2.23	ppb	82712	1.05	550	
Ba	137	159	1	288.75	288.75	ppb	4186290	0.76	2750	
Tl	205	165	1	0.65	0.65	ppb	43042	1.23	550	
Pb	208	165	1	528.79	528.79	ppb	23864942	0.95	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	2077595	1.36	1616505	128.5	70	130	
Sc	45	2	65645	0.50	53187	123.4	70	130	
In	115	1	1974710	0.55	2034272	97.1	70	130	
In	115	2	367870	1.60	383032	96.0	70	130	
Tb	159	1	2456895	0.86	2375564	103.4	70	130	
Tb	159	2	1162340	1.20	1093392	106.3	70	130	
Ho	165	1	2333705	0.58	2250620	103.7	70	130	
Ho	165	2	1145781	1.24	1077785	106.3	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38537-005**
Data File Name	**049SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T13:57:47-04:00**
Type	**Sample**
VialNumber	**2309**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	1.33	1.33	ppb	9614	3.98	550	
Na	23	115	2	627.79	627.79	ppb	673139	1.00	220000	
Mg	24	115	2	56386.13	56386.13	ppb	26169862	0.39	220000	
Al	27	115	2	29768.84	29768.84	ppb	4506514	1.16	181500	
K	39	115	2	2051.88	2051.88	ppb	1083382	1.12	220000	
Ca	44	115	2	94938.51	94938.51	ppb	2537979	0.14	220000	
V	51	115	2	49.38	49.38	ppb	395341	1.22	550	
Cr	52	115	2	34.65	34.65	ppb	345839	0.28	550	
Mn	55	115	2	1818.18	1818.18	ppb	8945140	0.16	2750	
Fe	56	115	2	62727.85	62727.85	ppb	494676215	0.54	220000	
Co	59	115	2	20.16	20.16	ppb	349858	0.98	550	
Ni	60	115	2	48.91	48.91	ppb	222843	0.53	550	
Cu	65	115	2	83.39	83.39	ppb	522315	1.11	2750	
Zn	66	115	2	142.51	142.51	ppb	218069	1.02	2750	
As	75	115	2	18.88	18.88	ppb	21185	0.27	550	
Se	78	115	2	10.63	10.63	ppb	802	1.15	2750	
Mo	95	115	1	1.54	1.54	ppb	26807	1.61	550	
Ag	107	115	1	0.25	0.25	ppb	10510	7.71	550	
Cd	111	115	1	0.22	0.22	ppb	1639	4.26	550	
Sb	121	115	1	0.16	0.16	ppb	11702	3.47	550	
Ba	137	159	1	154.66	154.66	ppb	2326545	0.28	2750	
Tl	205	165	1	0.16	0.16	ppb	12422	3.35	550	
Pb	208	165	1	22.67	22.67	ppb	1077493	0.84	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	2379508	1.75	1616505	147.2	70	130	IS Fail
Sc	45	2	74721	0.49	53187	140.5	70	130	IS Fail
In	115	1	1856506	0.21	2034272	91.3	70	130	
In	115	2	346108	1.68	383032	90.4	70	130	
Tb	159	1	2548858	0.41	2375564	107.3	70	130	
Tb	159	2	1199263	1.28	1093392	109.7	70	130	
Ho	165	1	2432759	0.95	2250620	108.1	70	130	
Ho	165	2	1185848	0.87	1077785	110.0	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38537-006**
Data File Name	**050SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T14:02:14-04:00**
Type	**Sample**
VialNumber	**2310**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	3.05	3.05	ppb	21873	1.32	550	
Na	23	115	2	557.10	557.10	ppb	636923	0.89	220000	
Mg	24	115	2	5445.27	5445.27	ppb	2679467	1.19	220000	
Al	27	115	2	34901.63	34901.63	ppb	5600171	0.67	181500	
K	39	115	2	2682.00	2682.00	ppb	1490952	1.39	220000	
Ca	44	115	2	17786.96	17786.96	ppb	504310	1.17	220000	
V	51	115	2	84.18	84.18	ppb	713555	0.88	550	
Cr	52	115	2	38.19	38.19	ppb	403998	0.49	550	
Mn	55	115	2	3189.93	3189.93	ppb	16636022	0.37	2750	>LDR
Fe	56	115	2	42565.38	42565.36	ppb	355838066	0.62	220000	
Co	59	115	2	22.18	22.18	ppb	407918	1.05	550	
Ni	60	115	2	57.98	57.98	ppb	279991	0.88	550	
Cu	65	115	2	221.63	221.63	ppb	1466163	0.67	2750	
Zn	66	115	2	243.55	243.55	ppb	394405	1.19	2750	
As	75	115	2	41.24	41.24	ppb	49013	0.67	550	
Se	78	115	2	10.94	10.94	ppb	872	4.20	2750	
Mo	95	115	1	6.93	6.93	ppb	125260	0.41	550	
Ag	107	115	1	0.40	0.40	ppb	17737	3.28	550	
Cd	111	115	1	0.44	0.44	ppb	3457	2.22	550	
Sb	121	115	1	1.34	1.34	ppb	51864	0.10	550	
Ba	137	159	1	295.09	295.09	ppb	4471481	0.48	2750	
Tl	205	165	1	0.54	0.54	ppb	37993	1.01	550	
Pb	208	165	1	174.33	174.33	ppb	8193942	0.89	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	2609097	1.55	1616505	161.4	70	130	IS Fail
Sc	45	2	82842	0.86	53187	155.8	70	130	IS Fail
In	115	1	1946545	0.30	2034272	95.7	70	130	
In	115	2	366826	0.57	383032	95.8	70	130	
Tb	159	1	2567889	0.22	2375564	108.1	70	130	
Tb	159	2	1210411	0.48	1093392	110.7	70	130	
Ho	165	1	2428141	0.21	2250620	107.9	70	130	
Ho	165	2	1191016	0.21	1077785	110.5	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38537-007**
Data File Name	**051SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T14:06:55-04:00**
Type	**Sample**
VialNumber	**2311**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	1.34	1.34	ppb	9592	1.13	550	
Na	23	115	2	220.02	220.02	ppb	259835	1.31	220000	
Mg	24	115	2	10908.72	10908.72	ppb	5133391	0.88	220000	
Al	27	115	2	26098.33	26098.33	ppb	4005158	0.67	181500	
K	39	115	2	2460.80	2460.80	ppb	1310946	1.10	220000	
Ca	44	115	2	78894.48	78894.48	ppb	2138337	0.96	220000	
V	51	115	2	61.02	61.02	ppb	494972	0.37	550	
Cr	52	115	2	40.22	40.22	ppb	406963	1.16	550	
Mn	55	115	2	1712.84	1712.84	ppb	8543628	0.67	2750	
Fe	56	115	2	65155.10	65155.10	ppb	520935579	0.70	220000	
Co	59	115	2	20.90	20.90	ppb	367688	0.81	550	
Ni	60	115	2	52.43	52.43	ppb	242134	0.65	550	
Cu	65	115	2	158.23	158.23	ppb	1001991	0.77	2750	
Zn	66	115	2	335.75	335.75	ppb	519704	1.02	2750	
As	75	115	2	29.39	29.39	ppb	33421	1.51	550	
Se	78	115	2	9.01	9.01	ppb	699	2.55	2750	
Mo	95	115	1	3.37	3.37	ppb	60353	0.85	550	
Ag	107	115	1	0.44	0.44	ppb	19140	3.40	550	
Cd	111	115	1	1.18	1.18	ppb	9041	1.22	550	
Sb	121	115	1	1.06	1.06	ppb	41706	0.78	550	
Ba	137	159	1	234.62	234.62	ppb	3500741	0.35	2750	
Tl	205	165	1	0.42	0.42	ppb	29400	3.18	550	
Pb	208	165	1	410.62	410.62	ppb	19056719	0.27	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	2102241	0.40	1616505	130.0	70	130	IS Fail
Sc	45	2	64971	1.43	53187	122.2	70	130	
In	115	1	1923441	0.89	2034272	94.6	70	130	
In	115	2	350849	1.03	383032	91.6	70	130	
Tb	159	1	2528474	0.57	2375564	106.4	70	130	
Tb	159	2	1182650	1.29	1093392	108.2	70	130	
Ho	165	1	2399389	0.27	2250620	106.6	70	130	
Ho	165	2	1162939	0.65	1077785	107.9	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38537-008**
Data File Name	**052SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T14:11:18-04:00**
Type	**Sample**
VialNumber	**2312**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	1.01	1.01	ppb	7218	2.87	550	
Na	23	115	2	364.86	364.86	ppb	421986	0.51	220000	
Mg	24	115	2	9451.80	9451.80	ppb	4578605	0.77	220000	
Al	27	115	2	22629.36	22629.36	ppb	3575089	1.24	181500	
K	39	115	2	2176.71	2176.71	ppb	1197430	1.21	220000	
Ca	44	115	2	18277.24	18277.24	ppb	510209	1.09	220000	
V	51	115	2	50.11	50.11	ppb	418625	1.22	550	
Cr	52	115	2	28.90	28.90	ppb	301168	1.37	550	
Mn	55	115	2	1820.24	1820.24	ppb	9346231	0.55	2750	
Fe	56	115	2	56561.33	56561.33	ppb	465515522	0.46	220000	
Co	59	115	2	19.76	19.76	ppb	357723	1.07	550	
Ni	60	115	2	46.32	48.32	ppb	229759	0.27	550	
Cu	65	115	2	75.47	75.47	ppb	493596	0.90	2750	
Zn	66	115	2	121.18	121.18	ppb	193631	1.06	2750	
As	75	115	2	15.19	15.19	ppb	17795	0.71	550	
Se	78	115	2	8.88	8.88	ppb	711	6.90	2750	
Mo	95	115	1	1.31	1.31	ppb	23651	0.73	550	
Ag	107	115	1	0.18	0.18	ppb	8105	6.27	550	
Cd	111	115	1	0.17	0.17	ppb	1320	2.69	550	
Sb	121	115	1	0.13	0.13	ppb	10933	1.02	550	
Ba	137	159	1	105.02	105.02	ppb	1558510	0.75	2750	
Tl	205	165	1	0.15	0.15	ppb	11348	2.40	550	
Pb	208	165	1	45.63	45.63	ppb	2127873	0.77	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	2130140	0.61	1616505	131.8	70	130	IS Fail
Sc	45	2	67609	1.05	53187	127.1	70	130	
In	115	1	1930847	1.53	2034272	94.9	70	130	
In	115	2	361162	0.78	383032	94.3	70	130	
Tb	159	1	2514118	1.07	2375564	105.8	70	130	
Tb	159	2	1181459	0.56	1093392	108.1	70	130	
Ho	165	1	2399813	0.73	2250620	106.6	70	130	
Ho	165	2	1168166	0.65	1077785	108.4	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38537-001 5X**
Data File Name	**053SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T14:15:42-04:00**
Type	**Sample**
VialNumber	**2201**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.19	0.19	ppb	1340	6.38	550	
Na	23	115	2	20.86	20.86	ppb	56453	17.74	220000	
Mg	24	115	2	2127.81	2127.81	ppb	1059203	2.79	220000	
Al	27	115	2	5308.52	5308.52	ppb	861575	1.11	181500	
K	39	115	2	565.91	565.91	ppb	344153	0.92	220000	
Ca	44	115	2	611.99	611.99	ppb	17856	2.98	220000	
V	51	115	2	9.05	9.05	ppb	78417	0.20	550	
Cr	52	115	2	7.40	7.40	ppb	79699	2.10	550	
Mn	55	115	2	522.87	522.87	ppb	2758041	1.24	2750	
Fe	56	115	2	18026.49	18026.49	ppb	152407000	0.43	220000	
Co	59	115	2	5.43	5.43	ppb	101061	1.39	550	
Ni	60	115	2	11.57	11.57	ppb	56611	1.50	550	
Cu	65	115	2	26.24	26.24	ppb	178362	0.48	2750	
Zn	66	115	2	36.33	36.33	ppb	60237	0.48	2750	
As	75	115	2	4.63	4.63	ppb	5585	2.38	550	
Se	78	115	2	0.82	0.82	ppb	134	10.55	2750	
Mo	95	115	1	0.21	0.21	ppb	3948	4.18	550	
Ag	107	115	1	0.06	0.06	ppb	2739	9.12	550	
Cd	111	115	1	0.04	0.04	ppb	370	3.61	550	
Sb	121	115	1	-0.13	-0.13	ppb	2481	9.04	550	
Ba	137	159	1	21.85	21.85	ppb	297395	0.20	2750	
Tl	205	165	1	0.04	0.04	ppb	3777	6.00	550	
Pb	208	165	1	3.39	3.39	ppb	152279	0.31	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1586267	0.74	1616505	98.1	70	130	
Sc	45	2	52689	0.23	53187	99.1	70	130	
In	115	1	1902216	0.80	2034272	93.5	70	130	
In	115	2	370988	1.17	383032	96.9	70	130	
Tb	159	1	2302546	1.77	2375564	96.9	70	130	
Tb	159	2	1101031	0.95	1093392	100.7	70	130	
Ho	165	1	2168690	0.09	2250620	96.4	70	130	
Ho	165	2	1095567	0.25	1077785	101.6	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Printed at: 2:17 PM on:6/15/2023

Sample Report

Sample Name	**RINSE**
Data File Name	**054SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T14:20:11-04:00**
Type	**Sample**
VialNumber	**1101**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.00	0.00	ppb	126	21.62	550	
Na	23	115	2	-9.09	-9.09	ppb	24227	0.83	220000	
Mg	24	115	2	2.35	2.35	ppb	1742	4.38	220000	
Al	27	115	2	2.81	2.81	ppb	659	10.66	181500	
K	39	115	2	-4.86	-4.86	ppb	30968	0.21	220000	
Ca	44	115	2	1.24	1.24	ppb	360	12.25	220000	
V	51	115	2	-0.09	-0.09	ppb	173	18.94	550	
Cr	52	115	2	0.07	0.07	ppb	1435	1.07	550	
Mn	55	115	2	0.13	0.13	ppb	979	3.44	2750	
Fe	56	115	2	16.10	16.10	ppb	159129	2.31	220000	
Co	59	115	2	0.01	0.01	ppb	234	21.10	550	
Ni	60	115	2	0.02	0.02	ppb	252	11.55	550	
Cu	65	115	2	-0.27	-0.27	ppb	1451	6.56	2750	
Zn	66	115	2	-0.22	-0.22	ppb	527	3.52	2750	
As	75	115	2	0.01	0.01	ppb	35	34.06	550	
Se	78	115	2	0.03	0.03	ppb	77	1.66	2750	
Mo	95	115	1	0.03	0.03	ppb	869	5.95	550	
Ag	107	115	1	0.21	0.21	ppb	9033	14.09	550	
Cd	111	115	1	0.00	0.00	ppb	60	13.98	550	
Sb	121	115	1	-0.18	-0.18	ppb	752	1.28	550	
Ba	137	159	1	-0.01	-0.01	ppb	514	2.45	2750	
Tl	205	165	1	0.00	0.00	ppb	1648	6.29	550	
Pb	208	165	1	-0.02	-0.02	ppb	8985	3.49	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1409053	0.72	1616505	87.2	70	130	
Sc	45	2	46447	1.03	53187	87.3	70	130	
In	115	1	1885975	1.12	2034272	92.7	70	130	
In	115	2	379482	0.93	383032	99.1	70	130	
Tb	159	1	2207831	0.51	2375564	92.9	70	130	
Tb	159	2	1083394	0.92	1093392	99.1	70	130	
Ho	165	1	2071880	0.54	2250620	92.1	70	130	
Ho	165	2	1067653	0.63	1077785	99.1	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Continuing Calibration Verification (CCV) - US EPA Method 6020

Sample Name	**CCV V-397371**
Data File Name	**0556CCV.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T14:24:40-04:00**
Type	**6-CCV**
VialNumber	**1201**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	Conc	Units	Expected	CPS	%RSD	%Rec	%QC Low	%QC High	QC Flag
Be	9	165	1	48.90	ppb	50	311213	1.16	97.81	90	110	
Na	23	115	2	4771.17	ppb	5000	5182871	0.66	95.42	90	110	
Mg	24	115	2	4836.37	ppb	5000	2370662	1.64	96.73	90	110	
Al	27	115	2	1427.88	ppb	1500	228410	1.80	95.19	90	110	
K	39	115	2	4792.41	ppb	5000	2628242	0.78	95.85	90	110	
Ca	44	115	2	4799.40	ppb	5000	135790	1.77	95.99	90	110	
V	51	115	2	48.35	ppb	50	408656	0.59	96.70	90	110	
Cr	52	115	2	48.70	ppb	50	513022	0.87	97.39	90	110	
Mn	55	115	2	48.61	ppb	50	252792	1.50	97.22	90	110	
Fe	56	115	2	4941.04	ppb	5000	41163190	1.23	98.82	90	110	
Co	59	115	2	48.09	ppb	50	880918	0.74	96.18	90	110	
Ni	60	115	2	49.93	ppb	50	240178	0.07	99.86	90	110	
Cu	65	115	2	49.80	ppb	50	330656	0.41	99.61	90	110	
Zn	66	115	2	49.66	ppb	50	80797	1.51	99.31	90	110	
As	75	115	2	49.02	ppb	50	58032	0.89	98.05	90	110	
Se	78	115	2	245.87	ppb	250	18000	2.15	98.35	90	110	
Mo	95	115	1	47.12	ppb	50	844081	1.39	94.24	90	110	
Ag	107	115	1	50.94	ppb	50	2190623	1.05	101.87	90	110	
Cd	111	115	1	49.04	ppb	50	374737	1.38	98.07	90	110	
Sb	121	115	1	49.54	ppb	50	1657003	1.59	99.08	90	110	
Ba	137	159	1	47.46	ppb	50	633520	0.58	94.92	90	110	
Tl	205	165	1	50.68	ppb	50	3019292	0.89	101.35	90	110	
Pb	208	165	1	50.57	ppb	50	2130395	0.50	101.14	90	110	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1492811	1.81	1616505	92.3	70	130	
Sc	45	2	46686	1.67	53187	87.8	70	130	
In	115	1	1932029	0.45	2034272	95.0	70	130	
In	115	2	365428	1.21	383032	95.4	70	130	
Tb	159	1	2260064	0.85	2375564	95.1	70	130	
Tb	159	2	1090280	1.76	1093392	99.7	70	130	
Ho	165	1	2168915	0.70	2250620	96.4	70	130	
Ho	165	2	1079230	1.80	1077785	100.1	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Continuing Calibration Blank (CCB) - US EPA Method 6020

Sample Name	**CCB V-397368**
Data File Name	**0566CCB.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T14:29:04-04:00**
Type	**6-CCB**
VialNumber	**1202**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	Units	QC High	QC Flag
Be	9	165	1	0.01	ppb	1	
Na	23	115	2	-15.37	ppb	500	
Mg	24	115	2	0.22	ppb	500	
Al	27	115	2	-0.27	ppb	500	
K	39	115	2	-8.00	ppb	500	
Ca	44	115	2	-4.76	ppb	500	
V	51	115	2	-0.06	ppb	1	
Cr	52	115	2	0.04	ppb	2	
Mn	55	115	2	0.02	ppb	6	
Fe	56	115	2	8.97	ppb	500	
Co	59	115	2	0.00	ppb	2	
Ni	60	115	2	0.00	ppb	3	
Cu	65	115	2	-0.20	ppb	10	
Zn	66	115	2	-0.24	ppb	20	
As	75	115	2	0.03	ppb	1	
Se	78	115	2	0.12	ppb	10	
Mo	95	115	1	0.10	ppb	1	
Ag	107	115	1	0.12	ppb	1	
Cd	111	115	1	0.00	ppb	2	
Sb	121	115	1	-0.02	ppb	4	
Ba	137	159	1	-0.01	ppb	5	
Tl	205	165	1	0.02	ppb	2	
Pb	208	165	1	-0.11	ppb	2	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1432831	0.31	1616505	88.6	70	130	
Sc	45	2	44003	0.82	53187	82.7	70	130	
In	115	1	1901866	0.40	2034272	93.5	70	130	
In	115	2	361396	0.59	383032	94.4	70	130	
Tb	159	1	2282761	0.65	2375564	96.1	70	130	
Tb	159	2	1071134	0.54	1093392	98.0	70	130	
Ho	165	1	2164441	0.96	2250620	96.2	70	130	
Ho	165	2	1061229	0.33	1077785	98.5	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38537-001 MR 5X**
Data File Name	**057SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T14:33:35-04:00**
Type	**Sample**
VialNumber	**2202**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.20	0.20	ppb	1350	4.08	550	
Na	23	115	2	12.78	12.78	ppb	46807	0.36	220000	
Mg	24	115	2	2357.22	2357.22	ppb	1152706	1.57	220000	
Al	27	115	2	5391.85	5391.85	ppb	859705	1.37	181500	
K	39	115	2	527.89	527.89	ppb	317542	1.11	220000	
Ca	44	115	2	788.75	788.75	ppb	22515	1.11	220000	
V	51	115	2	9.76	9.76	ppb	83010	1.21	550	
Cr	52	115	2	7.56	7.56	ppb	80038	1.59	550	
Mn	55	115	2	547.30	547.30	ppb	2836059	1.81	2750	
Fe	56	115	2	18439.21	18439.21	ppb	153143232	0.37	220000	
Co	59	115	2	5.82	5.82	ppb	106437	0.67	550	
Ni	60	115	2	11.49	11.49	ppb	55257	2.02	550	
Cu	65	115	2	24.74	24.74	ppb	165427	1.22	2750	
Zn	66	115	2	34.09	34.09	ppb	55583	0.78	2750	
As	75	115	2	4.50	4.50	ppb	5337	2.75	550	
Se	78	115	2	1.07	1.07	ppb	150	10.43	2750	
Mo	95	115	1	0.21	0.21	ppb	4006	3.38	550	
Ag	107	115	1	0.05	0.05	ppb	2669	7.83	550	
Cd	111	115	1	0.04	0.04	ppb	354	3.49	550	
Sb	121	115	1	-0.10	-0.10	ppb	3302	2.33	550	
Ba	137	159	1	21.38	21.38	ppb	285750	0.57	2750	
Tl	205	165	1	0.04	0.04	ppb	3636	4.04	550	
Pb	208	165	1	3.05	3.05	ppb	136500	0.22	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1649843	1.33	1616505	102.1	70	130	
Sc	45	2	52517	2.29	53187	98.7	70	130	
In	115	1	1876896	1.13	2034272	92.3	70	130	
In	115	2	364465	1.70	383032	95.2	70	130	
Tb	159	1	2259665	0.54	2375564	95.1	70	130	
Tb	159	2	1089131	0.95	1093392	99.6	70	130	
Ho	165	1	2141226	0.67	2250620	95.1	70	130	
Ho	165	2	1074313	1.11	1077785	99.7	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Printed at: 2:35 PM on:6/15/2023

Sample Report

Sample Name	**AD38537-001 SD 5X**
Data File Name	**058SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T14:38:03-04:00**
Type	**Sample**
VialNumber	**2206**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.04	0.04	ppb	379	12.36	550	
Na	23	115	2	-0.74	-0.74	ppb	32762	6.46	220000	
Mg	24	115	2	432.57	432.57	ppb	215265	0.95	220000	
Al	27	115	2	1109.63	1109.63	ppb	179846	1.52	181500	
K	39	115	2	114.43	114.43	ppb	95655	0.27	220000	
Ca	44	115	2	134.20	134.20	ppb	4154	4.32	220000	
V	51	115	2	1.75	1.75	ppb	15915	2.59	550	
Cr	52	115	2	1.46	1.46	ppb	16232	2.25	550	
Mn	55	115	2	104.40	104.40	ppb	549628	0.98	2750	
Fe	56	115	2	3719.82	3719.82	ppb	31395651	0.50	220000	
Co	59	115	2	1.10	1.10	ppb	20432	1.61	550	
Ni	60	115	2	2.36	2.36	ppb	11655	3.04	550	
Cu	65	115	2	5.19	5.19	ppb	37785	1.25	2750	
Zn	66	115	2	9.05	9.05	ppb	15633	2.53	2750	
As	75	115	2	0.99	0.99	ppb	1210	2.79	550	
Se	78	115	2	0.21	0.21	ppb	88	1.92	2750	
Mo	95	115	1	0.05	0.05	ppb	1077	4.58	550	
Ag	107	115	1	0.03	0.03	ppb	1758	8.49	550	
Cd	111	115	1	0.01	0.01	ppb	81	15.65	550	
Sb	121	115	1	-0.15	-0.15	ppb	1545	11.11	550	
Ba	137	159	1	4.62	4.62	ppb	60201	0.59	2750	
Tl	205	165	1	0.00	0.00	ppb	1678	7.89	550	
Pb	208	165	1	0.67	0.67	ppb	36810	1.17	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1425389	0.58	1616505	88.2	70	130	
Sc	45	2	47570	0.89	53187	89.4	70	130	
In	115	1	1857035	0.30	2034272	91.3	70	130	
In	115	2	370161	1.12	383032	96.6	70	130	
Tb	159	1	2187067	0.77	2375564	92.1	70	130	
Tb	159	2	1079240	0.07	1093392	98.7	70	130	
Ho	165	1	2079412	0.92	2250620	92.4	70	130	
Ho	165	2	1068205	1.20	1077785	99.1	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

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Sample Report

Sample Name	**AD38537-001 MS 1 5X**
Data File Name	**059SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T14:42:33-04:00**
Type	**Sample**
VialNumber	**2203**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	49.46	49.46	ppb	310678	0.31	550	
Na	23	115	2	4633.80	4633.80	ppb	5162002	0.67	220000	
Mg	24	115	2	6885.72	6885.72	ppb	3460377	0.22	220000	
Al	27	115	2	5757.53	5757.53	ppb	943715	0.27	181500	
K	39	115	2	5044.82	5044.82	ppb	2835016	0.22	220000	
Ca	44	115	2	5420.71	5420.71	ppb	157196	1.03	220000	
V	51	115	2	56.52	56.52	ppb	489670	0.81	550	
Cr	52	115	2	55.04	55.04	ppb	594428	0.59	550	
Mn	55	115	2	752.78	752.78	ppb	4009921	0.88	2750	
Fe	56	115	2	19745.83	19745.83	ppb	168604444	0.70	220000	
Co	59	115	2	53.49	53.49	ppb	1004632	1.62	550	
Ni	60	115	2	59.21	59.21	ppb	292006	1.25	550	
Cu	65	115	2	72.70	72.70	ppb	493391	1.11	2750	
Zn	66	115	2	86.37	86.37	ppb	143424	1.60	2750	
As	75	115	2	54.17	54.17	ppb	65741	0.91	550	
Se	78	115	2	48.65	48.65	ppb	3710	0.87	2750	
Mo	95	115	1	46.76	46.76	ppb	819938	0.75	550	
Ag	107	115	1	9.07	9.07	ppb	382121	0.92	550	
Cd	111	115	1	48.13	48.13	ppb	360068	0.45	550	
Sb	121	115	1	30.09	30.09	ppb	987721	1.22	550	
Ba	137	159	1	68.28	68.28	ppb	913282	0.80	2750	
Tl	205	165	1	48.65	48.65	ppb	2861568	0.75	550	
Pb	208	165	1	53.02	53.02	ppb	2204503	0.56	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1633123	0.22	1616505	101.0	70	130	
Sc	45	2	54227	2.40	53187	102.0	70	130	
In	115	1	1891427	0.37	2034272	93.0	70	130	
In	115	2	374661	0.34	383032	97.8	70	130	
Tb	159	1	2265359	0.42	2375564	95.4	70	130	
Tb	159	2	1103519	0.79	1093392	100.9	70	130	
Ho	165	1	2141142	0.68	2250620	95.1	70	130	
Ho	165	2	1087818	0.37	1077785	100.9	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38537-001 MS 2 5X**
Data File Name	**060SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T14:46:57-04:00**
Type	**Sample**
VialNumber	**2204**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	48.34	48.34	ppb	302547	0.57	550	
Na	23	115	2	4540.87	4540.87	ppb	5082266	0.56	220000	
Mg	24	115	2	6641.64	6641.64	ppb	3352981	0.55	220000	
Al	27	115	2	5466.66	5466.66	ppb	900116	0.32	181500	
K	39	115	2	4920.16	4920.16	ppb	2778336	0.39	220000	
Ca	44	115	2	5346.37	5346.37	ppb	155752	0.43	220000	
V	51	115	2	54.58	54.58	ppb	475006	0.31	550	
Cr	52	115	2	53.96	53.96	ppb	585386	0.83	550	
Mn	55	115	2	560.35	560.35	ppb	2998519	0.50	2750	
Fe	56	115	2	18709.98	18709.98	ppb	160486531	1.05	220000	
Co	59	115	2	51.84	51.84	ppb	978129	0.89	550	
Ni	60	115	2	58.33	58.33	ppb	288962	0.60	550	
Cu	65	115	2	69.62	69.62	ppb	474769	0.78	2750	
Zn	66	115	2	79.73	79.73	ppb	133069	0.09	2750	
As	75	115	2	59.49	59.49	ppb	72531	0.54	550	
Se	78	115	2	48.24	48.24	ppb	3696	3.94	2750	
Mo	95	115	1	46.17	46.17	ppb	804544	1.39	550	
Ag	107	115	1	8.90	8.90	ppb	372751	0.07	550	
Cd	111	115	1	47.75	47.75	ppb	354978	0.49	550	
Sb	121	115	1	30.14	30.14	ppb	983110	1.11	550	
Ba	137	159	1	67.30	67.30	ppb	892894	0.33	2750	
Tl	205	165	1	47.60	47.60	ppb	2789137	1.03	550	
Pb	208	165	1	52.66	52.66	ppb	2181565	0.87	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1563910	0.38	1616505	96.7	70	130	
Sc	45	2	51618	1.30	53187	97.0	70	130	
In	115	1	1879614	1.20	2034272	92.4	70	130	
In	115	2	376368	0.56	383032	98.3	70	130	
Tb	159	1	2247132	0.89	2375564	94.6	70	130	
Tb	159	2	1106435	0.17	1093392	101.2	70	130	
Ho	165	1	2133113	0.28	2250620	94.8	70	130	
Ho	165	2	1090581	0.47	1077785	101.2	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38537-001 PS 5X**
Data File Name	**061SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T14:51:19-04:00**
Type	**Sample**
VialNumber	**2205**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	49.08	49.08	ppb	302299	0.08	550	
Na	23	115	2	4623.70	4623.70	ppb	5128070	0.18	220000	
Mg	24	115	2	6778.43	6778.43	ppb	3391684	0.95	220000	
Al	27	115	2	6944.79	6944.79	ppb	1133400	1.66	181500	
K	39	115	2	5301.59	5301.59	ppb	2964511	0.90	220000	
Ca	44	115	2	5324.72	5324.72	ppb	153738	0.27	220000	
V	51	115	2	55.85	55.85	ppb	481781	0.38	550	
Cr	52	115	2	53.71	53.71	ppb	577484	0.21	550	
Mn	55	115	2	554.81	554.81	ppb	2942449	0.46	2750	
Fe	56	115	2	22001.61	22001.61	ppb	187028893	0.18	220000	
Co	59	115	2	50.92	50.92	ppb	952276	0.70	550	
Ni	60	115	2	58.02	58.02	ppb	284883	0.74	550	
Cu	65	115	2	71.76	71.76	ppb	484886	0.58	2750	
Zn	66	115	2	83.78	83.78	ppb	138527	0.57	2750	
As	75	115	2	51.96	51.96	ppb	62783	1.03	550	
Se	78	115	2	241.01	241.01	ppb	18015	3.00	2750	
Mo	95	115	1	47.47	47.47	ppb	806929	0.53	550	
Ag	107	115	1	49.56	49.56	ppb	2022705	0.89	550	
Cd	111	115	1	48.86	48.86	ppb	354286	0.58	550	
Sb	121	115	1	49.14	49.14	ppb	1559707	0.21	550	
Ba	137	159	1	68.17	68.17	ppb	884630	0.32	2750	
Tl	205	165	1	49.36	49.36	ppb	2845961	0.21	550	
Pb	208	165	1	52.97	52.97	ppb	2159047	0.76	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1576979	0.55	1616505	97.6	70	130	
Sc	45	2	52482	0.61	53187	98.7	70	130	
In	115	1	1833406	0.93	2034272	90.1	70	130	
In	115	2	373054	1.56	383032	97.4	70	130	
Tb	159	1	2197820	0.61	2375564	92.5	70	130	
Tb	159	2	1092860	0.51	1093392	100.0	70	130	
Ho	165	1	2099175	0.90	2250620	93.3	70	130	
Ho	165	2	1087800	0.76	1077785	100.9	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

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Sample Report

Sample Name	**AD38540-014 5X**
Data File Name	**062SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T14:55:43-04:00**
Type	**Sample**
VialNumber	**2207**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.25	0.25	ppb	1653	2.48	550	
Na	23	115	2	83.67	83.67	ppb	119987	1.05	220000	
Mg	24	115	2	4740.25	4740.25	ppb	2258238	0.57	220000	
Al	27	115	2	4856.15	4856.15	ppb	754563	0.92	181500	
K	39	115	2	493.78	493.78	ppb	291501	1.31	220000	
Ca	44	115	2	86347.24	86347.24	ppb	2369152	0.88	220000	
V	51	115	2	9.14	9.14	ppb	75883	1.19	550	
Cr	52	115	2	11.71	11.71	ppb	120342	0.36	550	
Mn	55	115	2	123.46	123.46	ppb	623632	1.21	2750	
Fe	56	115	2	4862.79	4862.79	ppb	39374752	0.77	220000	
Co	59	115	2	1.40	1.40	ppb	24920	2.39	550	
Ni	60	115	2	4.38	4.38	ppb	20637	0.60	550	
Cu	65	115	2	7.11	7.11	ppb	48567	0.84	2750	
Zn	66	115	2	122.19	122.19	ppb	192003	1.52	2750	
As	75	115	2	2.25	2.25	ppb	2619	1.61	550	
Se	78	115	2	0.66	0.66	ppb	117	9.18	2750	
Mo	95	115	1	1.41	1.41	ppb	24209	0.92	550	
Ag	107	115	1	0.06	0.06	ppb	2746	6.47	550	
Cd	111	115	1	0.10	0.10	ppb	738	1.02	550	
Sb	121	115	1	0.47	0.47	ppb	21282	1.81	550	
Ba	137	159	1	32.66	32.66	ppb	422370	0.49	2750	
Tl	205	165	1	0.06	0.06	ppb	5215	1.95	550	
Pb	208	165	1	11.06	11.06	ppb	456660	0.54	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1402475	0.68	1616505	86.8	70	130	
Sc	45	2	46289	2.70	53187	87.0	70	130	
In	115	1	1826990	0.49	2034272	89.8	70	130	
In	115	2	355154	0.75	383032	92.7	70	130	
Tb	159	1	2188319	0.34	2375564	92.1	70	130	
Tb	159	2	1078709	0.77	1093392	98.7	70	130	
Ho	165	1	2090359	1.26	2250620	92.9	70	130	
Ho	165	2	1062081	0.39	1077785	98.5	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38530-017 5X**
Data File Name	**063SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T15:00:12-04:00**
Type	**Sample**
VialNumber	**2208**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.27	0.27	ppb	1843	5.40	550	
Na	23	115	2	134.15	134.15	ppb	173269	0.58	220000	
Mg	24	115	2	1825.19	1825.19	ppb	871507	0.79	220000	
Al	27	115	2	5023.28	5023.28	ppb	782023	1.36	181500	
K	39	115	2	449.17	449.17	ppb	268541	1.95	220000	
Ca	44	115	2	20029.39	20029.39	ppb	550849	1.43	220000	
V	51	115	2	14.45	14.45	ppb	119611	1.39	550	
Cr	52	115	2	12.91	12.91	ppb	132894	1.37	550	
Mn	55	115	2	205.64	205.64	ppb	1040565	1.47	2750	
Fe	56	115	2	10760.53	10760.53	ppb	87273028	1.43	220000	
Co	59	115	2	3.15	3.15	ppb	56165	1.98	550	
Ni	60	115	2	7.79	7.79	ppb	36629	1.68	550	
Cu	65	115	2	31.07	31.07	ppb	202025	1.26	2750	
Zn	66	115	2	396.44	396.44	ppb	622221	1.34	2750	
As	75	115	2	4.65	4.65	ppb	5383	1.59	550	
Se	78	115	2	1.08	1.08	ppb	147	12.95	2750	
Mo	95	115	1	0.78	0.78	ppb	13636	2.84	550	
Ag	107	115	1	0.18	0.18	ppb	7864	3.98	550	
Cd	111	115	1	0.66	0.66	ppb	4861	1.55	550	
Sb	121	115	1	0.29	0.29	ppb	15728	0.81	550	
Ba	137	159	1	1298.53	1298.53	ppb	17178296	0.96	2750	
Tl	205	165	1	0.06	0.06	ppb	5247	0.79	550	
Pb	208	165	1	277.21	277.21	ppb	11470671	0.31	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1448324	0.87	1616505	89.6	70	130	
Sc	45	2	46974	2.76	53187	88.3	70	130	
In	115	1	1841944	1.19	2034272	90.5	70	130	
In	115	2	355833	1.16	383032	92.9	70	130	
Tb	159	1	2242117	0.76	2375564	94.4	70	130	
Tb	159	2	1090816	1.12	1093392	99.8	70	130	
Ho	165	1	2138700	0.58	2250620	95.0	70	130	
Ho	165	2	1078581	1.20	1077785	100.1	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38519-001 5X**
Data File Name	**064SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T15:04:41-04:00**
Type	**Sample**
VialNumber	**2209**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.15	0.15	ppb	1078	2.63	550	
Na	23	115	2	438.55	438.55	ppb	505117	0.69	220000	
Mg	24	115	2	332.45	332.45	ppb	163000	0.54	220000	
Al	27	115	2	1639.81	1639.81	ppb	261570	1.52	181500	
K	39	115	2	146.47	146.47	ppb	111493	1.56	220000	
Ca	44	115	2	884.27	884.27	ppb	25206	3.15	220000	
V	51	115	2	10.03	10.03	ppb	85293	0.90	550	
Cr	52	115	2	6.52	6.52	ppb	69049	1.10	550	
Mn	55	115	2	24.16	24.16	ppb	125401	0.60	2750	
Fe	56	115	2	6347.94	6347.94	ppb	52734469	0.64	220000	
Co	59	115	2	2.68	2.68	ppb	48967	0.83	550	
Ni	60	115	2	18.65	18.65	ppb	89581	1.33	550	
Cu	65	115	2	127.12	127.12	ppb	836756	0.80	2750	
Zn	66	115	2	66.81	66.81	ppb	108110	0.83	2750	
As	75	115	2	110.58	110.58	ppb	130509	0.35	550	
Se	78	115	2	6.56	6.56	ppb	549	0.42	2750	
Mo	95	115	1	1.24	1.24	ppb	21867	1.30	550	
Ag	107	115	1	0.22	0.22	ppb	9474	2.50	550	
Cd	111	115	1	0.21	0.21	ppb	1565	3.07	550	
Sb	121	115	1	51.58	51.58	ppb	1680506	0.16	550	
Ba	137	159	1	34.30	34.30	ppb	446899	0.30	2750	
Tl	205	165	1	1.74	1.74	ppb	101951	0.63	550	
Pb	208	165	1	1287.92	1287.92	ppb	52485344	0.29	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1418257	1.25	1616505	87.7	70	130	
Sc	45	2	46007	1.27	53187	86.5	70	130	
In	115	1	1882190	1.09	2034272	92.5	70	130	
In	115	2	364424	1.05	383032	95.1	70	130	
Tb	159	1	2205098	0.58	2375564	92.8	70	130	
Tb	159	2	1077799	1.18	1093392	98.6	70	130	
Ho	165	1	2107966	1.13	2250620	93.7	70	130	
Ho	165	2	1067150	0.63	1077785	99.0	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**RINSE**
Data File Name	**065SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T15:09:08-04:00**
Type	**Sample**
VialNumber	**1101**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.01	0.01	ppb	188	26.65	550	
Na	23	115	2	-8.30	-8.30	ppb	23953	0.73	220000	
Mg	24	115	2	2.25	2.25	ppb	1613	6.61	220000	
Al	27	115	2	2.68	2.68	ppb	607	12.92	181500	
K	39	115	2	-4.25	-4.25	ppb	29864	0.83	220000	
Ca	44	115	2	3.62	3.62	ppb	410	8.25	220000	
V	51	115	2	-0.10	-0.10	ppb	140	21.16	550	
Cr	52	115	2	0.10	0.10	ppb	1652	38.04	550	
Mn	55	115	2	0.14	0.14	ppb	941	2.49	2750	
Fe	56	115	2	13.42	13.42	ppb	129754	1.94	220000	
Co	59	115	2	0.02	0.02	ppb	327	21.72	550	
Ni	60	115	2	0.01	0.01	ppb	198	30.21	550	
Cu	65	115	2	-0.28	-0.28	ppb	1348	5.32	2750	
Zn	66	115	2	-0.12	-0.12	ppb	670	4.31	2750	
As	75	115	2	0.04	0.04	ppb	69	26.96	550	
Se	78	115	2	-0.10	-0.10	ppb	64	9.55	2750	
Mo	95	115	1	0.05	0.05	ppb	1147	3.78	550	
Ag	107	115	1	0.16	0.16	ppb	6857	16.08	550	
Cd	111	115	1	0.00	0.00	ppb	51	26.45	550	
Sb	121	115	1	-0.02	-0.02	ppb	5827	2.28	550	
Ba	137	159	1	0.00	0.00	ppb	568	5.91	2750	
Tl	205	165	1	0.02	0.02	ppb	2427	2.03	550	
Pb	208	165	1	0.01	0.01	ppb	10090	4.25	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1335308	0.68	1616505	82.6	70	130	
Sc	45	2	44385	1.11	53187	83.5	70	130	
In	115	1	1808741	0.59	2034272	88.9	70	130	
In	115	2	361975	1.11	383032	94.5	70	130	
Tb	159	1	2116091	1.46	2375564	89.2	70	130	
Tb	159	2	1052166	0.27	1093392	96.2	70	130	
Ho	165	1	2028772	0.41	2250620	90.1	70	130	
Ho	165	2	1040366	0.10	1077785	96.5	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Continuing Calibration Verification (CCV) - US EPA Method 6020

Sample Name	**CCV V-397371**
Data File Name	**0666CCV.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T15:13:40-04:00**
Type	**6-CCV**
VialNumber	**1201**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	Conc	Units	Expected	CPS	%RSD	%Rec	%QC Low	%QC High	QC Flag
Be	9	165	1	47.40	ppb	50	297349	1.08	94.80	90	110	
Na	23	115	2	4627.58	ppb	5000	4908919	0.33	92.55	90	110	
Mg	24	115	2	4741.78	ppb	5000	2269202	1.08	94.84	90	110	
Al	27	115	2	1384.23	ppb	1500	216196	0.82	92.28	90	110	
K	39	115	2	4661.21	ppb	5000	2496920	1.06	93.22	90	110	
Ca	44	115	2	4649.68	ppb	5000	128448	0.88	92.99	90	110	
V	51	115	2	46.97	ppb	50	387626	0.46	93.93	90	110	
Cr	52	115	2	47.66	ppb	50	490229	0.39	95.32	90	110	
Mn	55	115	2	47.85	ppb	50	242916	1.12	95.70	90	110	
Fe	56	115	2	4847.31	ppb	5000	39427065	0.30	96.95	90	110	
Co	59	115	2	46.78	ppb	50	836638	0.76	93.56	90	110	
Ni	60	115	2	48.39	ppb	50	227311	0.86	96.79	90	110	
Cu	65	115	2	48.74	ppb	50	316009	0.75	97.48	90	110	
Zn	66	115	2	48.75	ppb	50	77463	1.31	97.50	90	110	
As	75	115	2	48.25	ppb	50	55770	0.92	96.50	90	110	
Se	78	115	2	239.95	ppb	250	17153	1.93	95.98	90	110	
Mo	95	115	1	47.00	ppb	50	819046	0.99	94.01	90	110	
Ag	107	115	1	50.40	ppb	50	2108454	1.56	100.79	90	110	
Cd	111	115	1	48.94	ppb	50	363810	1.21	97.88	90	110	
Sb	121	115	1	49.98	ppb	50	1625972	0.42	99.95	90	110	
Ba	137	159	1	46.66	ppb	50	618754	1.82	93.33	90	110	
Tl	205	165	1	51.17	ppb	50	3005554	0.51	102.35	90	110	
Pb	208	165	1	50.51	ppb	50	2097736	1.54	101.02	90	110	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1487510	1.94	1616505	92.0	70	130	
Sc	45	2	45650	0.43	53187	85.8	70	130	
In	115	1	1879429	0.97	2034272	92.4	70	130	
In	115	2	356810	1.62	383032	93.2	70	130	
Tb	159	1	2244945	0.93	2375564	94.5	70	130	
Tb	159	2	1074996	0.84	1093392	98.3	70	130	
Ho	165	1	2138076	0.39	2250620	95.0	70	130	
Ho	165	2	1070934	0.57	1077785	99.4	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Continuing Calibration Blank (CCB) - US EPA Method 6020

Sample Name	**CCB V-397368**
Data File Name	**0676CCB.D**
DataPath	**C:\ICPMH\1\DATA\S061523A.b**
Acq Date Time	**2023-06-15T15:18:04-04:00**
Type	**6-CCB**
VialNumber	**1202**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

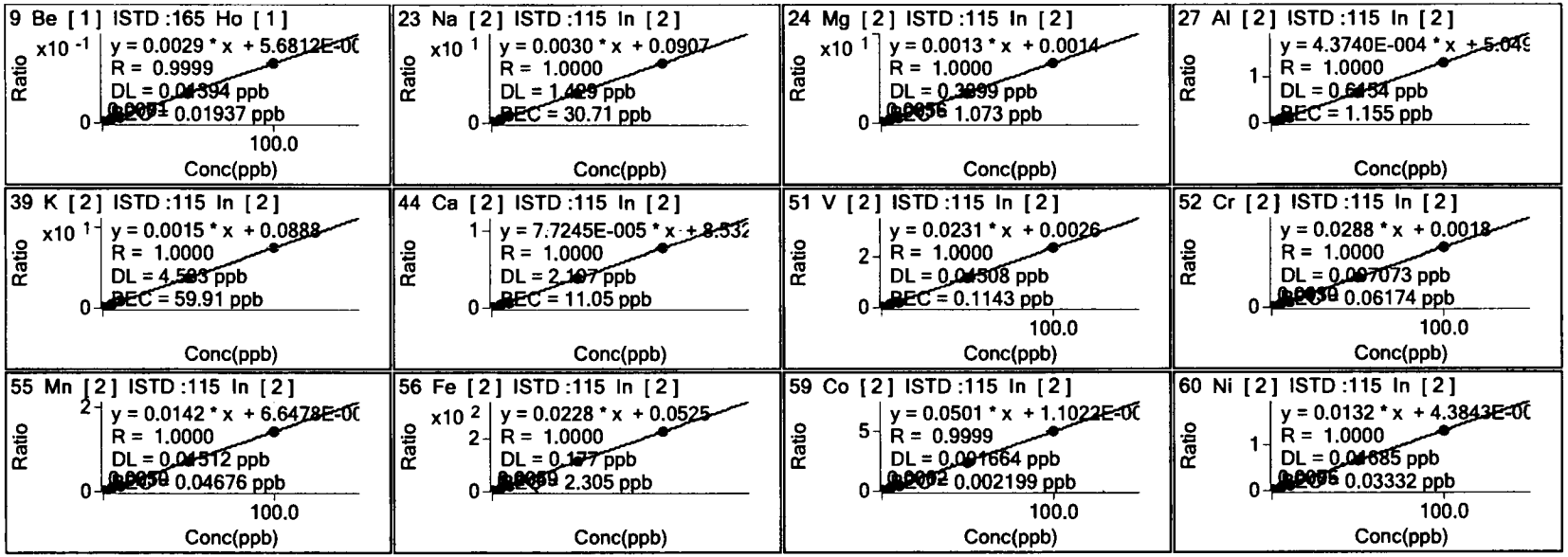
QC Analyte Table

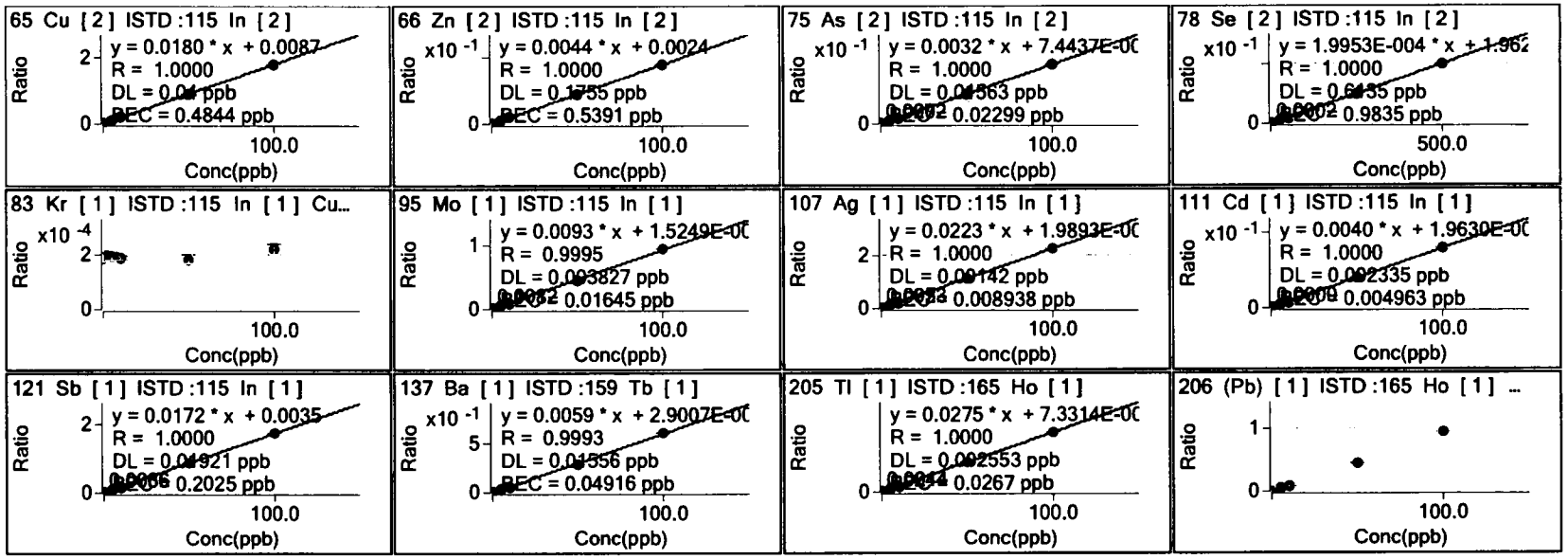
Element	m/z	ISTD	Tune Step	Meas Value	Units	QC High	QC Flag
Be	9	165	1	0.01	ppb	1	
Na	23	115	2	-15.12	ppb	500	
Mg	24	115	2	0.08	ppb	500	
Al	27	115	2	-0.39	ppb	500	
K	39	115	2	-10.73	ppb	500	
Ca	44	115	2	-4.99	ppb	500	
V	51	115	2	-0.09	ppb	1	
Cr	52	115	2	0.04	ppb	2	
Mn	55	115	2	0.02	ppb	6	
Fe	56	115	2	8.00	ppb	500	
Co	59	115	2	0.00	ppb	2	
Ni	60	115	2	0.01	ppb	3	
Cu	65	115	2	-0.15	ppb	10	
Zn	66	115	2	-0.26	ppb	20	
As	75	115	2	0.03	ppb	1	
Se	78	115	2	0.03	ppb	10	
Mo	95	115	1	0.11	ppb	1	
Ag	107	115	1	0.09	ppb	1	
Cd	111	115	1	0.00	ppb	2	
Sb	121	115	1	0.01	ppb	4	
Ba	137	159	1	-0.01	ppb	5	
Tl	205	165	1	0.02	ppb	2	
Pb	208	165	1	-0.10	ppb	2	

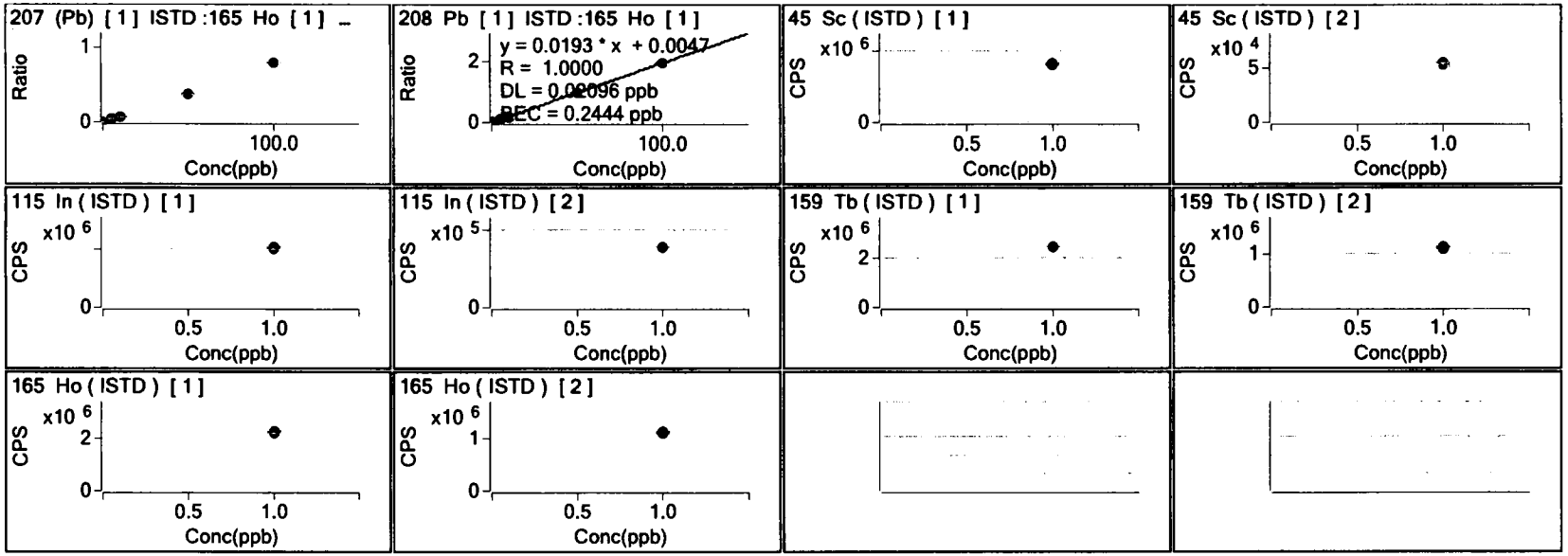
QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1382403	1.16	1616505	85.5	70	130	
Sc	45	2	42890	0.92	53187	80.6	70	130	
In	115	1	1890951	1.10	2034272	93.0	70	130	
In	115	2	353792	0.74	383032	92.4	70	130	
Tb	159	1	2260684	1.29	2375564	95.2	70	130	
Tb	159	2	1061602	0.75	1093392	97.1	70	130	
Ho	165	1	2146167	1.25	2250620	95.4	70	130	
Ho	165	2	1050360	0.94	1077785	97.5	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u







Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14784

Description
LCS SOIL (LOT#249)

ApprovedBy: shiamala
ApproveDate: 10/14/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
PHENOVA	QC-MET-SOIL	7086-04C	06/30/22	09/30/24	Aliano, Carmela	50	10g	NEAT	NEAT

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-397289

Prepared By: Leary, Jazmine
Description: Hg Intermediate Standard -WARNING
Prep Date: 6/14/2023
Expiration Date: 6/14/2023
Department: Metals
BatchNumber: B-34957
Concentration: .25 ppm
Final Volume: 500 ml
ApprovedBy: shiamala
ApproveDate: 06/20/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14386	MERCURY	.125 ml	1000	
15243	nitric acid	12.5 ml	neat neat	
15340	DI H2O			

Veritech Lot Number: V-397290

Prepared By: Leary, Jazmine
Description: Hg intermediate Control -WARNING
Prep Date: 6/14/2023
Expiration Date: 6/14/2023
Department: Metals
BatchNumber: B-34957
Concentration: 1.0 ppm
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 06/20/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15059	Mercury	.1 ul	1000 ppm	
15243	nitric acid	2.5 ml	neat neat	
15340	DI H2O			

Veritech Lot Number: V-397342

Prepared By: Concordo, Joel
Description: Aquaregia
Prep Date: 6/14/2023
Expiration Date: 6/14/2023
Department: Metals
BatchNumber: B-34961
Concentration: 0 neat
Final Volume: 80 ml
ApprovedBy: shiamala
ApproveDate: 06/20/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15243	nitric acid	20 ml	neat neat	
15244	Hydrochloric Acid	60 ml	Neat neat	

Veritech Lot Number: V-397343

Prepared By: Concordo, Joel
Description: Hg Soil ICV Soil
Prep Date: 6/14/2023
Expiration Date: 6/14/2023
Department: Metals
BatchNumber: B-34961
Concentration: 20 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 06/20/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397290	Hg intermediate Control -WARNING	.5 ml	1.0 ppm	
15340	DI H2O			

Veritech Lot Number: V-397344

Prepared By: Concordo, Joel
Description: Hg soil CCV 10ppb
Prep Date: 6/14/2023
Expiration Date: 6/14/2023
Department: Metals
BatchNumber: B-34961
Concentration: 10 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 06/20/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397290	Hg intermediate Control -WARNING	.25 ml	1.0 ppm	
15340	DI H2O			

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-397345

Prepared By: Concordo, Joel | Department: Metals | ApprovedBy: shiamala
Description: Hg soil standard blk | BatchNumber: B-34961 | ApproveDate: 06/20/23
Prep Date: 6/14/2023 | Concentration: 0 ppm | Checked: Yes
Expiration Date: 6/14/2023 | Final Volume: 25 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			

Veritech Lot Number: V-397346

Prepared By: Concordo, Joel | Department: Metals | ApprovedBy: shiamala
Description: Hg soil standard .5 ppb | BatchNumber: B-34961 | ApproveDate: 06/20/23
Prep Date: 6/14/2023 | Concentration: .5 ppb | Checked: Yes
Expiration Date: 6/14/2023 | Final Volume: 25 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397289	Hg Intermediate Standard -WARNING	.05 ml	.25 ppm	
15340	DI H2O			

Veritech Lot Number: V-397347

Prepared By: Concordo, Joel | Department: Metals | ApprovedBy: shiamala
Description: Hg soil standard 1 ppb | BatchNumber: B-34961 | ApproveDate: 06/20/23
Prep Date: 6/14/2023 | Concentration: 1 ppb | Checked: Yes
Expiration Date: 6/14/2023 | Final Volume: 25 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397289	Hg Intermediate Standard -WARNING	.1 ml	.25 ppm	
15340	DI H2O			

Veritech Lot Number: V-397348

Prepared By: Concordo, Joel | Department: Metals | ApprovedBy: shiamala
Description: Hg soil standard 2 ppb | BatchNumber: B-34961 | ApproveDate: 06/20/23
Prep Date: 6/14/2023 | Concentration: 2 ppb | Checked: Yes
Expiration Date: 6/14/2023 | Final Volume: 25 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397289	Hg Intermediate Standard -WARNING	.2 ml	.25 ppm	
15340	DI H2O			

Veritech Lot Number: V-397349

Prepared By: Concordo, Joel | Department: Metals | ApprovedBy: shiamala
Description: Hg soil standard 5 ppb | BatchNumber: B-34961 | ApproveDate: 06/20/23
Prep Date: 6/14/2023 | Concentration: 5 ppb | Checked: Yes
Expiration Date: 6/14/2023 | Final Volume: 25 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397289	Hg Intermediate Standard -WARNING	.5 ml	.25 ppm	
15340	DI H2O			

Veritech Lot Number: V-397350

Prepared By: Concordo, Joel | Department: Metals | ApprovedBy: shiamala
Description: Hg soil standard 10 ppb | BatchNumber: B-34961 | ApproveDate: 06/20/23
Prep Date: 6/14/2023 | Concentration: 10 ppb | Checked: Yes
Expiration Date: 6/14/2023 | Final Volume: 25 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397289	Hg Intermediate Standard -WARNING	1 ml	.25 ppm	
15340	DI H2O			

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-397351

Prepared By:	Concordo, Joel	Department:	Metals	ApprovedBy:	shiamala
Description:	Hg soil standard 25 ppb	BatchNumber:	B-34961	ApproveDate:	06/20/23
Prep Date:	6/14/2023	Concentration:	25 ppb	Checked:	Yes
Expiration Date:	6/14/2023	Final Volume:	25 ml		

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397289	Hg Intermediate Standard -WARNING	2.5 ml	.25 ppm	
15340	DI H2O			

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14386

Description
MERCURY

ApprovedBy: carmela
ApproveDate: 07/25/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SCP Science	140-051-801	S210729017	01/03/22	07/30/23	Aliano, Carmela	1	125m	1000	

Veritech Control/Receipt Number: 15059

Description
Mercury

ApprovedBy: shiamala
ApproveDate: 01/25/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLHG4-2Y	26-57HGY	01/25/23	01/30/24	Balashanthan, Shi	2	125ml	1000	ppm

Veritech Control/Receipt Number: 15243

Description
nitric acid

ApprovedBy: jean
ApproveDate: 05/05/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9606-03	23B0262006	04/28/23	01/12/28	Cajuste, Pierre	6	2.5L	neat	neat

Veritech Control/Receipt Number: 15244

Description
Hydrochloric Acid

ApprovedBy: akmal
ApproveDate: 06/13/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J . T , BAKER	9539-05	23B1462010	04/28/23	08/17/24	Cajuste, Pierre	16	2.5 L	Neat	Neat

Veritech Control/Receipt Number: 15340

Description
DI H2O

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
EVOQUA	1	1	06/01/23	06/01/24	Cousineau, Paul	1			

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-393823

Prepared By: Concordo, Joel
Description: 5% Potassium Permanganate WARNIN
Prep Date: 4/18/2023
Expiration Date: 7/17/2023
Department: Metals
BatchNumber:
Concentration: reagent reage
Final Volume: 20 l
ApprovedBy: shiamala
ApproveDate: 04/25/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14736	DI H2O			
14463	Potassium Permanganate	1000 g	neat neat	

Veritech Lot Number: V-395509

Prepared By: Leary, Jazmine
Description: Hydroxylamine Hydrochloride WARNIN
Prep Date: 5/16/2023
Expiration Date: 7/17/2023
Department: Metals
BatchNumber:
Concentration: reagent reage
Final Volume: 10 l
ApprovedBy: shiamala
ApproveDate: 05/26/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14736	DI H2O			
14484	Sodium Chloride	1200 g	NEAT neat	
14938	Hydroxylamine Hydrochloride	1200 g	neat kg	

Veritech Lot Number: V-397287

Prepared By: Leary, Jazmine
Description: 3% HCL WARNING
Prep Date: 6/14/2023
Expiration Date: 12/14/2023
Department: WetChem
BatchNumber:
Concentration: 3 %
Final Volume: 10 l
ApprovedBy: shiamala
ApproveDate: 06/20/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15244	Hydrochloric Acid	300 ml	Neat neat	3%
15340	DI H2O			

Veritech Lot Number: V-397290

Prepared By: Leary, Jazmine
Description: Hg intermediate Control -WARNING
Prep Date: 6/14/2023
Expiration Date: 6/14/2023
Department: Metals
BatchNumber: B-34957
Concentration: 1.0 ppm
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 06/20/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15059	Mercury	.1 ul	1000 ppm	
15243	nitric acid	2.5 ml	neat neat	
15340	DI H2O			

Veritech Lot Number: V-397377

Prepared By: Leary, Jazmine
Description: SnCl2 "WARNING:"
Prep Date: 6/15/2023
Expiration Date: 6/15/2023
Department: Metals
BatchNumber:
Concentration: reagent l
Final Volume: 2 l
ApprovedBy: shiamala
ApproveDate: 06/20/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397287	3% HCL WARNING	2000 ml	3 %	
15212	Stannous Chloride	26.4 g	neat kg	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14463

Description
Potassium Permanganate

ApprovedBy: carmela
ApproveDate: 07/25/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Laboratory Sales	LC-T10208	200812-C	02/28/22	02/28/32	Cousineau, Paul	1	2.5kG	neat	neat

Veritech Control/Receipt Number: 14484

Description
Sodium Chloride

ApprovedBy: carmela
ApproveDate: 07/25/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
EMD	LS-1559300	20I165203	03/10/22	04/01/26	Cousineau, Paul	1	12kg	NEAT	NEAT

Veritech Control/Receipt Number: 14736

Description
DI H2O

ApprovedBy: janee
ApproveDate: 08/01/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
EVOQUA	1	1	07/18/22	07/17/23	Trivedi, Beena	1			

Veritech Control/Receipt Number: 14938

Description
Hydroxylamine Hydrochloride

ApprovedBy: shiamala
ApproveDate: 12/23/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Lab Sales	LS-1580015	220317-2C	11/16/22	11/16/23	Leary, Jazmine	1	2.5 K	neat	Kg

Veritech Control/Receipt Number: 15059

Description
Mercury

ApprovedBy: shiamala
ApproveDate: 01/25/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLHG4-2Y	26-57HGY	01/25/23	01/30/24	Balashanthan, Shi	2	125ml	1000	ppm

Veritech Control/Receipt Number: 15212

Description
Stannous Chloride

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Lab Sales	LC-P33805	221209-1A	04/01/23	04/30/24	Cousineau, Paul	3	KG	neat	KG

Veritech Control/Receipt Number: 15243

Description
nitric acid

ApprovedBy: jean
ApproveDate: 05/05/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9606-03	23B0262006	04/28/23	01/12/28	Cajuste, Pierre	6	2.5L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15244

Description
Hydrochloric Acid

ApprovedBy: akmal
ApproveDate: 06/13/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J . T , BAKER	9539-05	23B1462010	04/28/23	08/17/24	Cajuste, Pierre	16	2.5 L	Neat	Neat

Veritech Control/Receipt Number: 15340

Description
DI H2O

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
EVOQUA	1	1	06/01/23	06/01/24	Cousineau, Paul	1			

$SnCl_2$ V-397377
SOIL 6/15/23 JL

R 6/20/23

Analysis Begun

Logged In Analyst: peservice
Technique: AA FIMS-MHS
Spectrometer: FIMS-100, S/N B050-9550
Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\AA\Data\Sample Information\H29848S.sifx
Batch ID: H29848S
Results Data Set: H29848S
Results Library: C:\Users\Public\PerkinElmer Syngistix\AA\Data\Results\Results.mdb

Method Loaded
Method Name: HgCV4 SOILNEW (7471A
Method Last Saved: 6/15/2023 9:08:28 AM
Method Description: HgCV4 SOILNEW (7471A)

Sequence No.: 1
Autosampler Location: 1
Sample ID: CALBLK V-397345
Date Collected: 6/15/2023 9:35:10 AM
Analyst:
Data Type: Original

Replicate Data: CALBLK V-397345
Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0001	0.0003	0.0001	9:36:00 AM	Yes
2		[0.00]	0.0000	-0.0006	0.0000	9:36:37 AM	Yes
Mean:		[0.00]	0.0001				
SD:		0.0000	0.0001				
%RSD:		0.00%	116.02%				

Auto-zero performed.

Sequence No.: 2
Autosampler Location: 2
Sample ID: .5 PPB V-397346
Date Collected: 6/15/2023 9:36:40 AM
Analyst:
Data Type: Original

Replicate Data: .5 PPB V-397346
Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.5]	0.0022	0.0129	0.0023	9:37:30 AM	Yes
2		[0.5]	0.0023	0.0134	0.0023	9:38:07 AM	Yes
Mean:		[0.5]	0.0022				
SD:		0.000	0.0001				
%RSD:		0.00%	2.42%				

Standard number 1 applied. [0.5]
Correlation Coef.: 1.000000 Slope: 0.00449 Intercept: 0.00000

Sequence No.: 3
Autosampler Location: 3
Sample ID: 1 PPB V-397347
Date Collected: 6/15/2023 9:38:11 AM
Analyst:
Data Type: Original

Replicate Data: 1 PPB V-397347
Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[1]	0.0045	0.0255	0.0045	9:39:01 AM	Yes
2		[1]	0.0043	0.0236	0.0044	9:39:37 AM	Yes
Mean:		[1]	0.0044				
SD:		0.00	0.0001				
%RSD:		0.00%	2.36%				

Standard number 2 applied. [1]
Correlation Coef.: 0.999933 Slope: 0.00440 Intercept: 0.00001

Sequence No.: 4
Autosampler Location: 4
Sample ID: 2 PPB V-397348
Date Collected: 6/15/2023 9:39:41 AM
Analyst:
Data Type: Original

Replicate Data: 2 PPB V-397348 **Analyte: Hg 253.7**

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[2]	0.0091	0.0519	0.0092	9:40:31 AM	Yes
2		[2]	0.0088	0.0494	0.0089	9:41:07 AM	Yes
Mean:		[2]	0.0090				
SD:		0.00	0.0002				
%RSD:		0.00%	2.05%				

Standard number 3 applied. [2]
Correlation Coef.: 0.999933 Slope: 0.00448 Intercept: -0.00002

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: 5 PPB V-397349 **Date Collected: 6/15/2023 9:41:11 AM**
Analyst: **Data Type: Original**

Replicate Data: 5 PPB V-397349 **Analyte: Hg 253.7**

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5]	0.0220	0.1229	0.0220	9:42:01 AM	Yes
2		[5]	0.0220	0.1222	0.0220	9:42:38 AM	Yes
Mean:		[5]	0.0220				
SD:		0.00	0.0000				
%RSD:		0.00%	0.03%				

Standard number 4 applied. [5]
Correlation Coef.: 0.999958 Slope: 0.00439 Intercept: 0.00005

Sequence No.: 6 **Autosampler Location: 6**
Sample ID: 10 PPB V-397350 **Date Collected: 6/15/2023 9:42:41 AM**
Analyst: **Data Type: Original**

Replicate Data: 10 PPB V-397350 **Analyte: Hg 253.7**

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10]	0.0445	0.2507	0.0446	9:43:32 AM	Yes
2		[10]	0.0438	0.2425	0.0438	9:44:08 AM	Yes
Mean:		[10]	0.0442				
SD:		0.00	0.0006				
%RSD:		0.00%	1.28%				

Standard number 5 applied. [10]
Correlation Coef.: 0.999989 Slope: 0.00441 Intercept: 0.00003

Sequence No.: 7 **Autosampler Location: 7**
Sample ID: 25 PPB V-397351 **Date Collected: 6/15/2023 9:44:37 AM**
Analyst: **Data Type: Original**

Replicate Data: 25 PPB V-397351 **Analyte: Hg 253.7**

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[25]	0.1077	0.6078	0.1078	9:45:27 AM	Yes
2		[25]	0.1070	0.5925	0.1070	9:46:03 AM	Yes
Mean:		[25]	0.1073				
SD:		0.00	0.0005				
%RSD:		0.00%	0.47%				

Standard number 6 applied. [25]
Correlation Coef.: 0.999937 Slope: 0.00430 Intercept: 0.00031

Calibration data for Hg 253.7 **Equation: Linear, Calculated Intercept**

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
CALBLK V-397345	0.0000	0	-0.072	0.00	116.02
.5 PPB V-397346	0.0022	0.5	0.449	0.00	2.42
1 PPB V-397347	0.0044	1.0	0.951	0.00	2.36
2 PPB V-397348	0.0090	2.0	2.016	0.00	2.05
5 PPB V-397349	0.0220	5.0	5.040	0.00	0.03
10 PPB V-397350	0.0442	10.0	10.204	0.00	1.28
25 PPB V-397351	0.1073	25.0	24.912	0.00	0.47

Correlation Coef.: 0.999937 Slope: 0.00430 Intercept: 0.00031

Sequence No.: 8 **Autosampler Location: 10**
Sample ID: ICV (2) V-397343 **Date Collected: 6/15/2023 9:46:30 AM**
Analyst: **Data Type: Original**

Replicate Data: ICV (2) V-397343 **Analyte: Hg 253.7**

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	21.02	21.02	0.0906	0.5114	0.0907	9:47:22 AM	Yes
2	20.74	20.74	0.0894	0.4947	0.0895	9:47:59 AM	Yes
Mean:	20.88	20.88	0.0900				
SD:	0.195	0.195	0.0008				
%RSD:	0.93%	0.93%	0.93%				

QC value within limits for Hg 253.7 Recovery = 104.39%
All analyte(s) passed QC.

Sequence No.: 9 **Autosampler Location: 1**
Sample ID: ICB V-397345 **Date Collected: 6/15/2023 9:48:26 AM**
Analyst: **Data Type: Original**

Replicate Data: ICB V-397345 **Analyte: Hg 253.7**

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.097	-0.097	-0.0001	-0.0026	-0.0001	9:49:17 AM	Yes
2	-0.092	-0.092	-0.0001	-0.0016	-0.0000	9:49:54 AM	Yes
Mean:	-0.095	-0.095	-0.0001				
SD:	0.0033	0.0033	0.0000				
%RSD:	3.46%	3.46%	14.78%				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 10 **Autosampler Location: 18**
Sample ID: MB 107860 (167) **Date Collected: 6/15/2023 9:49:57 AM**
Analyst: **Data Type: Original**

Replicate Data: MB 107860 (167) **Analyte: Hg 253.7**

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.087	-0.087	-0.0001	-0.0013	-0.0000	9:50:48 AM	Yes
2	-0.054	-0.054	0.0001	0.0009	0.0001	9:51:25 AM	Yes
Mean:	-0.070	-0.070	0.0000				
SD:	0.0235	0.0235	0.0001				
%RSD:	33.43%	33.43%	>999.9%				

Sequence No.: 11 **Autosampler Location: 19**
Sample ID: LCS 107860 **Date Collected: 6/15/2023 9:51:28 AM**
Analyst: **Data Type: Original**

Replicate Data: LCS 107860 **Analyte: Hg 253.7**

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	23.54	23.54	0.1014	0.5736	0.1015	9:52:18 AM	Yes
2	23.18	23.18	0.0999	0.5554	0.0999	9:52:55 AM	Yes
Mean:	23.36	23.36	0.1007				
SD:	0.254	0.254	0.0011				
%RSD:	1.09%	1.09%	1.09%				

Sequence No.: 12 **Autosampler Location: 20**
Sample ID: LCS MR 107860 **Date Collected: 6/15/2023 9:53:23 AM**
Analyst: **Data Type: Original**

Replicate Data: LCS MR 107860 **Analyte: Hg 253.7**

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Time	Peak

#	ug/L	ug/L	Signal	Area	Height		Stored
1	24.93	24.93	0.1074	0.6036	0.1075	9:54:15 AM	Yes
2	24.60	24.60	0.1060	0.5866	0.1060	9:54:51 AM	Yes
Mean:	24.77	24.77	0.1067				
SD:	0.240	0.240	0.0010				
%RSD:	0.97%	0.97%	0.97%				

Sequence No.: 13 **Autosampler Location: 21**
Sample ID: AD38537-001 **Date Collected: 6/15/2023 9:55:20 AM**
Analyst: **Data Type: Original**

Replicate Data: AD38537-001 **Analyte: Hg 253.7**

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.103	-0.103	-0.0001	-0.0029	-0.0001	9:56:11 AM	Yes
2	-0.068	-0.068	0.0000	-0.0003	0.0001	9:56:47 AM	Yes
Mean:	-0.085	-0.085	-0.0001				
SD:	0.0250	0.0250	0.0001				
%RSD:	29.25%	29.25%	192.08%				

Sequence No.: 14 **Autosampler Location: 22**
Sample ID: AD38537-001 MR **Date Collected: 6/15/2023 9:56:51 AM**
Analyst: **Data Type: Original**

Replicate Data: AD38537-001 MR **Analyte: Hg 253.7**

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.032	-0.032	0.0002	0.0016	0.0002	9:57:41 AM	Yes
2	-0.072	-0.072	0.0000	-0.0006	0.0001	9:58:18 AM	Yes
Mean:	-0.052	-0.052	0.0001				
SD:	0.0286	0.0286	0.0001				
%RSD:	54.98%	54.98%	140.05%				

Sequence No.: 15 **Autosampler Location: 23**
Sample ID: AD38537-001 MS1 **Date Collected: 6/15/2023 9:58:21 AM**
Analyst: **Data Type: Original**

Replicate Data: AD38537-001 MS1 **Analyte: Hg 253.7**

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.54	10.54	0.0456	0.2554	0.0456	9:59:12 AM	Yes
2	10.51	10.51	0.0455	0.2518	0.0455	9:59:48 AM	Yes
Mean:	10.52	10.52	0.0455				
SD:	0.022	0.022	0.0001				
%RSD:	0.21%	0.21%	0.21%				

Sequence No.: 16 **Autosampler Location: 24**
Sample ID: AD38537-001 MS2 **Date Collected: 6/15/2023 10:00:16 AM**
Analyst: **Data Type: Original**

Replicate Data: AD38537-001 MS2 **Analyte: Hg 253.7**

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.59	10.59	0.0458	0.2562	0.0458	10:01:08 AM	Yes
2	10.64	10.64	0.0460	0.2541	0.0461	10:01:44 AM	Yes
Mean:	10.61	10.61	0.0459				
SD:	0.038	0.038	0.0002				
%RSD:	0.36%	0.36%	0.35%				

Sequence No.: 17 **Autosampler Location: 25**
Sample ID: AD38540-004 **Date Collected: 6/15/2023 10:02:12 AM**
Analyst: **Data Type: Original**

Replicate Data: AD38540-004 **Analyte: Hg 253.7**

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.085	-0.085	-0.0001	-0.0007	0.0000	10:03:03 AM	Yes
2	-0.086	-0.086	-0.0001	-0.0007	-0.0000	10:03:40 AM	Yes
Mean:	-0.085	-0.085	-0.0001				
SD:	0.0006	0.0006	0.0000				
%RSD:	0.75%	0.75%	4.99%				

==========

Sequence No.: 18 **Autosampler Location: 26**
Sample ID: AD38540-007 **Date Collected: 6/15/2023 10:03:44 AM**
Analyst: **Data Type: Original**

Replicate Data: AD38540-007 **Analyte: Hg 253.7**

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.220	0.220	0.0013	0.0066	0.0013	10:04:34 AM	Yes
2	0.229	0.229	0.0013	0.0068	0.0013	10:05:11 AM	Yes
Mean:	0.224	0.224	0.0013				
SD:	0.0058	0.0058	0.0000				
%RSD:	2.58%	2.58%	1.95%				

==========

Sequence No.: 19 **Autosampler Location: 27**
Sample ID: AD38540-014 **Date Collected: 6/15/2023 10:05:14 AM**
Analyst: **Data Type: Original**

Replicate Data: AD38540-014 **Analyte: Hg 253.7**

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.216	0.216	0.0012	0.0069	0.0013	10:06:05 AM	Yes
2	0.202	0.202	0.0012	0.0060	0.0012	10:06:41 AM	Yes
Mean:	0.209	0.209	0.0012				
SD:	0.0098	0.0098	0.0000				
%RSD:	4.67%	4.67%	3.47%				

==========

Sequence No.: 20 **Autosampler Location: 9**
Sample ID: CCV V-397344 **Date Collected: 6/15/2023 10:06:45 AM**
Analyst: **Data Type: Original**

Replicate Data: CCV V-397344 **Analyte: Hg 253.7**

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.81	10.81	0.0468	0.2601	0.0468	10:07:36 AM	Yes
2	10.80	10.80	0.0467	0.2566	0.0468	10:08:12 AM	Yes
Mean:	10.80	10.80	0.0467				
SD:	0.009	0.009	0.0000				
%RSD:	0.09%	0.09%	0.09%				

QC value within limits for Hg 253.7 Recovery = 108.04%
All analyte(s) passed QC.

==========

Sequence No.: 21 **Autosampler Location: 1**
Sample ID: CCB V-397345 **Date Collected: 6/15/2023 10:08:40 AM**
Analyst: **Data Type: Original**

Replicate Data: CCB V-397345 **Analyte: Hg 253.7**

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.094	-0.094	-0.0001	-0.0031	-0.0000	10:09:30 AM	Yes
2	-0.087	-0.087	-0.0001	-0.0011	-0.0000	10:10:07 AM	Yes
Mean:	-0.091	-0.091	-0.0001				
SD:	0.0051	0.0051	0.0000				
%RSD:	5.58%	5.58%	27.81%				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 22 **Autosampler Location: 28**

Sample ID: AD38540-021 Date Collected: 6/15/2023 10:10:10 AM
Analyst: Data Type: Original

Replicate Data: AD38540-021 Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.006	0.006	0.0003	0.0017	0.0004	10:11:02 AM	Yes
2	0.006	0.006	0.0003	0.0017	0.0004	10:11:39 AM	Yes
Mean:	0.006	0.006	0.0003				
SD:	0.0003	0.0003	0.0000				
%RSD:	5.26%	5.26%	0.42%				

Sequence No.: 23 Autosampler Location: 29
Sample ID: AD38537-002 Date Collected: 6/15/2023 10:11:43 AM
Analyst: Data Type: Original

Replicate Data: AD38537-002 Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.031	1.031	0.0047	0.0270	0.0048	10:12:33 AM	Yes
2	1.013	1.013	0.0047	0.0259	0.0047	10:13:09 AM	Yes
Mean:	1.022	1.022	0.0047				
SD:	0.0124	0.0124	0.0001				
%RSD:	1.22%	1.22%	1.14%				

Sequence No.: 24 Autosampler Location: 30
Sample ID: AD38537-003 Date Collected: 6/15/2023 10:13:13 AM
Analyst: Data Type: Original

Replicate Data: AD38537-003 Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.080	0.080	0.0007	0.0032	0.0007	10:14:03 AM	Yes
2	0.049	0.049	0.0005	0.0023	0.0006	10:14:40 AM	Yes
Mean:	0.064	0.064	0.0006				
SD:	0.0219	0.0219	0.0001				
%RSD:	34.10%	34.10%	16.03%				

Sequence No.: 25 Autosampler Location: 31
Sample ID: AD38537-004 Date Collected: 6/15/2023 10:14:44 AM
Analyst: Data Type: Original

Replicate Data: AD38537-004 Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.625	0.625	0.0030	0.0164	0.0031	10:15:34 AM	Yes
2	0.618	0.618	0.0030	0.0160	0.0030	10:16:11 AM	Yes
Mean:	0.622	0.622	0.0030				
SD:	0.0044	0.0044	0.0000				
%RSD:	0.72%	0.72%	0.64%				

Sequence No.: 26 Autosampler Location: 32
Sample ID: AD38537-005 Date Collected: 6/15/2023 10:16:15 AM
Analyst: Data Type: Original

Replicate Data: AD38537-005 Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.021	0.021	0.0004	0.0022	0.0005	10:17:05 AM	Yes
2	0.037	0.037	0.0005	0.0027	0.0005	10:17:41 AM	Yes
Mean:	0.029	0.029	0.0004				
SD:	0.0112	0.0112	0.0000				
%RSD:	38.21%	38.21%	10.99%				

Sequence No.: 27 Autosampler Location: 33
Sample ID: AD38537-006 Date Collected: 6/15/2023 10:17:45 AM
Analyst: Data Type: Original

Replicate Data: AD38537-006 Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.593	0.593	0.0029	0.0160	0.0029	10:18:36 AM	Yes
2	0.582	0.582	0.0028	0.0154	0.0029	10:19:12 AM	Yes
Mean:	0.587	0.587	0.0028				
SD:	0.0074	0.0074	0.0000				
%RSD:	1.26%	1.26%	1.12%				

Sequence No.: 28 Autosampler Location: 34
Sample ID: AD38537-007 Date Collected: 6/15/2023 10:19:16 AM
Analyst: Data Type: Original

Replicate Data: AD38537-007 Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.590	1.590	0.0071	0.0399	0.0072	10:20:07 AM	Yes
2	1.573	1.573	0.0071	0.0388	0.0071	10:20:43 AM	Yes
Mean:	1.581	1.581	0.0071				
SD:	0.0121	0.0121	0.0001				
%RSD:	0.76%	0.76%	0.73%				

Sequence No.: 29 Autosampler Location: 35
Sample ID: AD38537-008 Date Collected: 6/15/2023 10:20:47 AM
Analyst: Data Type: Original

Replicate Data: AD38537-008 Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.016	0.016	0.0004	0.0024	0.0004	10:21:39 AM	Yes
2	0.006	0.006	0.0003	0.0018	0.0004	10:22:15 AM	Yes
Mean:	0.011	0.011	0.0004				
SD:	0.0070	0.0070	0.0000				
%RSD:	62.73%	62.73%	8.41%				

Sequence No.: 30 Autosampler Location: 36
Sample ID: AD38515-001 Date Collected: 6/15/2023 10:22:19 AM
Analyst: Data Type: Original

Replicate Data: AD38515-001 Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.050	-0.050	0.0001	0.0006	0.0002	10:23:10 AM	Yes
2	-0.053	-0.053	0.0001	0.0004	0.0001	10:23:46 AM	Yes
Mean:	-0.051	-0.051	0.0001				
SD:	0.0027	0.0027	0.0000				
%RSD:	5.30%	5.30%	13.00%				

Sequence No.: 31 Autosampler Location: 37
Sample ID: AD38551-004 Date Collected: 6/15/2023 10:23:50 AM
Analyst: Data Type: Original

Replicate Data: AD38551-004 Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.046	-0.046	0.0001	0.0006	0.0002	10:24:41 AM	Yes
2	-0.052	-0.052	0.0001	0.0003	0.0001	10:25:17 AM	Yes
Mean:	-0.049	-0.049	0.0001				
SD:	0.0042	0.0042	0.0000				
%RSD:	8.65%	8.65%	17.76%				

Sequence No.: 32 **Autosampler Location: 9**
Sample ID: CCV V-397344 **Date Collected: 6/15/2023 10:25:21 AM**
Analyst: **Data Type: Original**

Replicate Data: CCV V-397344 **Analyte: Hg 253.7**

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.88	10.88	0.0470	0.2623	0.0471	10:26:13 AM	Yes
2	10.82	10.82	0.0468	0.2569	0.0469	10:26:49 AM	Yes
Mean:	10.85	10.85	0.0469				
SD:	0.038	0.038	0.0002				
%RSD:	0.35%	0.35%	0.35%				

QC value within limits for Hg 253.7 Recovery = 108.52%
All analyte(s) passed QC.

Sequence No.: 33 **Autosampler Location: 1**
Sample ID: CCB V-397345 **Date Collected: 6/15/2023 10:27:16 AM**
Analyst: **Data Type: Original**

Replicate Data: CCB V-397345 **Analyte: Hg 253.7**

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.094	-0.094	-0.0001	-0.0020	-0.0000	10:28:07 AM	Yes
2	-0.089	-0.089	-0.0001	-0.0007	-0.0000	10:28:44 AM	Yes
Mean:	-0.092	-0.092	-0.0001				
SD:	0.0029	0.0029	0.0000				
%RSD:	3.20%	3.20%	15.33%				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Metal Data
Digestion Logbook Data

Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 3010A 3005A 3050B 200.7/200.8 OTHER_____

Batch No.: 29848 Analyst: JC

QC Number: 107860 Prep Date: ~~6/15/23~~ 6/14/23

Matrix: Soil 6020 Reviewed By: M

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank		50mL	25mL	50mL		--	
LCS	.1g					--	
LCSD	"	"	"	"		--	
1. 38537- 001	.5g	"	"	"			Samples are combined prior to analysis to provide extra sample volume for analysis
1. Analytical Duplicate							
MR 38537 - 001	.5g	50mL	25mL	50mL			
MS " - 001	"	"	"	"			Balance used: 039
MSD " - 001	"	"	"	"			Pipettes used: 149, 153
2. 38540 - 004	"	"	"	"			
3. " - 007	"	"	"	"			Hot Block used: 5
4. " - 014	"	"	"	"			
5. " - 021	"	"	"	"			
6. " - 002	"	"	"	"			
7. " - 005	"	"	"	"			
8. " - 008	"	"	"	"			
9. " - 011	"	"	"	"			
10. 38537 - 002	"	"	"	"			
11. " - 003	"	"	"	"			
12. " - 004	"	"	"	"			
13. " - 005	"	"	"	"			
14. " - 006	"	"	"	"			
15. " - 007	"	"	"	"			
16. " - 008	"	"	"	"			
17. 38515 - 001	"	"	"	"			
18. 38551 - 004	"	"	"	"			
19.							
20.							

Hot Plate Temperature: 94 C (90-95° C) Start Time: 11:00 End Time: 1:00

	Volume mL	Lot #
LCS, LCSD	.1g	V-14784
LLLCS, LLLCSD		V-
MS, MSD	25mL	V-14857, 14858, 39468
LLMS, LLMSD		V-

Acid	Vol mL	Lot#
HNO_3	2.5	V-15243
HCl	1	V-15244
H_2O_2	1.5	V-15214

Acid	Vol mL	Lot#
1:1 HNO_3	5	V-39398
1:1 HCl		V-

Relinquished By JC Date 6/14/23

Received By M Date 6/14/23

T:\QC\FORMS\LOGBOOK FORMS\METALS\ICP sample prep log 2018 DOD.DOC

HG SAMPLE PREPARATION LOG

Hampton-Clarke/Veritech

ANALYTICAL METHOD: 245.1 7470A (7471B) OTHER_____

Batch No.:* 29549

QC Number: 107860

Matrix: Soil

Analyst: JC

Prep Date: 6/14/23

Review By: JL

LAB ID#	MERCURY		COMMENTS	STANDARDS
	INITIAL	FINAL		
Method blank		7SMC		CAL CURVE BLK 0ppb V-397345
LCS	.15g			
LCSD				~~STD 0.2 ppb V-~~
1 38537 - 001				STD 0.5 ppb V-397346
MR - 001				STD 1.0 ppb V-397347
MS - 001				STD 2.0 ppb V-397348
MSD - 001				STD 5.0 ppb V-397349
2 38540 - 004				STD 10.0 ppb V-397350
3 - 007				STD 25.0 ppb V-397351
4 - 014				ICV 10.0 ppb V-397343
5 - 021				CCV 20.0 ppb V-397344
6 - 002				
7 - 005				
8 - 008				Balance used: 039
9 - 011				Pipettes used: 143,153,159
10 38537 - 002				
11 - 003				Hot Block used: 7
12 - 004				
12 - 005				
14 - 006				
15 - 007				
16 - 008				
17 38515 - 001				
18 38551 - 004				
19				
19				

Lot Numbers	Volume (mL)	Acid	Volume (mL)	Lot #
$KmnO_4$: V-393823	3.75	HNO_3		V-
$K_2S_2O_8$: V-		HCl		V-
NH_2OH: V-395509	1.5	H_2SO_4		V-
		Aqua Regia	1.25	V-397342

**Block Temp. : 94 °C

Time In Block: 12:00

Time Out of Block: 12:30

Spike Volume & Lot #

☐ LCS V-14764 0.15 / 0.25 ml

MS V-397240 0.250 ml

☐ Standards/Control Batch B-34961

StartTime: ~~6/14/23~~ 12:00

EndTime: 12:30

**Temperature

245.1 / 7470A: 90-95C

7471B : 92-98C

Relinquished By: JC

*25 mLs of each standard was digested with this batch using the same reagents and at the same time as the above samples. The preparation of each standard may be referenced in Veriprog using the standard batch number and the corresponding V #s.

Wet Chemistry Data

Hampton-Clarke Wet Chem Form1 Analysis Summary
% Solids

TestGroupName: % Solids SM2540G **Project #: 3061310**

TestGroup: %SOLIDS

Lab#	Client SampleID	Matrix	Dilution:	Result	Units:	RL	Prep Date	Analysis Date	Received Date	Collect Date
AD38537-001	SB-1 10-14	Soil/Encore	1	91	Percent			06/14/23	06/13/23	06/12/23
AD38537-002	SB-3 0-5	Soil/Encore	1	89	Percent			06/14/23	06/13/23	06/12/23
AD38537-003	SB-4 10-12.5	Soil/Encore	1	84	Percent			06/14/23	06/13/23	06/12/23
AD38537-004	SB-5 5-10	Soil/Encore	1	80	Percent			06/14/23	06/13/23	06/12/23
AD38537-005	SB-6 10-11	Soil/Encore	1	83	Percent			06/14/23	06/13/23	06/12/23
AD38537-006	SB-7 0.5-1	Soil/Encore	1	83	Percent			06/14/23	06/13/23	06/12/23
AD38537-007	SB-8 0-2	Soil/Encore	1	91	Percent			06/14/23	06/13/23	06/12/23
AD38537-008	SB-9 10-12	Soil/Encore	1	83	Percent			06/14/23	06/13/23	06/12/23

% Solids Report

Analysis Type: SOLIDS-SS
BatchID: SOLIDS-SS-14995

QcType	SampleID:	Rounded Result	Raw Result	Units	Tare Weight	Wet Weight	Dry Weight	Analysis Date	Analyzed By	QC RPD	Rpd Limit
DUP	AD38516-017	82	81.85890	Percent	1.33	10.26	8.64	06/14/23	kwilson	0.35	10
Sample	AD38516-017	82	82.14765	Percent	1.33	8.78	7.45	06/14/23	kwilson		
Sample	AD38516-018	88	87.52218	Percent	1.33	18.24	16.13	06/14/23	kwilson		
Sample	AD38521-001	85	85.25799	Percent	1.33	17.61	15.21	06/14/23	kwilson		
Sample	AD38521-002	82	81.84734	Percent	1.34	16.93	14.10	06/14/23	kwilson		
Sample	AD38522-001	83	83.18486	Percent	1.34	10.32	8.81	06/14/23	kwilson		
Sample	AD38522-002	83	82.58317	Percent	1.34	16.67	14.00	06/14/23	kwilson		
Sample	AD38524-003	90	89.98794	Percent	1.33	9.62	8.79	06/14/23	kwilson		
Sample	AD38537-001	91	90.98250	Percent	1.33	8.76	8.09	06/14/23	kwilson		
Sample	AD38537-002	89	89.23767	Percent	1.33	5.79	5.31	06/14/23	kwilson		
Sample	AD38537-003	84	84.22301	Percent	1.32	9.75	8.42	06/14/23	kwilson		
Sample	AD38537-004	80	80.18519	Percent	1.33	6.73	5.66	06/14/23	kwilson		
Sample	AD38537-005	83	82.51012	Percent	1.33	13.68	11.52	06/14/23	kwilson		
Sample	AD38537-006	83	82.69231	Percent	1.33	8.61	7.35	06/14/23	kwilson		
Sample	AD38537-007	91	90.62192	Percent	1.33	11.46	10.51	06/14/23	kwilson		
Sample	AD38537-008	83	83.36634	Percent	1.33	16.48	13.96	06/14/23	kwilson		
Sample	AD38539-002	96	95.65217	Percent	1.33	5.24	5.06	06/14/23	kwilson		
Sample	AD38539-003	96	95.89977	Percent	1.33	5.72	5.54	06/14/23	kwilson		
Sample	AD38539-005	95	95.23810	Percent	1.33	4.69	4.53	06/14/23	kwilson		
Sample	AD38539-006	96	95.81281	Percent	1.33	5.39	5.22	06/14/23	kwilson		
Sample	AD38539-007	95	95.28302	Percent	1.33	3.45	3.35	06/14/23	kwilson		

* - Indicates Failed Rpd Criteria

Hampton-Clarke
Analytical & Field Services

Last Page of Report

Hampton-Clarke
Analytical & Field Services

175 US Highway 46, STE D · Fairfield, NJ 07004-2327
2 Madison Road, Fairfield, NJ 07004-2327
800-426-9992 · 973-244-9770
FAX: 973-244-9787
WWW.HCVLAB.COM

Project: 510-514 W. Liberty Street

Client PO: Not Available

Report To: HRP Associates. Inc.
1 Fairchild Square
Suite 110
Clifton Park, NY 12065
Attn: Mark Wright

Received Date: 6/14/2023

Report Date: 7/19/2023

Deliverables: NYDOH-CatB

Lab ID: AD38586

Lab Project No: 3061429

Sean Berls - Quality Assurance Officer OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

Table of Contents - 3061429

SDG Narrative

HC Case Narrative

Client: HRP Associates, Inc.
Project: 510-514 W. Liberty Street

HC Project: 3061429

Hampton-Clarke (HC) received the following samples on 6/14/23:

Client ID	HC Sample ID	Matrix	Analysis
HB-1 +QA\QC	AD38586-001	Soil	Volatile Organics (8260D), Semivolatile Organics (8270E), PCB (8082A), Pesticides (8081B), Herbicides (8151A), Metals (6020B/7471B), % Solids (SM2540G)
DUP	AD38586-002	Soil	Volatile Organics (8260D), Semivolatile Organics (8270E), PCB (8082A), Pesticides (8081B), Herbicides (8151A), Metals (6020B/7471B), % Solids (SM2540G)
HB-2	AD38586-003	Soil	Base Neutrals (8270E), Metals (6020B/7471B), % Solids (SM2540G)
	AD38586-004	Soil	Base Neutrals (8270E), Metals (6020B/7471B), % Solids (SM2540G)
OutbuildingSump	AD38586-005	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E)
TW-1	AD38586-006	Aqueous	Volatile Organics (8260D), Base Neutrals (8270E)
HB-1 +QA\QC MS	AD38586-007	Soil	Volatile Organics (8260D), Semivolatile Organics (8270E), PCB (8082A), Pesticides (8081B), Herbicides (8151A), Metals (6020B/7471B), % Solids (SM2540G)
HB-1 +QA\QC MSD	AD38586-008	Soil	Volatile Organics (8260D), Semivolatile Organics (8270E), PCB (8082A), Pesticides (8081B), Herbicides (8151A), Metals (6020B/7471B), % Solids (SM2540G)

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

Acetone was recovered in sample AD38586-006 due to possible laboratory contamination.

The Method Blank Spike for batch 110001 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 110001 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The spiking compounds were diluted out from Matrix Spike and Matrix Spike Duplicate for batch 109429 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Base Neutral/Acid Extractable Analysis:

The Method Blank Spike for batch 108840 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 108929 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

PCB Analysis:

Data conforms to method requirements.

Pesticide Analysis:

The Matrix Spike and/or Matrix Spike Duplicate for batch 108889 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Herbicide Analysis:

Data conforms to method requirements.

Metals Analysis:

The Matrix Spike and/or Matrix Spike Duplicate for batch 107880 had recoveries outside QC limits. Please refer to the applicable Form 5/7 for the recoveries.

The RPD between the QC sample and the Method Replicate had recoveries outside QC limits in batch 107880. Please refer to the applicable Form 6/9 for the recoveries.

The MS/MSD RPD had recoveries outside QC limits in batch 107880. Please refer to the applicable Form 6/9 for the recoveries.

Sample AD38586-003 was reported at a dilution for As, Pb due to concentration over linear range.

Sample AD38586-004 was reported at a dilution for As, Fe due to concentration over linear range.

Wet Chemistry Analysis:

Data conforms to method requirements.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Sean Berls Quality Assurance Officer	Or	Jean Revolus Laboratory Director	7/20/23 Date

Reporting Limit Definitions

HC Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

DUP = Duplicate

LCS = Laboratory Control Spike

MBS = Method Blank Spike

MDL = Method Detection Limit

MR = Matrix Replicate

MS = Matrix Spike

MSD = Matrix Spike Duplicate

NA = Not Applicable

ND = Not Detected

PS = Post Digestion Spike

RL* = Reporting Limit

RT = Retention Time

SD = Serial Dilution

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

A- Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

B- Indicates analyte was present in the Method Blank and sample.

d- For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

E- Indicates the concentration exceeded the upper calibration range of the instrument.

J- Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

R- Retention Time is out.

Y- Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

Data Package Summary Forms

HC Report of Analysis

Client: HRP Associates. Inc.
HC Project #: 3061429
Project: 510-514 W. Liberty Street

Sample ID: HB-1 +QA\QC
Lab#: AD38586-001
Matrix: Soil/Terracore
Collection Date: 6/13/2023
Receipt Date: 6/14/2023

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**83**

Chlorinated Herbicides 8151

Analyte	DF	Units	RL	Result
2,4,5-T	1	mg/kg	0.011	ND
2,4-D	1	mg/kg	0.011	ND
Dicamba	1	mg/kg	0.011	ND
Silvex	1	mg/kg	0.011	ND

Mercury (Soil/Waste) 7471B

Analyte	DF	Units	RL	Result
Mercury	**1**	**mg/kg**	**0.10**	**0.23**

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
a-Chlordane	1	mg/kg	0.0060	ND
Aldrin	1	mg/kg	0.0060	ND
Alpha-BHC	1	mg/kg	0.0012	ND
beta-BHC	1	mg/kg	0.0012	ND
Chlordane (Total)	1	mg/kg	0.0060	ND
delta-BHC	1	mg/kg	0.0060	ND
Dieldrin	**1**	**mg/kg**	**0.0012**	**0.0029d**
Endosulfan I	1	mg/kg	0.0060	ND
Endosulfan II	1	mg/kg	0.0060	ND
Endosulfan Sulfate	1	mg/kg	0.0060	ND
Endrin	1	mg/kg	0.0060	ND
Endrin Aldehyde	1	mg/kg	0.0060	ND
Endrin Ketone	1	mg/kg	0.0060	ND
gamma-BHC	1	mg/kg	0.0012	ND
Heptachlor	1	mg/kg	0.0060	ND
Heptachlor Epoxide	1	mg/kg	0.0060	ND
Methoxychlor	1	mg/kg	0.0060	ND
p,p'-DDD	**1**	**mg/kg**	**0.0030**	**0.0045d**
p,p'-DDE	1	mg/kg	0.0030	ND
p,p'-DDT	**1**	**mg/kg**	**0.0030**	**0.026**
Toxaphene	1	mg/kg	0.030	ND
y-Chlordane	1	mg/kg	0.0060	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.030	ND
Aroclor-1016	1	mg/kg	0.030	ND
Aroclor-1221	1	mg/kg	0.030	ND
Aroclor-1232	1	mg/kg	0.030	ND
Aroclor-1242	1	mg/kg	0.030	ND
Aroclor-1248	1	mg/kg	0.030	ND
Aroclor-1254	1	mg/kg	0.030	ND
Aroclor-1260	1	mg/kg	0.030	ND

Sample ID: HB-1 +QA\QC
Lab#: AD38586-001
Matrix: Soil/Terracore
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Aroclor-1262	1	mg/kg	0.030	ND
Aroclor-1268	1	mg/kg	0.030	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.040	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.040	ND
1,4-Dioxane	1	mg/kg	0.011	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.040	ND
2,4,5-Trichlorophenol	1	mg/kg	0.040	ND
2,4,6-Trichlorophenol	1	mg/kg	0.040	ND
2,4-Dichlorophenol	1	mg/kg	0.013	ND
2,4-Dimethylphenol	1	mg/kg	0.022	ND
2,4-Dinitrophenol	1	mg/kg	0.20	ND
2,4-Dinitrotoluene	1	mg/kg	0.040	ND
2,6-Dinitrotoluene	1	mg/kg	0.040	ND
2-Chloronaphthalene	1	mg/kg	0.040	ND
2-Chlorophenol	1	mg/kg	0.040	ND
2-Methylnaphthalene	**1**	**mg/kg**	**0.040**	**0.050**
2-Methylphenol	1	mg/kg	0.012	ND
2-Nitroaniline	1	mg/kg	0.040	ND
2-Nitrophenol	1	mg/kg	0.040	ND
3&4-Methylphenol	1	mg/kg	0.013	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.040	ND
3-Nitroaniline	1	mg/kg	0.040	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.20	ND
4-Bromophenyl-phenylether	1	mg/kg	0.040	ND
4-Chloro-3-methylphenol	1	mg/kg	0.040	ND
4-Chloroaniline	1	mg/kg	0.014	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.040	ND
4-Nitroaniline	1	mg/kg	0.040	ND
4-Nitrophenol	1	mg/kg	0.040	ND
Acenaphthene	1	mg/kg	0.040	ND
Acenaphthylene	**1**	**mg/kg**	**0.040**	**0.047**
Acetophenone	1	mg/kg	0.040	ND
Anthracene	**1**	**mg/kg**	**0.040**	**0.069**
Atrazine	1	mg/kg	0.040	ND
Benzaldehyde	1	mg/kg	0.040	ND
Benzo[a]anthracene	**1**	**mg/kg**	**0.040**	**0.26**
Benzo[a]pyrene	**1**	**mg/kg**	**0.040**	**0.26**
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.040**	**0.44**
Benzo[g,h,i]perylene	**1**	**mg/kg**	**0.040**	**0.18**
Benzo[k]fluoranthene	**1**	**mg/kg**	**0.040**	**0.13**
bis(2-Chloroethoxy)methane	1	mg/kg	0.040	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.013	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.040	ND
bis(2-Ethylhexyl)phthalate	1	mg/kg	0.37	ND
Butylbenzylphthalate	1	mg/kg	0.040	ND
Caprolactam	1	mg/kg	0.040	ND
Carbazole	**1**	**mg/kg**	**0.040**	**0.041**
Chrysene	**1**	**mg/kg**	**0.040**	**0.56**
Dibenzo[a,h]anthracene	**1**	**mg/kg**	**0.040**	**0.061**
Dibenzofuran	**1**	**mg/kg**	**0.010**	**0.046**
Diethylphthalate	1	mg/kg	0.71	ND
Dimethylphthalate	1	mg/kg	0.040	ND
Di-n-butylphthalate	1	mg/kg	0.96	ND
Di-n-octylphthalate	1	mg/kg	0.040	ND

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Fluoranthene	**1**	**mg/kg**	**0.040**	**0.55**
Fluorene	1	mg/kg	0.040	ND
Hexachlorobenzene	1	mg/kg	0.040	ND
Hexachlorobutadiene	1	mg/kg	0.040	ND
Hexachlorocyclopentadiene	1	mg/kg	0.13	ND
Hexachloroethane	1	mg/kg	0.040	ND
Indeno[1,2,3-cd]pyrene	**1**	**mg/kg**	**0.040**	**0.15**
Isophorone	1	mg/kg	0.040	ND
Naphthalene	**1**	**mg/kg**	**0.010**	**0.068**
Nitrobenzene	1	mg/kg	0.040	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.010	ND
N-Nitrosodiphenylamine	1	mg/kg	0.040	ND
Pentachlorophenol	1	mg/kg	0.20	ND
Phenanthrene	**1**	**mg/kg**	**0.040**	**0.49**
Phenol	1	mg/kg	0.040	ND
Pyrene	**1**	**mg/kg**	**0.040**	**0.47**

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Aluminum	**1**	**mg/kg**	**120**	**1200**
Antimony	**1**	**mg/kg**	**0.96**	**9.3**
Arsenic	**1**	**mg/kg**	**0.24**	**69**
Barium	**1**	**mg/kg**	**1.2**	**150**
Beryllium	**1**	**mg/kg**	**0.24**	**0.35**
Cadmium	1	mg/kg	0.48	ND
Calcium	**1**	**mg/kg**	**120**	**3500**
Chromium	**1**	**mg/kg**	**0.48**	**8.8**
Cobalt	**1**	**mg/kg**	**0.48**	**3.9**
Copper	**1**	**mg/kg**	**2.4**	**73**
Iron	**1**	**mg/kg**	**120**	**18000**
Lead	**1**	**mg/kg**	**0.48**	**350**
Magnesium	**1**	**mg/kg**	**120**	**380**
Manganese	**1**	**mg/kg**	**1.4**	**71**
Nickel	**1**	**mg/kg**	**0.72**	**8.2**
Potassium	**1**	**mg/kg**	**120**	**820**
Selenium	**1**	**mg/kg**	**2.4**	**14**
Silver	**1**	**mg/kg**	**0.24**	**0.27**
Sodium	**1**	**mg/kg**	**120**	**280**
Thallium	**1**	**mg/kg**	**0.48**	**1.6**
Vanadium	**1**	**mg/kg**	**0.24**	**11**
Zinc	**1**	**mg/kg**	**4.8**	**88**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1.1	mg/kg	0.0026	ND
1,1,2,2-Tetrachloroethane	1.1	mg/kg	0.0026	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	mg/kg	0.0026	ND
1,1,2-Trichloroethane	1.1	mg/kg	0.0026	ND
1,1-Dichloroethane	1.1	mg/kg	0.0026	ND
1,1-Dichloroethene	1.1	mg/kg	0.0026	ND
1,2,3-Trichlorobenzene	1.1	mg/kg	0.0026	ND
1,2,4-Trichlorobenzene	1.1	mg/kg	0.0026	ND
1,2-Dibromo-3-chloropropane	1.1	mg/kg	0.0026	ND
1,2-Dibromoethane	1.1	mg/kg	0.00086	ND
1,2-Dichlorobenzene	1.1	mg/kg	0.0026	ND
1,2-Dichloroethane	1.1	mg/kg	0.0026	ND
1,2-Dichloropropane	1.1	mg/kg	0.0026	ND

Sample ID: HB-1 +QA\QC
Lab#: AD38586-001
Matrix: Soil/Terracore

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1,3-Dichlorobenzene	1.1	mg/kg	0.0026	ND
1,4-Dichlorobenzene	1.1	mg/kg	0.0026	ND
1,4-Dioxane	1.1	mg/kg	0.13	ND
2-Butanone	1.1	mg/kg	0.0026	ND
2-Hexanone	1.1	mg/kg	0.0026	ND
4-Methyl-2-pentanone	1.1	mg/kg	0.0026	ND
Acetone	1.1	mg/kg	0.013	ND
Benzene	1.1	mg/kg	0.0013	ND
Bromochloromethane	1.1	mg/kg	0.0026	ND
Bromodichloromethane	1.1	mg/kg	0.0026	ND
Bromoform	1.1	mg/kg	0.0026	ND
Bromomethane	1.1	mg/kg	0.0026	ND
Carbon disulfide	1.1	mg/kg	0.0026	ND
Carbon tetrachloride	1.1	mg/kg	0.0026	ND
Chlorobenzene	1.1	mg/kg	0.0026	ND
Chloroethane	1.1	mg/kg	0.0026	ND
Chloroform	1.1	mg/kg	0.0026	ND
Chloromethane	1.1	mg/kg	0.0026	ND
cis-1,2-Dichloroethene	1.1	mg/kg	0.0026	ND
cis-1,3-Dichloropropene	1.1	mg/kg	0.0026	ND
Cyclohexane	1.1	mg/kg	0.0026	ND
Dibromochloromethane	1.1	mg/kg	0.0026	ND
Dichlorodifluoromethane	1.1	mg/kg	0.0026	ND
Ethylbenzene	1.1	mg/kg	0.0013	ND
Isopropylbenzene	1.1	mg/kg	0.0013	ND
m&p-Xylenes	1.1	mg/kg	0.0019	ND
Methyl Acetate	1.1	mg/kg	0.0026	ND
Methylcyclohexane	1.1	mg/kg	0.0026	ND
Methylene chloride	1.1	mg/kg	0.0026	ND
Methyl-t-butyl ether	1.1	mg/kg	0.0013	ND
o-Xylene	1.1	mg/kg	0.0013	ND
Styrene	1.1	mg/kg	0.0026	ND
Tetrachloroethene	1.1	mg/kg	0.0026	ND
Toluene	1.1	mg/kg	0.0013	ND
trans-1,2-Dichloroethene	1.1	mg/kg	0.0026	ND
trans-1,3-Dichloropropene	1.1	mg/kg	0.0026	ND
Trichloroethene	1.1	mg/kg	0.0026	ND
Trichlorofluoromethane	1.1	mg/kg	0.0026	ND
Vinyl chloride	1.1	mg/kg	0.0026	ND
Xylenes (Total)	1.1	mg/kg	0.0013	ND

Sample ID: DUP
Lab#: AD38586-002
Matrix: Soil/Terracore
Collection Date: 6/13/2023
Receipt Date: 6/14/2023

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		73

Chlorinated Herbicides 8151

Analyte	DF	Units	RL	Result
2,4,5-T	1	mg/kg	0.013	ND
2,4-D	1	mg/kg	0.013	ND
Dicamba	1	mg/kg	0.013	ND
Silvex	1	mg/kg	0.013	ND

Mercury (Soil/Waste) 7471B

Analyte	DF	Units	RL	Result
Mercury	1	mg/kg	0.11	0.36

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
a-Chlordane	1	mg/kg	0.0068	ND
Aldrin	1	mg/kg	0.0068	ND
Alpha-BHC	1	mg/kg	0.0014	ND
beta-BHC	1	mg/kg	0.0014	ND
Chlordane (Total)	1	mg/kg	0.0068	ND
delta-BHC	1	mg/kg	0.0068	ND
Dieldrin	1	mg/kg	0.0014	ND
Endosulfan I	1	mg/kg	0.0068	ND
Endosulfan II	1	mg/kg	0.0068	ND
Endosulfan Sulfate	1	mg/kg	0.0068	ND
Endrin	1	mg/kg	0.0068	ND
Endrin Aldehyde	1	mg/kg	0.0068	ND
Endrin Ketone	1	mg/kg	0.0068	ND
gamma-BHC	1	mg/kg	0.0014	ND
Heptachlor	1	mg/kg	0.0068	ND
Heptachlor Epoxide	1	mg/kg	0.0068	ND
Methoxychlor	1	mg/kg	0.0068	ND
p,p'-DDD	1	mg/kg	0.0034	ND
p,p'-DDE	1	mg/kg	0.0034	ND
p,p'-DDT	1	mg/kg	0.0034	ND
Toxaphene	1	mg/kg	0.034	ND
y-Chlordane	1	mg/kg	0.0068	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.034	ND
Aroclor-1016	1	mg/kg	0.034	ND
Aroclor-1221	1	mg/kg	0.034	ND
Aroclor-1232	1	mg/kg	0.034	ND
Aroclor-1242	1	mg/kg	0.034	ND
Aroclor-1248	1	mg/kg	0.034	ND
Aroclor-1254	1	mg/kg	0.034	ND
Aroclor-1260	1	mg/kg	0.034	ND
Aroclor-1262	1	mg/kg	0.034	ND
Aroclor-1268	1	mg/kg	0.034	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.046	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.046	ND

Sample ID:	**DUP**
Lab#:	**AD38586-002**
Matrix:	**Soil/Terracore**
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1,4-Dioxane	1	mg/kg	0.013	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.046	ND
2,4,5-Trichlorophenol	1	mg/kg	0.046	ND
2,4,6-Trichlorophenol	1	mg/kg	0.046	ND
2,4-Dichlorophenol	1	mg/kg	0.015	ND
2,4-Dimethylphenol	1	mg/kg	0.026	ND
2,4-Dinitrophenol	1	mg/kg	0.23	ND
2,4-Dinitrotoluene	1	mg/kg	0.046	ND
2,6-Dinitrotoluene	1	mg/kg	0.046	ND
2-Chloronaphthalene	1	mg/kg	0.046	ND
2-Chlorophenol	1	mg/kg	0.046	ND
2-Methylnaphthalene	**1**	**mg/kg**	**0.046**	**0.066**
2-Methylphenol	1	mg/kg	0.014	ND
2-Nitroaniline	1	mg/kg	0.046	ND
2-Nitrophenol	1	mg/kg	0.046	ND
3&4-Methylphenol	1	mg/kg	0.015	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.046	ND
3-Nitroaniline	1	mg/kg	0.046	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.23	ND
4-Bromophenyl-phenylether	1	mg/kg	0.046	ND
4-Chloro-3-methylphenol	1	mg/kg	0.046	ND
4-Chloroaniline	1	mg/kg	0.016	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.046	ND
4-Nitroaniline	1	mg/kg	0.046	ND
4-Nitrophenol	1	mg/kg	0.046	ND
Acenaphthene	1	mg/kg	0.046	ND
Acenaphthylene	**1**	**mg/kg**	**0.046**	**0.064**
Acetophenone	1	mg/kg	0.046	ND
Anthracene	**1**	**mg/kg**	**0.046**	**0.082**
Atrazine	1	mg/kg	0.046	ND
Benzaldehyde	1	mg/kg	0.046	ND
Benzo[a]anthracene	**1**	**mg/kg**	**0.046**	**0.31**
Benzo[a]pyrene	**1**	**mg/kg**	**0.046**	**0.33**
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.046**	**0.60**
Benzo[g,h,i]perylene	**1**	**mg/kg**	**0.046**	**0.19**
Benzo[k]fluoranthene	**1**	**mg/kg**	**0.046**	**0.15**
bis(2-Chloroethoxy)methane	1	mg/kg	0.046	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.015	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.046	ND
bis(2-Ethylhexyl)phthalate	1	mg/kg	0.42	ND
Butylbenzylphthalate	1	mg/kg	0.046	ND
Caprolactam	1	mg/kg	0.046	ND
Carbazole	**1**	**mg/kg**	**0.046**	**0.047**
Chrysene	**1**	**mg/kg**	**0.046**	**0.65**
Dibenzo[a,h]anthracene	**1**	**mg/kg**	**0.046**	**0.068**
Dibenzofuran	**1**	**mg/kg**	**0.012**	**0.054**
Diethylphthalate	1	mg/kg	0.81	ND
Dimethylphthalate	1	mg/kg	0.046	ND
Di-n-butylphthalate	1	mg/kg	1.1	ND
Di-n-octylphthalate	1	mg/kg	0.046	ND
Fluoranthene	**1**	**mg/kg**	**0.046**	**0.67**
Fluorene	1	mg/kg	0.046	ND
Hexachlorobenzene	1	mg/kg	0.046	ND
Hexachlorobutadiene	1	mg/kg	0.046	ND
Hexachlorocyclopentadiene	1	mg/kg	0.15	ND
Hexachloroethane	1	mg/kg	0.046	ND
Indeno[1,2,3-cd]pyrene	**1**	**mg/kg**	**0.046**	**0.17**

Sample ID: DUP
Lab#: AD38586-002
Matrix: Soil/Terracore
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Isophorone	1	mg/kg	0.046	ND
Naphthalene	**1**	**mg/kg**	**0.011**	**0.073**
Nitrobenzene	1	mg/kg	0.046	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.012	ND
N-Nitrosodiphenylamine	1	mg/kg	0.046	ND
Pentachlorophenol	1	mg/kg	0.23	ND
Phenanthrene	**1**	**mg/kg**	**0.046**	**0.55**
Phenol	1	mg/kg	0.046	ND
Pyrene	**1**	**mg/kg**	**0.046**	**0.58**

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Aluminum	**1**	**mg/kg**	**140**	**2200**
Antimony	**1**	**mg/kg**	**1.1**	**8.4**
Arsenic	**1**	**mg/kg**	**0.27**	**48**
Barium	**1**	**mg/kg**	**1.4**	**110**
Beryllium	**1**	**mg/kg**	**0.27**	**0.45**
Cadmium	1	mg/kg	0.55	ND
Calcium	**1**	**mg/kg**	**140**	**12000**
Chromium	**1**	**mg/kg**	**0.55**	**8.6**
Cobalt	**1**	**mg/kg**	**0.55**	**7.2**
Copper	**1**	**mg/kg**	**2.7**	**110**
Iron	**1**	**mg/kg**	**140**	**16000**
Lead	**1**	**mg/kg**	**0.55**	**360**
Magnesium	**1**	**mg/kg**	**140**	**1100**
Manganese	**1**	**mg/kg**	**1.6**	**130**
Nickel	**1**	**mg/kg**	**0.82**	**9.9**
Potassium	**1**	**mg/kg**	**140**	**730**
Selenium	**1**	**mg/kg**	**2.7**	**10**
Silver	1	mg/kg	0.27	ND
Sodium	**1**	**mg/kg**	**140**	**220**
Thallium	**1**	**mg/kg**	**0.55**	**1.2**
Vanadium	**1**	**mg/kg**	**0.27**	**11**
Zinc	**1**	**mg/kg**	**5.5**	**120**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1.21	mg/kg	0.0033	ND
1,1,2,2-Tetrachloroethane	1.21	mg/kg	0.0033	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1.21	mg/kg	0.0033	ND
1,1,2-Trichloroethane	1.21	mg/kg	0.0033	ND
1,1-Dichloroethane	1.21	mg/kg	0.0033	ND
1,1-Dichloroethene	1.21	mg/kg	0.0033	ND
1,2,3-Trichlorobenzene	1.21	mg/kg	0.0033	ND
1,2,4-Trichlorobenzene	1.21	mg/kg	0.0033	ND
1,2-Dibromo-3-chloropropane	1.21	mg/kg	0.0033	ND
1,2-Dibromoethane	1.21	mg/kg	0.0011	ND
1,2-Dichlorobenzene	1.21	mg/kg	0.0033	ND
1,2-Dichloroethane	1.21	mg/kg	0.0033	ND
1,2-Dichloropropane	1.21	mg/kg	0.0033	ND
1,3-Dichlorobenzene	1.21	mg/kg	0.0033	ND
1,4-Dichlorobenzene	1.21	mg/kg	0.0033	ND
1,4-Dioxane	1.21	mg/kg	0.17	ND
2-Butanone	1.21	mg/kg	0.0033	ND
2-Hexanone	1.21	mg/kg	0.0033	ND
4-Methyl-2-pentanone	1.21	mg/kg	0.0033	ND
Acetone	1.21	mg/kg	0.017	ND

Sample ID: DUP
Lab#: AD38586-002
Matrix: Soil/Terracore
Collection Date: 6/13/2023
Receipt Date: 6/14/2023

Benzene	1.21	mg/kg	0.0017	ND
Bromochloromethane	1.21	mg/kg	0.0033	ND
Bromodichloromethane	1.21	mg/kg	0.0033	ND
Bromoform	1.21	mg/kg	0.0033	ND
Bromomethane	1.21	mg/kg	0.0033	ND
Carbon disulfide	1.21	mg/kg	0.0033	ND
Carbon tetrachloride	1.21	mg/kg	0.0033	ND
Chlorobenzene	1.21	mg/kg	0.0033	ND
Chloroethane	1.21	mg/kg	0.0033	ND
Chloroform	1.21	mg/kg	0.0033	ND
Chloromethane	1.21	mg/kg	0.0033	ND
cis-1,2-Dichloroethene	1.21	mg/kg	0.0033	ND
cis-1,3-Dichloropropene	1.21	mg/kg	0.0033	ND
Cyclohexane	1.21	mg/kg	0.0033	ND
Dibromochloromethane	1.21	mg/kg	0.0033	ND
Dichlorodifluoromethane	1.21	mg/kg	0.0033	ND
Ethylbenzene	1.21	mg/kg	0.0017	ND
Isopropylbenzene	1.21	mg/kg	0.0017	ND
m&p-Xylenes	1.21	mg/kg	0.0024	ND
Methyl Acetate	1.21	mg/kg	0.0033	ND
Methylcyclohexane	1.21	mg/kg	0.0033	ND
Methylene chloride	1.21	mg/kg	0.0033	ND
Methyl-t-butyl ether	1.21	mg/kg	0.0017	ND
o-Xylene	1.21	mg/kg	0.0017	ND
Styrene	1.21	mg/kg	0.0033	ND
Tetrachloroethene	1.21	mg/kg	0.0033	ND
Toluene	1.21	mg/kg	0.0017	ND
trans-1,2-Dichloroethene	1.21	mg/kg	0.0033	ND
trans-1,3-Dichloropropene	1.21	mg/kg	0.0033	ND
Trichloroethene	1.21	mg/kg	0.0033	ND
Trichlorofluoromethane	1.21	mg/kg	0.0033	ND
Vinyl chloride	1.21	mg/kg	0.0033	ND
Xylenes (Total)	1.21	mg/kg	0.0017	ND

Sample ID: HB-2 **Collection Date:** 6/13/2023
Lab#: AD38586-003 **Receipt Date:** 6/14/2023
Matrix: Soil

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**83**

Mercury (Soil/Waste) 7471B

Analyte	DF	Units	RL	Result
Mercury	**1**	**mg/kg**	**0.10**	**0.82**

PAH Compounds 8270

Analyte	DF	Units	RL	Result
2-Methylnaphthalene	1	mg/kg	0.040	ND
Acenaphthene	1	mg/kg	0.040	ND
Acenaphthylene	1	mg/kg	0.040	ND
Anthracene	**1**	**mg/kg**	**0.040**	**0.041**
Benzo[a]anthracene	**1**	**mg/kg**	**0.040**	**0.14**
Benzo[a]pyrene	**1**	**mg/kg**	**0.040**	**0.18**
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.040**	**0.20**
Benzo[g,h,i]perylene	**1**	**mg/kg**	**0.040**	**0.11**
Benzo[k]fluoranthene	**1**	**mg/kg**	**0.040**	**0.066**
Chrysene	**1**	**mg/kg**	**0.040**	**0.14**
Dibenzo[a,h]anthracene	1	mg/kg	0.040	ND
Fluoranthene	**1**	**mg/kg**	**0.040**	**0.18**
Fluorene	1	mg/kg	0.040	ND
Indeno[1,2,3-cd]pyrene	**1**	**mg/kg**	**0.040**	**0.097**
Naphthalene	**1**	**mg/kg**	**0.010**	**0.021**
Phenanthrene	**1**	**mg/kg**	**0.040**	**0.14**
Pyrene	**1**	**mg/kg**	**0.040**	**0.16**

PP Metals 6020B

Analyte	DF	Units	RL	Result
Antimony	**1**	**mg/kg**	**0.96**	**35**
Arsenic	**5**	**mg/kg**	**1.2**	**190**
Beryllium	1	mg/kg	0.24	ND
Cadmium	1	mg/kg	0.48	ND
Chromium	**1**	**mg/kg**	**0.48**	**4.6**
Copper	**1**	**mg/kg**	**2.4**	**30**
Lead	**5**	**mg/kg**	**2.4**	**710**
Nickel	**1**	**mg/kg**	**0.72**	**5.0**
Selenium	**1**	**mg/kg**	**2.4**	**21**
Silver	1	mg/kg	0.24	ND
Thallium	1	mg/kg	0.48	ND
Zinc	**1**	**mg/kg**	**4.8**	**64**

Sample ID: HB-3 **Collection Date:** 6/13/2023
Lab#: AD38586-004 **Receipt Date:** 6/14/2023
Matrix: Soil

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**91**

Mercury (Soil/Waste) 7471B

Analyte	DF	Units	RL	Result
Mercury	**1**	**mg/kg**	**0.092**	**1.4**

PAH Compounds 8270

Analyte	DF	Units	RL	Result
2-Methylnaphthalene	1	mg/kg	0.037	ND
Acenaphthene	1	mg/kg	0.037	ND
Acenaphthylene	1	mg/kg	0.037	ND
Anthracene	**1**	**mg/kg**	**0.037**	**0.042**
Benzo[a]anthracene	**1**	**mg/kg**	**0.037**	**0.048**
Benzo[a]pyrene	1	mg/kg	0.037	ND
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.037**	**0.12**
Benzo[g,h,i]perylene	1	mg/kg	0.037	ND
Benzo[k]fluoranthene	1	mg/kg	0.037	ND
Chrysene	**1**	**mg/kg**	**0.037**	**0.25**
Dibenzo[a,h]anthracene	1	mg/kg	0.037	ND
Fluoranthene	**1**	**mg/kg**	**0.037**	**0.24**
Fluorene	1	mg/kg	0.037	ND
Indeno[1,2,3-cd]pyrene	1	mg/kg	0.037	ND
Naphthalene	**1**	**mg/kg**	**0.0092**	**0.012**
Phenanthrene	**1**	**mg/kg**	**0.037**	**0.13**
Pyrene	**1**	**mg/kg**	**0.037**	**0.042**

PP Metals 6020B

Analyte	DF	Units	RL	Result
Antimony	**1**	**mg/kg**	**0.88**	**1.3**
Arsenic	**5**	**mg/kg**	**1.1**	**210**
Beryllium	**1**	**mg/kg**	**0.22**	**0.61**
Cadmium	1	mg/kg	0.44	ND
Chromium	**1**	**mg/kg**	**0.44**	**11**
Copper	**1**	**mg/kg**	**2.2**	**85**
Lead	**1**	**mg/kg**	**0.44**	**87**
Nickel	**1**	**mg/kg**	**0.66**	**15**
Selenium	**1**	**mg/kg**	**2.2**	**38**
Silver	1	mg/kg	0.22	ND
Thallium	**1**	**mg/kg**	**0.44**	**0.97**
Zinc	**1**	**mg/kg**	**4.4**	**53**

Sample ID: OutbuildingSump
Lab#: AD38586-005
Matrix: Aqueous
Collection Date: 6/13/2023
Receipt Date: 6/14/2023

PAH Compounds 8270

Analyte	DF	Units	RL	Result
2-Methylnaphthalene	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Phenanthrene	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	0.81	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.66	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	0.74	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	0.74	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	0.80	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	0.68	ND

Sample ID: OutbuildingSump **Collection Date:** 6/13/2023
Lab#: AD38586-005 **Receipt Date:** 6/14/2023
Matrix: Aqueous

Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	0.68	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: TW-1 **Collection Date:** 6/13/2023
Lab#: AD38586-006 **Receipt Date:** 6/14/2023
Matrix: Aqueous

PAH Compounds 8270

Analyte	DF	Units	RL	Result
2-Methylnaphthalene	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	**1**	**ug/l**	**2.0**	**2.0**
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Fluoranthene	**1**	**ug/l**	**2.0**	**2.3**
Fluorene	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Phenanthrene	1	ug/l	2.0	ND
Pyrene	**1**	**ug/l**	**2.0**	**2.3**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	0.81	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.66	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	**1**	**ug/l**	**5.0**	**6.7**
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	0.74	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	0.74	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	0.80	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	0.68	ND

Sample ID: TW-1 **Collection Date:** 6/13/2023
Lab#: AD38586-006 **Receipt Date:** 6/14/2023
Matrix: Aqueous

Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	0.68	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: HB-1 +QA\QC MS
Lab#: AD38586-007
Matrix: Soil/Terracore

Collection Date: 6/13/2023
Receipt Date: 6/14/2023

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		82

Chlorinated Herbicides 8151

Analyte	DF	Units	RL	Result
2,4,5-T	1	mg/kg	0.012	0.023
2,4-D	1	mg/kg	0.011	0.022
Dicamba	1	mg/kg	0.011	0.023
Silvex	1	mg/kg	0.012	0.025

Mercury (Soil/Waste) 7471B

Analyte	DF	Units	RL	Result
Mercury	1	mg/kg	0.10	2.2

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
a-Chlordane	1	mg/kg	0.0061	0.059
Aldrin	1	mg/kg	0.0061	0.056
Alpha-BHC	1	mg/kg	0.0012	0.052
beta-BHC	1	mg/kg	0.0012	0.058
Chlordane (Total)	1	mg/kg	0.0061	0.11
delta-BHC	1	mg/kg	0.0061	0.052
Dieldrin	1	mg/kg	0.0012	0.086
Endosulfan I	1	mg/kg	0.0061	0.057
Endosulfan II	1	mg/kg	0.0061	0.055
Endosulfan Sulfate	1	mg/kg	0.0061	0.047
Endrin	1	mg/kg	0.0061	0.086
Endrin Aldehyde	1	mg/kg	0.0061	0.052d
Endrin Ketone	1	mg/kg	0.0061	0.069
gamma-BHC	1	mg/kg	0.0012	0.051
Heptachlor	1	mg/kg	0.0061	0.058
Heptachlor Epoxide	1	mg/kg	0.0061	0.055
Methoxychlor	1	mg/kg	0.0061	0.056
p,p'-DDD	1	mg/kg	0.0030	0.053
p,p'-DDE	1	mg/kg	0.0030	0.059
p,p'-DDT	1	mg/kg	0.0030	0.079
Toxaphene	1	mg/kg	0.030	ND
y-Chlordane	1	mg/kg	0.0061	0.053

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.030	1.4
Aroclor-1016	1	mg/kg	0.030	0.74
Aroclor-1221	1	mg/kg	0.030	ND
Aroclor-1232	1	mg/kg	0.030	ND
Aroclor-1242	1	mg/kg	0.030	ND
Aroclor-1248	1	mg/kg	0.030	ND
Aroclor-1254	1	mg/kg	0.030	ND
Aroclor-1260	1	mg/kg	0.030	0.68
Aroclor-1262	1	mg/kg	0.030	ND
Aroclor-1268	1	mg/kg	0.030	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.041	0.75
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.041	0.82

Sample ID:	**HB-1 +QA\QC MS**
Lab#:	**AD38586-007**
Matrix:	**Soil/Terracore**
Collection Date:	**6/13/2023**
Receipt Date:	**6/14/2023**

1,4-Dioxane	1	mg/kg	0.012	0.24
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.041	1.4
2,4,5-Trichlorophenol	1	mg/kg	0.041	1.6
2,4,6-Trichlorophenol	1	mg/kg	0.041	1.6
2,4-Dichlorophenol	1	mg/kg	0.013	1.6
2,4-Dimethylphenol	1	mg/kg	0.023	1.4
2,4-Dinitrophenol	1	mg/kg	0.20	0.44
2,4-Dinitrotoluene	1	mg/kg	0.041	0.85
2,6-Dinitrotoluene	1	mg/kg	0.041	0.87
2-Chloronaphthalene	1	mg/kg	0.041	0.86
2-Chlorophenol	1	mg/kg	0.041	1.6
2-Methylnaphthalene	1	mg/kg	0.041	0.88
2-Methylphenol	1	mg/kg	0.013	1.4
2-Nitroaniline	1	mg/kg	0.041	0.77
2-Nitrophenol	1	mg/kg	0.041	1.5
3&4-Methylphenol	1	mg/kg	0.013	1.5
3,3'-Dichlorobenzidine	1	mg/kg	0.041	0.046
3-Nitroaniline	1	mg/kg	0.041	0.60
4,6-Dinitro-2-methylphenol	1	mg/kg	0.20	0.63
4-Bromophenyl-phenylether	1	mg/kg	0.041	0.82
4-Chloro-3-methylphenol	1	mg/kg	0.041	1.6
4-Chloroaniline	1	mg/kg	0.014	0.40
4-Chlorophenyl-phenylether	1	mg/kg	0.041	0.82
4-Nitroaniline	1	mg/kg	0.041	0.56
4-Nitrophenol	1	mg/kg	0.041	1.6
Acenaphthene	1	mg/kg	0.041	0.87
Acenaphthylene	1	mg/kg	0.041	0.93
Acetophenone	1	mg/kg	0.041	0.77
Anthracene	1	mg/kg	0.041	0.88
Atrazine	1	mg/kg	0.041	0.73
Benzaldehyde	1	mg/kg	0.041	0.53
Benzo[a]anthracene	1	mg/kg	0.041	1.1
Benzo[a]pyrene	1	mg/kg	0.041	1.1
Benzo[b]fluoranthene	1	mg/kg	0.041	1.3
Benzo[g,h,i]perylene	1	mg/kg	0.041	0.87
Benzo[k]fluoranthene	1	mg/kg	0.041	1.0
bis(2-Chloroethoxy)methane	1	mg/kg	0.041	0.78
bis(2-Chloroethyl)ether	1	mg/kg	0.013	0.77
bis(2-Chloroisopropyl)ether	1	mg/kg	0.041	0.51
bis(2-Ethylhexyl)phthalate	1	mg/kg	0.37	0.99
Butylbenzylphthalate	1	mg/kg	0.041	0.93
Caprolactam	1	mg/kg	0.041	0.74
Carbazole	1	mg/kg	0.041	0.89
Chrysene	1	mg/kg	0.041	1.3
Dibenzo[a,h]anthracene	1	mg/kg	0.041	0.84
Dibenzofuran	1	mg/kg	0.011	0.92
Diethylphthalate	1	mg/kg	0.72	0.87
Dimethylphthalate	1	mg/kg	0.041	0.86
Di-n-butylphthalate	1	mg/kg	0.97	0.92J
Di-n-octylphthalate	1	mg/kg	0.041	0.93
Fluoranthene	1	mg/kg	0.041	1.3
Fluorene	1	mg/kg	0.041	0.86
Hexachlorobenzene	1	mg/kg	0.041	0.77
Hexachlorobutadiene	1	mg/kg	0.041	0.78
Hexachlorocyclopentadiene	1	mg/kg	0.14	0.041J
Hexachloroethane	1	mg/kg	0.041	0.70
Indeno[1,2,3-cd]pyrene	1	mg/kg	0.041	0.93

Sample ID: HB-1 +QA\QC MS
Lab#: AD38586-007
Matrix: Soil/Terracore

Collection Date: 6/13/2023
Receipt Date: 6/14/2023

Isophorone	1	mg/kg	0.041	0.69
Naphthalene	1	mg/kg	0.010	0.80
Nitrobenzene	1	mg/kg	0.041	0.81
N-Nitroso-di-n-propylamine	1	mg/kg	0.010	0.73
N-Nitrosodiphenylamine	1	mg/kg	0.041	0.75
Pentachlorophenol	1	mg/kg	0.20	1.3
Phenanthrene	1	mg/kg	0.041	1.2
Phenol	1	mg/kg	0.041	1.5
Pyrene	1	mg/kg	0.041	1.3

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Aluminum	1	mg/kg	120	2700
Antimony	1	mg/kg	0.98	33
Arsenic	1	mg/kg	0.24	100
Barium	1	mg/kg	1.2	180
Beryllium	1	mg/kg	0.24	47
Cadmium	1	mg/kg	0.49	51
Calcium	1	mg/kg	120	11000
Chromium	1	mg/kg	0.49	63
Cobalt	1	mg/kg	0.49	57
Copper	1	mg/kg	2.4	140
Iron	1	mg/kg	120	18000
Lead	1	mg/kg	0.49	340
Magnesium	1	mg/kg	120	5800
Manganese	1	mg/kg	1.5	140
Nickel	1	mg/kg	0.73	60
Potassium	1	mg/kg	120	5600
Selenium	1	mg/kg	2.4	57
Silver	1	mg/kg	0.24	9.7
Sodium	1	mg/kg	120	5300
Thallium	1	mg/kg	0.49	39
Vanadium	1	mg/kg	0.24	63
Zinc	1	mg/kg	4.9	150

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1.21	mg/kg	0.0030	0.048
1,1,2,2-Tetrachloroethane	1.21	mg/kg	0.0030	0.016
1,1,2-Trichloro-1,2,2-trifluoroethane	1.21	mg/kg	0.0030	0.051
1,1,2-Trichloroethane	1.21	mg/kg	0.0030	0.012
1,1-Dichloroethane	1.21	mg/kg	0.0030	0.033
1,1-Dichloroethene	1.21	mg/kg	0.0030	0.031
1,2,3-Trichlorobenzene	1.21	mg/kg	0.0030	0.0014J
1,2,4-Trichlorobenzene	1.21	mg/kg	0.0030	0.0011J
1,2-Dibromo-3-chloropropane	1.21	mg/kg	0.0030	0.0065
1,2-Dibromoethane	1.21	mg/kg	0.00096	0.0024
1,2-Dichlorobenzene	1.21	mg/kg	0.0030	0.0024J
1,2-Dichloroethane	1.21	mg/kg	0.0030	0.0082
1,2-Dichloropropane	1.21	mg/kg	0.0030	0.022
1,3-Dichlorobenzene	1.21	mg/kg	0.0030	0.0024J
1,4-Dichlorobenzene	1.21	mg/kg	0.0030	0.0017J
1,4-Dioxane	1.21	mg/kg	0.15	1.9
2-Butanone	1.21	mg/kg	0.0030	0.025
2-Hexanone	1.21	mg/kg	0.0030	0.0072
4-Methyl-2-pentanone	1.21	mg/kg	0.0030	0.020
Acetone	1.21	mg/kg	0.015	0.19

Sample ID:	**HB-1 +QA\QC MS**
Lab#:	**AD38586-007**
Matrix:	**Soil/Terracore**
Collection Date:	**6/13/2023**
Receipt Date:	**6/14/2023**

Benzene	1.21	mg/kg	0.0015	0.022
Bromochloromethane	1.21	mg/kg	0.0030	0.0094
Bromodichloromethane	1.21	mg/kg	0.0030	0.013
Bromoform	1.21	mg/kg	0.0030	0.0079
Bromomethane	1.21	mg/kg	0.0030	0.021
Carbon disulfide	1.21	mg/kg	0.0030	0.017
Carbon tetrachloride	1.21	mg/kg	0.0030	0.042
Chlorobenzene	1.21	mg/kg	0.0030	0.0042
Chloroethane	1.21	mg/kg	0.0030	0.036
Chloroform	1.21	mg/kg	0.0030	0.023
Chloromethane	1.21	mg/kg	0.0030	0.050
cis-1,2-Dichloroethene	1.21	mg/kg	0.0030	0.015
cis-1,3-Dichloropropene	1.21	mg/kg	0.0030	0.0033
Cyclohexane	1.21	mg/kg	0.0030	0.039
Dibromochloromethane	1.21	mg/kg	0.0030	0.0083
Dichlorodifluoromethane	1.21	mg/kg	0.0030	0.067
Ethylbenzene	1.21	mg/kg	0.0015	0.012
Isopropylbenzene	1.21	mg/kg	0.0015	0.019
m&p-Xylenes	1.21	mg/kg	0.0022	0.022
Methyl Acetate	1.21	mg/kg	0.0030	0.027
Methylcyclohexane	1.21	mg/kg	0.0030	0.030
Methylene chloride	1.21	mg/kg	0.0030	0.019
Methyl-t-butyl ether	1.21	mg/kg	0.0015	0.045
o-Xylene	1.21	mg/kg	0.0015	0.014
Styrene	1.21	mg/kg	0.0030	0.0033
Tetrachloroethene	1.21	mg/kg	0.0030	0.018
Toluene	1.21	mg/kg	0.0015	0.013
trans-1,2-Dichloroethene	1.21	mg/kg	0.0030	0.014
trans-1,3-Dichloropropene	1.21	mg/kg	0.0030	0.0017J
Trichloroethene	1.21	mg/kg	0.0030	0.011
Trichlorofluoromethane	1.21	mg/kg	0.0030	0.048
Vinyl chloride	1.21	mg/kg	0.0030	0.040
Xylenes (Total)	1.21	mg/kg	0.0015	0.036

Sample ID: HB-1 +QA\QC MSD
Lab#: AD38586-008
Matrix: Soil/Terracore

Collection Date: 6/13/2023
Receipt Date: 6/14/2023

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		83

Chlorinated Herbicides 8151

Analyte	DF	Units	RL	Result
2,4,5-T	1	mg/kg	0.011	0.024
2,4-D	1	mg/kg	0.011	0.025
Dicamba	1	mg/kg	0.011	0.025
Silvex	1	mg/kg	0.011	0.028

Mercury (Soil/Waste) 7471B

Analyte	DF	Units	RL	Result
Mercury	1	mg/kg	0.10	2.5

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
a-Chlordane	1	mg/kg	0.0060	0.068
Aldrin	1	mg/kg	0.0060	0.064
Alpha-BHC	1	mg/kg	0.0012	0.058
beta-BHC	1	mg/kg	0.0012	0.067
Chlordane (Total)	1	mg/kg	0.0060	0.13
delta-BHC	1	mg/kg	0.0060	0.058
Dieldrin	1	mg/kg	0.0012	0.10
Endosulfan I	1	mg/kg	0.0060	0.066
Endosulfan II	1	mg/kg	0.0060	0.063
Endosulfan Sulfate	1	mg/kg	0.0060	0.055
Endrin	1	mg/kg	0.0060	0.10
Endrin Aldehyde	1	mg/kg	0.0060	0.067d
Endrin Ketone	1	mg/kg	0.0060	0.081
gamma-BHC	1	mg/kg	0.0012	0.057
Heptachlor	1	mg/kg	0.0060	0.066
Heptachlor Epoxide	1	mg/kg	0.0060	0.062
Methoxychlor	1	mg/kg	0.0060	0.070
p,p'-DDD	1	mg/kg	0.0030	0.061
p,p'-DDE	1	mg/kg	0.0030	0.068
p,p'-DDT	1	mg/kg	0.0030	0.12
Toxaphene	1	mg/kg	0.030	ND
y-Chlordane	1	mg/kg	0.0060	0.061

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.030	1.3
Aroclor-1016	1	mg/kg	0.030	0.65
Aroclor-1221	1	mg/kg	0.030	ND
Aroclor-1232	1	mg/kg	0.030	ND
Aroclor-1242	1	mg/kg	0.030	ND
Aroclor-1248	1	mg/kg	0.030	ND
Aroclor-1254	1	mg/kg	0.030	ND
Aroclor-1260	1	mg/kg	0.030	0.63
Aroclor-1262	1	mg/kg	0.030	ND
Aroclor-1268	1	mg/kg	0.030	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.040	0.74
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.040	0.79

Sample ID: HB-1 +QA\QC MSD			Collection Date: 6/13/2023	
Lab#: AD38586-008			Receipt Date: 6/14/2023	
Matrix: Soil/Terracore				
1,4-Dioxane	1	mg/kg	0.011	0.28
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.040	1.5
2,4,5-Trichlorophenol	1	mg/kg	0.040	1.6
2,4,6-Trichlorophenol	1	mg/kg	0.040	1.7
2,4-Dichlorophenol	1	mg/kg	0.013	1.6
2,4-Dimethylphenol	1	mg/kg	0.022	1.5
2,4-Dinitrophenol	1	mg/kg	0.20	0.14J
2,4-Dinitrotoluene	1	mg/kg	0.040	0.74
2,6-Dinitrotoluene	1	mg/kg	0.040	0.77
2-Chloronaphthalene	1	mg/kg	0.040	0.83
2-Chlorophenol	1	mg/kg	0.040	1.5
2-Methylnaphthalene	1	mg/kg	0.040	0.92
2-Methylphenol	1	mg/kg	0.012	1.4
2-Nitroaniline	1	mg/kg	0.040	0.73
2-Nitrophenol	1	mg/kg	0.040	1.3
3&4-Methylphenol	1	mg/kg	0.013	1.5
3,3'-Dichlorobenzidine	1	mg/kg	0.040	0.087
3-Nitroaniline	1	mg/kg	0.040	0.64
4,6-Dinitro-2-methylphenol	1	mg/kg	0.20	0.21
4-Bromophenyl-phenylether	1	mg/kg	0.040	0.85
4-Chloro-3-methylphenol	1	mg/kg	0.040	1.6
4-Chloroaniline	1	mg/kg	0.014	0.45
4-Chlorophenyl-phenylether	1	mg/kg	0.040	0.82
4-Nitroaniline	1	mg/kg	0.040	0.54
4-Nitrophenol	1	mg/kg	0.040	1.5
Acenaphthene	1	mg/kg	0.040	0.85
Acenaphthylene	1	mg/kg	0.040	0.97
Acetophenone	1	mg/kg	0.040	0.72
Anthracene	1	mg/kg	0.040	0.93
Atrazine	1	mg/kg	0.040	0.72
Benzaldehyde	1	mg/kg	0.040	0.46
Benzo[a]anthracene	1	mg/kg	0.040	1.2
Benzo[a]pyrene	1	mg/kg	0.040	1.2
Benzo[b]fluoranthene	1	mg/kg	0.040	1.4
Benzo[g,h,i]perylene	1	mg/kg	0.040	0.83
Benzo[k]fluoranthene	1	mg/kg	0.040	1.1
bis(2-Chloroethoxy)methane	1	mg/kg	0.040	0.79
bis(2-Chloroethyl)ether	1	mg/kg	0.013	0.71
bis(2-Chloroisopropyl)ether	1	mg/kg	0.040	0.50
bis(2-Ethylhexyl)phthalate	1	mg/kg	0.37	0.91
Butylbenzylphthalate	1	mg/kg	0.040	0.89
Caprolactam	1	mg/kg	0.040	0.71
Carbazole	1	mg/kg	0.040	0.86
Chrysene	1	mg/kg	0.040	1.4
Dibenzo[a,h]anthracene	1	mg/kg	0.040	0.78
Dibenzofuran	1	mg/kg	0.010	0.93
Diethylphthalate	1	mg/kg	0.71	0.85
Dimethylphthalate	1	mg/kg	0.040	0.84
Di-n-butylphthalate	1	mg/kg	0.96	0.91J
Di-n-octylphthalate	1	mg/kg	0.040	0.91
Fluoranthene	1	mg/kg	0.040	1.5
Fluorene	1	mg/kg	0.040	0.86
Hexachlorobenzene	1	mg/kg	0.040	0.81
Hexachlorobutadiene	1	mg/kg	0.040	0.84
Hexachlorocyclopentadiene	1	mg/kg	0.13	0.035J
Hexachloroethane	1	mg/kg	0.040	0.63
Indeno[1,2,3-cd]pyrene	1	mg/kg	0.040	0.90

Sample ID: HB-1 +QA\QC MSD
Lab#: AD38586-008
Matrix: Soil/Terracore

Collection Date: 6/13/2023
Receipt Date: 6/14/2023

Isophorone	1	mg/kg	0.040	0.69
Naphthalene	1	mg/kg	0.010	0.84
Nitrobenzene	1	mg/kg	0.040	0.81
N-Nitroso-di-n-propylamine	1	mg/kg	0.010	0.72
N-Nitrosodiphenylamine	1	mg/kg	0.040	0.74
Pentachlorophenol	1	mg/kg	0.20	1.4
Phenanthrene	1	mg/kg	0.040	1.5
Phenol	1	mg/kg	0.040	1.4
Pyrene	1	mg/kg	0.040	1.5

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Aluminum	1	mg/kg	120	1800
Antimony	1	mg/kg	0.96	40
Arsenic	1	mg/kg	0.24	110
Barium	1	mg/kg	1.2	170
Beryllium	1	mg/kg	0.24	46
Cadmium	1	mg/kg	0.48	44
Calcium	1	mg/kg	120	8800
Chromium	1	mg/kg	0.48	56
Cobalt	1	mg/kg	0.48	51
Copper	1	mg/kg	2.4	320
Iron	1	mg/kg	120	15000
Lead	1	mg/kg	0.48	310
Magnesium	1	mg/kg	120	5000
Manganese	1	mg/kg	1.4	110
Nickel	1	mg/kg	0.72	54
Potassium	1	mg/kg	120	5300
Selenium	1	mg/kg	2.4	57
Silver	1	mg/kg	0.24	9.1
Sodium	1	mg/kg	120	4900
Thallium	1	mg/kg	0.48	36
Vanadium	1	mg/kg	0.24	58
Zinc	1	mg/kg	4.8	100

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1.1	mg/kg	0.0026	0.051
1,1,2,2-Tetrachloroethane	1.1	mg/kg	0.0026	0.023
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	mg/kg	0.0026	0.061
1,1,2-Trichloroethane	1.1	mg/kg	0.0026	0.013
1,1-Dichloroethane	1.1	mg/kg	0.0026	0.032
1,1-Dichloroethene	1.1	mg/kg	0.0026	0.032
1,2,3-Trichlorobenzene	1.1	mg/kg	0.0026	0.0011J
1,2,4-Trichlorobenzene	1.1	mg/kg	0.0026	0.00095J
1,2-Dibromo-3-chloropropane	1.1	mg/kg	0.0026	0.0086
1,2-Dibromoethane	1.1	mg/kg	0.00086	0.0026
1,2-Dichlorobenzene	1.1	mg/kg	0.0026	0.0032
1,2-Dichloroethane	1.1	mg/kg	0.0026	0.0072
1,2-Dichloropropane	1.1	mg/kg	0.0026	0.021
1,3-Dichlorobenzene	1.1	mg/kg	0.0026	0.0025J
1,4-Dichlorobenzene	1.1	mg/kg	0.0026	0.0020J
1,4-Dioxane	1.1	mg/kg	0.13	2.0
2-Butanone	1.1	mg/kg	0.0026	0.023
2-Hexanone	1.1	mg/kg	0.0026	0.0081
4-Methyl-2-pentanone	1.1	mg/kg	0.0026	0.023
Acetone	1.1	mg/kg	0.013	0.20

Sample ID:	**HB-1 +QA\QC MSD**			**Collection Date:**	**6/13/2023**
Lab#:	**AD38586-008**			**Receipt Date:**	**6/14/2023**
Matrix:	**Soil/Terracore**				

Benzene	1.1	mg/kg	0.0013	0.020
Bromochloromethane	1.1	mg/kg	0.0026	0.0086
Bromodichloromethane	1.1	mg/kg	0.0026	0.012
Bromoform	1.1	mg/kg	0.0026	0.011
Bromomethane	1.1	mg/kg	0.0026	0.021
Carbon disulfide	1.1	mg/kg	0.0026	0.020
Carbon tetrachloride	1.1	mg/kg	0.0026	0.050
Chlorobenzene	1.1	mg/kg	0.0026	0.0039
Chloroethane	1.1	mg/kg	0.0026	0.034
Chloroform	1.1	mg/kg	0.0026	0.021
Chloromethane	1.1	mg/kg	0.0026	0.051
cis-1,2-Dichloroethene	1.1	mg/kg	0.0026	0.013
cis-1,3-Dichloropropene	1.1	mg/kg	0.0026	0.0033
Cyclohexane	1.1	mg/kg	0.0026	0.051
Dibromochloromethane	1.1	mg/kg	0.0026	0.0093
Dichlorodifluoromethane	1.1	mg/kg	0.0026	0.071
Ethylbenzene	1.1	mg/kg	0.0013	0.014
Isopropylbenzene	1.1	mg/kg	0.0013	0.026
m&p-Xylenes	1.1	mg/kg	0.0019	0.026
Methyl Acetate	1.1	mg/kg	0.0026	0.021
Methylcyclohexane	1.1	mg/kg	0.0026	0.043
Methylene chloride	1.1	mg/kg	0.0026	0.018
Methyl-t-butyl ether	1.1	mg/kg	0.0013	0.048
o-Xylene	1.1	mg/kg	0.0013	0.018
Styrene	1.1	mg/kg	0.0026	0.0039
Tetrachloroethene	1.1	mg/kg	0.0026	0.022
Toluene	1.1	mg/kg	0.0013	0.013
trans-1,2-Dichloroethene	1.1	mg/kg	0.0026	0.012
trans-1,3-Dichloropropene	1.1	mg/kg	0.0026	0.0016J
Trichloroethene	1.1	mg/kg	0.0026	0.0090
Trichlorofluoromethane	1.1	mg/kg	0.0026	0.054
Vinyl chloride	1.1	mg/kg	0.0026	0.043
Xylenes (Total)	1.1	mg/kg	0.0013	0.044

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38586-001
Client Id: HB-1 +QA\QC
Data File: 6M169566.D
Analysis Date: 06/16/23 11:41
Date Rec/Extracted: 06/14/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 4.56g
Final Vol: NA
Dilution: 1.10
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0026	U	56-23-5	Carbon Tetrachloride	0.0026	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0026	U	108-90-7	Chlorobenzene	0.0026	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0026	U	75-00-3	Chloroethane	0.0026	U
79-00-5	1,1,2-Trichloroethane	0.0026	U	67-66-3	Chloroform	0.0026	U
75-34-3	1,1-Dichloroethane	0.0026	U	74-87-3	Chloromethane	0.0026	U
75-35-4	1,1-Dichloroethene	0.0026	U	156-59-2	cis-1,2-Dichloroethene	0.0026	U
87-61-6	1,2,3-Trichlorobenzene	0.0026	U	10061-01-5	cis-1,3-Dichloropropene	0.0026	U
120-82-1	1,2,4-Trichlorobenzene	0.0026	U	110-82-7	Cyclohexane	0.0026	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0026	U	124-48-1	Dibromochloromethane	0.0026	U
106-93-4	1,2-Dibromoethane	0.00086	U	75-71-8	Dichlorodifluoromethane	0.0026	U
95-50-1	1,2-Dichlorobenzene	0.0026	U	100-41-4	Ethylbenzene	0.0013	U
107-06-2	1,2-Dichloroethane	0.0026	U	98-82-8	Isopropylbenzene	0.0013	U
78-87-5	1,2-Dichloropropane	0.0026	U	79601-23-1	m&p-Xylenes	0.0019	U
541-73-1	1,3-Dichlorobenzene	0.0026	U	79-20-9	Methyl Acetate	0.0026	U
106-46-7	1,4-Dichlorobenzene	0.0026	U	108-87-2	Methylcyclohexane	0.0026	U
123-91-1	1,4-Dioxane	0.13	U	75-09-2	Methylene Chloride	0.0026	U
78-93-3	2-Butanone	0.0026	U	1634-04-4	Methyl-t-butyl ether	0.0013	U
591-78-6	2-Hexanone	0.0026	U	95-47-6	o-Xylene	0.0013	U
108-10-1	4-Methyl-2-Pentanone	0.0026	U	100-42-5	Styrene	0.0026	U
67-64-1	Acetone	0.013	U	127-18-4	Tetrachloroethene	0.0026	U
71-43-2	Benzene	0.0013	U	108-88-3	Toluene	0.0013	U
74-97-5	Bromochloromethane	0.0026	U	156-60-5	trans-1,2-Dichloroethene	0.0026	U
75-27-4	Bromodichloromethane	0.0026	U	10061-02-6	trans-1,3-Dichloropropene	0.0026	U
75-25-2	Bromoform	0.0026	U	79-01-6	Trichloroethene	0.0026	U
74-83-9	Bromomethane	0.0026	U	75-69-4	Trichlorofluoromethane	0.0026	U
75-15-0	Carbon Disulfide	0.0026	U	75-01-4	Vinyl Chloride	0.0026	U
1330-20-7	Xylenes (Total)	0.0013	U				

Worksheet #: 696297

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38586-002
Client Id: DUP
Data File: 6M169567.D
Analysis Date: 06/16/23 12:03
Date Rec/Extracted: 06/14/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 4.14g
Final Vol: NA
Dilution: 1.21
Solids: 73

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0033	U	56-23-5	Carbon Tetrachloride	0.0033	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0033	U	108-90-7	Chlorobenzene	0.0033	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0033	U	75-00-3	Chloroethane	0.0033	U
79-00-5	1,1,2-Trichloroethane	0.0033	U	67-66-3	Chloroform	0.0033	U
75-34-3	1,1-Dichloroethane	0.0033	U	74-87-3	Chloromethane	0.0033	U
75-35-4	1,1-Dichloroethene	0.0033	U	156-59-2	cis-1,2-Dichloroethene	0.0033	U
87-61-6	1,2,3-Trichlorobenzene	0.0033	U	10061-01-5	cis-1,3-Dichloropropene	0.0033	U
120-82-1	1,2,4-Trichlorobenzene	0.0033	U	110-82-7	Cyclohexane	0.0033	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0033	U	124-48-1	Dibromochloromethane	0.0033	U
106-93-4	1,2-Dibromoethane	0.0011	U	75-71-8	Dichlorodifluoromethane	0.0033	U
95-50-1	1,2-Dichlorobenzene	0.0033	U	100-41-4	Ethylbenzene	0.0017	U
107-06-2	1,2-Dichloroethane	0.0033	U	98-82-8	Isopropylbenzene	0.0017	U
78-87-5	1,2-Dichloropropane	0.0033	U	79601-23-1	m&p-Xylenes	0.0024	U
541-73-1	1,3-Dichlorobenzene	0.0033	U	79-20-9	Methyl Acetate	0.0033	U
106-46-7	1,4-Dichlorobenzene	0.0033	U	108-87-2	Methylcyclohexane	0.0033	U
123-91-1	1,4-Dioxane	0.17	U	75-09-2	Methylene Chloride	0.0033	U
78-93-3	2-Butanone	0.0033	U	1634-04-4	Methyl-t-butyl ether	0.0017	U
591-78-6	2-Hexanone	0.0033	U	95-47-6	o-Xylene	0.0017	U
108-10-1	4-Methyl-2-Pentanone	0.0033	U	100-42-5	Styrene	0.0033	U
67-64-1	Acetone	0.017	U	127-18-4	Tetrachloroethene	0.0033	U
71-43-2	Benzene	0.0017	U	108-88-3	Toluene	0.0017	U
74-97-5	Bromochloromethane	0.0033	U	156-60-5	trans-1,2-Dichloroethene	0.0033	U
75-27-4	Bromodichloromethane	0.0033	U	10061-02-6	trans-1,3-Dichloropropene	0.0033	U
75-25-2	Bromoform	0.0033	U	79-01-6	Trichloroethene	0.0033	U
74-83-9	Bromomethane	0.0033	U	75-69-4	Trichlorofluoromethane	0.0033	U
75-15-0	Carbon Disulfide	0.0033	U	75-01-4	Vinyl Chloride	0.0033	U
1330-20-7	Xylenes (Total)	0.0017	U				

Worksheet #: 696297

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38586-005
Client Id: OutbuildingSump
Data File: 2M186049.D
Analysis Date: 06/15/23 23:15
Date Rec/Extracted: 06/14/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	0.74	U
75-34-3	1,1-Dichloroethane	0.81	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	0.80	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	0.68	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.66	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	0.74	U	156-60-5	trans-1,2-Dichloroethene	0.68	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 696297

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38586-006
Client Id: TW-1
Data File: 2M186050.D
Analysis Date: 06/15/23 23:35
Date Rec/Extracted: 06/14/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	0.74	U
75-34-3	1,1-Dichloroethane	0.81	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	0.80	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	0.68	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.66	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	**Acetone**	**5.0**	**6.7**	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	0.74	U	156-60-5	trans-1,2-Dichloroethene	0.68	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 696297

Total Target Concentration 6.7

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used.
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38586-007(MS:AD38
Client Id: HB-1 +QA\QC MS
Data File: 6M169571.D
Analysis Date: 06/16/23 13:32
Date Rec/Extracted: 06/14/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 4.13g
Final Vol: NA
Dilution: 1.21
Solids: 82

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0030	0.048	56-23-5	Carbon Tetrachloride	0.0030	0.042
79-34-5	1,1,2,2-Tetrachloroethane	0.0030	0.016	108-90-7	Chlorobenzene	0.0030	0.0042
76-13-1	1,1,2-Trichloro-1,2,2-triflu	0.0030	0.051	75-00-3	Chloroethane	0.0030	0.036
79-00-5	1,1,2-Trichloroethane	0.0030	0.012	67-66-3	Chloroform	0.0030	0.023
75-34-3	1,1-Dichloroethane	0.0030	0.033	74-87-3	Chloromethane	0.0030	0.050
75-35-4	1,1-Dichloroethene	0.0030	0.031	156-59-2	cis-1,2-Dichloroethene	0.0030	0.015
87-61-6	1,2,3-Trichlorobenzene	0.0030	0.0014 J	10061-01-5	cis-1,3-Dichloropropene	0.0030	0.0033
120-82-1	1,2,4-Trichlorobenzene	0.0030	0.0011 J	110-82-7	Cyclohexane	0.0030	0.039
96-12-8	1,2-Dibromo-3-Chloroprop	0.0030	0.0065	124-48-1	Dibromochloromethane	0.0030	0.0083
106-93-4	1,2-Dibromoethane	0.00096	0.0024	75-71-8	Dichlorodifluoromethane	0.0030	0.067
95-50-1	1,2-Dichlorobenzene	0.0030	0.0024 J	100-41-4	Ethylbenzene	0.0015	0.012
107-06-2	1,2-Dichloroethane	0.0030	0.0082	98-82-8	Isopropylbenzene	0.0015	0.019
78-87-5	1,2-Dichloropropane	0.0030	0.022	79601-23-1	m&p-Xylenes	0.0022	0.022
541-73-1	1,3-Dichlorobenzene	0.0030	0.0024 J	79-20-9	Methyl Acetate	0.0030	0.027
106-46-7	1,4-Dichlorobenzene	0.0030	0.0017 J	108-87-2	Methylcyclohexane	0.0030	0.030
123-91-1	1,4-Dioxane	0.15	1.9	75-09-2	Methylene Chloride	0.0030	0.019
78-93-3	2-Butanone	0.0030	0.025	1634-04-4	Methyl-t-butyl ether	0.0015	0.045
591-78-6	2-Hexanone	0.0030	0.0072	95-47-6	o-Xylene	0.0015	0.014
108-10-1	4-Methyl-2-Pentanone	0.0030	0.020	100-42-5	Styrene	0.0030	0.0033
67-64-1	Acetone	0.015	0.19	127-18-4	Tetrachloroethene	0.0030	0.018
71-43-2	Benzene	0.0015	0.022	108-88-3	Toluene	0.0015	0.013
74-97-5	Bromochloromethane	0.0030	0.0094	156-60-5	trans-1,2-Dichloroethene	0.0030	0.014
75-27-4	Bromodichloromethane	0.0030	0.013	10061-02-6	trans-1,3-Dichloropropene	0.0030	0.0017 J
75-25-2	Bromoform	0.0030	0.0079	79-01-6	Trichloroethene	0.0030	0.011
74-83-9	Bromomethane	0.0030	0.021	75-69-4	Trichlorofluoromethane	0.0030	0.048
75-15-0	Carbon Disulfide	0.0030	0.017	75-01-4	Vinyl Chloride	0.0030	0.040
1330-20-7	Xylenes (Total)	0.0015	0.036				

Worksheet #: 696297 *Total Target Concentration* 3.1 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38586-008(MSD:AD
Client Id: HB-1 +QA\QC MSD
Data File: 6M169572.D
Analysis Date: 06/16/23 13:54
Date Rec/Extracted: 06/14/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 4.55g
Final Vol: NA
Dilution: 1.10
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0026	0.051	56-23-5	Carbon Tetrachloride	0.0026	0.050
79-34-5	1,1,2,2-Tetrachloroethane	0.0026	0.023	108-90-7	Chlorobenzene	0.0026	0.0039
76-13-1	1,1,2-Trichloro-1,2,2-triflu	0.0026	0.061	75-00-3	Chloroethane	0.0026	0.034
79-00-5	1,1,2-Trichloroethane	0.0026	0.013	67-66-3	Chloroform	0.0026	0.021
75-34-3	1,1-Dichloroethane	0.0026	0.032	74-87-3	Chloromethane	0.0026	0.051
75-35-4	1,1-Dichloroethene	0.0026	0.032	156-59-2	cis-1,2-Dichloroethene	0.0026	0.013
87-61-6	1,2,3-Trichlorobenzene	0.0026	0.0011J	10061-01-5	cis-1,3-Dichloropropene	0.0026	0.0033
120-82-1	1,2,4-Trichlorobenzene	0.0026	0.00095J	110-82-7	Cyclohexane	0.0026	0.051
96-12-8	1,2-Dibromo-3-Chloroprop	0.0026	0.0086	124-48-1	Dibromochloromethane	0.0026	0.0093
106-93-4	1,2-Dibromoethane	0.00086	0.0026	75-71-8	Dichlorodifluoromethane	0.0026	0.071
95-50-1	1,2-Dichlorobenzene	0.0026	0.0032	100-41-4	Ethylbenzene	0.0013	0.014
107-06-2	1,2-Dichloroethane	0.0026	0.0072	98-82-8	Isopropylbenzene	0.0013	0.026
78-87-5	1,2-Dichloropropane	0.0026	0.021	79601-23-1	m&p-Xylenes	0.0019	0.026
541-73-1	1,3-Dichlorobenzene	0.0026	0.0025J	79-20-9	Methyl Acetate	0.0026	0.021
106-46-7	1,4-Dichlorobenzene	0.0026	0.0020J	108-87-2	Methylcyclohexane	0.0026	0.043
123-91-1	1,4-Dioxane	0.13	2.0	75-09-2	Methylene Chloride	0.0026	0.018
78-93-3	2-Butanone	0.0026	0.023	1634-04-4	Methyl-t-butyl ether	0.0013	0.048
591-78-6	2-Hexanone	0.0026	0.0081	95-47-6	o-Xylene	0.0013	0.018
108-10-1	4-Methyl-2-Pentanone	0.0026	0.023	100-42-5	Styrene	0.0026	0.0039
67-64-1	Acetone	0.013	0.20	127-18-4	Tetrachloroethene	0.0026	0.022
71-43-2	Benzene	0.0013	0.020	108-88-3	Toluene	0.0013	0.013
74-97-5	Bromochloromethane	0.0026	0.0086	156-60-5	trans-1,2-Dichloroethene	0.0026	0.012
75-27-4	Bromodichloromethane	0.0026	0.012	10061-02-6	trans-1,3-Dichloropropene	0.0026	0.0016J
75-25-2	Bromoform	0.0026	0.011	79-01-6	Trichloroethene	0.0026	0.0090
74-83-9	Bromomethane	0.0026	0.021	75-69-4	Trichlorofluoromethane	0.0026	0.054
75-15-0	Carbon Disulfide	0.0026	0.020	75-01-4	Vinyl Chloride	0.0026	0.043
1330-20-7	Xylenes (Total)	0.0013	0.044				

Worksheet #: 696297

Total Target Concentration 3.3

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38586-001
Client Id: HB-1 +QA\QC
Data File: 7M129515.D
Analysis Date: 06/26/23 09:34
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.040	U	**50-32-8**	**Benzo[a]pyrene**	**0.040**	**0.26**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.040	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.040**	**0.44**
123-91-1	1,4-Dioxane	0.011	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.040**	**0.18**
58-90-2	2,3,4,6-Tetrachlorophenol	0.040	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.040**	**0.13**
95-95-4	2,4,5-Trichlorophenol	0.040	U	111-91-1	bis(2-Chloroethoxy)methan	0.040	U
88-06-2	2,4,6-Trichlorophenol	0.040	U	111-44-4	bis(2-Chloroethyl)ether	0.013	U
120-83-2	2,4-Dichlorophenol	0.013	U	108-60-1	bis(2-chloroisopropyl)ether	0.040	U
105-67-9	2,4-Dimethylphenol	0.022	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.37	U
51-28-5	2,4-Dinitrophenol	0.20	U	85-68-7	Butylbenzylphthalate	0.040	U
121-14-2	2,4-Dinitrotoluene	0.040	U	105-60-2	Caprolactam	0.040	U
606-20-2	2,6-Dinitrotoluene	0.040	U	**86-74-8**	**Carbazole**	**0.040**	**0.041**
91-58-7	2-Chloronaphthalene	0.040	U	**218-01-9**	**Chrysene**	**0.040**	**0.56**
95-57-8	2-Chlorophenol	0.040	U	**53-70-3**	**Dibenzo[a,h]anthracene**	**0.040**	**0.061**
91-57-6	**2-Methylnaphthalene**	**0.040**	**0.050**	**132-64-9**	**Dibenzofuran**	**0.010**	**0.046**
95-48-7	2-Methylphenol	0.012	U	84-66-2	Diethylphthalate	0.71	U
88-74-4	2-Nitroaniline	0.040	U	131-11-3	Dimethylphthalate	0.040	U
88-75-5	2-Nitrophenol	0.040	U	84-74-2	Di-n-butylphthalate	0.96	U
106-44-5	3&4-Methylphenol	0.013	U	117-84-0	Di-n-octylphthalate	0.040	U
91-94-1	3,3'-Dichlorobenzidine	0.040	U	**206-44-0**	**Fluoranthene**	**0.040**	**0.55**
99-09-2	3-Nitroaniline	0.040	U	86-73-7	Fluorene	0.040	U
534-52-1	4,6-Dinitro-2-methylphenol	0.20	U	118-74-1	Hexachlorobenzene	0.040	U
101-55-3	4-Bromophenyl-phenylether	0.040	U	87-68-3	Hexachlorobutadiene	0.040	U
59-50-7	4-Chloro-3-methylphenol	0.040	U	77-47-4	Hexachlorocyclopentadiene	0.13	U
106-47-8	4-Chloroaniline	0.014	U	67-72-1	Hexachloroethane	0.040	U
7005-72-3	4-Chlorophenyl-phenylether	0.040	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.040**	**0.15**
100-01-6	4-Nitroaniline	0.040	U	78-59-1	Isophorone	0.040	U
100-02-7	4-Nitrophenol	0.040	U	**91-20-3**	**Naphthalene**	**0.010**	**0.068**
83-32-9	Acenaphthene	0.040	U	98-95-3	Nitrobenzene	0.040	U
208-96-8	**Acenaphthylene**	**0.040**	**0.047**	621-64-7	N-Nitroso-di-n-propylamine	0.010	U
98-86-2	Acetophenone	0.040	U	86-30-6	n-Nitrosodiphenylamine	0.040	U
120-12-7	**Anthracene**	**0.040**	**0.069**	87-86-5	Pentachlorophenol	0.20	U
1912-24-9	Atrazine	0.040	U	**85-01-8**	**Phenanthrene**	**0.040**	**0.49**
100-52-7	Benzaldehyde	0.040	U	108-95-2	Phenol	0.040	U
56-55-3	**Benzo[a]anthracene**	**0.040**	**0.26**	**129-00-0**	**Pyrene**	**0.040**	**0.47**

Worksheet #: 696343 *Total Target Concentration* 3.9 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38586-002
Client Id: DUP
Data File: 7M129502.D
Analysis Date: 06/24/23 02:49
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 73

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.046	U	**50-32-8**	**Benzo[a]pyrene**	**0.046**	**0.33**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.046	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.046**	**0.60**
123-91-1	1,4-Dioxane	0.013	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.046**	**0.19**
58-90-2	2,3,4,6-Tetrachlorophenol	0.046	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.046**	**0.15**
95-95-4	2,4,5-Trichlorophenol	0.046	U	111-91-1	bis(2-Chloroethoxy)methan	0.046	U
88-06-2	2,4,6-Trichlorophenol	0.046	U	111-44-4	bis(2-Chloroethyl)ether	0.015	U
120-83-2	2,4-Dichlorophenol	0.015	U	108-60-1	bis(2-chloroisopropyl)ether	0.046	U
105-67-9	2,4-Dimethylphenol	0.026	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.42	U
51-28-5	2,4-Dinitrophenol	0.23	U	85-68-7	Butylbenzylphthalate	0.046	U
121-14-2	2,4-Dinitrotoluene	0.046	U	105-60-2	Caprolactam	0.046	U
606-20-2	2,6-Dinitrotoluene	0.046	U	**86-74-8**	**Carbazole**	**0.046**	**0.047**
91-58-7	2-Chloronaphthalene	0.046	U	**218-01-9**	**Chrysene**	**0.046**	**0.65**
95-57-8	2-Chlorophenol	0.046	U	**53-70-3**	**Dibenzo[a,h]anthracene**	**0.046**	**0.068**
91-57-6	**2-Methylnaphthalene**	**0.046**	**0.066**	**132-64-9**	**Dibenzofuran**	**0.012**	**0.054**
95-48-7	2-Methylphenol	0.014	U	84-66-2	Diethylphthalate	0.81	U
88-74-4	2-Nitroaniline	0.046	U	131-11-3	Dimethylphthalate	0.046	U
88-75-5	2-Nitrophenol	0.046	U	84-74-2	Di-n-butylphthalate	1.1	U
106-44-5	3&4-Methylphenol	0.015	U	117-84-0	Di-n-octylphthalate	0.046	U
91-94-1	3,3'-Dichlorobenzidine	0.046	U	**206-44-0**	**Fluoranthene**	**0.046**	**0.67**
99-09-2	3-Nitroaniline	0.046	U	86-73-7	Fluorene	0.046	U
534-52-1	4,6-Dinitro-2-methylphenol	0.23	U	118-74-1	Hexachlorobenzene	0.046	U
101-55-3	4-Bromophenyl-phenylether	0.046	U	87-68-3	Hexachlorobutadiene	0.046	U
59-50-7	4-Chloro-3-methylphenol	0.046	U	77-47-4	Hexachlorocyclopentadiene	0.15	U
106-47-8	4-Chloroaniline	0.016	U	67-72-1	Hexachloroethane	0.046	U
7005-72-3	4-Chlorophenyl-phenylether	0.046	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.046**	**0.17**
100-01-6	4-Nitroaniline	0.046	U	78-59-1	Isophorone	0.046	U
100-02-7	4-Nitrophenol	0.046	U	**91-20-3**	**Naphthalene**	**0.011**	**0.073**
83-32-9	Acenaphthene	0.046	U	98-95-3	Nitrobenzene	0.046	U
208-96-8	**Acenaphthylene**	**0.046**	**0.064**	621-64-7	N-Nitroso-di-n-propylamine	0.012	U
98-86-2	Acetophenone	0.046	U	86-30-6	n-Nitrosodiphenylamine	0.046	U
120-12-7	**Anthracene**	**0.046**	**0.082**	87-86-5	Pentachlorophenol	0.23	U
1912-24-9	Atrazine	0.046	U	**85-01-8**	**Phenanthrene**	**0.046**	**0.55**
100-52-7	Benzaldehyde	0.046	U	108-95-2	Phenol	0.046	U
56-55-3	**Benzo[a]anthracene**	**0.046**	**0.31**	**129-00-0**	**Pyrene**	**0.046**	**0.58**

Worksheet #: 696343 *Total Target Concentration* 4.7 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38586-003
Client Id: HB-2
Data File: 9M122466.D
Analysis Date: 06/23/23 17:23
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	0.040	U	**218-01-9**	**Chrysene**	**0.040**	**0.14**
83-32-9	Acenaphthene	0.040	U	53-70-3	Dibenzo[a,h]anthracene	0.040	U
208-96-8	Acenaphthylene	0.040	U	**206-44-0**	**Fluoranthene**	**0.040**	**0.18**
120-12-7	**Anthracene**	**0.040**	**0.041**	86-73-7	Fluorene	0.040	U
56-55-3	**Benzo[a]anthracene**	**0.040**	**0.14**	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.040**	**0.097**
50-32-8	**Benzo[a]pyrene**	**0.040**	**0.18**	**91-20-3**	**Naphthalene**	**0.010**	**0.021**
205-99-2	**Benzo[b]fluoranthene**	**0.040**	**0.20**	**85-01-8**	**Phenanthrene**	**0.040**	**0.14**
191-24-2	**Benzo[g,h,i]perylene**	**0.040**	**0.11**	**129-00-0**	**Pyrene**	**0.040**	**0.16**
207-08-9	**Benzo[k]fluoranthene**	**0.040**	**0.066**				

Worksheet #: 696345 *Total Target Concentration* 1.5 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38586-004
Client Id: HB-3
Data File: 7M129503.D
Analysis Date: 06/24/23 03:12
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 91

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	0.037	U	**218-01-9**	**Chrysene**	**0.037**	**0.25**
83-32-9	Acenaphthene	0.037	U	53-70-3	Dibenzo[a,h]anthracene	0.037	U
208-96-8	Acenaphthylene	0.037	U	**206-44-0**	**Fluoranthene**	**0.037**	**0.24**
120-12-7	**Anthracene**	**0.037**	**0.042**	86-73-7	Fluorene	0.037	U
56-55-3	**Benzo[a]anthracene**	**0.037**	**0.048**	193-39-5	Indeno[1,2,3-cd]pyrene	0.037	U
50-32-8	Benzo[a]pyrene	0.037	U	**91-20-3**	**Naphthalene**	**0.0092**	**0.012**
205-99-2	**Benzo[b]fluoranthene**	**0.037**	**0.12**	**85-01-8**	**Phenanthrene**	**0.037**	**0.13**
191-24-2	Benzo[g,h,i]perylene	0.037	U	**129-00-0**	**Pyrene**	**0.037**	**0.042**
207-08-9	Benzo[k]fluoranthene	0.037	U				

Worksheet #: 696345

Total Target Concentration 0.88

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38586-005
Client Id: OutbuildingSump
Data File: 10M97641.D
Analysis Date: 06/20/23 16:42
Date Rec/Extracted: 06/14/23-06/19/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U
207-08-9	Benzo[k]fluoranthene	2.0	U				

Worksheet #: 696345

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38586-006
Client Id: TW-1
Data File: 10M97642.D
Analysis Date: 06/20/23 17:05
Date Rec/Extracted: 06/14/23-06/19/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	**206-44-0**	**Fluoranthene**	**2.0**	**2.3**
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	**Benzo[b]fluoranthene**	**2.0**	**2.0**	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	**129-00-0**	**Pyrene**	**2.0**	**2.3**
207-08-9	Benzo[k]fluoranthene	2.0	U				

Worksheet #: 696345

Total Target Concentration 6.6

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used.
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38586-007(MS:AD38
Client Id: HB-1 +QA\QC MS
Data File: 7M129516.D
Analysis Date: 06/26/23 09:57
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 82

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.041	0.75	50-32-8	Benzo[a]pyrene	0.041	1.1
95-94-3	1,2,4,5-Tetrachlorobenzen	0.041	0.82	205-99-2	Benzo[b]fluoranthene	0.041	1.3
123-91-1	1,4-Dioxane	0.012	0.24	191-24-2	Benzo[g,h,i]perylene	0.041	0.87
58-90-2	2,3,4,6-Tetrachlorophenol	0.041	1.4	207-08-9	Benzo[k]fluoranthene	0.041	1.0
95-95-4	2,4,5-Trichlorophenol	0.041	1.6	111-91-1	bis(2-Chloroethoxy)metha	0.041	0.78
88-06-2	2,4,6-Trichlorophenol	0.041	1.6	111-44-4	bis(2-Chloroethyl)ether	0.013	0.77
120-83-2	2,4-Dichlorophenol	0.013	1.6	108-60-1	bis(2-chloroisopropyl)ethe	0.041	0.51
105-67-9	2,4-Dimethylphenol	0.023	1.4	117-81-7	bis(2-Ethylhexyl)phthalate	0.37	0.99
51-28-5	2,4-Dinitrophenol	0.20	0.44	85-68-7	Butylbenzylphthalate	0.041	0.93
121-14-2	2,4-Dinitrotoluene	0.041	0.85	105-60-2	Caprolactam	0.041	0.74
606-20-2	2,6-Dinitrotoluene	0.041	0.87	86-74-8	Carbazole	0.041	0.89
91-58-7	2-Chloronaphthalene	0.041	0.86	218-01-9	Chrysene	0.041	1.3
95-57-8	2-Chlorophenol	0.041	1.6	53-70-3	Dibenzo[a,h]anthracene	0.041	0.84
91-57-6	2-Methylnaphthalene	0.041	0.88	132-64-9	Dibenzofuran	0.011	0.92
95-48-7	2-Methylphenol	0.013	1.4	84-66-2	Diethylphthalate	0.72	0.87
88-74-4	2-Nitroaniline	0.041	0.77	131-11-3	Dimethylphthalate	0.041	0.86
88-75-5	2-Nitrophenol	0.041	1.5	84-74-2	Di-n-butylphthalate	0.97	0.92 J
106-44-5	3&4-Methylphenol	0.013	1.5	117-84-0	Di-n-octylphthalate	0.041	0.93
91-94-1	3,3'-Dichlorobenzidine	0.041	0.046	206-44-0	Fluoranthene	0.041	1.3
99-09-2	3-Nitroaniline	0.041	0.60	86-73-7	Fluorene	0.041	0.86
534-52-1	4,6-Dinitro-2-methylpheno	0.20	0.63	118-74-1	Hexachlorobenzene	0.041	0.77
101-55-3	4-Bromophenyl-phenyleth	0.041	0.82	87-68-3	Hexachlorobutadiene	0.041	0.78
59-50-7	4-Chloro-3-methylphenol	0.041	1.6	77-47-4	Hexachlorocyclopentadie	0.14	0.041 J
106-47-8	4-Chloroaniline	0.014	0.40	67-72-1	Hexachloroethane	0.041	0.70
7005-72-3	4-Chlorophenyl-phenyleth	0.041	0.82	193-39-5	Indeno[1,2,3-cd]pyrene	0.041	0.93
100-01-6	4-Nitroaniline	0.041	0.56	78-59-1	Isophorone	0.041	0.69
100-02-7	4-Nitrophenol	0.041	1.6	91-20-3	Naphthalene	0.010	0.80
83-32-9	Acenaphthene	0.041	0.87	98-95-3	Nitrobenzene	0.041	0.81
208-96-8	Acenaphthylene	0.041	0.93	621-64-7	N-Nitroso-di-n-propylamin	0.010	0.73
98-86-2	Acetophenone	0.041	0.77	86-30-6	n-Nitrosodiphenylamine	0.041	0.75
120-12-7	Anthracene	0.041	0.88	87-86-5	Pentachlorophenol	0.20	1.3
1912-24-9	Atrazine	0.041	0.73	85-01-8	Phenanthrene	0.041	1.2
100-52-7	Benzaldehyde	0.041	0.53	108-95-2	Phenol	0.041	1.5
56-55-3	Benzo[a]anthracene	0.041	1.1	129-00-0	Pyrene	0.041	1.3

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38586-008(MSD:AD
Client Id: HB-1 +QA\QC MSD
Data File: 7M129489.D
Analysis Date: 06/23/23 21:45
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.040	0.74	50-32-8	Benzo[a]pyrene	0.040	1.2
95-94-3	1,2,4,5-Tetrachlorobenzen	0.040	0.79	205-99-2	Benzo[b]fluoranthene	0.040	1.4
123-91-1	1,4-Dioxane	0.011	0.28	191-24-2	Benzo[g,h,i]perylene	0.040	0.83
58-90-2	2,3,4,6-Tetrachlorophenol	0.040	1.5	207-08-9	Benzo[k]fluoranthene	0.040	1.1
95-95-4	2,4,5-Trichlorophenol	0.040	1.6	111-91-1	bis(2-Chloroethoxy)metha	0.040	0.79
88-06-2	2,4,6-Trichlorophenol	0.040	1.7	111-44-4	bis(2-Chloroethyl)ether	0.013	0.71
120-83-2	2,4-Dichlorophenol	0.013	1.6	108-60-1	bis(2-chloroisopropyl)ethe	0.040	0.50
105-67-9	2,4-Dimethylphenol	0.022	1.5	117-81-7	bis(2-Ethylhexyl)phthalate	0.37	0.91
51-28-5	2,4-Dinitrophenol	0.20	0.14 J	85-68-7	Butylbenzylphthalate	0.040	0.89
121-14-2	2,4-Dinitrotoluene	0.040	0.74	105-60-2	Caprolactam	0.040	0.71
606-20-2	2,6-Dinitrotoluene	0.040	0.77	86-74-8	Carbazole	0.040	0.86
91-58-7	2-Chloronaphthalene	0.040	0.83	218-01-9	Chrysene	0.040	1.4
95-57-8	2-Chlorophenol	0.040	1.5	53-70-3	Dibenzo[a,h]anthracene	0.040	0.78
91-57-6	2-Methylnaphthalene	0.040	0.92	132-64-9	Dibenzofuran	0.010	0.93
95-48-7	2-Methylphenol	0.012	1.4	84-66-2	Diethylphthalate	0.71	0.85
88-74-4	2-Nitroaniline	0.040	0.73	131-11-3	Dimethylphthalate	0.040	0.84
88-75-5	2-Nitrophenol	0.040	1.3	84-74-2	Di-n-butylphthalate	0.96	0.91 J
106-44-5	3&4-Methylphenol	0.013	1.5	117-84-0	Di-n-octylphthalate	0.040	0.91
91-94-1	3,3'-Dichlorobenzidine	0.040	0.087	206-44-0	Fluoranthene	0.040	1.5
99-09-2	3-Nitroaniline	0.040	0.64	86-73-7	Fluorene	0.040	0.86
534-52-1	4,6-Dinitro-2-methylpheno	0.20	0.21	118-74-1	Hexachlorobenzene	0.040	0.81
101-55-3	4-Bromophenyl-phenyleth	0.040	0.85	87-68-3	Hexachlorobutadiene	0.040	0.84
59-50-7	4-Chloro-3-methylphenol	0.040	1.6	77-47-4	Hexachlorocyclopentadie	0.13	0.035 J
106-47-8	4-Chloroaniline	0.014	0.45	67-72-1	Hexachloroethane	0.040	0.63
7005-72-3	4-Chlorophenyl-phenyleth	0.040	0.82	193-39-5	Indeno[1,2,3-cd]pyrene	0.040	0.90
100-01-6	4-Nitroaniline	0.040	0.54	78-59-1	Isophorone	0.040	0.69
100-02-7	4-Nitrophenol	0.040	1.5	91-20-3	Naphthalene	0.010	0.84
83-32-9	Acenaphthene	0.040	0.85	98-95-3	Nitrobenzene	0.040	0.81
208-96-8	Acenaphthylene	0.040	0.97	621-64-7	N-Nitroso-di-n-propylamin	0.010	0.72
98-86-2	Acetophenone	0.040	0.72	86-30-6	n-Nitrosodiphenylamine	0.040	0.74
120-12-7	Anthracene	0.040	0.93	87-86-5	Pentachlorophenol	0.20	1.4
1912-24-9	Atrazine	0.040	0.72	85-01-8	Phenanthrene	0.040	1.5
100-52-7	Benzaldehyde	0.040	0.46	108-95-2	Phenol	0.040	1.4
56-55-3	Benzo[a]anthracene	0.040	1.2	129-00-0	Pyrene	0.040	1.5

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD38586-001
Client Id: HB-1 +QA\QC
Data File: 2G178089.D
Analysis Date: 06/25/23 22:22
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.030	U	11097-69-1	Aroclor-1254	0.030	U
11104-28-2	Aroclor-1221	0.030	U	11096-82-5	Aroclor-1260	0.030	U
11141-16-5	Aroclor-1232	0.030	U	37324-23-5	Aroclor-1262	0.030	U
53469-21-9	Aroclor-1242	0.030	U	11100-14-4	Aroclor-1268	0.030	U
12672-29-6	Aroclor-1248	0.030	U	1336-36-3	Aroclor (Total)	0.030	U

Worksheet #: 696318

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD38586-002
Client Id: DUP
Data File: 2G178088.D
Analysis Date: 06/25/23 22:11
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 73

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.034	U	11097-69-1	Aroclor-1254	0.034	U
11104-28-2	Aroclor-1221	0.034	U	11096-82-5	Aroclor-1260	0.034	U
11141-16-5	Aroclor-1232	0.034	U	37324-23-5	Aroclor-1262	0.034	U
53469-21-9	Aroclor-1242	0.034	U	11100-14-4	Aroclor-1268	0.034	U
12672-29-6	Aroclor-1248	0.034	U	1336-36-3	Aroclor (Total)	0.034	U

Worksheet #: 696318

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD38586-007(MS:AD38
Client Id: HB-1 +QA\QC MS
Data File: 2G178091.D
Analysis Date: 06/25/23 22:46
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 82

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	**Aroclor-1016**	**0.030**	**0.74**	11097-69-1	Aroclor-1254	0.030	U
11104-28-2	Aroclor-1221	0.030	U	**11096-82-5**	**Aroclor-1260**	**0.030**	**0.68**
11141-16-5	Aroclor-1232	0.030	U	37324-23-5	Aroclor-1262	0.030	U
53469-21-9	Aroclor-1242	0.030	U	11100-14-4	Aroclor-1268	0.030	U
12672-29-6	Aroclor-1248	0.030	U	**1336-36-3**	**Aroclor (Total)**	**0.030**	**1.4**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD38586-008(MSD:AD
Client Id: HB-1 +QA\QC MSD
Data File: 2G178090.D
Analysis Date: 06/25/23 22:34
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	**Aroclor-1016**	**0.030**	**0.65**	11097-69-1	Aroclor-1254	0.030	U
11104-28-2	Aroclor-1221	0.030	U	**11096-82-5**	**Aroclor-1260**	**0.030**	**0.63**
11141-16-5	Aroclor-1232	0.030	U	37324-23-5	Aroclor-1262	0.030	U
53469-21-9	Aroclor-1242	0.030	U	11100-14-4	Aroclor-1268	0.030	U
12672-29-6	Aroclor-1248	0.030	U	**1336-36-3**	**Aroclor (Total)**	**0.030**	**1.3**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD38586-001
Client Id: HB-1 +QA\QC
Data File: 6G177651.D
Analysis Date: 06/26/23 06:19
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
5103-71-9	a-chlordane	0.0060	U	53494-70-5	Endrin Ketone	0.0060	U
309-00-2	Aldrin	0.0060	U	58-89-9	gamma-BHC	0.0012	U
319-84-6	alpha-BHC	0.0012	U	76-44-8	Heptachlor	0.0060	U
319-85-7	beta-BHC	0.0012	U	1024-57-3	Heptachlor Epoxide	0.0060	U
319-86-8	delta-BHC	0.0060	U	72-43-5	Methoxychlor	0.0060	U
60-57-1	**Dieldrin**	**0.0012**	**0.0029 d**	**72-54-8**	**p,p'-DDD**	**0.0030**	**0.0045 d**
959-98-8	Endosulfan I	0.0060	U	72-55-9	p,p'-DDE	0.0030	U
33213-65-9	Endosulfan II	0.0060	U	**50-29-3**	**p,p'-DDT**	**0.0030**	**0.026**
1031-07-8	Endosulfan Sulfate	0.0060	U	8001-35-2	Toxaphene	0.030	U
72-20-8	Endrin	0.0060	U	5103-74-2	y-chlordane	0.0060	U
7421-93-4	Endrin Aldehyde	0.0060	U	57-74-9	Chlordane (Total)	0.0060	U

Worksheet #: 696335

Total Target Concentration 0.033

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD38586-002
Client Id: DUP
Data File: 6G177650.D
Analysis Date: 06/26/23 06:08
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 73

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
5103-71-9	a-chlordane	0.0068	U	53494-70-5	Endrin Ketone	0.0068	U
309-00-2	Aldrin	0.0068	U	58-89-9	gamma-BHC	0.0014	U
319-84-6	alpha-BHC	0.0014	U	76-44-8	Heptachlor	0.0068	U
319-85-7	beta-BHC	0.0014	U	1024-57-3	Heptachlor Epoxide	0.0068	U
319-86-8	delta-BHC	0.0068	U	72-43-5	Methoxychlor	0.0068	U
60-57-1	Dieldrin	0.0014	U	72-54-8	p,p'-DDD	0.0034	U
959-98-8	Endosulfan I	0.0068	U	72-55-9	p,p'-DDE	0.0034	U
33213-65-9	Endosulfan II	0.0068	U	50-29-3	p,p'-DDT	0.0034	U
1031-07-8	Endosulfan Sulfate	0.0068	U	8001-35-2	Toxaphene	0.034	U
72-20-8	Endrin	0.0068	U	5103-74-2	y-chlordane	0.0068	U
7421-93-4	Endrin Aldehyde	0.0068	U	57-74-9	Chlordane (Total)	0.0068	U

Worksheet #: 696335

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD38586-007(MS:AD38
Client Id: HB-1 +QA\QC MS
Data File: 3G149078.D
Analysis Date: 06/26/23 04:59
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 82

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
5103-71-9	(^)a-chlordane	0.0061	0.059 R	53494-70-5	Endrin Ketone	0.0061	0.069
309-00-2	(^)Aldrin	0.0061	0.056	58-89-9	(^)gamma-BHC	0.0012	0.051
319-84-6	(^)alpha-BHC	0.0012	0.052	76-44-8	(^)Heptachlor	0.0061	0.058
319-85-7	(^)beta-BHC	0.0012	0.058	1024-57-3	Heptachlor Epoxide	0.0061	0.055
319-86-8	(^)delta-BHC	0.0061	0.052	72-43-5	(^)Methoxychlor	0.0061	0.056
60-57-1	(^)Dieldrin	0.0012	0.086	72-54-8	(^)p,p'-DDD	0.0030	0.053
959-98-8	(^)Endosulfan I	0.0061	0.057	72-55-9	(^)p,p'-DDE	0.0030	0.059
33213-65-9	(^)Endosulfan II	0.0061	0.055	50-29-3	p,p'-DDT	0.0030	0.079
1031-07-8	(^)Endosulfan Sulfate	0.0061	0.047	8001-35-2	Toxaphene	0.030	U
72-20-8	(^)Endrin	0.0061	0.086	5103-74-2	(^)y-chlordane	0.0061	0.053
7421-93-4	(^)Endrin Aldehyde	0.0061	0.052 d	57-74-9	Chlordane (Total)	0.0061	0.11

Worksheet #: 696338

Total Target Concentration 0.2

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD38586-008(MSD:AD
Client Id: HB-1 +QA\QC MSD
Data File: 3G149079.D
Analysis Date: 06/26/23 05:10
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
5103-71-9	a-chlordane	0.0060	0.068 R	53494-70-5	(^)Endrin Ketone	0.0060	0.081
309-00-2	(^)Aldrin	0.0060	0.064	58-89-9	(^)gamma-BHC	0.0012	0.057
319-84-6	(^)alpha-BHC	0.0012	0.058	76-44-8	(^)Heptachlor	0.0060	0.066
319-85-7	(^)beta-BHC	0.0012	0.067	1024-57-3	Heptachlor Epoxide	0.0060	0.062
319-86-8	(^)delta-BHC	0.0060	0.058	72-43-5	(^)Methoxychlor	0.0060	0.070
60-57-1	(^)Dieldrin	0.0012	0.10	72-54-8	p,p'-DDD	0.0030	0.061
959-98-8	(^)Endosulfan I	0.0060	0.066	72-55-9	(^)p,p'-DDE	0.0030	0.068
33213-65-9	(^)Endosulfan II	0.0060	0.063	50-29-3	(^)p,p'-DDT	0.0030	0.12
1031-07-8	Endosulfan Sulfate	0.0060	0.055	8001-35-2	Toxaphene	0.030	U
72-20-8	(^)Endrin	0.0060	0.10	5103-74-2	(^)y-chlordane	0.0060	0.061
7421-93-4	(^)Endrin Aldehyde	0.0060	0.067 d	57-74-9	Chlordane (Total)	0.0060	0.13

Worksheet #: 696338

Total Target Concentration 0.25

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS HERBICIDE REPORT

Sample Number: AD38586-001
Client Id: HB-1 +QA\QC
Data File: 12G42009.D
Analysis Date: 06/28/23 02:40
Date Rec/Extracted: 06/14/23-06/26/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8151A
Matrix: Soil
Initial Vol: 50g
Final Vol: 10ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
93-76-5	2,4,5-T	0.011	U	1918-00-9	Dicamba	0.011	U
94-75-7	2,4-D	0.011	U	93-72-1	Silvex	0.011	U

Worksheet #: 696586

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS HERBICIDE REPORT

Sample Number: AD38586-002
Client Id: DUP
Data File: 12G42010.D
Analysis Date: 06/28/23 03:00
Date Rec/Extracted: 06/14/23-06/26/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8151A
Matrix: Soil
Initial Vol: 50g
Final Vol: 10ml
Dilution: 1
Solids: 73

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
93-76-5	2,4,5-T	0.013	U	1918-00-9	Dicamba	0.013	U
94-75-7	2,4-D	0.013	U	93-72-1	Silvex	0.013	U

Worksheet #: 696586

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS HERBICIDE REPORT

Sample Number: AD38586-007(MS:AD38
Client Id: HB-1 +QA\QC MS
Data File: 12G41994.D
Analysis Date: 06/27/23 13:51
Date Rec/Extracted: 06/14/23-06/26/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8151A
Matrix: Soil
Initial Vol: 50g
Final Vol: 10ml
Dilution: 1
Solids: 82

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
93-76-5	(^)2,4,5-T	0.012	0.023 R	1918-00-9	(^)Dicamba	0.011	0.023 R
94-75-7	2,4-D	0.011	0.022 R	93-72-1	(^)Silvex	0.012	0.025 R

PR 06128123

Worksheet #: 696586

Total Target Concentration 0.022

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS HERBICIDE REPORT

Sample Number: AD38586-008(MS:AD38
Client Id: HB-1 +QA\QC MSD
Data File: 12G41995.D
Analysis Date: 06/27/23 14:11
Date Rec/Extracted: 06/14/23-06/26/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8151A
Matrix: Soil
Initial Vol: 50g
Final Vol: 10ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
93-76-5	(^)2,4,5-T	0.011	0.024 R	1918-00-9	(^)Dicamba	0.011	0.025 R
94-75-7	2,4-D	0.011	0.025 R	93-72-1	(^)Silvex	0.011	0.028 R

R 06/23/23

Worksheet #: 696586

Total Target Concentration 0.025

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38586-001	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	HB-1 +QA\QC	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/15/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	120	1200	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7440-36-0	Antimony	0.96	9.3	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7440-38-2	Arsenic	0.24	69	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7440-39-3	Barium	1.2	150	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7440-41-7	Beryllium	0.24	0.35	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7440-43-9	Cadmium	0.48	ND	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7440-70-2	Calcium	120	3500	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7440-47-3	Chromium	0.48	8.8	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7440-48-4	Cobalt	0.48	3.9	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7440-50-8	Copper	2.4	73	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7439-89-6	Iron	120	18000	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7439-92-1	Lead	0.48	350	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7439-95-4	Magnesium	120	380	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7439-96-5	Manganese	1.4	71	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7440-02-0	Nickel	0.72	8.2	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7440-09-7	Potassium	120	820	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7782-49-2	Selenium	2.4	14	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7440-22-4	Silver	0.24	0.27	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7440-23-5	Sodium	120	280	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7440-28-0	Thallium	0.48	1.6	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7440-62-2	Vanadium	0.24	11	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7440-66-6	Zinc	4.8	88	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38586-001	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	HB-1 +QA\QC	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/15/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.10	0.23	1	0.15	25	06/20/23	107880	H29868S	13	CV	HGCV3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38586-002	% Solid:	73	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	DUP	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/15/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	140	2200	1	0.5	100	06/19/23	1078801923ANEW		48	MS	MS3_7700SWA
7440-36-0	Antimony	1.1	8.4	1	0.5	100	06/19/23	1078801923ANEW		48	MS	MS3_7700SWA
7440-38-2	Arsenic	0.27	48	1	0.5	100	06/19/23	1078801923ANEW		48	MS	MS3_7700SWA
7440-39-3	Barium	1.4	110	1	0.5	100	06/19/23	1078801923ANEW		48	MS	MS3_7700SWA
7440-41-7	Beryllium	0.27	0.45	1	0.5	100	06/19/23	1078801923ANEW		48	MS	MS3_7700SWA
7440-43-9	Cadmium	0.55	ND	1	0.5	100	06/19/23	1078801923ANEW		48	MS	MS3_7700SWA
7440-70-2	Calcium	140	12000	1	0.5	100	06/19/23	1078801923ANEW		48	MS	MS3_7700SWA
7440-47-3	Chromium	0.55	8.6	1	0.5	100	06/19/23	1078801923ANEW		48	MS	MS3_7700SWA
7440-48-4	Cobalt	0.55	7.2	1	0.5	100	06/19/23	1078801923ANEW		48	MS	MS3_7700SWA
7440-50-8	Copper	2.7	110	1	0.5	100	06/19/23	1078801923ANEW		48	MS	MS3_7700SWA
7439-89-6	Iron	140	16000	1	0.5	100	06/19/23	1078801923ANEW		48	MS	MS3_7700SWA
7439-92-1	Lead	0.55	360	1	0.5	100	06/19/23	1078801923ANEW		48	MS	MS3_7700SWA
7439-95-4	Magnesium	140	1100	1	0.5	100	06/19/23	1078801923ANEW		48	MS	MS3_7700SWA
7439-96-5	Manganese	1.6	130	1	0.5	100	06/19/23	1078801923ANEW		48	MS	MS3_7700SWA
7440-02-0	Nickel	0.82	9.9	1	0.5	100	06/19/23	1078801923ANEW		48	MS	MS3_7700SWA
7440-09-7	Potassium	140	730	1	0.5	100	06/19/23	1078801923ANEW		48	MS	MS3_7700SWA
7782-49-2	Selenium	2.7	10	1	0.5	100	06/19/23	1078801923ANEW		48	MS	MS3_7700SWA
7440-22-4	Silver	0.27	ND	1	0.5	100	06/19/23	1078801923ANEW		48	MS	MS3_7700SWA
7440-23-5	Sodium	140	220	1	0.5	100	06/19/23	1078801923ANEW		48	MS	MS3_7700SWA
7440-28-0	Thallium	0.55	1.2	1	0.5	100	06/19/23	1078801923ANEW		48	MS	MS3_7700SWA
7440-62-2	Vanadium	0.27	11	1	0.5	100	06/19/23	1078801923ANEW		48	MS	MS3_7700SWA
7440-66-6	Zinc	5.5	120	1	0.5	100	06/19/23	1078801923ANEW		48	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38586-002	% Solid:	73	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	DUP	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/15/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.11	0.36	1	0.15	25	06/20/23	107880	H29868S	17	CV	HGCV3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38586-003	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	HB-2	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/15/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.96	35	1	0.5	100	06/19/23	1078801	923ANEW	49	MS	MS3_7700SWA
7440-38-2	Arsenic	1.2	190	5	0.5	100	06/19/23	1078801	923ANEW	59	MS	MS3_7700SWA
7440-41-7	Beryllium	0.24	ND	1	0.5	100	06/19/23	1078801	923ANEW	49	MS	MS3_7700SWA
7440-43-9	Cadmium	0.48	ND	1	0.5	100	06/19/23	1078801	923ANEW	49	MS	MS3_7700SWA
7440-47-3	Chromium	0.48	4.6	1	0.5	100	06/19/23	1078801	923ANEW	49	MS	MS3_7700SWA
7440-50-8	Copper	2.4	30	1	0.5	100	06/19/23	1078801	923ANEW	49	MS	MS3_7700SWA
7439-92-1	Lead	2.4	710	5	0.5	100	06/19/23	1078801	923ANEW	59	MS	MS3_7700SWA
7440-02-0	Nickel	0.72	5.0	1	0.5	100	06/19/23	1078801	923ANEW	49	MS	MS3_7700SWA
7782-49-2	Selenium	2.4	21	1	0.5	100	06/19/23	1078801	923ANEW	49	MS	MS3_7700SWA
7440-22-4	Silver	0.24	ND	1	0.5	100	06/19/23	1078801	923ANEW	49	MS	MS3_7700SWA
7440-28-0	Thallium	0.48	ND	1	0.5	100	06/19/23	1078801	923ANEW	49	MS	MS3_7700SWA
7440-66-6	Zinc	4.8	64	1	0.5	100	06/19/23	1078801	923ANEW	49	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38586-003	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	HB-2	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/15/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.10	0.82	1	0.15	25	06/20/23	107880	H29868S	18	CV	HGCV3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38586-004	% Solid:	91	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	HB-3	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/15/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.88	1.3	1	0.5	100	06/19/23	1078801	923ANEW	50	MS	MS3_7700SWA
7440-38-2	Arsenic	1.1	210	5	0.5	100	06/19/23	1078801	923ANEW	60	MS	MS3_7700SWA
7440-41-7	Beryllium	0.22	0.61	1	0.5	100	06/19/23	1078801	923ANEW	50	MS	MS3_7700SWA
7440-43-9	Cadmium	0.44	ND	1	0.5	100	06/19/23	1078801	923ANEW	50	MS	MS3_7700SWA
7440-47-3	Chromium	0.44	11	1	0.5	100	06/19/23	1078801	923ANEW	50	MS	MS3_7700SWA
7440-50-8	Copper	2.2	85	1	0.5	100	06/19/23	1078801	923ANEW	50	MS	MS3_7700SWA
7439-92-1	Lead	0.44	87	1	0.5	100	06/19/23	1078801	923ANEW	50	MS	MS3_7700SWA
7440-02-0	Nickel	0.66	15	1	0.5	100	06/19/23	1078801	923ANEW	50	MS	MS3_7700SWA
7782-49-2	Selenium	2.2	38	1	0.5	100	06/19/23	1078801	923ANEW	50	MS	MS3_7700SWA
7440-22-4	Silver	0.22	ND	1	0.5	100	06/19/23	1078801	923ANEW	50	MS	MS3_7700SWA
7440-28-0	Thallium	0.44	0.97	1	0.5	100	06/19/23	1078801	923ANEW	50	MS	MS3_7700SWA
7440-66-6	Zinc	4.4	53	1	0.5	100	06/19/23	1078801	923ANEW	50	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38586-004	% Solid:	91	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	HB-3	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/15/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.092	1.4	1	0.15	25	06/20/23	107880	H29868S	19	CV	HGCV3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38586-007	% Solid:	82	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	HB-1 +QA\QC MS	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/15/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	120	2700	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7440-36-0	Antimony	0.98	33	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7440-38-2	Arsenic	0.24	100	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7440-39-3	Barium	1.2	180	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7440-41-7	Beryllium	0.24	47	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7440-43-9	Cadmium	0.49	51	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7440-70-2	Calcium	120	11000	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7440-47-3	Chromium	0.49	63	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7440-48-4	Cobalt	0.49	57	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7440-50-8	Copper	2.4	140	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7439-89-6	Iron	120	18000	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7439-92-1	Lead	0.49	340	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7439-95-4	Magnesium	120	5800	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7439-96-5	Manganese	1.5	140	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7440-02-0	Nickel	0.73	60	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7440-09-7	Potassium	120	5600	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7782-49-2	Selenium	2.4	57	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7440-22-4	Silver	0.24	9.7	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7440-23-5	Sodium	120	5300	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7440-28-0	Thallium	0.49	39	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7440-62-2	Vanadium	0.24	63	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7440-66-6	Zinc	4.9	150	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38586-007	% Solid:	82	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	HB-1 +QA\QC MS	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/15/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.10	2.2	1	0.15	25	06/20/23	107880	H29868S	15	CV	HGCV3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38586-008	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	HB-1 +QA\QC MSD	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/15/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	120	1800	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7440-36-0	Antimony	0.96	40	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7440-38-2	Arsenic	0.24	110	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7440-39-3	Barium	1.2	170	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7440-41-7	Beryllium	0.24	46	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7440-43-9	Cadmium	0.48	44	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7440-70-2	Calcium	120	8800	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7440-47-3	Chromium	0.48	56	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7440-48-4	Cobalt	0.48	51	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7440-50-8	Copper	2.4	320	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7439-89-6	Iron	120	15000	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7439-92-1	Lead	0.48	310	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7439-95-4	Magnesium	120	5000	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7439-96-5	Manganese	1.4	110	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7440-02-0	Nickel	0.72	54	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7440-09-7	Potassium	120	5300	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7782-49-2	Selenium	2.4	57	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7440-22-4	Silver	0.24	9.1	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7440-23-5	Sodium	120	4900	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7440-28-0	Thallium	0.48	36	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7440-62-2	Vanadium	0.24	58	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7440-66-6	Zinc	4.8	100	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38586-008	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	HB-1 +QA\QC MSD	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/15/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.10	2.5	1	0.15	25	06/20/23	107880	H29868S	16	CV	HGCV3A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Hampton-Clarke Wet Chem Form1 Analysis Summary
% Solids

TestGroupName: % Solids SM2540G **Project #: 3061429**

TestGroup: %SOLIDS

Lab#	Client SampleID	Matrix	Dilution:	Result	Units:	RL	Prep Date	Analysis Date	Received Date	Collect Date
AD38586-001	HB-1 +QA\QC	Soil/Terracore	1	83	Percent			06/16/23	06/14/23	06/13/23
AD38586-002	DUP	Soil/Terracore	1	73	Percent			06/16/23	06/14/23	06/13/23
AD38586-003	HB-2	Soil	1	83	Percent			06/16/23	06/14/23	06/13/23
AD38586-004	HB-3	Soil	1	91	Percent			06/16/23	06/14/23	06/13/23
AD38586-007	HB-1 +QA\QC MS	Soil/Terracore	1	82	Percent			06/16/23	06/14/23	06/13/23
AD38586-008	HB-1 +QA\QC MS	Soil/Terracore	1	83	Percent			06/16/23	06/14/23	06/13/23

Chain of Custody Forms

3061429 0069

Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 US Highway 46 and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056
NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

Hampton-Clarke WBE/DBE/SBE 800-426-9992
A Women-Owned, Disadvantaged, Small Business Enterprise

CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 3061429

Page 1 of 1

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%) *	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%) *	Reduced:	EnviroData
3 Business Days (50%) *	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%) *	[ ] PA [ ] Other	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	NYDEC
8 Business Days (Stand.)	NY ASP CatA	[ ] Region 2 or 5
Other:		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: HRP
Address: 1 Fairchild Sq #110 Clifton Park, NY 12065
1b) Email/Cell/Fax/Ph:
1c) Send Invoice to: mark.wright@hrpassociates
1d) Send Report to: mark.wright@hrpassociates

Project Information

2a) Project: 510-514 W. Liberty St.
2b) Project Mgr: Mark Wright
2c) Project Location (City/State): Rome, NY
2d) Quote/PO # (If Applicable):

FOR LAB USE ONLY ↓

Batch # AD28586

===> Check If Contingent ===>

Matrix Codes
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis (specify methods & parameter lists)

<=== Check If Contingent <===

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	TCL VOC 8260	TCL SVOC 8270	TAL Metals 6010	TCL PCB 8082	TCL Pest. 8081	TCL Herb 8151	PAH 8270	PP metals 6010	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other: methanol	9) Comments
001/007/008	HB-1 +QA/QC	S	6/13/23	1144		G	X	X	X	X	X	X										1	
002	DUP	S	6/13/23	1220		G	X	X	X	X	X	X										1	
003	HB-2	S	6/13/23	1141		G							X	X								1	
004	HB-3	S	6/13/23	1155		G							X	X								1	
005	Outbuilding Sump	GW	6/13/23	1300		G	X						X						3				100mL X 10 amber PAHs
006	TW-10	GW	6/13/23	1330		G	X						X						3				100mL X 10 amber PAHs

10) Relinquished by:	Accepted by:	Date	Time
Cassy George HRP 6/13/23			
FED EX		6/14/23	11:00

11) Sampler (print name): Cassy George Date: 6/13/23

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Cooler Temperature: 3.0

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

CONDITION UPON RECEIPT

Batch Number AD38586 Entered By: ricardo

Date Entered 6/14/2023 4:45:00 PM

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	Yes	Are the COC seals intact?
4	T-461	<--- Thermometer ID. Please specify the Temperature inside the container (in degC). 3.0
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	Yes	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	Yes	Do the contents match the COC? If no, specify
10	Yes	Is there enough sample sent for the analyses listed on the COC? If no, specify:
11	Yes	Are samples preserved correctly?
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	Yes	Other comments ...Specify (TB date, sample matrix, any missing info, etc.) CLIENT SENT THEIR OWN PAH AND VO GW SAMPLES
14	NA	Corrective actions (Specify item number and corrective action taken).
15	NA	Were any samples for ortho-phosphate or dissolved ferrous iron field filtered?

PRESERVATION DOCUMENT

Batch Number AD38586 Entered By: maxwell

Date Entered 6/15/2023 11:49:00 AM

Lab#:	Container Size	Container/Vial Check	Parameter	Preservative	Preservative Lot#	PH	pH Lot#
AD38586-001	NA	NA	NA	NA	NA	NA	NA
AD38586-002	NA	NA	NA	NA	NA	NA	NA
AD38586-003	NA	NA	NA	NA	NA	NA	NA
AD38586-004	NA	NA	NA	NA	NA	NA	NA
AD38586-005	40ML	G	VO	HCL	NA	1.0	HC208072
AD38586-006	40ML	G	VO	HCL	NA	1.0	HC208072
AD38586-007	NA	NA	NA	NA	NA	NA	NA
AD38586-008	NA	NA	NA	NA	NA	NA	NA

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD38586-001	06/14/23 11:00	RICAR	0	M	Received
AD38586-001	06/14/23 16:45	RICAR	0	M	Login
AD38586-001	06/14/23 17:43	R31	1	A	NONE
AD38586-001	06/14/23 22:27	WP	1	A	VOA
AD38586-001	06/14/23 22:31	R31	1	A	NONE
AD38586-001	06/14/23 17:43	F18	2	A	NONE
AD38586-001	06/14/23 17:43	F18	3	A	NONE
AD38586-001	06/15/23 22:56	WP	3	A	VOA
AD38586-001	06/15/23 12:18	R12	4	A	NONE
AD38586-001	06/15/23 22:52	PA	4	A	mx
AD38586-001	06/15/23 22:52	R12	4	A	NONE
AD38586-001	06/16/23 08:39	KW	4	A	SOLIDS
AD38586-001	06/18/23 09:30	ANS	4	M	TDSI
AD38586-001	06/23/23 08:36	MSL	4	A	p/p
AD38586-001	06/23/23 08:36	R12	4	A	NONE
AD38586-001	06/26/23 11:26	SHER	4	A	GP
AD38586-001	06/26/23 11:27	R12	4	A	NONE
AD38586-001	06/15/23 12:18	R12	5	A	NONE
AD38586-001	06/23/23 09:35	AJ/LT	5	A	BNA
AD38586-001	06/23/23 10:27	R12	5	A	NONE
AD38586-002	06/14/23 11:00	RICAR	0	M	Received
AD38586-002	06/14/23 16:45	RICAR	0	M	Login
AD38586-002	06/14/23 17:43	R31	1	A	NONE
AD38586-002	06/14/23 22:27	WP	1	A	VOA
AD38586-002	06/14/23 22:31	R31	1	A	NONE
AD38586-002	06/14/23 17:43	F18	2	A	NONE
AD38586-002	06/14/23 17:43	F18	3	A	NONE
AD38586-002	06/15/23 11:25	R31	4	A	NONE
AD38586-002	06/16/23 01:11	WP	4	A	VOA
AD38586-002	06/16/23 01:14	R31	4	A	NONE
AD38586-002	06/15/23 11:25	F18	5	A	NONE
AD38586-002	06/15/23 11:25	F18	6	A	NONE
AD38586-002	06/15/23 22:56	WP	6	A	VOA
AD38586-002	06/15/23 12:20	R12	7	A	NONE
AD38586-002	06/23/23 09:35	AJ/LT	7	A	BNA
AD38586-002	06/23/23 10:27	R12	7	A	NONE
AD38586-002	06/15/23 12:20	R12	8	A	NONE
AD38586-002	06/15/23 22:52	PA	8	A	mx
AD38586-002	06/15/23 22:52	R12	8	A	NONE
AD38586-002	06/16/23 08:39	KW	8	A	SOLIDS
AD38586-002	06/18/23 09:30	ANS	8	M	TDSI
AD38586-002	06/23/23 08:36	MSL	8	A	p/p
AD38586-002	06/23/23 08:36	R12	8	A	NONE
AD38586-002	06/26/23 11:26	SHER	8	A	GP
AD38586-002	06/26/23 11:27	R12	8	A	NONE
AD38586-003	06/14/23 11:00	RICAR	0	M	Received
AD38586-003	06/14/23 16:45	RICAR	0	M	Login
AD38586-003	06/14/23 17:43	R31	1	A	NONE
AD38586-003	06/14/23 22:27	WP	1	A	VOA
AD38586-003	06/14/23 22:31	R31	1	A	NONE
AD38586-003	06/14/23 17:43	F18	2	A	NONE
AD38586-003	06/14/23 17:43	F18	3	A	NONE
AD38586-003	06/15/23 22:56	WP	3	A	VOA
AD38586-003	06/15/23 12:18	R12	4	A	NONE
AD38586-003	06/15/23 12:18	R12	5	A	NONE
AD38586-003	06/15/23 22:52	PA	5	A	mx
AD38586-003	06/15/23 22:52	R12	5	A	NONE
AD38586-003	06/16/23 08:39	KW	5	A	SOLIDS
AD38586-003	06/18/23 09:30	ANS	5	M	TDSI
AD38586-003	06/23/23 09:35	AJ/LT	5	A	BNA
AD38586-003	06/23/23 10:27	R12	5	A	NONE
AD38586-004	06/14/23 11:00	RICAR	0	M	Received
AD38586-004	06/14/23 16:45	RICAR	0	M	Login
AD38586-004	06/14/23 17:43	R31	1	A	NONE
AD38586-004	06/14/23 22:27	WP	1	A	VOA
AD38586-004	06/14/23 22:31	R31	1	A	NONE
AD38586-004	06/14/23 17:43	F18	2	A	NONE
AD38586-004	06/14/23 17:43	F18	3	A	NONE
AD38586-004	06/15/23 22:56	WP	3	A	VOA
AD38586-004	06/15/23 12:18	R12	4	A	NONE
AD38586-004	06/15/23 12:18	R12	5	A	NONE
AD38586-004	06/15/23 22:52	PA	5	A	mx
AD38586-004	06/15/23 22:52	R12	5	A	NONE
AD38586-004	06/16/23 08:39	KW	5	A	SOLIDS
AD38586-004	06/18/23 09:30	ANS	5	M	TDSI
AD38586-004	06/23/23 09:35	AJ/LT	5	A	BNA
AD38586-004	06/23/23 10:27	R12	5	A	NONE
AD38586-005	06/14/23 11:00	RICAR	0	M	Received
AD38586-005	06/14/23 16:45	RICAR	0	M	Login
AD38586-005	06/15/23 12:18	R12	1	A	NONE
AD38586-005	06/15/23 12:18	R12	2	A	NONE
AD38586-005	06/15/23 12:18	R12	3	A	NONE
AD38586-005	06/19/23 18:06	JN	3	A	BN/BNA
AD38586-005	06/15/23 12:18	R12	4	A	NONE
AD38586-005	06/15/23 12:18	R12	5	A	NONE
AD38586-005	06/15/23 12:18	R12	6	A	NONE
AD38586-005	06/19/23 18:06	JN	6	A	BN/BNA
AD38586-005	06/15/23 12:18	R12	7	A	NONE
AD38586-005	06/15/23 12:18	R12	8	A	NONE
AD38586-005	06/19/23 18:06	JN	8	A	BN/BNA
AD38586-005	06/15/23 12:18	R12	9	A	NONE
AD38586-005	06/19/23 18:06	JN	9	A	BN/BNA
AD38586-005	06/15/23 12:18	R12	10	A	NONE
AD38586-005	06/19/23 18:06	JN	10	A	BN/BNA
AD38586-005	06/15/23 20:00	WP	13	A	VOA
AD38586-006	06/14/23 11:00	RICAR	0	M	Received
AD38586-006	06/14/23 16:45	RICAR	0	M	Login
AD38586-006	06/15/23 12:18	R12	1	A	NONE
AD38586-006	06/19/23 18:06	JN	1	A	BN/BNA
AD38586-006	06/15/23 12:18	R12	2	A	NONE
AD38586-006	06/15/23 12:18	R12	3	A	NONE
AD38586-006	06/15/23 12:18	R12	4	A	NONE
AD38586-006	06/15/23 12:18	R12	5	A	NONE
AD38586-006	06/15/23 12:18	R12	6	A	NONE
AD38586-006	06/19/23 18:06	JN	6	A	BN/BNA
AD38586-006	06/15/23 12:18	R12	7	A	NONE
AD38586-006	06/19/23 18:06	JN	7	A	BN/BNA
AD38586-006	06/15/23 12:18	R12	8	A	NONE
AD38586-006	06/15/23 12:18	R12	9	A	NONE
AD38586-006	06/19/23 18:06	JN	9	A	BN/BNA
AD38586-006	06/15/23 12:18	R12	10	A	NONE
AD38586-006	06/19/23 18:06	JN	10	A	BN/BNA
AD38586-006	06/15/23 20:00	WP	13	A	VOA
AD38586-007	06/14/23 11:00	MAXW	0	M	Received
AD38586-007	06/15/23 11:04	MAXW	0	M	Login
AD38586-007	06/15/23 12:18	R12	1	A	NONE
AD38586-007	06/15/23 22:52	PA	1	A	mx
AD38586-007	06/15/23 22:52	R12	1	A	NONE
AD38586-007	06/16/23 08:39	KW	1	A	SOLIDS
AD38586-007	06/18/23 09:30	ANS	1	M	TDSI
AD38586-007	06/23/23 08:36	MSL	1	A	p/p
AD38586-007	06/23/23 08:36	R12	1	A	NONE
AD38586-007	06/26/23 11:26	SHER	1	A	GP
AD38586-007	06/26/23 11:27	R12	1	A	NONE
AD38586-007	06/15/23 12:18	R12	2	A	NONE
AD38586-007	06/23/23 09:35	AJ/LT	2	A	BNA
AD38586-007	06/23/23 10:27	R12	2	A	NONE
AD38586-007	06/14/23 17:43	R31	3	M	NONE
AD38586-007	06/14/23 17:43	F18	4	M	NONE
AD38586-007	06/14/23 17:43	F18	5	M	NONE
AD38586-007	06/15/23 22:56	WP	5	A	VOA
AD38586-008	06/14/23 11:00	MAXW	0	M	Received
AD38586-008	06/15/23 11:04	MAXW	0	M	Login
AD38586-008	06/15/23 12:18	R12	1	A	NONE
AD38586-008	06/15/23 22:52	R12	1	A	NONE
AD38586-008	06/15/23 22:52	PA	1	A	mx
AD38586-008	06/16/23 08:39	KW	1	A	SOLIDS
AD38586-008	06/18/23 09:30	ANS	1	M	TDSI
AD38586-008	06/23/23 08:36	MSL	1	A	p/p
AD38586-008	06/23/23 08:36	R12	1	A	NONE
AD38586-008	06/26/23 11:26	SHER	1	A	GP
AD38586-008	06/26/23 11:27	R12	1	A	NONE
AD38586-008	06/15/23 11:25	R31	2	A	NONE
AD38586-008	06/16/23 01:11	WP	2	A	VOA
AD38586-008	06/16/23 01:14	R31	2	A	NONE
AD38586-008	06/15/23 11:25	F18	3	A	NONE
AD38586-008	06/15/23 11:25	F18	4	A	NONE
AD38586-008	06/15/23 22:56	WP	4	A	VOA
AD38586-008	06/15/23 12:18	R12	5	A	NONE
AD38586-008	06/23/23 09:35	AJ/LT	5	A	BNA

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

GC/MS Volatile Data

GC/MS Volatile Data
QC Summary

FORM2

Surrogate Recovery

Method: EPA 8260D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
2M186042.D	DAILY BLANK	A	06/15/23 20:41	1		94	97	100	97		
6M169565.D	DAILY BLANK	S	06/16/23 11:19	1		117	104	88	96		
6M169566.D	AD38586-001	S	06/16/23 11:41	1		124	104	121	136		
6M169567.D	AD38586-002	S	06/16/23 12:03	1		124	110	112	135		
2M186049.D	AD38586-005	A	06/15/23 23:15	1		93	96	101	98		
2M186050.D	AD38586-006	A	06/15/23 23:35	1		94	96	99	98		
6M169571.D	AD38586-007(MS:AD38	S	06/16/23 13:32	1		110	94	112	129		
6M169572.D	AD38586-008(MSD:AD3	S	06/16/23 13:54	1		111	94	122	135		
2M186044.D	MBS109429	A	06/15/23 21:35	1		93	95	102	99		
2M186046.D	AD38445-001(50X)(T:M	A	06/15/23 22:15	1		93	94	101	99		
2M186047.D	AD38445-001(50X)(T:M	A	06/15/23 22:36	1		91	95	101	97		
2M186048.D	AD38445-001(50X)(T)	A	06/15/23 22:55	1		94	98	100	98		
6M169573.D	MBS110001	S	06/16/23 14:17	1		104	94	97	99		

Flags: SD=Surrogate diluted out

*=Surrogate out

Method: EPA 8260D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	48-156
S2=1.2-Dichloroethane-d4	30	56-154
S3=Toluene-d8	30	48-145
S4=Bromofluorobenzene	30	46-151

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	82-120
S2=1.2-Dichloroethane-d4	30	81-123
S3=Toluene-d8	30	75-121
S4=Bromofluorobenzene	30	77-125

Form3
Recovery Data Laboratory Limits
QC Batch:MBS109429

Data File	Sample ID:	Analysis Date
Spike or Dup: 2M186044.D	MBS109429	6/15/2023 9:35:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	16.8434	0	20	84	16	181
Dichlorodifluoromethane	1	12.4207	0	20	62	10	202
Chloromethane	1	10.5742	0	20	53	10	182
Bromomethane	1	9.5799	0	20	48	10	172
Vinyl Chloride	1	12.3252	0	20	62	26	176
Chloroethane	1	12.3533	0	20	62	28	165
Trichlorofluoromethane	1	16.1041	0	20	81	18	178
Ethyl ether	1	13.8769	0	20	69	38	155
Furan	1	13.955	0	20	70	31	160
1,1,2-Trichloro-1,2,2-trifluoroethane	1	17.095	0	20	85	32	178
Methylene Chloride	1	19.6303	0	20	98	10	225
Acrolein	1	86.2891	0	100	86	10	183
Acrylonitrile	1	18.8854	0	20	94	40	164
Iodomethane	1	12.4414	0	20	62	10	191
Acetone	1	91.904	0	100	92	10	237
Carbon Disulfide	1	20.0872	0	20	100	10	194
t-Butyl Alcohol	1	102.1344	0	100	102	21	185
n-Hexane	1	18.138	0	20	91	43	179
Di-isopropyl-ether	1	16.1527	0	20	81	47	159
1,1-Dichloroethene	1	16.8886	0	20	84	42	172
Methyl Acetate	1	14.178	0	20	71	10	192
Methyl-t-butyl ether	1	20.9778	0	20	105	43	154
1,1-Dichloroethane	1	18.1913	0	20	91	48	160
trans-1,2-Dichloroethene	1	19.5374	0	20	98	37	171
Ethyl-t-butyl ether	1	18.1331	0	20	91	53	149
cis-1,2-Dichloroethene	1	18.1146	0	20	91	45	161
Bromochloromethane	1	14.2679	0	20	71	42	170
2,2-Dichloropropane	1	21.6392	0	20	108	33	173
Ethyl acetate	1	14.8994	0	20	74	38	156
1,4-Dioxane	1	1186.585	0	1000	119	18	186
1,1-Dichloropropene	1	19.7582	0	20	99	51	157
Chloroform	1	20.1447	0	20	101	47	157
Cyclohexane	1	18.2467	0	20	91	41	175
1,2-Dichloroethane	1	19.3205	0	20	97	43	154
2-Butanone	1	15.9565	0	20	80	20	188
1,1,1-Trichloroethane	1	20.8994	0	20	104	49	155
Carbon Tetrachloride	1	20.6813	0	20	103	47	159
Vinyl Acetate	1	16.2566	0	20	81	31	160
Bromodichloromethane	1	19.1845	0	20	96	48	152
Methylcyclohexane	1	21.4749	0	20	107	47	167
Dibromomethane	1	17.4348	0	20	87	47	153
1,2-Dichloropropane	1	17.2721	0	20	86	53	153
Trichloroethene	1	19.703	0	20	99	45	165
Benzene	1	21.416	0	20	107	41	163
tert-Amyl methyl ether	1	20.9716	0	20	105	51	146
Iso-propylacetate	1	15.5217	0	20	78	37	153
Methyl methacrylate	1	14.894	0	20	74	40	160
Dibromochloromethane	1	17.9041	0	20	90	50	144
2-Chloroethylvinylether	1	17.6313	0	20	88	10	201
cis-1,3-Dichloropropene	1	20.07	0	20	100	49	146
trans-1,3-Dichloropropene	1	20.2686	0	20	101	48	144
Ethyl methacrylate	1	15.2561	0	20	76	38	160
1,1,2-Trichloroethane	1	18.4707	0	20	92	52	146
1,2-Dibromoethane	1	17.204	0	20	86	55	140
1,3-Dichloropropane	1	19.2186	0	20	96	54	142
4-Methyl-2-Pentanone	1	15.3497	0	20	77	41	158
2-Hexanone	1	15.8958	0	20	79	39	163
Tetrachloroethene	1	18.507	0	20	93	48	162
Toluene	1	20.8787	0	20	104	49	153
1,1,1,2-Tetrachloroethane	1	19.0136	0	20	95	51	140
Chlorobenzene	1	20.3402	0	20	102	43	155

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS109429

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	18.6405	0	20	93	21	181
n-Amyl acetate	1	16.7637	0	20	84	20	182
Bromoform	**1**	**17.8486**	**0**	**20**	**89**	**47**	**137**
Ethylbenzene	**1**	**21.3864**	**0**	**20**	**107**	**41**	**153**
1,1,2,2-Tetrachloroethane	**1**	**19.208**	**0**	**20**	**96**	**36**	**152**
Styrene	**1**	**22.3353**	**0**	**20**	**112**	**34**	**170**
m&p-Xylenes	**1**	**46.2854**	**0**	**40**	**116**	**16**	**184**
o-Xylene	**1**	**22.4515**	**0**	**20**	**112**	**31**	**166**
trans-1,4-Dichloro-2-butene	1	17.9772	0	20	90	10	154
1,3-Dichlorobenzene	**1**	**20.8072**	**0**	**20**	**104**	**46**	**147**
1,4-Dichlorobenzene	**1**	**20.448**	**0**	**20**	**102**	**37**	**156**
1,2-Dichlorobenzene	**1**	**20.0993**	**0**	**20**	**100**	**42**	**150**
Isopropylbenzene	**1**	**22.2154**	**0**	**20**	**111**	**32**	**174**
Cyclohexanone	1	168.3776	0	100	168	10	254
Camphene	1	23.1712	0	20	116	10	172
1,2,3-Trichloropropane	1	20.5163	0	20	103	20	164
2-Chlorotoluene	1	21.6125	0	20	108	43	153
p-Ethyltoluene	1	23.4383	0	20	117	36	164
4-Chlorotoluene	1	20.6081	0	20	103	34	160
n-Propylbenzene	1	21.7923	0	20	109	30	176
Bromobenzene	1	19.9988	0	20	100	44	142
1,3,5-Trimethylbenzene	1	22.0109	0	20	110	37	165
Butyl methacrylate	1	17.0899	0	20	85	30	169
t-Butylbenzene	1	21.8671	0	20	109	48	162
1,2,4-Trimethylbenzene	1	21.8326	0	20	109	38	162
sec-Butylbenzene	1	21.8919	0	20	109	42	164
4-Isopropyltoluene	1	21.9902	0	20	110	40	162
n-Butylbenzene	1	21.576	0	20	108	30	176
p-Diethylbenzene	1	22.0162	0	20	110	23	179
1,2,4,5-Tetramethylbenzene	1	21.8635	0	20	109	18	177
1,2-Dibromo-3-Chloropropane	**1**	**19.7845**	**0**	**20**	**99**	**32**	**154**
Camphor	1	229.2015	0	200	115	10	202
Hexachlorobutadiene	1	18.614	0	20	93	23	181
1,2,4-Trichlorobenzene	**1**	**19.6042**	**0**	**20**	**98**	**28**	**169**
1,2,3-Trichlorobenzene	**1**	**20.2201**	**0**	**20**	**101**	**30**	**172**
Naphthalene	1	22.0664	0	20	110	13	191

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS110001

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M169573.D	MBS110001	6/16/2023 2:17:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	71.4552	0	50	143	10	168
Dichlorodifluoromethane	1	46.0676	0	50	92	10	150
Chloromethane	1	57.6181	0	50	115	12	150
Bromomethane	1	33.1862	0	50	66	23	136
Vinyl Chloride	1	50.7586	0	50	102	21	153
Chloroethane	1	47.8191	0	50	96	33	147
Trichlorofluoromethane	1	49.5052	0	50	99	29	156
Ethyl ether	1	42.8211	0	50	86	10	141
Furan	1	49.7388	0	50	99	22	152
1,1,2-Trichloro-1,2,2-trifluoroethane	1	54.6806	0	50	109	32	149
Methylene Chloride	1	47.435	0	50	95	35	147
Acrolein	1	147.1537	0	200	74	10	149
Acrylonitrile	1	37.3814	0	50	75	20	130
Iodomethane	1	8.5696	0	50	17	10	152
Acetone	1	201.4836	0	200	101	22	222
Carbon Disulfide	1	62.8946	0	50	126	18	135
t-Butyl Alcohol	1	175.6061	0	200	88	38	178
n-Hexane	1	55.447	0	50	111	11	154
Di-isopropyl-ether	1	45.1157	0	50	90	38	150
1,1-Dichloroethene	1	52.7489	0	50	105	31	165
Methyl Acetate	1	35.1244	0	50	70	10	237
Methyl-t-butyl ether	1	39.1526	0	50	78	40	151
1,1-Dichloroethane	1	49.6118	0	50	99	41	149
trans-1,2-Dichloroethene	1	54.291	0	50	109	33	150
Ethyl-t-butyl ether	1	45.9932	0	50	92	22	184
cis-1,2-Dichloroethene	1	46.4926	0	50	93	33	146
Bromochloromethane	1	42.3694	0	50	85	38	143
2,2-Dichloropropane	1	48.4492	0	50	97	38	161
Ethyl acetate	1	35.4873	0	50	71	10	130
1,4-Dioxane	1	1808.089	0	2500	72	35	151
1,1-Dichloropropene	1	54.5092	0	50	109	34	149
Chloroform	1	46.4052	0	50	93	41	145
Cyclohexane	1	58.5516	0	50	117	25	148
1,2-Dichloroethane	1	40.0431	0	50	80	37	143
2-Butanone	1	36.076	0	50	72	21	163
1,1,1-Trichloroethane	1	51.9542	0	50	104	38	149
Carbon Tetrachloride	1	52.703	0	50	105	33	150
Vinyl Acetate	1	42.0307	0	50	84	10	112
Bromodichloromethane	1	42.6151	0	50	85	36	146
Methylcyclohexane	1	59.2025	0	50	118	15	147
Dibromomethane	1	40.3927	0	50	81	32	144
1,2-Dichloropropane	1	46.0839	0	50	92	40	144
Trichloroethene	1	50.8244	0	50	102	24	161
Benzene	1	50.4462	0	50	101	38	146
tert-Amyl methyl ether	1	43.9412	0	50	88	10	240
Iso-propylacetate	1	33.4385	0	50	67	10	139
Methyl methacrylate	1	39.63	0	50	79	10	224
Dibromochloromethane	1	36.1041	0	50	72	32	140
2-Chloroethylvinylether	1	159.6881	0	50	319*	10	266
cis-1,3-Dichloropropene	1	36.4564	0	50	73	27	139
trans-1,3-Dichloropropene	1	34.491	0	50	69	22	141
Ethyl methacrylate	1	32.1991	0	50	64	16	151
1,1,2-Trichloroethane	1	36.287	0	50	73	32	138
1,2-Dibromoethane	1	33.2516	0	50	67	30	135
1,3-Dichloropropane	1	37.3002	0	50	75	36	136
4-Methyl-2-Pentanone	1	35.5258	0	50	71	23	137
2-Hexanone	1	36.2147	0	50	72	10	149
Tetrachloroethene	1	47.3705	0	50	95	24	140
Toluene	1	44.1489	0	50	88	31	139
1,1,1,2-Tetrachloroethane	1	39.2342	0	50	78	31	134
Chlorobenzene	1	40.6995	0	50	81	24	134

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS110001

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	28.7884	0	50	58	10	140
n-Amyl acetate	1	32.1738	0	50	64	10	138
Bromoform	1	30.5331	0	50	61	21	137
Ethylbenzene	1	40.8921	0	50	82	29	137
1,1,2,2-Tetrachloroethane	1	32.5105	0	50	65	18	136
Styrene	1	39.0241	0	50	78	14	141
m&p-Xylenes	1	85.6137	0	100	86	18	152
o-Xylene	1	41.2987	0	50	83	21	146
trans-1,4-Dichloro-2-butene	1	29.3314	0	50	59	11	139
1,3-Dichlorobenzene	1	37.7316	0	50	75	10	134
1,4-Dichlorobenzene	1	37.1936	0	50	74	10	132
1,2-Dichlorobenzene	1	35.6153	0	50	71	10	129
Isopropylbenzene	1	43.0717	0	50	86	14	150
Cyclohexanone	1	229.4811	0	250	92	10	344
Camphene	1	48.2175	0	50	96	10	137
1,2,3-Trichloropropane	1	37.2695	0	50	75	20	133
2-Chlorotoluene	1	42.6308	0	50	85	13	140
p-Ethyltoluene	1	43.3416	0	50	87	10	138
4-Chlorotoluene	1	42.4945	0	50	85	10	138
n-Propylbenzene	1	46.3729	0	50	93	10	145
Bromobenzene	1	37.8211	0	50	76	14	132
1,3,5-Trimethylbenzene	1	47.2265	0	50	94	12	146
Butyl methacrylate	1	36.7441	0	50	73	10	154
t-Butylbenzene	1	43.9626	0	50	88	10	142
1,2,4-Trimethylbenzene	1	41.5244	0	50	83	10	147
sec-Butylbenzene	1	48.1561	0	50	96	10	146
4-Isopropyltoluene	1	36.2414	0	50	72	10	128
n-Butylbenzene	1	45.8177	0	50	92	10	146
p-Diethylbenzene	1	43.2687	0	50	87	10	142
1,2,4,5-Tetramethylbenzene	1	28.3807	0	50	57	10	130
1,2-Dibromo-3-Chloropropane	1	29.1274	0	50	58	16	126
Camphor	1	277.7387	0	200	139	20	150
Hexachlorobutadiene	1	43.7233	0	50	87	10	123
1,2,4-Trichlorobenzene	1	34.4202	0	50	69	10	128
1,2,3-Trichlorobenzene	1	33.3435	0	50	67	10	123
Naphthalene	1	29.4041	0	50	59	10	140

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS109429

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M186046.D	AD38445-001(50X)(T:MS)	6/15/2023 10:15:00 PM
Non Spike(If applicable):	2M186048.D	AD38445-001(50X)(T)	6/15/2023 10:55:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	0	0	20	0*	16	181
Dichlorodifluoromethane	**1**	**0**	**0**	**20**	**0***	**10**	**202**
Chloromethane	**1**	**0**	**0**	**20**	**0***	**10**	**182**
Bromomethane	**1**	**0**	**0**	**20**	**0***	**10**	**172**
Vinyl Chloride	**1**	**0**	**0**	**20**	**0***	**26**	**176**
Chloroethane	**1**	**0**	**0**	**20**	**0***	**28**	**165**
Trichlorofluoromethane	**1**	**0**	**0**	**20**	**0***	**18**	**178**
Ethyl ether	1	0	0	20	0*	38	155
Furan	1	0	0	20	0*	31	160
1,1,2-Trichloro-1,2,2-trifluoroethane	**1**	**0**	**0**	**20**	**0***	**32**	**178**
Methylene Chloride	**1**	**0**	**0**	**20**	**0***	**10**	**225**
Acrolein	1	0	0	100	0*	10	183
Acrylonitrile	1	0	0	20	0*	40	164
Iodomethane	1	0	0	20	0*	10	191
Acetone	**1**	**0**	**0**	**100**	**0***	**10**	**237**
Carbon Disulfide	**1**	**0**	**0**	**20**	**0***	**10**	**194**
t-Butyl Alcohol	1	0	0	100	0*	21	185
n-Hexane	1	0	0	20	0*	43	179
Di-isopropyl-ether	1	0	0	20	0*	47	159
1,1-Dichloroethene	**1**	**0**	**0**	**20**	**0***	**42**	**172**
Methyl Acetate	**1**	**0**	**0**	**20**	**0***	**10**	**192**
Methyl-t-butyl ether	**1**	**0**	**0**	**20**	**0***	**43**	**154**
1,1-Dichloroethane	**1**	**0**	**0**	**20**	**0***	**48**	**160**
trans-1,2-Dichloroethene	**1**	**0**	**0**	**20**	**0***	**37**	**171**
Ethyl-t-butyl ether	1	0	0	20	0*	53	149
cis-1,2-Dichloroethene	**1**	**0**	**0**	**20**	**0***	**45**	**161**
Bromochloromethane	**1**	**0**	**0**	**20**	**0***	**42**	**170**
2,2-Dichloropropane	1	0	0	20	0*	33	173
Ethyl acetate	1	0	0	20	0*	38	156
1,4-Dioxane	**1**	**0**	**0**	**1000**	**0***	**18**	**186**
1,1-Dichloropropene	1	0	0	20	0*	51	157
Chloroform	**1**	**0**	**0**	**20**	**0***	**47**	**157**
Cyclohexane	**1**	**0**	**0**	**20**	**0***	**41**	**175**
1,2-Dichloroethane	**1**	**0**	**0**	**20**	**0***	**43**	**154**
2-Butanone	**1**	**0**	**0**	**20**	**0***	**20**	**188**
1,1,1-Trichloroethane	**1**	**0**	**0**	**20**	**0***	**49**	**155**
Carbon Tetrachloride	**1**	**0**	**0**	**20**	**0***	**47**	**159**
Vinyl Acetate	1	0	0	20	0*	31	160
Bromodichloromethane	**1**	**0**	**0**	**20**	**0***	**48**	**152**
Methylcyclohexane	**1**	**0**	**0**	**20**	**0***	**47**	**167**
Dibromomethane	1	0	0	20	0*	47	153
1,2-Dichloropropane	**1**	**0**	**0**	**20**	**0***	**53**	**153**
Trichloroethene	**1**	**0**	**0**	**20**	**0***	**45**	**165**
Benzene	**1**	**0**	**0**	**20**	**0***	**41**	**163**
tert-Amyl methyl ether	1	0	0	20	0*	51	146
Iso-propylacetate	1	0	0	20	0*	37	153
Methyl methacrylate	1	0	0	20	0*	40	160
Dibromochloromethane	**1**	**0**	**0**	**20**	**0***	**50**	**144**
2-Chloroethylvinylether	1	0	0	20	0*	10	201
cis-1,3-Dichloropropene	**1**	**0**	**0**	**20**	**0***	**49**	**146**
trans-1,3-Dichloropropene	**1**	**0**	**0**	**20**	**0***	**48**	**144**
Ethyl methacrylate	1	0	0	20	0*	38	160
1,1,2-Trichloroethane	**1**	**0**	**0**	**20**	**0***	**52**	**146**
1,2-Dibromoethane	**1**	**0**	**0**	**20**	**0***	**55**	**140**
1,3-Dichloropropane	1	0	0	20	0*	54	142
4-Methyl-2-Pentanone	**1**	**0**	**0**	**20**	**0***	**41**	**158**
2-Hexanone	**1**	**0**	**0**	**20**	**0***	**39**	**163**
Tetrachloroethene	**1**	**0**	**0**	**20**	**0***	**48**	**156**
Toluene	**1**	**0**	**0**	**20**	**0***	**49**	**153**
1,1,1,2-Tetrachloroethane	1	0	0	20	0*	51	140
Chlorobenzene	**1**	**0**	**0**	**20**	**0***	**43**	**155**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS109429

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	0	0	20	0*	21	181
n-Amyl acetate	1	0	0	20	0*	20	182
Bromoform	**1**	**0**	**0**	**20**	**0***	**47**	**137**
Ethylbenzene	**1**	**0**	**0**	**20**	**0***	**41**	**153**
1,1,2,2-Tetrachloroethane	**1**	**0**	**0**	**20**	**0***	**36**	**152**
Styrene	**1**	**0**	**0**	**20**	**0***	**34**	**170**
m&p-Xylenes	**1**	**0**	**0**	**40**	**0***	**16**	**184**
o-Xylene	**1**	**0**	**0**	**20**	**0***	**31**	**166**
trans-1,4-Dichloro-2-butene	1	0	0	20	0*	10	154
1,3-Dichlorobenzene	**1**	**0**	**0**	**20**	**0***	**46**	**147**
1,4-Dichlorobenzene	**1**	**0**	**0**	**20**	**0***	**37**	**156**
1,2-Dichlorobenzene	**1**	**0**	**0**	**20**	**0***	**42**	**150**
Isopropylbenzene	**1**	**0**	**0**	**20**	**0***	**32**	**174**
Cyclohexanone	1	0	0	100	0*	10	254
Camphene	1	0	0	20	0*	10	172
1,2,3-Trichloropropane	1	0	0	20	0*	20	164
2-Chlorotoluene	1	0	0	20	0*	43	153
p-Ethyltoluene	1	0	0	20	0*	36	164
4-Chlorotoluene	1	0	0	20	0*	34	160
n-Propylbenzene	1	0	0	20	0*	36	170
Bromobenzene	1	0	0	20	0*	44	142
1,3,5-Trimethylbenzene	1	0	0	20	0*	37	165
Butyl methacrylate	1	0	0	20	0*	30	169
t-Butylbenzene	1	0	0	20	0*	48	152
1,2,4-Trimethylbenzene	1	0	0	20	0*	38	162
sec-Butylbenzene	1	0	0	20	0*	42	164
4-Isopropyltoluene	1	0	0	20	0*	40	162
n-Butylbenzene	1	0	0	20	0*	30	176
p-Diethylbenzene	1	0	0	20	0*	23	179
1,2,4,5-Tetramethylbenzene	1	0	0	20	0*	18	177
1,2-Dibromo-3-Chloropropane	**1**	**0**	**0**	**20**	**0***	**32**	**154**
Camphor	1	0	0	200	0*	10	202
Hexachlorobutadiene	1	0	0	20	0*	23	181
1,2,4-Trichlorobenzene	**1**	**0**	**0**	**20**	**0***	**28**	**169**
1,2,3-Trichlorobenzene	**1**	**0**	**0**	**20**	**0***	**30**	**172**
Naphthalene	1	0	0	20	0*	13	191

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS109429

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M186047.D	AD38445-001(50X)(T:MSD)	6/15/2023 10:36:00 PM
Non Spike(If applicable):	2M186048.D	AD38445-001(50X)(T)	6/15/2023 10:55:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	0	0	20	0*	16	181
Dichlorodifluoromethane	1	0	0	20	0*	10	202
Chloromethane	1	0	0	20	0*	10	182
Bromomethane	1	0	0	20	0*	10	172
Vinyl Chloride	1	0	0	20	0*	26	176
Chloroethane	1	0	0	20	0*	28	165
Trichlorofluoromethane	1	0	0	20	0*	18	178
Ethyl ether	1	0	0	20	0*	38	155
Furan	1	0	0	20	0*	31	160
1,1,2-Trichloro-1,2,2-trifluoroethane	1	0	0	20	0*	32	178
Methylene Chloride	1	0	0	20	0*	10	225
Acrolein	1	0	0	100	0*	10	183
Acrylonitrile	1	0	0	20	0*	40	164
Iodomethane	1	0	0	20	0*	10	191
Acetone	1	0	0	100	0*	10	237
Carbon Disulfide	1	0	0	20	0*	10	194
t-Butyl Alcohol	1	0	0	100	0*	21	185
n-Hexane	1	0	0	20	0*	43	179
Di-isopropyl-ether	1	0	0	20	0*	47	159
1,1-Dichloroethene	1	0	0	20	0*	42	172
Methyl Acetate	1	0	0	20	0*	10	192
Methyl-t-butyl ether	1	0	0	20	0*	43	154
1,1-Dichloroethane	1	0	0	20	0*	48	160
trans-1,2-Dichloroethene	1	0	0	20	0*	37	171
Ethyl-t-butyl ether	1	0	0	20	0*	53	149
cis-1,2-Dichloroethene	1	0	0	20	0*	45	161
Bromochloromethane	1	0	0	20	0*	42	170
2,2-Dichloropropane	1	0	0	20	0*	33	173
Ethyl acetate	1	0	0	20	0*	38	156
1,4-Dioxane	1	0	0	1000	0*	18	186
1,1-Dichloropropene	1	0	0	20	0*	51	157
Chloroform	1	0	0	20	0*	47	157
Cyclohexane	1	0	0	20	0*	41	175
1,2-Dichloroethane	1	0	0	20	0*	43	154
2-Butanone	1	0	0	20	0*	20	188
1,1,1-Trichloroethane	1	0	0	20	0*	49	155
Carbon Tetrachloride	1	0	0	20	0*	47	159
Vinyl Acetate	1	0	0	20	0*	31	160
Bromodichloromethane	1	0	0	20	0*	48	152
Methylcyclohexane	1	0	0	20	0*	47	167
Dibromomethane	1	0	0	20	0*	47	153
1,2-Dichloropropane	1	0	0	20	0*	53	153
Trichloroethene	1	0	0	20	0*	45	165
Benzene	1	0	0	20	0*	41	163
tert-Amyl methyl ether	1	0	0	20	0*	51	146
Iso-propylacetate	1	0	0	20	0*	37	153
Methyl methacrylate	1	0	0	20	0*	40	160
Dibromochloromethane	1	0	0	20	0*	50	144
2-Chloroethylvinylether	1	0	0	20	0*	10	201
cis-1,3-Dichloropropene	1	0	0	20	0*	49	146
trans-1,3-Dichloropropene	1	0	0	20	0*	48	144
Ethyl methacrylate	1	0	0	20	0*	38	160
1,1,2-Trichloroethane	1	0	0	20	0*	52	146
1,2-Dibromoethane	1	0	0	20	0*	55	140
1,3-Dichloropropane	1	0	0	20	0*	54	142
4-Methyl-2-Pentanone	1	0	0	20	0*	41	158
2-Hexanone	1	0	0	20	0*	39	163
Tetrachloroethene	1	0	0	20	0*	48	156
Toluene	1	0	0	20	0*	49	153
1,1,1,2-Tetrachloroethane	1	0	0	20	0*	51	140
Chlorobenzene	1	0	0	20	0*	43	155

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS109429

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	0	0	20	0*	21	181
n-Amyl acetate	1	0	0	20	0*	20	182
Bromoform	**1**	**0**	**0**	**20**	**0***	**47**	**137**
Ethylbenzene	**1**	**0**	**0**	**20**	**0***	**41**	**153**
1,1,2,2-Tetrachloroethane	**1**	**0**	**0**	**20**	**0***	**36**	**152**
Styrene	**1**	**0**	**0**	**20**	**0***	**34**	**170**
m&p-Xylenes	**1**	**0**	**0**	**40**	**0***	**16**	**184**
o-Xylene	**1**	**0**	**0**	**20**	**0***	**31**	**166**
trans-1,4-Dichloro-2-butene	1	0	0	20	0*	10	154
1,3-Dichlorobenzene	**1**	**0**	**0**	**20**	**0***	**46**	**147**
1,4-Dichlorobenzene	**1**	**0**	**0**	**20**	**0***	**37**	**156**
1,2-Dichlorobenzene	**1**	**0**	**0**	**20**	**0***	**42**	**150**
Isopropylbenzene	**1**	**0**	**0**	**20**	**0***	**32**	**174**
Cyclohexanone	1	0	0	100	0*	10	254
Camphene	1	0	0	20	0*	10	172
1,2,3-Trichloropropane	1	0	0	20	0*	20	164
2-Chlorotoluene	1	0	0	20	0*	43	153
p-Ethyltoluene	1	0	0	20	0*	36	164
4-Chlorotoluene	1	0	0	20	0*	34	160
n-Propylbenzene	1	0	0	20	0*	36	170
Bromobenzene	1	0	0	20	0*	44	142
1,3,5-Trimethylbenzene	1	0	0	20	0*	37	165
Butyl methacrylate	1	0	0	20	0*	30	169
t-Butylbenzene	1	0	0	20	0*	48	152
1,2,4-Trimethylbenzene	1	0	0	20	0*	38	162
sec-Butylbenzene	1	0	0	20	0*	42	164
4-Isopropyltoluene	1	0	0	20	0*	40	162
n-Butylbenzene	1	0	0	20	0*	30	176
p-Diethylbenzene	1	0	0	20	0*	23	179
1,2,4,5-Tetramethylbenzene	1	0	0	20	0*	18	177
1,2-Dibromo-3-Chloropropane	**1**	**0**	**0**	**20**	**0***	**32**	**154**
Camphor	1	0	0	200	0*	10	202
Hexachlorobutadiene	1	0	0	20	0*	23	181
1,2,4-Trichlorobenzene	**1**	**0**	**0**	**20**	**0***	**28**	**169**
1,2,3-Trichlorobenzene	**1**	**0**	**0**	**20**	**0***	**30**	**172**
Naphthalene	1	0	0	20	0*	13	191

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS109429

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M186047.D	AD38445-001(50X)(T:MSD)	6/15/2023 10:36:00 PM
Duplicate(If applicable):	2M186046.D	AD38445-001(50X)(T:MS)	6/15/2023 10:15:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	0	0	NA	78
Dichlorodifluoromethane	**1**	**0**	**0**	**NA**	**62**
Chloromethane	**1**	**0**	**0**	**NA**	**67**
Bromomethane	**1**	**0**	**0**	**NA**	**65**
Vinyl Chloride	**1**	**0**	**0**	**NA**	**55**
Chloroethane	**1**	**0**	**0**	**NA**	**59**
Trichlorofluoromethane	**1**	**0**	**0**	**NA**	**56**
Ethyl ether	1	0	0	NA	55
Furan	1	0	0	NA	55
1,1,2-Trichloro-1,2,2-trifluoroethane	**1**	**0**	**0**	**NA**	**58**
Methylene Chloride	**1**	**0**	**0**	**NA**	**36**
Acrolein	1	0	0	NA	66
Acrylonitrile	1	0	0	NA	59
Iodomethane	1	0	0	NA	66
Acetone	**1**	**0**	**0**	**NA**	**85**
Carbon Disulfide	**1**	**0**	**0**	**NA**	**61**
t-Butyl Alcohol	1	0	0	NA	78
n-Hexane	1	0	0	NA	56
Di-isopropyl-ether	1	0	0	NA	54
1,1-Dichloroethene	**1**	**0**	**0**	**NA**	**56**
Methyl Acetate	**1**	**0**	**0**	**NA**	**71**
Methyl-t-butyl ether	**1**	**0**	**0**	**NA**	**53**
1,1-Dichloroethane	**1**	**0**	**0**	**NA**	**54**
trans-1,2-Dichloroethene	**1**	**0**	**0**	**NA**	**54**
Ethyl-t-butyl ether	1	0	0	NA	53
cis-1,2-Dichloroethene	**1**	**0**	**0**	**NA**	**53**
Bromochloromethane	**1**	**0**	**0**	**NA**	**54**
2,2-Dichloropropane	1	0	0	NA	55
Ethyl acetate	1	0	0	NA	56
1,4-Dioxane	**1**	**0**	**0**	**NA**	**95**
1,1-Dichloropropene	1	0	0	NA	54
Chloroform	**1**	**0**	**0**	**NA**	**53**
Cyclohexane	**1**	**0**	**0**	**NA**	**55**
1,2-Dichloroethane	**1**	**0**	**0**	**NA**	**52**
2-Butanone	**1**	**0**	**0**	**NA**	**58**
1,1,1-Trichloroethane	**1**	**0**	**0**	**NA**	**54**
Carbon Tetrachloride	**1**	**0**	**0**	**NA**	**54**
Vinyl Acetate	1	0	0	NA	55
Bromodichloromethane	**1**	**0**	**0**	**NA**	**53**
Methylcyclohexane	**1**	**0**	**0**	**NA**	**55**
Dibromomethane	1	0	0	NA	53
1,2-Dichloropropane	**1**	**0**	**0**	**NA**	**53**
Trichloroethene	**1**	**0**	**0**	**NA**	**54**
Benzene	**1**	**0**	**0**	**NA**	**52**
tert-Amyl methyl ether	1	0	0	NA	52
Iso-propylacetate	1	0	0	NA	54
Methyl methacrylate	1	0	0	NA	55
Dibromochloromethane	**1**	**0**	**0**	**NA**	**52**
2-Chloroethylvinylether	1	0	0	NA	224
cis-1,3-Dichloropropene	**1**	**0**	**0**	**NA**	**53**
trans-1,3-Dichloropropene	**1**	**0**	**0**	**NA**	**53**
Ethyl methacrylate	1	0	0	NA	55
1,1,2-Trichloroethane	**1**	**0**	**0**	**NA**	**52**
1,2-Dibromoethane	**1**	**0**	**0**	**NA**	**52**
1,3-Dichloropropane	1	0	0	NA	53
4-Methyl-2-Pentanone	**1**	**0**	**0**	**NA**	**69**
2-Hexanone	**1**	**0**	**0**	**NA**	**54**
Tetrachloroethene	**1**	**0**	**0**	**NA**	**53**
Toluene	**1**	**0**	**0**	**NA**	**53**
1,1,1,2-Tetrachloroethane	1	0	0	NA	53
Chlorobenzene	**1**	**0**	**0**	**NA**	**53**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: MBS109429

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	0	0	NA	72
n-Amyl acetate	1	0	0	NA	72
Bromoform	1	0	0	NA	54
Ethylbenzene	1	0	0	NA	57
1,1,2,2-Tetrachloroethane	1	0	0	NA	58
Styrene	1	0	0	NA	56
m&p-Xylenes	1	0	0	NA	107
o-Xylene	1	0	0	NA	55
trans-1,4-Dichloro-2-butene	1	0	0	NA	71
1,3-Dichlorobenzene	1	0	0	NA	53
1,4-Dichlorobenzene	1	0	0	NA	68
1,2-Dichlorobenzene	1	0	0	NA	53
Isopropylbenzene	1	0	0	NA	53
Cyclohexanone	1	0	0	NA	77
Camphene	1	0	0	NA	68
1,2,3-Trichloropropane	1	0	0	NA	54
2-Chlorotoluene	1	0	0	NA	55
p-Ethyltoluene	1	0	0	NA	56
4-Chlorotoluene	1	0	0	NA	55
n-Propylbenzene	1	0	0	NA	51
Bromobenzene	1	0	0	NA	72
1,3,5-Trimethylbenzene	1	0	0	NA	56
Butyl methacrylate	1	0	0	NA	83
t-Butylbenzene	1	0	0	NA	70
1,2,4-Trimethylbenzene	1	0	0	NA	72
sec-Butylbenzene	1	0	0	NA	54
4-Isopropyltoluene	1	0	0	NA	69
n-Butylbenzene	1	0	0	NA	55
p-Diethylbenzene	1	0	0	NA	70
1,2,4,5-Tetramethylbenzene	1	0	0	NA	51
1,2-Dibromo-3-Chloropropane	1	0	0	NA	56
Camphor	1	0	0	NA	127
Hexachlorobutadiene	1	0	0	NA	69
1,2,4-Trichlorobenzene	1	0	0	NA	87
1,2,3-Trichlorobenzene	1	0	0	NA	81
Naphthalene	1	0	0	NA	80

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS110001

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M169571.D	AD38586-007(MS:AD38586-001	6/16/2023 1:32:00 PM
Non Spike(If applicable):	6M169566.D	AD38586-001	6/16/2023 11:41:00 AM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	47.5405	0	50	95	10	168
Dichlorodifluoromethane	1	45.1509	0	50	90	10	150
Chloromethane	1	33.7443	0	50	67	12	150
Bromomethane	1	13.9801	0	50	28	23	136
Vinyl Chloride	1	27.3674	0	50	55	21	153
Chloroethane	1	24.4298	0	50	49	33	147
Trichlorofluoromethane	1	32.3878	0	50	65	29	156
Ethyl ether	1	17.1939	0	50	34	10	141
Furan	1	19.7461	0	50	39	22	152
1,1,2-Trichloro-1,2,2-trifluoroethane	1	34.3224	0	50	69	32	149
Methylene Chloride	1	13.0288	0	50	26*	35	147
Acrolein	1	60.0346	0	200	30	10	149
Acrylonitrile	1	6.8249	0	50	14*	20	130
Iodomethane	1	3.7191	0	50	7.4*	10	152
Acetone	1	130.918	0	200	65	22	222
Carbon Disulfide	1	11.2664	0	50	23	18	135
t-Butyl Alcohol	1	135.7447	0	200	68	38	178
n-Hexane	1	15.1392	0	50	30	11	154
Di-isopropyl-ether	1	26.9381	0	50	54	38	150
1,1-Dichloroethene	1	21.3125	0	50	43	31	165
Methyl Acetate	1	18.1317	0	50	36	10	237
Methyl-t-butyl ether	1	30.4895	0	50	61	40	151
1,1-Dichloroethane	1	22.5476	0	50	45	41	149
trans-1,2-Dichloroethene	1	9.1793	0	50	18*	33	150
Ethyl-t-butyl ether	1	26.0405	0	50	52	22	184
cis-1,2-Dichloroethene	1	9.8448	0	50	20*	33	146
Bromochloromethane	1	6.3514	0	50	13*	38	143
2,2-Dichloropropane	1	33.0386	0	50	66	38	161
Ethyl acetate	1	6.5826	0	50	13	10	130
1,4-Dioxane	1	1255.385	0	2500	50	35	151
1,1-Dichloropropene	1	11.101	0	50	22*	34	149
Chloroform	1	15.3977	0	50	31*	41	145
Cyclohexane	1	26.5214	0	50	53	25	148
1,2-Dichloroethane	1	5.5723	0	50	11*	37	143
2-Butanone	1	16.9348	0	50	34	21	163
1,1,1-Trichloroethane	1	32.2803	0	50	65	38	149
Carbon Tetrachloride	1	28.5979	0	50	57	33	150
Vinyl Acetate	1	14.1938	0	50	28	10	112
Bromodichloromethane	1	8.6875	0	50	17*	36	146
Methylcyclohexane	1	20.3125	0	50	41	15	147
Dibromomethane	1	3.3909	0	50	6.8*	32	142
1,2-Dichloropropane	1	14.5681	0	50	29*	40	144
Trichloroethene	1	7.1499	0	50	14*	24	161
Benzene	1	14.6976	0	50	29*	38	146
tert-Amyl methyl ether	1	28.7591	0	50	58	10	240
Iso-propylacetate	1	13.9442	0	50	28	10	139
Methyl methacrylate	1	8.0384	0	50	16	10	224
Dibromochloromethane	1	5.6532	0	50	11*	32	140
2-Chloroethylvinylether	1	39.3087	0	50	79	10	266
cis-1,3-Dichloropropene	1	2.2223	0	50	4.4*	27	139
trans-1,3-Dichloropropene	1	0	0	50	0*	22	141
Ethyl methacrylate	1	3.658	0	50	7.3*	16	151
1,1,2-Trichloroethane	1	8.2029	0	50	16*	32	138
1,2-Dibromoethane	1	1.5936	0	50	3.2*	30	135
1,3-Dichloropropane	1	3.7651	0	50	7.5*	36	136
4-Methyl-2-Pentanone	1	13.7231	0	50	27	23	137
2-Hexanone	1	4.8475	0	50	9.7*	10	149
Tetrachloroethene	1	12.3399	0	50	25	24	140
Toluene	1	8.9478	0	50	18*	31	139
1,1,1,2-Tetrachloroethane	1	15.3799	0	50	31	31	134
Chlorobenzene	1	2.8648	0	50	5.7*	24	134

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS110001

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	0	0	50	0*	10	140
n-Amyl acetate	1	0	0	50	0*	10	138
Bromoform	1	5.3588	0	50	11*	21	137
Ethylbenzene	1	8.1384	0	50	16*	29	137
1,1,2,2-Tetrachloroethane	1	10.5184	0	50	21	18	136
Styrene	1	2.2339	0	50	4.5*	14	141
m&p-Xylenes	1	14.8587	0	100	15*	18	152
o-Xylene	1	9.6305	0	50	19*	21	146
trans-1,4-Dichloro-2-butene	1	10.5554	0	50	21	11	139
1,3-Dichlorobenzene	1	0	0	50	0*	10	134
1,4-Dichlorobenzene	1	0	0	50	0*	10	132
1,2-Dichlorobenzene	1	0	0	50	0*	10	129
Isopropylbenzene	1	13.2035	0	50	26	14	150
Cyclohexanone	1	393.5367	0	250	157	10	344
Camphene	1	29.2387	0	50	58	10	137
1,2,3-Trichloropropane	1	5.9949	0	50	12*	20	133
2-Chlorotoluene	1	5.5762	0	50	11*	13	140
p-Ethyltoluene	1	5.0368	0	50	10	10	138
4-Chlorotoluene	1	0	0	50	0*	10	138
n-Propylbenzene	1	6.6602	0	50	13	10	145
Bromobenzene	1	6.004	0	50	12*	14	132
1,3,5-Trimethylbenzene	1	10.5254	0	50	21	12	146
Butyl methacrylate	1	1.6833	0	50	3.4*	10	154
t-Butylbenzene	1	17.5224	0	50	35	10	142
1,2,4-Trimethylbenzene	1	5.4725	0	50	11	10	147
sec-Butylbenzene	1	12.4166	0	50	25	10	146
4-Isopropyltoluene	1	6.9637	0	50	14	10	128
n-Butylbenzene	1	2.8321	0	50	5.7*	10	146
p-Diethylbenzene	1	2.9187	0	50	5.8*	10	142
1,2,4,5-Tetramethylbenzene	1	2.0168	0	50	4*	10	130
1,2-Dibromo-3-Chloropropane	1	4.3905	0	50	8.8*	16	126
~~Camphor~~	~~1~~	~~217.0234~~	~~0~~				
Hexachlorobutadiene	1	9.72	0	50	19	10	123
1,2,4-Trichlorobenzene	1	0	0	50	0*	10	128
1,2,3-Trichlorobenzene	1	0	0	50	0*	10	123
Naphthalene	1	1.3613	0	50	2.7*	10	140

MP 06129

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS110001

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M169572.D	AD38586-008(MSD:AD38586-0	6/16/2023 1:54:00 PM
Non Spike(If applicable):	6M169566.D	AD38586-001	6/16/2023 11:41:00 AM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	46.1556	0	50	92	10	168
Dichlorodifluoromethane	1	53.61	0	50	107	10	150
Chloromethane	1	38.3882	0	50	77	12	150
Bromomethane	1	15.7948	0	50	32	23	136
Vinyl Chloride	1	32.2071	0	50	64	21	153
Chloroethane	1	25.5445	0	50	51	33	147
Trichlorofluoromethane	1	40.8868	0	50	82	29	156
Ethyl ether	1	16.5489	0	50	33	10	141
Furan	1	20.0944	0	50	40	22	152
1,1,2-Trichloro-1,2,2-trifluoroethane	1	46.3179	0	50	93	32	149
Methylene Chloride	1	13.5538	0	50	27*	35	147
Acrolein	1	62.456	0	200	31	10	149
Acrylonitrile	1	10.1251	0	50	20	20	130
Iodomethane	1	3.9965	0	50	8*	10	152
Acetone	1	148.3561	0	200	74	22	222
Carbon Disulfide	1	14.8382	0	50	30	18	135
t-Butyl Alcohol	1	152.2016	0	200	76	38	178
n-Hexane	1	29.2858	0	50	59	11	154
Di-isopropyl-ether	1	30.5463	0	50	61	38	150
1,1-Dichloroethene	1	24.2401	0	50	48	31	165
Methyl Acetate	1	15.7326	0	50	31	10	237
Methyl-t-butyl ether	1	35.9044	0	50	72	40	151
1,1-Dichloroethane	1	24.0291	0	50	48	41	149
trans-1,2-Dichloroethene	1	9.3774	0	50	19*	33	150
Ethyl-t-butyl ether	1	30.7302	0	50	61	22	184
cis-1,2-Dichloroethene	1	9.9754	0	50	20*	33	146
Bromochloromethane	1	6.4755	0	50	13*	38	143
2,2-Dichloropropane	1	38.8895	0	50	78	38	161
Ethyl acetate	1	6.8372	0	50	14	10	130
1,4-Dioxane	1	1526.333	0	2500	61	35	151
1,1-Dichloropropene	1	13.2824	0	50	27*	34	149
Chloroform	1	16.1026	0	50	32*	41	145
Cyclohexane	1	38.4574	0	50	77	25	148
1,2-Dichloroethane	1	5.4361	0	50	11*	37	143
2-Butanone	1	17.09	0	50	34	21	163
1,1,1-Trichloroethane	1	38.7395	0	50	77	38	149
Carbon Tetrachloride	1	37.9611	0	50	76	33	150
Vinyl Acetate	1	16.2433	0	50	32	10	112
Bromodichloromethane	1	8.7975	0	50	18*	36	146
Methylcyclohexane	1	32.7463	0	50	65	15	147
Dibromomethane	1	3.3257	0	50	6.7*	32	144
1,2-Dichloropropane	1	15.7339	0	50	31*	40	144
Trichloroethene	1	6.7762	0	50	14*	24	161
Benzene	1	15.2081	0	50	30*	38	146
tert-Amyl methyl ether	1	34.5391	0	50	69	10	240
Iso-propylacetate	1	18.3075	0	50	37	10	139
Methyl methacrylate	1	8.1747	0	50	16	10	224
Dibromochloromethane	1	7.0352	0	50	14*	32	140
2-Chloroethylvinylether	1	29.1207	0	50	58	10	266
cis-1,3-Dichloropropene	1	2.4632	0	50	4.9*	27	139
trans-1,3-Dichloropropene	1	0	0	50	0*	22	141
Ethyl methacrylate	1	4.076	0	50	8.2*	16	151
1,1,2-Trichloroethane	1	10.0477	0	50	20*	32	138
1,2-Dibromoethane	1	1.9606	0	50	3.9*	30	135
1,3-Dichloropropane	1	4.2665	0	50	8.5*	36	136
4-Methyl-2-Pentanone	1	17.3861	0	50	35	23	137
2-Hexanone	1	6.0877	0	50	12	10	149
Tetrachloroethene	1	16.32	0	50	33	24	140
Toluene	1	9.8361	0	50	20*	31	139
1,1,1,2-Tetrachloroethane	1	23.2875	0	50	47	31	134
Chlorobenzene	1	2.9633	0	50	5.9*	24	134

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS110001

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	0	0	50	0*	10	140
n-Amyl acetate	1	0	0	50	0*	10	138
Bromoform	1	8.294	0	50	17*	21	137
Ethylbenzene	1	10.8216	0	50	22*	29	137
1,1,2,2-Tetrachloroethane	1	17.3056	0	50	35	18	136
Styrene	1	2.9806	0	50	6*	14	141
m&p-Xylenes	1	19.7297	0	100	20	18	152
o-Xylene	1	13.842	0	50	28	21	146
trans-1,4-Dichloro-2-butene	1	20.1836	0	50	40	11	139
1,3-Dichlorobenzene	1	0	0	50	0*	10	134
1,4-Dichlorobenzene	1	0	0	50	0*	10	132
1,2-Dichlorobenzene	1	2.4125	0	50	4.8*	10	129
Isopropylbenzene	1	19.2974	0	50	39	14	150
Cyclohexanone	1	757.2889	0	250	303	10	344
Camphene	1	59.4269	0	50	119	10	137
1,2,3-Trichloropropane	1	9.7206	0	50	19*	20	133
2-Chlorotoluene	1	7.5946	0	50	15	13	140
p-Ethyltoluene	1	5.4682	0	50	11	10	138
4-Chlorotoluene	1	2.5713	0	50	5.1*	10	138
n-Propylbenzene	1	7.7646	0	50	16	10	145
Bromobenzene	1	10.3777	0	50	21	14	132
1,3,5-Trimethylbenzene	1	14.059	0	50	28	12	146
Butyl methacrylate	1	2.1707	0	50	4.3*	10	154
t-Butylbenzene	1	27.3053	0	50	55	10	142
1,2,4-Trimethylbenzene	1	6.9567	0	50	14	10	147
sec-Butylbenzene	1	16.0113	0	50	32	10	146
4-Isopropyltoluene	1	7.5897	0	50	15	10	128
n-Butylbenzene	1	2.4962	0	50	5*	10	146
p-Diethylbenzene	1	2.8875	0	50	5.8*	10	142
1,2,4,5-Tetramethylbenzene	1	2.2834	0	50	4.6*	10	130
1,2-Dibromo-3-Chloropropane	1	6.5	0	50	13*	16	126
~~Camphor~~	~~1~~	~~369.1471~~	~~0~~				
MP 061209 Hexachlorobutadiene	1	10.8018	0	50	22	10	123
1,2,4-Trichlorobenzene	1	0	0	50	0*	10	128
1,2,3-Trichlorobenzene	1	0	0	50	0*	10	123
Naphthalene	1	0	0	50	0*	10	140

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS110001

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M169572.D	AD38586-008(MSD:AD38586-0	6/16/2023 1:54:00 PM
Duplicate(If applicable):	6M169571.D	AD38586-007(MS:AD38586-001	6/16/2023 1:32:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	46.1556	47.5405	3	56
Dichlorodifluoromethane	1	53.61	45.1509	17	60
Chloromethane	1	38.3882	33.7443	13	49
Bromomethane	1	15.7948	13.9801	12	38
Vinyl Chloride	1	32.2071	27.3674	16	47
Chloroethane	1	25.5445	24.4298	4.5	39
Trichlorofluoromethane	1	40.8868	32.3878	23	43
Ethyl ether	1	16.5489	17.1939	3.8	106
Furan	1	20.0944	19.7461	1.7	56
1,1,2-Trichloro-1,2,2-trifluoroethane	1	46.3179	34.3224	30	45
Methylene Chloride	1	13.5538	13.0288	3.9	35
Acrolein	1	62.456	60.0346	4	129
Acrylonitrile	1	10.1251	6.8249	39	40
Iodomethane	1	3.9965	3.7191	7.2	46
Acetone	1	148.3561	130.918	12	41
Carbon Disulfide	1	14.8382	11.2664	27	44
t-Butyl Alcohol	1	152.2016	135.7447	11	38
n-Hexane	1	29.2858	15.1392	64*	52
Di-isopropyl-ether	1	30.5463	26.9381	13	36
1,1-Dichloroethene	1	24.2401	21.3125	13	42
Methyl Acetate	1	15.7326	18.1317	14	43
Methyl-t-butyl ether	1	35.9044	30.4895	16	34
1,1-Dichloroethane	1	24.0291	22.5476	6.4	37
trans-1,2-Dichloroethene	1	9.3774	9.1793	2.1	40
Ethyl-t-butyl ether	1	30.7302	26.0405	17	55
cis-1,2-Dichloroethene	1	9.9754	9.8448	1.3	36
Bromochloromethane	1	6.4755	6.3514	1.9	29
2,2-Dichloropropane	1	38.8895	33.0386	16	38
Ethyl acetate	1	6.8372	6.5826	3.8	106
1,4-Dioxane	1	1526.333	1255.385	19	38
1,1-Dichloropropene	1	13.2824	11.101	18	39
Chloroform	1	16.1026	15.3977	4.5	31
Cyclohexane	1	38.4574	26.5214	37	44
1,2-Dichloroethane	1	5.4361	5.5723	2.5	29
2-Butanone	1	17.09	16.9348	0.91	46
1,1,1-Trichloroethane	1	38.7395	32.2803	18	36
Carbon Tetrachloride	1	37.9611	28.5979	28	37
Vinyl Acetate	1	16.2433	14.1938	13	44
Bromodichloromethane	1	8.7975	8.6875	1.3	32
Methylcyclohexane	1	32.7463	20.3125	47*	45
Dibromomethane	1	3.3257	3.3909	1.9	30
1,2-Dichloropropane	1	15.7339	14.5681	7.7	31
Trichloroethene	1	6.7762	7.1499	5.4	36
Benzene	1	15.2081	14.6976	3.4	33
tert-Amyl methyl ether	1	34.5391	28.7591	18	29
Iso-propylacetate	1	18.3075	13.9442	27	117
Methyl methacrylate	1	8.1747	8.0384	1.7	68
Dibromochloromethane	1	7.0352	5.6532	22	35
2-Chloroethylvinylether	1	29.1207	39.3087	30	167
cis-1,3-Dichloropropene	1	2.4632	2.2223	10	36
trans-1,3-Dichloropropene	1	0	0	NA	37
Ethyl methacrylate	1	4.076	3.658	11	46
1,1,2-Trichloroethane	1	10.0477	8.2029	20	41
1,2-Dibromoethane	1	1.9606	1.5936	21	34
1,3-Dichloropropane	1	4.2665	3.7651	12	33
4-Methyl-2-Pentanone	1	17.3861	13.7231	24	57
2-Hexanone	1	6.0877	4.8475	23	63
Tetrachloroethene	1	16.32	12.3399	28	40
Toluene	1	9.8361	8.9478	9.5	38
1,1,1,2-Tetrachloroethane	1	23.2875	15.3799	41*	35
Chlorobenzene	1	2.9633	2.8648	3.4	38

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: MBS110001

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	0	0	NA	134
n-Amyl acetate	1	0	0	NA	166
Bromoform	**1**	**8.294**	**5.3588**	**43***	**37**
Ethylbenzene	**1**	**10.8216**	**8.1384**	**28**	**36**
1,1,2,2-Tetrachloroethane	**1**	**17.3056**	**10.5184**	**49***	**40**
Styrene	**1**	**2.9806**	**2.2339**	**29**	**45**
m&p-Xylenes	**1**	**19.7297**	**14.8587**	**28**	**44**
o-Xylene	**1**	**13.842**	**9.6305**	**36**	**43**
trans-1,4-Dichloro-2-butene	1	20.1836	10.5554	63*	39
1,3-Dichlorobenzene	**1**	**0**	**0**	**NA**	**46**
1,4-Dichlorobenzene	**1**	**0**	**0**	**NA**	**47**
1,2-Dichlorobenzene	**1**	**2.4125**	**0**	**200***	**47**
Isopropylbenzene	**1**	**19.2974**	**13.2035**	**37**	**46**
Cyclohexanone	1	757.2889	393.5367	63	63
Camphene	1	59.4269	29.2387	68*	54
1,2,3-Trichloropropane	1	9.7206	5.9949	47*	38
2-Chlorotoluene	1	7.5946	5.5762	31	47
p-Ethyltoluene	1	5.4682	5.0368	8.2	58
4-Chlorotoluene	1	2.5713	0	200*	48
n-Propylbenzene	1	7.7646	6.6602	15	46
Bromobenzene	1	10.3777	6.004	53*	41
1,3,5-Trimethylbenzene	1	14.059	10.5254	29	45
Butyl methacrylate	1	2.1707	1.6833	25	83
t-Butylbenzene	1	27.3053	17.5224	44	46
1,2,4-Trimethylbenzene	1	6.9567	5.4725	24	49
sec-Butylbenzene	1	16.0113	12.4166	25	49
4-Isopropyltoluene	1	7.5897	6.9637	8.6	51
n-Butylbenzene	1	2.4962	2.8321	13	55
p-Diethylbenzene	1	2.8875	2.9187	1.1	55
1,2,4,5-Tetramethylbenzene	1	2.2834	2.0168	12	59
1,2-Dibromo-3-Chloropropane	**1**	**6.5**	**4.3905**	**39**	**43**
~~Camphor~~	~~1~~	~~369.1471~~	~~217.0234~~	~~52~~	
Hexachlorobutadiene	1	10.8018	9.72	11	56
1,2,4-Trichlorobenzene	**1**	**0**	**0**	**NA**	**58**
1,2,3-Trichlorobenzene	**1**	**0**	**0**	**NA**	**60**
Naphthalene	1	0	1.3613	200*	70

MP 06129

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 2M186042.D
Matrix: Aqueous

Blank Analysis Date: 06/15/23 20:41
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

Sample Number	Data File	Analysis Date
AD38586-005	2M186049.D	06/15/23 23:15
AD38586-006	2M186050.D	06/15/23 23:35
AD38445-001(50X)	2M186048.D	06/15/23 22:55
AD38445-001(50X)	2M186047.D	06/15/23 22:36
AD38445-001(50X)	2M186046.D	06/15/23 22:15
MBS109429	2M186044.D	06/15/23 21:35

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 6M169565.D
Matrix: Soil

Blank Analysis Date: 06/16/23 11:19
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

Sample Number	Data File	Analysis Date
AD38586-001	6M169566.D	06/16/23 11:41
AD38586-002	6M169567.D	06/16/23 12:03
AD38586-007(MS:	6M169571.D	06/16/23 13:32
AD38586-008(MSD	6M169572.D	06/16/23 13:54
MBS110001	6M169573.D	06/16/23 14:17

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 6
Data File: 6M167848.D
Analysis Date: 05/10/23 01:41
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.367 to 7.391 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	16.9	6437	PASS
75	95	30	60	49.0	18663	PASS
95	95	100	100	100.0	38058	PASS
96	95	5	9	6.7	2568	PASS
173	174	0.00	2	0.7	225	PASS
174	95	50	100	88.1	33527	PASS
175	174	5	9	7.8	2608	PASS
176	174	95	101	95.2	31905	PASS
177	176	5	9	6.8	2168	PASS

Data File	Sample Number	Analysis Date:
6M167849.D	BLK	05/10/23 01:56
6M167853.D	CAL @ 0.5 PPB	05/10/23 03:10
6M167854.D	CAL @ 1 PPB	05/10/23 03:32
6M167855.D	CAL @ 5 PPB	05/10/23 03:54
6M167856.D	CAL @ 2 PPB	05/10/23 04:16
6M167857.D	CAL @20 PPB	05/10/23 04:38
6M167858.D	CAL @ 50 PPB	05/10/23 05:00
6M167859.D	CAL @ 100 PPB	05/10/23 05:21
6M167860.D	CAL @ 250PPB	05/10/23 05:43
6M167862.D	CAL @ 500 PPB	05/10/23 06:27
6M167867.D	ICV	05/10/23 08:17

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 2
Data File: 2M185175.D
Analysis Date: 05/26/23 20:59
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.342 to 7.385 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	19.0	6968	PASS
75	95	30	60	49.1	17994	PASS
95	95	100	100	100.0	36674	PASS
96	95	5	9	6.7	2441	PASS
173	174	0.00	2	0.6	215	PASS
174	95	50	100	98.8	36219	PASS
175	174	5	9	7.3	2644	PASS
176	174	95	101	96.6	34978	PASS
177	176	5	9	6.4	2240	PASS

Data File	Sample Number	Analysis Date:
2M185176.D	CAL @ 0.5 PPB	05/26/23 21:19
2M185177.D	CAL @1 PPB	05/26/23 21:39
2M185178.D	CAL @ 5 PPB	05/26/23 21:59
2M185179.D	CAL @10 PPB	05/26/23 22:19
2M185180.D	CAL @ 20 PPB	05/26/23 22:39
2M185181.D	CAL @ 50 PPB	05/26/23 22:59
2M185182.D	CAL @100 PPB	05/26/23 23:19
2M185183.D	CAL @250 PPB	05/26/23 23:39
2M185184.D	CAL @500 PPB	05/26/23 23:59
2M185189.D	ICV	05/27/23 01:39

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 2
Data File: 2M186035.D
Analysis Date: 06/15/23 18:26
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.348 to 7.354 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	16.5	5361	PASS
75	95	30	60	50.2	16334	PASS
95	95	100	100	100.0	32548	PASS
96	95	5	9	6.0	1954	PASS
173	174	0.00	2	1.0	238	PASS
174	95	50	100	73.9	24042	PASS
175	174	5	9	7.0	1677	PASS
176	174	95	101	96.5	23200	PASS
177	176	5	9	7.1	1657	PASS

Data File	Sample Number	Analysis Date:
2M186037.D	20 PPB	06/15/23 19:01
2M186038.D	CAL @ 20 PPB	06/15/23 19:21
2M186039.D	BLK	06/15/23 19:41
2M186040.D	BLK	06/15/23 20:01
2M186041.D	DAILY BLANK	06/15/23 20:21
2M186042.D	DAILY BLANK	06/15/23 20:41
2M186043.D	MBS109428	06/15/23 21:15
2M186044.D	MBS109429	06/15/23 21:35
2M186045.D	MBS109430	06/15/23 21:55
2M186046.D	AD38445-001(50X)	06/15/23 22:15
2M186047.D	AD38445-001(50X)	06/15/23 22:36
2M186048.D	AD38445-001(50X)	06/15/23 22:55
2M186049.D	AD38586-005	06/15/23 23:15
2M186050.D	AD38586-006	06/15/23 23:35
2M186051.D	AD38572-001	06/15/23 23:56
2M186052.D	AD38616-005	06/16/23 00:22
2M186053.D	AD38616-006	06/16/23 00:42
2M186054.D	AD38616-007	06/16/23 01:03
2M186055.D	AD38590-042	06/16/23 01:23
2M186056.D	AD38616-007	06/16/23 01:43
2M186057.D	AD38616-006	06/16/23 02:03
2M186058.D	BLK	06/16/23 02:23
2M186059.D	AD38616-004(20X)	06/16/23 02:43
2M186060.D	38590-044	06/16/23 03:03
2M186061.D	AD38616-003(20X)	06/16/23 03:23
2M186062.D	38590-046	06/16/23 03:43
2M186063.D	AD38616-002(20X)	06/16/23 04:03
2M186064.D	38590-048	06/16/23 04:23
2M186065.D	AD38616-001(200X	06/16/23 04:43
2M186066.D	38590-050	06/16/23 05:03
2M186067.D	38590-052	06/16/23 05:23
2M186068.D	AD38616-009(20X)	06/16/23 05:43
2M186069.D	38590-054	06/16/23 06:03
2M186070.D	AD38616-008(200X	06/16/23 06:23
2M186071.D	38590-056	06/16/23 06:43
2M186072.D	38590-058	06/16/23 07:03

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 6
Data File: 6M169559.D
Analysis Date: 06/16/23 09:06
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.367 to 7.373 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	18.7	10328	PASS
75	95	30	60	49.7	27391	PASS
95	95	100	100	100.0	55120	PASS
96	95	5	9	7.4	4095	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	63.0	34708	PASS
175	174	5	9	8.0	2764	PASS
176	174	95	101	98.9	34322	PASS
177	176	5	9	7.8	2663	PASS

Data File	Sample Number	Analysis Date:
6M169560.D	CAL @ 50 PPB	06/16/23 09:28
6M169561.D	50 PPB	06/16/23 09:50
6M169562.D	BLK	06/16/23 10:12
6M169563.D	BLK	06/16/23 10:35
6M169564.D	BLK	06/16/23 10:57
6M169565.D	DAILY BLANK	06/16/23 11:19
6M169566.D	AD38586-001	06/16/23 11:41
6M169567.D	AD38586-002	06/16/23 12:03
6M169568.D	AD38586-003	06/16/23 12:25
6M169569.D	AD38586-004	06/16/23 12:48
6M169570.D	STD	06/16/23 13:10
6M169571.D	AD38586-007(MS:	06/16/23 13:32
6M169572.D	AD38586-008(MSD	06/16/23 13:54
6M169573.D	MBS110001	06/16/23 14:17
6M169574.D	BLK	06/16/23 14:39
6M169575.D	AD38590-002	06/16/23 15:01
6M169576.D	AD38590-004	06/16/23 15:23
6M169577.D	AD38590-006	06/16/23 15:45
6M169578.D	AD38590-008	06/16/23 16:08
6M169579.D	AD38590-010	06/16/23 16:30
6M169580.D	AD38590-012	06/16/23 16:52
6M169581.D	AD38590-014	06/16/23 17:14
6M169582.D	AD38590-016	06/16/23 17:36
6M169583.D	AD38590-018	06/16/23 17:59
6M169584.D	AD38590-020	06/16/23 18:21
6M169585.D	AD38590-022	06/16/23 18:43
6M169586.D	AD38590-024	06/16/23 19:05
6M169587.D	AD38555-022	06/16/23 19:27
6M169588.D	AD38555-018	06/16/23 19:49
6M169589.D	BLK	06/16/23 20:11
6M169590.D	AD38590-004	06/16/23 20:34
6M169591.D	AD38557-002	06/16/23 20:56

FORM8

Internal Standard Areas

Evaluation Std Data File: 6M167857.D Method: EPA 8260D

Analysis Date/Time: 05/10/23 04:38

Lab File ID: CAL @20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	622746	5.12	441877	6.75	241542	8.04								
Eval File Area Limit:	311373-1245492		220938-883754		120771-483084									
Eval File Rt Limit:	4.62-5.62		6.25-7.25		7.54-8.54									

Data File	Sample#						
6M167849.D	BLK	688645	5.12	492837	6.75	269477	8.04
6M167853.D	CAL @ 0.5 PPB	582844	5.12	419684	6.75	227879	8.04
6M167854.D	CAL @ 1 PPB	592848	5.12	424807	6.75	228598	8.04
6M167855.D	CAL @ 5 PPB	590566	5.12	424241	6.75	231778	8.04
6M167856.D	CAL @ 2 PPB	586416	5.12	427531	6.75	230897	8.04
6M167857.D	CAL @20 PPB	622746	5.12	441877	6.75	241542	8.04
6M167858.D	CAL @ 50 PPB	608600	5.12	429928	6.75	239961	8.04
6M167859.D	CAL @ 100 PPB	628668	5.12	455392	6.75	245701	8.04
6M167860.D	CAL @ 250PPB	646013	5.12	481552	6.75	256754	8.04
6M167862.D	CAL @ 500 PPB	632893	5.12	482149	6.75	258431	8.04
6M167867.D	ICV	627637	5.12	443687	6.75	243585	8.04

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 2M185180.D Method: EPA 8260D

Analysis Date/Time: 05/26/23 22:39

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	301467	5.10	242237	6.73	128164	8.02								
Eval File Area Limit:	150734-602934		121118-484474		64082-256328									
Eval File Rt Limit:	4.6-5.6		6.23-7.23		7.52-8.52									
Data File Sample#														
2M185176.D CAL @ 0.5 PPB	305391	5.10	246968	6.73	125908	8.02								
2M185177.D CAL @1 PPB	304454	5.10	245072	6.73	129170	8.02								
2M185178.D CAL @ 5 PPB	304647	5.10	246113	6.73	130790	8.02								
2M185179.D CAL @10 PPB	307157	5.10	249305	6.73	131609	8.02								
2M185180.D CAL @ 20 PPB	301467	5.10	242237	6.73	128164	8.02								
2M185181.D CAL @ 50 PPB	297065	5.10	238975	6.73	125539	8.02								
2M185182.D CAL @100 PPB	297454	5.10	240455	6.73	128474	8.02								
2M185183.D CAL @250 PPB	295082	5.10	247487	6.73	129018	8.02								
2M185184.D CAL @500 PPB	282062	5.10	236574	6.73	127833	8.03								
2M185189.D ICV	285881	5.10	228816	6.73	118194	8.02								

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 2M186038.D Method: EPA 8260D

Analysis Date/Time: 06/15/23 19:21

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	407518	5.10	343937	6.73	169717	8.02								
Eval File Area Limit:	203759-815036		171968-687874		84858-339434									
Eval File Rt Limit:	4.6-5.6		6.23-7.23		7.52-8.52									
Data File	Sample#													
2M186037.D	20 PPB	382878	5.10	326994	6.73	160305	8.02							
2M186039.D	BLK	410911	5.10	345298	6.73	164960	8.02							
2M186040.D	BLK	406982	5.10	337756	6.73	164107	8.02							
2M186041.D	DAILY BLANK	396152	5.09	342177	6.73	165288	8.02							
2M186042.D	DAILY BLANK	405704	5.10	346123	6.73	165603	8.02							
2M186043.D	MBS109428	389979	5.10	332651	6.73	163877	8.02							
2M186044.D	MBS109429	379585	5.10	319024	6.73	155316	8.02							
2M186045.D	MBS109430	363460	5.10	308903	6.73	155924	8.02							
2M186046.D	AD38445-001(50X)(T:	355656	5.10	301592	6.73	142246	8.02							
2M186047.D	AD38445-001(50X)(T:	389344	5.10	329017	6.73	161176	8.02							
2M186048.D	AD38445-001(50X)(T)	380256	5.10	325398	6.73	159982	8.02							
2M186049.D	AD38586-005	372173	5.10	318436	6.73	156214	8.02							
2M186050.D	AD38586-006	370181	5.10	319907	6.73	154689	8.02							
2M186051.D	AD38572-001	341851	5.09	293125	6.73	144231	8.02							
2M186055.D	AD38590-042	331160	5.09	284302	6.73	145576	8.02							
2M186058.D	BLK	374233	5.10	322220	6.73	157356	8.02							
2M186060.D	38590-044	340765	5.09	296548	6.73	146444	8.02							
2M186062.D	38590-046	339103	5.09	292315	6.73	148720	8.02							
2M186064.D	38590-048	339608	5.09	296195	6.73	149405	8.02							
2M186066.D	38590-050	327634	5.09	279242	6.73	140803	8.02							
2M186067.D	38590-052	331666	5.09	284227	6.73	145443	8.02							
2M186069.D	38590-054	329479	5.09	286434	6.73	142287	8.02							
2M186071.D	38590-056	346887	5.09	302456	6.73	152530	8.02							
2M186072.D	38590-058	349346	5.09	299098	6.73	152755	8.02							

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 6M169560.D Method: EPA 8260D

Analysis Date/Time: 06/16/23 09:28

Lab File ID: CAL @ 50 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	442839	5.12	359775	6.75	205933	8.04								
Eval File Area Limit:	221420-885678		179888-719550		102966-411866									
Eval File Rt Limit:	4.62-5.62		6.25-7.25		7.54-8.54									

Data File	Sample#						
6M169561.D	50 PPB	452764	5.12	357810	6.75	205898	8.04
6M169562.D	BLK	429783	5.12	359049	6.75	190442	8.04
6M169563.D	BLK	424770	5.12	362374	6.75	194193	8.04
6M169564.D	BLK	422765	5.12	357615	6.75	185602	8.04
6M169565.D	DAILY BLANK	412938	5.12	348759	6.75	181321	8.04
6M169566.D	AD38586-001	299919	5.12	159385A	6.75	42070A	8.04
6M169567.D	AD38586-002	345845	5.12	214556	6.75	60475A	8.04
6M169568.D	AD38586-003	343337	5.12	236807	6.75	69248A	8.04
6M169569.D	AD38586-004	389157	5.12	320336	6.75	141993	8.04
6M169570.D	STD	452150	5.12	356646	6.75	206143	8.04
6M169571.D	AD38586-007(MS:AD	385090	5.12	244542	6.75	86499A	8.04
6M169572.D	AD38586-008(MSD:A	373515	5.12	202544	6.75	61383A	8.04
6M169573.D	MBS110001	449260	5.12	359955	6.75	208522	8.04
6M169574.D	BLK	409346	5.12	350257	6.75	182498	8.04
6M169575.D	AD38590-002	373171	5.12	285356	6.75	143239	8.04
6M169576.D	AD38590-004	399984	5.12	337884	6.75	176020	8.04
6M169577.D	AD38590-006	401987	5.12	343417	6.75	182307	8.04
6M169578.D	AD38590-008	405990	5.12	349234	6.75	189407	8.04
6M169579.D	AD38590-010	393855	5.12	330480	6.75	167249	8.04
6M169580.D	AD38590-012	392528	5.12	331360	6.75	179157	8.04
6M169581.D	AD38590-014	391649	5.12	335725	6.75	177346	8.04
6M169582.D	AD38590-016	388168	5.12	336938	6.75	178511	8.04
6M169583.D	AD38590-018	409877	5.12	347909	6.75	188977	8.04
6M169584.D	AD38590-020	377889	5.12	330515	6.75	171249	8.04
6M169585.D	AD38590-022	389946	5.12	338197	6.75	181834	8.04
6M169586.D	AD38590-024	406119	5.12	346543	6.75	183826	8.04
6M169587.D	AD38555-022	387697	5.12	334584	6.75	177129	8.04
6M169588.D	AD38555-018	389143	5.12	333351	6.75	171701	8.04
6M169589.D	BLK	407635	5.12	345205	6.75	179468	8.04
6M169590.D	AD38590-004	400548	5.12	341157	6.75	181517	8.04
6M169591.D	AD38557-002	406901	5.12	341320	6.75	179498	8.04

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

GC/MS Volatile Data
Sample Data

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38586-001
Client Id: HB-1 +QA\QC
Data File: 6M169566.D
Analysis Date: 06/16/23 11:41
Date Rec/Extracted: 06/14/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 4.56g
Final Vol: NA
Dilution: 1.10
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0026	U	56-23-5	Carbon Tetrachloride	0.0026	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0026	U	108-90-7	Chlorobenzene	0.0026	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0026	U	75-00-3	Chloroethane	0.0026	U
79-00-5	1,1,2-Trichloroethane	0.0026	U	67-66-3	Chloroform	0.0026	U
75-34-3	1,1-Dichloroethane	0.0026	U	74-87-3	Chloromethane	0.0026	U
75-35-4	1,1-Dichloroethene	0.0026	U	156-59-2	cis-1,2-Dichloroethene	0.0026	U
87-61-6	1,2,3-Trichlorobenzene	0.0026	U	10061-01-5	cis-1,3-Dichloropropene	0.0026	U
120-82-1	1,2,4-Trichlorobenzene	0.0026	U	110-82-7	Cyclohexane	0.0026	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0026	U	124-48-1	Dibromochloromethane	0.0026	U
106-93-4	1,2-Dibromoethane	0.00086	U	75-71-8	Dichlorodifluoromethane	0.0026	U
95-50-1	1,2-Dichlorobenzene	0.0026	U	100-41-4	Ethylbenzene	0.0013	U
107-06-2	1,2-Dichloroethane	0.0026	U	98-82-8	Isopropylbenzene	0.0013	U
78-87-5	1,2-Dichloropropane	0.0026	U	79601-23-1	m&p-Xylenes	0.0019	U
541-73-1	1,3-Dichlorobenzene	0.0026	U	79-20-9	Methyl Acetate	0.0026	U
106-46-7	1,4-Dichlorobenzene	0.0026	U	108-87-2	Methylcyclohexane	0.0026	U
123-91-1	1,4-Dioxane	0.13	U	75-09-2	Methylene Chloride	0.0026	U
78-93-3	2-Butanone	0.0026	U	1634-04-4	Methyl-t-butyl ether	0.0013	U
591-78-6	2-Hexanone	0.0026	U	95-47-6	o-Xylene	0.0013	U
108-10-1	4-Methyl-2-Pentanone	0.0026	U	100-42-5	Styrene	0.0026	U
67-64-1	Acetone	0.013	U	127-18-4	Tetrachloroethene	0.0026	U
71-43-2	Benzene	0.0013	U	108-88-3	Toluene	0.0013	U
74-97-5	Bromochloromethane	0.0026	U	156-60-5	trans-1,2-Dichloroethene	0.0026	U
75-27-4	Bromodichloromethane	0.0026	U	10061-02-6	trans-1,3-Dichloropropene	0.0026	U
75-25-2	Bromoform	0.0026	U	79-01-6	Trichloroethene	0.0026	U
74-83-9	Bromomethane	0.0026	U	75-69-4	Trichlorofluoromethane	0.0026	U
75-15-0	Carbon Disulfide	0.0026	U	75-01-4	Vinyl Chloride	0.0026	U
1330-20-7	Xylenes (Total)	0.0013	U				

Worksheet #: 696297

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

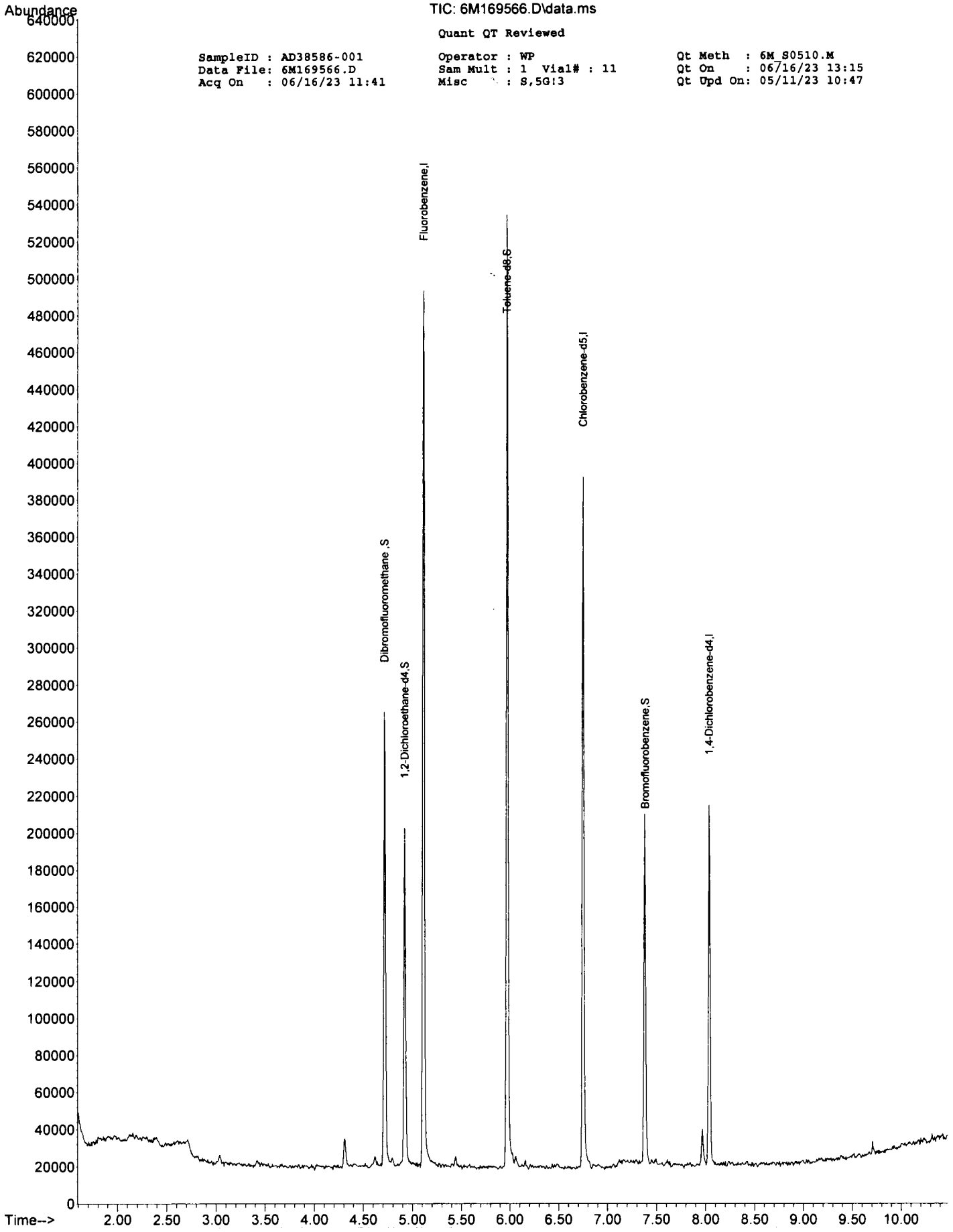
Quantitation Report (QT Reviewed)

SampleID : AD38586-001 Operator : WP Qt Meth : 6M_S0510.M
Data File: 6M169566.D Sam Mult : 1 Vial# : 11 Qt On : 06/16/23 13:15
Acq On : 06/16/23 11:41 Misc : S,5G!3 Qt Upd On: 05/11/23 10:47

Data Path : G:\GcMsData\2023\GCMS_6\Data\06-16-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.117	96	299919	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.751	117	159385	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.037	152	42070	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.715	111	100450	37.28	ug/l	0.00
Spiked Amount 30.000			Recovery =	124.27%		
39) 1,2-Dichloroethane-d4	4.922	67	44221	31.07	ug/l	0.00
Spiked Amount 30.000			Recovery =	103.57%		
66) Toluene-d8	5.971	98	251103	36.30	ug/l	0.00
Spiked Amount 30.000			Recovery =	121.00%		
76) Bromofluorobenzene	7.385	174	42646	40.79	ug/l	0.00
Spiked Amount 30.000			Recovery =	135.97%		
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M169566.D\data.ms
Quant QT Reviewed
SampleID : AD38586-001
Data File: 6M169566.D
Acq On : 06/16/23 11:41
Operator : WP
Sam Mult : 1 Vial# : 11
Misc : S,5G!3
Qt Meth : 6M_S0510.M
Qt On : 06/16/23 13:15
Qt Upd On: 05/11/23 10:47
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38586-002
Client Id: DUP
Data File: 6M169567.D
Analysis Date: 06/16/23 12:03
Date Rec/Extracted: 06/14/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 4.14g
Final Vol: NA
Dilution: 1.21
Solids: 73

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0033	U	56-23-5	Carbon Tetrachloride	0.0033	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0033	U	108-90-7	Chlorobenzene	0.0033	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0033	U	75-00-3	Chloroethane	0.0033	U
79-00-5	1,1,2-Trichloroethane	0.0033	U	67-66-3	Chloroform	0.0033	U
75-34-3	1,1-Dichloroethane	0.0033	U	74-87-3	Chloromethane	0.0033	U
75-35-4	1,1-Dichloroethene	0.0033	U	156-59-2	cis-1,2-Dichloroethene	0.0033	U
87-61-6	1,2,3-Trichlorobenzene	0.0033	U	10061-01-5	cis-1,3-Dichloropropene	0.0033	U
120-82-1	1,2,4-Trichlorobenzene	0.0033	U	110-82-7	Cyclohexane	0.0033	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0033	U	124-48-1	Dibromochloromethane	0.0033	U
106-93-4	1,2-Dibromoethane	0.0011	U	75-71-8	Dichlorodifluoromethane	0.0033	U
95-50-1	1,2-Dichlorobenzene	0.0033	U	100-41-4	Ethylbenzene	0.0017	U
107-06-2	1,2-Dichloroethane	0.0033	U	98-82-8	Isopropylbenzene	0.0017	U
78-87-5	1,2-Dichloropropane	0.0033	U	79601-23-1	m&p-Xylenes	0.0024	U
541-73-1	1,3-Dichlorobenzene	0.0033	U	79-20-9	Methyl Acetate	0.0033	U
106-46-7	1,4-Dichlorobenzene	0.0033	U	108-87-2	Methylcyclohexane	0.0033	U
123-91-1	1,4-Dioxane	0.17	U	75-09-2	Methylene Chloride	0.0033	U
78-93-3	2-Butanone	0.0033	U	1634-04-4	Methyl-t-butyl ether	0.0017	U
591-78-6	2-Hexanone	0.0033	U	95-47-6	o-Xylene	0.0017	U
108-10-1	4-Methyl-2-Pentanone	0.0033	U	100-42-5	Styrene	0.0033	U
67-64-1	Acetone	0.017	U	127-18-4	Tetrachloroethene	0.0033	U
71-43-2	Benzene	0.0017	U	108-88-3	Toluene	0.0017	U
74-97-5	Bromochloromethane	0.0033	U	156-60-5	trans-1,2-Dichloroethene	0.0033	U
75-27-4	Bromodichloromethane	0.0033	U	10061-02-6	trans-1,3-Dichloropropene	0.0033	U
75-25-2	Bromoform	0.0033	U	79-01-6	Trichloroethene	0.0033	U
74-83-9	Bromomethane	0.0033	U	75-69-4	Trichlorofluoromethane	0.0033	U
75-15-0	Carbon Disulfide	0.0033	U	75-01-4	Vinyl Chloride	0.0033	U
1330-20-7	Xylenes (Total)	0.0017	U				

Worksheet #: 696297

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used.
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

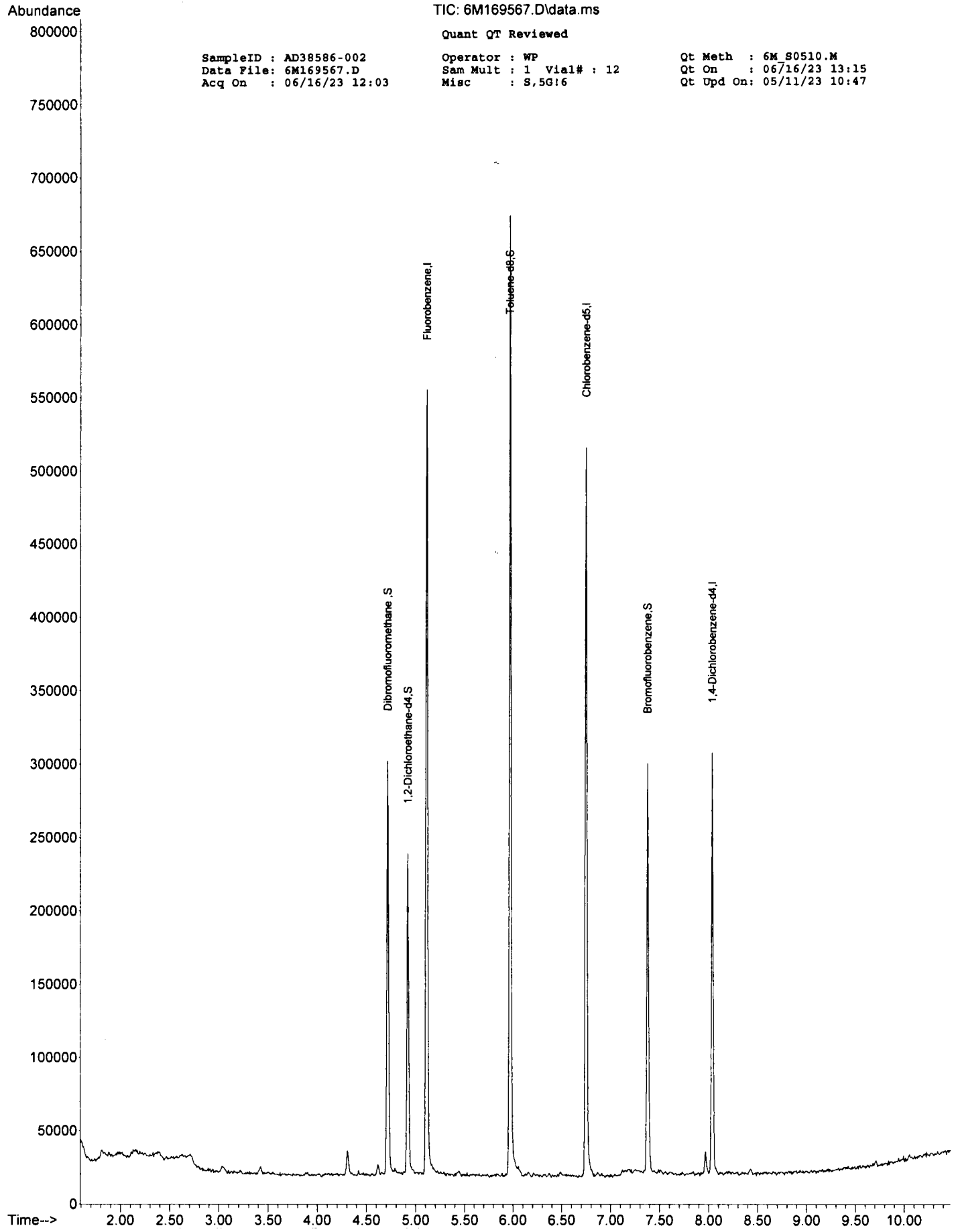
Quantitation Report (QT Reviewed)

SampleID : AD38586-002 Operator : WP Qt Meth : 6M_S0510.M
Data File: 6M169567.D Sam Mult : 1 Vial# : 12 Qt On : 06/16/23 13:15
Acq On : 06/16/23 12:03 Misc : S,5G!6 Qt Upd On: 05/11/23 10:47

Data Path : G:\GcMsData\2023\GCMS_6\Data\06-16-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.117	96	345845	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.751	117	214556	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.037	152	60475	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.715	111	115745	37.26	ug/l	0.00
Spiked Amount 30.000			Recovery = 124.20%			
39) 1,2-Dichloroethane-d4	4.922	67	54087	32.96	ug/l	0.00
Spiked Amount 30.000			Recovery = 109.87%			
66) Toluene-d8	5.971	98	313412	33.66	ug/l	0.00
Spiked Amount 30.000			Recovery = 112.20%			
76) Bromofluorobenzene	7.379	174	60764	40.43	ug/l	0.00
Spiked Amount 30.000			Recovery = 134.77%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M169567.D\data.ms
Quant QT Reviewed
SampleID : AD38586-002
Data File: 6M169567.D
Acq On : 06/16/23 12:03
Operator : WP
Sam Mult : 1 Vial# : 12
Misc : S,5G:6
Qt Meth : 6M_S0510.M
Qt On : 06/16/23 13:15
Qt Upd On: 05/11/23 10:47
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38586-005
Client Id: OutbuildingSump
Data File: 2M186049.D
Analysis Date: 06/15/23 23:15
Date Rec/Extracted: 06/14/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	0.74	U
75-34-3	1,1-Dichloroethane	0.81	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	0.80	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	0.68	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.66	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	0.74	U	156-60-5	trans-1,2-Dichloroethene	0.68	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 696297

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

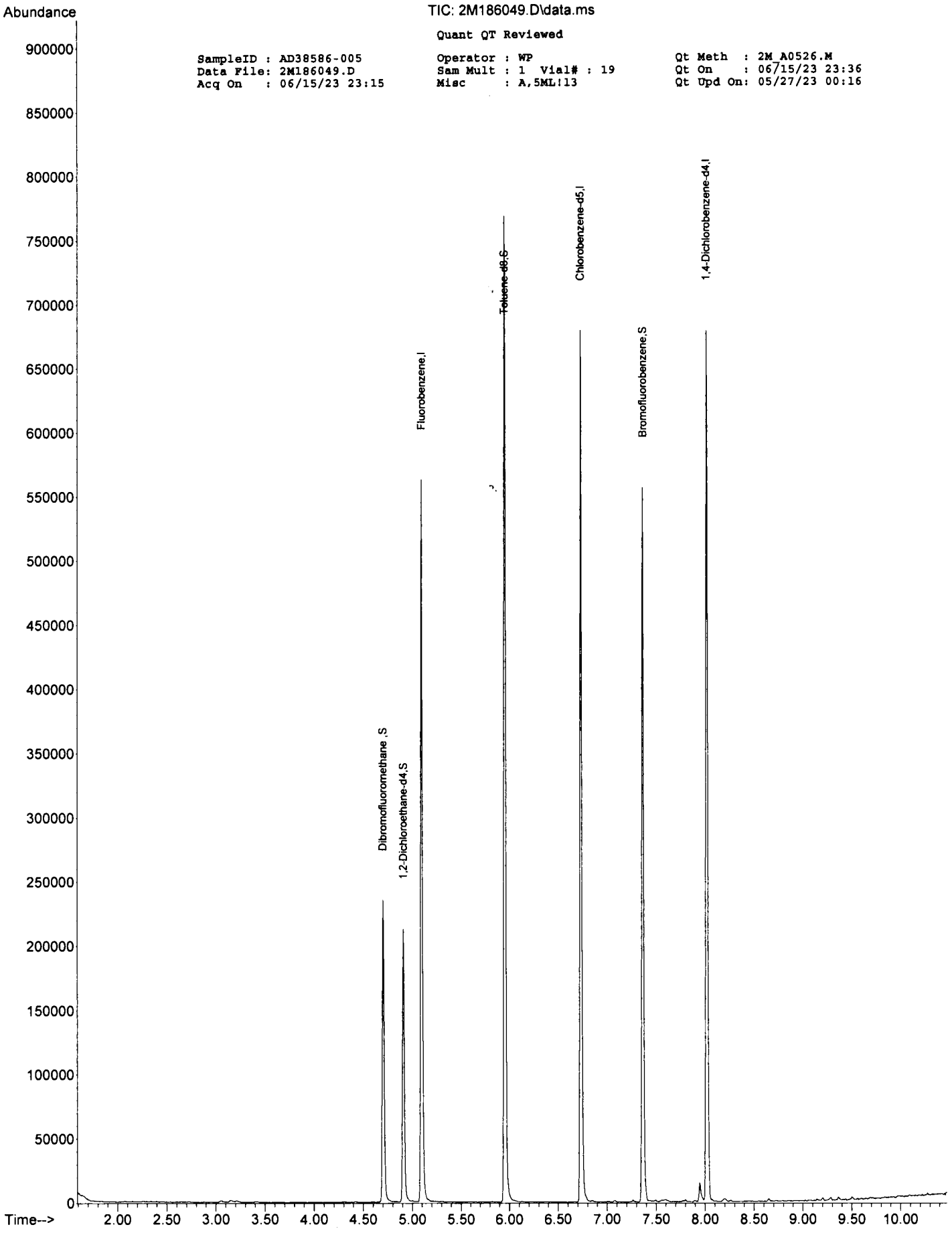
Quantitation Report (QT Reviewed)

SampleID : AD38586-005 Operator : WP Qt Meth : 2M_A0526.M
Data File: 2M186049.D Sam Mult : 1 Vial# : 19 Qt On : 06/15/23 23:36
Acq On : 06/15/23 23:15 Misc : A,5ML!13 Qt Upd On: 05/27/23 00:16

Data Path : G:\GcMsData\2023\GCMS_2\Data\06-15-23\
Qt Path : G:\GcMsData\2023\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.099	96	372173	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.733	117	318436	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	156214	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.703	111	95423	27.91	ug/l	0.00
Spiked Amount 30.000			Recovery = 93.03%			
39) 1,2-Dichloroethane-d4	4.910	67	52498	28.68	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.60%			
66) Toluene-d8	5.952	98	392067	30.20	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.67%			
76) Bromofluorobenzene	7.367	174	133971	29.42	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.07%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M186049.D\data.ms
Quant QT Reviewed
SampleID : AD38586-005
Data File: 2M186049.D
Acq On : 06/15/23 23:15
Operator : WP
Sam Mult : 1 Vial# : 19
Misc : A,5ML;13
Qt Meth : 2M_A0526.M
Qt On : 06/15/23 23:36
Qt Upd On: 05/27/23 00:16
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
900000
850000
800000
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
Time-->
2.00
2.50
3.00
3.50
4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
8.00
8.50
9.00
9.50
10.00

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38586-006
Client Id: TW-1
Data File: 2M186050.D
Analysis Date: 06/15/23 23:35
Date Rec/Extracted: 06/14/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	0.74	U
75-34-3	1,1-Dichloroethane	0.81	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	0.80	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	0.68	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.66	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	**Acetone**	**5.0**	**6.7**	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	0.74	U	156-60-5	trans-1,2-Dichloroethene	0.68	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 696297

Total Target Concentration 6.7

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

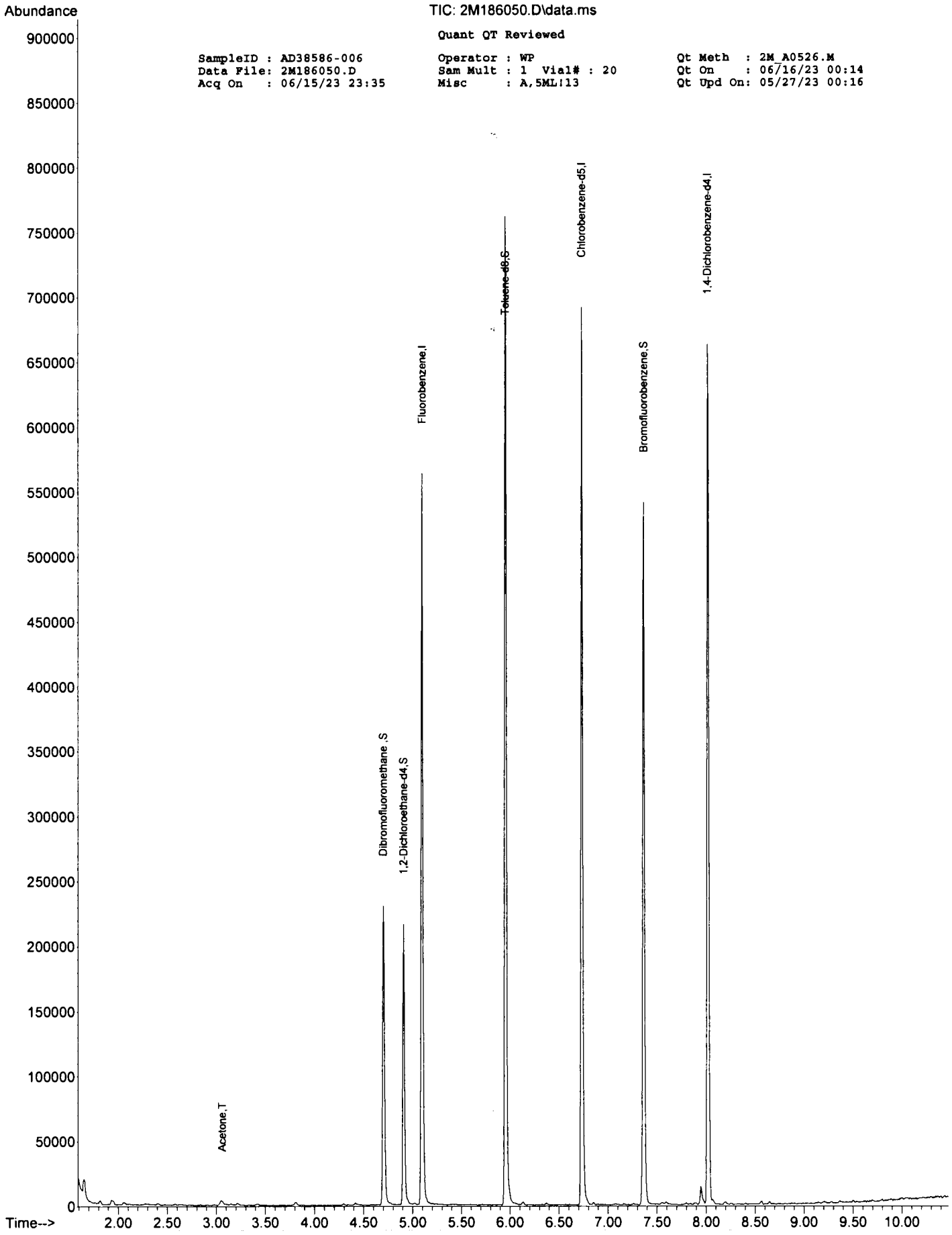
Quantitation Report (QT Reviewed)

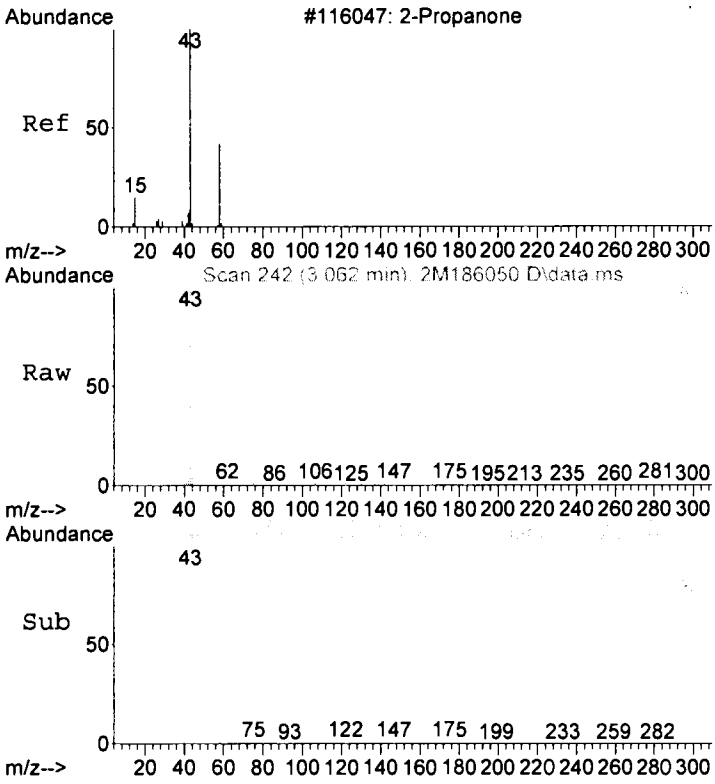
SampleID : AD38586-006 Operator : WP Qt Meth : 2M_A0526.M
Data File: 2M186050.D Sam Mult : 1 Vial# : 20 Qt On : 06/16/23 00:14
Acq On : 06/15/23 23:35 Misc : A,5ML!13 Qt Upd On: 05/27/23 00:16

Data Path : G:\GcMsData\2023\GCMS_2\Data\06-15-23\
Qt Path : G:\GcMsData\2023\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.099	96	370181	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.733	117	319907	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	154689	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.702	111	96201	28.29	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.30%			
39) 1,2-Dichloroethane-d4	4.910	67	52561	28.87	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.23%			
66) Toluene-d8	5.952	98	387095	29.68	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.93%			
76) Bromofluorobenzene	7.367	174	133083	29.52	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.40%			
Target Compounds						Qvalue
19) Acetone	3.062	43	6085m	6.6717	ug/l	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

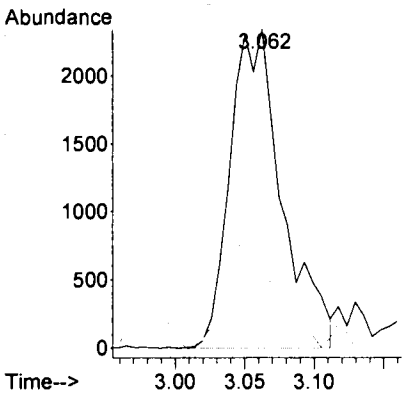

Abundance
TIC: 2M186050.D\data.ms
Quant QT Reviewed
SampleID : AD38586-006
Data File: 2M186050.D
Acq On : 06/15/23 23:35
Operator : WP
Sam Mult : 1 Vial# : 20
Misc : A,5ML;13
Qt Meth : 2M_A0526.M
Qt On : 06/16/23 00:14
Qt Upd On: 05/27/23 00:16
900000
850000
800000
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
Time-->
2.00
2.50
3.00
3.50
4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
8.00
8.50
9.00
9.50
10.00
Acetone,T
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I



#19
Acetone
Concen: 6.67 ug/l m
RT: 3.062 min Scan# 242
Delta R.T. 0.018 min
Lab File: 2M186050.D
Acq: 15 Jun 2023 23:35

Tgt Ion: 43 Resp: 6085

Ion	Ratio	Lower	Upper
43	100		
58	28.6	0.0	71.6



Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38586-007(MS:AD38
Client Id: HB-1 +QA\QC MS
Data File: 6M169571.D
Analysis Date: 06/16/23 13:32
Date Rec/Extracted: 06/14/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 4.13g
Final Vol: NA
Dilution: 1.21
Solids: 82

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0030	0.048	56-23-5	Carbon Tetrachloride	0.0030	0.042
79-34-5	1,1,2,2-Tetrachloroethane	0.0030	0.016	108-90-7	Chlorobenzene	0.0030	0.0042
76-13-1	1,1,2-Trichloro-1,2,2-triflu	0.0030	0.051	75-00-3	Chloroethane	0.0030	0.036
79-00-5	1,1,2-Trichloroethane	0.0030	0.012	67-66-3	Chloroform	0.0030	0.023
75-34-3	1,1-Dichloroethane	0.0030	0.033	74-87-3	Chloromethane	0.0030	0.050
75-35-4	1,1-Dichloroethene	0.0030	0.031	156-59-2	cis-1,2-Dichloroethene	0.0030	0.015
87-61-6	1,2,3-Trichlorobenzene	0.0030	0.0014 J	10061-01-5	cis-1,3-Dichloropropene	0.0030	0.0033
120-82-1	1,2,4-Trichlorobenzene	0.0030	0.0011 J	110-82-7	Cyclohexane	0.0030	0.039
96-12-8	1,2-Dibromo-3-Chloroprop	0.0030	0.0065	124-48-1	Dibromochloromethane	0.0030	0.0083
106-93-4	1,2-Dibromoethane	0.00096	0.0024	75-71-8	Dichlorodifluoromethane	0.0030	0.067
95-50-1	1,2-Dichlorobenzene	0.0030	0.0024 J	100-41-4	Ethylbenzene	0.0015	0.012
107-06-2	1,2-Dichloroethane	0.0030	0.0082	98-82-8	Isopropylbenzene	0.0015	0.019
78-87-5	1,2-Dichloropropane	0.0030	0.022	79601-23-1	m&p-Xylenes	0.0022	0.022
541-73-1	1,3-Dichlorobenzene	0.0030	0.0024 J	79-20-9	Methyl Acetate	0.0030	0.027
106-46-7	1,4-Dichlorobenzene	0.0030	0.0017 J	108-87-2	Methylcyclohexane	0.0030	0.030
123-91-1	1,4-Dioxane	0.15	1.9	75-09-2	Methylene Chloride	0.0030	0.019
78-93-3	2-Butanone	0.0030	0.025	1634-04-4	Methyl-t-butyl ether	0.0015	0.045
591-78-6	2-Hexanone	0.0030	0.0072	95-47-6	o-Xylene	0.0015	0.014
108-10-1	4-Methyl-2-Pentanone	0.0030	0.020	100-42-5	Styrene	0.0030	0.0033
67-64-1	Acetone	0.015	0.19	127-18-4	Tetrachloroethene	0.0030	0.018
71-43-2	Benzene	0.0015	0.022	108-88-3	Toluene	0.0015	0.013
74-97-5	Bromochloromethane	0.0030	0.0094	156-60-5	trans-1,2-Dichloroethene	0.0030	0.014
75-27-4	Bromodichloromethane	0.0030	0.013	10061-02-6	trans-1,3-Dichloropropene	0.0030	0.0017 J
75-25-2	Bromoform	0.0030	0.0079	79-01-6	Trichloroethene	0.0030	0.011
74-83-9	Bromomethane	0.0030	0.021	75-69-4	Trichlorofluoromethane	0.0030	0.048
75-15-0	Carbon Disulfide	0.0030	0.017	75-01-4	Vinyl Chloride	0.0030	0.040
1330-20-7	Xylenes (Total)	0.0015	0.036				

Worksheet #: 696297

Total Target Concentration 3.1

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

SampleID : AD38586-007(MS:AD38 Operator : WP Qt Meth : 6M_S0510.M
Data File: 6M169571.D Sam Mult : 1 Vial# : 16 Qt On : 06/16/23 17:27
Acq On : 06/16/23 13:32 Misc : S,5G!5 Qt Upd On: 05/11/23 10:47

Data Path : G:\GcMsData\2023\GCMS_6\Data\06-16-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.117	96	385090	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.750	117	244542	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.037	152	86499m	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.714	111	114333	33.05	ug/l	0.00
Spiked Amount 30.000			Recovery = 110.17%			
39) 1,2-Dichloroethane-d4	4.922	67	51703	28.30	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.33%			
66) Toluene-d8	5.970	98	356841	33.62	ug/l	0.00
Spiked Amount 30.000			Recovery = 112.07%			
76) Bromofluorobenzene	7.385	174	83282	38.74	ug/l	0.00
Spiked Amount 30.000			Recovery = 129.13%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.648	51	113217	47.5405	ug/l	57
6) Dichlorodifluoromethane	1.636	85	90094	45.1509	ug/l	100
7) Chloromethane	1.812	50	109045	33.7443	ug/l	99
8) Bromomethane	2.227	94	22578	13.9801	ug/l	97
9) Vinyl Chloride	1.916	62	71054	27.3674	ug/l	98
10) Chloroethane	2.318	64	42812	24.4298	ug/l	88
11) Trichlorofluoromethane	2.550	101	104089m	32.3878	ug/l	
12) Ethyl ether	2.794	59	39012m	17.1939	ug/l	
13) Furan	2.837	39	67663m	19.7461	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	3.007	101	62224m	34.3224	ug/l	
15) Methylene Chloride	3.422	84	36243m	13.0288	ug/l	
16) Acrolein	2.910	56	29793m	60.0346	ug/l	
17) Acrylonitrile	3.623	53	7242m	6.8249	ug/l	
18) Iodomethane	3.154	142	6254m	3.7191	ug/l	
19) Acetone	3.038	43	101892m	130.9180	ug/l	
20) Carbon Disulfide	3.221	76	66253m	11.2664	ug/l	
21) t-Butyl Alcohol	3.483	59	41002m	135.7447	ug/l	
22) n-Hexane	3.897	57	36013m	15.1392	ug/l	
23) Di-isopropyl-ether	4.050	45	180604m	26.9381	ug/l	
24) 1,1-Dichloroethene	3.013	61	64510m	21.3125	ug/l	
25) Methyl Acetate	3.324	43	43082m	18.1317	ug/l	
26) Methyl-t-butyl ether	3.660	73	179748m	30.4895	ug/l	
27) 1,1-Dichloroethane	4.013	63	94762m	22.5476	ug/l	
28) trans-1,2-Dichloroethene	3.666	96	20828m	9.1793	ug/l	
29) Ethyl-t-butyl ether	4.050	59	22037m	26.0405	ug/l	
30) cis-1,2-Dichloroethene	4.428	61	41576m	9.8448	ug/l	
31) Bromochloromethane	4.580	49	13776m	6.3514	ug/l	
32) 2,2-Dichloropropane	4.434	77	95552m	33.0386	ug/l	
33) Ethyl acetate	4.452	43	18630m	6.5826	ug/l	
34) 1,4-Dioxane	5.507	88	50808m	1255.3855	ug/l	
35) 1,1-Dichloropropene	4.842	75	33555m	11.1010	ug/l	
36) Chloroform	4.617	83	72426m	15.3977	ug/l	
38) Cyclohexane	4.794	56	75374m	26.5214	ug/l	
40) 1,2-Dichloroethane	4.964	62	20310m	5.5723	ug/l	
41) 2-Butanone	4.422	43	22530m	16.9348	ug/l	
42) 1,1,1-Trichloroethane	4.751	97	109349m	32.2803	ug/l	
43) Carbon Tetrachloride	4.854	117	85612m	28.5979	ug/l	
44) Vinyl Acetate	4.050	43	90592m	14.1938	ug/l	
45) Bromodichloromethane	5.580	83	33138m	8.6875	ug/l	
46) Methylcyclohexane	5.440	83	64495m	20.3125	ug/l	
47) Dibromomethane	5.513	174	6654m	3.3909	ug/l	
48) 1,2-Dichloropropane	5.440	63	39383m	14.5681	ug/l	
49) Trichloroethene	5.324	130	18574m	7.1499	ug/l	
50) Benzene	4.964	78	143307m	14.6976	ug/l	
51) tert-Amyl methyl ether	5.013	73	158677m	28.7591	ug/l	
53) Iso-propylacetate	4.964	43	58207m	13.9442	ug/l	
54) Methyl methacrylate	5.470	41	15574m	8.0384	ug/l	
55) Dibromochloromethane	6.433	129	15612	5.6532	ug/l	92
56) 2-Chloroethylvinylether	5.720	63	297	39.3087	ug/l	56
57) cis-1,3-Dichloropropene	5.818	75	8102m	2.2223	ug/l	
58) trans-1,3-Dichloropropene	6.104	75	3802m	1.1424	ug/l	
59) Ethyl methacrylate	6.123	41	7679m	3.6580	ug/l	
60) 1,1,2-Trichloroethane	6.208	97	18989m	8.2029	ug/l	
61) 1,2-Dibromoethane	6.513	107	3893m	1.5936	ug/l	
62) 1,3-Dichloropropane	6.305	76	14692m	3.7651	ug/l	
63) 4-Methyl-2-Pentanone	5.885	43	30763m	13.7231	ug/l	
64) 2-Hexanone	6.318	43	8089m	4.8475	ug/l	
65) Tetrachloroethene	6.312	164	20659m	12.3399	ug/l	
67) Toluene	6.007	92	48652m	8.9478	ug/l	

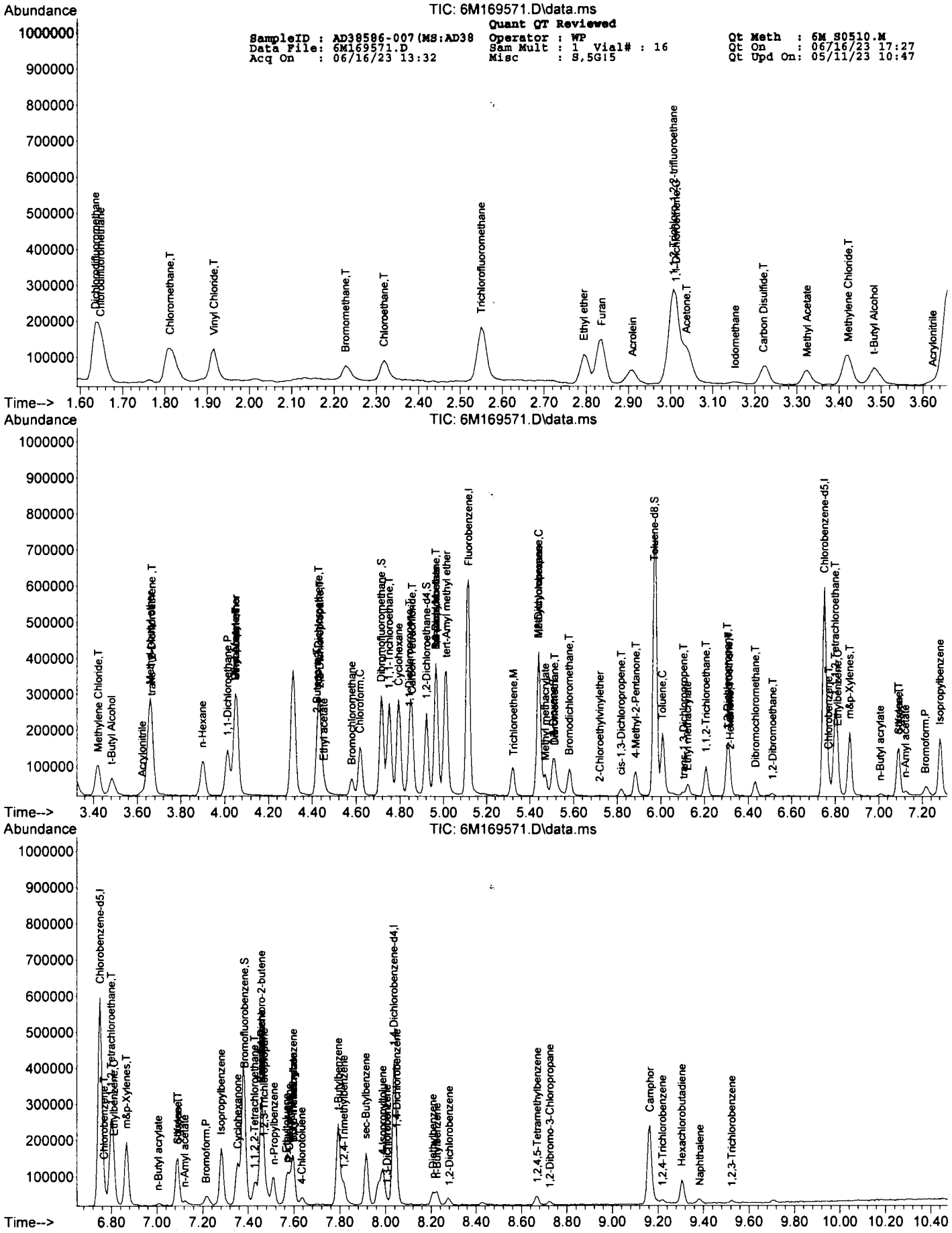
Quantitation Report (QT Reviewed)

SampleID : AD38586-007(MS:AD38 Operator : WP Qt Meth : 6M_S0510.M
Data File: 6M169571.D Sam Mult : 1 Vial# : 16 Qt On : 06/16/23 17:27
Acq On : 06/16/23 13:32 Misc : S,5G!5 Qt Upd On: 05/11/23 10:47

Data Path : G:\GcMsData\2023\GCMS_6\Data\06-16-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.799	133	34922m	15.3799	ug/l	
69)	Chlorobenzene	6.769	112	17946m	2.8648	ug/l	
71)	n-Butyl acrylate	7.007	55	2819m	1.0311	ug/l	
72)	n-Amyl acetate	7.122	43	2844m	1.1640	ug/l	
73)	Bromoform	7.214	173	7118m	5.3588	ug/l	
74)	Ethylbenzene	6.811	106	13050m	8.1384	ug/l	
75)	1,1,2,2-Tetrachloroethane	7.427	83	23289m	10.5184	ug/l	
77)	Styrene	7.092	104	9235m	2.2339	ug/l	
78)	m&p-Xylenes	6.866	106	35459m	14.8587	ug/l	
79)	o-Xylene	7.092	106	23936m	9.6305	ug/l	
80)	trans-1,4-Dichloro-2-b...	7.458	53	7696m	10.5554	ug/l	
81)	1,3-Dichlorobenzene	8.006	146	5138m	1.6124	ug/l	
82)	1,4-Dichlorobenzene	8.049	146	3606m	1.1396	ug/l	
83)	1,2-Dichlorobenzene	8.281	146	5159m	1.6359	ug/l	
84)	Isopropylbenzene	7.281	105	72054m	13.2035	ug/l	
85)	Cyclohexanone	7.354	55	34683m	393.5367	ug/l	
86)	Camphene	7.458	93	55245m	29.2387	ug/l	
87)	1,2,3-Trichloropropane	7.470	75	14894m	5.9949	ug/l	
88)	2-Chlorotoluene	7.580	91	21762m	5.5762	ug/l	
89)	p-Ethyltoluene	7.567	105	29083	5.0368	ug/l	97
90)	4-Chlorotoluene	7.635	91	6993m	1.9134	ug/l	
91)	n-Propylbenzene	7.513	91	43482m	6.6602	ug/l	
92)	Bromobenzene	7.458	77	25277m	6.0040	ug/l	
93)	1,3,5-Trimethylbenzene	7.598	105	47043m	10.5254	ug/l	
94)	Butyl methacrylate	7.598	41	2920m	1.6833	ug/l	
95)	t-Butylbenzene	7.793	119	81364m	17.5224	ug/l	
96)	1,2,4-Trimethylbenzene	7.817	105	26383m	5.4725	ug/l	
97)	sec-Butylbenzene	7.915	105	70469m	12.4166	ug/l	
98)	4-Isopropyltoluene	7.988	119	41966m	6.9637	ug/l	
99)	n-Butylbenzene	8.226	91	15190m	2.8321	ug/l	
100)	p-Diethylbenzene	8.208	119	8223m	2.9187	ug/l	
101)	1,2,4,5-Tetramethylben...	8.671	119	9440m	2.0168	ug/l	
102)	1,2-Dibromo-3-Chloropr...	8.726	157	2273m	4.3905	ug/l	
103)	Camphor	9.165	95	43238m	217.0234	ug/l	
104)	Hexachlorobutadiene	9.305	225	9206m	9.7200	ug/l	
105)	1,2,4-Trichlorobenzene	9.220	180	1503m	0.7621	ug/l	
106)	1,2,3-Trichlorobenzene	9.524	180	1863m	0.9683	ug/l	
107)	Naphthalene	9.384	128	7317m	1.3613	ug/l	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M169571.D\data.ms
Quant QT Reviewed
SampleID : AD38586-007(MS:AD38
Data File: 6M169571.D
Acq On : 06/16/23 13:32
Operator : WP
Sam Mult : 1 Vial# : 16
Misc : S,5G15
Qt Meth : 6M_S0510.M
Qt On : 06/16/23 17:27
Qt Upd On: 05/11/23 10:47
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
Time-->

Abundance
TIC: 6M169571.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Bromochloromethane
Chloroform,C
Dibromofluoromethane,S
1,1,1-Trichloroethane,T
Cyclohexane
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,T
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Time-->

Abundance
TIC: 6M169571.D\data.ms
Chlorobenzene-d5,I
Chlorobenzene,T
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
n-Propylbenzene
4-Chlorotoluene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38586-008(MSD:AD
Client Id: HB-1 +QA\QC MSD
Data File: 6M169572.D
Analysis Date: 06/16/23 13:54
Date Rec/Extracted: 06/14/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 4.55g
Final Vol: NA
Dilution: 1.10
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0026	0.051	56-23-5	Carbon Tetrachloride	0.0026	0.050
79-34-5	1,1,2,2-Tetrachloroethane	0.0026	0.023	108-90-7	Chlorobenzene	0.0026	0.0039
76-13-1	1,1,2-Trichloro-1,2,2-triflu	0.0026	0.061	75-00-3	Chloroethane	0.0026	0.034
79-00-5	1,1,2-Trichloroethane	0.0026	0.013	67-66-3	Chloroform	0.0026	0.021
75-34-3	1,1-Dichloroethane	0.0026	0.032	74-87-3	Chloromethane	0.0026	0.051
75-35-4	1,1-Dichloroethene	0.0026	0.032	156-59-2	cis-1,2-Dichloroethene	0.0026	0.013
87-61-6	1,2,3-Trichlorobenzene	0.0026	0.0011 J	10061-01-5	cis-1,3-Dichloropropene	0.0026	0.0033
120-82-1	1,2,4-Trichlorobenzene	0.0026	0.00095 J	110-82-7	Cyclohexane	0.0026	0.051
96-12-8	1,2-Dibromo-3-Chloroprop	0.0026	0.0086	124-48-1	Dibromochloromethane	0.0026	0.0093
106-93-4	1,2-Dibromoethane	0.00086	0.0026	75-71-8	Dichlorodifluoromethane	0.0026	0.071
95-50-1	1,2-Dichlorobenzene	0.0026	0.0032	100-41-4	Ethylbenzene	0.0013	0.014
107-06-2	1,2-Dichloroethane	0.0026	0.0072	98-82-8	Isopropylbenzene	0.0013	0.026
78-87-5	1,2-Dichloropropane	0.0026	0.021	79601-23-1	m&p-Xylenes	0.0019	0.026
541-73-1	1,3-Dichlorobenzene	0.0026	0.0025 J	79-20-9	Methyl Acetate	0.0026	0.021
106-46-7	1,4-Dichlorobenzene	0.0026	0.0020 J	108-87-2	Methylcyclohexane	0.0026	0.043
123-91-1	1,4-Dioxane	0.13	2.0	75-09-2	Methylene Chloride	0.0026	0.018
78-93-3	2-Butanone	0.0026	0.023	1634-04-4	Methyl-t-butyl ether	0.0013	0.048
591-78-6	2-Hexanone	0.0026	0.0081	95-47-6	o-Xylene	0.0013	0.018
108-10-1	4-Methyl-2-Pentanone	0.0026	0.023	100-42-5	Styrene	0.0026	0.0039
67-64-1	Acetone	0.013	0.20	127-18-4	Tetrachloroethene	0.0026	0.022
71-43-2	Benzene	0.0013	0.020	108-88-3	Toluene	0.0013	0.013
74-97-5	Bromochloromethane	0.0026	0.0086	156-60-5	trans-1,2-Dichloroethene	0.0026	0.012
75-27-4	Bromodichloromethane	0.0026	0.012	10061-02-6	trans-1,3-Dichloropropene	0.0026	0.0016 J
75-25-2	Bromoform	0.0026	0.011	79-01-6	Trichloroethene	0.0026	0.0090
74-83-9	Bromomethane	0.0026	0.021	75-69-4	Trichlorofluoromethane	0.0026	0.054
75-15-0	Carbon Disulfide	0.0026	0.020	75-01-4	Vinyl Chloride	0.0026	0.043
1330-20-7	Xylenes (Total)	0.0013	0.044				

Worksheet #: 696297 ***Total Target Concentration*** 3.3 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

SampleID : AD38586-008(MSD:AD3 Operator : WP Qt Meth : 6M_S0510.M
Data File: 6M169572.D Sam Mult : 1 Vial# : 17 Qt On : 06/16/23 17:27
Acq On : 06/16/23 13:54 Misc : S,5G!4 Qt Upd On: 05/11/23 10:47

Data Path : **G:\GcMsData\2023\GCMS_6\Data\06-16-23**
Qt Path : G:**GcMsData**\2023\GCMS_6**MethodQt**\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.117	96	373515	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.751	117	202544	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.037	152	61383m	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.715	111	111900	33.35	ug/l	0.00
Spiked Amount 30.000			Recovery = 111.17%			
39) 1,2-Dichloroethane-d4	4.922	67	49917	28.17	ug/l	0.00
Spiked Amount 30.000			Recovery = 93.90%			
66) Toluene-d8	5.970	98	322454m	36.68	ug/l	0.00
Spiked Amount 30.000			Recovery = 122.27%			
76) Bromofluorobenzene	7.379	174	61996m	40.64	ug/l	0.00
Spiked Amount 30.000			Recovery = 135.47%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.648	51	106615	46.1556	ug/l	31
6) Dichlorodifluoromethane	1.636	85	103758	53.6100	ug/l	97
7) Chloromethane	1.813	50	120323	38.3882	ug/l	100
8) Bromomethane	2.227	94	24742	15.7948	ug/l	96
9) Vinyl Chloride	1.916	62	81106	32.2071	ug/l	100
10) Chloroethane	2.319	64	43420m	25.5445	ug/l	
11) Trichlorofluoromethane	2.550	101	127454m	40.8868	ug/l	
12) Ethyl ether	2.794	59	36420m	16.5489	ug/l	
13) Furan	2.837	39	66787m	20.0944	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	3.007	101	81447m	46.3179	ug/l	
15) Methylene Chloride	3.416	84	36570m	13.5538	ug/l	
16) Acrolein	2.910	56	30063m	62.4560	ug/l	
17) Acrylonitrile	3.623	53	10421m	10.1251	ug/l	
18) Iodomethane	3.154	142	6520m	3.9965	ug/l	
19) Acetone	3.038	43	111973m	148.3561	ug/l	
20) Carbon Disulfide	3.221	76	84634m	14.8382	ug/l	
21) t-Butyl Alcohol	3.483	59	44591m	152.2016	ug/l	
22) n-Hexane	3.898	57	67571m	29.2858	ug/l	
23) Di-isopropyl-ether	4.050	45	198639m	30.5463	ug/l	
24) 1,1-Dichloroethene	3.014	61	71166m	24.2401	ug/l	
25) Methyl Acetate	3.325	43	36258m	15.7326	ug/l	
26) Methyl-t-butyl ether	3.660	73	205309m	35.9044	ug/l	
27) 1,1-Dichloroethane	4.013	63	97953m	24.0291	ug/l	
28) trans-1,2-Dichloroethene	3.666	96	20638m	9.3774	ug/l	
29) Ethyl-t-butyl ether	4.050	59	25224m	30.7302	ug/l	
30) cis-1,2-Dichloroethene	4.428	61	40861m	9.9754	ug/l	
31) Bromochloromethane	4.580	49	13623m	6.4755	ug/l	
32) 2,2-Dichloropropane	4.434	77	109093m	38.8895	ug/l	
33) Ethyl acetate	4.452	43	18769m	6.8372	ug/l	
34) 1,4-Dioxane	5.507	88	59917m	1526.3329	ug/l	
35) 1,1-Dichloropropene	4.843	75	38942m	13.2824	ug/l	
36) Chloroform	4.617	83	73465m	16.1026	ug/l	
38) Cyclohexane	4.794	56	106011m	38.4574	ug/l	
40) 1,2-Dichloroethane	4.964	62	19218m	5.4361	ug/l	
41) 2-Butanone	4.422	43	22053m	17.0900	ug/l	
42) 1,1,1-Trichloroethane	4.751	97	127285m	38.7395	ug/l	
43) Carbon Tetrachloride	4.855	117	110226m	37.9611	ug/l	
44) Vinyl Acetate	4.050	43	100557m	16.2433	ug/l	
45) Bromodichloromethane	5.580	83	32549m	8.7975	ug/l	
46) Methylcyclohexane	5.440	83	100849m	32.7463	ug/l	
47) Dibromomethane	5.513	174	6330m	3.3257	ug/l	
48) 1,2-Dichloropropane	5.446	63	41256m	15.7339	ug/l	
49) Trichloroethene	5.318	130	17074m	6.7762	ug/l	
50) Benzene	4.964	78	143828m	15.2081	ug/l	
51) tert-Amyl methyl ether	5.013	73	184840m	34.5391	ug/l	
53) Iso-propylacetate	4.964	43	63296m	18.3075	ug/l	
54) Methyl methacrylate	5.470	41	13118m	8.1747	ug/l	
55) Dibromochloromethane	6.434	129	16092m	7.0352	ug/l	
56) 2-Chloroethylvinylether	5.727	63	170m	29.1207	ug/l	
57) cis-1,3-Dichloropropene	5.818	75	7438m	2.4632	ug/l	
58) trans-1,3-Dichloropropene	6.105	75	3359m	1.2185	ug/l	
59) Ethyl methacrylate	6.123	41	7087m	4.0760	ug/l	
60) 1,1,2-Trichloroethane	6.208	97	19265m	10.0477	ug/l	
61) 1,2-Dibromoethane	6.513	107	3967m	1.9606	ug/l	
62) 1,3-Dichloropropane	6.300	76	13789m	4.2665	ug/l	
63) 4-Methyl-2-Pentanone	5.885	43	32281m	17.3861	ug/l	
64) 2-Hexanone	6.318	43	8414m	6.0877	ug/l	
65) Tetrachloroethene	6.312	164	22630m	16.3200	ug/l	
67) Toluene	6.007	92	44297m	9.8361	ug/l	

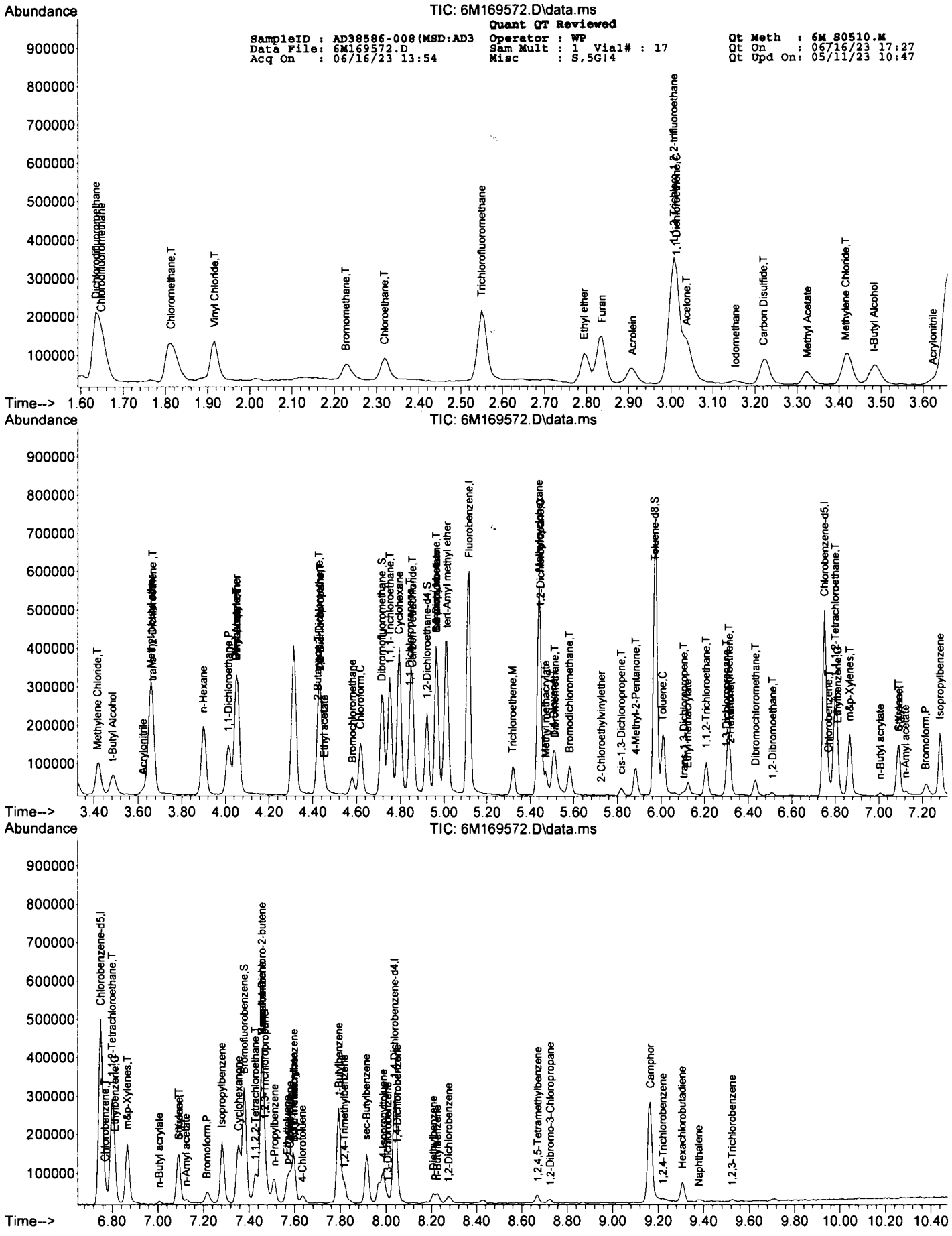
Quantitation Report (QT Reviewed)

SampleID : AD38586-008(MSD:AD3 Operator : WP Qt Meth : 6M_S0510.M
Data File: 6M169572.D Sam Mult : 1 Vial# : 17 Qt On : 06/16/23 17:27
Acq On : 06/16/23 13:54 **Misc : S,5G!4** **Qt Upd On: 05/11/23 10:47**

Data Path : G:\GcMsData\2023\GCMS_6\Data\06-16-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.800	133	43796m	23.2875	ug/l	
69)	Chlorobenzene	6.769	112	15375m	2.9633	ug/l	
71)	n-Butyl acrylate	7.007	55	3093m	1.5942	ug/l	
72)	n-Amyl acetate	7.123	43	2229m	1.2856	ug/l	
73)	Bromoform	7.214	173	7818m	8.2940	ug/l	
74)	Ethylbenzene	6.812	106	12314m	10.8216	ug/l	
75)	1,1,2,2-Tetrachloroethane	7.427	83	27191m	17.3056	ug/l	
77)	Styrene	7.092	104	8744m	2.9806	ug/l	
78)	m&p-Xylenes	6.867	106	33412m	19.7297	ug/l	
79)	o-Xylene	7.092	106	24414m	13.8420	ug/l	
80)	trans-1,4-Dichloro-2-b...	7.458	53	10443m	20.1836	ug/l	
81)	1,3-Dichlorobenzene	8.007	146	4225	1.8684	ug/l	93
82)	1,4-Dichlorobenzene	8.049	146	3359	1.4959	ug/l	82
83)	1,2-Dichlorobenzene	8.275	146	5399	2.4125	ug/l	97
84)	Isopropylbenzene	7.281	105	74732	19.2974	ug/l	94
85)	Cyclohexanone	7.354	55	47362m	757.2889	ug/l	
86)	Camphene	7.458	93	79681	59.4269	ug/l	99
87)	1,2,3-Trichloropropane	7.470	75	17138m	9.7206	ug/l	
88)	2-Chlorotoluene	7.580	91	21033m	7.5946	ug/l	
89)	p-Ethyltoluene	7.568	105	22406m	5.4682	ug/l	
90)	4-Chlorotoluene	7.635	91	6669m	2.5713	ug/l	
91)	n-Propylbenzene	7.513	91	35973m	7.7646	ug/l	
92)	Bromobenzene	7.458	77	31004m	10.3777	ug/l	
93)	1,3,5-Trimethylbenzene	7.598	105	44591m	14.0590	ug/l	
94)	Butyl methacrylate	7.598	41	2672m	2.1707	ug/l	
95)	t-Butylbenzene	7.793	119	89975m	27.3053	ug/l	
96)	1,2,4-Trimethylbenzene	7.818	105	23800m	6.9567	ug/l	
97)	sec-Butylbenzene	7.915	105	64485m	16.0113	ug/l	
98)	4-Isopropyltoluene	7.988	119	32458m	7.5897	ug/l	
99)	n-Butylbenzene	8.226	91	9501m	2.4962	ug/l	
100)	p-Diethylbenzene	8.208	119	5773m	2.8875	ug/l	
101)	1,2,4,5-Tetramethylben...	8.671	119	7585m	2.2834	ug/l	
102)	1,2-Dibromo-3-Chloropr...	8.726	157	2388m	6.5000	ug/l	
103)	Camphor	9.165	95	52191m	369.1471	ug/l	
104)	Hexachlorobutadiene	9.305	225	7260m	10.8018	ug/l	
105)	1,2,4-Trichlorobenzene	9.220	180	1004m	0.7173	ug/l	
106)	1,2,3-Trichlorobenzene	9.525	180	1087m	0.7962	ug/l	
107)	Naphthalene	9.378	128	3813m	0.9996	ug/l	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M169572.D\data.ms
Quant QT Reviewed
SampleID : AD38586-008(MSD:AD3
Data File: 6M169572.D
Acq On : 06/16/23 13:54
Operator : WP
Sam Mult : 1 Vial# : 17
Misc : S,5G|4
Qt Meth : 6M_S0510.M
Qt On : 06/16/23 17:27
Qt Upd On: 05/11/23 10:47
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
Time-->

Abundance
TIC: 6M169572.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
1,1-Dichloroethane,P
Ethyl acetate
Bromochloromethane
Chloroform,C
Dibromofluoromethane,S
1,1,1-Trichloroethane,T
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Time-->

Abundance
TIC: 6M169572.D\data.ms
Chlorobenzene-d5,I
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
n-Propylbenzene
4-Chlorotoluene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

GC/MS Volatile Data
Standards Data

3061429 0125

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6M167857.D	CAL @20 PPB	05/10/23 04:38	2	6M167855.D	CAL @ 5 PPB	05/10/23 03:54
3	6M167856.D	CAL @ 2 PPB	05/10/23 04:16	4	6M167858.D	CAL @ 50 PPB	05/10/23 05:00
5	6M167859.D	CAL @ 100 PPB	05/10/23 05:21	6	6M167860.D	CAL @ 250PPB	05/10/23 05:43
7	6M167862.D	CAL @ 500 PPB	05/10/23 06:27	8	6M167854.D	CAL @ 1 PPB	05/10/23 03:32
9	6M167853.D	CAL @ 0.5 PPB	05/10/23 03:10				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.1738	0.1620	0.1752	0.1871	0.1881	0.2018	0.2103	-----	-----	0.186	1.66	0.999	1.00	9.0	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dichlorodifluorometha	1	0	Avg	0.1453	0.1370	0.1501	0.1554	0.1603	0.1654	0.1743	-----	-----	0.155	1.64	0.999	1.00	8.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloromethane	1	0	Avg	0.2381	0.2477	0.2636	0.2607	0.2559	0.2487	0.2472	-----	-----	0.252	1.83	1.00	1.00	3.5	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromomethane	1	0	Avg	0.1083	0.1275	0.1425	0.1140	0.1201	0.1316	0.1364	-----	-----	0.126	2.23	0.999	1.00	9.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Chloride	1	0	Avg	0.1849	0.1913	0.1906	0.2044	0.2078	0.2147	0.2218	-----	-----	0.202	1.92	1.00	1.00	6.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroethane	1	0	Avg	0.1250	0.1408	0.1442	0.1328	0.1354	0.1383	0.1388	-----	-----	0.137	2.32	1.00	1.00	4.6	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichlorofluoromethan	1	0	Avg	0.2361	0.2372	0.2519	0.2542	0.2543	0.2559	0.2627	-----	-----	0.250	2.55	1.00	1.00	4.0	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl ether	1	0	Avg	0.1697	0.1611	0.1892	0.1731	0.1759	0.1829	0.1850	-----	-----	0.177	2.80	1.00	1.00	5.5	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Furan	1	0	Avg	0.2405	0.2497	0.2531	0.2604	0.2710	0.2944	0.2992	-----	-----	0.267	2.84	1.00	1.00	8.4	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.1282	0.1423	0.1434	0.1401	0.1432	0.1435	0.1478	-----	-----	0.141	3.01	1.00	1.00	4.4	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methylene Chloride	1	0	Avg	0.1991	0.2154	0.2463	0.2090	0.2112	0.2163	0.2193	-----	-----	0.217	3.42	1.00	1.00	6.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acrolein	1	0	Avg	0.0369	0.0375	0.0363	0.0395	0.0400	0.0402	0.0399	-----	-----	0.0387	2.91	1.00	1.00	4.3		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Acrylonitrile	1	0	Avg	0.0775	0.0839	0.0968	0.0803	0.0794	0.0799	0.0804	-----	-----	0.0827	3.63	1.00	1.00	7.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iodomethane	1	0	Qua	0.0881	0.0993	0.1061	0.1094	0.1275	0.1631	0.1830	-----	-----	0.125	3.16	0.995	0.999	28		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acetone	1	0	Qua	0.0660	0.0727	0.0989	0.0621	0.0612	0.0595	0.0591	-----	-----	0.0686	3.04	1.00	1.00	21	0.10 a	100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Carbon Disulfide	1	0	Avg	0.4076	0.4570	0.5222	0.4471	0.4521	0.4534	0.4671	-----	-----	0.458	3.23	1.00	1.00	7.4	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
t-Butyl Alcohol	1	0	Avg	0.0214	0.0257	0.0273	0.0220	0.0224	0.0224	0.0233	-----	-----	0.0235	3.49	1.00	1.00	9.3		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
n-Hexane	1	0	Avg	0.1663	0.1665	0.1748	0.1881	0.1969	0.1973	0.2071	-----	-----	0.185	3.90	1.00	1.00	8.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Di-isopropyl-ether	1	0	Avg	0.4753	0.4500	0.4941	0.5335	0.5482	0.5733	0.5814	-----	-----	0.522	4.06	1.00	1.00	9.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1-Dichloroethene	1	0	Avg	0.2117	0.2245	0.2413	0.2339	0.2394	0.2456	0.2540	-----	-----	0.236	3.01	1.00	1.00	6.0	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl Acetate	1	0	Avg	0.1785	0.1869	0.1979	0.1811	0.1824	0.1830	0.1858	-----	-----	0.185	3.32	1.00	1.00	3.4	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl-t-butyl ether	1	0	Avg	0.4309	0.4215	0.4584	0.4590	0.4740	0.5045	0.5117	0.4139	-----	0.459	3.66	1.00	1.00	7.9	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1-Dichloroethane	1	0	Avg	0.2975	0.2918	0.3447	0.3275	0.3317	0.3443	0.3542	-----	-----	0.327	4.01	1.00	1.00	7.4	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,2-Dichloroethe	1	0	Avg	0.1585	0.1666	0.1723	0.1773	0.1814	0.1868	0.1941	-----	-----	0.177	3.67	1.00	1.00	6.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl-t-butyl ether	1	0	Avg	0.0578	0.0563	0.0696	0.0656	0.0676	0.0711	0.0731	-----	-----	0.0659	4.06	1.00	1.00	9.8	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,2-Dichloroethene	1	0	Avg	0.3000	0.3065	0.3427	0.3226	0.3310	0.3433	0.3565	-----	-----	0.329	4.43	1.00	1.00	6.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromochloromethane	1	0	Avg	0.1602	0.1699	0.1862	0.1644	0.1663	0.1678	0.1677	-----	-----	0.169	4.58	1.00	1.00	4.9		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2,2-Dichloropropane	1	0	Avg	0.2076	0.2016	0.2272	0.2200	0.2297	0.2394	0.2513	-----	-----	0.225	4.43	0.999	1.00	7.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl acetate	1	0	Avg	0.2080	0.2175	0.2445	0.2170	0.2183	0.2133	0.2245	-----	-----	0.220	4.45	0.999	1.00	5.3		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dioxane	1	0	Avg	0.0031	0.0031	0.0032	0.0031	0.0031	0.0031	0.0031	-----	-----	0.00315	5.51	1.00	1.00	1.4		1000.	250.0	100.0	2500.	5000.	12500	25000		
1,1-Dichloropropene	1	0	Avg	0.2094	0.2126	0.2501	0.2324	0.2420	0.2436	0.2580	-----	-----	0.235	4.84	0.999	1.00	7.8		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroform	1	0	Avg	0.3242	0.3608	0.4609	0.3492	0.3488	0.3564	0.3644	-----	-----	0.366	4.62	1.00	1.00	12	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromofluoromethan	1	0	Avg	0.2667	0.2748	0.2809	0.2620	0.2624	0.2598	0.2602	0.2778	0.2803	0.269	4.71	-1	-1	3.3		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.1969	0.1838	0.2116	0.2252	0.2352	0.2408	0.2561	-----	-----	0.221	4.79	0.999	1.00	12	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloroethane-d4	1	0	Avg	0.1412	0.1448	0.1483	0.1396	0.1368	0.1383	0.1344	0.1470	0.1504	0.142	4.92	-1	-1	3.9		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.2626	0.2798	0.3348	0.2741	0.2757	0.2780	0.2824	-----	-----	0.284	4.96	1.00	1.00	8.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Butanone	1	0	Avg	0.0933	0.1164	0.1088	0.0980	0.0998	0.1033	0.1055	-----	-----	0.104	4.42	1.00	1.00	7.3	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,1-Trichloroethane	1	0	Avg	0.2396	0.2503	0.2781	0.2582	0.2630	0.2734	0.2844	-----	-----	0.264	4.75	1.00	1.00	6.0	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Carbon Tetrachloride	1	0	Avg	0.2149	0.2215	0.2493	0.2315	0.2319	0.2363	0.2468	-----	-----	0.233	4.85	1.00	1.00	5.3	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Acetate	1	0	Avg	0.4468	0.4509	0.4892	0.4989	0.5118	0.5388	0.5437	-----	-----	0.497	4.05	1.00	1.00	7.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromodichloromethan	1	0	Avg	0.2732	0.2814	0.3469	0.2819	0.2889	0.2988	0.3088	-----	-----	0.297	5.58	1.00	1.00	8.4	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.339

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

3061429 0126

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6M167857.D	CAL @20 PPB	05/10/23 04:38	2	6M167855.D	CAL @ 5 PPB	05/10/23 03:54
3	6M167856.D	CAL @ 2 PPB	05/10/23 04:16	4	6M167858.D	CAL @ 50 PPB	05/10/23 05:00
5	6M167859.D	CAL @ 100 PPB	05/10/23 05:21	6	6M167860.D	CAL @ 250PPB	05/10/23 05:43
7	6M167862.D	CAL @ 500 PPB	05/10/23 06:27	8	6M167854.D	CAL @ 1 PPB	05/10/23 03:32
9	6M167853.D	CAL @ 0.5 PPB	05/10/23 03:10				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.2119	0.2066	0.2322	0.2506	0.2616	0.2706	0.2976	-----	-----	0.247	5.44	0.998	1.00	13	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromomethane	1	0	Avg	0.1419	0.1517	0.1712	0.1474	0.1488	0.1524	0.1565	-----	-----	0.153	5.51	1.00	1.00	6.1		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloropropane	1	0	Avg	0.1906	0.1940	0.2298	0.2031	0.2072	0.2180	0.2311	-----	-----	0.211	5.45	0.999	1.00	7.7	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichloroethene	1	0	Avg	0.1757	0.1907	0.2421	0.1940	0.1954	0.2031	0.2153	-----	-----	0.202	5.32	0.999	1.00	11	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Benzene	1	0	Avg	0.6821	0.6993	0.8008	0.7418	0.7474	0.7728	0.7885	0.8435	-----	0.760	4.97	1.00	1.00	7.0	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
tert-Amyl methyl ether	1	0	Avg	0.3976	0.3722	0.3971	0.4273	0.4511	0.4713	0.4920	-----	-----	0.430	5.01	0.999	1.00	10		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iso-propylacetate	1	0	Avg	0.4707	0.4770	0.4977	0.5055	0.5228	0.5506	0.5600	-----	-----	0.512	4.96	1.00	1.00	6.7	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl methacrylate	1	0	Avg	0.2235	0.2264	0.2126	0.2437	0.2466	0.2532	0.2574	-----	-----	0.238	5.47	1.00	1.00	7.1	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromochloromethan	1	0	Avg	0.3106	0.3428	0.3919	0.3279	0.3275	0.3341	0.3363	-----	-----	0.339	6.43	1.00	1.00	7.5	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chloroethylvinylethe	1	0	Qua	0.0022	0.0015	0.0010	0.0013	0.0015	0.0021	0.0037	-----	-----	0.00193	5.72	0.951	1.00	47		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,3-Dichloropropen	1	0	Avg	0.3993	0.3901	0.4983	0.4366	0.4502	0.4706	0.4855	-----	-----	0.447	5.82	1.00	1.00	9.3	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,3-Dichloroprop	1	0	Avg	0.3615	0.3803	0.4375	0.4028	0.4058	0.4290	0.4407	-----	-----	0.408	6.10	1.00	1.00	7.3	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl methacrylate	1	0	Avg	0.2369	0.2187	0.2443	0.2605	0.2753	0.2817	0.2849	-----	-----	0.258	6.12	1.00	1.00	9.7	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloroethane	1	0	Avg	0.2729	0.2820	0.3297	0.2758	0.2749	0.2753	0.2770	-----	-----	0.284	6.21	1.00	1.00	7.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromoethane	1	0	Avg	0.2710	0.2856	0.3454	0.2841	0.2839	0.2861	0.2910	0.2953	0.3545	0.300	6.51	1.00	1.00	9.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	0.50
1,3-Dichloropropane	1	0	Avg	0.4497	0.4645	0.5296	0.4728	0.4739	0.4768	0.4833	-----	-----	0.479	6.31	1.00	1.00	5.2		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Methyl-2-Pentanone	1	0	Avg	0.2559	0.2495	0.2625	0.2761	0.2888	0.2940	0.2979	-----	-----	0.275	5.89	1.00	1.00	7.0	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Hexanone	1	0	Avg	0.1912	0.1737	0.2185	0.2059	0.2120	0.2139	0.2174	-----	-----	0.205	6.32	1.00	1.00	8.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Tetrachloroethene	1	0	Avg	0.1907	0.1897	0.2277	0.2082	0.2037	0.2033	0.2140	-----	-----	0.205	6.31	0.999	1.00	6.4	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Toluene-d8	1	0	Avg	1.3178	1.3005	1.2767	1.3461	1.3085	1.3186	1.2921	1.2791	1.2789	1.30	5.98	-1	-1	1.8		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.5923	0.6077	0.7398	0.6505	0.6497	0.6601	0.6773	0.7586	-----	0.667	6.01	1.00	1.00	8.7	0.40	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.2493	0.2630	0.3320	0.2689	0.2742	0.2780	0.2842	-----	-----	0.279	6.80	1.00	1.00	9.4		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chlorobenzene	1	0	Avg	0.6909	0.7272	0.9455	0.7520	0.7405	0.7570	0.7660	-----	-----	0.768	6.77	1.00	1.00	11	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Butyl acrylate	1	0	Avg	0.7980	0.7562	0.8721	0.9333	1.0356	1.1117	1.1303	-----	-----	0.948	7.01	1.00	1.00	16	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Amyl acetate	1	0	Avg	0.7394	0.6878	0.8099	0.8563	0.9254	0.9686	0.9442	-----	-----	0.847	7.13	1.00	1.00	13	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromoform	1	0	Avg	0.4228	0.4702	0.5301	0.4334	0.4496	0.4606	0.4579	-----	-----	0.461	7.21	1.00	1.00	7.5	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethylbenzene	1	0	Avg	0.4823	0.4801	0.5762	0.5448	0.5896	0.6055	0.6099	0.5605	-----	0.556	6.81	1.00	1.00	9.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.7083	0.7944	0.9055	0.7190	0.7610	0.7410	0.7458	-----	-----	0.768	7.43	1.00	1.00	8.7	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromofluorobenzene	1	0	Avg	0.7547	0.7465	0.7230	0.7593	0.7791	0.7747	0.7372	0.7277	0.7080	0.746	7.39	-1	-1	3.2		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	1.2650	1.2013	1.4453	1.4449	1.5244	1.5853	1.5700	-----	-----	1.43	7.09	1.00	1.00	10	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
m&p-Xylenes	1	0	Avg	0.7270	0.6944	0.8455	0.8249	0.8571	0.8753	0.8730	0.7362	1.0151	0.828	6.87	1.00	1.00	12	0.10	40.00	10.00	4.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	0.7782	0.7454	0.9274	0.8632	0.8953	0.9259	0.9349	0.8254	-----	0.862	7.09	1.00	1.00	8.4	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.2304	0.2269	0.2634	0.2503	0.2617	0.2673	0.2696	-----	-----	0.253	7.46	1.00	1.00	7.0		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3-Dichlorobenzene	1	0	Avg	0.9907	1.0645	1.3255	1.0639	1.0877	1.0952	1.1083	-----	-----	1.11	8.01	1.00	1.00	9.4	0.60	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dichlorobenzene	1	0	Avg	0.9662	1.0676	1.3784	1.0451	1.0667	1.0699	1.0878	-----	-----	1.10	8.06	1.00	1.00	12	0.50	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichlorobenzene	1	0	Avg	0.9777	1.0188	1.3686	1.0463	1.0761	1.0736	1.0951	-----	-----	1.09	8.28	1.00	1.00	12	0.40	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Isopropylbenzene	1	0	Avg	1.7236	1.6556	1.9412	1.9439	2.0423	2.0789	2.0625	1.6933	-----	1.89	7.29	1.00	1.00	9.3	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Avg	0.0324	0.0272	0.0376	0.0265	0.0280	0.0297	0.0322	-----	-----	0.0306	7.35	0.998	1.00	13		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Camphene	1	0	Avg	0.5775	0.5263	0.6111	0.6575	0.7039	0.7421	0.7684	-----	-----	0.655	7.46	1.00	1.00	14		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichloropropane	1	0	Avg	0.7854	0.8522	0.9552	0.8265	0.8531	0.8787	0.8804	-----	-----	0.862	7.47	1.00	1.00	6.1		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chlorotoluene	1	0	Avg	1.2476	1.2097	1.4998	1.3619	1.3950	1.4159	1.3445	-----	-----	1.35	7.58	0.999	1.00	7.3		20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.339
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6M167857.D	CAL @20 PPB	05/10/23 04:38	2	6M167855.D	CAL @ 5 PPB	05/10/23 03:54
3	6M167856.D	CAL @ 2 PPB	05/10/23 04:16	4	6M167858.D	CAL @ 50 PPB	05/10/23 05:00
5	6M167859.D	CAL @ 100 PPB	05/10/23 05:21	6	6M167860.D	CAL @ 250PPB	05/10/23 05:43
7	6M167862.D	CAL @ 500 PPB	05/10/23 06:27	8	6M167854.D	CAL @ 1 PPB	05/10/23 03:32
9	6M167853.D	CAL @ 0.5 PPB	05/10/23 03:10				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	1.7494	1.5958	2.1146	2.0214	2.0941	2.1278	2.3149	-----	-----	2.00	7.57	0.998	1.00	12		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Chlorotoluene	1	0	Avg	1.2244	1.2267	1.4501	1.3015	1.3481	1.3899	0.9320	-----	-----	1.27	7.63	0.951	0.996	13		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Propylbenzene	1	0	Avg	2.1465	1.9987	2.3569	2.4113	2.4795	2.4609	2.3790	1.8812	-----	2.26	7.51	1.00	1.00	10		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	1.3015	1.3857	1.6932	1.4140	1.4577	1.4784	1.4900	-----	-----	1.46	7.48	1.00	1.00	8.3		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3,5-Trimethylbenzen	1	0	Avg	1.5538	1.3809	1.4157	1.7048	1.7692	1.7753	1.2452	1.5557	-----	1.55	7.60	0.964	0.998	12		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Avg	0.5596	0.5312	0.6334	0.6250	0.6607	0.6894	0.4635	0.6498	-----	0.602	7.60	0.955	0.996	13	0.50	a	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
t-Butylbenzene	1	0	Avg	1.4706	1.3420	1.6204	1.6803	1.7729	1.8226	1.8541	1.3204	-----	1.61	7.79	1.00	1.00	13		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzen	1	0	Avg	1.5669	1.4256	1.6760	1.7836	1.8541	1.8828	1.8599	1.3270	-----	1.67	7.82	1.00	1.00	13		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	1.8685	1.6506	1.8053	2.1577	2.2571	2.2911	2.2699	1.4464	-----	1.97	7.92	1.00	1.00	16		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Avg	1.7024	1.8124	2.5563	1.8732	1.9282	1.9541	1.9588	2.9350	-----	2.09	7.99	1.00	1.00	20		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
n-Butylbenzene	1	0	Avg	1.7548	1.5598	1.8176	2.0175	2.0786	2.1215	2.1306	1.4008	-----	1.86	8.23	1.00	1.00	15		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	0.8717	0.7942	0.9176	1.0285	1.0970	1.1662	1.2102	0.7312	-----	0.977	8.21	0.999	1.00	18		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,2,4,5-Tetramethylbe	1	0	Qua	1.0999	1.0071	1.1799	1.4106	1.5728	1.7706	1.8202	-----	-----	1.41	8.67	0.999	1.00	23		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromo-3-Chloro	1	0	Avg	0.1634	0.1871	0.1952	0.1707	0.1760	0.1809	0.1833	-----	-----	0.180	8.73	1.00	1.00	5.9	0.05	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Camphor	1	0	Avg	0.0578	0.0515	0.0577	0.0683	0.0783	0.0833	0.0865	-----	-----	0.0691	9.17	0.999	1.00	20		200.0	50.00	20.00	500.0	1000.	2500.	5000.		
Hexachlorobutadiene	1	0	Avg	0.3033	0.2666	0.2972	0.3393	0.3493	0.3631	0.3803	-----	-----	0.328	9.31	0.999	1.00	12		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4-Trichlorobenzen	1	0	Avg	0.6066	0.5805	0.7453	0.6829	0.6975	0.7305	0.7446	-----	-----	0.684	9.22	1.00	1.00	9.7	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichlorobenzen	1	0	Avg	0.5861	0.5729	0.7192	0.6677	0.6789	0.7123	0.7335	-----	-----	0.667	9.52	1.00	1.00	9.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Naphthalene	1	0	Avg	1.6178	1.5766	1.9289	1.8964	2.0232	2.0700	2.0508	1.7498	-----	1.86	9.38	1.00	1.00	10		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	

Flags	*Note:* Avg Rsd: 9.339
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Quantitation Report (QT Reviewed)

SampleID : CAL @20 PPB Operator : WP Qt Meth : 6M_S0510.M
Data File: 6M167857.D Sam Mult : 1 Vial# : 18 Qt On : 05/10/23 17:42
Acq On : 05/10/23 04:38 Misc : S,5G Qt Upd On: 05/10/23 17:38

Data Path : G:\GcMsData\2023\GCMS_6\Data\0510-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.117	96	622746	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.750	117	441877	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.037	152	241542	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.714	111	166105	29.11	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.03%			
39) 1,2-Dichloroethane-d4	4.922	67	87945	33.62	ug/l	0.00
Spiked Amount 30.000			Recovery = 112.07%			
66) Toluene-d8	5.976	98	582327	35.04	ug/l	0.00
Spiked Amount 30.000			Recovery = 116.80%			
76) Bromofluorobenzene	7.378	174	182296	31.70	ug/l	0.00
Spiked Amount 30.000			Recovery = 105.67%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.660	51	72180	19.1205	ug/l	51
6) Dichlorodifluoromethane	1.636	85	60327	18.7103	ug/l	98
7) Chloromethane	1.825	50	98875	27.4489	ug/l	97
8) Bromomethane	2.227	94	44988	19.0849	ug/l	98
9) Vinyl Chloride	1.916	62	76786	20.2894	ug/l	99
10) Chloroethane	2.318	64	51932	23.0109	ug/l	92
11) Trichlorofluoromethane	2.556	101	98052	20.7033	ug/l	93
12) Ethyl ether	2.794	59	70481	34.5504	ug/l	90
13) Furan	2.837	39	99858	26.1433	ug/l	86
14) 1,1,2-Trichloro-1,2,2-...	3.007	101	53226	19.9349	ug/l	99
15) Methylene Chloride	3.422	84	82668	27.9165	ug/l	77
16) Acrolein	2.910	56	76788	180.3588	ug/l	94
17) Acrylonitrile	3.623	53	32206	29.8005	ug/l	90
18) Iodomethane	3.154	142	36581	11.9272	ug/l	93
19) Acetone	3.038	43	137089	149.5628	ug/l	88
20) Carbon Disulfide	3.221	76	169254	17.3752	ug/l	100
21) t-Butyl Alcohol	3.489	59	44500	142.7944	ug/l	80
22) n-Hexane	3.903	57	69044	19.7557	ug/l	91
23) Di-isopropyl-ether	4.050	45	197341	28.3510	ug/l	88
24) 1,1-Dichloroethene	3.013	61	87889	22.9537	ug/l	96
25) Methyl Acetate	3.324	43	74114	30.5588	ug/l	100
26) Methyl-t-butyl ether	3.660	73	178902	30.9680	ug/l	92
27) 1,1-Dichloroethane	4.013	63	123517	24.8920	ug/l	96
28) trans-1,2-Dichloroethene	3.666	96	65825	21.1420	ug/l	95
29) Ethyl-t-butyl ether	4.050	59	24026m	26.4661	ug/l	
30) cis-1,2-Dichloroethene	4.428	61	124571	27.2407	ug/l	91
31) Bromochloromethane	4.580	49	66533	33.2571	ug/l	83
32) 2,2-Dichloropropane	4.434	77	86224	24.9048	ug/l	97
33) Ethyl acetate	4.452	43	86355	33.3120	ug/l	99
34) 1,4-Dioxane	5.507	88	64459	1463.9957	ug/l	91
35) 1,1-Dichloropropene	4.842	75	86938	21.9612	ug/l	88
36) Chloroform	4.617	83	134620	26.3432	ug/l	98
38) Cyclohexane	4.793	56	81755	19.5674	ug/l	89
40) 1,2-Dichloroethane	4.964	62	109026	34.8112	ug/l	98
41) 2-Butanone	4.422	43	38771	31.8801	ug/l	94
42) 1,1,1-Trichloroethane	4.751	97	99485	22.0863	ug/l	99
43) Carbon Tetrachloride	4.854	117	89226	21.2325	ug/l	99
44) Vinyl Acetate	4.050	43	185534	30.8491	ug/l	100
45) Bromodichloromethane	5.580	83	113430	30.3520	ug/l	100
46) Methylcyclohexane	5.440	83	88012	18.3301	ug/l	90
47) Dibromomethane	5.513	174	58916	29.9330	ug/l	96
48) 1,2-Dichloropropane	5.446	63	79158	28.1173	ug/l	98
49) Trichloroethene	5.318	130	72973	20.9962	ug/l	96
50) Benzene	4.964	78	283215	23.7840	ug/l	100
51) tert-Amyl methyl ether	5.013	73	165107	30.0979	ug/l	87
53) Iso-propylacetate	4.964	43	138662	42.0962	ug/l	89
54) Methyl methacrylate	5.470	41	65855	41.5853	ug/l	83
55) Dibromochloromethane	6.433	129	91520	36.8752	ug/l	99
56) 2-Chloroethylvinylether	5.720	63	462m	0.4336	ug/l	
57) cis-1,3-Dichloropropene	5.818	75	117635	33.9126	ug/l	99
58) trans-1,3-Dichloropropene	6.104	75	106511	36.8831	ug/l	98
59) Ethyl methacrylate	6.123	41	69804	45.6085	ug/l	82
60) 1,1,2-Trichloroethane	6.208	97	80403	38.9158	ug/l	97
61) 1,2-Dibromoethane	6.513	107	79835	37.0839	ug/l	92
62) 1,3-Dichloropropane	6.299	76	132487	39.2005	ug/l	99
63) 4-Methyl-2-Pentanone	5.885	43	75404	40.9675	ug/l	98
64) 2-Hexanone	6.318	43	56352	41.2955	ug/l	86
65) Tetrachloroethene	6.312	164	56188	24.8034	ug/l	99
67) Toluene	6.007	92	174486	27.0725	ug/l	98

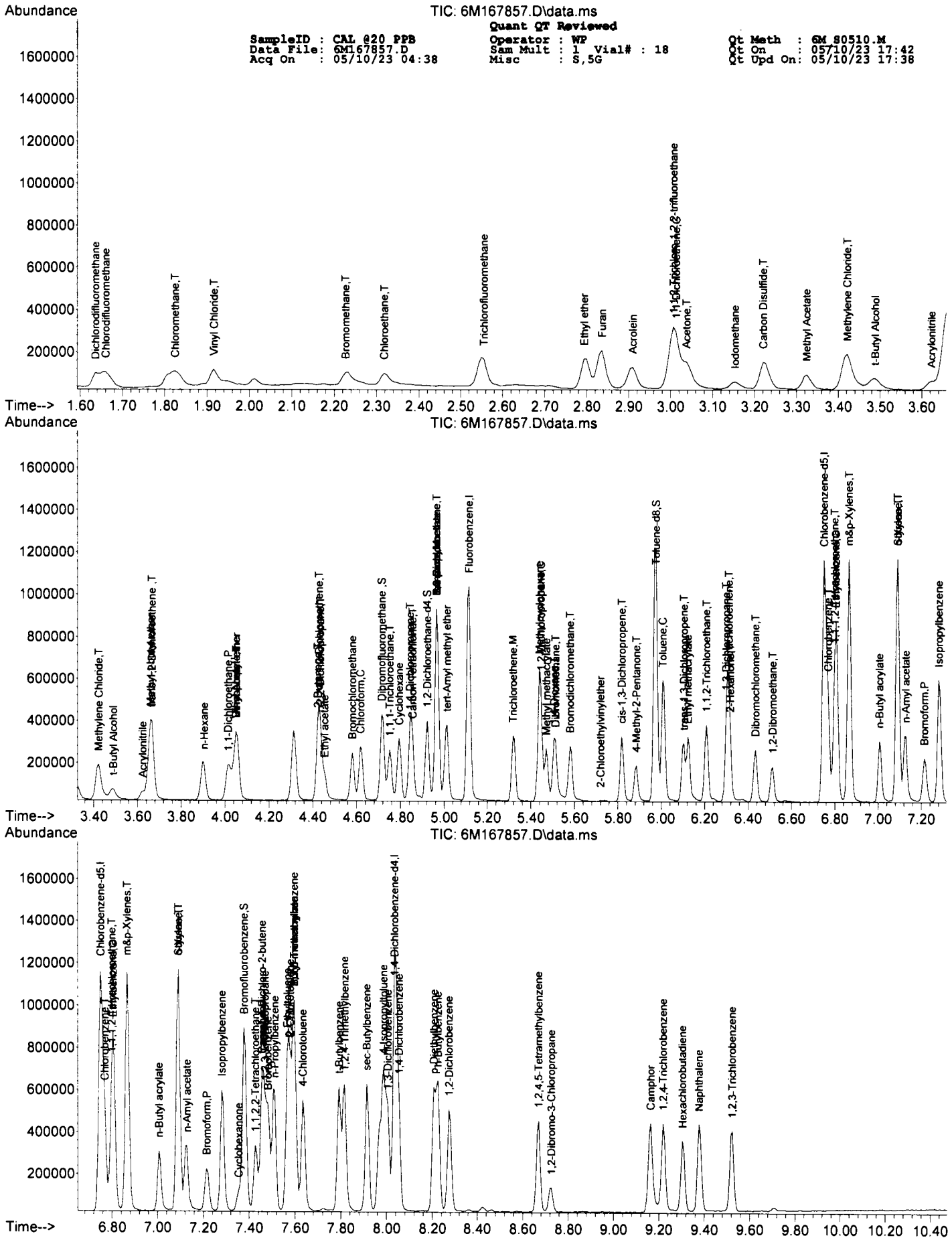
Quantitation Report (QT Reviewed)

SampleID : CAL @20 PPB Operator : WP Qt Meth : 6M_S0510.M
Data File: 6M167857.D Sam Mult : 1 Vial# : 18 Qt On : 05/10/23 17:42
Acq On : 05/10/23 04:38 **Misc : S,5G** **Qt Upd On: 05/10/23 17:38**

Data Path : G:\GcMsData\2023\GCMS_6\Data\0510-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.799	133	73440	31.4442	ug/l	95
69)	Chlorobenzene	6.769	112	203537	29.7623	ug/l	100
71)	n-Butyl acrylate	7.007	55	128508	41.1997	ug/l	98
72)	n-Amyl acetate	7.128	43	119064	43.6900	ug/l	98
73)	Bromoform	7.214	173	68086	41.8621	ug/l	94
74)	Ethylbenzene	6.805	106	77667	27.8663	ug/l	95
75)	1,1,2,2-Tetrachloroethane	7.427	83	114063	44.2115	ug/l	98
77)	Styrene	7.092	104	203700	33.0389	ug/l	95
78)	m&p-Xylenes	6.866	106	234147	58.6076	ug/l	94
79)	o-Xylene	7.092	106	125319	32.4695	ug/l	97
80)	trans-1,4-Dichloro-2-b...	7.458	53	37113	34.6731	ug/l	81
81)	1,3-Dichlorobenzene	8.006	146	159541	33.1872	ug/l	98
82)	1,4-Dichlorobenzene	8.055	146	155592	32.1542	ug/l	100
83)	1,2-Dichlorobenzene	8.275	146	157441	34.9166	ug/l	99
84)	Isopropylbenzene	7.281	105	277553	29.4015	ug/l	97
85)	Cyclohexanone	7.354	55	26088	249.4735	ug/l	95
86)	Camphene	7.458	93	93001	27.3139	ug/l	99
87)	1,2,3-Trichloropropane	7.470	75	126471	39.6336	ug/l	99
88)	2-Chlorotoluene	7.580	91	200905	33.7899	ug/l	98
89)	p-Ethyltoluene	7.567	105	281712	27.9726	ug/l	96
90)	4-Chlorotoluene	7.634	91	197164	35.6658	ug/l	96
91)	n-Propylbenzene	7.513	91	345660	31.1111	ug/l	98
92)	Bromobenzene	7.482	77	209591	36.2025	ug/l	93
93)	1,3,5-Trimethylbenzene	7.598	105	250214	37.8129	ug/l	91
94)	Butyl methacrylate	7.598	41	90124	43.8248	ug/l	89
95)	t-Butylbenzene	7.793	119	236809	30.6353	ug/l	99
96)	1,2,4-Trimethylbenzene	7.817	105	252323	34.7903	ug/l	95
97)	sec-Butylbenzene	7.915	105	300888	30.2193	ug/l	99
98)	4-Isopropyltoluene	7.988	119	274144	33.9497	ug/l	95
99)	n-Butylbenzene	8.226	91	282585	31.4831	ug/l	97
100)	p-Diethylbenzene	8.208	119	140369	28.6315	ug/l	96
101)	1,2,4,5-Tetramethylben...	8.671	119	177122	31.7438	ug/l	99
102)	1,2-Dibromo-3-Chloropr...	8.726	157	26326	36.3238	ug/l	91
103)	Camphor	9.165	95	93102	339.6455	ug/l	97
104)	Hexachlorobutadiene	9.305	225	48850	27.3210	ug/l	99
105)	1,2,4-Trichlorobenzene	9.220	180	97692	34.6177	ug/l	98
106)	1,2,3-Trichlorobenzene	9.524	180	94380	35.2201	ug/l	97
107)	Naphthalene	9.378	128	260522	39.9063	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M167857.D\data.ms
Quant QT Reviewed
SampleID : CAL @20 PPB
Data File: 6M167857.D
Acq On : 05/10/23 04:38
Operator : WP
Sam Mult : 1 Vial# : 18
Misc : S,5G
Qt Meth : 6M_S0510.M
Qt On : 05/10/23 17:42
Qt Upd On: 05/10/23 17:38
Dichlorodifluoromethane
Chlorodifluoromethane
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
Time-->

Abundance
TIC: 6M167857.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Bromochloromethane
Chloroform,C
Dibromofluoromethane ,S
1,1,1-Trichloroethane,T
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Time-->

Abundance
TIC: 6M167857.D\data.ms
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
Cyclohexanone
1,1,2,2-Tetrachloroethane,T
4-Chlorotoluene
sec-Butylbenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4,I
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 5 PPB Operator : WP Qt Meth : 6M_S0510.M
Data File: 6M167855.D Sam Mult : 1 Vial# : 16 Qt On : 05/10/23 17:49
Acq On : 05/10/23 03:54 Misc : S,5G Qt Upd On: 05/10/23 17:38

Data Path : G:\GcMsData\2023\GCMS_6\Data\0510-23
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.117	96	590566	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.751	117	424241	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.037	152	231778	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.715	111	162329	30.00	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.00%			
39) 1,2-Dichloroethane-d4	4.922	67	85521	34.47	ug/l	0.00
Spiked Amount 30.000			Recovery = 114.90%			
66) Toluene-d8	5.971	98	551754	34.58	ug/l	0.00
Spiked Amount 30.000			Recovery = 115.27%			
76) Bromofluorobenzene	7.379	174	173040	31.35	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.50%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.654	51	15948	4.4548	ug/l	50
6) Dichlorodifluoromethane	1.636	85	13489	4.4116	ug/l	93
7) Chloromethane	1.819	50	24382	7.1376	ug/l	90
8) Bromomethane	2.233	94	12558	5.6177	ug/l	85
9) Vinyl Chloride	1.916	62	18833	5.2475	ug/l	98
10) Chloroethane	2.319	64	13860	6.4760	ug/l	88
11) Trichlorofluoromethane	2.550	101	23347	5.1982	ug/l	97
12) Ethyl ether	2.800	59	15865	8.2009	ug/l	96
13) Furan	2.831	39	24583	6.7866	ug/l	83
14) 1,1,2-Trichloro-1,2,2-...	3.008	101	14011	5.5335	ug/l	94
15) Methylene Chloride	3.422	84	21204	7.5506	ug/l	84
16) Acrolein	2.904	56	18471	45.7485	ug/l	96
17) Acrylonitrile	3.623	53	8264	8.0634	ug/l	76
18) Iodomethane	3.154	142	9779	3.3622	ug/l	89
19) Acetone	3.038	43	35804	41.1903	ug/l	88
20) Carbon Disulfide	3.221	76	44985	4.8697	ug/l	100
21) t-Butyl Alcohol	3.489	59	12689	42.9359	ug/l	97
22) n-Hexane	3.898	57	16395	4.9467	ug/l	87
23) Di-isopropyl-ether	4.050	45	44298	6.7109	ug/l	88
24) 1,1-Dichloroethene	3.014	61	22104	6.0874	ug/l	98
25) Methyl Acetate	3.325	43	18396	7.9984	ug/l	100
26) Methyl-t-butyl ether	3.660	73	41491	7.5735	ug/l	87
27) 1,1-Dichloroethane	4.014	63	28722	6.1037	ug/l	95
28) trans-1,2-Dichloroethene	3.660	96	16403	5.5555	ug/l	94
29) Ethyl-t-butyl ether	4.050	59	5546m	6.4422	ug/l	
30) cis-1,2-Dichloroethene	4.428	61	30176	6.9583	ug/l	92
31) Bromochloromethane	4.581	49	16723	8.8146	ug/l	82
32) 2,2-Dichloropropane	4.434	77	19848	6.0453	ug/l	99
33) Ethyl acetate	4.453	43	21417m	8.7119	ug/l	
34) 1,4-Dioxane	5.507	88	15662	375.0991	ug/l	98
35) 1,1-Dichloropropene	4.843	75	20927	5.5744	ug/l	93
36) Chloroform	4.617	83	35513	7.3281	ug/l	91
38) Cyclohexane	4.794	56	18092	4.5661	ug/l	95
40) 1,2-Dichloroethane	4.965	62	27544	9.2738	ug/l	94
41) 2-Butanone	4.422	43	11460m	9.9366	ug/l	
42) 1,1,1-Trichloroethane	4.751	97	24642	5.7688	ug/l	94
43) Carbon Tetrachloride	4.855	117	21804	5.4713	ug/l	97
44) Vinyl Acetate	4.050	43	44388	7.7826	ug/l	100
45) Bromodichloromethane	5.580	83	27699	7.8157	ug/l	98
46) Methylcyclohexane	5.440	83	20338	4.4666	ug/l	88
47) Dibromomethane	5.513	174	14932	7.9998	ug/l	96
48) 1,2-Dichloropropane	5.446	63	19098	7.1533	ug/l	92
49) Trichloroethene	5.318	130	18774	5.6961	ug/l	92
50) Benzene	4.965	78	68834	6.0956	ug/l	100
51) tert-Amyl methyl ether	5.007	73	36636	7.0424	ug/l	84
53) Iso-propylacetate	4.965	43	33728	10.6651	ug/l	90
54) Methyl methacrylate	5.471	41	16012	10.5314	ug/l	75
55) Dibromochloromethane	6.434	129	24243	10.1740	ug/l	95
56) 2-Chloroethylvinylether	5.715	63	109m	0.1065	ug/l	
57) cis-1,3-Dichloropropene	5.818	75	27584	8.2827	ug/l	93
58) trans-1,3-Dichloropropene	6.099	75	26895	9.7005	ug/l	96
59) Ethyl methacrylate	6.123	41	15470	10.5280	ug/l	82
60) 1,1,2-Trichloroethane	6.208	97	19946	10.0554	ug/l	96
61) 1,2-Dibromoethane	6.513	107	20197	9.7716	ug/l	84
62) 1,3-Dichloropropane	6.300	76	32846	10.1225	ug/l	100
63) 4-Methyl-2-Pentanone	5.885	43	17642	9.9835	ug/l	95
64) 2-Hexanone	6.318	43	12284	9.3761	ug/l	91
65) Tetrachloroethene	6.312	164	13417	6.1690	ug/l	80
67) Toluene	6.013	92	42975	6.9450	ug/l	96

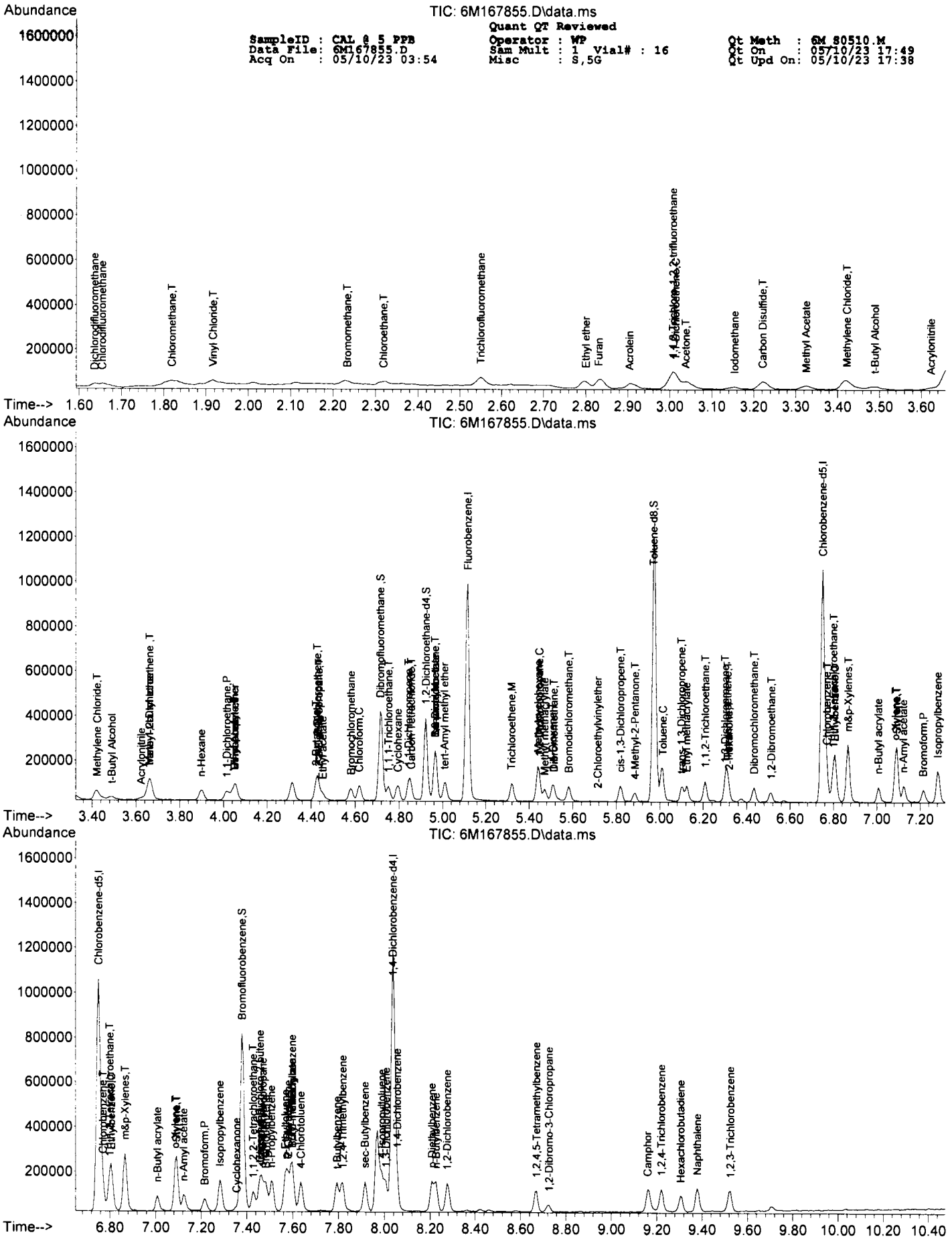
Quantitation Report (QT Reviewed)

SampleID : CAL @ 5 PPB Operator : WP Qt Meth : 6M_S0510.M
Data File: 6M167855.D Sam Mult : 1 Vial# : 16 Qt On : 05/10/23 17:49
Acq On : 05/10/23 03:54 **Misc : S,5G** **Qt Upd On: 05/10/23 17:38**

Data Path : G:\GcMsData\2023\GCMS_6\Data\0510-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.800	133	18598	8.2940	ug/l	96
69)	Chlorobenzene	6.769	112	51418	7.8312	ug/l	100
71)	n-Butyl acrylate	7.007	55	29213	9.7602	ug/l	97
72)	n-Amyl acetate	7.123	43	26572	10.1612	ug/l	97
73)	Bromoform	7.214	173	18165	11.6391	ug/l	98
74)	Ethylbenzene	6.806	106	18546	6.9345	ug/l	93
75)	1,1,2,2-Tetrachloroethane	7.428	83	30691	12.3971	ug/l	97
77)	Styrene	7.092	104	46407	7.8440	ug/l	97
78)	m&p-Xylenes	6.867	106	53654	13.9955	ug/l	100
79)	o-Xylene	7.086	106	28796	7.7752	ug/l	96
80)	trans-1,4-Dichloro-2-b...	7.458	53	8768	8.5367	ug/l	83
81)	1,3-Dichlorobenzene	8.007	146	41124	8.9148	ug/l	99
82)	1,4-Dichlorobenzene	8.056	146	41243	8.8822	ug/l	95
83)	1,2-Dichlorobenzene	8.275	146	39358	9.0964	ug/l	96
84)	Isopropylbenzene	7.281	105	63957	7.0604	ug/l	94
85)	Cyclohexanone	7.354	55	5265	52.4690	ug/l	93
86)	Camphene	7.458	93	20332	6.2230	ug/l	93
87)	1,2,3-Trichloropropane	7.470	75	32921	10.7514	ug/l	96
88)	2-Chlorotoluene	7.580	91	46731	8.1907	ug/l	99
89)	p-Ethyltoluene	7.568	105	61646	6.3790	ug/l	95
90)	4-Chlorotoluene	7.635	91	47389	8.9335	ug/l	97
91)	n-Propylbenzene	7.507	91	77209	7.2419	ug/l	97
92)	Bromobenzene	7.482	77	53529	9.6355	ug/l	96
93)	1,3,5-Trimethylbenzene	7.598	105	53345	8.4012	ug/l	91
94)	Butyl methacrylate	7.598	41	20523	10.4002	ug/l	87
95)	t-Butylbenzene	7.793	119	51842	6.9892	ug/l	97
96)	1,2,4-Trimethylbenzene	7.818	105	55071	7.9131	ug/l	95
97)	sec-Butylbenzene	7.915	105	63762	6.6736	ug/l	98
98)	4-Isopropyltoluene	7.989	119	70014	9.0357	ug/l	76
99)	n-Butylbenzene	8.226	91	60256	6.9960	ug/l	96
100)	p-Diethylbenzene	8.208	119	30683	6.5222	ug/l	94
101)	1,2,4,5-Tetramethylben...	8.671	119	38904	7.2661	ug/l	99
102)	1,2-Dibromo-3-Chloropr...	8.726	157	7231	10.3974	ug/l	90
103)	Camphor	9.159	95	19909	75.6897	ug/l	94
104)	Hexachlorobutadiene	9.305	225	10299	6.0027	ug/l	98
105)	1,2,4-Trichlorobenzene	9.220	180	22426	8.2816	ug/l	99
106)	1,2,3-Trichlorobenzene	9.525	180	22133	8.6074	ug/l	96
107)	Naphthalene	9.379	128	60906	9.7225	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M167855.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 5 PPB
Data File: 6M167855.D
Acq On : 05/10/23 03:54
Operator : WP
Sam Mult : 1 Vial# : 16
Misc : S,5G
Qt Meth : 6M_S0510.M
Qt On : 05/10/23 17:49
Qt Upd On: 05/10/23 17:38
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 2 PPB Operator : WP Qt Meth : 6M_S0510.M
Data File: 6M167856.D Sam Mult : 1 Vial# : 17 Qt On : 05/10/23 17:46
Acq On : 05/10/23 04:16 Misc : S,5G Qt Upd On: 05/10/23 17:38

Data Path : G:\GcMsData\2023\GCMS_6\Data\0510-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.117	96	586416	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.750	117	427531	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.037	152	230897	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.714	111	164775	30.67	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.23%			
39) 1,2-Dichloroethane-d4	4.922	67	86971	35.31	ug/l	0.00
Spiked Amount 30.000			Recovery = 117.70%			
66) Toluene-d8	5.970	98	545836	33.95	ug/l	0.00
Spiked Amount 30.000			Recovery = 113.17%			
76) Bromofluorobenzene	7.385	174	166954	30.37	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.23%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.660	51	6853	1.9278	ug/l	48
6) Dichlorodifluoromethane	1.636	85	5871	1.9337	ug/l	96
7) Chloromethane	1.825	50	10308	3.0389	ug/l	93
8) Bromomethane	2.227	94	5572	2.5102	ug/l	80
9) Vinyl Chloride	1.916	62	7452	2.0911	ug/l	89
10) Chloroethane	2.318	64	5641	2.6544	ug/l	96
11) Trichlorofluoromethane	2.550	101	9851	2.2089	ug/l	92
12) Ethyl ether	2.800	59	7398	3.8512	ug/l	89
13) Furan	2.837	39	9897	2.7516	ug/l	86
14) 1,1,2-Trichloro-1,2,2-...	3.013	101	5606	2.2297	ug/l	93
15) Methylene Chloride	3.416	84	9631	3.4538	ug/l	69
16) Acrolein	2.910	56	7105	17.7220	ug/l	96
17) Acrylonitrile	3.623	53	3788	3.7222	ug/l	65
18) Iodomethane	3.154	142	4151	1.4373	ug/l	80
19) Acetone	3.038	43	19348	22.4162	ug/l	90
20) Carbon Disulfide	3.221	76	20416	2.2257	ug/l	100
21) t-Butyl Alcohol	3.489	59	5341	18.2003	ug/l	98
22) n-Hexane	3.897	57	6834	2.0766	ug/l	84
23) Di-isopropyl-ether	4.050	45	19319	2.9474	ug/l	93
24) 1,1-Dichloroethene	3.013	61	9434	2.6165	ug/l	90
25) Methyl Acetate	3.324	43	7737	3.3878	ug/l	100
26) Methyl-t-butyl ether	3.660	73	17922	3.2945	ug/l	88
27) 1,1-Dichloroethane	4.013	63	13476	2.8840	ug/l	98
28) trans-1,2-Dichloroethene	3.666	96	6738	2.2982	ug/l	75
29) Ethyl-t-butyl ether	4.056	59	2721m	3.1830	ug/l	
30) cis-1,2-Dichloroethene	4.422	61	13400	3.1118	ug/l	86
31) Bromochloromethane	4.580	49	7282	3.8655	ug/l	88
32) 2,2-Dichloropropane	4.434	77	8883	2.7247	ug/l	94
33) Ethyl acetate	4.452	43	9559	3.9159	ug/l	94
34) 1,4-Dioxane	5.513	88	6289	151.6851	ug/l	96
35) 1,1-Dichloropropene	4.842	75	9780	2.6236	ug/l	91
36) Chloroform	4.617	83	18022	3.7451	ug/l	96
38) Cyclohexane	4.793	56	8274	2.1030	ug/l	87
40) 1,2-Dichloroethane	4.964	62	13089	4.4381	ug/l	99
41) 2-Butanone	4.422	43	4255	3.7155	ug/l	73
42) 1,1,1-Trichloroethane	4.745	97	10872	2.5632	ug/l	88
43) Carbon Tetrachloride	4.854	117	9749	2.4636	ug/l	97
44) Vinyl Acetate	4.044	43	19127	3.3773	ug/l	100
45) Bromodichloromethane	5.580	83	13564	3.8544	ug/l	99
46) Methylcyclohexane	5.440	83	9078	2.0078	ug/l	91
47) Dibromomethane	5.513	174	6694	3.6117	ug/l	90
48) 1,2-Dichloropropane	5.440	63	8986	3.3896	ug/l	89
49) Trichloroethene	5.318	130	9468	2.8930	ug/l	99
50) Benzene	4.964	78	31308	2.7921	ug/l	100
51) tert-Amyl methyl ether	5.007	73	15525	3.0054	ug/l	82
53) Iso-propylacetate	4.964	43	14188	4.4518	ug/l	93
54) Methyl methacrylate	5.470	41	6061	3.9558	ug/l	90
55) Dibromochloromethane	6.433	129	11172	4.6525	ug/l	91
56) 2-Chloroethylvinylether	5.720	63	29m	0.0281	ug/l	
57) cis-1,3-Dichloropropene	5.818	75	14204	4.2322	ug/l	92
58) trans-1,3-Dichloropropene	6.098	75	12472	4.4638	ug/l	99
59) Ethyl methacrylate	6.123	41	6964	4.7028	ug/l	80
60) 1,1,2-Trichloroethane	6.208	97	9397	4.7009	ug/l	81
61) 1,2-Dibromoethane	6.507	107	9846	4.7270	ug/l	100
62) 1,3-Dichloropropane	6.299	76	15097	4.6168	ug/l	98
63) 4-Methyl-2-Pentanone	5.885	43	7482	4.2014	ug/l	91
64) 2-Hexanone	6.318	43	6230	4.7186	ug/l	90
65) Tetrachloroethene	6.312	164	6490	2.9610	ug/l	75
67) Toluene	6.013	92	21086	3.3814	ug/l	94

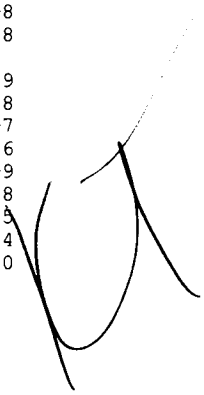
Quantitation Report (QT Reviewed)

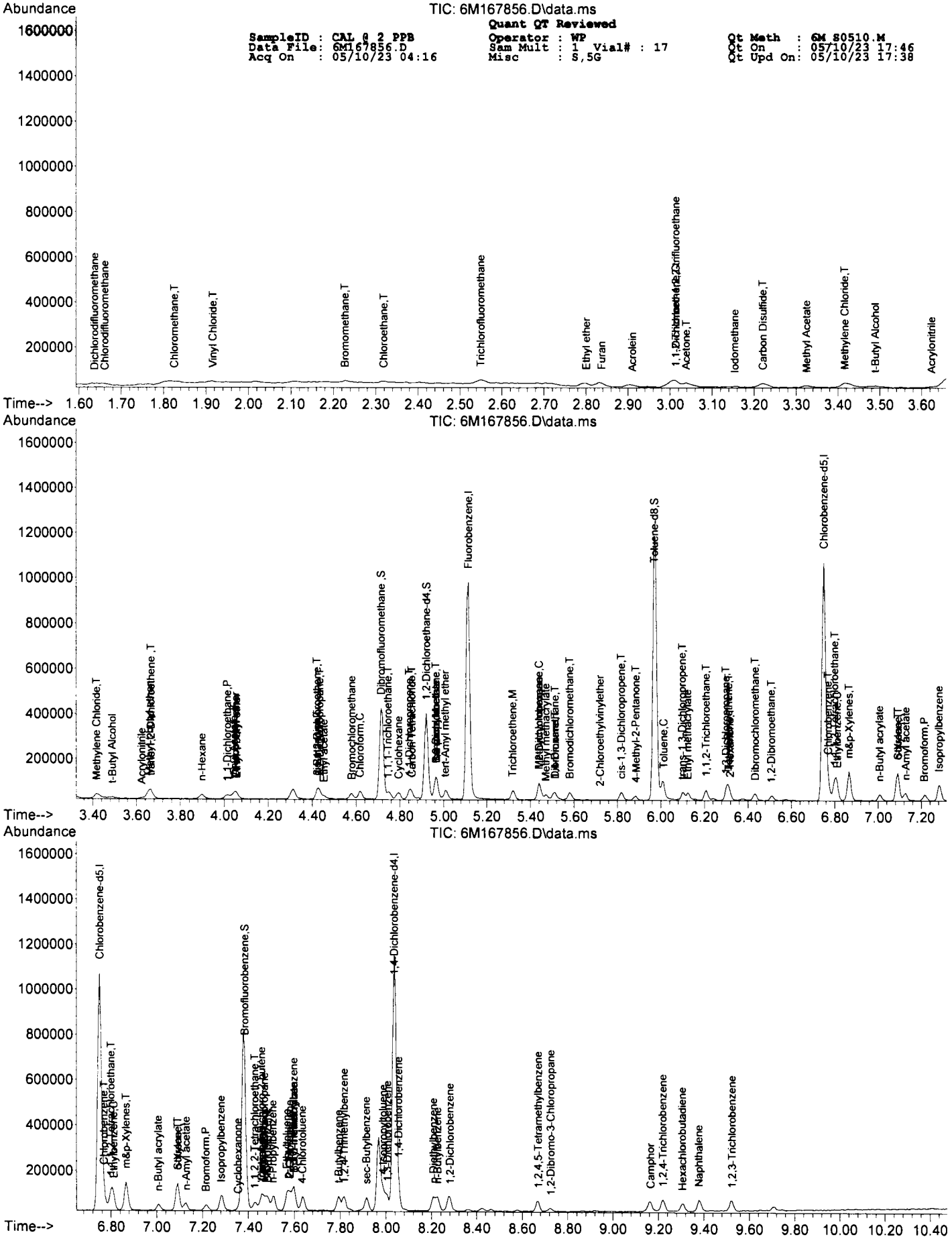
SampleID : CAL @ 2 PPB Operator : WP Qt Meth : 6M_S0510.M
Data File: 6M167856.D Sam Mult : 1 Vial# : 17 Qt On : 05/10/23 17:46
Acq On : 05/10/23 04:16 Misc : S,5G Qt Upd On: 05/10/23 17:38

Data Path : G:\GcMsData\2023\GCMS_6\Data\0510-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.799	133	9464	4.1881	ug/l	100
69)	Chlorobenzene	6.769	112	26950	4.0730	ug/l	92
71)	n-Butyl acrylate	7.007	55	13425	4.5025	ug/l	92
72)	n-Amyl acetate	7.128	43	12468	4.7860	ug/l	93
73)	Bromoform	7.214	173	8160	5.2484	ug/l	89
74)	Ethylbenzene	6.811	106	8870	3.3292	ug/l	98
75)	1,1,2,2-Tetrachloroethane	7.427	83	13939	5.6519	ug/l	93
77)	Styrene	7.092	104	22248	3.7749	ug/l	95
78)	m&p-Xylenes	6.866	106	26031	6.8160	ug/l	89
79)	o-Xylene	7.092	106	14276	3.8694	ug/l	96
80)	trans-1,4-Dichloro-2-b...	7.458	53	4056	3.9641	ug/l	80
81)	1,3-Dichlorobenzene	8.006	146	20404	4.4400	ug/l	94
82)	1,4-Dichlorobenzene	8.055	146	21218	4.5870	ug/l	92
83)	1,2-Dichlorobenzene	8.281	146	21067	4.8876	ug/l	98
84)	Isopropylbenzene	7.281	105	29882	3.3114	ug/l	95
85)	Cyclohexanone	7.354	55	2901	29.0206	ug/l	80
86)	Camphene	7.458	93	9408	2.8905	ug/l	100
87)	1,2,3-Trichloropropane	7.470	75	14704	4.8204	ug/l	98
88)	2-Chlorotoluene	7.580	91	23088	4.0622	ug/l	96
89)	p-Ethyltoluene	7.567	105	32551	3.3812	ug/l	97
90)	4-Chlorotoluene	7.634	91	22323	4.2243	ug/l	97
91)	n-Propylbenzene	7.506	91	36280	3.4159	ug/l	99
92)	Bromobenzene	7.482	77	26065	4.7097	ug/l	94
93)	1,3,5-Trimethylbenzene	7.598	105	21792	3.4451	ug/l	99
94)	Butyl methacrylate	7.598	41	9750	4.9597	ug/l	87
95)	t-Butylbenzene	7.793	119	24943	3.3756	ug/l	97
96)	1,2,4-Trimethylbenzene	7.817	105	25800	3.7213	ug/l	98
97)	sec-Butylbenzene	7.915	105	27790	2.9197	ug/l	98
98)	4-Isopropyltoluene	7.988	119	39350m	5.0977	ug/l	
99)	n-Butylbenzene	8.226	91	27979	3.2609	ug/l	99
100)	p-Diethylbenzene	8.208	119	14125	3.0139	ug/l	98
101)	1,2,4,5-Tetramethylben...	8.671	119	18163	3.4052	ug/l	97
102)	1,2-Dibromo-3-Chloropr...	8.726	157	3005	4.3374	ug/l	86
103)	Camphor	9.165	95	8889	33.9230	ug/l	99
104)	Hexachlorobutadiene	9.305	225	4575	2.6767	ug/l	88
105)	1,2,4-Trichlorobenzene	9.220	180	11473	4.2530	ug/l	95
106)	1,2,3-Trichlorobenzene	9.524	180	11071	4.3219	ug/l	94
107)	Naphthalene	9.378	128	29693	4.7580	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant QT Reviewed
SampleID : CAL @ 2 PPB
Data File: 6M167856.D
Acq On : 05/10/23 04:16
Operator : WP
Sam Mult : 1 Vial# : 17
Misc : S,5G
Qt Meth : 6M_S0510.M
Qt On : 05/10/23 17:46
Qt Upd On: 05/10/23 17:38
Dichlorodifluoromethane
Chlorodifluoromethane
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
Time-->

Abundance
TIC: 6M167856.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Bromochloromethane
Chloroform,C
Dibromofluoromethane,S
1,1,1-Trichloroethane,I
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,T
Ethylbenzene,C
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Time-->

Abundance
TIC: 6M167856.D\data.ms
Chlorobenzene-d5,I
Chlorobenzene,T
Ethylbenzene,C
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
1,1,2,2-Tetrachloroethane,T
4-Chlorotoluene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,4-Dichlorobenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 50 PPB Operator : WP Qt Meth : 6M_S0510.M
Data File: 6M167858.D Sam Mult : 1 Vial# : 19 Qt On : 05/10/23 17:41
Acq On : 05/10/23 05:00 Misc : S,5G Qt Upd On: 05/10/23 17:38

Data Path : G:\GcMsData\2023\GCMS_6\Data\0510-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.117	96	608600	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.751	117	429928	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.037	152	239961	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.715	111	159468	28.60	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.33%			
39) 1,2-Dichloroethane-d4	4.922	67	84988	33.24	ug/l	0.00
Spiked Amount 30.000			Recovery = 110.80%			
66) Toluene-d8	5.970	98	578754	35.80	ug/l	0.00
Spiked Amount 30.000			Recovery = 119.33%			
76) Bromofluorobenzene	7.379	174	182210	31.89	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.30%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.660	51	189860	51.4630	ug/l	52
6) Dichlorodifluoromethane	1.636	85	157700	50.0473	ug/l	100
7) Chloromethane	1.825	50	264451	75.1211	ug/l	100
8) Bromomethane	2.227	94	115677	50.2133	ug/l	97
9) Vinyl Chloride	1.916	62	207393	56.0739	ug/l	99
10) Chloroethane	2.319	64	134731	61.0864	ug/l	92
11) Trichlorofluoromethane	2.550	101	257880	55.7160	ug/l	99
12) Ethyl ether	2.794	59	175626	88.0945	ug/l	92
13) Furan	2.831	39	264193	70.7746	ug/l	86
14) 1,1,2-Trichloro-1,2,2-...	3.001	101	142162	54.4820	ug/l	98
15) Methylene Chloride	3.422	84	212040	73.2690	ug/l	81
16) Acrolein	2.910	56	200371	481.5682	ug/l	94
17) Acrylonitrile	3.617	53	81474	77.1410	ug/l	87
18) Iodomethane	3.154	142	111032	37.0433	ug/l	100
19) Acetone	3.038	43	315323	352.0105	ug/l	87
20) Carbon Disulfide	3.221	76	453522	47.6396	ug/l	100
21) t-Butyl Alcohol	3.483	59	111850	367.2536	ug/l	85
22) n-Hexane	3.898	57	190834	55.8728	ug/l	94
23) Di-isopropyl-ether	4.050	45	541224	79.5623	ug/l	89
24) 1,1-Dichloroethene	3.008	61	237298	63.4148	ug/l	99
25) Methyl Acetate	3.325	43	183699	77.5037	ug/l	100
26) Methyl-t-butyl ether	3.660	73	465651	82.4778	ug/l	92
27) 1,1-Dichloroethane	4.013	63	332253	68.5143	ug/l	96
28) trans-1,2-Dichloroethene	3.666	96	179922	59.1316	ug/l	94
29) Ethyl-t-butyl ether	4.056	59	66626m	75.0986	ug/l	
30) cis-1,2-Dichloroethene	4.422	61	327298	73.2359	ug/l	90
31) Bromochloromethane	4.580	49	166773	85.3006	ug/l	82
32) 2,2-Dichloropropane	4.434	77	223237	65.9782	ug/l	98
33) Ethyl acetate	4.452	43	220160	86.9023	ug/l	100
34) 1,4-Dioxane	5.507	88	158373	3680.5811	ug/l	87
35) 1,1-Dichloropropene	4.843	75	235753	60.9373	ug/l	92
36) Chloroform	4.617	83	354282	70.9393	ug/l	95
38) Cyclohexane	4.794	56	228429	55.9433	ug/l	89
40) 1,2-Dichloroethane	4.965	62	278029	90.8360	ug/l	96
41) 2-Butanone	4.422	43	99479	83.6994	ug/l	90
42) 1,1,1-Trichloroethane	4.751	97	261944	59.5050	ug/l	98
43) Carbon Tetrachloride	4.855	117	234897	57.1960	ug/l	100
44) Vinyl Acetate	4.038	43	506089	86.1043	ug/l	100
45) Bromodichloromethane	5.580	83	285962	78.2972	ug/l	98
46) Methylcyclohexane	5.440	83	254281	54.1895	ug/l	89
47) Dibromomethane	5.513	174	149556	77.7499	ug/l	95
48) 1,2-Dichloropropane	5.446	63	206058	74.8939	ug/l	95
49) Trichloroethene	5.318	130	196830	57.9494	ug/l	97
50) Benzene	4.965	78	752524	64.6648	ug/l	100
51) tert-Amyl methyl ether	5.013	73	433421	80.8462	ug/l	88
53) Iso-propylacetate	4.965	43	362274	113.0390	ug/l	90
54) Methyl methacrylate	5.471	41	174690	113.3770	ug/l	81
55) Dibromochloromethane	6.434	129	234972	97.3060	ug/l	97
56) 2-Chloroethylvinylether	5.720	63	940	0.9067	ug/l	83
57) cis-1,3-Dichloropropene	5.818	75	312854	92.6985	ug/l	100
58) trans-1,3-Dichloropropene	6.098	75	288645	102.7314	ug/l	99
59) Ethyl methacrylate	6.123	41	186714	125.3857	ug/l	83
60) 1,1,2-Trichloroethane	6.208	97	197626	98.3114	ug/l	97
61) 1,2-Dibromoethane	6.513	107	203625	97.2140	ug/l	92
62) 1,3-Dichloropropane	6.300	76	338823	103.0379	ug/l	100
63) 4-Methyl-2-Pentanone	5.885	43	197872	110.4931	ug/l	95
64) 2-Hexanone	6.318	43	147591	111.1626	ug/l	88
65) Tetrachloroethene	6.312	164	149249	67.7149	ug/l	95
67) Toluene	6.007	92	466135	74.3335	ug/l	99

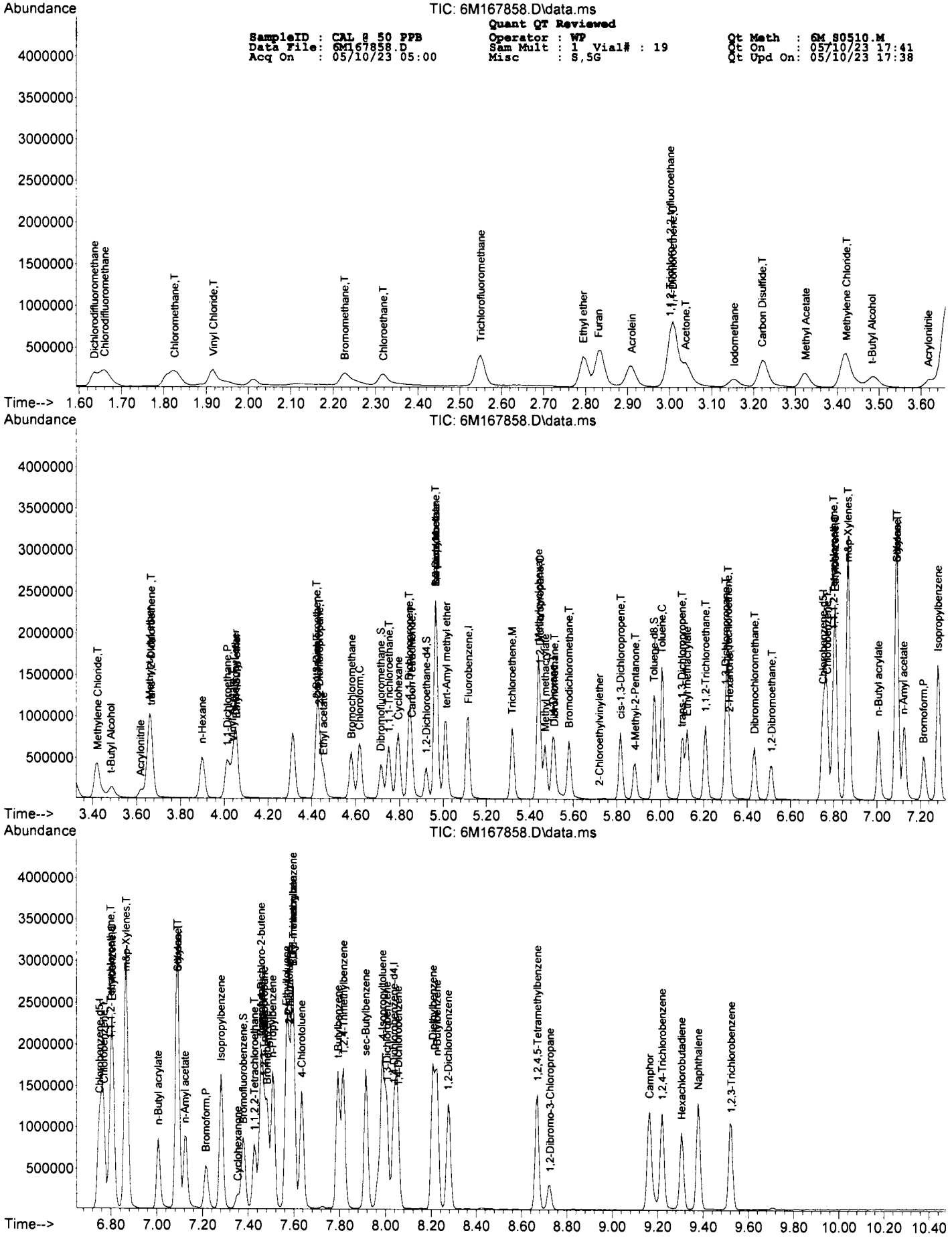
Quantitation Report (QT Reviewed)

SampleID : CAL @ 50 PPB Operator : WP Qt Meth : 6M_S0510.M
Data File: 6M167858.D Sam Mult : 1 Vial# : 19 Qt On : 05/10/23 17:41
Acq On : 05/10/23 05:00 Misc : S,5G Qt Upd On: 05/10/23 17:38

Data Path : G:\GcMsData\2023\GCMS_6\Data\0510-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,1,1,2-Tetrachloroethane	6.800	133	192701	84.8003	ug/l	99
69) Chlorobenzene	6.769	112	538894	80.9901	ug/l	100
71) n-Butyl acrylate	7.007	55	373270	120.4590	ug/l	96
72) n-Amyl acetate	7.123	43	342474	126.4972	ug/l	96
73) Bromoform	7.214	173	173337	107.2771	ug/l	94
74) Ethylbenzene	6.806	106	217903	78.6970	ug/l	90
75) 1,1,2,2-Tetrachloroethane	7.428	83	287579	112.2017	ug/l	99
77) Styrene	7.092	104	577875	94.3453	ug/l	99
78) m&p-Xylenes	6.867	106	659879	166.2577	ug/l	97
79) o-Xylene	7.092	106	345245	90.0406	ug/l	100
80) trans-1,4-Dichloro-2-b...	7.458	53	100128	94.1617	ug/l	84
81) 1,3-Dichlorobenzene	8.007	146	425526	89.0997	ug/l	99
82) 1,4-Dichlorobenzene	8.055	146	417980	86.9475	ug/l	99
83) 1,2-Dichlorobenzene	8.275	146	418479	93.4200	ug/l	98
84) Isopropylbenzene	7.281	105	777440	82.8976	ug/l	98
85) Cyclohexanone	7.354	55	53127	511.3884	ug/l	96
86) Camphene	7.458	93	262995	77.7491	ug/l	99
87) 1,2,3-Trichloropropane	7.470	75	330554	104.2718	ug/l	96
88) 2-Chlorotoluene	7.580	91	544695	92.2151	ug/l	99
89) p-Ethyltoluene	7.568	105	808428	80.8018	ug/l	95
90) 4-Chlorotoluene	7.635	91	520523	94.7799	ug/l	97
91) n-Propylbenzene	7.507	91	964370	87.3700	ug/l	98
92) Bromobenzene	7.482	77	565535	98.3279	ug/l	95
93) 1,3,5-Trimethylbenzene	7.598	105	681825	103.7179	ug/l	92
94) Butyl methacrylate	7.598	41	249960	122.3493	ug/l	92
95) t-Butylbenzene	7.793	119	672029	87.5113	ug/l	99
96) 1,2,4-Trimethylbenzene	7.818	105	713352	99.0050	ug/l	98
97) sec-Butylbenzene	7.915	105	862953	87.2406	ug/l	99
98) 4-Isopropyltoluene	7.988	119	749182	93.3891	ug/l	98
99) n-Butylbenzene	8.226	91	806889	90.4887	ug/l	98
100) p-Diethylbenzene	8.208	119	411358	84.4588	ug/l	96
101) 1,2,4,5-Tetramethylben...	8.671	119	564183	101.7791	ug/l	99
102) 1,2-Dibromo-3-Chloropr...	8.726	157	68298	94.8564	ug/l	94
103) Camphor	9.165	95	273180	1003.1543	ug/l	98
104) Hexachlorobutadiene	9.305	225	135725	76.4088	ug/l	96
105) 1,2,4-Trichlorobenzene	9.220	180	273118	97.4186	ug/l	99
106) 1,2,3-Trichlorobenzene	9.525	180	267037	100.3078	ug/l	98
107) Naphthalene	9.378	128	758473	116.9470	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed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SampleID : CAL @ 50 PPB
Data File: 6M167858.D
Acq On : 05/10/23 05:00
Quant QT Reviewed
Operator : WP
Sam Mult : 1 Vial# : 19
Misc : S,5G
Qt Meth : 6M_S0510.M
Qt On : 05/10/23 17:41
Qt Upd On: 05/10/23 17:38
Dichlorodifluoromethane
Chlorodifluoromethane
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
Time-->

Abundance
TIC: 6M167858.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Bromochloromethane
Chloroform,C
Dibromofluoromethane ,S
1,1,1-Trichloroethane,T
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Time-->

Abundance
TIC: 6M167858.D\data.ms
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone,S
4-Chlorotoluene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 100 PPB Operator : WP Qt Meth : 6M_S0510.M
Data File: 6M167859.D Sam Mult : 1 Vial# : 20 Qt On : 05/10/23 17:41
Acq On : 05/10/23 05:21 Misc : S,5G Qt Upd On: 05/10/23 17:38

Data Path : G:\GcMsData\2023\GCMS_6\Data\0510-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.117	96	628668	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.751	117	455392	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.037	152	245701	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.715	111	165010	28.65	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.50%			
39) 1,2-Dichloroethane-d4	4.922	67	86042	32.58	ug/l	0.00
Spiked Amount 30.000			Recovery = 108.60%			
66) Toluene-d8	5.971	98	595906	34.80	ug/l	0.00
Spiked Amount 30.000			Recovery = 116.00%			
76) Bromofluorobenzene	7.379	174	191442	32.72	ug/l	0.00
Spiked Amount 30.000			Recovery = 109.07%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.660	51	394209	103.4425	ug/l	49
6) Dichlorodifluoromethane	1.636	85	336061	103.2470	ug/l	100
7) Chloromethane	1.825	50	536442	147.5198	ug/l	99
8) Bromomethane	2.227	94	251799	105.8124	ug/l	97
9) Vinyl Chloride	1.916	62	435627	114.0228	ug/l	99
10) Chloroethane	2.319	64	283910	124.6144	ug/l	90
11) Trichlorofluoromethane	2.550	101	532978	111.4762	ug/l	100
12) Ethyl ether	2.794	59	368790	179.0810	ug/l	93
13) Furan	2.831	39	567939	147.2884	ug/l	86
14) 1,1,2-Trichloro-1,2,2-...	3.002	101	300156	111.3594	ug/l	99
15) Methylene Chloride	3.422	84	442731	148.0994	ug/l	78
16) Acrolein	2.910	56	419286	975.5374	ug/l	95
17) Acrylonitrile	3.617	53	166523	152.6340	ug/l	83
18) Iodomethane	3.154	142	267204	86.3009	ug/l	97
19) Acetone	3.038	43	641820	693.6235	ug/l	90
20) Carbon Disulfide	3.221	76	947546	96.3564	ug/l	100
21) t-Butyl Alcohol	3.483	59	234757	746.2069	ug/l	83
22) n-Hexane	3.898	57	412678	116.9680	ug/l	95
23) Di-isopropyl-ether	4.050	45	1148900	163.5020	ug/l	88
24) 1,1-Dichloroethene	3.008	61	501720	129.7982	ug/l	98
25) Methyl Acetate	3.325	43	382302	156.1467	ug/l	100
26) Methyl-t-butyl ether	3.660	73	993410	170.3396	ug/l	93
27) 1,1-Dichloroethane	4.014	63	695110	138.7638	ug/l	96
28) trans-1,2-Dichloroethene	3.666	96	380302	120.9969	ug/l	94
29) Ethyl-t-butyl ether	4.050	59	141844m	154.7781	ug/l	
30) cis-1,2-Dichloroethene	4.428	61	693800	150.2884	ug/l	92
31) Bromochloromethane	4.581	49	348608	172.6133	ug/l	82
32) 2,2-Dichloropropane	4.434	77	481400	137.7371	ug/l	99
33) Ethyl acetate	4.453	43	457643	174.8760	ug/l	100
34) 1,4-Dioxane	5.507	88	330611	7438.1192	ug/l	89
35) 1,1-Dichloropropene	4.843	75	507122	126.8963	ug/l	93
36) Chloroform	4.617	83	731029	141.7043	ug/l	96
38) Cyclohexane	4.794	56	492980	116.8791	ug/l	89
40) 1,2-Dichloroethane	4.965	62	577874	182.7729	ug/l	98
41) 2-Butanone	4.422	43	209245	170.4342	ug/l	91
42) 1,1,1-Trichloroethane	4.751	97	551288	121.2368	ug/l	99
43) Carbon Tetrachloride	4.855	117	486089	114.5816	ug/l	98
44) Vinyl Acetate	4.038	43	1072587	176.6612	ug/l	100
45) Bromodichloromethane	5.580	83	605444	160.4806	ug/l	99
46) Methylcyclohexane	5.440	83	548237	113.1047	ug/l	90
47) Dibromomethane	5.513	174	311867	156.9553	ug/l	98
48) 1,2-Dichloropropane	5.446	63	434375	152.8384	ug/l	96
49) Trichloroethene	5.318	130	409560	116.7309	ug/l	98
50) Benzene	4.965	78	1566409	130.3056	ug/l	100
51) tert-Amyl methyl ether	5.013	73	945337	170.7052	ug/l	90
53) Iso-propylacetate	4.965	43	793661	233.7956	ug/l	89
54) Methyl methacrylate	5.471	41	374357	229.3788	ug/l	81
55) Dibromochloromethane	6.434	129	497241	194.4021	ug/l	98
56) 2-Chloroethylvinylether	5.721	63	2302	2.0962	ug/l	95
57) cis-1,3-Dichloropropene	5.818	75	683426	191.1757	ug/l	98
58) trans-1,3-Dichloropropene	6.105	75	616079	207.0073	ug/l	98
59) Ethyl methacrylate	6.123	41	417918	264.9551	ug/l	82
60) 1,1,2-Trichloroethane	6.208	97	417413	196.0360	ug/l	97
61) 1,2-Dibromoethane	6.507	107	430977	194.2505	ug/l	92
62) 1,3-Dichloropropane	6.300	76	719371	206.5320	ug/l	100
63) 4-Methyl-2-Pentanone	5.885	43	438526	231.1834	ug/l	98
64) 2-Hexanone	6.318	43	321883	228.8796	ug/l	87
65) Tetrachloroethene	6.312	164	309341	132.5015	ug/l	97
67) Toluene	6.007	92	986356	148.4967	ug/l	100

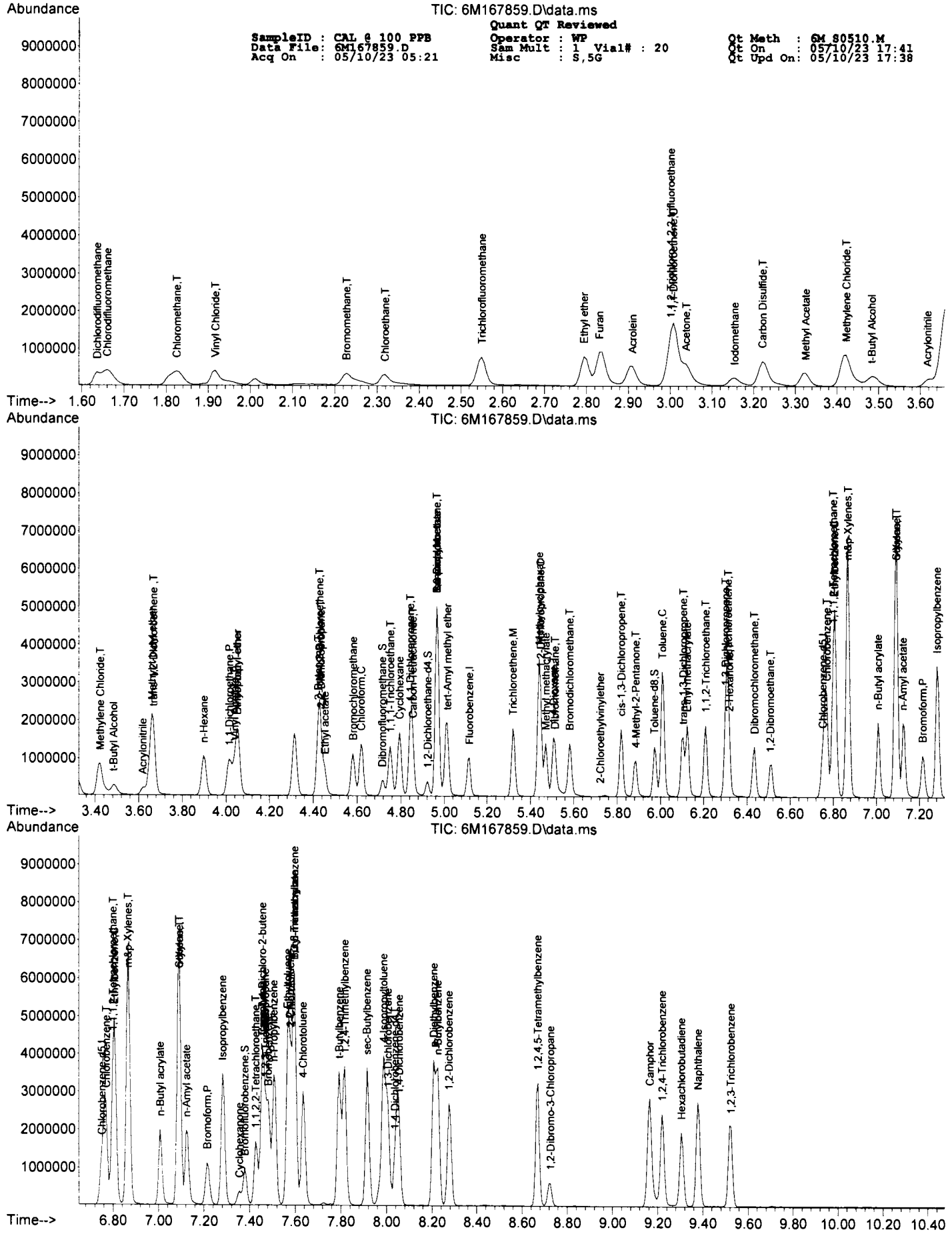
Quantitation Report (QT Reviewed)

SampleID : CAL @ 100 PPB Operator : WP Qt Meth : 6M_S0510.M
Data File: 6M167859.D Sam Mult : 1 Vial# : 20 Qt On : 05/10/23 17:41
Acq On : 05/10/23 05:21 Misc : S,5G Qt Upd On: 05/10/23 17:38

Data Path : G:\GcMsData\2023\GCMS_6\Data\0510-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.800	133	416300	172.9538	ug/l	100
69)	Chlorobenzene	6.769	112	1124203	159.5084	ug/l	99
71)	n-Butyl acrylate	7.007	55	848160	267.3177	ug/l	97
72)	n-Amyl acetate	7.123	43	757921	273.4079	ug/l	95
73)	Bromoform	7.214	173	368242	222.5783	ug/l	95
74)	Ethylbenzene	6.806	106	482889	170.3240	ug/l	93
75)	1,1,2,2-Tetrachloroethane	7.428	83	623313	237.5101	ug/l	100
77)	Styrene	7.092	104	1248535	199.0769	ug/l	99
78)	m&p-Xylenes	6.867	106	1404068	345.4932	ug/l	100
79)	o-Xylene	7.092	106	733300	186.7783	ug/l	99
80)	trans-1,4-Dichloro-2-b...	7.458	53	214410	196.9236	ug/l	80
81)	1,3-Dichlorobenzene	8.007	146	890867	182.1783	ug/l	98
82)	1,4-Dichlorobenzene	8.056	146	873675	177.4947	ug/l	98
83)	1,2-Dichlorobenzene	8.275	146	881334	192.1500	ug/l	99
84)	Isopropylbenzene	7.281	105	1672657	174.1869	ug/l	98
85)	Cyclohexanone	7.354	55	114869	1079.8718	ug/l	95
86)	Camphene	7.458	93	576549	166.4630	ug/l	98
87)	1,2,3-Trichloropropane	7.470	75	698705	215.2544	ug/l	96
88)	2-Chlorotoluene	7.580	91	1142511	188.9047	ug/l	99
89)	p-Ethyltoluene	7.568	105	1715076	167.4159	ug/l	96
90)	4-Chlorotoluene	7.635	91	1104162	196.3553	ug/l	97
91)	n-Propylbenzene	7.507	91	2030747	179.6835	ug/l	99
92)	Bromobenzene	7.483	77	1193901	202.7306	ug/l	95
93)	1,3,5-Trimethylbenzene	7.598	105	1449033	215.2746	ug/l	91
94)	Butyl methacrylate	7.598	41	541154	258.6936	ug/l	96
95)	t-Butylbenzene	7.793	119	1452049	184.6677	ug/l	99
96)	1,2,4-Trimethylbenzene	7.818	105	1518587	205.8386	ug/l	98
97)	sec-Butylbenzene	7.915	105	1848588	182.5179	ug/l	99
98)	4-Isopropyltoluene	7.989	119	1579231	192.2596	ug/l	99
99)	n-Butylbenzene	8.226	91	1702416	186.4575	ug/l	98
100)	p-Diethylbenzene	8.208	119	898482	180.1641	ug/l	96
101)	1,2,4,5-Tetramethylben...	8.671	119	1288181	226.9600	ug/l	99
102)	1,2-Dibromo-3-Chloropr...	8.726	157	144148	195.5245	ug/l	93
103)	Camphor	9.165	95	642042	2302.5868	ug/l	99
104)	Hexachlorobutadiene	9.305	225	286118	157.3123	ug/l	99
105)	1,2,4-Trichlorobenzene	9.220	180	571259	199.0023	ug/l	99
106)	1,2,3-Trichlorobenzene	9.525	180	556067	203.9971	ug/l	98
107)	Naphthalene	9.379	128	1657044	249.5266	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed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Data File: 6M167859.D
Acq On : 05/10/23 05:21
Quant QT Reviewed
Operator : WP
Sam Mult : 1 Vial# : 20
Misc : S,5G
Qt Meth : 6M_S0510.M
Qt On : 05/10/23 17:41
Qt Upd On: 05/10/23 17:38
Dichlorodifluoromethane
Chlorodifluoromethane
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
Time-->

Abundance
TIC: 6M167859.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Ethyl acetate
Bromochloromethane
Chloroform,C
Dibromofluoromethane,S
1,1,1-Trichloroethane,T
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene,C
Toluene-d8,S
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Time-->

Abundance
TIC: 6M167859.D\data.ms
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
4-Chlorotoluene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 250PPB Operator : WP Qt Meth : 6M_S0510.M
Data File: 6M167860.D Sam Mult : 1 Vial# : 21 Qt On : 05/10/23 17:40
Acq On : 05/10/23 05:43 Misc : S,5G Qt Upd On: 05/10/23 17:38

Data Path : G:\GcMsData\2023\GCMS_6\Data\0510-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.117	96	646013	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.751	117	481552	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.037	152	256754	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.714	111	167892	28.36	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.53%			
39) 1,2-Dichloroethane-d4	4.922	67	89359	32.93	ug/l	0.00
Spiked Amount 30.000			Recovery = 109.77%			
66) Toluene-d8	5.970	98	634973	35.06	ug/l	0.00
Spiked Amount 30.000			Recovery = 116.87%			
76) Bromofluorobenzene	7.379	174	198915	32.54	ug/l	0.00
Spiked Amount 30.000			Recovery = 108.47%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.660	51	1086690	277.4970	ug/l	53
6) Dichlorodifluoromethane	1.636	85	890703	266.3008	ug/l	97
7) Chloromethane	1.825	50	1339074	358.3539	ug/l	99
8) Bromomethane	2.227	94	708647	289.7960	ug/l	96
9) Vinyl Chloride	1.916	62	1155900	294.4269	ug/l	99
10) Chloroethane	2.319	64	744522	318.0133	ug/l	91
11) Trichlorofluoromethane	2.550	101	1377691	280.4172	ug/l	98
12) Ethyl ether	2.794	59	985136	465.5290	ug/l	92
13) Furan	2.831	39	1585335	400.0995	ug/l	82
14) 1,1,2-Trichloro-1,2,2-...	3.001	101	772555	278.9261	ug/l	98
15) Methylene Chloride	3.422	84	1164909	379.2149	ug/l	80
16) Acrolein	2.904	56	1083351	2452.9169	ug/l	94
17) Acrylonitrile	3.617	53	430644	384.1277	ug/l	89
18) Iodomethane	3.154	142	878127	276.0004	ug/l	100
19) Acetone	3.038	43	1601866	1684.6778	ug/l	92
20) Carbon Disulfide	3.221	76	2441166	241.5782	ug/l	100
21) t-Butyl Alcohol	3.483	59	603179	1865.8083	ug/l	85
22) n-Hexane	3.898	57	1062484	293.0611	ug/l	95
23) Di-isopropyl-ether	4.050	45	3086412	427.4397	ug/l	89
24) 1,1-Dichloroethene	3.007	61	1322209	332.8799	ug/l	98
25) Methyl Acetate	3.318	43	985486	391.7028	ug/l	100
26) Methyl-t-butyl ether	3.660	73	2715952	453.1993	ug/l	94
27) 1,1-Dichloroethane	4.013	63	1853636	360.1034	ug/l	98
28) trans-1,2-Dichloroethene	3.666	96	1005845	311.4275	ug/l	96
29) Ethyl-t-butyl ether	4.050	59	383000m	406.7030	ug/l	
30) cis-1,2-Dichloroethene	4.422	61	1848216	389.6045	ug/l	90
31) Bromochloromethane	4.580	49	903439	435.3273	ug/l	82
32) 2,2-Dichloropropane	4.434	77	1288984	358.8991	ug/l	99
33) Ethyl acetate	4.452	43	1148505	427.0871	ug/l	98
34) 1,4-Dioxane	5.507	88	835557	18293.7195	ug/l	91
35) 1,1-Dichloropropene	4.843	75	1311855	319.4498	ug/l	94
36) Chloroform	4.617	83	1918954	361.9872	ug/l	97
38) Cyclohexane	4.794	56	1296400	299.1072	ug/l	88
40) 1,2-Dichloroethane	4.964	62	1496664	460.6627	ug/l	97
41) 2-Butanone	4.422	43	556336	440.9801	ug/l	92
42) 1,1,1-Trichloroethane	4.751	97	1472098	315.0450	ug/l	99
43) Carbon Tetrachloride	4.855	117	1272243	291.8430	ug/l	100
44) Vinyl Acetate	4.038	43	2901052	464.9907	ug/l	100
45) Bromodichloromethane	5.580	83	1608826	414.9901	ug/l	98
46) Methylcyclohexane	5.440	83	1457211	292.5598	ug/l	91
47) Dibromomethane	5.513	174	820706	401.9521	ug/l	98
48) 1,2-Dichloropropane	5.446	63	1174101	402.0252	ug/l	97
49) Trichloroethene	5.318	130	1093627	303.3316	ug/l	97
50) Benzene	4.964	78	4160744	336.8287	ug/l	100
51) tert-Amyl methyl ether	5.013	73	2537233	445.8622	ug/l	93
53) Iso-propylacetate	4.964	43	2209743	615.5812	ug/l	89
54) Methyl methacrylate	5.470	41	1016258	588.8620	ug/l	81
55) Dibromochloromethane	6.434	129	1340928	495.7716	ug/l	98
56) 2-Chloroethylvinylether	5.720	63	8492	7.3128	ug/l	94
57) cis-1,3-Dichloropropene	5.818	75	1888614	499.6047	ug/l	100
58) trans-1,3-Dichloropropene	6.098	75	1721683	547.0723	ug/l	98
59) Ethyl methacrylate	6.123	41	1130707	677.9124	ug/l	83
60) 1,1,2-Trichloroethane	6.208	97	1104952	490.7447	ug/l	98
61) 1,2-Dibromoethane	6.513	107	1148178	489.3949	ug/l	90
62) 1,3-Dichloropropane	6.300	76	1913612	519.5537	ug/l	100
63) 4-Methyl-2-Pentanone	5.885	43	1180137	588.3502	ug/l	99
64) 2-Hexanone	6.318	43	858396	577.2168	ug/l	90
65) Tetrachloroethene	6.312	164	816044	330.5514	ug/l	94
67) Toluene	6.007	92	2649123	377.1617	ug/l	96

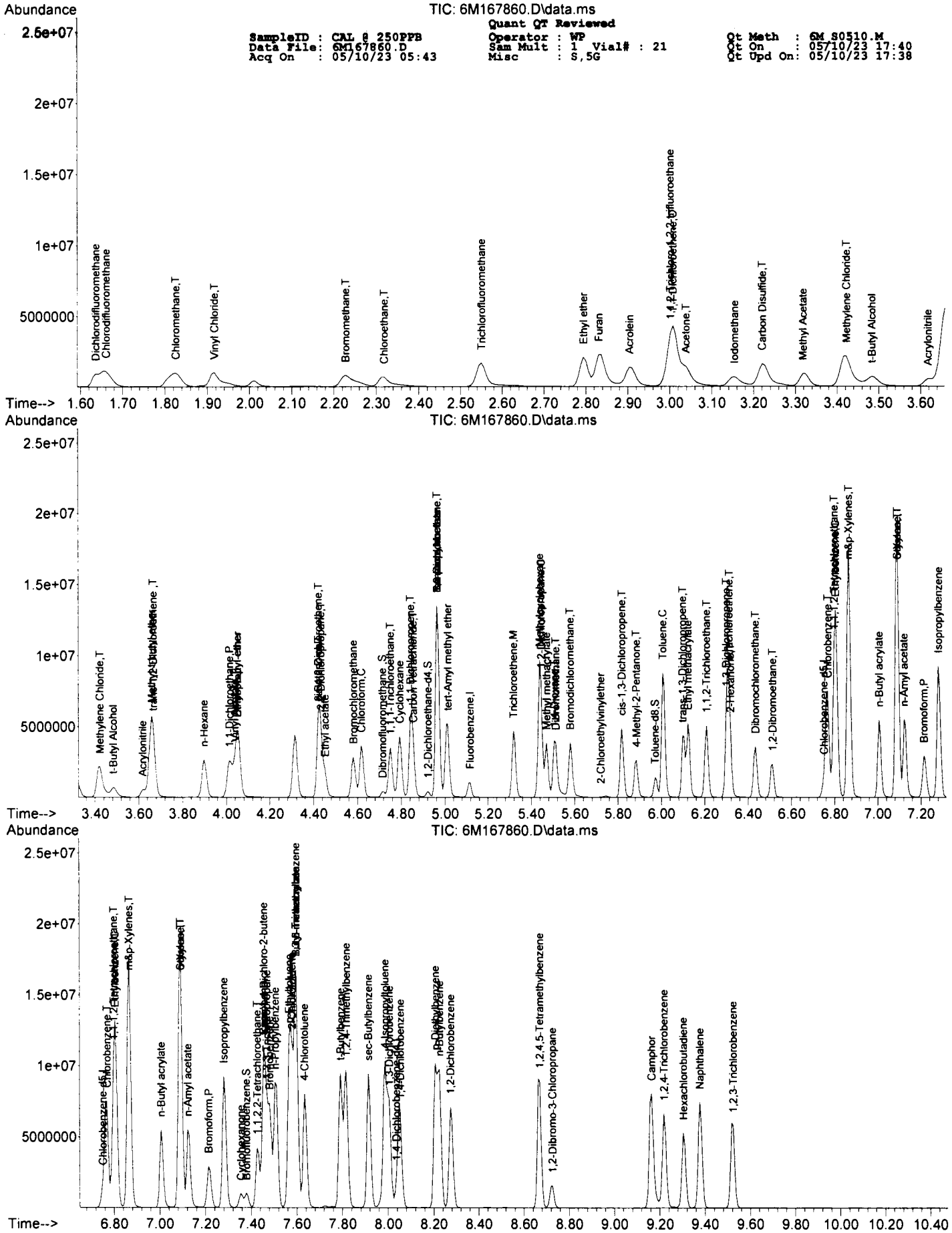
Quantitation Report (QT Reviewed)

SampleID : CAL @ 250PPB Operator : WP Qt Meth : 6M_S0510.M
Data File: 6M167860.D Sam Mult : 1 Vial# : 21 Qt On : 05/10/23 17:40
Acq On : 05/10/23 05:43 **Misc : S,5G** **Qt Upd On: 05/10/23 17:38**

Data Path : G:\GcMsData\2023\GCMS_6\Data\0510-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.799	133	1115901	438.4213	ug/l	98
69)	Chlorobenzene	6.769	112	3037964	407.6278	ug/l	99
71)	n-Butyl acrylate	7.007	55	2378752	717.4453	ug/l	98
72)	n-Amyl acetate	7.123	43	2072475	715.4282	ug/l	96
73)	Bromoform	7.214	173	985535	570.0477	ug/l	95
74)	Ethylbenzene	6.806	106	1295656	437.3287	ug/l	97
75)	1,1,2,2-Tetrachloroethane	7.427	83	1585643	578.1905	ug/l	99
77)	Styrene	7.092	104	3392131	517.5860	ug/l	99
78)	m&p-Xylenes	6.867	106	3746010	882.0840	ug/l	94
79)	o-Xylene	7.092	106	1981168	482.8984	ug/l	97
80)	trans-1,4-Dichloro-2-b...	7.458	53	571996	502.7306	ug/l	74
81)	1,3-Dichlorobenzene	8.007	146	2343317	458.5689	ug/l	99
82)	1,4-Dichlorobenzene	8.055	146	2289270	445.0638	ug/l	98
83)	1,2-Dichlorobenzene	8.275	146	2297104	479.2590	ug/l	97
84)	Isopropylbenzene	7.281	105	4448115	443.2762	ug/l	99
85)	Cyclohexanone	7.354	55	318480	2865.1095	ug/l	95
86)	Camphene	7.458	93	1587830	438.7077	ug/l	98
87)	1,2,3-Trichloropropane	7.470	75	1880087	554.2756	ug/l	95
88)	2-Chlorotoluene	7.580	91	3029595	479.3542	ug/l	99
89)	p-Ethyltoluene	7.568	105	4552678	425.2751	ug/l	95
90)	4-Chlorotoluene	7.635	91	2974035	506.1109	ug/l	97
91)	n-Propylbenzene	7.507	91	5265551	445.8470	ug/l	100
92)	Bromobenzene	7.482	77	3163327	514.0258	ug/l	95
93)	1,3,5-Trimethylbenzene	7.598	105	3798539	540.0335	ug/l	92
94)	Butyl methacrylate	7.598	41	1475109	674.8055	ug/l	96
95)	t-Butylbenzene	7.793	119	3899852	474.6217	ug/l	99
96)	1,2,4-Trimethylbenzene	7.818	105	4028482	522.5384	ug/l	98
97)	sec-Butylbenzene	7.915	105	4902178	463.1739	ug/l	100
98)	4-Isopropyltoluene	7.988	119	4181180	487.1144	ug/l	99
99)	n-Butylbenzene	8.226	91	4539198	475.7546	ug/l	99
100)	p-Diethylbenzene	8.208	119	2495383	478.8348	ug/l	95
101)	1,2,4,5-Tetramethylben...	8.671	119	3788571	638.7599	ug/l	98
102)	1,2-Dibromo-3-Chloropr...	8.726	157	387061	502.4140	ug/l	97
103)	Camphor	9.165	95	1783998	6122.6106	ug/l	99
104)	Hexachlorobutadiene	9.305	225	777017	408.8252	ug/l	98
105)	1,2,4-Trichlorobenzene	9.220	180	1563182	521.1039	ug/l	98
106)	1,2,3-Trichlorobenzene	9.525	180	1524143	535.0721	ug/l	98
107)	Naphthalene	9.378	128	4429042	638.2376	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M167860.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 250PPB
Data File: 6M167860.D
Acq On : 05/10/23 05:43
Operator : WP
Sam Mult : 1 Vial# : 21
Misc : S,5G
Qt Meth : 6M_S0510.M
Qt On : 05/10/23 17:40
Qt Upd On: 05/10/23 17:38
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 500 PPB Operator : WP Qt Meth : 6M_S0510.M
Data File: 6M167862.D Sam Mult : 1 Vial# : 23 Qt On : 05/10/23 17:39
Acq On : 05/10/23 06:27 Misc : S,5G Qt Upd On: 05/10/23 17:38

Data Path : G:\GcMsData\2023\GCMS_6\Data\0510-23
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.117	96	632893	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.751	117	482149	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.037	152	258431	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.715	111	164736	28.41	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.70%			
39) 1,2-Dichloroethane-d4	4.922	67	85091	32.01	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.70%			
66) Toluene-d8	5.971	98	623014	34.36	ug/l	0.00
Spiked Amount 30.000			Recovery = 114.53%			
76) Bromofluorobenzene	7.385	174	190524	30.96	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.20%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.660	51	2218887	578.3607	ug/l	52
6) Dichlorodifluoromethane	1.636	85	1838811	561.1612	ug/l	98
7) Chloromethane	1.825	50	2607974	712.3964	ug/l	100
8) Bromomethane	2.221	94	1438745	600.5612	ug/l	97
9) Vinyl Chloride	1.917	62	2340335	608.4798	ug/l	99
10) Chloroethane	2.313	64	1464711	638.6025	ug/l	89
11) Trichlorofluoromethane	2.551	101	2771562	575.8222	ug/l	98
12) Ethyl ether	2.794	59	1951516	941.3120	ug/l	92
13) Furan	2.831	39	3156512	813.1401	ug/l	81
14) 1,1,2-Trichloro-1,2,2-...	3.002	101	1558993	574.5330	ug/l	99
15) Methylene Chloride	3.422	84	2313916	768.8683	ug/l	80
16) Acrolein	2.904	56	2108709	4873.5034	ug/l	95
17) Acrylonitrile	3.617	53	848585	772.6156	ug/l	89
18) Iodomethane	3.154	142	1930699	619.4096	ug/l	98
19) Acetone	3.038	43	3121381	3350.7994	ug/l	90
20) Carbon Disulfide	3.221	76	4927629	497.7479	ug/l	100
21) t-Butyl Alcohol	3.489	59	1229145	3880.9219	ug/l	91
22) n-Hexane	3.898	57	2184651	615.0759	ug/l	96
23) Di-isopropyl-ether	4.050	45	6132715	866.9313	ug/l	89
24) 1,1-Dichloroethene	3.008	61	2680030	688.7126	ug/l	98
25) Methyl Acetate	3.325	43	1960015	795.2004	ug/l	100
26) Methyl-t-butyl ether	3.660	73	5397566	919.3397	ug/l	94
27) 1,1-Dichloroethane	4.014	63	3736875	741.0069	ug/l	95
28) trans-1,2-Dichloroethene	3.660	96	2047463	647.0724	ug/l	93
29) Ethyl-t-butyl ether	4.050	59	771637	836.3780	ug/l #	1
30) cis-1,2-Dichloroethene	4.422	61	3760683	809.1871	ug/l	92
31) Bromochloromethane	4.581	49	1769752	870.4432	ug/l	82
32) 2,2-Dichloropropane	4.434	77	2651408	753.5505	ug/l	99
33) Ethyl acetate	4.453	43	2368173	898.8928	ug/l	100
34) 1,4-Dioxane	5.507	88	1678886	37519.5919	ug/l	89
35) 1,1-Dichloropropene	4.843	75	2722226	676.6310	ug/l	94
36) Chloroform	4.617	83	3844087	740.1722	ug/l	95
38) Cyclohexane	4.794	56	2702293	636.4016	ug/l	89
40) 1,2-Dichloroethane	4.965	62	2979816	936.1795	ug/l	97
41) 2-Butanone	4.422	43	1113636	901.0234	ug/l	92
42) 1,1,1-Trichloroethane	4.751	97	3000341	655.4166	ug/l	99
43) Carbon Tetrachloride	4.855	117	2603709	609.6529	ug/l	99
44) Vinyl Acetate	4.038	43	5735978	938.4414	ug/l	100
45) Bromodichloromethane	5.580	83	3257761	857.7463	ug/l	97
46) Methylcyclohexane	5.440	83	3139899	643.4561	ug/l	91
47) Dibromomethane	5.513	174	1651360	825.5426	ug/l	97
48) 1,2-Dichloropropane	5.446	63	2438184	852.1680	ug/l	96
49) Trichloroethene	5.318	130	2271176	642.9988	ug/l	98
50) Benzene	4.965	78	8318168	687.3480	ug/l	100
51) tert-Amyl methyl ether	5.014	73	5190644	931.0490	ug/l	94
53) Iso-propylacetate	4.965	43	4500651	1252.2205	ug/l	90
54) Methyl methacrylate	5.471	41	2069004	1197.3823	ug/l	80
55) Dibromochloromethane	6.434	129	2703168	998.1852	ug/l	98
56) 2-Chloroethylvinylether	5.721	63	30145	25.9269	ug/l	97
57) cis-1,3-Dichloropropene	5.818	75	3901806	1030.8867	ug/l	99
58) trans-1,3-Dichloropropene	6.105	75	3542135	1124.1352	ug/l	97
59) Ethyl methacrylate	6.123	41	2289959	1371.2389	ug/l	83
60) 1,1,2-Trichloroethane	6.208	97	2226472	987.6233	ug/l	97
61) 1,2-Dibromoethane	6.513	107	2339059	995.7569	ug/l	90
62) 1,3-Dichloropropane	6.300	76	3884094	1053.2421	ug/l	99
63) 4-Methyl-2-Pentanone	5.885	43	2394309	1192.1904	ug/l	99
64) 2-Hexanone	6.318	43	1747525	1173.6445	ug/l	90
65) Tetrachloroethene	6.312	164	1720168	695.9181	ug/l	94
67) Toluene	6.007	92	5443277	774.0121	ug/l	91

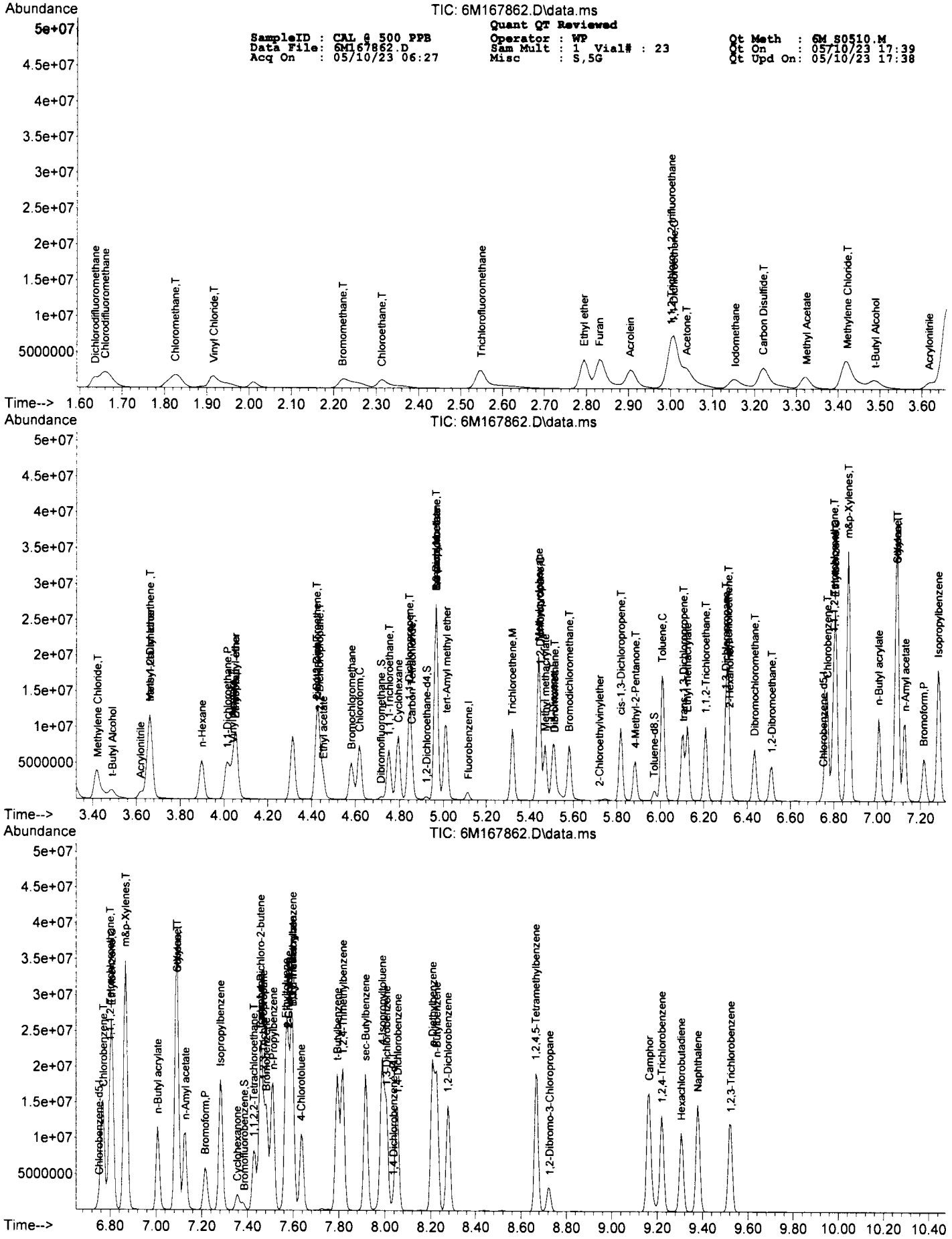
Quantitation Report (QT Reviewed)

SampleID : CAL @ 500 PPB Operator : WP Qt Meth : 6M_S0510.M
Data File: 6M167862.D Sam Mult : 1 Vial# : 23 Qt On : 05/10/23 17:39
Acq On : 05/10/23 06:27 Misc : S,5G Qt Upd On: 05/10/23 17:38

Data Path : G:\GcMsData\2023\GCMS_6\Data\0510-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.800	133	2284337	896.3715	ug/l	98
69)	Chlorobenzene	6.769	112	6156003	824.9771	ug/l	99
71)	n-Butyl acrylate	7.007	55	4868577	1458.8622	ug/l	99
72)	n-Amyl acetate	7.129	43	4066951	1394.8204	ug/l	97
73)	Bromoform	7.214	173	1972611	1133.5827	ug/l	95
74)	Ethylbenzene	6.806	106	2627130	880.9929	ug/l	94
75)	1,1,2,2-Tetrachloroethane	7.428	83	3212336	1163.7484	ug/l	98
77)	Styrene	7.092	104	6762479	1025.1525	ug/l	97
78)	m&p-Xylenes	6.867	106	7520591	1759.4041	ug/l	58
79)	o-Xylene	7.092	106	4026968	975.1811	ug/l	93
80)	trans-1,4-Dichloro-2-b...	7.458	53	1161481	1014.2081	ug/l	69
81)	1,3-Dichlorobenzene	8.007	146	4773995	928.1713	ug/l	99
82)	1,4-Dichlorobenzene	8.056	146	4685631	905.0361	ug/l	99
83)	1,2-Dichlorobenzene	8.275	146	4716786	977.7063	ug/l	97
84)	Isopropylbenzene	7.281	105	8883764	879.5651	ug/l	99
85)	Cyclohexanone	7.355	55	693933	6202.2491	ug/l	95
86)	Camphene	7.458	93	3309740	908.5268	ug/l	100
87)	1,2,3-Trichloropropane	7.470	75	3792383	1110.7917	ug/l	94
88)	2-Chlorotoluene	7.580	91	5791159	910.3535	ug/l	99
89)	p-Ethyltoluene	7.568	105	9970992	925.3670	ug/l	99
90)	4-Chlorotoluene	7.635	91	4014656	678.7667	ug/l	98
91)	n-Propylbenzene	7.513	91	10246968	862.0054	ug/l	97
92)	Bromobenzene	7.483	77	6418016	1036.1299	ug/l	98
93)	1,3,5-Trimethylbenzene	7.598	105	5363688	757.6005	ug/l	92
94)	Butyl methacrylate	7.598	41	1996488	907.3896	ug/l	90
95)	t-Butylbenzene	7.794	119	7986038	965.6138	ug/l	99
96)	1,2,4-Trimethylbenzene	7.818	105	8011087	1032.3829	ug/l	99
97)	sec-Butylbenzene	7.915	105	9777109	917.7790	ug/l	98
98)	4-Isopropyltoluene	7.989	119	8437189	976.5681	ug/l	99
99)	n-Butylbenzene	8.226	91	9177030	955.6055	ug/l	97
100)	p-Diethylbenzene	8.208	119	5212698	993.7649	ug/l	95
101)	1,2,4,5-Tetramethylben...	8.665	119	7839927	1313.2482	ug/l	96
102)	1,2-Dibromo-3-Chloropr...	8.726	157	789542	1018.1931	ug/l	97
103)	Camphor	9.165	95	3726136	12704.9684	ug/l	99
104)	Hexachlorobutadiene	9.305	225	1638143	856.3110	ug/l	99
105)	1,2,4-Trichlorobenzene	9.220	180	3207472	1062.3076	ug/l	98
106)	1,2,3-Trichlorobenzene	9.525	180	3159309	1101.9232	ug/l	98
107)	Naphthalene	9.379	128	8833565	1264.6815	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M167862.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 500 PPB
Data File: 6M167862.D
Acq On : 05/10/23 06:27
Operator : WP
Sam Mult : 1 Vial# : 23
Misc : S,5G
Qt Meth : 6M_S0510.M
Qt On : 05/10/23 17:39
Qt Upd On: 05/10/23 17:38
Dichlorodifluoromethane
Chlorodifluoromethane
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
Time-->

Abundance
TIC: 6M167862.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Bromochloromethane
Chloroform,C
Dibromofluoromethane,S
1,1,1-Trichloroethane,T
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Time-->

Abundance
TIC: 6M167862.D\data.ms
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone,S
4-Chlorotoluene
t-Butylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene
n-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 1 PPB Operator : WP Qt Meth : 6M_S0510.M
Data File: 6M167854.D Sam Mult : 1 Vial# : 15 Qt On : 05/10/23 17:51
Acq On : 05/10/23 03:32 Misc : S,5G Qt Upd On: 05/10/23 17:38

Data Path : G:\GcMsData\2023\GCMS_6\Data\0510-23
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.117	96	592848	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.751	117	424807	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.037	152	228598	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.715	111	164731	30.32	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.07%			
39) 1,2-Dichloroethane-d4	4.922	67	87190	35.01	ug/l	0.00
Spiked Amount 30.000			Recovery = 116.70%			
66) Toluene-d8	5.970	98	543389	34.01	ug/l	0.00
Spiked Amount 30.000			Recovery = 113.37%			
76) Bromofluorobenzene	7.379	174	166363	30.56	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.87%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	0.000		0	N.D.	d	
6) Dichlorodifluoromethane	0.000		0	N.D.	d	
7) Chloromethane	0.000		0	N.D.	d	
8) Bromomethane	0.000		0	N.D.	d	
9) Vinyl Chloride	0.000		0	N.D.	d	
10) Chloroethane	0.000		0	N.D.	d	
11) Trichlorofluoromethane	0.000		0	N.D.	d	
12) Ethyl ether	0.000		0	N.D.	d	
13) Furan	0.000		0	N.D.	d	
14) 1,1,2-Trichloro-1,2,2-...	0.000		0	N.D.	d	
15) Methylene Chloride	0.000		0	N.D.	d	
16) Acrolein	0.000		0	N.D.	d	
17) Acrylonitrile	0.000		0	N.D.	d	
18) Iodomethane	0.000		0	N.D.	d	
19) Acetone	0.000		0	N.D.	d	
20) Carbon Disulfide	0.000		0	N.D.	d	
21) t-Butyl Alcohol	0.000		0	N.D.	d	
22) n-Hexane	0.000		0	N.D.	d	
23) Di-isopropyl-ether	0.000		0	N.D.	d	
24) 1,1-Dichloroethene	0.000		0	N.D.	d	
25) Methyl Acetate	0.000		0	N.D.	d	
26) Methyl-t-butyl ether	3.660	73	8181	1.4875	ug/l	81
27) 1,1-Dichloroethane	0.000		0	N.D.	d	
28) trans-1,2-Dichloroethene	0.000		0	N.D.	d	
29) Ethyl-t-butyl ether	0.000		0	N.D.	d	
30) cis-1,2-Dichloroethene	0.000		0	N.D.	d	
31) Bromochloromethane	0.000		0	N.D.	d	
32) 2,2-Dichloropropane	0.000		0	N.D.	d	
33) Ethyl acetate	0.000		0	N.D.	d	
34) 1,4-Dioxane	0.000		0	N.D.	d	
35) 1,1-Dichloropropene	0.000		0	N.D.	d	
36) Chloroform	0.000		0	N.D.	d	
38) Cyclohexane	0.000		0	N.D.	d	
40) 1,2-Dichloroethane	0.000		0	N.D.	d	
41) 2-Butanone	0.000		0	N.D.	d	
42) 1,1,1-Trichloroethane	0.000		0	N.D.	d	
43) Carbon Tetrachloride	0.000		0	N.D.	d	
44) Vinyl Acetate	0.000		0	N.D.	d	
45) Bromodichloromethane	0.000		0	N.D.	d	
46) Methylcyclohexane	0.000		0	N.D.	d	
47) Dibromomethane	0.000		0	N.D.	d	
48) 1,2-Dichloropropane	0.000		0	N.D.	d	
49) Trichloroethene	0.000		0	N.D.	d	
50) Benzene	4.971	78	16670	1.4705	ug/l	100
51) tert-Amyl methyl ether	0.000		0	N.D.	d	
53) Iso-propylacetate	0.000		0	N.D.	d	
54) Methyl methacrylate	0.000		0	N.D.	d	
55) Dibromochloromethane	0.000		0	N.D.	d	
56) 2-Chloroethylvinylether	0.000		0	N.D.		
57) cis-1,3-Dichloropropene	0.000		0	N.D.	d	
58) trans-1,3-Dichloropropene	0.000		0	N.D.	d	
59) Ethyl methacrylate	0.000		0	N.D.	d	
60) 1,1,2-Trichloroethane	0.000		0	N.D.	d	
61) 1,2-Dibromoethane	6.513	107	4182	2.0206	ug/l	92
62) 1,3-Dichloropropane	0.000		0	N.D.	d	
63) 4-Methyl-2-Pentanone	0.000		0	N.D.	d	
64) 2-Hexanone	0.000		0	N.D.	d	
65) Tetrachloroethene	0.000		0	N.D.	d	
67) Toluene	6.013	92	10742m	1.7337	ug/l	

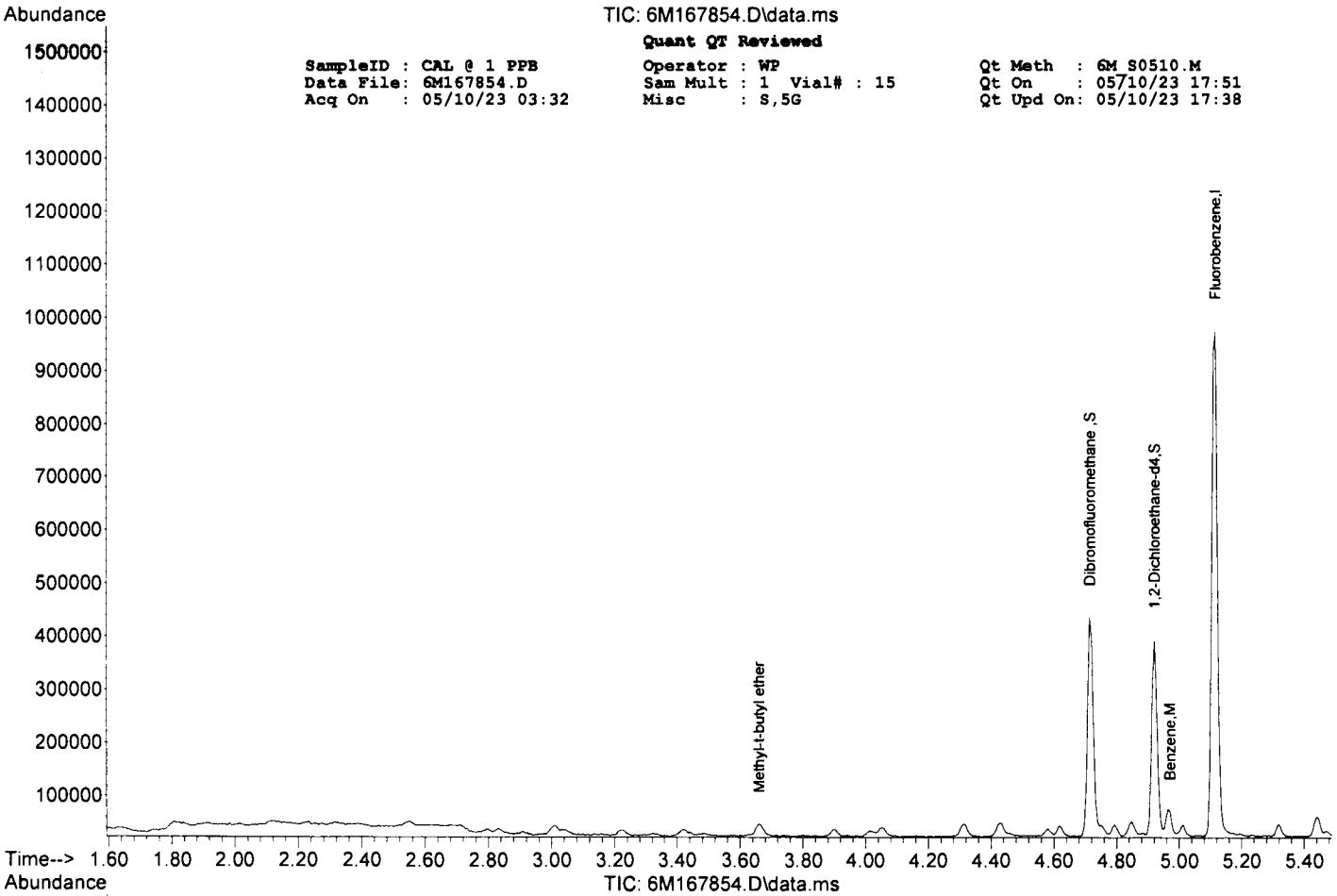
Quantitation Report (QT Reviewed)

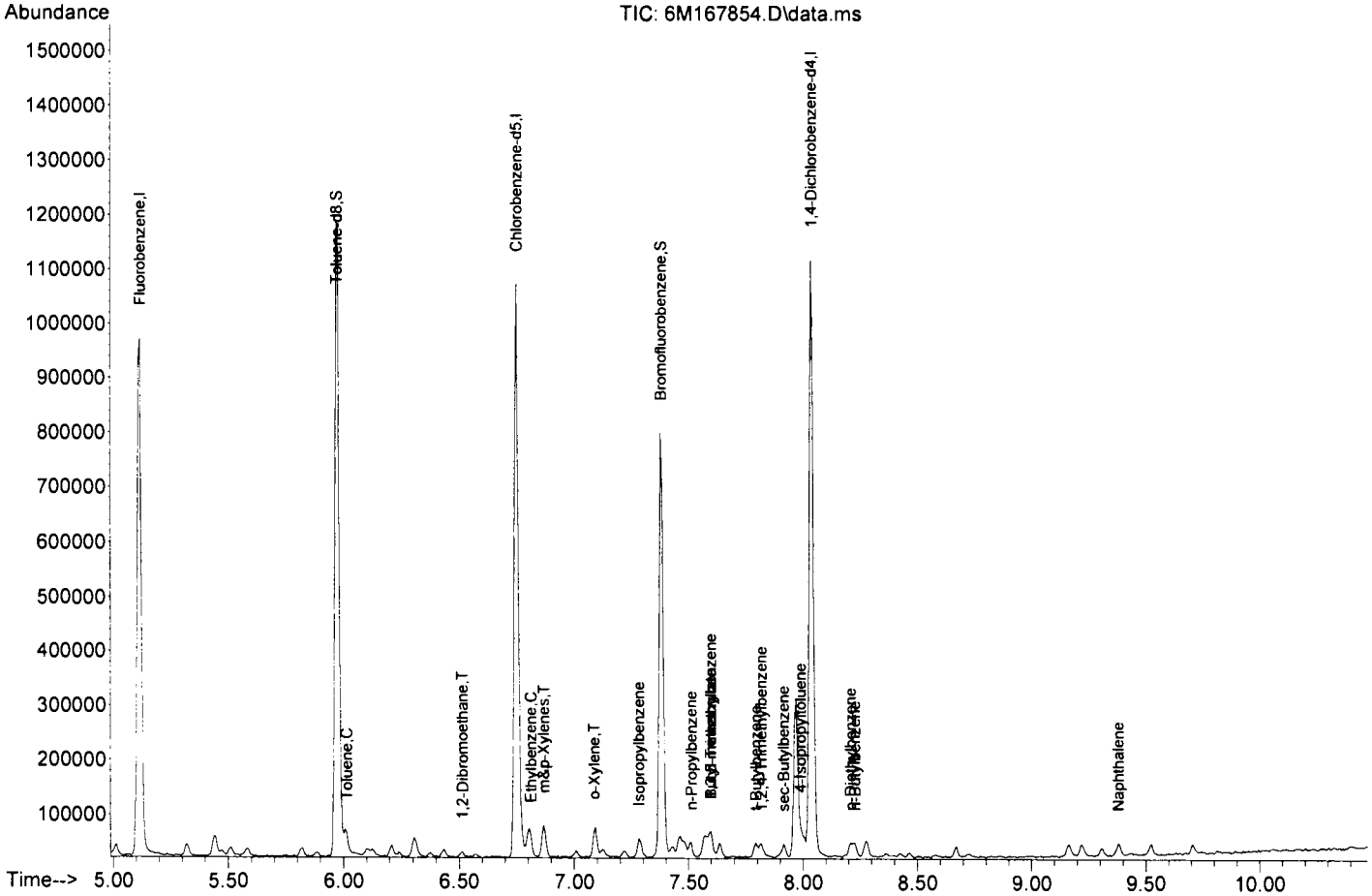
SampleID : CAL @ 1 PPB Operator : WP Qt Meth : 6M_S0510.M
Data File: 6M167854.D Sam Mult : 1 Vial# : 15 Qt On : 05/10/23 17:51
Acq On : 05/10/23 03:32 Misc : S,5G Qt Upd On: 05/10/23 17:38

Data Path : G:\GcMsData\2023\GCMS_6\Data\0510-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	0.000		0	N.D. d		
69)	Chlorobenzene	0.000		0	N.D. d		
71)	n-Butyl acrylate	0.000		0	N.D. d		
72)	n-Amyl acetate	0.000		0	N.D. d		
73)	Bromoform	0.000		0	N.D. d		
74)	Ethylbenzene	6.812	106	4271	1.6192	ug/l	91
75)	1,1,2,2-Tetrachloroethane	0.000		0	N.D. d		
77)	Styrene	0.000		0	N.D. d		
78)	m&p-Xylenes	6.867	106	11220	2.9674	ug/l	82
79)	o-Xylene	7.086	106	6290	1.7220	ug/l	85
80)	trans-1,4-Dichloro-2-b...	0.000		0	N.D. d		
81)	1,3-Dichlorobenzene	0.000		0	N.D. d		
82)	1,4-Dichlorobenzene	0.000		0	N.D. d		
83)	1,2-Dichlorobenzene	0.000		0	N.D. d		
84)	Isopropylbenzene	7.281	105	12903	1.4442	ug/l	93
85)	Cyclohexanone	0.000		0	N.D. d		
86)	Camphene	0.000		0	N.D. d		
87)	1,2,3-Trichloropropane	0.000		0	N.D. d		
88)	2-Chlorotoluene	0.000		0	N.D. d		
89)	p-Ethyltoluene	0.000		0	N.D. d		
90)	4-Chlorotoluene	0.000		0	N.D. d		
91)	n-Propylbenzene	7.513	91	14335	1.3633	ug/l	98
92)	Bromobenzene	0.000		0	N.D. d		
93)	1,3,5-Trimethylbenzene	7.598	105	11855	1.8930	ug/l	84
94)	Butyl methacrylate	7.598	41	4952	2.5444	ug/l	70
95)	t-Butylbenzene	7.793	119	10062	1.3754	ug/l	86
96)	1,2,4-Trimethylbenzene	7.818	105	10112	1.4732	ug/l	94
97)	sec-Butylbenzene	7.915	105	11022	1.1697	ug/l	91
98)	4-Isopropyltoluene	7.988	119	22365m	2.9265	ug/l	
99)	n-Butylbenzene	8.226	91	10674	1.2565	ug/l	94
100)	p-Diethylbenzene	8.208	119	5572	1.2009	ug/l	87
101)	1,2,4,5-Tetramethylben...	0.000		0	N.D. d		
102)	1,2-Dibromo-3-Chloropr...	0.000		0	N.D. d		
103)	Camphor	0.000		0	N.D. d		
104)	Hexachlorobutadiene	0.000		0	N.D. d		
105)	1,2,4-Trichlorobenzene	0.000		0	N.D. d		
106)	1,2,3-Trichlorobenzene	0.000		0	N.D. d		
107)	Naphthalene	9.378	128	13334	2.1581	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M167854.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 1 PPB
Data File: 6M167854.D
Acq On : 05/10/23 03:32
Operator : WP
Sam Mult : 1 Vial# : 15
Misc : S,5G
Qt Meth : 6M_S0510.M
Qt On : 05/10/23 17:51
Qt Upd On: 05/10/23 17:38
Methyl-t-butyl ether
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Benzene,M
Fluorobenzene,I
Time-->


Abundance
TIC: 6M167854.D\data.ms
Fluorobenzene,I
Toluene-d8,S
Toluene,C
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Ethylbenzene,C
m&p-Xylenes,T
o-Xylene,T
Isopropylbenzene
Bromofluorobenzene,S
n-Propylbenzene
sec-Butylbenzene
4-Isopropyltoluene
1,4-Dichlorobenzene-d4,I
Naphthalene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 0.5 PPB Operator : WP Qt Meth : 6M_S0510.M
Data File: 6M167853.D Sam Mult : 1 Vial# : 14 Qt On : 05/10/23 17:53
Acq On : 05/10/23 03:10 Misc : S,5G Qt Upd On: 05/10/23 17:38

Data Path : G:\GcMsData\2023\GCMS_6\Data\0510-23
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.117	96	582844	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.751	117	419684	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.037	152	227879	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.714	111	163387	30.59	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.97%			
39) 1,2-Dichloroethane-d4	4.922	67	87679	35.81	ug/l	0.00
Spiked Amount 30.000			Recovery = 119.37%			
66) Toluene-d8	5.976	98	536770	34.01	ug/l	0.00
Spiked Amount 30.000			Recovery = 113.37%			
76) Bromofluorobenzene	7.385	174	161341	29.73	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.10%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	0.000		0	N.D.	d	
6) Dichlorodifluoromethane	0.000		0	N.D.	d	
7) Chloromethane	0.000		0	N.D.	d	
8) Bromomethane	0.000		0	N.D.	d	
9) Vinyl Chloride	0.000		0	N.D.	d	
10) Chloroethane	0.000		0	N.D.	d	
11) Trichlorofluoromethane	0.000		0	N.D.	d	
12) Ethyl ether	0.000		0	N.D.	d	
13) Furan	0.000		0	N.D.	d	
14) 1,1,2-Trichloro-1,2,2-...	0.000		0	N.D.	d	
15) Methylene Chloride	0.000		0	N.D.	d	
16) Acrolein	0.000		0	N.D.	d	
17) Acrylonitrile	0.000		0	N.D.	d	
18) Iodomethane	0.000		0	N.D.	d	
19) Acetone	0.000		0	N.D.	d	
20) Carbon Disulfide	0.000		0	N.D.	d	
21) t-Butyl Alcohol	0.000		0	N.D.	d	
22) n-Hexane	0.000		0	N.D.	d	
23) Di-isopropyl-ether	0.000		0	N.D.	d	
24) 1,1-Dichloroethene	0.000		0	N.D.	d	
25) Methyl Acetate	0.000		0	N.D.	d	
26) Methyl-t-butyl ether	0.000		0	N.D.	d	
27) 1,1-Dichloroethane	0.000		0	N.D.	d	
28) trans-1,2-Dichloroethene	0.000		0	N.D.	d	
29) Ethyl-t-butyl ether	0.000		0	N.D.	d	
30) cis-1,2-Dichloroethene	0.000		0	N.D.	d	
31) Bromochloromethane	0.000		0	N.D.	d	
32) 2,2-Dichloropropane	0.000		0	N.D.	d	
33) Ethyl acetate	0.000		0	N.D.	d	
34) 1,4-Dioxane	0.000		0	N.D.	d	
35) 1,1-Dichloropropene	0.000		0	N.D.	d	
36) Chloroform	0.000		0	N.D.	d	
38) Cyclohexane	0.000		0	N.D.	d	
40) 1,2-Dichloroethane	0.000		0	N.D.	d	
41) 2-Butanone	0.000		0	N.D.	d	
42) 1,1,1-Trichloroethane	0.000		0	N.D.	d	
43) Carbon Tetrachloride	0.000		0	N.D.	d	
44) Vinyl Acetate	0.000		0	N.D.	d	
45) Bromodichloromethane	0.000		0	N.D.	d	
46) Methylcyclohexane	0.000		0	N.D.	d	
47) Dibromomethane	0.000		0	N.D.	d	
48) 1,2-Dichloropropane	0.000		0	N.D.	d	
49) Trichloroethene	0.000		0	N.D.	d	
50) Benzene	0.000		0	N.D.	d	
51) tert-Amyl methyl ether	0.000		0	N.D.	d	
53) Iso-propylacetate	0.000		0	N.D.	d	
54) Methyl methacrylate	0.000		0	N.D.	d	
55) Dibromochloromethane	0.000		0	N.D.	d	
56) 2-Chloroethylvinylether	0.000		0	N.D.		
57) cis-1,3-Dichloropropene	0.000		0	N.D.	d	
58) trans-1,3-Dichloropropene	0.000		0	N.D.	d	
59) Ethyl methacrylate	0.000		0	N.D.	d	
60) 1,1,2-Trichloroethane	0.000		0	N.D.	d	
61) 1,2-Dibromoethane	6.513	107	2480	1.2129	ug/l	87
62) 1,3-Dichloropropane	0.000		0	N.D.	d	
63) 4-Methyl-2-Pentanone	0.000		0	N.D.	d	
64) 2-Hexanone	0.000		0	N.D.	d	
65) Tetrachloroethene	0.000		0	N.D.	d	
67) Toluene	0.000		0	N.D.	d	

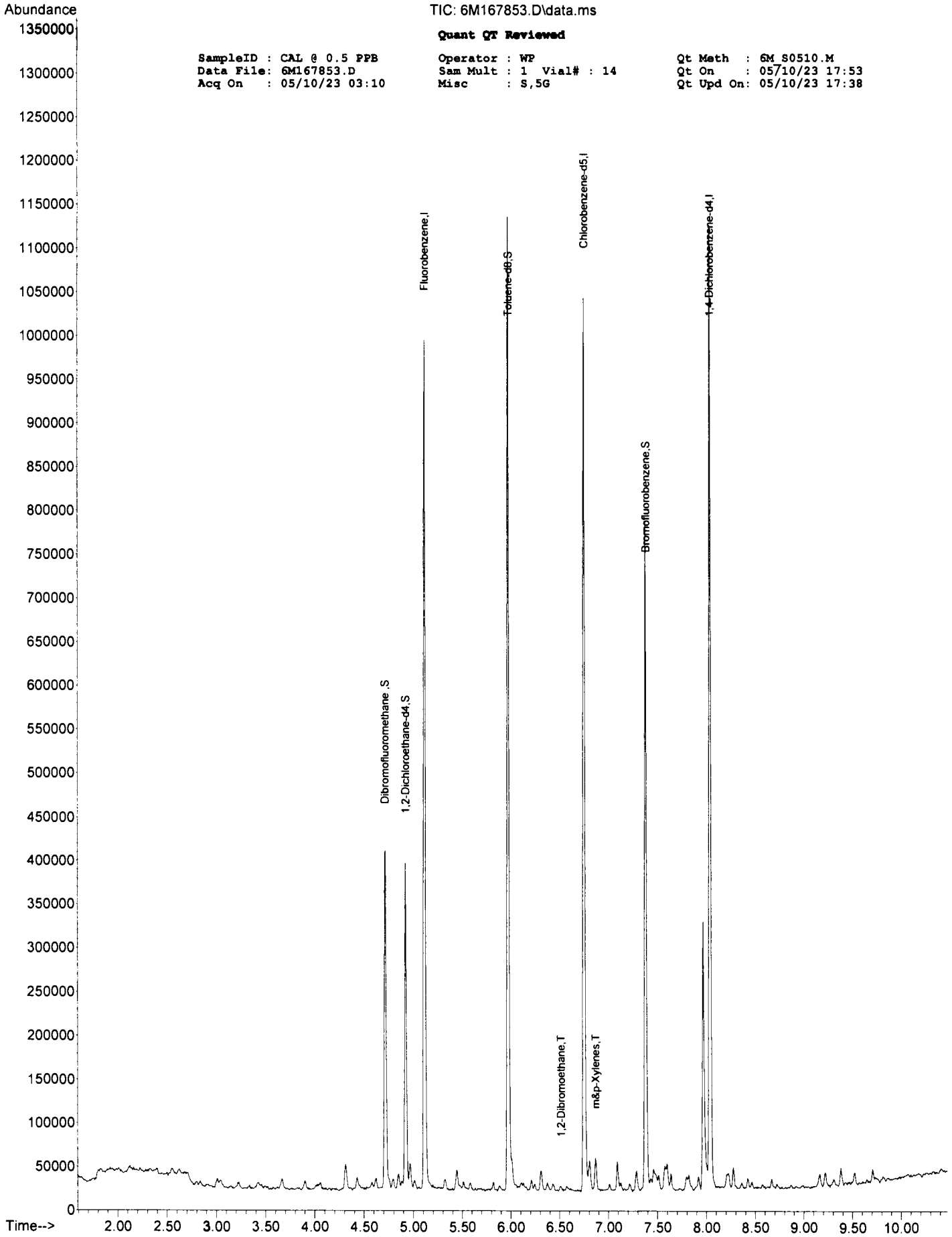
Quantitation Report (QT Reviewed)

SampleID : CAL @ 0.5 PPB Operator : WP Qt Meth : 6M_S0510.M
Data File: 6M167853.D Sam Mult : 1 Vial# : 14 Qt On : 05/10/23 17:53
Acq On : 05/10/23 03:10 **Misc : S,5G** **Qt Upd On: 05/10/23 17:38**

Data Path : G:\GcMsData\2023\GCMS_6\Data\0510-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	0.000		0	N.D. d		
69)	Chlorobenzene	0.000		0	N.D. d		
71)	n-Butyl acrylate	0.000		0	N.D. d		
72)	n-Amyl acetate	0.000		0	N.D. d		
73)	Bromoform	0.000		0	N.D. d		
74)	Ethylbenzene	0.000		0	N.D. d		
75)	1,1,2,2-Tetrachloroethane	0.000		0	N.D. d		
77)	Styrene	0.000		0	N.D. d		
78)	m&p-Xylenes	6.867	106	7711	2.0458	ug/1	93
79)	o-Xylene	0.000		0	N.D. d		
80)	trans-1,4-Dichloro-2-b...	0.000		0	N.D. d		
81)	1,3-Dichlorobenzene	0.000		0	N.D. d		
82)	1,4-Dichlorobenzene	0.000		0	N.D. d		
83)	1,2-Dichlorobenzene	0.000		0	N.D. d		
84)	Isopropylbenzene	0.000		0	N.D. d		
85)	Cyclohexanone	0.000		0	N.D. d		
86)	Camphene	0.000		0	N.D. d		
87)	1,2,3-Trichloropropane	0.000		0	N.D. d		
88)	2-Chlorotoluene	0.000		0	N.D. d		
89)	p-Ethyltoluene	0.000		0	N.D. d		
90)	4-Chlorotoluene	0.000		0	N.D. d		
91)	n-Propylbenzene	0.000		0	N.D. d		
92)	Bromobenzene	0.000		0	N.D. d		
93)	1,3,5-Trimethylbenzene	0.000		0	N.D. d		
94)	Butyl methacrylate	0.000		0	N.D. d		
95)	t-Butylbenzene	0.000		0	N.D. d		
96)	1,2,4-Trimethylbenzene	0.000		0	N.D. d		
97)	sec-Butylbenzene	0.000		0	N.D. d		
98)	4-Isopropyltoluene	0.000		0	N.D. d		
99)	n-Butylbenzene	0.000		0	N.D. d		
100)	p-Diethylbenzene	0.000		0	N.D. d		
101)	1,2,4,5-Tetramethylben...	0.000		0	N.D. d		
102)	1,2-Dibromo-3-Chloropr...	0.000		0	N.D. d		
103)	Camphor	0.000		0	N.D. d		
104)	Hexachlorobutadiene	0.000		0	N.D. d		
105)	1,2,4-Trichlorobenzene	0.000		0	N.D. d		
106)	1,2,3-Trichlorobenzene	0.000		0	N.D. d		
107)	Naphthalene	0.000		0	N.D. d		

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M167853.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 0.5 PPB
Data File: 6M167853.D
Acq On : 05/10/23 03:10
Operator : WP
Sam Mult : 1 Vial# : 14
Misc : S,5G
Qt Meth : 6M_S0510.M
Qt On : 05/10/23 17:53
Qt Upd On: 05/10/23 17:38
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

3061429 0155

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_2

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	2M185180.D	CAL @ 20 PPB	05/26/23 22:39	2	2M185178.D	CAL @ 5 PPB	05/26/23 21:59
3	2M185179.D	CAL @10 PPB	05/26/23 22:19	4	2M185181.D	CAL @ 50 PPB	05/26/23 22:59
5	2M185182.D	CAL @100 PPB	05/26/23 23:19	6	2M185183.D	CAL @250 PPB	05/26/23 23:39
7	2M185184.D	CAL @500 PPB	05/26/23 23:59	8	2M185177.D	CAL @1 PPB	05/26/23 21:39
9	2M185176.D	CAL @ 0.5 PPB	05/26/23 21:19				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.2592	0.2204	0.2189	0.2984	0.3088	0.3426	0.3396	0.2489	-----	0.280	1.70	1.00	1.00	18	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dichlorodifluorometha	1	0	Avg	0.2419	0.2642	0.2729	0.2742	0.2854	0.3001	0.2976	0.2494	-----	0.273	1.68	1.00	1.00	7.7	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloromethane	1	0	Avg	0.2335	0.2391	0.2286	0.2348	0.2271	0.2416	0.2524	0.2485	-----	0.238	1.86	0.999	1.00	3.8	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromomethane	1	0	Avg	0.1401	0.1567	0.1418	0.1347	0.1359	0.1575	0.1623	0.1881	-----	0.152	2.26	0.999	1.00	12	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Vinyl Chloride	1	0	Avg	0.2564	0.2612	0.2588	0.2689	0.2673	0.2831	0.2796	0.2360	-----	0.264	1.96	1.00	1.00	5.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroethane	1	0	Avg	0.1634	0.1579	0.1631	0.1626	0.1599	0.1572	0.1515	0.1714	-----	0.161	2.34	1.00	1.00	3.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichlorofluoromethan	1	0	Avg	0.3522	0.3799	0.3732	0.3524	0.3720	0.3664	0.3654	0.3418	-----	0.363	2.56	1.00	1.00	3.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl ether	1	0	Avg	0.2134	0.2072	0.2043	0.2137	0.2144	0.2249	0.2191	0.1934	-----	0.211	2.80	1.00	1.00	4.6	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Furan	1	0	Avg	0.3452	0.3371	0.3265	0.3383	0.3349	0.3394	0.3163	0.3102	-----	0.331	2.84	0.999	1.00	3.7	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.1644	0.1797	0.1860	0.1846	0.1924	0.1947	0.1861	0.1656	-----	0.182	3.00	0.999	1.00	6.2	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methylene Chloride	1	0	Avg	0.2337	0.2280	0.2223	0.2333	0.2328	0.2410	0.2342	0.2253	-----	0.231	3.42	1.00	1.00	2.5	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acrolein	1	0	Avg	0.0399	0.0348	0.0398	0.0413	0.0444	0.0472	0.0461	0.0297	-----	0.0404	2.92	1.00	1.00	15		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Acrylonitrile	1	0	Avg	0.0971	0.0926	0.0931	0.0976	0.0993	0.1038	0.1002	0.0994	-----	0.0979	3.62	1.00	1.00	3.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iodomethane	1	0	Avg	0.2865	0.2094	0.2013	0.3268	0.3306	0.3397	0.2987	0.2968	-----	0.286	3.15	0.995	0.996	19		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acetone	1	0	Avg	0.0751	0.0737	0.0740	0.0714	0.0731	0.0734	0.0690	0.0813	-----	0.0739	3.04	0.999	1.00	4.8	0.10 a	100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Carbon Disulfide	1	0	Avg	0.5810	0.5817	0.5774	0.6040	0.6075	0.6238	0.6100	0.5888	-----	0.597	3.22	1.00	1.00	2.8	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butyl Alcohol	1	0	Avg	0.0287	0.0278	0.0271	0.0272	0.0296	0.0306	0.0300	0.0321	-----	0.0292	3.48	1.00	1.00	6.1		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
n-Hexane	1	0	Avg	0.1705	0.1870	0.1921	0.1989	0.2049	0.2109	0.2024	0.1892	-----	0.195	3.87	1.00	1.00	6.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Di-isopropyl-ether	1	0	Avg	0.6325	0.6045	0.6005	0.6329	0.6266	0.6238	0.5721	0.5603	-----	0.607	4.03	0.998	1.00	4.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1-Dichloroethene	1	0	Avg	0.3116	0.3120	0.3137	0.3181	0.3182	0.3236	0.3054	0.2816	-----	0.311	3.01	0.999	1.00	4.2	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl Acetate	1	0	Avg	0.1733	0.1669	0.1679	0.1693	0.1977	0.2126	0.1824	0.1901	-----	0.183	3.32	0.994	0.999	9.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl-t-butyl ether	1	0	Avg	0.6389	0.6192	0.6105	0.6435	0.6421	0.6604	0.6329	0.5817	0.5626	0.621	3.64	1.00	1.00	5.1	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
1,1-Dichloroethane	1	0	Avg	0.3966	0.3865	0.3819	0.3956	0.3942	0.4043	0.3861	0.3693	0.3393	0.384	4.00	1.00	1.00	5.1	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
trans-1,2-Dichloroethe	1	0	Avg	0.2322	0.2295	0.2229	0.2378	0.2365	0.2432	0.2356	0.2212	0.2265	0.232	3.65	1.00	1.00	3.2	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
Ethyl-t-butyl ether	1	0	Avg	0.7023	0.6799	0.6629	0.7049	0.6994	0.7088	0.6692	0.6444	0.6171	0.677	4.29	0.999	1.00	4.6	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
cis-1,2-Dichloroethene	1	0	Avg	0.4048	0.3865	0.3855	0.4004	0.3972	0.4003	0.3792	0.3655	0.3436	0.385	4.41	0.999	1.00	5.2	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
Bromochloromethane	1	0	Avg	0.1945	0.1903	0.1842	0.1938	0.1875	0.1891	0.1703	0.1811	0.2271	0.191	4.57	0.997	1.00	8.1		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
2,2-Dichloropropane	1	0	Avg	0.3494	0.3440	0.3397	0.3516	0.3462	0.3458	0.3290	0.3238	0.3208	0.339	4.42	0.999	1.00	3.4		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
Ethyl acetate	1	0	Avg	0.2732	0.2759	0.2684	0.2754	0.2738	0.2729	0.2629	0.3120	0.3286	0.283	4.43	1.00	1.00	7.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
1,4-Dioxane	1	0	Avg	0.0023	0.0022	0.0022	0.0023	0.0025	0.0023	0.0024	0.0023	-----	0.00237	5.50	0.999	1.00	3.6		1000.	250.0	500.0	2500.	5000.	12500	25000	50.00	
1,1-Dichloropropene	1	0	Avg	0.2990	0.2920	0.2986	0.3067	0.3075	0.3143	0.3018	0.2711	0.2809	0.297	4.82	1.00	1.00	4.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
Chloroform	1	0	Avg	0.4162	0.4083	0.4045	0.4167	0.4097	0.4142	0.3972	0.3826	0.3791	0.403	4.61	1.00	1.00	3.5	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
Dibromofluoromethan	1	0	Avg	0.2793	0.2757	0.2768	0.2762	0.2743	0.2749	0.2741	0.2741	0.2747	0.276	4.70	-1	-1	0.62		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.2454	0.2722	0.2789	0.2806	0.2900	0.2964	0.2844	0.2586	0.2542	0.273	4.77	1.00	1.00	6.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
1,2-Dichloroethane-d4	1	0	Avg	0.1498	0.1487	0.1485	0.1443	0.1464	0.1459	0.1464	0.1482	0.1494	0.148	4.91	-1	-1	1.3		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.3446	0.3478	0.3312	0.3337	0.3255	0.3173	0.2982	0.3547	0.3499	0.334	4.95	0.999	1.00	5.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
2-Butanone	1	0	Avg	0.1119	0.0956	0.1072	0.1203	0.1289	0.1323	0.1232	0.1127	-----	0.117	4.42	0.999	1.00	10	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,1-Trichloroethane	1	0	Avg	0.3832	0.3792	0.3791	0.3855	0.3851	0.3907	0.3782	0.3474	-----	0.379	4.73	1.00	1.00	3.5	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Carbon Tetrachloride	1	0	Avg	0.3246	0.3198	0.3242	0.3384	0.3414	0.3477	0.3360	0.3032	-----	0.329	4.83	1.00	1.00	4.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Vinyl Acetate	1	0	Avg	0.7995	0.7378	0.7580	0.7900	0.7528	0.7409	0.7181	0.7224	-----	0.752	4.03	1.00	1.00	3.9		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromodichloromethan	1	0	Avg	0.3320	0.3204	0.3152	0.3318	0.3251	0.3364	0.3245	0.2837	-----	0.321	5.57	1.00	1.00	5.2	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 4.892

Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_2

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	2M185180.D	CAL @ 20 PPB	05/26/23 22:39	2	2M185178.D	CAL @ 5 PPB	05/26/23 21:59
3	2M185179.D	CAL @10 PPB	05/26/23 22:19	4	2M185181.D	CAL @ 50 PPB	05/26/23 22:59
5	2M185182.D	CAL @100 PPB	05/26/23 23:19	6	2M185183.D	CAL @250 PPB	05/26/23 23:39
7	2M185184.D	CAL @500 PPB	05/26/23 23:59	8	2M185177.D	CAL @1 PPB	05/26/23 21:39
9	2M185176.D	CAL @ 0.5 PPB	05/26/23 21:19				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.2266	0.2589	0.2572	0.2669	0.2691	0.2794	0.2712	0.2259	-----	0.257	5.42	1.00	1.00	7.8	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromomethane	1	0	Avg	0.2178	0.2119	0.2084	0.2211	0.2129	0.2197	0.2125	0.2033	-----	0.213	5.50	1.00	1.00	2.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichloropropane	1	0	Avg	0.2291	0.2215	0.2200	0.2358	0.2267	0.2356	0.2262	0.2095	-----	0.226	5.43	1.00	1.00	3.8	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichloroethene	1	0	Avg	0.2747	0.2754	0.2644	0.2773	0.2774	0.2867	0.2824	0.2549	-----	0.274	5.30	1.00	1.00	3.7	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Benzene	1	0	Avg	0.8842	0.8518	0.8463	0.8866	0.8847	0.8880	0.8431	0.8483	0.7962	0.859	4.95	0.999	1.00	3.5	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
tert-Amyl methyl ether	1	0	Avg	0.6586	0.6411	0.6234	0.6673	0.6628	0.6742	0.6428	0.6009	-----	0.646	4.99	0.999	1.00	3.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iso-propylacetate	1	0	Avg	0.6496	0.6157	0.6108	0.6305	0.6341	0.5999	0.5590	0.5999	-----	0.612	4.95	0.998	1.00	4.5	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl methacrylate	1	0	Avg	0.3022	0.2809	0.2830	0.2890	0.3108	0.3046	0.2740	0.2706	-----	0.289	5.45	0.997	1.00	5.1	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromochloromethan	1	0	Avg	0.3591	0.3400	0.3378	0.3621	0.3628	0.3687	0.3608	0.3051	-----	0.350	6.42	1.00	1.00	6.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chloroethylvinylethe	1	0	Avg	0.1532	0.1392	0.1441	0.1610	0.1593	0.1566	0.1505	0.1188	-----	0.148	5.71	1.00	1.00	9.4		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1,3-Dichloropropen	1	0	Avg	0.4830	0.4519	0.4458	0.4903	0.4882	0.4876	0.4739	0.4154	-----	0.467	5.81	1.00	1.00	5.8	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,3-Dichloroprop	1	0	Avg	0.4567	0.4297	0.4230	0.4618	0.4625	0.4661	0.4514	0.3811	-----	0.442	6.09	1.00	1.00	6.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl methacrylate	1	0	Avg	0.3068	0.2861	0.2905	0.2963	0.2914	0.2790	0.2702	0.2704	-----	0.286	6.11	1.00	1.00	4.4	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2-Trichloroethane	1	0	Avg	0.2917	0.2740	0.2769	0.2865	0.2844	0.2843	0.2770	0.2995	-----	0.284	6.20	1.00	1.00	3.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromoethane	1	0	Avg	0.3212	0.3117	0.3045	0.3164	0.3172	0.3206	0.3114	0.2797	-----	0.310	6.49	1.00	1.00	4.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichloropropane	1	0	Avg	0.4820	0.4654	0.4463	0.4734	0.4669	0.4614	0.4439	0.4239	-----	0.458	6.29	1.00	1.00	4.1		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Methyl-2-Pentanone	1	0	Avg	0.3112	0.2986	0.3005	0.2992	0.3076	0.3058	0.2914	0.2963	-----	0.301	5.87	0.999	1.00	2.1	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Hexanone	1	0	Avg	0.2340	0.2129	0.2195	0.2200	0.2270	0.2211	0.2072	0.2201	-----	0.220	6.31	0.999	1.00	3.7	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Tetrachloroethene	1	0	Avg	0.2692	0.2823	0.2740	0.2782	0.2802	0.2744	0.2655	0.2607	-----	0.273	6.29	1.00	1.00	2.7	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Toluene-d8	1	0	Avg	1.2379	1.2243	1.2230	1.2303	1.2214	1.2083	1.2110	1.2347	1.2159	1.22	5.95	-1	-1	0.83		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.7432	0.7136	0.7060	0.7398	0.7315	0.7235	0.6987	0.6975	-----	0.719	5.99	1.00	1.00	2.5	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.3102	0.3055	0.2937	0.3114	0.3092	0.3107	0.2976	0.2739	-----	0.302	6.78	1.00	1.00	4.3		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chlorobenzene	1	0	Avg	0.8541	0.8304	0.8106	0.8429	0.8398	0.8453	0.8126	0.7950	-----	0.829	6.75	1.00	1.00	2.5	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butyl acrylate	1	0	Avg	1.1877	1.1132	1.0973	1.2013	1.1188	1.1096	1.1137	1.0658	-----	1.13	6.99	1.00	1.00	4.1	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Amyl acetate	1	0	Avg	1.0460	0.9768	0.9855	0.9986	0.8776	0.8983	0.8824	0.9385	-----	0.951	7.11	1.00	1.00	6.4	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromoform	1	0	Avg	0.5219	0.4827	0.4781	0.5277	0.5343	0.5653	0.5394	0.5000	-----	0.519	7.20	0.999	1.00	5.8	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethylbenzene	1	0	Avg	0.6725	0.6488	0.6595	0.6860	0.6759	0.7003	0.6705	0.6254	-----	0.667	6.79	1.00	1.00	3.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.7435	0.7224	0.7130	0.7263	0.7289	0.7317	0.6978	0.7102	-----	0.722	7.42	0.999	1.00	2.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromofluorobenzene	1	0	Avg	0.8766	0.8759	0.8779	0.8748	0.8726	0.8795	0.8547	0.8750	0.8822	0.874	7.37	-1	-1	0.90		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	1.7431	1.6354	1.6247	1.7514	1.7208	1.7196	1.5538	1.5191	-----	1.66	7.07	0.997	1.00	5.4	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
m&p-Xylenes	1	0	Avg	1.0193	0.9811	0.9761	1.0224	1.0031	1.0080	0.9055	0.9372	0.9557	0.979	6.85	0.997	1.00	4.1	0.10	40.00	10.00	20.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	1.0152	0.9795	0.9465	1.0077	0.9949	0.9955	0.9089	0.9283	-----	0.972	7.07	0.998	1.00	4.0	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.2587	0.2422	0.2534	0.2597	0.2665	0.2658	0.2481	0.2357	-----	0.254	7.45	0.999	1.00	4.4		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichlorobenzene	1	0	Avg	1.1732	1.1372	1.1219	1.1640	1.1707	1.1766	1.1259	1.1666	-----	1.15	7.99	1.00	1.00	1.9	0.60	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,4-Dichlorobenzene	1	0	Avg	1.2017	1.1754	1.1299	1.1922	1.1895	1.1950	1.1588	1.1993	-----	1.18	8.04	1.00	1.00	2.1	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichlorobenzene	1	0	Avg	1.0873	1.0567	1.0258	1.0894	1.0974	1.0984	1.0829	1.0711	-----	1.08	8.26	1.00	1.00	2.3	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Isopropylbenzene	1	0	Avg	2.2051	2.1390	2.1040	2.2013	2.1734	2.2004	2.0129	2.0319	-----	2.13	7.26	0.998	1.00	3.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Avg	0.0363	0.0377	0.0366	0.0330	0.0321	0.0286	0.0236	0.0456	-----	0.0342	7.34	0.988	1.00	19		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Camphene	1	0	Avg	0.5015	0.5506	0.5636	0.5776	0.5775	0.5859	0.5483	0.5385	-----	0.555	7.43	0.999	1.00	4.9		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichloropropane	1	0	Avg	0.8972	0.8481	0.8492	0.8873	0.8947	0.9165	0.8697	0.8702	-----	0.879	7.46	0.999	1.00	2.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chlorotoluene	1	0	Avg	1.4147	1.3945	1.3884	1.4060	1.4378	1.4184	1.2355	1.3036	-----	1.37	7.56	0.995	1.00	5.0		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 4.892
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_2

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	2M185180.D	CAL @ 20 PPB	05/26/23 22:39	2	2M185178.D	CAL @ 5 PPB	05/26/23 21:59
3	2M185179.D	CAL @10 PPB	05/26/23 22:19	4	2M185181.D	CAL @ 50 PPB	05/26/23 22:59
5	2M185182.D	CAL @100 PPB	05/26/23 23:19	6	2M185183.D	CAL @250 PPB	05/26/23 23:39
7	2M185184.D	CAL @500 PPB	05/26/23 23:59	8	2M185177.D	CAL @1 PPB	05/26/23 21:39
9	2M185176.D	CAL @ 0.5 PPB	05/26/23 21:19				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	2.2668	2.1845	2.4138	2.5563	2.2775	2.4811	2.1874	2.3671	-----	2.34	7.55	0.996	0.999	5.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Chlorotoluene	1	0	Avg	1.3616	1.3269	1.3254	1.3949	1.3456	1.3805	1.3273	1.1967	-----	1.33	7.62	1.00	1.00	4.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Propylbenzene	1	0	Avg	2.4978	2.4662	2.4410	2.5459	2.5059	2.5053	2.2741	2.4014	-----	2.45	7.49	0.998	1.00	3.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	1.4377	1.4294	1.3732	1.4356	1.4150	1.4350	1.3306	1.3826	-----	1.40	7.46	0.999	1.00	2.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3,5-Trimethylbenzen	1	0	Avg	1.5743	1.5463	1.5271	1.5716	1.5336	1.5768	1.5210	1.5758	-----	1.55	7.58	1.00	1.00	1.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Avg	0.7121	0.6812	0.6573	0.6818	0.6214	0.5670	0.5499	0.6224	-----	0.637	7.59	0.999	1.00	9.0	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butylbenzene	1	0	Avg	1.7118	1.7062	1.6685	1.7460	1.7422	1.7549	1.6627	1.6745	-----	1.71	7.78	0.999	1.00	2.2		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzen	1	0	Avg	1.8612	1.7950	1.7568	1.8720	1.8484	1.8485	1.7459	1.7421	-----	1.81	7.80	0.999	1.00	3.0		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	1.9243	1.9217	1.9195	1.9971	1.9940	1.9904	1.8680	1.8907	-----	1.94	7.90	0.999	1.00	2.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Avg	1.7365	1.7288	1.6844	1.7742	1.7692	1.7664	1.6881	1.7641	-----	1.74	7.97	0.999	1.00	2.1		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butylbenzene	1	0	Avg	1.6211	1.6165	1.6111	1.6878	1.6898	1.6657	1.6008	1.6380	-----	1.64	8.21	1.00	1.00	2.1		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	0.9873	0.9735	0.9465	1.0372	1.0413	1.0459	1.0184	0.9645	-----	1.00	8.19	1.00	1.00	3.9		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4,5-Tetramethylbe	1	0	Avg	1.3392	1.2451	1.2459	1.4201	1.4561	1.4521	1.3925	1.3117	-----	1.36	8.65	1.00	1.00	6.3		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromo-3-Chloro	1	0	Avg	0.1824	0.1637	0.1736	0.1832	0.1988	0.2039	0.2006	0.1676	-----	0.184	8.71	1.00	1.00	8.4	0.05	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Camphor	1	0	Avg	0.0718	0.0638	0.0700	0.0705	0.0755	0.0772	0.0759	0.0763	0.0787	0.0733	9.14	1.00	1.00	6.4		200.0	50.00	100.0	500.0	1000.	2500.	5000.	10.00	5.00
Hexachlorobutadiene	1	0	Avg	0.2310	0.2311	0.2409	0.2479	0.2557	0.2512	0.2362	0.2805	-----	0.247	9.28	0.999	1.00	6.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trichlorobenzen	1	0	Avg	0.5077	0.4824	0.4808	0.5284	0.5437	0.5467	0.5237	0.5160	-----	0.516	9.20	1.00	1.00	4.8	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichlorobenzen	1	0	Avg	0.4097	0.3892	0.4023	0.4287	0.4462	0.4483	0.4411	0.4728	-----	0.430	9.50	1.00	1.00	6.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Naphthalene	1	0	Avg	1.4438	1.3277	1.3810	1.5106	1.5496	1.5812	1.5461	1.5477	-----	1.49	9.36	1.00	1.00	6.2		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags	*Note:* Avg Rsd: 4.892
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Quantitation Report (QT Reviewed)

SampleID : CAL @ 20 PPB Operator : WP Qt Meth : 2M_A0526.M
Data File: 2M185180.D Sam Mult : 1 Vial# : 37 Qt On : 05/27/23 00:06
Acq On : 05/26/23 22:39 Misc : A,5ML Qt Upd On: 05/27/23 00:03

Data Path : G:\GcMsData\2023\GCMS_2\Data\05-26-23\
Qt Path : G:\GcMsData\2023\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.099	96	301467	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.733	117	242237	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	128164	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.703	111	84223	26.35	ug/l	0.00
Spiked Amount 30.000			Recovery = 87.83%			
39) 1,2-Dichloroethane-d4	4.910	67	45186	29.39	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.97%			
66) Toluene-d8	5.952	98	299870	38.10	ug/l	0.00
Spiked Amount 30.000			Recovery = 127.00%			
76) Bromofluorobenzene	7.367	174	112353	33.13	ug/l	0.00
Spiked Amount 30.000			Recovery = 110.43%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.697	51	52109	11.5806	ug/l	97
6) Dichlorodifluoromethane	1.685	85	48626	12.1559	ug/l	99
7) Chloromethane	1.862	50	46940	11.8462	ug/l	96
8) Bromomethane	2.258	94	28164	9.2249	ug/l	100
9) Vinyl Chloride	1.959	62	51545	12.4044	ug/l	99
10) Chloroethane	2.343	64	32844	11.8009	ug/l	99
11) Trichlorofluoromethane	2.563	101	70801	11.1213	ug/l	100
12) Ethyl ether	2.800	59	42907	13.9291	ug/l	93
13) Furan	2.843	39	69396	12.1914	ug/l	98
14) 1,1,2-Trichloro-1,2,2-...	3.002	101	33058	11.5560	ug/l	98
15) Methylene Chloride	3.416	84	46979	13.5661	ug/l	94
16) Acrolein	2.922	56	40163	67.7984	ug/l	97
17) Acrylonitrile	3.623	53	19519	14.1215	ug/l	95
18) Iodomethane	3.154	142	57596	35.1226	ug/l	96
19) Acetone	3.044	43	75518	70.8324	ug/l	99
20) Carbon Disulfide	3.215	76	116769	15.7211	ug/l	100
21) t-Butyl Alcohol	3.483	59	28910	72.0257	ug/l	99
22) n-Hexane	3.873	57	34285	10.5782	ug/l	97
23) Di-isopropyl-ether	4.032	45	127129	12.9434	ug/l	98
24) 1,1-Dichloroethene	3.008	61	62624	12.3895	ug/l	97
25) Methyl Acetate	3.319	43	34835	10.8756	ug/l	100
26) Methyl-t-butyl ether	3.642	73	128417	13.3602	ug/l	96
27) 1,1-Dichloroethane	4.001	63	79709	13.1053	ug/l	100
28) trans-1,2-Dichloroethene	3.648	96	46682	13.4169	ug/l	96
29) Ethyl-t-butyl ether	4.294	59	141157	13.2310	ug/l	97
30) cis-1,2-Dichloroethene	4.410	61	81374	13.3267	ug/l	97
31) Bromochloromethane	4.568	49	39098	12.5575	ug/l	99
32) 2,2-Dichloropropane	4.416	77	70222	13.6925	ug/l	98
33) Ethyl acetate	4.434	43	54921m	15.0647	ug/l	
34) 1,4-Dioxane	5.495	88	23793	536.2983	ug/l	95
35) 1,1-Dichloropropene	4.824	75	60104	12.7249	ug/l	99
36) Chloroform	4.605	83	83652	13.3740	ug/l	99
38) Cyclohexane	4.770	56	49323	10.8905	ug/l	93
40) 1,2-Dichloroethane	4.952	62	69273	13.0851	ug/l	97
41) 2-Butanone	4.410	43	22497m	14.2878	ug/l	
42) 1,1,1-Trichloroethane	4.733	97	77022	13.3278	ug/l	99
43) Carbon Tetrachloride	4.831	117	65245	12.7586	ug/l	98
44) Vinyl Acetate	4.026	43	160697	16.7240	ug/l	100
45) Bromodichloromethane	5.568	83	66735	13.0896	ug/l	97
46) Methylcyclohexane	5.416	83	45544	11.3617	ug/l	95
47) Dibromomethane	5.495	174	43792	15.7618	ug/l	99
48) 1,2-Dichloropropane	5.428	63	46055	12.9794	ug/l	98
49) Trichloroethene	5.300	130	55224	14.1779	ug/l	96
50) Benzene	4.946	78	177708	13.3698	ug/l	100
51) tert-Amyl methyl ether	4.989	73	132375	13.2305	ug/l	96
53) Iso-propylacetate	4.946	43	104912	19.4855	ug/l	96
54) Methyl methacrylate	5.452	41	48815	20.2653	ug/l	95
55) Dibromochloromethane	6.422	129	58001	19.9700	ug/l	99
56) 2-Chloroethylvinylether	5.708	63	24746	16.7617	ug/l	98
57) cis-1,3-Dichloropropene	5.806	75	78006	19.8347	ug/l	99
58) trans-1,3-Dichloropropene	6.093	75	73757	19.2290	ug/l	99
59) Ethyl methacrylate	6.111	41	49545	19.6136	ug/l	91
60) 1,1,2-Trichloroethane	6.196	97	47107	20.6727	ug/l	98
61) 1,2-Dibromoethane	6.495	107	51871	21.0612	ug/l	99
62) 1,3-Dichloropropane	6.288	76	77843	19.9799	ug/l	100
63) 4-Methyl-2-Pentanone	5.867	43	50261	21.5607	ug/l	98
64) 2-Hexanone	6.306	43	37793	21.8546	ug/l	100
65) Tetrachloroethene	6.288	164	43482	20.6885	ug/l	96
67) Toluene	5.989	92	120027	20.1763	ug/l	97

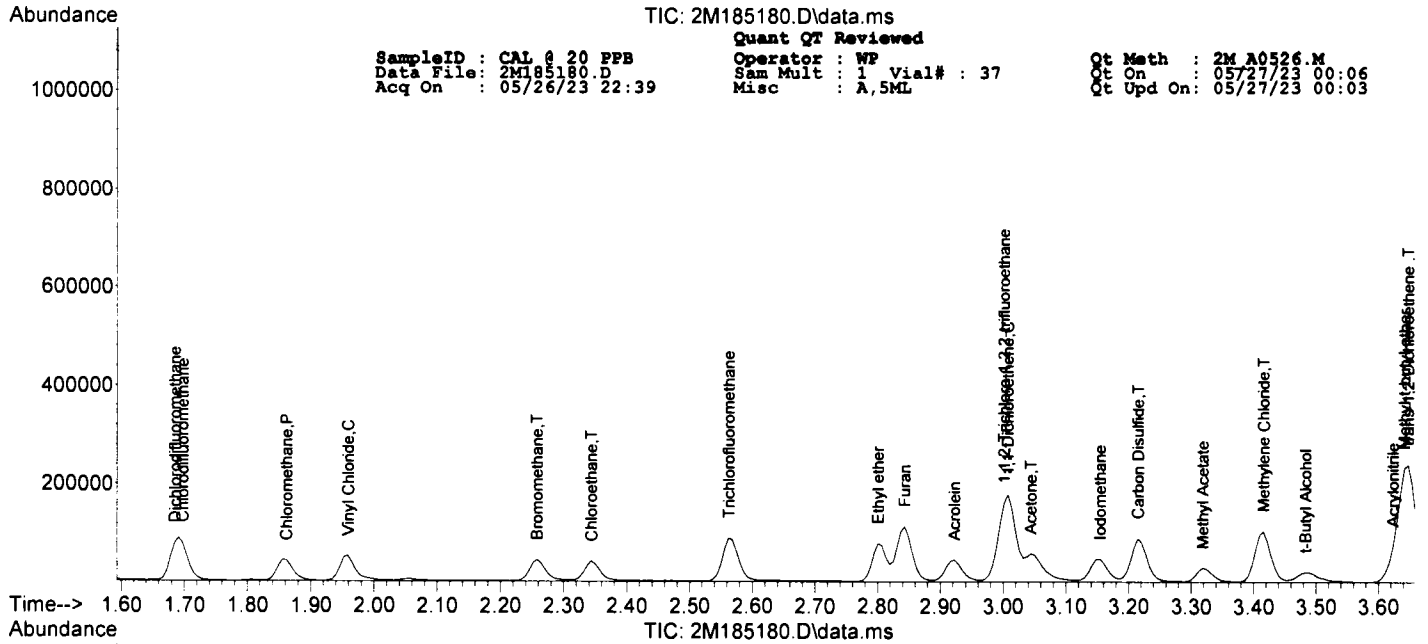
Quantitation Report (QT Reviewed)

SampleID : CAL @ 20 PPB Operator : WP Qt Meth : 2M_A0526.M
Data File: 2M185180.D Sam Mult : 1 Vial# : 37 Qt On : 05/27/23 00:06
Acq On : 05/26/23 22:39 **Misc : A,5ML** **Qt Upd On: 05/27/23 00:03**

Data Path : G:\GcMsData\2023\GCMS_2\Data\05-26-23\
Qt Path : G:\GcMsData\2023\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.781	133	50107	19.8561	ug/l	99
69)	Chlorobenzene	6.751	112	137934	20.3956	ug/l	100
71)	n-Butyl acrylate	6.995	55	101485	23.0046	ug/l	97
72)	n-Amyl acetate	7.111	43	89377	23.6635	ug/l	96
73)	Bromoform	7.202	173	44595	24.5751	ug/l	98
74)	Ethylbenzene	6.794	106	57460	23.4325	ug/l	97
75)	1,1,2,2-Tetrachloroethane	7.415	83	63534	25.7081	ug/l	100
77)	Styrene	7.074	104	148941	23.8651	ug/l	97
78)	m&p-Xylenes	6.848	106	174198	48.8722	ug/l	96
79)	o-Xylene	7.074	106	86746	23.8995	ug/l	98
80)	trans-1,4-Dichloro-2-b...	7.446	53	22104	22.8562	ug/l	99
81)	1,3-Dichlorobenzene	7.989	146	100243	24.9997	ug/l	99
82)	1,4-Dichlorobenzene	8.037	146	102680	25.2177	ug/l	99
83)	1,2-Dichlorobenzene	8.257	146	92902	25.0297	ug/l	100
84)	Isopropylbenzene	7.263	105	188416	23.4458	ug/l	99
85)	Cyclohexanone	7.342	55	15545	142.5206	ug/l	92
86)	Camphene	7.434	93	42857	20.5631	ug/l	97
87)	1,2,3-Trichloropropane	7.458	75	76662	25.2961	ug/l	99
88)	2-Chlorotoluene	7.562	91	120876	23.9959	ug/l	99
89)	p-Ethyltoluene	7.550	105	193685	22.4433	ug/l	99
90)	4-Chlorotoluene	7.617	91	116341	23.6548	ug/l	98
91)	n-Propylbenzene	7.489	91	213421	23.4363	ug/l	98
92)	Bromobenzene	7.464	77	122848	23.6051	ug/l	96
93)	1,3,5-Trimethylbenzene	7.580	105	134516	23.3270	ug/l	88
94)	Butyl methacrylate	7.586	41	60845	21.5678	ug/l	92
95)	t-Butylbenzene	7.775	119	146261	23.7104	ug/l	100
96)	1,2,4-Trimethylbenzene	7.800	105	159030	23.6113	ug/l	99
97)	sec-Butylbenzene	7.897	105	164420	22.9057	ug/l	97
98)	4-Isopropyltoluene	7.970	119	148379	23.8088	ug/l	100
99)	n-Butylbenzene	8.208	91	138513	22.5632	ug/l	98
100)	p-Diethylbenzene	8.190	119	84360	24.1440	ug/l	99
101)	1,2,4,5-Tetramethylben...	8.647	119	114426	25.2061	ug/l	97
102)	1,2-Dibromo-3-Chloropr...	8.708	157	15588	28.9955	ug/l	95
103)	Camphor	9.141	95	61406	286.4793	ug/l	99
104)	Hexachlorobutadiene	9.281	225	19744	26.6686	ug/l	95
105)	1,2,4-Trichlorobenzene	9.202	180	43381	26.1211	ug/l	99
106)	1,2,3-Trichlorobenzene	9.500	180	35013	27.2779	ug/l	97
107)	Naphthalene	9.360	128	123370	27.6101	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
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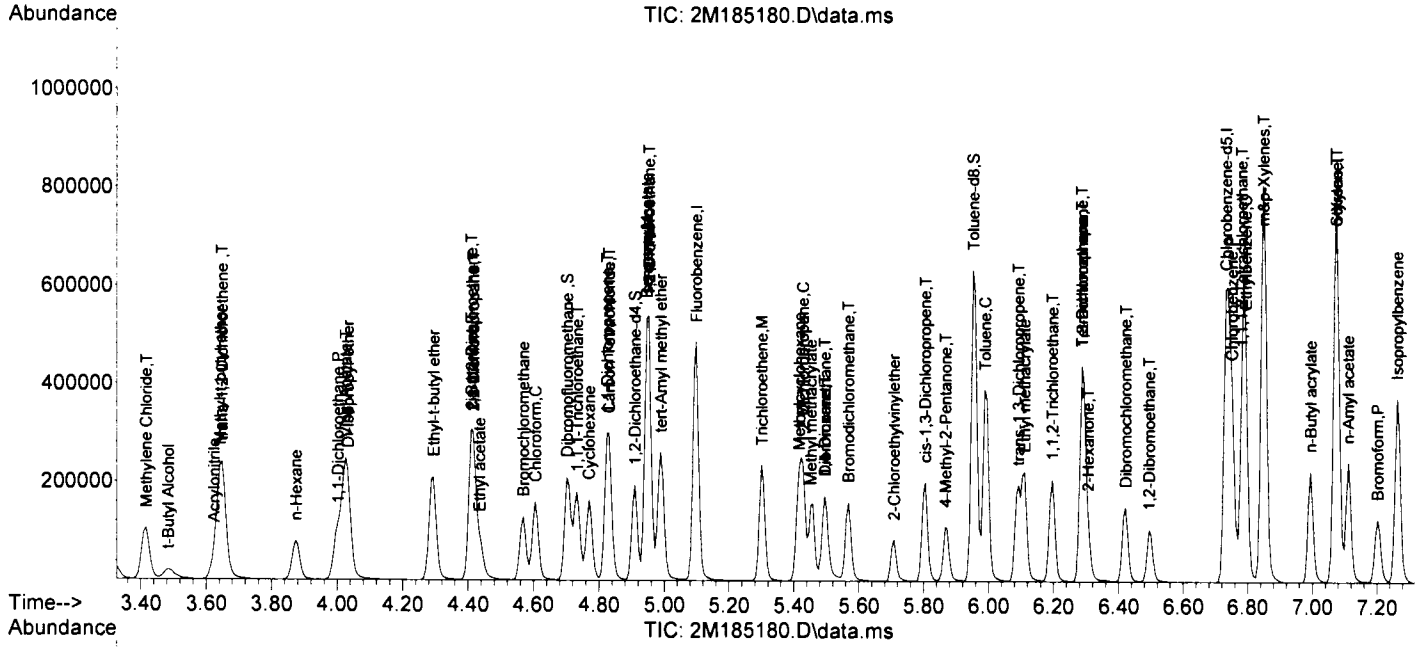
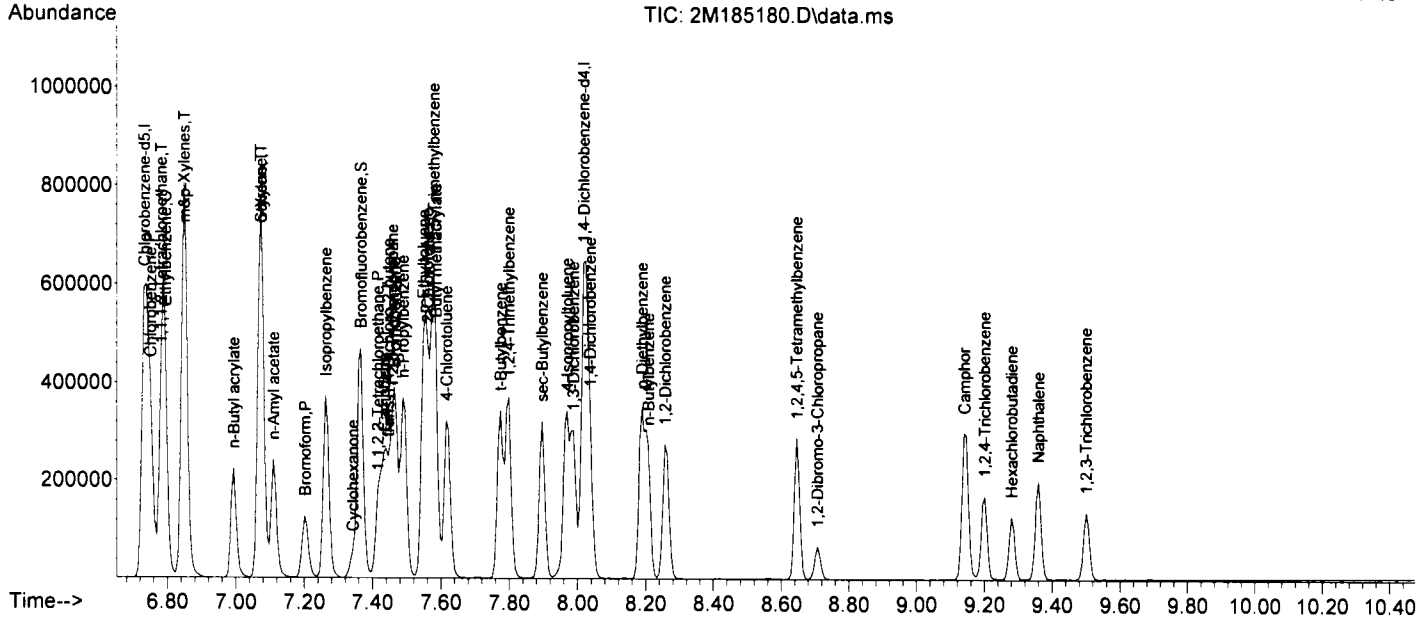
Quant QT Reviewed
SampleID : CAL @ 20 PPB
Data File: 2M185180.D
Acq On : 05/26/23 22:39
Operator : WP
Sam Mult : 1 Vial# : 37
Misc : A,5ML
Qt Meth : 2M_A0526.M
Qt On : 05/27/23 00:06
Qt Upd On: 05/27/23 00:03
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Time-->


Abundance
TIC: 2M185180.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Time-->


Abundance
TIC: 2M185180.D\data.ms
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
Cyclohexanone
4-Chlorotoluene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 5 PPB Operator : WP Qt Meth : 2M_A0526.M
Data File: 2M185178.D Sam Mult : 1 Vial# : 35 Qt On : 05/27/23 00:08
Acq On : 05/26/23 21:59 Misc : A,5ML Qt Upd On: 05/27/23 00:03

Data Path : G:\GcMsData\2023\GCMS_2\Data\05-26-23
Qt Path : G:\GcMsData\2023\GCMS_2\MethodQt
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.099	96	304647	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.733	117	246113	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	130790	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.703	111	83992	26.00	ug/l	0.00
Spiked Amount 30.000			Recovery = 86.67%			
39) 1,2-Dichloroethane-d4	4.910	67	45305	29.16	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.20%			
66) Toluene-d8	5.952	98	301327	37.68	ug/l	0.00
Spiked Amount 30.000			Recovery = 125.60%			
76) Bromofluorobenzene	7.367	174	114563	33.10	ug/l	0.00
Spiked Amount 30.000			Recovery = 110.33%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.697	51	11192	2.4613	ug/l	76
6) Dichlorodifluoromethane	1.685	85	13418	3.3193	ug/l	93
7) Chloromethane	1.855	50	12144	3.0328	ug/l	98
8) Bromomethane	2.258	94	7961	2.5804	ug/l	100
9) Vinyl Chloride	1.959	62	13263	3.1585	ug/l	98
10) Chloroethane	2.343	64	8021	2.8519	ug/l	97
11) Trichlorofluoromethane	2.563	101	19294	2.9990	ug/l	99
12) Ethyl ether	2.800	59	10525	3.3811	ug/l	93
13) Furan	2.843	39	17120	2.9762	ug/l	96
14) 1,1,2-Trichloro-1,2,2-...	3.002	101	9124	3.1562	ug/l	95
15) Methylene Chloride	3.416	84	11579	3.3088	ug/l	91
16) Acrolein	2.922	56	8842	14.7702	ug/l	100
17) Acrylonitrile	3.630	53	4702	3.3663	ug/l	98
18) Iodomethane	3.154	142	10632	6.4158	ug/l	97
19) Acetone	3.050	43	18723	17.3780	ug/l	97
20) Carbon Disulfide	3.215	76	29536	3.9350	ug/l	100
21) t-Butyl Alcohol	3.483	59	7081	17.4573	ug/l	94
22) n-Hexane	3.873	57	9495	2.8990	ug/l	98
23) Di-isopropyl-ether	4.032	45	30696	3.0926	ug/l	96
24) 1,1-Dichloroethene	3.008	61	15844	3.1018	ug/l	94
25) Methyl Acetate	3.319	43	8479	2.6195	ug/l	100
26) Methyl-t-butyl ether	3.642	73	31440	3.2368	ug/l	95
27) 1,1-Dichloroethane	4.001	63	19629	3.1936	ug/l	97
28) trans-1,2-Dichloroethene	3.648	96	11653	3.3142	ug/l	97
29) Ethyl-t-butyl ether	4.294	59	34525	3.2023	ug/l	96
30) cis-1,2-Dichloroethene	4.410	61	19627	3.1808	ug/l	95
31) Bromochloromethane	4.568	49	9663	3.0712	ug/l	98
32) 2,2-Dichloropropane	4.416	77	17469	3.3707	ug/l	96
33) Ethyl acetate	4.440	43	14011m	3.8031	ug/l	
34) 1,4-Dioxane	5.489	88	5818	129.7699	ug/l	94
35) 1,1-Dichloropropene	4.824	75	14828	3.1065	ug/l	96
36) Chloroform	4.605	83	20731	3.2798	ug/l	99
38) Cyclohexane	4.770	56	13821	3.0198	ug/l	93
40) 1,2-Dichloroethane	4.952	62	17660	3.3010	ug/l	98
41) 2-Butanone	4.416	43	4855m	3.0512	ug/l	
42) 1,1,1-Trichloroethane	4.733	97	19256	3.2972	ug/l	100
43) Carbon Tetrachloride	4.831	117	16241	3.1428	ug/l	92
44) Vinyl Acetate	4.026	43	37465	3.8583	ug/l	100
45) Bromodichloromethane	5.568	83	16270	3.1579	ug/l	94
46) Methylcyclohexane	5.416	83	13150	3.2462	ug/l	96
47) Dibromomethane	5.495	174	10761	3.8327	ug/l	94
48) 1,2-Dichloropropane	5.428	63	11247	3.1366	ug/l	96
49) Trichloroethene	5.300	130	13988	3.5537	ug/l	98
50) Benzene	4.946	78	43253	3.2202	ug/l	100
51) tert-Amyl methyl ether	4.989	73	32556	3.2199	ug/l	96
53) Iso-propylacetate	4.946	43	25257	4.6171	ug/l	97
54) Methyl methacrylate	5.458	41	11522	4.7080	ug/l	96
55) Dibromochloromethane	6.422	129	13947	4.7264	ug/l	99
56) 2-Chloroethylvinylether	5.708	63	5712	3.8081	ug/l	97
57) cis-1,3-Dichloropropene	5.806	75	18538	4.6394	ug/l	99
58) trans-1,3-Dichloropropene	6.093	75	17626	4.5229	ug/l	98
59) Ethyl methacrylate	6.111	41	11739	4.5740	ug/l	90
60) 1,1,2-Trichloroethane	6.196	97	11239	4.8545	ug/l	98
61) 1,2-Dibromoethane	6.495	107	12789	5.1109	ug/l	98
62) 1,3-Dichloropropane	6.288	76	19091	4.8229	ug/l	99
63) 4-Methyl-2-Pentanone	5.867	43	12251	5.1726	ug/l	99
64) 2-Hexanone	6.306	43	8734	4.9711	ug/l	96
65) Tetrachloroethene	6.288	164	11581	5.4234	ug/l	94
67) Toluene	5.989	92	29271	4.8429	ug/l	99

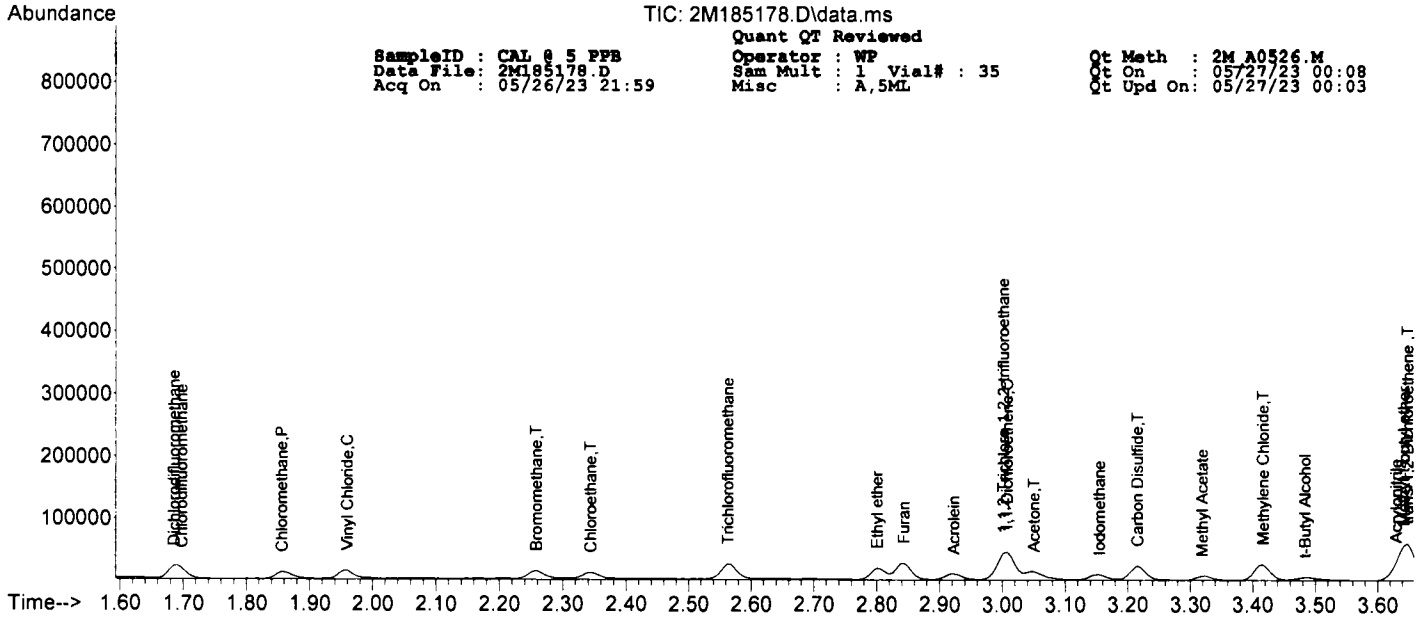
Quantitation Report (QT Reviewed)

SampleID : CAL @ 5 PPB Operator : WP Qt Meth : 2M_A0526.M
Data File: 2M185178.D Sam Mult : 1 Vial# : 35 Qt On : 05/27/23 00:08
Acq On : 05/26/23 21:59 Misc : A,5ML Qt Upd On: 05/27/23 00:03

Data Path : G:\GcMsData\2023\GCMS_2\Data\05-26-23\
Qt Path : G:\GcMsData\2023\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.781	133	12534	4.8887	ug/l	91
69)	Chlorobenzene	6.751	112	34064	4.9575	ug/l	99
71)	n-Butyl acrylate	6.995	55	24266	5.3902	ug/l	96
72)	n-Amyl acetate	7.111	43	21293	5.5244	ug/l	97
73)	Bromoform	7.202	173	10522	5.6820	ug/l	99
74)	Ethylbenzene	6.794	106	14144	5.6522	ug/l	98
75)	1,1,2,2-Tetrachloroethane	7.415	83	15749	6.2447	ug/l	99
77)	Styrene	7.074	104	35649	5.5974	ug/l	97
78)	m&p-Xylenes	6.848	106	42776	11.7601	ug/l	96
79)	o-Xylene	7.074	106	21352	5.7646	ug/l	96
80)	trans-1,4-Dichloro-2-b...	7.446	53	5281	5.3511	ug/l	90
81)	1,3-Dichlorobenzene	7.989	146	24791	6.0585	ug/l	99
82)	1,4-Dichlorobenzene	8.037	146	25622	6.1663	ug/l	97
83)	1,2-Dichlorobenzene	8.263	146	23036	6.0818	ug/l	98
84)	Isopropylbenzene	7.263	105	46628	5.6857	ug/l	100
85)	Cyclohexanone	7.342	55	4114	36.9609	ug/l	91
86)	Camphene	7.434	93	12004	5.6440	ug/l	97
87)	1,2,3-Trichloropropane	7.458	75	18488	5.9780	ug/l	98
88)	2-Chlorotoluene	7.562	91	30399	5.9135	ug/l	99
89)	p-Ethyltoluene	7.550	105	47619	5.4071	ug/l	99
90)	4-Chlorotoluene	7.623	91	28925	5.7630	ug/l	96
91)	n-Propylbenzene	7.489	91	53761	5.7851	ug/l	99
92)	Bromobenzene	7.464	77	31159	5.8670	ug/l	98
93)	1,3,5-Trimethylbenzene	7.580	105	33707	5.7279	ug/l	89
94)	Butyl methacrylate	7.586	41	14849	5.1579	ug/l	86
95)	t-Butylbenzene	7.775	119	37194	5.9085	ug/l	98
96)	1,2,4-Trimethylbenzene	7.800	105	39128	5.6927	ug/l	99
97)	sec-Butylbenzene	7.897	105	41891	5.7187	ug/l	97
98)	4-Isopropyltoluene	7.970	119	37686	5.9257	ug/l	98
99)	n-Butylbenzene	8.208	91	35237	5.6247	ug/l	98
100)	p-Diethylbenzene	8.190	119	21222	5.9518	ug/l	98
101)	1,2,4,5-Tetramethylben...	8.647	119	27143	5.8591	ug/l	97
102)	1,2-Dibromo-3-Chloropr...	8.708	157	3570	6.5073	ug/l	93
103)	Camphor	9.141	95	13908	63.5827	ug/l	98
104)	Hexachlorobutadiene	9.281	225	5038	6.6683	ug/l	92
105)	1,2,4-Trichlorobenzene	9.202	180	10516	6.2049	ug/l	96
106)	1,2,3-Trichlorobenzene	9.500	180	8484	6.4770	ug/l	97
107)	Naphthalene	9.360	128	28942	6.3471	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed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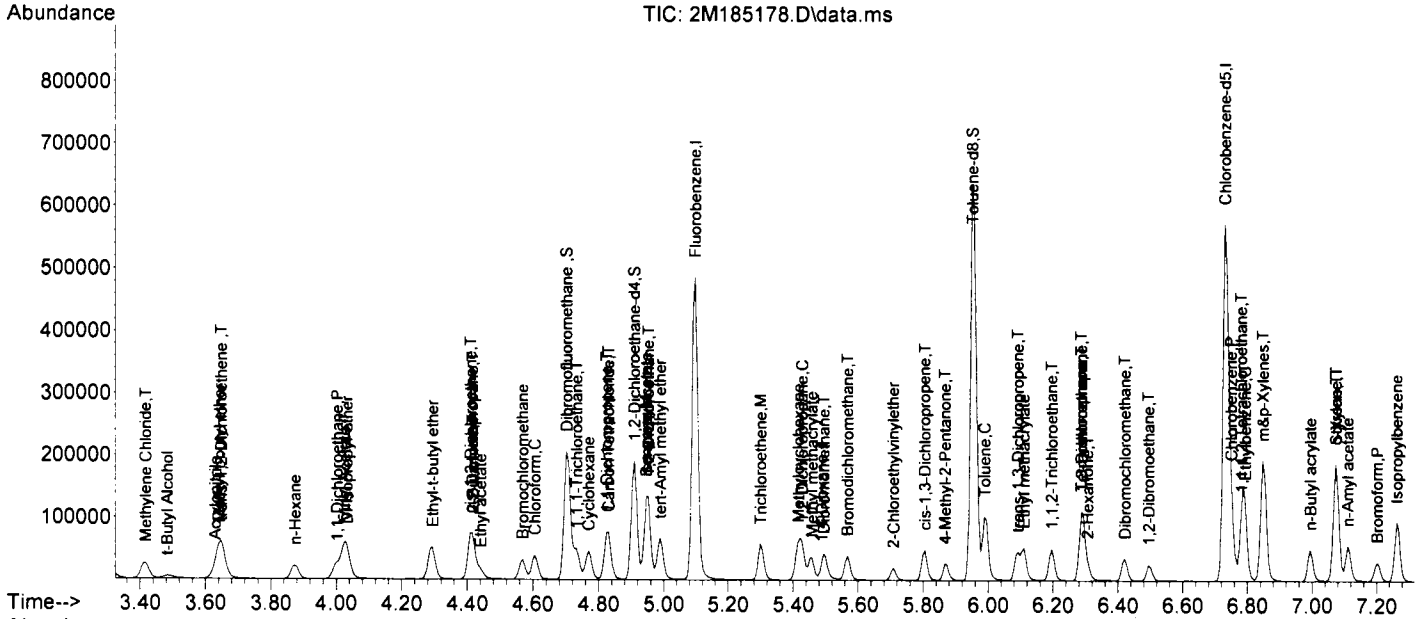
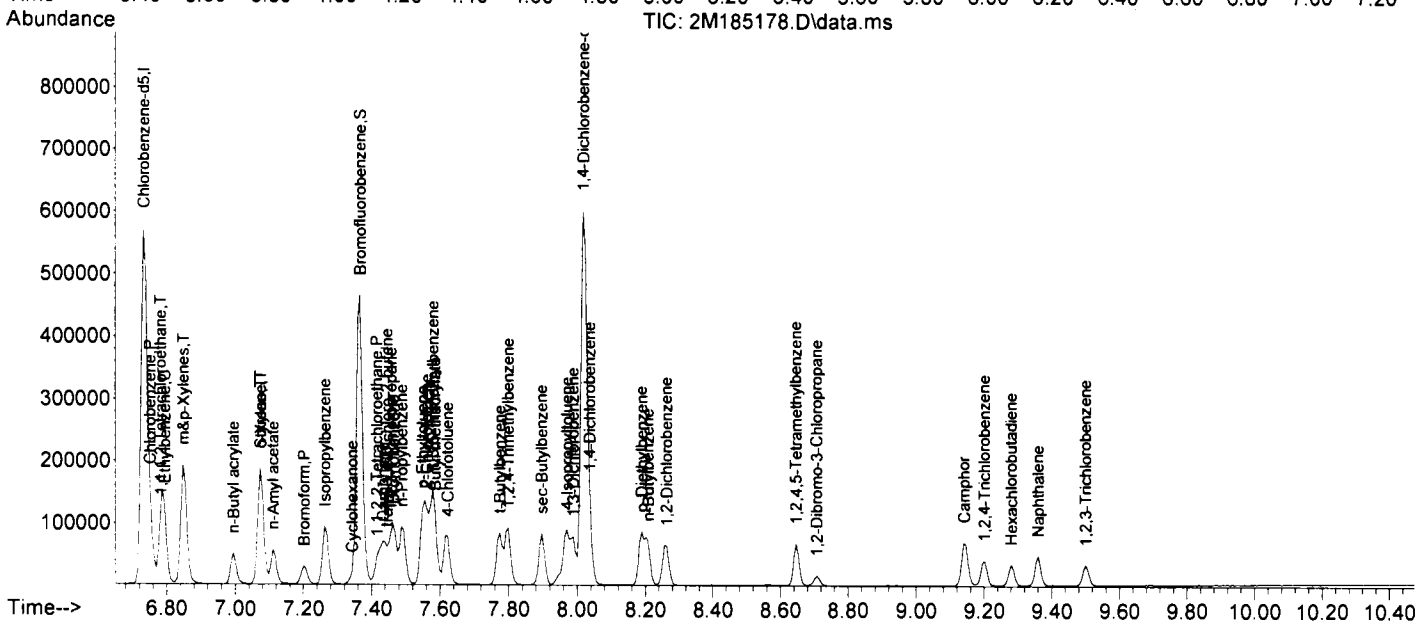
Quant QT Reviewed
SampleID : CAL @ 5 PPB
Data File: 2M185178.D
Acq On : 05/26/23 21:59
Operator : WP
Sam Mult : 1 Vial# : 35
Misc : A,5ML
Qt Meth : 2M_A0526.M
Qt On : 05/27/23 00:08
Qt Upd On: 05/27/23 00:03
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Time-->


Abundance
TIC: 2M185178.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene,C
Toluene-d8,S
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Time-->


Abundance
TIC: 2M185178.D\data.ms
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
4-Chlorotoluene
sec-Butylbenzene
1,4-Dichlorobenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @10 PPB Operator : WP Qt Meth : 2M_A0526.M
Data File: 2M185179.D Sam Mult : 1 Vial# : 36 Qt On : 05/27/23 00:07
Acq On : 05/26/23 22:19 Misc : A,5ML Qt Upd On: 05/27/23 00:03

Data Path : G:\GcMsData\2023\GCMS_2\Data\05-26-23\
Qt Path : G:\GcMsData\2023\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.098	96	307157	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.732	117	249305	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	131609	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.702	111	85040	26.11	ug/l	0.00
Spiked Amount 30.000			Recovery = 87.03%			
39) 1,2-Dichloroethane-d4	4.909	67	45628	29.13	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.10%			
66) Toluene-d8	5.952	98	304907	37.64	ug/l	0.00
Spiked Amount 30.000			Recovery = 125.47%			
76) Bromofluorobenzene	7.366	174	115544	33.18	ug/l	0.00
Spiked Amount 30.000			Recovery = 110.60%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.697	51	22421	4.8905	ug/l	71
6) Dichlorodifluoromethane	1.684	85	27946	6.8567	ug/l	98
7) Chloromethane	1.855	50	23407	5.7977	ug/l	100
8) Bromomethane	2.257	94	14522	4.6685	ug/l	91
9) Vinyl Chloride	1.953	62	26501	6.2594	ug/l	98
10) Chloroethane	2.343	64	16701	5.8895	ug/l	100
11) Trichlorofluoromethane	2.562	101	38214	5.8914	ug/l	99
12) Ethyl ether	2.800	59	20923	6.6665	ug/l	94
13) Furan	2.843	39	33434	5.7648	ug/l	98
14) 1,1,2-Trichloro-1,2,2-...	3.001	101	19051	6.5363	ug/l	97
15) Methylene Chloride	3.416	84	22769	6.4532	ug/l	95
16) Acrolein	2.922	56	20387	33.7774	ug/l	98
17) Acrylonitrile	3.623	53	9532	6.7684	ug/l	97
18) Iodomethane	3.154	142	20619	12.3407	ug/l	95
19) Acetone	3.044	43	37917	34.9056	ug/l	97
20) Carbon Disulfide	3.215	76	59125	7.8128	ug/l	100
21) t-Butyl Alcohol	3.483	59	13872	33.9201	ug/l	90
22) n-Hexane	3.873	57	19673	5.9574	ug/l	99
23) Di-isopropyl-ether	4.032	45	61489	6.1444	ug/l	96
24) 1,1-Dichloroethene	3.007	61	32125	6.2378	ug/l	96
25) Methyl Acetate	3.318	43	17198	5.2698	ug/l	100
26) Methyl-t-butyl ether	3.641	73	62512	6.3831	ug/l	97
27) 1,1-Dichloroethane	4.001	63	39108	6.3108	ug/l	99
28) trans-1,2-Dichloroethene	3.647	96	22824	6.4384	ug/l	97
29) Ethyl-t-butyl ether	4.294	59	67876	6.2443	ug/l	96
30) cis-1,2-Dichloroethene	4.409	61	39474	6.3450	ug/l	96
31) Bromochloromethane	4.568	49	18869	5.9481	ug/l	98
32) 2,2-Dichloropropane	4.416	77	34785	6.6570	ug/l	98
33) Ethyl acetate	4.434	43	27484m	7.3991	ug/l	
34) 1,4-Dioxane	5.495	88	11633	257.3524	ug/l	96
35) 1,1-Dichloropropene	4.824	75	30576	6.3534	ug/l	98
36) Chloroform	4.605	83	41421	6.4996	ug/l	97
38) Cyclohexane	4.769	56	28558	6.1888	ug/l	93
40) 1,2-Dichloroethane	4.952	62	33911	6.2868	ug/l	100
41) 2-Butanone	4.416	43	10980m	6.8442	ug/l	
42) 1,1,1-Trichloroethane	4.733	97	38818	6.5926	ug/l	97
43) Carbon Tetrachloride	4.830	117	33193	6.3706	ug/l	93
44) Vinyl Acetate	4.025	43	77608	7.9272	ug/l	100
45) Bromodichloromethane	5.568	83	32279	6.2140	ug/l	98
46) Methylcyclohexane	5.415	83	26335	6.4480	ug/l	95
47) Dibromomethane	5.495	174	21340	7.5385	ug/l	99
48) 1,2-Dichloropropane	5.428	63	22531	6.2321	ug/l	95
49) Trichloroethene	5.300	130	27077	6.8228	ug/l	98
50) Benzene	4.946	78	86655	6.3987	ug/l	100
51) tert-Amyl methyl ether	4.989	73	63829	6.2614	ug/l	96
53) Iso-propylacetate	4.946	43	50761	9.1606	ug/l	97
54) Methyl methacrylate	5.458	41	23522	9.4882	ug/l	95
55) Dibromochloromethane	6.421	129	28079	9.3936	ug/l	98
56) 2-Chloroethylvinylether	5.708	63	11980	7.8846	ug/l	94
57) cis-1,3-Dichloropropene	5.806	75	37049	9.1534	ug/l	99
58) trans-1,3-Dichloropropene	6.092	75	35154	8.9051	ug/l	99
59) Ethyl methacrylate	6.110	41	24145	9.2874	ug/l	89
60) 1,1,2-Trichloroethane	6.196	97	23014	9.8133	ug/l	98
61) 1,2-Dibromoethane	6.494	107	25308	9.9845	ug/l	99
62) 1,3-Dichloropropane	6.287	76	37095	9.2512	ug/l	100
63) 4-Methyl-2-Pentanone	5.867	43	24973	10.4091	ug/l	96
64) 2-Hexanone	6.305	43	18242	10.2497	ug/l	97
65) Tetrachloroethene	6.287	164	22775	10.5290	ug/l	99
67) Toluene	5.988	92	58670	9.5827	ug/l	98

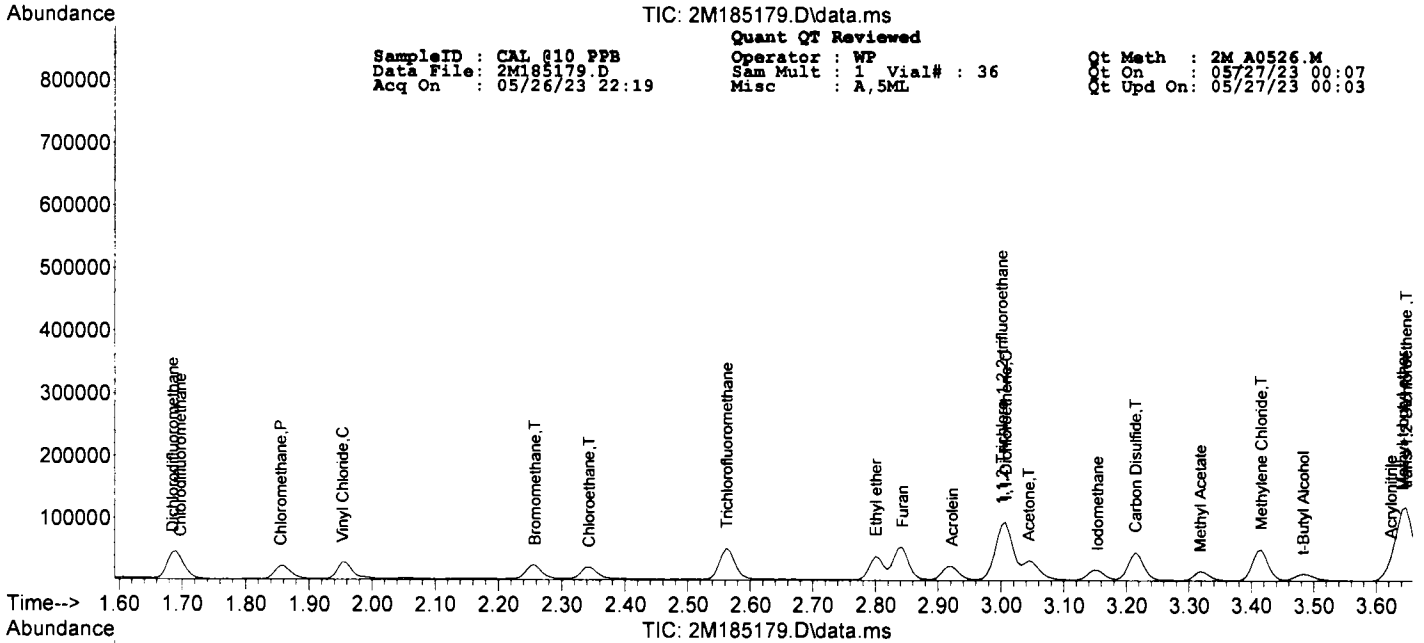
Quantitation Report (QT Reviewed)

SampleID : CAL @10 PPB Operator : WP Qt Meth : 2M_A0526.M
Data File: 2M185179.D Sam Mult : 1 Vial# : 36 Qt On : 05/27/23 00:07
Acq On : 05/26/23 22:19 **Misc : A,5ML** **Qt Upd On: 05/27/23 00:03**

Data Path : G:\GcMsData\2023\GCMS_2\Data\05-26-23\
Qt Path : G:\GcMsData\2023\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.787	133	24407	9.3976	ug/l	96
69)	Chlorobenzene	6.751	112	67369	9.6791	ug/l	99
71)	n-Butyl acrylate	6.994	55	48140	10.6267	ug/l	98
72)	n-Amyl acetate	7.110	43	43234	11.1470	ug/l	96
73)	Bromoform	7.202	173	20978	11.2578	ug/l	99
74)	Ethylbenzene	6.793	106	28934	11.4906	ug/l	96
75)	1,1,2,2-Tetrachloroethane	7.415	83	31283	12.3269	ug/l	97
77)	Styrene	7.074	104	71275	11.1216	ug/l	97
78)	m&p-Xylenes	6.848	106	85647	23.3998	ug/l	93
79)	o-Xylene	7.074	106	41524	11.1409	ug/l	98
80)	trans-1,4-Dichloro-2-b...	7.446	53	11120	11.1974	ug/l	92
81)	1,3-Dichlorobenzene	7.988	146	49219	11.9535	ug/l	99
82)	1,4-Dichlorobenzene	8.037	146	49570	11.8555	ug/l	99
83)	1,2-Dichlorobenzene	8.262	146	45004	11.8076	ug/l	99
84)	Isopropylbenzene	7.263	105	92305	11.1854	ug/l	99
85)	Cyclohexanone	7.342	55	8029	71.6851	ug/l	93
86)	Camphene	7.433	93	24727	11.5536	ug/l	99
87)	1,2,3-Trichloropropane	7.458	75	37256	11.9715	ug/l	99
88)	2-Chlorotoluene	7.561	91	60909	11.7749	ug/l	98
89)	p-Ethyltoluene	7.549	105	105895	11.9494	ug/l	92
90)	4-Chlorotoluene	7.616	91	58148	11.5134	ug/l	97
91)	n-Propylbenzene	7.494	91	107088	11.4518	ug/l	99
92)	Bromobenzene	7.464	77	60243	11.2726	ug/l	96
93)	1,3,5-Trimethylbenzene	7.580	105	66994	11.3136	ug/l	90
94)	Butyl methacrylate	7.586	41	28837	9.9543	ug/l	92
95)	t-Butylbenzene	7.775	119	73197	11.5554	ug/l	98
96)	1,2,4-Trimethylbenzene	7.799	105	77074	11.1437	ug/l	99
97)	sec-Butylbenzene	7.897	105	84208	11.4241	ug/l	96
98)	4-Isopropyltoluene	7.970	119	73895	11.5468	ug/l	98
99)	n-Butylbenzene	8.208	91	70682	11.2124	ug/l	99
100)	p-Diethylbenzene	8.189	119	41526	11.5737	ug/l	99
101)	1,2,4,5-Tetramethylben...	8.647	119	54661	11.7257	ug/l	97
102)	1,2-Dibromo-3-Chloropr...	8.707	157	7616	13.7958	ug/l	92
103)	Camphor	9.140	95	30732	139.6220	ug/l	100
104)	Hexachlorobutadiene	9.281	225	10569	13.9021	ug/l	97
105)	1,2,4-Trichlorobenzene	9.201	180	21094	12.3689	ug/l	99
106)	1,2,3-Trichlorobenzene	9.500	180	17649	13.3900	ug/l	97
107)	Naphthalene	9.360	128	60585	13.2040	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed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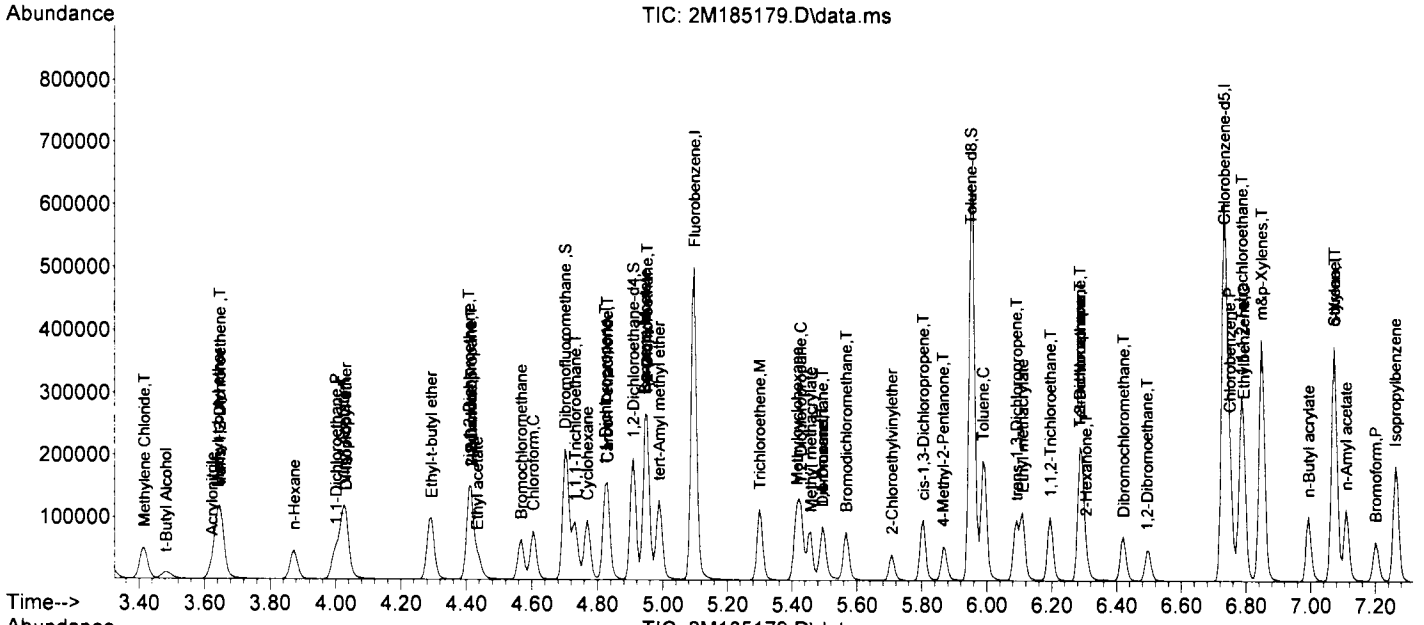
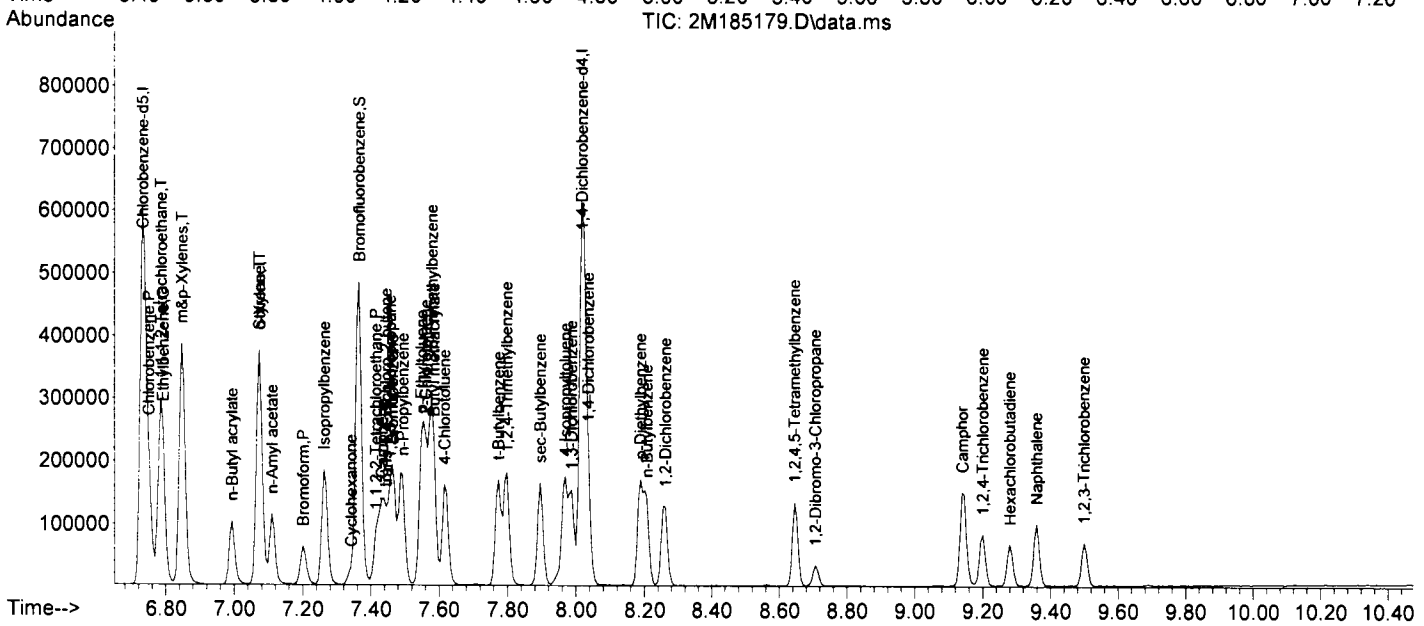
Quant QT Reviewed
SampleID : CAL @10 PPB
Data File: 2M185179.D
Acq On : 05/26/23 22:19
Operator : WP
Sam Mult : 1 Vial# : 36
Misc : A,5ML
Qt Meth : 2M_A0526.M
Qt On : 05/27/23 00:07
Qt Upd On: 05/27/23 00:03
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Time-->


Abundance
TIC: 2M185179.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
Fluorobenzene,I
Trichloroethene,M
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene,C
Toluene-d8,S
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,P
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Time-->


Abundance
TIC: 2M185179.D\data.ms
Chlorobenzene-d5,I
Chlorobenzene,P
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
4-Chlorotoluene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,4-Dichlorobenzene
n-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 50 PPB Operator : WP Qt Meth : 2M_A0526.M
Data File: 2M185181.D Sam Mult : 1 Vial# : 38 Qt On : 05/27/23 00:05
Acq On : 05/26/23 22:59 Misc : A,5ML Qt Upd On: 05/27/23 00:03

Data Path : G:\GcMsData\2023\GCMS_2\Data\05-26-23\
Qt Path : G:\GcMsData\2023\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.099	96	297065	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.733	117	238975	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	125539	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.702	111	82057	26.05	ug/l	0.00
Spiked Amount 30.000			Recovery = 86.83%			
39) 1,2-Dichloroethane-d4	4.910	67	42868	28.29	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.30%			
66) Toluene-d8	5.952	98	294016	37.86	ug/l	0.00
Spiked Amount 30.000			Recovery = 126.20%			
76) Bromofluorobenzene	7.367	174	109831	33.06	ug/l	0.00
Spiked Amount 30.000			Recovery = 110.20%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.697	51	147760	33.3246	ug/l	96
6) Dichlorodifluoromethane	1.685	85	135774	34.4447	ug/l	100
7) Chloromethane	1.855	50	116287	29.7820	ug/l	99
8) Bromomethane	2.258	94	66738	22.1835	ug/l	100
9) Vinyl Chloride	1.959	62	133140	32.5152	ug/l	99
10) Chloroethane	2.343	64	80510	29.3560	ug/l	97
11) Trichlorofluoromethane	2.563	101	174477	27.8128	ug/l	97
12) Ethyl ether	2.800	59	105838	34.8678	ug/l	93
13) Furan	2.843	39	167539	29.8691	ug/l	99
14) 1,1,2-Trichloro-1,2,2-...	3.001	101	91427	32.4336	ug/l	97
15) Methylene Chloride	3.416	84	115539	33.8585	ug/l	97
16) Acrolein	2.916	56	102364	175.3592	ug/l	95
17) Acrylonitrile	3.617	53	48355	35.5019	ug/l	99
18) Iodomethane	3.148	142	161847	100.1584	ug/l	97
19) Acetone	3.044	43	176787	168.2751	ug/l	98
20) Carbon Disulfide	3.215	76	299057	40.8598	ug/l	100
21) t-Butyl Alcohol	3.483	59	67334	170.2402	ug/l	96
22) n-Hexane	3.873	57	98488	30.8374	ug/l	98
23) Di-isopropyl-ether	4.032	45	313388	32.3798	ug/l	98
24) 1,1-Dichloroethene	3.008	61	157536	31.6286	ug/l	95
25) Methyl Acetate	3.318	43	83837	26.5620	ug/l	100
26) Methyl-t-butyl ether	3.642	73	318640	33.6418	ug/l	98
27) 1,1-Dichloroethane	4.001	63	195901	32.6863	ug/l	99
28) trans-1,2-Dichloroethene	3.648	96	117778	34.3523	ug/l	97
29) Ethyl-t-butyl ether	4.294	59	349022	33.1995	ug/l	97
30) cis-1,2-Dichloroethene	4.410	61	198260	32.9505	ug/l	97
31) Bromochloromethane	4.568	49	95970	31.2804	ug/l	97
32) 2,2-Dichloropropane	4.416	77	174110	34.4525	ug/l	98
33) Ethyl acetate	4.434	43	136397m	37.9677	ug/l	
34) 1,4-Dioxane	5.495	88	57039	1304.7203	ug/l	94
35) 1,1-Dichloropropene	4.824	75	151876	32.6307	ug/l	98
36) Chloroform	4.605	83	206330	33.4762	ug/l	99
38) Cyclohexane	4.769	56	138930	31.1302	ug/l	92
40) 1,2-Dichloroethane	4.952	62	165257	31.6781	ug/l	99
41) 2-Butanone	4.410	43	59588m	38.4049	ug/l	
42) 1,1,1-Trichloroethane	4.733	97	190908	33.5239	ug/l	99
43) Carbon Tetrachloride	4.830	117	167544	33.2485	ug/l	97
44) Vinyl Acetate	4.020	43	391176	41.3136	ug/l	100
45) Bromodichloromethane	5.568	83	164284	32.7006	ug/l	99
46) Methylcyclohexane	5.416	83	132166	33.4594	ug/l	96
47) Dibromomethane	5.495	174	109482	39.9891	ug/l	98
48) 1,2-Dichloropropane	5.428	63	116759	33.3930	ug/l	98
49) Trichloroethene	5.300	130	137295	35.7707	ug/l	100
50) Benzene	4.946	78	438991	33.5168	ug/l	100
51) tert-Amyl methyl ether	4.989	73	330386	33.5105	ug/l	98
53) Iso-propylacetate	4.946	43	251144	47.2821	ug/l	98
54) Methyl methacrylate	5.452	41	115125	48.4460	ug/l	98
55) Dibromochloromethane	6.422	129	144252	50.3444	ug/l	100
56) 2-Chloroethylvinylether	5.708	63	64123	44.0265	ug/l	97
57) cis-1,3-Dichloropropene	5.806	75	195291	50.3347	ug/l	100
58) trans-1,3-Dichloropropene	6.092	75	183933	48.6072	ug/l	98
59) Ethyl methacrylate	6.111	41	118024	47.3605	ug/l	95
60) 1,1,2-Trichloroethane	6.196	97	114133	50.7705	ug/l	99
61) 1,2-Dibromoethane	6.495	107	126040	51.8746	ug/l	100
62) 1,3-Dichloropropane	6.287	76	188554	49.0566	ug/l	100
63) 4-Methyl-2-Pentanone	5.867	43	119170	51.8188	ug/l	100
64) 2-Hexanone	6.306	43	87645	51.3744	ug/l	97
65) Tetrachloroethene	6.287	164	110807	53.4410	ug/l	99
67) Toluene	5.989	92	294694	50.2136	ug/l	97

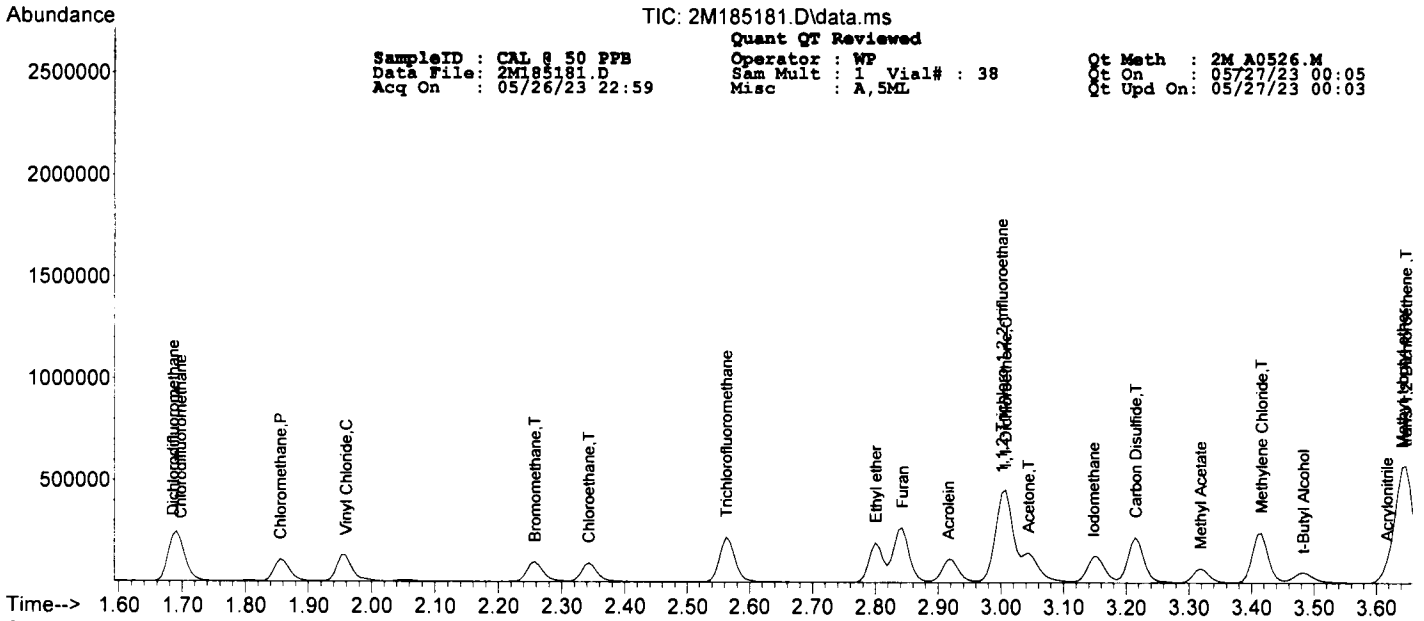
Quantitation Report (QT Reviewed)

SampleID : CAL @ 50 PPB Operator : WP Qt Meth : 2M_A0526.M
Data File: 2M185181.D Sam Mult : 1 Vial# : 38 Qt On : 05/27/23 00:05
Acq On : 05/26/23 22:59 **Misc : A,5ML** **Qt Upd On: 05/27/23 00:03**

Data Path : G:\GcMsData\2023\GCMS_2\Data\05-26-23\
Qt Path : G:\GcMsData\2023\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.781	133	124064	49.8343	ug/l	100
69)	Chlorobenzene	6.751	112	335737	50.3213	ug/l	99
71)	n-Butyl acrylate	6.995	55	251354	58.1683	ug/l	97
72)	n-Amyl acetate	7.110	43	208949	56.4782	ug/l	98
73)	Bromoform	7.202	173	110417	62.1202	ug/l	97
74)	Ethylbenzene	6.793	106	143535	59.7582	ug/l	96
75)	1,1,2,2-Tetrachloroethane	7.421	83	151977	62.7811	ug/l	97
77)	Styrene	7.074	104	366463	59.9469	ug/l	96
78)	m&p-Xylenes	6.848	106	427860	122.5485	ug/l	97
79)	o-Xylene	7.074	106	210860	59.3090	ug/l	97
80)	trans-1,4-Dichloro-2-b...	7.446	53	54357	57.3821	ug/l	98
81)	1,3-Dichlorobenzene	7.988	146	243557	62.0109	ug/l	99
82)	1,4-Dichlorobenzene	8.037	146	249458	62.5468	ug/l	99
83)	1,2-Dichlorobenzene	8.263	146	227954	62.6998	ug/l	99
84)	Isopropylbenzene	7.263	105	460594	58.5131	ug/l	99
85)	Cyclohexanone	7.342	55	34518	323.0873	ug/l	95
86)	Camphene	7.434	93	120872	59.2079	ug/l	97
87)	1,2,3-Trichloropropane	7.458	75	185665	62.5447	ug/l	100
88)	2-Chlorotoluene	7.562	91	294187	59.6222	ug/l	99
89)	p-Ethyltoluene	7.549	105	534871	63.2744	ug/l	93
90)	4-Chlorotoluene	7.617	91	291867	60.5842	ug/l	98
91)	n-Propylbenzene	7.495	91	532692	59.7194	ug/l	99
92)	Bromobenzene	7.464	77	300375	58.9235	ug/l	96
93)	1,3,5-Trimethylbenzene	7.580	105	328841	58.2182	ug/l	88
94)	Butyl methacrylate	7.586	41	142657	51.6251	ug/l	97
95)	t-Butylbenzene	7.775	119	365328	60.4618	ug/l	98
96)	1,2,4-Trimethylbenzene	7.799	105	391699	59.3719	ug/l	99
97)	sec-Butylbenzene	7.897	105	417868	59.4312	ug/l	97
98)	4-Isopropyltoluene	7.970	119	371229	60.8128	ug/l	100
99)	n-Butylbenzene	8.208	91	353160	58.7313	ug/l	98
100)	p-Diethylbenzene	8.190	119	217027	63.4122	ug/l	98
101)	1,2,4,5-Tetramethylben...	8.647	119	297148	66.8253	ug/l	96
102)	1,2-Dibromo-3-Chloropr...	8.708	157	38350	72.8272	ug/l	96
103)	Camphor	9.141	95	147541	702.7204	ug/l	99
104)	Hexachlorobutadiene	9.281	225	51882	71.5434	ug/l	95
105)	1,2,4-Trichlorobenzene	9.202	180	110563	67.9656	ug/l	99
106)	1,2,3-Trichlorobenzene	9.500	180	89717	71.3580	ug/l	96
107)	Naphthalene	9.360	128	316072	72.2158	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed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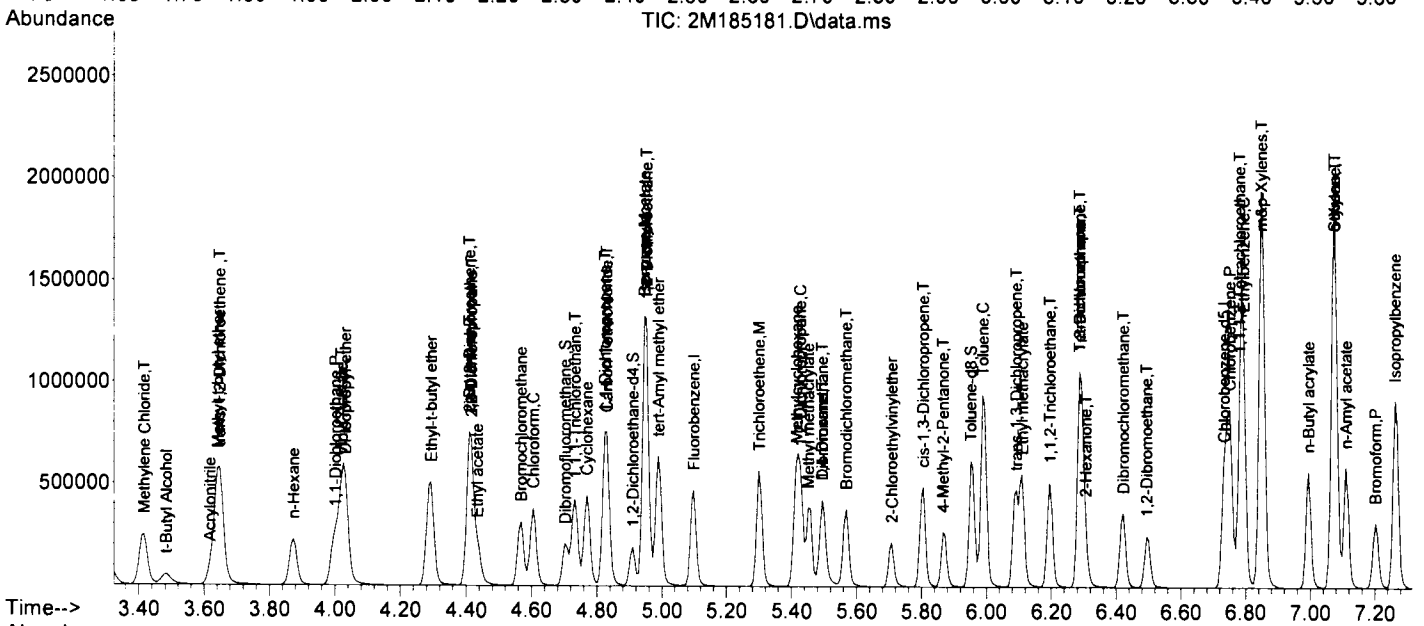
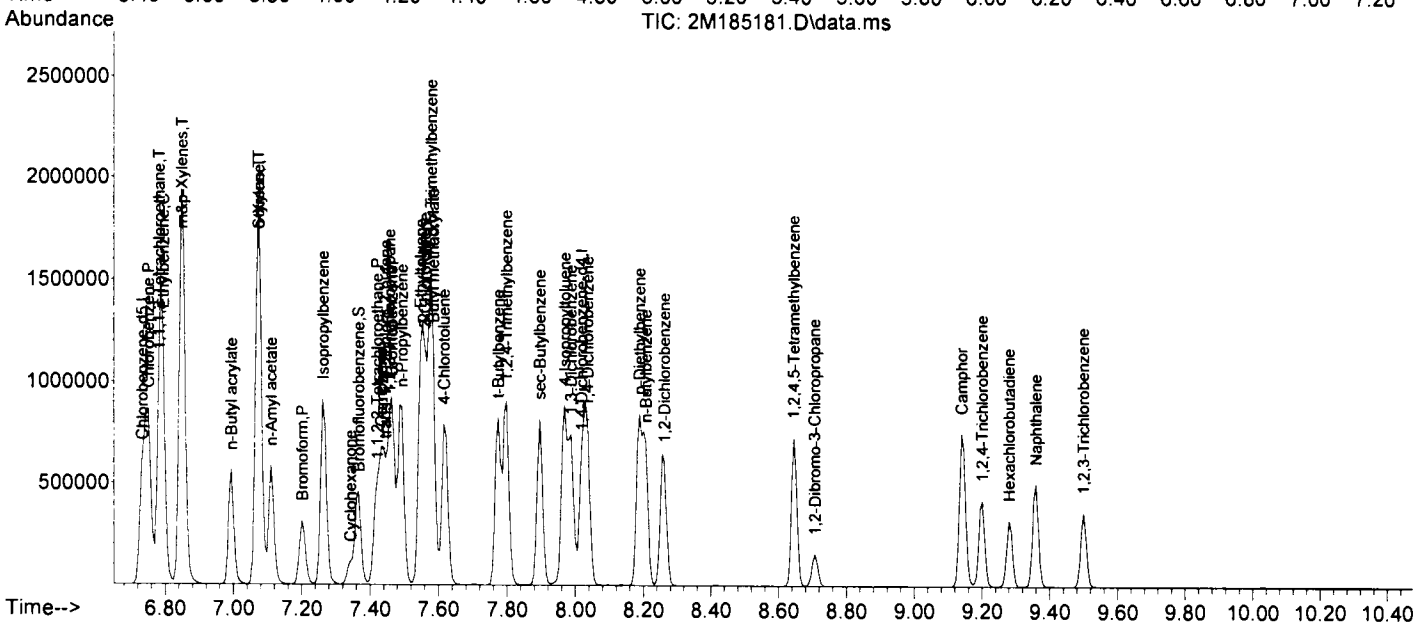
Quant QT Reviewed
SampleID : CAL @ 50 PPB
Data File: 2M185181.D
Acq On : 05/26/23 22:59
Operator : WP
Sam Mult : 1 Vial# : 38
Misc : A,5ML
Qt Meth : 2M_A0526.M
Qt On : 05/27/23 00:05
Qt Upd On: 05/27/23 00:03
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
Time-->


Abundance
TIC: 2M185181.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,C
Cyclohexane
Fluorobenzene,I
Trichloroethene,M
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Time-->


Abundance
TIC: 2M185181.D\data.ms
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
4-Chlorotoluene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @100 PPB Operator : WP Qt Meth : 2M_A0526.M
Data File: 2M185182.D Sam Mult : 1 Vial# : 39 Qt On : 05/27/23 00:04
Acq On : 05/26/23 23:19 Misc : A,5ML Qt Upd On: 05/27/23 00:03

Data Path : G:\GcMsData\2023\GCMS_2\Data\05-26-23\
Qt Path : G:\GcMsData\2023\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.099	96	297454	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.733	117	240455	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	128474	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.702	111	81612	25.87	ug/l	0.00
Spiked Amount 30.000			Recovery = 86.23%			
39) 1,2-Dichloroethane-d4	4.910	67	43553	28.71	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.70%			
66) Toluene-d8	5.952	98	293703	37.59	ug/l	0.00
Spiked Amount 30.000			Recovery = 125.30%			
76) Bromofluorobenzene	7.367	174	112116	32.98	ug/l	0.00
Spiked Amount 30.000			Recovery = 109.93%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.697	51	306201	68.9678	ug/l	96
6) Dichlorodifluoromethane	1.685	85	283034	71.7094	ug/l	99
7) Chloromethane	1.855	50	225218	57.6046	ug/l	100
8) Bromomethane	2.258	94	134757	44.7342	ug/l	100
9) Vinyl Chloride	1.953	62	265048	64.6448	ug/l	98
10) Chloroethane	2.343	64	158551	57.7361	ug/l	98
11) Trichlorofluoromethane	2.563	101	368865	58.7226	ug/l	98
12) Ethyl ether	2.800	59	212625	69.9566	ug/l	93
13) Furan	2.837	39	332059	59.1225	ug/l	99
14) 1,1,2-Trichloro-1,2,2-...	2.995	101	190777	67.5894	ug/l	97
15) Methylene Chloride	3.416	84	230846	67.5606	ug/l	98
16) Acrolein	2.916	56	220149	376.6428	ug/l	97
17) Acrylonitrile	3.617	53	98486	72.2133	ug/l	98
18) Iodomethane	3.148	142	327832	202.6123	ug/l	96
19) Acetone	3.044	43	362441	344.5391	ug/l	97
20) Carbon Disulfide	3.215	76	602357	82.1917	ug/l	100
21) t-Butyl Alcohol	3.483	59	146900	370.9207	ug/l	98
22) n-Hexane	3.873	57	203187	63.5362	ug/l	97
23) Di-isopropyl-ether	4.032	45	621325	64.1125	ug/l	99
24) 1,1-Dichloroethene	3.008	61	315541	63.2685	ug/l	97
25) Methyl Acetate	3.319	43	196097	62.0479	ug/l	100
26) Methyl-t-butyl ether	3.642	73	636721	67.1367	ug/l	98
27) 1,1-Dichloroethane	4.001	63	390929	65.1416	ug/l	100
28) trans-1,2-Dichloroethene	3.648	96	234542	68.3195	ug/l	96
29) Ethyl-t-butyl ether	4.288	59	693477	65.8783	ug/l	97
30) cis-1,2-Dichloroethene	4.410	61	393841	65.3701	ug/l	98
31) Bromochloromethane	4.568	49	185965	60.5341	ug/l	94
32) 2,2-Dichloropropane	4.416	77	343274	67.8374	ug/l	98
33) Ethyl acetate	4.434	43	271557m	75.4921	ug/l	
34) 1,4-Dioxane	5.495	88	124961	2854.6421	ug/l	96
35) 1,1-Dichloropropene	4.824	75	304947	65.4325	ug/l	98
36) Chloroform	4.605	83	406240	65.8245	ug/l	99
38) Cyclohexane	4.769	56	287597	64.3580	ug/l	92
40) 1,2-Dichloroethane	4.952	62	322753	61.7876	ug/l	99
41) 2-Butanone	4.410	43	127815m	82.2700	ug/l	
42) 1,1,1-Trichloroethane	4.733	97	381832	66.9630	ug/l	98
43) Carbon Tetrachloride	4.830	117	338513	67.0889	ug/l	97
44) Vinyl Acetate	4.020	43	746497	78.7372	ug/l	100
45) Bromodichloromethane	5.568	83	322413	64.0922	ug/l	100
46) Methylcyclohexane	5.416	83	266836	67.4644	ug/l	96
47) Dibromomethane	5.495	174	211120	77.0122	ug/l	99
48) 1,2-Dichloropropane	5.428	63	224823	64.2151	ug/l	99
49) Trichloroethene	5.300	130	275133	71.5891	ug/l	99
50) Benzene	4.946	78	877281	66.8925	ug/l	100
51) tert-Amyl methyl ether	4.989	73	657194	66.5709	ug/l	98
53) Iso-propylacetate	4.946	43	508266	95.1006	ug/l	98
54) Methyl methacrylate	5.452	41	249130	104.1917	ug/l	98
55) Dibromochloromethane	6.422	129	290863	100.8874	ug/l	100
56) 2-Chloroethylvinylether	5.708	63	127705	87.1419	ug/l	96
57) cis-1,3-Dichloropropene	5.806	75	391303	100.2345	ug/l	99
58) trans-1,3-Dichloropropene	6.086	75	370713	97.3638	ug/l	98
59) Ethyl methacrylate	6.111	41	233571	93.1501	ug/l	95
60) 1,1,2-Trichloroethane	6.196	97	228021	100.8077	ug/l	100
61) 1,2-Dibromoethane	6.495	107	254316	104.0252	ug/l	100
62) 1,3-Dichloropropane	6.288	76	374268	96.7749	ug/l	99
63) 4-Methyl-2-Pentanone	5.867	43	246558	106.5511	ug/l	99
64) 2-Hexanone	6.306	43	182017	106.0352	ug/l	96
65) Tetrachloroethene	6.288	164	224614	107.6621	ug/l	99
67) Toluene	5.989	92	586325	99.2904	ug/l	97

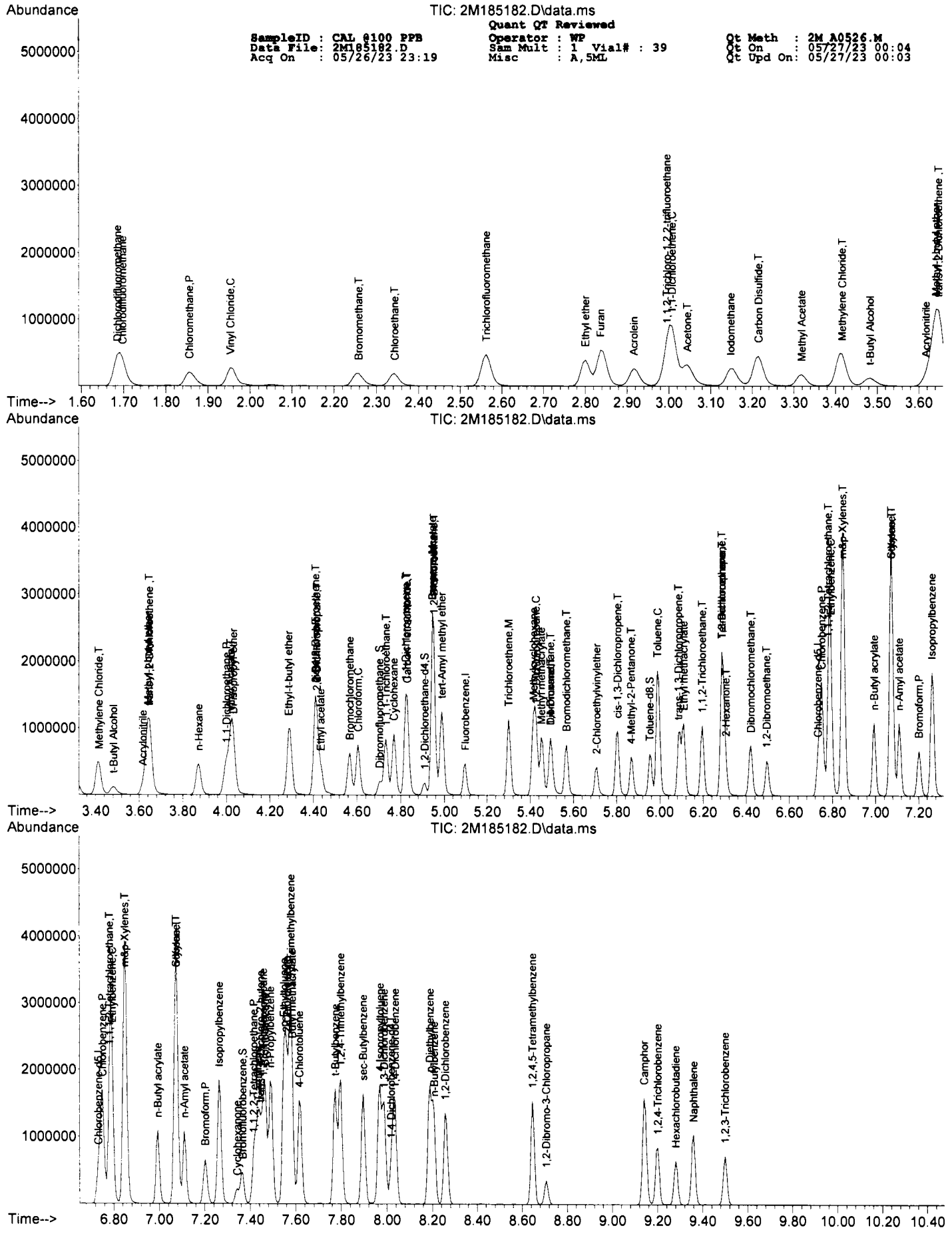
Quantitation Report (QT Reviewed)

SampleID : CAL @100 PPB Operator : WP Qt Meth : 2M_A0526.M
Data File: 2M185182.D Sam Mult : 1 Vial# : 39 Qt On : 05/27/23 00:04
Acq On : 05/26/23 23:19 **Misc : A,5ML** **Qt Upd On: 05/27/23 00:03**

Data Path : G:\GcMsData\2023\GCMS_2\Data\05-26-23\
Qt Path : G:\GcMsData\2023\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.781	133	247860	98.9482	ug/l	100
69)	Chlorobenzene	6.751	112	673150	100.2727	ug/l	99
71)	n-Butyl acrylate	6.995	55	479132	108.3476	ug/l	97
72)	n-Amyl acetate	7.111	43	375842	99.2681	ug/l	99
73)	Bromoform	7.202	173	228849	125.8083	ug/l	98
74)	Ethylbenzene	6.794	106	289456	117.7567	ug/l	95
75)	1,1,2,2-Tetrachloroethane	7.415	83	312166	126.0086	ug/l	98
77)	Styrene	7.074	104	736961	117.7998	ug/l	97
78)	m&p-Xylenes	6.848	106	859172	240.4638	ug/l	97
79)	o-Xylene	7.074	106	426068	117.1032	ug/l	97
80)	trans-1,4-Dichloro-2-b...	7.446	53	114141	117.7405	ug/l	96
81)	1,3-Dichlorobenzene	7.988	146	501362	124.7333	ug/l	99
82)	1,4-Dichlorobenzene	8.037	146	509399	124.8042	ug/l	98
83)	1,2-Dichlorobenzene	8.257	146	469976	126.3158	ug/l	99
84)	Isopropylbenzene	7.263	105	930778	115.5432	ug/l	99
85)	Cyclohexanone	7.342	55	68855	629.7572	ug/l	95
86)	Camphene	7.434	93	247315	118.3772	ug/l	99
87)	1,2,3-Trichloropropane	7.458	75	383189	126.1353	ug/l	99
88)	2-Chlorotoluene	7.562	91	615749	121.9415	ug/l	98
89)	p-Ethyltoluene	7.549	105	975332	112.7444	ug/l	99
90)	4-Chlorotoluene	7.617	91	576258	116.8840	ug/l	97
91)	n-Propylbenzene	7.489	91	1073153	117.5612	ug/l	99
92)	Bromobenzene	7.464	77	606003	116.1618	ug/l	97
93)	1,3,5-Trimethylbenzene	7.580	105	656761	113.6170	ug/l	88
94)	Butyl methacrylate	7.586	41	266130	94.1078	ug/l	100
95)	t-Butylbenzene	7.775	119	746114	120.6610	ug/l	98
96)	1,2,4-Trimethylbenzene	7.799	105	791584	117.2436	ug/l	98
97)	sec-Butylbenzene	7.897	105	853955	118.6791	ug/l	97
98)	4-Isopropyltoluene	7.970	119	757674	121.2826	ug/l	100
99)	n-Butylbenzene	8.208	91	723673	117.5991	ug/l	98
100)	p-Diethylbenzene	8.190	119	445964	127.3276	ug/l	98
101)	1,2,4,5-Tetramethylben...	8.647	119	623592	137.0352	ug/l	96
102)	1,2-Dibromo-3-Chloropr...	8.708	157	85140	157.9884	ug/l	97
103)	Camphor	9.141	95	323573	1505.9326	ug/l	98
104)	Hexachlorobutadiene	9.281	225	109531	147.5887	ug/l	95
105)	1,2,4-Trichlorobenzene	9.202	180	232861	139.8749	ug/l	99
106)	1,2,3-Trichlorobenzene	9.500	180	191106	148.5272	ug/l	97
107)	Naphthalene	9.360	128	663610	148.1571	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M185182.D\data.ms
Quant QT Reviewed
SampleID : CAL @100 PPB
Data File: 2M185182.D
Acq On : 05/26/23 23:19
Operator : WP
Sam Mult : 1 Vial# : 39
Misc : A,5ML
Qt Meth : 2M_A0526.M
Qt On : 05/27/23 00:04
Qt Upd On: 05/27/23 00:03
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @250 PPB Operator : WP Qt Meth : 2M_A0526.M
Data File: 2M185183.D Sam Mult : 1 Vial# : 40 Qt On : 05/27/23 00:04
Acq On : 05/26/23 23:39 Misc : A,5ML Qt Upd On: 05/27/23 00:03

Data Path : G:\GcMsData\2023\GCMS_2\Data\05-26-23\
Qt Path : G:\GcMsData\2023\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.099	96	295082	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.733	117	247487	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	129018	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.702	111	81140	25.93	ug/l	0.00
Spiked Amount 30.000			Recovery = 86.43%			
39) 1,2-Dichloroethane-d4	4.910	67	43057	28.61	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.37%			
66) Toluene-d8	5.952	98	299054	37.19	ug/l	0.00
Spiked Amount 30.000			Recovery = 123.97%			
76) Bromofluorobenzene	7.367	174	113477	33.24	ug/l	0.00
Spiked Amount 30.000			Recovery = 110.80%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.697	51	842448	191.2758	ug/l	91
6) Dichlorodifluoromethane	1.685	85	738169	188.5257	ug/l	99
7) Chloromethane	1.855	50	594269	153.2197	ug/l	100
8) Bromomethane	2.252	94	387513	129.6736	ug/l	99
9) Vinyl Chloride	1.953	62	696331	171.1994	ug/l	99
10) Chloroethane	2.337	64	386728	141.9585	ug/l	98
11) Trichlorofluoromethane	2.557	101	901103	144.6070	ug/l	99
12) Ethyl ether	2.800	59	553095	183.4388	ug/l	94
13) Furan	2.837	39	834626	149.7983	ug/l	97
14) 1,1,2-Trichloro-1,2,2-...	2.995	101	478846	171.0115	ug/l	96
15) Methylene Chloride	3.410	84	592662	174.8457	ug/l	97
16) Acrolein	2.916	56	580365	1000.9013	ug/l	98
17) Acrylonitrile	3.617	53	255298	188.6979	ug/l	99
18) Iodomethane	3.148	142	835380	520.4459	ug/l	94
19) Acetone	3.044	43	903014	865.3122	ug/l	96
20) Carbon Disulfide	3.209	76	1534018	210.9996	ug/l	100
21) t-Butyl Alcohol	3.483	59	377124	959.8879	ug/l	99
22) n-Hexane	3.873	57	518748	163.5156	ug/l	96
23) Di-isopropyl-ether	4.026	45	1533954	159.5561	ug/l	98
24) 1,1-Dichloroethene	3.008	61	795749	160.8366	ug/l	100
25) Methyl Acetate	3.319	43	522900	166.7830	ug/l	100
26) Methyl-t-butyl ether	3.642	73	1624025	172.6158	ug/l	98
27) 1,1-Dichloroethane	3.995	63	994391	167.0302	ug/l	98
28) trans-1,2-Dichloroethene	3.648	96	598185	175.6453	ug/l	99
29) Ethyl-t-butyl ether	4.288	59	1743053	166.9161	ug/l	97
30) cis-1,2-Dichloroethene	4.410	61	984333	164.6939	ug/l	97
31) Bromochloromethane	4.562	49	465075	152.6051	ug/l	96
32) 2,2-Dichloropropane	4.416	77	850504	169.4266	ug/l	98
33) Ethyl acetate	4.434	43	671100m	188.0637	ug/l	
34) 1,4-Dioxane	5.495	88	288055	6633.3009	ug/l	96
35) 1,1-Dichloropropene	4.824	75	772928	167.1805	ug/l	97
36) Chloroform	4.605	83	1018536	166.3637	ug/l	99
38) Cyclohexane	4.770	56	728961	164.4370	ug/l	93
40) 1,2-Dichloroethane	4.952	62	780286	150.5783	ug/l	99
41) 2-Butanone	4.410	43	325530m	211.2166	ug/l	
42) 1,1,1-Trichloroethane	4.733	97	960760	169.8456	ug/l	97
43) Carbon Tetrachloride	4.831	117	855081	170.8281	ug/l	98
44) Vinyl Acetate	4.020	43	1821966	193.7177	ug/l	100
45) Bromodichloromethane	5.568	83	827227	165.7656	ug/l	99
46) Methylcyclohexane	5.416	83	687250	175.1548	ug/l	96
47) Dibromomethane	5.495	174	540302	198.6753	ug/l	99
48) 1,2-Dichloropropane	5.428	63	579357	166.8092	ug/l	98
49) Trichloroethene	5.300	130	705229	184.9745	ug/l	100
50) Benzene	4.946	78	2183736	167.8479	ug/l	100
51) tert-Amyl methyl ether	4.989	73	1657953	169.2934	ug/l	98
53) Iso-propylacetate	4.946	43	1237345	224.9388	ug/l	100
54) Methyl methacrylate	5.452	41	628220	255.2703	ug/l	96
55) Dibromochloromethane	6.422	129	760533	256.2996	ug/l	100
56) 2-Chloroethylvinylether	5.708	63	322987	214.1340	ug/l	96
57) cis-1,3-Dichloropropene	5.806	75	1005781	250.3161	ug/l	100
58) trans-1,3-Dichloropropene	6.086	75	961443	245.3379	ug/l	98
59) Ethyl methacrylate	6.111	41	575518	222.9999	ug/l	99
60) 1,1,2-Trichloroethane	6.196	97	586364	251.8649	ug/l	99
61) 1,2-Dibromoethane	6.495	107	661280	262.8038	ug/l	100
62) 1,3-Dichloropropane	6.288	76	951667	239.0818	ug/l	99
63) 4-Methyl-2-Pentanone	5.867	43	630697	264.8140	ug/l	98
64) 2-Hexanone	6.306	43	456057	258.1300	ug/l	93
65) Tetrachloroethene	6.288	164	566004	263.5887	ug/l	99
67) Toluene	5.989	92	1492211	245.5165	ug/l	95

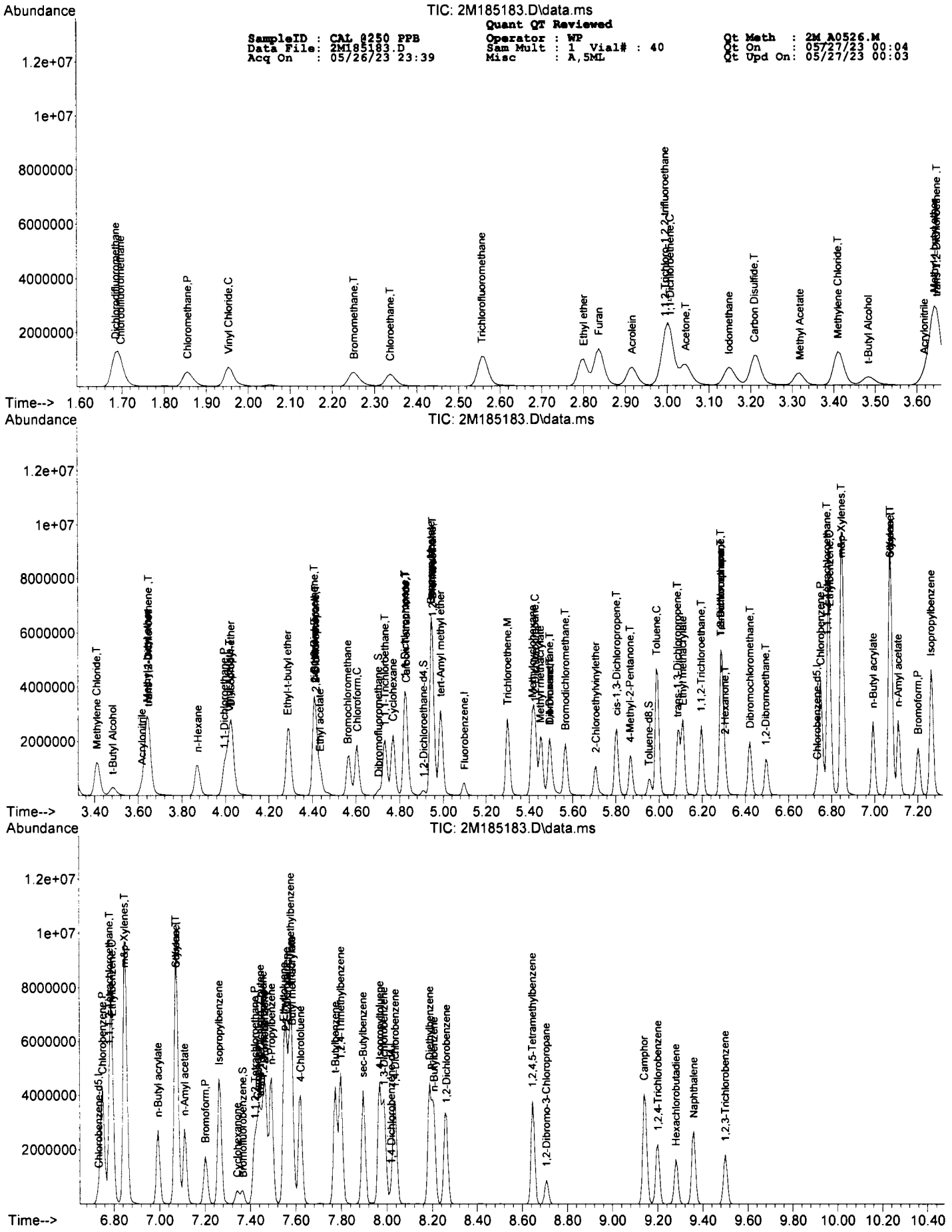
Quantitation Report (QT Reviewed)

SampleID : CAL @250 PPB Operator : WP Qt Meth : 2M_A0526.M
Data File: 2M185183.D Sam Mult : 1 Vial# : 40 Qt On : 05/27/23 00:04
Acq On : 05/26/23 23:39 Misc : A,5ML Qt Upd On: 05/27/23 00:03

Data Path : G:\GcMsData\2023\GCMS_2\Data\05-26-23\
Qt Path : G:\GcMsData\2023\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.781	133	640816	248.5513	ug/l	100
69)	Chlorobenzene	6.751	112	1743501	252.3333	ug/l	98
71)	n-Butyl acrylate	6.995	55	1192983	268.6355	ug/l	98
72)	n-Amyl acetate	7.111	43	965854	254.0274	ug/l	99
73)	Bromoform	7.202	173	607834	332.7439	ug/l	99
74)	Ethylbenzene	6.794	106	752968	305.0313	ug/l	92
75)	1,1,2,2-Tetrachloroethane	7.422	83	786694	316.2172	ug/l	98
77)	Styrene	7.074	104	1848899	294.2918	ug/l	95
78)	m&p-Xylenes	6.848	106	2167559	604.0954	ug/l	99
79)	o-Xylene	7.074	106	1070341	292.9387	ug/l	97
80)	trans-1,4-Dichloro-2-b...	7.446	53	285869	293.6406	ug/l	90
81)	1,3-Dichlorobenzene	7.988	146	1265060	313.4058	ug/l	99
82)	1,4-Dichlorobenzene	8.037	146	1284850	313.4645	ug/l	99
83)	1,2-Dichlorobenzene	8.263	146	1180989	316.0769	ug/l	99
84)	Isopropylbenzene	7.263	105	2365764	292.4385	ug/l	99
85)	Cyclohexanone	7.342	55	154243	1404.7791	ug/l	94
86)	Camphene	7.434	93	629976	300.2662	ug/l	97
87)	1,2,3-Trichloropropane	7.458	75	985398	322.9984	ug/l	98
88)	2-Chlorotoluene	7.562	91	1525010	300.7360	ug/l	98
89)	p-Ethyltoluene	7.550	105	2667655	307.0698	ug/l	98
90)	4-Chlorotoluene	7.623	91	1484325	299.8002	ug/l	98
91)	n-Propylbenzene	7.495	91	2693600	293.8330	ug/l	97
92)	Bromobenzene	7.464	77	1542836	294.4918	ug/l	96
93)	1,3,5-Trimethylbenzene	7.580	105	1695361	292.0539	ug/l	98
94)	Butyl methacrylate	7.586	41	609693	214.6880	ug/l	94
95)	t-Butylbenzene	7.775	119	1886798	303.8450	ug/l	98
96)	1,2,4-Trimethylbenzene	7.799	105	1987449	293.1252	ug/l	98
97)	sec-Butylbenzene	7.897	105	2140039	296.1596	ug/l	96
98)	4-Isopropyltoluene	7.970	119	1899214	302.7297	ug/l	100
99)	n-Butylbenzene	8.208	91	1790941	289.8063	ug/l	97
100)	p-Diethylbenzene	8.190	119	1124496	319.7021	ug/l	98
101)	1,2,4,5-Tetramethylben...	8.647	119	1561290	341.6489	ug/l	98
102)	1,2-Dibromo-3-Chloropr...	8.708	157	219269	405.1666	ug/l	100
103)	Camphor	9.141	95	830446	3848.6603	ug/l	98
104)	Hexachlorobutadiene	9.281	225	270093	362.4052	ug/l	96
105)	1,2,4-Trichlorobenzene	9.202	180	587877	351.6369	ug/l	99
106)	1,2,3-Trichlorobenzene	9.500	180	482064	373.0794	ug/l	97
107)	Naphthalene	9.360	128	1700102	377.9631	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M185183.D\data.ms
Quant QT Reviewed
SampleID : CAL @250 PPB
Data File: 2M185183.D
Acq On : 05/26/23 23:39
Operator : WP
Sam Mult : 1 Vial# : 40
Misc : A,5ML
Qt Meth : 2M A0526.M
Qt On : 05/27/23 00:04
Qt Upd On: 05/27/23 00:03
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @500 PPB Operator : WP Qt Meth : 2M_A0526.M
Data File: 2M185184.D Sam Mult : 1 Vial# : 41 Qt On : 05/27/23 00:12
Acq On : 05/26/23 23:59 Misc : A,5ML Qt Upd On: 05/27/23 00:03

Data Path : G:\GcMsData\2023\GCMS_2\Data\05-26-23\
Qt Path : G:\GcMsData\2023\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.099	96	282062	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.733	117	236574	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.025	152	127833	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.702	111	77337	25.86	ug/l	0.00
Spiked Amount 30.000			Recovery = 86.20%			
39) 1,2-Dichloroethane-d4	4.910	67	41311	28.72	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.73%			
66) Toluene-d8	5.958	98	286512	37.27	ug/l	0.00
Spiked Amount 30.000			Recovery = 124.23%			
76) Bromofluorobenzene	7.367	174	109270	32.30	ug/l	0.00
Spiked Amount 30.000			Recovery = 107.67%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.691	51	1596794	379.2835	ug/l	91
6) Dichlorodifluoromethane	1.679	85	1399263	373.8628	ug/l	97
7) Chloromethane	1.855	50	1186672	320.0813	ug/l	99
8) Bromomethane	2.246	94	763116	267.1493	ug/l	100
9) Vinyl Chloride	1.953	62	1314843	338.1882	ug/l	98
10) Chloroethane	2.331	64	712576	273.6435	ug/l	97
11) Trichlorofluoromethane	2.557	101	1718136	288.4500	ug/l	98
12) Ethyl ether	2.794	59	1030341	357.4956	ug/l	94
13) Furan	2.831	39	1487024	279.2100	ug/l	92
14) 1,1,2-Trichloro-1,2,2-...	2.995	101	875021	326.9235	ug/l	96
15) Methylene Chloride	3.410	84	1101006	339.8097	ug/l	99
16) Acrolein	2.916	56	1085671	1958.7835	ug/l	98
17) Acrylonitrile	3.617	53	471127	364.2971	ug/l	97
18) Iodomethane	3.148	142	1404188	915.1977	ug/l	93
19) Acetone	3.044	43	1623605	1627.6344	ug/l	94
20) Carbon Disulfide	3.209	76	2867931	412.6843	ug/l	100
21) t-Butyl Alcohol	3.489	59	706135	1880.2787	ug/l	97
22) n-Hexane	3.867	57	951495	313.7670	ug/l	94
23) Di-isopropyl-ether	4.026	45	2689639	292.6801	ug/l	99
24) 1,1-Dichloroethene	3.002	61	1436140	303.6712	ug/l	99
25) Methyl Acetate	3.312	43	857896	286.2634	ug/l	100
26) Methyl-t-butyl ether	3.642	73	2975617	330.8743	ug/l	97
27) 1,1-Dichloroethane	3.995	63	1815353	319.0047	ug/l	99
28) trans-1,2-Dichloroethene	3.648	96	1107563	340.2261	ug/l	98
29) Ethyl-t-butyl ether	4.288	59	3146011	315.1708	ug/l	98
30) cis-1,2-Dichloroethene	4.410	61	1782702	312.0416	ug/l	97
31) Bromochloromethane	4.562	49	800792	274.8931	ug/l	99
32) 2,2-Dichloropropane	4.416	77	1546749	322.3467	ug/l	98
33) Ethyl acetate	4.434	43	1236155m	362.4005	ug/l	
34) 1,4-Dioxane	5.495	88	578025	13925.1229	ug/l	96
35) 1,1-Dichloropropene	4.824	75	1418857	321.0578	ug/l	96
36) Chloroform	4.605	83	1867610	319.1292	ug/l	98
38) Cyclohexane	4.770	56	1337275	315.5833	ug/l	94
40) 1,2-Dichloroethane	4.952	62	1402162	283.0771	ug/l	98
41) 2-Butanone	4.410	43	579144m	393.1168	ug/l	
42) 1,1,1-Trichloroethane	4.733	97	1778338	328.8909	ug/l	97
43) Carbon Tetrachloride	4.830	117	1579630	330.1457	ug/l	98
44) Vinyl Acetate	4.020	43	3375810	375.4959	ug/l	100
45) Bromodichloromethane	5.568	83	1525538	319.8091	ug/l	100
46) Methylcyclohexane	5.416	83	1275221	340.0094	ug/l	97
47) Dibromomethane	5.495	174	999017	384.3071	ug/l	99
48) 1,2-Dichloropropane	5.428	63	1063591	320.3661	ug/l	99
49) Trichloroethene	5.300	130	1327787	364.3411	ug/l	100
50) Benzene	4.946	78	3963757	318.7286	ug/l	100
51) tert-Amyl methyl ether	4.989	73	3021968	322.8166	ug/l	97
53) Iso-propylacetate	4.946	43	2204119	419.1737	ug/l	98
54) Methyl methacrylate	5.452	41	1080650	459.3662	ug/l	93
55) Dibromochloromethane	6.422	129	1422816	501.6074	ug/l	99
56) 2-Chloroethylvinylether	5.708	63	593519	411.6429	ug/l	96
57) cis-1,3-Dichloropropene	5.806	75	1868795	486.5555	ug/l	99
58) trans-1,3-Dichloropropene	6.092	75	1780091	475.1915	ug/l	97
59) Ethyl methacrylate	6.111	41	1065630	431.9541	ug/l	96
60) 1,1,2-Trichloroethane	6.196	97	1092270	490.8127	ug/l	99
61) 1,2-Dibromoethane	6.495	107	1228078	510.5726	ug/l	100
62) 1,3-Dichloropropane	6.288	76	1750353	460.0155	ug/l	100
63) 4-Methyl-2-Pentanone	5.867	43	1149071	504.7222	ug/l	96
64) 2-Hexanone	6.306	43	817066	483.7956	ug/l	93
65) Tetrachloroethene	6.288	164	1046858	510.0120	ug/l	99
67) Toluene	5.989	92	2755091	474.2111	ug/l	93

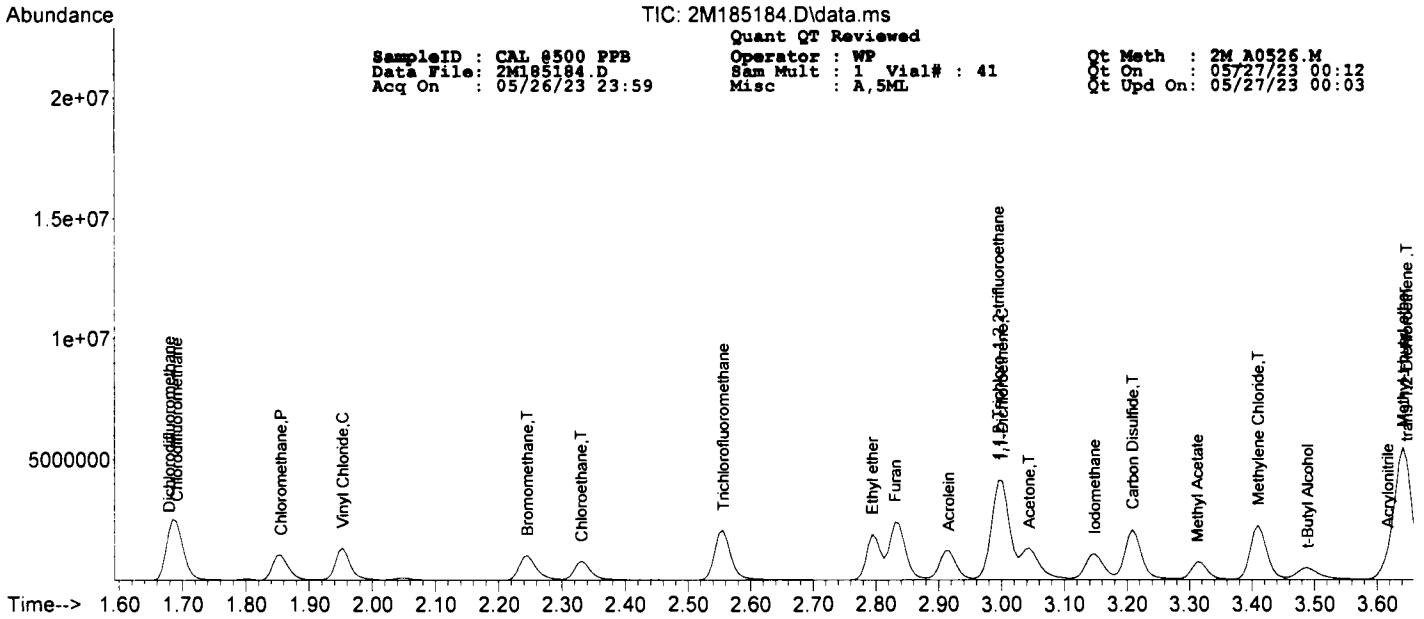
Quantitation Report (QT Reviewed)

SampleID : CAL @500 PPB Operator : WP Qt Meth : 2M_A0526.M
Data File: 2M185184.D Sam Mult : 1 Vial# : 41 Qt On : 05/27/23 00:12
Acq On : 05/26/23 23:59 Misc : A,5ML Qt Upd On: 05/27/23 00:03

Data Path : G:\GcMsData\2023\GCMS_2\Data\05-26-23\
Qt Path : G:\GcMsData\2023\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.787	133	1173407	476.1204	ug/l	99
69)	Chlorobenzene	6.751	112	3204275	485.1404	ug/l	97
71)	n-Butyl acrylate	6.995	55	2372983	539.3009	ug/l	98
72)	n-Amyl acetate	7.111	43	1880187	499.0885	ug/l	97
73)	Bromoform	7.202	173	1149355	635.0188	ug/l	100
74)	Ethylbenzene	6.794	106	1428605	584.1003	ug/l	87
75)	1,1,2,2-Tetrachloroethane	7.421	83	1486864	603.1957	ug/l	97
77)	Styrene	7.080	104	3310539	531.8278	ug/l	100
78)	m&p-Xylenes	6.855	106	3858682	1085.3778	ug/l	91
79)	o-Xylene	7.074	106	1936575	534.9292	ug/l	95
80)	trans-1,4-Dichloro-2-b...	7.446	53	528653	548.0587	ug/l	84
81)	1,3-Dichlorobenzene	7.988	146	2398784	599.7833	ug/l	99
82)	1,4-Dichlorobenzene	8.037	146	2468909	607.9226	ug/l	99
83)	1,2-Dichlorobenzene	8.263	146	2307299	623.2441	ug/l	99
84)	Isopropylbenzene	7.263	105	4288662	535.0474	ug/l	98
85)	Cyclohexanone	7.342	55	251570	2312.4308	ug/l	94
86)	Camphene	7.440	93	1168170	561.9476	ug/l	98
87)	1,2,3-Trichloropropane	7.458	75	1853061	613.0356	ug/l	98
88)	2-Chlorotoluene	7.562	91	2632326	523.9136	ug/l	99
89)	p-Ethyltoluene	7.556	105	4660562	541.4433	ug/l	97
90)	4-Chlorotoluene	7.623	91	2827883	576.4632	ug/l	98
91)	n-Propylbenzene	7.495	91	4845123	533.4326	ug/l	96
92)	Bromobenzene	7.470	77	2835018	546.1559	ug/l	96
93)	1,3,5-Trimethylbenzene	7.580	105	3240629	563.4267	ug/l	98
94)	Butyl methacrylate	7.586	41	1171635	416.3861	ug/l	86
95)	t-Butylbenzene	7.775	119	3542572	575.7749	ug/l	99
96)	1,2,4-Trimethylbenzene	7.799	105	3719908	553.7283	ug/l	97
97)	sec-Butylbenzene	7.897	105	3980029	555.9012	ug/l	95
98)	4-Isopropyltoluene	7.970	119	3596704	578.6197	ug/l	99
99)	n-Butylbenzene	8.208	91	3410578	557.0085	ug/l	96
100)	p-Diethylbenzene	8.190	119	2169761	622.5966	ug/l	98
101)	1,2,4,5-Tetramethylben...	8.647	119	2966893	655.2478	ug/l	98
102)	1,2-Dibromo-3-Chloropr...	8.708	157	427513	797.2840	ug/l	100
103)	Camphor	9.141	95	1617788	7567.0590	ug/l	98
104)	Hexachlorobutadiene	9.281	225	503263	681.5275	ug/l	95
105)	1,2,4-Trichlorobenzene	9.202	180	1115771	673.5819	ug/l	99
106)	1,2,3-Trichlorobenzene	9.500	180	939863	734.1224	ug/l	97
107)	Naphthalene	9.360	128	3294180	739.1440	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed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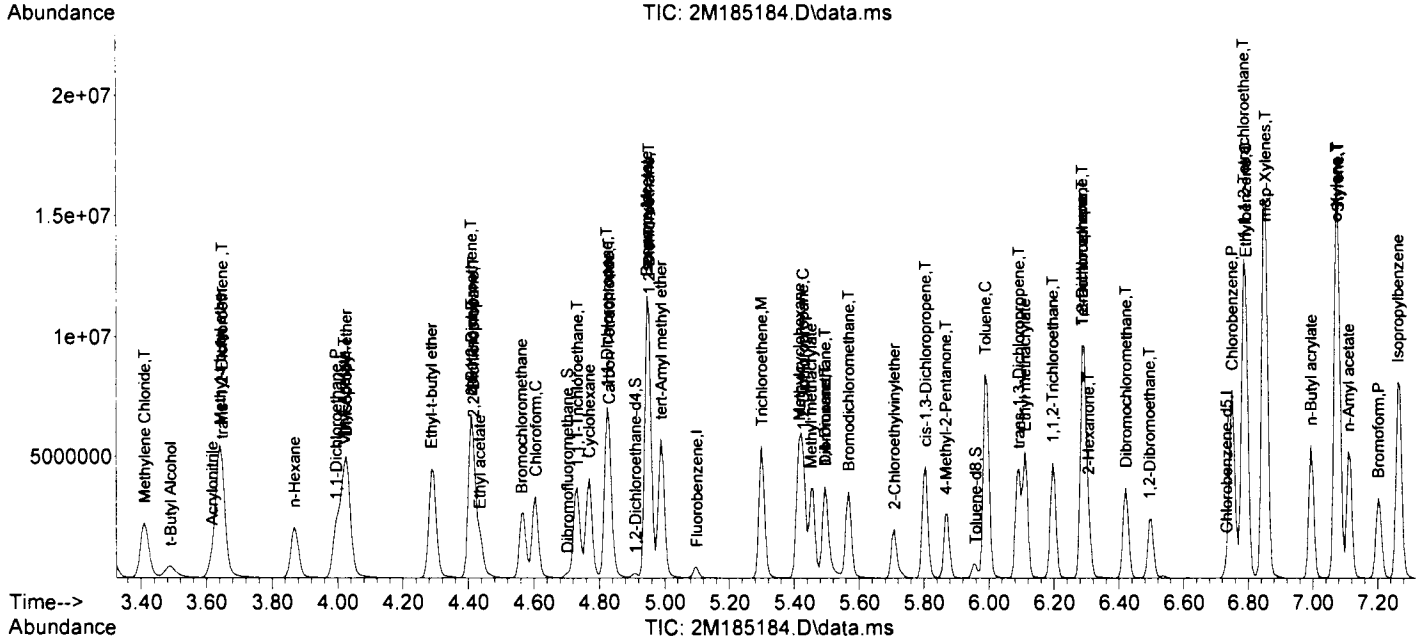
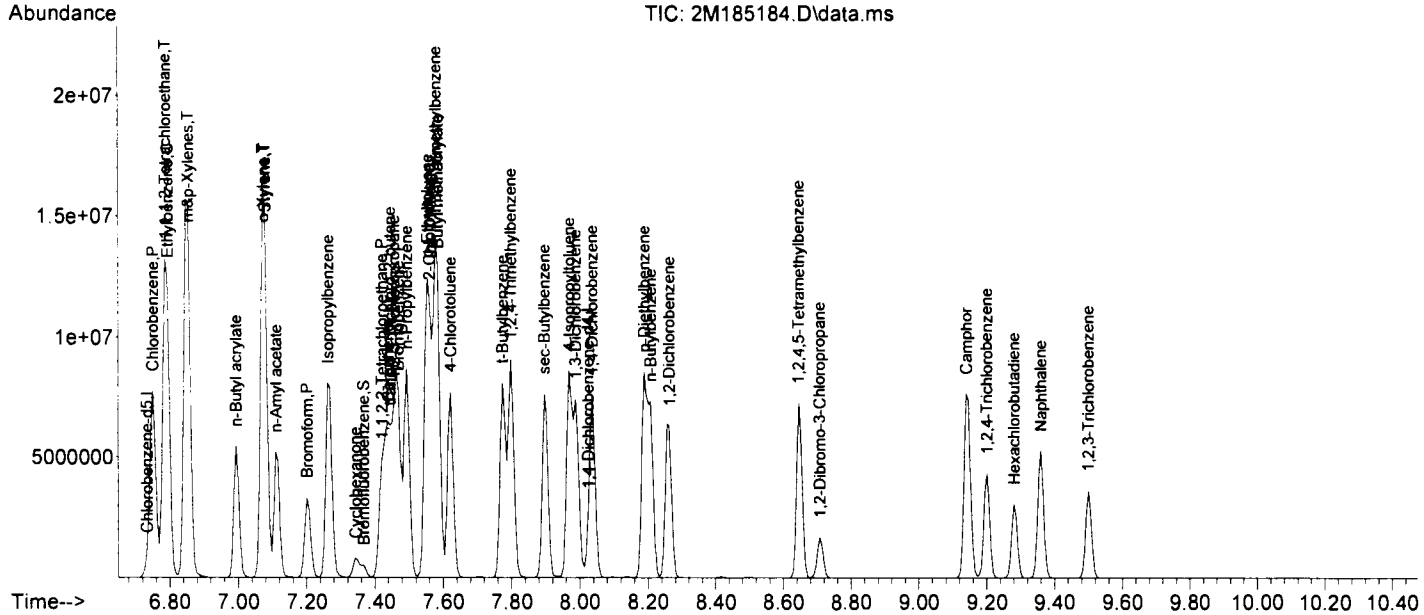
Quant QT Reviewed
SampleID : CAL @500 PPB
Data File: 2M185184.D
Acq On : 05/26/23 23:59
Operator : WP
Sam Mult : 1 Vial# : 41
Misc : A,5ML
Qt Meth : 2M_A0526.M
Qt On : 05/27/23 00:12
Qt Upd On: 05/27/23 00:03
2e+07
1.5e+07
1e+07
5000000
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
Time--> 1.60 1.70 1.80 1.90 2.00 2.10 2.20 2.30 2.40 2.50 2.60 2.70 2.80 2.90 3.00 3.10 3.20 3.30 3.40 3.50 3.60


Abundance
TIC: 2M185184.D\data.ms
2e+07
1.5e+07
1e+07
5000000
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene,C
Toluene-d8,S
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,P
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Time--> 3.40 3.60 3.80 4.00 4.20 4.40 4.60 4.80 5.00 5.20 5.40 5.60 5.80 6.00 6.20 6.40 6.60 6.80 7.00 7.20


Abundance
TIC: 2M185184.D\data.ms
2e+07
1.5e+07
1e+07
5000000
Chlorobenzene-d5,I
Chlorobenzene,P
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
4-Chlorotoluene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time--> 6.80 7.00 7.20 7.40 7.60 7.80 8.00 8.20 8.40 8.60 8.80 9.00 9.20 9.40 9.60 9.80 10.00 10.20 10.40

Quantitation Report (QT Reviewed)

SampleID : CAL @1 PPB Operator : WP Qt Meth : 2M_A0526.M
Data File: 2M185177.D Sam Mult : 1 Vial# : 34 Qt On : 05/27/23 00:09
Acq On : 05/26/23 21:39 Misc : A,5ML Qt Upd On: 05/27/23 00:03

Data Path : G:\GcMsData\2023\GCMS_2\Data\05-26-23\
Qt Path : G:\GcMsData\2023\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.099	96	304454	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.733	117	245072	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	129170	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.703	111	83453	25.85	ug/l	0.00
Spiked Amount 30.000			Recovery = 86.17%			
39) 1,2-Dichloroethane-d4	4.910	67	45130	29.06	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.87%			
66) Toluene-d8	5.952	98	302608	38.00	ug/l	0.00
Spiked Amount 30.000			Recovery = 126.67%			
76) Bromofluorobenzene	7.367	174	113024	33.07	ug/l	0.00
Spiked Amount 30.000			Recovery = 110.23%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.703	51	2526m	0.5559	ug/l	
6) Dichlorodifluoromethane	1.685	85	2531	0.6265	ug/l	96
7) Chloromethane	1.856	50	2522	0.6302	ug/l	97
8) Bromomethane	2.258	94	1909	0.6191	ug/l	97
9) Vinyl Chloride	1.959	62	2395	0.5707	ug/l	93
10) Chloroethane	2.343	64	1740	0.6191	ug/l	99
11) Trichlorofluoromethane	2.569	101	3469	0.5396	ug/l	94
12) Ethyl ether	2.800	59	1963	0.6310	ug/l	98
13) Furan	2.843	39	3149	0.5478	ug/l	96
14) 1,1,2-Trichloro-1,2,2-...	3.002	101	1681	0.5819	ug/l	93
15) Methylene Chloride	3.416	84	2287	0.6539	ug/l	91
16) Acrolein	2.922	56	1508	2.5206	ug/l	86
17) Acrylonitrile	3.630	53	1009	0.7228	ug/l	91
18) Iodomethane	3.148	142	3013	1.8193	ug/l	86
19) Acetone	3.057	43	4126	3.8320	ug/l	98
20) Carbon Disulfide	3.215	76	5976	0.7967	ug/l	100
21) t-Butyl Alcohol	3.489	59	1630	4.0211	ug/l	77
22) n-Hexane	3.873	57	1921	0.5869	ug/l	97
23) Di-isopropyl-ether	4.032	45	5687	0.5733	ug/l	95
24) 1,1-Dichloroethene	3.008	61	2858	0.5599	ug/l	90
25) Methyl Acetate	3.325	43	1930m	0.5966	ug/l	
26) Methyl-t-butyl ether	3.648	73	5904	0.6082	ug/l	95
27) 1,1-Dichloroethane	4.001	63	3748	0.6102	ug/l	93
28) trans-1,2-Dichloroethene	3.654	96	2245	0.6389	ug/l	88
29) Ethyl-t-butyl ether	4.294	59	6540	0.6070	ug/l	97
30) cis-1,2-Dichloroethene	4.410	61	3710	0.6016	ug/l	97
31) Bromochloromethane	4.562	49	1838	0.5845	ug/l	81
32) 2,2-Dichloropropane	4.416	77	3287	0.6346	ug/l	92
33) Ethyl acetate	4.440	43	3167m	0.8602	ug/l	
34) 1,4-Dioxane	5.495	88	1199m	26.7605	ug/l	
35) 1,1-Dichloropropene	4.824	75	2752	0.5769	ug/l	95
36) Chloroform	4.605	83	3883	0.6147	ug/l	99
38) Cyclohexane	4.770	56	2625	0.5739	ug/l	86
40) 1,2-Dichloroethane	4.953	62	3600	0.6733	ug/l	94
41) 2-Butanone	4.428	43	1144m	0.7194	ug/l	
42) 1,1,1-Trichloroethane	4.733	97	3526	0.6041	ug/l	93
43) Carbon Tetrachloride	4.831	117	3077	0.5958	ug/l	86
44) Vinyl Acetate	4.026	43	7332	0.7556	ug/l	100
45) Bromodichloromethane	5.568	83	2880	0.5593	ug/l	96
46) Methylcyclohexane	5.416	83	2293	0.5664	ug/l	88
47) Dibromomethane	5.501	174	2064	0.7356	ug/l	91
48) 1,2-Dichloropropane	5.428	63	2127	0.5936	ug/l	93
49) Trichloroethene	5.300	130	2587	0.6577	ug/l	96
50) Benzene	4.953	78	8609	0.6413	ug/l	100
51) tert-Amyl methyl ether	4.989	73	6099	0.6036	ug/l	96
53) Iso-propylacetate	4.953	43	4901	0.8997	ug/l	96
54) Methyl methacrylate	5.459	41	2211	0.9073	ug/l	97
55) Dibromochloromethane	6.422	129	2493	0.8484	ug/l	95
56) 2-Chloroethylvinylether	5.708	63	971	0.6501	ug/l	95
57) cis-1,3-Dichloropropene	5.806	75	3394	0.8530	ug/l	99
58) trans-1,3-Dichloropropene	6.093	75	3114	0.8025	ug/l	95
59) Ethyl methacrylate	6.111	41	2209	0.8644	ug/l	89
60) 1,1,2-Trichloroethane	6.196	97	2447	1.0614	ug/l	87
61) 1,2-Dibromoethane	6.495	107	2285	0.9170	ug/l	89
62) 1,3-Dichloropropane	6.288	76	3463	0.8786	ug/l	93
63) 4-Methyl-2-Pentanone	5.867	43	2421	1.0265	ug/l	88
64) 2-Hexanone	6.312	43	1798	1.0277	ug/l	91
65) Tetrachloroethene	6.288	164	2130	1.0017	ug/l	86
67) Toluene	5.995	92	5698	0.9467	ug/l	98

Quantitation Report (QT Reviewed)

SampleID : CAL @1 PPB
Data File: 2M185177.D
Acq On : 05/26/23 21:39

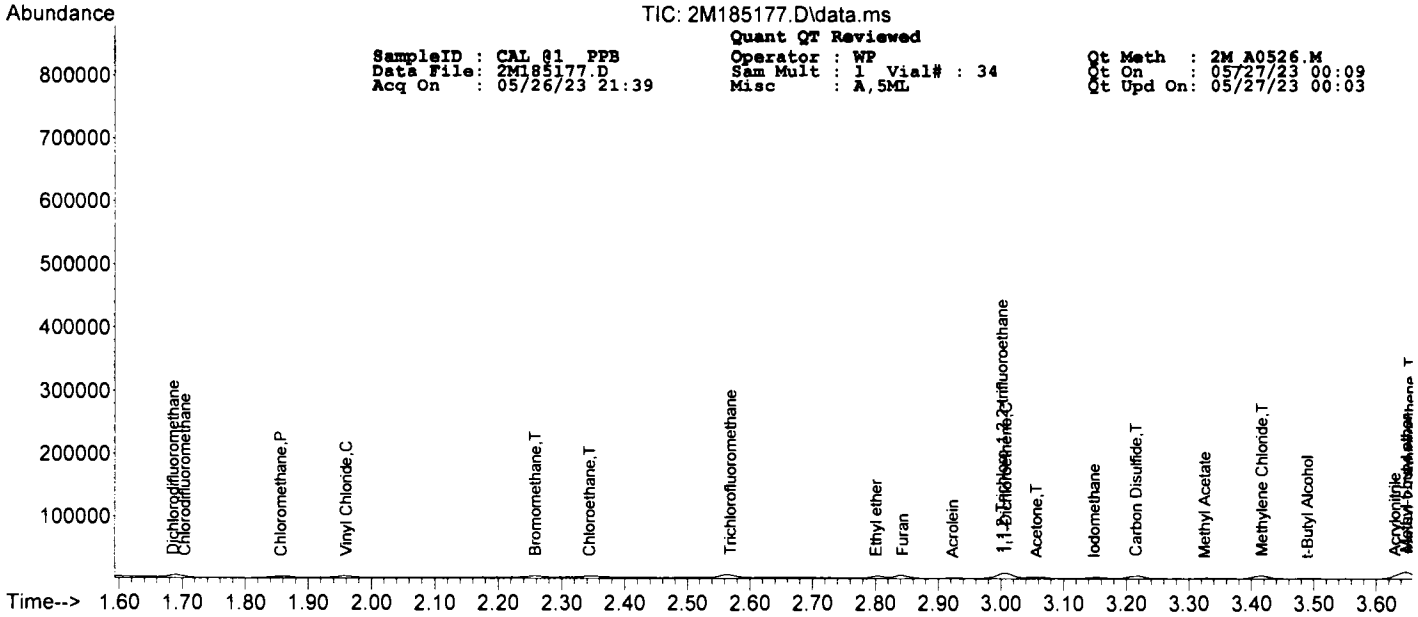
Operator : WP
Sam Mult : 1 Vial# : 34
Misc : A,5ML

Qt Meth : 2M_A0526.M
Qt On : 05/27/23 00:09
Qt Upd On: 05/27/23 00:03

Data Path : G:\GcMsData\2023\GCMS_2\Data\05-26-23\
Qt Path : G:\GcMsData\2023\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.788	133	2238	0.8766	ug/l	91
69)	Chlorobenzene	6.751	112	6495	0.9493	ug/l	97
71)	n-Butyl acrylate	6.995	55	4589	1.0321	ug/l	96
72)	n-Amyl acetate	7.111	43	4041	1.0616	ug/l	93
73)	Bromoform	7.202	173	2153	1.1772	ug/l	92
74)	Ethylbenzene	6.794	106	2693	1.0897	ug/l	93
75)	1,1,2,2-Tetrachloroethane	7.415	83	3058	1.2277	ug/l	99
77)	Styrene	7.080	104	6541	1.0399	ug/l	94
78)	m&p-Xylenes	6.849	106	8071	2.2467	ug/l	100
79)	o-Xylene	7.074	106	3997	1.0926	ug/l	94
80)	trans-1,4-Dichloro-2-b...	7.446	53	1015	1.0414	ug/l	93
81)	1,3-Dichlorobenzene	7.989	146	5023m	1.2429	ug/l	
82)	1,4-Dichlorobenzene	8.037	146	5164	1.2584	ug/l	83
83)	1,2-Dichlorobenzene	8.263	146	4612	1.2329	ug/l	96
84)	Isopropylbenzene	7.263	105	8749	1.0802	ug/l	100
85)	Cyclohexanone	7.342	55	983m	8.9422	ug/l	
86)	Camphene	7.434	93	2319	1.1040	ug/l	98
87)	1,2,3-Trichloropropane	7.458	75	3747	1.2268	ug/l	97
88)	2-Chlorotoluene	7.562	91	5613	1.1056	ug/l	97
89)	p-Ethyltoluene	7.550	105	10192	1.1718	ug/l	93
90)	4-Chlorotoluene	7.623	91	5153	1.0396	ug/l	99
91)	n-Propylbenzene	7.489	91	10340	1.1266	ug/l	99
92)	Bromobenzene	7.464	77	5953	1.1350	ug/l	98
93)	1,3,5-Trimethylbenzene	7.580	105	6785	1.1675	ug/l	91
94)	Butyl methacrylate	7.586	41	2680	0.9426	ug/l	93
95)	t-Butylbenzene	7.775	119	7210	1.1597	ug/l	99
96)	1,2,4-Trimethylbenzene	7.800	105	7501	1.1050	ug/l	95
97)	sec-Butylbenzene	7.897	105	8141	1.1253	ug/l	97
98)	4-Isopropyltoluene	7.970	119	7596	1.2094	ug/l	89
99)	n-Butylbenzene	8.208	91	7053	1.1400	ug/l	99
100)	p-Diethylbenzene	8.190	119	4153	1.1793	ug/l	97
101)	1,2,4,5-Tetramethylben...	8.647	119	5648	1.2345	ug/l	96
102)	1,2-Dibromo-3-Chloropr...	8.708	157	722	1.3325	ug/l	77
103)	Camphor	9.147	95	3288	15.2201	ug/l	99
104)	Hexachlorobutadiene	9.281	225	1208	1.6190	ug/l	98
105)	1,2,4-Trichlorobenzene	9.202	180	2222	1.3275	ug/l	96
106)	1,2,3-Trichlorobenzene	9.500	180	2036	1.5738	ug/l	97
107)	Naphthalene	9.360	128	6664	1.4798	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed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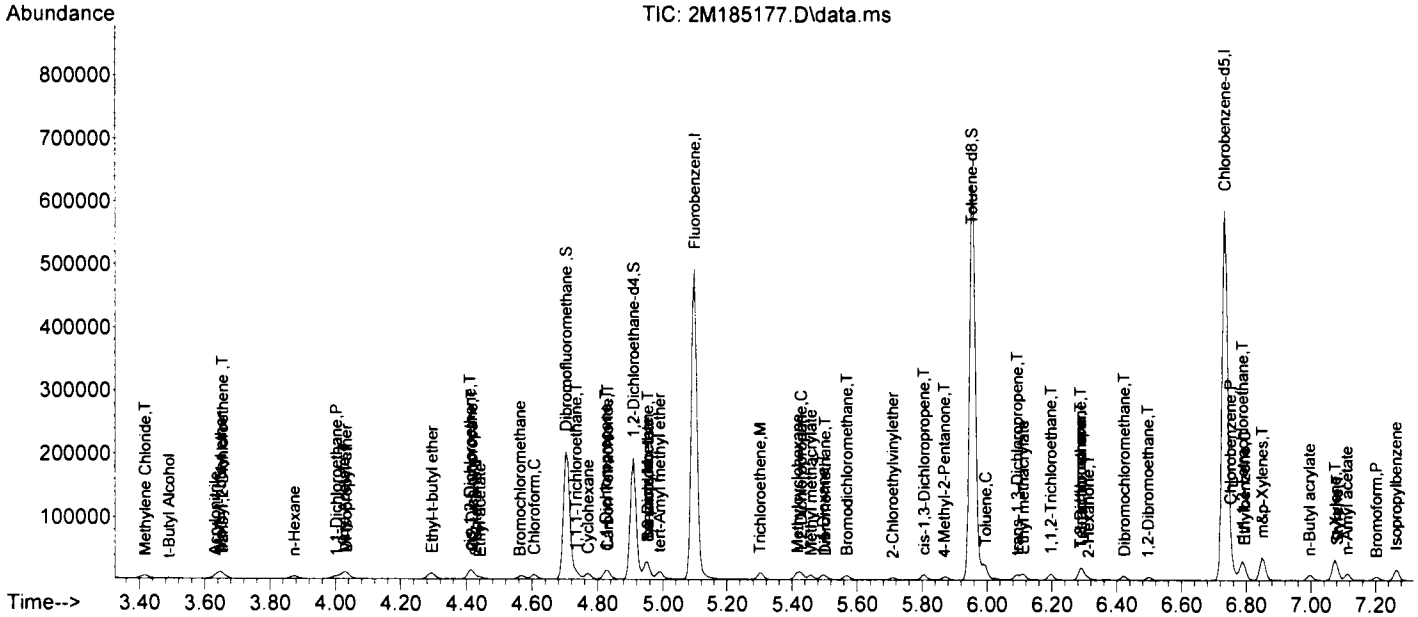
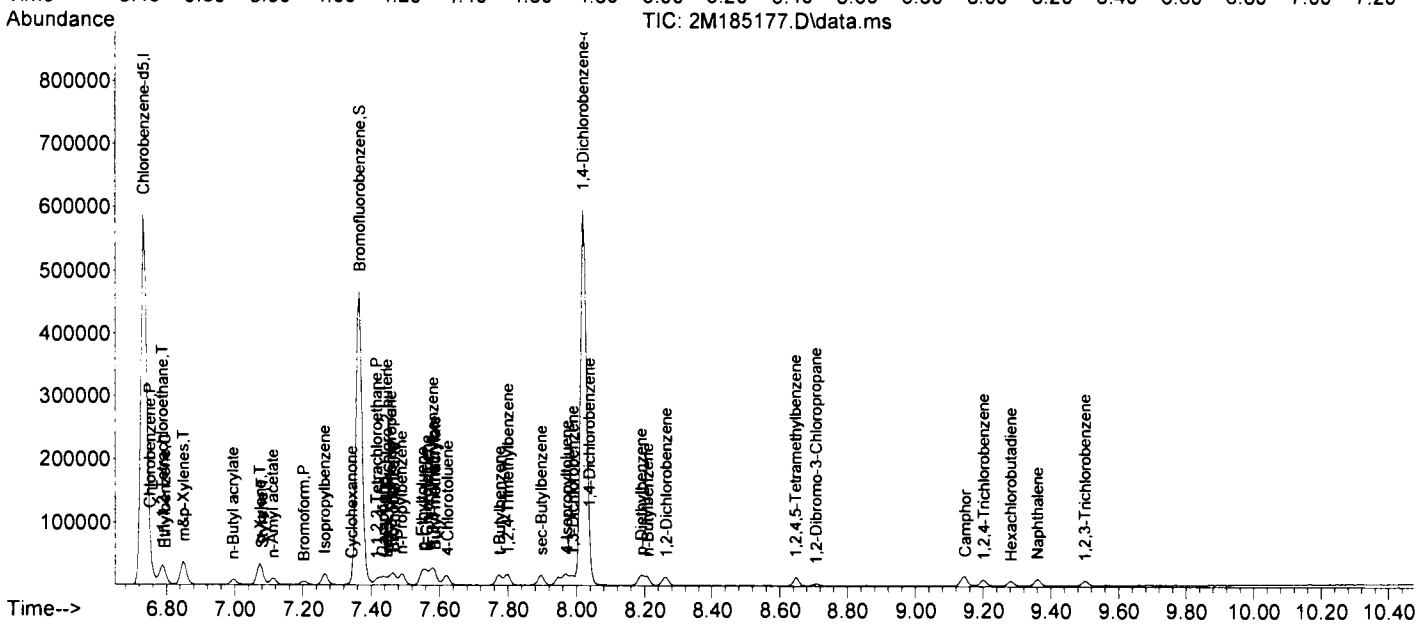
Quant QT Reviewed
SampleID : CAL @1 PPB
Data File: 2M185177.D
Acq On : 05/26/23 21:39
Operator : WP
Sam Mult : 1 Vial# : 34
Misc : A,5ML
Qt Meth : 2M_A0526.M
Qt On : 05/27/23 00:09
Qt Upd On: 05/27/23 00:03
Dichlorodifluoromethane
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Time-->


Abundance
TIC: 2M185177.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,P
m&p-Xylenes,T
n-Butyl acrylate
Bromoform,P
Isopropylbenzene
Time-->


Abundance
TIC: 2M185177.D\data.ms
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d
Chlorobenzene,P
m&p-Xylenes,T
n-Butyl acrylate
Bromoform,P
Isopropylbenzene
Cyclohexanone
4-Chlorotoluene
sec-Butylbenzene
1,4-Dichlorobenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 0.5 PPB Operator : WP Qt Meth : 2M_A0526.M
Data File: 2M185176.D Sam Mult : 1 Vial# : 33 Qt On : 05/27/23 00:11
Acq On : 05/26/23 21:19 Misc : A,5ML Qt Upd On: 05/27/23 00:03

Data Path : G:\GcMsData\2023\GCMS_2\Data\05-26-23\
Qt Path : G:\GcMsData\2023\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.099	96	305391	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.733	117	246968	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	125908	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.702	111	83911	25.91	ug/l	0.00
Spiked Amount 30.000			Recovery = 86.37%			
39) 1,2-Dichloroethane-d4	4.910	67	45630	29.30	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.67%			
66) Toluene-d8	5.952	98	300308	37.42	ug/l	0.00
Spiked Amount 30.000			Recovery = 124.73%			
76) Bromofluorobenzene	7.367	174	111082	33.34	ug/l	0.00
Spiked Amount 30.000			Recovery = 111.13%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	0.000		0	N.D.	d	
6) Dichlorodifluoromethane	0.000		0	N.D.	d	
7) Chloromethane	0.000		0	N.D.	d	
8) Bromomethane	0.000		0	N.D.	d	
9) Vinyl Chloride	0.000		0	N.D.	d	
10) Chloroethane	0.000		0	N.D.	d	
11) Trichlorofluoromethane	0.000		0	N.D.	d	
12) Ethyl ether	0.000		0	N.D.	d	
13) Furan	0.000		0	N.D.	d	
14) 1,1,2-Trichloro-1,2,2-...	0.000		0	N.D.	d	
15) Methylene Chloride	0.000		0	N.D.	d	
16) Acrolein	0.000		0	N.D.	d	
17) Acrylonitrile	0.000		0	N.D.	d	
18) Iodomethane	0.000		0	N.D.	d	
19) Acetone	0.000		0	N.D.	d	
20) Carbon Disulfide	0.000		0	N.D.	d	
21) t-Butyl Alcohol	0.000		0	N.D.	d	
22) n-Hexane	0.000		0	N.D.	d	
23) Di-isopropyl-ether	0.000		0	N.D.	d	
24) 1,1-Dichloroethene	0.000		0	N.D.	d	
25) Methyl Acetate	0.000		0	N.D.	d	
26) Methyl-t-butyl ether	3.642	73	2864m	0.2941	ug/l	
27) 1,1-Dichloroethane	4.001	63	1727	0.2803	ug/l	84
28) trans-1,2-Dichloroethene	3.660	96	1153	0.3271	ug/l	69
29) Ethyl-t-butyl ether	4.288	59	3141	0.2906	ug/l	96
30) cis-1,2-Dichloroethene	4.416	61	1749	0.2828	ug/l	96
31) Bromochloromethane	4.568	49	1156	0.3665	ug/l	91
32) 2,2-Dichloropropane	4.416	77	1633	0.3143	ug/l	95
33) Ethyl acetate	4.440	43	1673	0.4530	ug/l	90
34) 1,4-Dioxane	0.000		0	N.D.	d	
35) 1,1-Dichloropropene	4.824	75	1430	0.2989	ug/l	97
36) Chloroform	4.611	83	1930	0.3046	ug/l	92
38) Cyclohexane	4.770	56	1294	0.2820	ug/l	84
40) 1,2-Dichloroethane	4.952	62	1781m	0.3321	ug/l	
41) 2-Butanone	0.000		0	N.D.	d	
42) 1,1,1-Trichloroethane	0.000		0	N.D.	d	
43) Carbon Tetrachloride	0.000		0	N.D.	d	
44) Vinyl Acetate	0.000		0	N.D.	d	
45) Bromodichloromethane	0.000		0	N.D.	d	
46) Methylcyclohexane	0.000		0	N.D.	d	
47) Dibromomethane	0.000		0	N.D.	d	
48) 1,2-Dichloropropane	0.000		0	N.D.	d	
49) Trichloroethene	0.000		0	N.D.	d	
50) Benzene	4.952	78	4053m	0.3010	ug/l	
51) tert-Amyl methyl ether	0.000		0	N.D.	d	
53) Iso-propylacetate	0.000		0	N.D.	d	
54) Methyl methacrylate	0.000		0	N.D.	d	
55) Dibromochloromethane	0.000		0	N.D.	d	
56) 2-Chloroethylvinylether	0.000		0	N.D.	d	
57) cis-1,3-Dichloropropene	0.000		0	N.D.	d	
58) trans-1,3-Dichloropropene	0.000		0	N.D.	d	
59) Ethyl methacrylate	0.000		0	N.D.	d	
60) 1,1,2-Trichloroethane	0.000		0	N.D.	d	
61) 1,2-Dibromoethane	0.000		0	N.D.	d	
62) 1,3-Dichloropropane	0.000		0	N.D.	d	
63) 4-Methyl-2-Pentanone	0.000		0	N.D.	d	
64) 2-Hexanone	0.000		0	N.D.	d	
65) Tetrachloroethene	0.000		0	N.D.	d	
67) Toluene	0.000		0	N.D.	d	

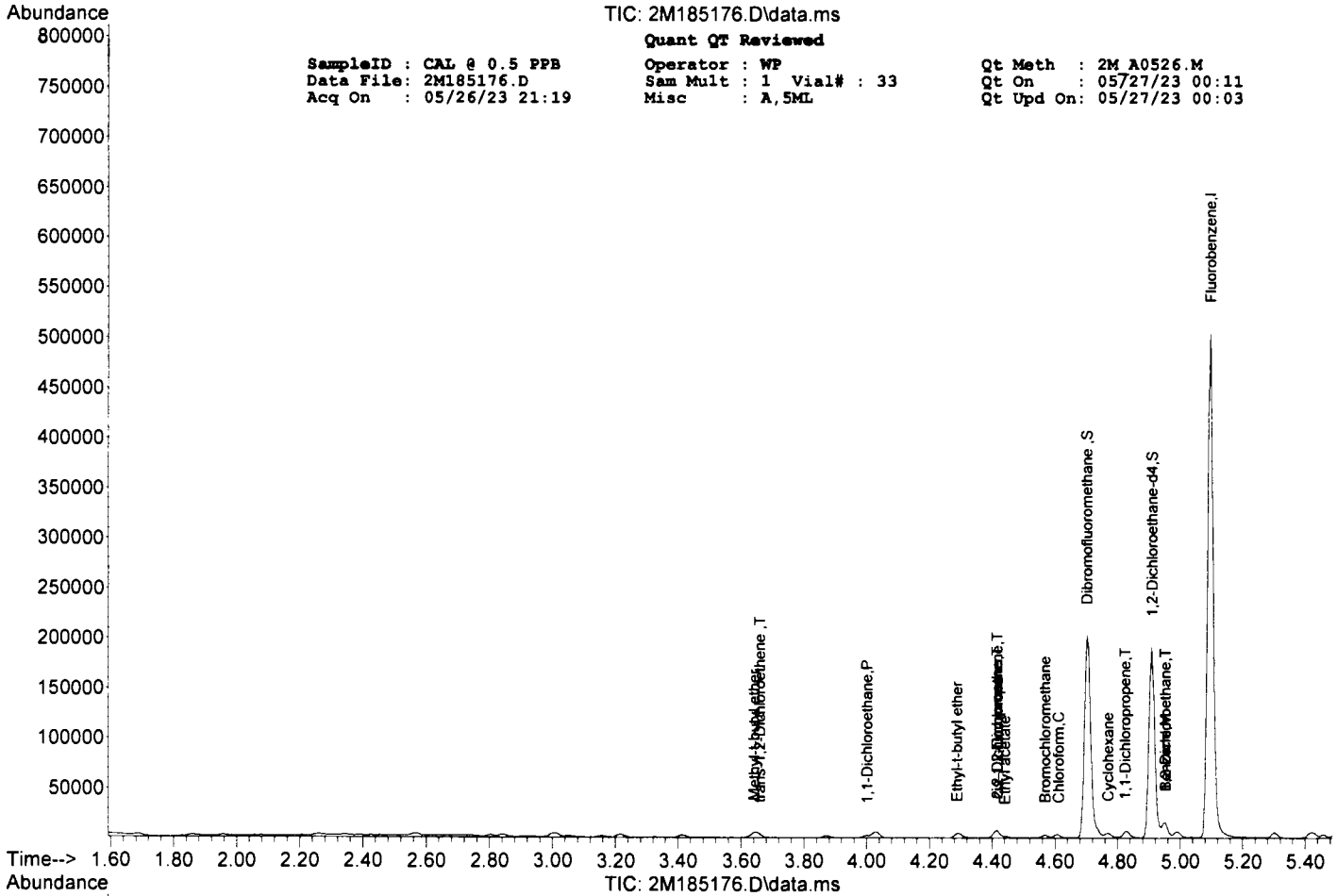
Quantitation Report (QT Reviewed)

SampleID : CAL @ 0.5 PPB Operator : WP Qt Meth : 2M_A0526.M
Data File: 2M185176.D Sam Mult : 1 Vial# : 33 Qt On : 05/27/23 00:11
Acq On : 05/26/23 21:19 Misc : A,5ML Qt Upd On: 05/27/23 00:03

Data Path : G:\GcMsData\2023\GCMS_2\Data\05-26-23\
Qt Path : G:\GcMsData\2023\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	0.000		0	N.D. d		
69)	Chlorobenzene	0.000		0	N.D. d		
71)	n-Butyl acrylate	0.000		0	N.D. d		
72)	n-Amyl acetate	0.000		0	N.D. d		
73)	Bromoform	0.000		0	N.D. d		
74)	Ethylbenzene	0.000		0	N.D. d		
75)	1,1,2,2-Tetrachloroethane	0.000		0	N.D. d		
77)	Styrene	0.000		0	N.D. d		
78)	m&p-Xylenes	6.848	106	4011	1.1455	ug/l	97
79)	o-Xylene	0.000		0	N.D. d		
80)	trans-1,4-Dichloro-2-b...	0.000		0	N.D. d		
81)	1,3-Dichlorobenzene	0.000		0	N.D. d		
82)	1,4-Dichlorobenzene	0.000		0	N.D. d		
83)	1,2-Dichlorobenzene	0.000		0	N.D. d		
84)	Isopropylbenzene	0.000		0	N.D. d		
85)	Cyclohexanone	0.000		0	N.D. d		
86)	Camphene	0.000		0	N.D. d		
87)	1,2,3-Trichloropropane	0.000		0	N.D. d		
88)	2-Chlorotoluene	0.000		0	N.D. d		
89)	p-Ethyltoluene	0.000		0	N.D. d		
90)	4-Chlorotoluene	0.000		0	N.D. d		
91)	n-Propylbenzene	0.000		0	N.D. d		
92)	Bromobenzene	0.000		0	N.D. d		
93)	1,3,5-Trimethylbenzene	0.000		0	N.D. d		
94)	Butyl methacrylate	0.000		0	N.D. d		
95)	t-Butylbenzene	0.000		0	N.D. d		
96)	1,2,4-Trimethylbenzene	0.000		0	N.D. d		
97)	sec-Butylbenzene	0.000		0	N.D. d		
98)	4-Isopropyltoluene	0.000		0	N.D. d		
99)	n-Butylbenzene	0.000		0	N.D. d		
100)	p-Diethylbenzene	0.000		0	N.D. d		
101)	1,2,4,5-Tetramethylben...	0.000		0	N.D. d		
102)	1,2-Dibromo-3-Chloropr...	0.000		0	N.D. d		
103)	Camphor	9.141	95	1653	7.8500	ug/l	99
104)	Hexachlorobutadiene	0.000		0	N.D. d		
105)	1,2,4-Trichlorobenzene	0.000		0	N.D. d		
106)	1,2,3-Trichlorobenzene	0.000		0	N.D. d		
107)	Naphthalene	0.000		0	N.D. d		

(#) = qualifier out of range (m) = manual integration (+) = signals summed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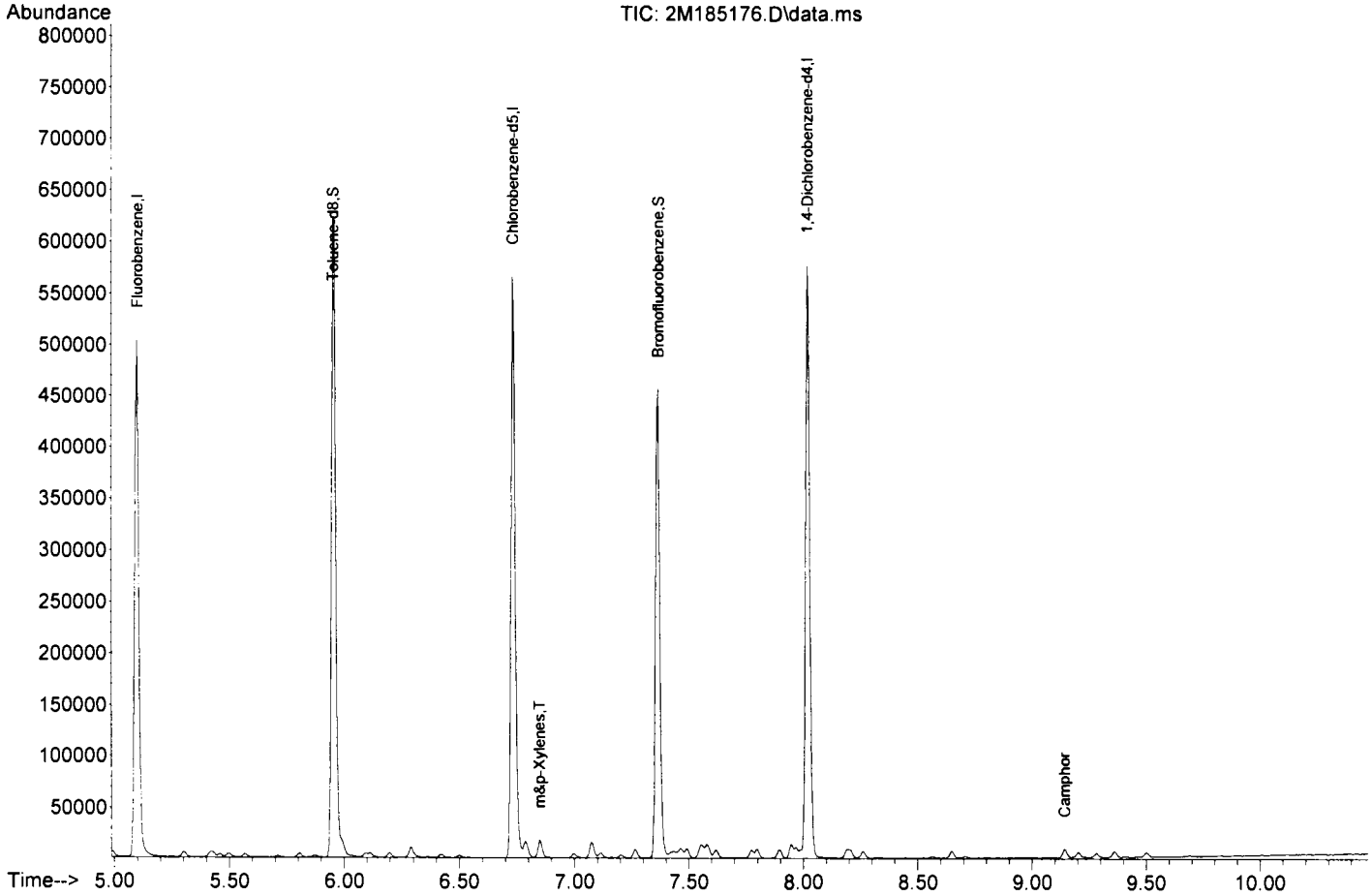
Quant QT Reviewed
SampleID : CAL @ 0.5 PPB
Data File: 2M185176.D
Acq On : 05/26/23 21:19
Operator : WP
Sam Mult : 1 Vial# : 33
Misc : A,5ML
Qt Meth : 2M_A0526.M
Qt On : 05/27/23 00:11
Qt Upd On: 05/27/23 00:03
Fluorobenzene,I
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
1,1-Dichloroethane,P
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
1,1-Dichloropropene,T
Time-->


Abundance
TIC: 2M185176.D\data.ms
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
m&p-Xylenes,T
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Camphor
Time-->

TxtDfile: 2M185189.D ICV FORM Date/Time: 05/27/23 01:39

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
Chlorodifluoromethane	1	0		21.1191	20	106		70	130
Dichlorodifluoromethane	1	0		22.5488	20	113		50	150
Chloromethane	1	0		22.398	20	112		70	130
Bromomethane	**1**	**0**		**23.101**	**20**	**116**		**70**	**130**
Vinyl Chloride	1	0		21.3876	20	107		70	130
Chloroethane	1	0		21.4303	20	107		70	130
Trichlorofluoromethane	1	0		21.3372	20	107		70	130
Ethyl ether	1	0		20.9034	20	105		70	130
Furan	1	0		21.0178	20	105		70	130
1.1.2-Trichloro-1.2.2-trifluoroethane	1	0		21.7426	20	109		70	130
Methylene Chloride	1	0		21.1766	20	106		70	130
Acrolein	1	0		105.1544	100	105		50	150
Acrylonitrile	1	0		21.3167	20	107		50	150
Iodomethane	1	0		9.1488	20	46	*	70	130
Acetone	1	0		104.3195	100	104		50	150
Carbon Disulfide	1	0		22.0883	20	110		70	130
t-Butyl Alcohol	1	0		99.0678	100	99		50	150
n-Hexane	1	0		21.6502	20	108		70	130
Di-isopropyl-ether	1	0		21.6886	20	108		70	130
1.1-Dichloroethene	1	0		21.5616	20	108		70	130
Methyl Acetate	1	0		20.1878	20	101		70	130
Methyl-t-butyl ether	1	0		21.4393	20	107		70	130
1.1-Dichloroethane	1	0		21.6607	20	108		70	130
trans-1.2-Dichloroethene	1	0		21.197	20	106		70	130
Ethyl-t-butyl ether	1	0		21.7184	20	109		70	130
cis-1.2-Dichloroethene	1	0		21.4816	20	107		70	130
Bromochloromethane	1	0		20.8805	20	104		70	130
2.2-Dichloropropane	1	0		19.8419	20	99		70	130
Ethyl acetate	1	0		19.0821	20	95		70	130
1.4-Dioxane	1	0		930.6677	1000	93		70	130
1.1-Dichloropropene	1	0		21.846	20	109		70	130
Chloroform	1	0		21.3996	20	107		70	130
Cyclohexane	1	0		22.1421	20	111		70	130
1.2-Dichloroethane	1	0		20.7531	20	104		70	130
2-Butanone	1	0		21.0858	20	105		70	130
1.1.1-Trichloroethane	1	0		21.4025	20	107		70	130
Carbon Tetrachloride	1	0		21.5374	20	108		70	130
Vinyl Acetate	1	0		21.2767	20	106		70	130
Bromodichloromethane	1	0		20.9661	20	105		70	130
Methylcyclohexane	1	0		21.9503	20	110		70	130
Dibromomethane	1	0		20.7542	20	104		70	130
1.2-Dichloropropane	1	0		21.356	20	107		70	130
Trichloroethene	1	0		21.4512	20	107		70	130
Benzene	1	0		21.7169	20	109		70	130
Iso-propylacetate	1	0		21.8301	20	109		70	130
Methyl methacrylate	1	0		21.4584	20	107		70	130
Dibromochloromethane	1	0		21.3959	20	107		70	130
2-Chloroethylvinylether	1	0		22.1963	20	111		70	130
cis-1.3-Dichloropropene	1	0		21.3173	20	107		70	130
trans-1.3-Dichloropropene	1	0		21.4344	20	107		70	130
Ethyl methacrylate	1	0		21.5979	20	108		70	130
1.1.2-Trichloroethane	1	0		20.8793	20	104		70	130
1.2-Dibromoethane	1	0		21.4212	20	107		70	130
1.3-Dichloropropane	1	0		21.7528	20	109		70	130
4-Methyl-2-Pentanone	1	0		21.278	20	106		70	130
2-Hexanone	1	0		21.6233	20	108		70	130
Tetrachloroethene	1	0		21.8616	20	109		70	130
Toluene	1	0		21.8773	20	109		70	130
1.1.1.2-Tetrachloroethane	1	0		21.3293	20	107		70	130
Chlorobenzene	1	0		21.5797	20	108		70	130
n-Butyl acrylate	1	0		22.3114	20	112		70	130
n-Amyl acetate	1	0		22.4923	20	112		70	130
Bromoform	1	0		21.5148	20	108		70	130
Ethylbenzene	1	0		21.7073	20	109		70	130
1.1.2.2-Tetrachloroethane	1	0		21.5636	20	108		70	130
Styrene	1	0		22.4705	20	112		70	130
m&p-Xylenes	1	0		45.0523	40	113		70	130
o-Xylene	1	0		22.0373	20	110		70	130
trans-1.4-Dichloro-2-butene	1	0		21.4874	20	107		70	130
1.3-Dichlorobenzene	1	0		21.3838	20	107		70	130
1.4-Dichlorobenzene	1	0		21.4302	20	107		70	130
1.2-Dichlorobenzene	1	0		21.2754	20	106		70	130
Isopropylbenzene	1	0		22.2976	20	111		70	130
1.2.3-Trichloropropane	1	0		21.2638	20	106		70	130
2-Chlorotoluene	1	0		21.9161	20	110		70	130
4-Chlorotoluene	1	0		22.3548	20	112		70	130
n-Propylbenzene	1	0		22.4736	20	112		70	130
Bromobenzene	1	0		21.7719	20	109		70	130
1.3.5-Trimethylbenzene	1	0		22.2786	20	111		70	130
Butyl methacrylate	1	0		22.0445	20	110		70	130
t-Butylbenzene	1	0		22.0889	20	110		70	130
1.2.4-Trimethylbenzene	1	0		22.1638	20	111		70	130
sec-Butylbenzene	1	0		21.973	20	110		70	130
4-Isopropyltoluene	1	0		21.905	20	110		70	130
n-Butylbenzene	1	0		21.8458	20	109		70	130
1.2-Dibromo-3-Chloropropane	1	0		20.6402	20	103		70	130
Hexachlorobutadiene	1	0		22.1972	20	111		70	130
1.2.4-Trichlorobenzene	1	0		21.2039	20	106		70	130
1.2.3-Trichlorobenzene	1	0		21.1883	20	106		70	130
Naphthalene	1	0		21.0353	20	105		70	130

TxtDfile: 6M167867.D ICV FORM Date/Time: 05/10/23 08:17

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
Chlorodifluoromethane	1	0		45.7751	50	92		70	130
Dichlorodifluoromethane	1	0		45.7928	50	92		50	150
Chloromethane	1	0		45.2564	50	91		70	130
Bromomethane	**1**	**0**		**47.927**	**50**	**96**		**70**	**130**
Vinyl Chloride	1	0		47.4509	50	95		70	130
Chloroethane	1	0		46.0489	50	92		70	130
Trichlorofluoromethane	1	0		46.7274	50	93		70	130
Ethyl ether	1	0		46.7002	50	93		70	130
Furan	1	0		46.0592	50	92		70	130
1.1.2-Trichloro-1.2.2-trifluoroethane	1	0		45.8783	50	92		70	130
Methylene Chloride	1	0		45.5237	50	91		70	130
Acrolein	1	0		249.7203	250	100		50	150
Acrylonitrile	1	0		47.7229	50	95		50	150
Iodomethane	1	0		43.2999	50	87		70	130
Acetone	1	0		262.6103	250	105		50	150
Carbon Disulfide	1	0		44.787	50	90		70	130
t-Butyl Alcohol	1	0		240.3237	250	96		50	150
n-Hexane	1	0		46.3281	50	93		70	130
Di-isopropyl-ether	1	0		48.9312	50	98		70	130
1.1-Dichloroethene	1	0		45.6225	50	91		70	130
Methyl Acetate	1	0		49.3416	50	99		70	130
Methyl-t-butyl ether	1	0		49.0261	50	98		70	130
1.1-Dichloroethane	1	0		47.1205	50	94		70	130
trans-1.2-Dichloroethene	1	0		47.0089	50	94		70	130
Ethyl-t-butyl ether	1	0		46.6551	50	93		70	130
cis-1.2-Dichloroethene	1	0		46.8819	50	94		70	130
Bromochloromethane	1	0		47.306	50	95		70	130
2.2-Dichloropropane	1	0		45.4536	50	91		70	130
Ethyl acetate	1	0		48.4042	50	97		70	130
1.4-Dioxane	1	0		2527.094	2500	101		70	130
1.1-Dichloropropene	1	0		44.658	50	89		70	130
Chloroform	1	0		45.4622	50	91		70	130
Cyclohexane	1	0		46.0002	50	92		70	130
1.2-Dichloroethane	1	0		45.7946	50	92		70	130
2-Butanone	1	0		46.7953	50	94		70	130
1.1.1-Trichloroethane	1	0		45.4417	50	91		70	130
Carbon Tetrachloride	1	0		45.7994	50	92		70	130
Vinyl Acetate	1	0		47.8869	50	96		70	130
Bromodichloromethane	1	0		45.5951	50	91		70	130
Methylcyclohexane	1	0		45.5717	50	91		70	130
Dibromomethane	1	0		46.5286	50	93		70	130
1.2-Dichloropropane	1	0		45.2488	50	90		70	130
Trichloroethene	1	0		43.3166	50	87		70	130
Benzene	1	0		46.0842	50	92		70	130
Iso-propylacetate	1	0		49.2234	50	98		70	130
Methyl methacrylate	1	0		49.299	50	99		70	130
Dibromochloromethane	1	0		46.6821	50	93		70	130
2-Chloroethylvinylether	1	0		46.8947	50	94		70	130
cis-1.3-Dichloropropene	1	0		46.2614	50	93		70	130
trans-1.3-Dichloropropene	1	0		46.2355	50	92		70	130
Ethyl methacrylate	1	0		49.7445	50	99		70	130
1.1.2-Trichloroethane	1	0		46.6874	50	93		70	130
1.2-Dibromoethane	1	0		45.8294	50	92		70	130
1.3-Dichloropropane	1	0		47.3978	50	95		70	130
4-Methyl-2-Pentanone	1	0		50.4237	50	101		70	130
2-Hexanone	1	0		50.4987	50	101		70	130
Tetrachloroethene	1	0		45.9692	50	92		70	130
Toluene	1	0		44.6492	50	89		70	130
1.1.1.2-Tetrachloroethane	1	0		46.3974	50	93		70	130
Chlorobenzene	1	0		44.5387	50	89		70	130
n-Butyl acrylate	1	0		48.0825	50	96		70	130
n-Amyl acetate	1	0		49.3017	50	99		70	130
Bromoform	1	0		46.5242	50	93		70	130
Ethylbenzene	1	0		46.3214	50	93		70	130
1.1.2.2-Tetrachloroethane	1	0		47.8145	50	96		70	130
Styrene	1	0		46.6437	50	93		70	130
m&p-Xylenes	1	0		91.3286	100	91		70	130
o-Xylene	1	0		46.1699	50	92		70	130
trans-1.4-Dichloro-2-butene	1	0		47.2139	50	94		70	130
1.3-Dichlorobenzene	1	0		43.9193	50	88		70	130
1.4-Dichlorobenzene	1	0		42.5501	50	85		70	130
1.2-Dichlorobenzene	1	0		44.1197	50	88		70	130
Isopropylbenzene	1	0		47.1476	50	94		70	130
1.2.3-Trichloropropane	1	0		45.9973	50	92		70	130
2-Chlorotoluene	1	0		44.6219	50	89		70	130
4-Chlorotoluene	1	0		47.9623	50	96		70	130
n-Propylbenzene	1	0		48.2495	50	96		70	130
Bromobenzene	1	0		45.697	50	91		70	130
1.3.5-Trimethylbenzene	1	0		50.5059	50	101		70	130
Butyl methacrylate	1	0		48.5176	50	97		70	130
t-Butylbenzene	1	0		47.2497	50	94		70	130
1.2.4-Trimethylbenzene	1	0		48.071	50	96		70	130
sec-Butylbenzene	1	0		49.8391	50	100		70	130
4-Isopropyltoluene	1	0		40.4339	50	81		70	130
n-Butylbenzene	1	0		47.5756	50	95		70	130
1.2-Dibromo-3-Chloropropane	1	0		48.5942	50	97		70	130
Hexachlorobutadiene	1	0		45.8266	50	92		70	130
1.2.4-Trichlorobenzene	1	0		42.9719	50	86		70	130
1.2.3-Trichlorobenzene	1	0		43.4221	50	87		70	130
Naphthalene	1	0		47.2422	50	94		70	130

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 2M186038.D **Instrument:** GCMS 2

Cont Calibration Date/Time 6/15/2023 7:21:00 P Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.10	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.70	16.02	20	20	0.1	0.280	0.224	19.92	
Dichlorodifluoromethane	1	0		1.68	12.51	20	20	0.1	0.273	0.171	37.43	C1
Chloromethane	1	0		1.86	9.82	20	20	0.1	0.238	0.117	50.91	C1
Bromomethane	1	0		2.26	9.67	20	20	0.1	0.152	0.074	51.66	C1
Vinyl Chloride	1	0		1.96	11.13	20	20	0.1	0.264	0.147	44.33	C1
Chloroethane	1	0		2.34	10.98	20	20	0.1	0.161	0.088	45.09	C1
Trichlorofluoromethane	1	0		2.56	13.89	20	20	0.1	0.363	0.252	30.55	C1
Ethyl ether	1	0		2.80	15.79	20	20	0.5	0.211	0.167	21.04	C1
Furan	1	0		2.84	18.18	20	20	0.5	0.331	0.301	9.09	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		3.00	15.96	20	20	0.1	0.182	0.145	20.20	
Methylene Chloride	1	0		3.41	17.30	20	20	0.1	0.231	0.200	13.52	
Acrolein	1	0		2.92	80.52	100	20		0.040	0.033	19.48	
Acrylonitrile	1	0		3.62	16.07	20	20		0.098	0.079	19.67	
Iodomethane	1	0		3.15	11.70	20	20		0.286	0.167	41.51	C1
Acetone	1	0		3.04	84.56	100	20	0.1	0.074	0.063	15.44	
Carbon Disulfide	1	0		3.21	17.69	20	20	0.1	0.597	0.528	11.55	
t-Butyl Alcohol	1	0		3.48	89.62	100	20		0.029	0.026	10.38	
n-Hexane	1	0		3.87	17.98	20	20		0.195	0.175	10.09	
Di-isopropyl-ether	1	0		4.03	16.76	20	20		0.607	0.508	16.20	
1,1-Dichloroethene	1	0		3.01	16.48	20	20	0.1	0.311	0.256	17.61	
Methyl Acetate	1	0		3.32	13.27	20	20	0.1	0.183	0.121	33.65	C1
Methyl-t-butyl ether	1	0		3.64	18.00	20	20	0.1	0.621	0.559	10.00	
1,1-Dichloroethane	1	0		4.00	16.21	20	20	0.2	0.384	0.311	18.95	
trans-1,2-Dichloroethene	1	0		3.65	17.94	20	20	0.1	0.232	0.208	10.32	
Ethyl-t-butyl ether	1	0		4.29	16.07	20	20	0.5	0.677	0.544	19.63	
cis-1,2-Dichloroethene	1	0		4.41	16.33	20	20	0.1	0.385	0.314	18.36	
Bromochloromethane	1	0		4.57	16.48	20	20		0.191	0.157	17.59	
2,2-Dichloropropane	1	0		4.42	18.83	20	20		0.339	0.319	5.84	
Ethyl acetate	1	0		4.44	16.25	20	20		0.283	0.230	18.76	
1,4-Dioxane	1	0		5.49	1197.91	1000	20		0.002	0.003	19.79	
1,1-Dichloropropene	1	0		4.82	18.06	20	20		0.297	0.268	9.69	
Chloroform	1	0		4.60	17.70	20	20	0.2	0.403	0.357	11.52	
Dibromofluoromethane	1	0	S	4.70	28.87	30	**		0.276	0.265	3.78	
Cyclohexane	1	0		4.77	17.99	20	20	0.1	0.273	0.246	10.04	
1,2-Dichloroethane-d4	1	0	S	4.91	28.69	30	**		0.148	0.141	4.37	
1,2-Dichloroethane	1	0		4.95	16.52	20	20	0.1	0.334	0.276	17.42	
2-Butanone	1	0		4.41	14.79	20	20	0.1	0.117	0.086	26.05	C1
1,1,1-Trichloroethane	1	0		4.73	18.17	20	20	0.1	0.379	0.344	9.16	
Carbon Tetrachloride	1	0		4.83	17.75	20	20	0.1	0.329	0.292	11.25	
Vinyl Acetate	1	0		4.03	14.30	20	20		0.752	0.538	28.51	C1
Bromodichloromethane	1	0		5.57	16.94	20	20	0.2	0.321	0.272	15.29	
Methylcyclohexane	1	0		5.42	21.69	20	20	0.1	0.257	0.279	8.44	
Dibromomethane	1	0		5.49	15.98	20	20		0.213	0.171	20.10	
1,2-Dichloropropane	1	0		5.43	15.92	20	20	0.1	0.226	0.180	20.41	
Trichloroethene	1	0		5.30	17.55	20	20	0.2	0.274	0.241	12.24	
Benzene	1	0		4.95	19.16	20	20	0.5	0.859	0.823	4.22	
tert-Amyl methyl ether	1	0		4.99	18.56	20	20		0.646	0.600	7.18	
Chlorobenzene-d5	1	0	I	6.73	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.95	14.67	20	20	0.5	0.612	0.449	26.66	C1
Methyl methacrylate	1	0		5.46	13.76	20	20	0.5	0.289	0.199	31.19	C1
Dibromochloromethane	1	0		6.42	15.94	20	20	0.1	0.350	0.279	20.31	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 2M186038.D **Instrument:** GCMS 2

Cont Calibration Date/Time 6/15/2023 7:21:00 P Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.71	15.20	20	20		0.148	0.112	23.98	C1
cis-1,3-Dichloropropene	1	0		5.81	17.13	20	20	0.2	0.467	0.400	14.37	
trans-1,3-Dichloropropene	1	0		6.09	17.38	20	20	0.1	0.442	0.384	13.12	
Ethyl methacrylate	1	0		6.11	17.66	20	20	0.5	0.286	0.253	11.69	
1,1,2-Trichloroethane	1	0		6.20	16.28	20	20	0.1	0.284	0.232	18.58	
1,2-Dibromoethane	1	0		6.49	15.18	20	20	0.1	0.310	0.236	24.10	C1
1,3-Dichloropropane	1	0		6.29	16.68	20	20		0.458	0.382	16.61	
4-Methyl-2-Pentanone	1	0		5.87	14.40	20	20	0.1	0.301	0.217	27.99	C1
2-Hexanone	1	0		6.31	15.57	20	20	0.1	0.220	0.171	22.15	C1
Tetrachloroethene	1	0		6.29	16.31	20	20	0.2	0.273	0.223	18.43	
Toluene-d8	1	0	S	5.95	30.53	30	**		1.223	1.245	1.78	
Toluene	1	0		5.99	18.37	20	20	0.4	0.719	0.661	8.16	
1,1,1,2-Tetrachloroethane	1	0		6.79	16.17	20	20		0.302	0.244	19.17	
Chlorobenzene	1	0		6.75	17.36	20	20	0.5	0.829	0.719	13.21	
1,4-Dichlorobenzene-d4	1	0	I	8.02	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		6.99	16.10	20	20	0.5	1.126	0.906	19.51	
n-Amyl acetate	1	0		7.11	16.46	20	20	0.5	0.951	0.782	17.72	
Bromoform	1	0		7.20	14.94	20	20	0.1	0.519	0.387	25.32	C1
Ethylbenzene	1	0		6.79	19.83	20	20	0.1	0.667	0.662	0.85	
1,1,2,2-Tetrachloroethane	1	0		7.42	16.13	20	20	0.1	0.722	0.582	19.35	
Bromofluorobenzene	1	0	S	7.37	29.22	30	**		0.874	0.852	2.60	
Styrene	1	0		7.07	19.67	20	20	0.3	1.659	1.632	1.63	
m&p-Xylenes	1	0		6.85	40.39	40	20	0.1	0.979	0.988	0.96	
o-Xylene	1	0		7.07	19.79	20	20	0.3	0.972	0.962	1.05	
trans-1,4-Dichloro-2-butene	1	0		7.45	16.11	20	20		0.254	0.204	19.48	
1,3-Dichlorobenzene	1	0		7.99	17.76	20	20	0.6	1.155	1.025	11.19	
1,4-Dichlorobenzene	1	0		8.04	17.97	20	20	0.5	1.180	1.061	10.14	
1,2-Dichlorobenzene	1	0		8.26	17.79	20	20	0.4	1.076	0.957	11.08	
Isopropylbenzene	1	0		7.26	19.82	20	20	0.1	2.134	2.115	0.88	
Cyclohexanone	1	0		7.34	155.22	100	20		0.034	0.053	55.22	C1
Camphene	1	0		7.43	21.47	20	20		0.555	0.596	7.34	
1,2,3-Trichloropropane	1	0		7.46	17.13	20	20		0.879	0.753	14.36	
2-Chlorotoluene	1	0		7.56	19.11	20	20		1.375	1.314	4.45	
p-Ethyltoluene	1	0		7.55	20.93	20	20		2.342	2.451	4.67	
4-Chlorotoluene	1	0		7.62	18.79	20	20		1.332	1.252	6.05	
n-Propylbenzene	1	0		7.49	19.65	20	20		2.455	2.412	1.75	
Bromobenzene	1	0		7.46	17.51	20	20		1.405	1.230	12.44	
1,3,5-Trimethylbenzene	1	0		7.58	20.00	20	20		1.553	1.553	0.00	
Butyl methacrylate	1	0		7.59	15.91	20	20	0.5	0.637	0.507	20.44	
t-Butylbenzene	1	0		7.77	20.06	20	20		1.708	1.713	0.30	
1,2,4-Trimethylbenzene	1	0		7.80	19.73	20	20		1.809	1.784	1.36	
sec-Butylbenzene	1	0		7.90	20.68	20	20		1.938	2.004	3.39	
4-Isopropyltoluene	1	0		7.97	20.36	20	20		1.739	1.770	1.78	
n-Butylbenzene	1	0		8.21	20.03	20	20		1.641	1.644	0.14	
p-Diethylbenzene	1	0		8.19	20.84	20	20		1.002	1.044	4.19	
1,2,4,5-Tetramethylbenzene	1	0		8.65	20.12	20	20		1.358	1.366	0.60	
1,2-Dibromo-3-Chloropropane	1	0		8.71	15.93	20	20	0.05	0.184	0.147	20.35	
Camphor	1	0		9.15	187.63	200	20		0.073	0.069	6.18	
Hexachlorobutadiene	1	0		9.29	15.93	20	20		0.247	0.197	20.37	
1,2,4-Trichlorobenzene	1	0		9.20	18.14	20	20	0.2	0.516	0.468	9.28	
1,2,3-Trichlorobenzene	1	0		9.50	17.89	20	20		0.430	0.385	10.54	
Naphthalene	1	0		9.36	19.20	20	20		1.486	1.426	4.01	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Quantitation Report (QT Reviewed)

SampleID : CAL @ 20 PPB Operator : WP Qt Meth : 2M_A0526.M
Data File: 2M186038.D Sam Mult : 1 Vial# : 8 Qt On : 06/15/23 19:39
Acq On : 06/15/23 19:21 Misc : A,5ML Qt Upd On: 05/27/23 00:16

Data Path : G:\GcMsData\2023\GCMS_2\Data\06-15-23\
Qt Path : G:\GcMsData\2023\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.099	96	407518	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.732	117	343937	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	169717	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.702	111	108079	28.87	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.23%			
39) 1,2-Dichloroethane-d4	4.910	67	57499	28.69	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.63%			
66) Toluene-d8	5.952	98	428145	30.53	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.77%			
76) Bromofluorobenzene	7.366	174	144538	29.22	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.40%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.697	51	60835	16.0151	ug/l	80
6) Dichlorodifluoromethane	1.685	85	46450	12.5136	ug/l	99
7) Chloromethane	1.855	50	31775m	9.8182	ug/l	
8) Bromomethane	2.258	94	19987m	9.6682	ug/l	
9) Vinyl Chloride	1.959	62	39923	11.1346	ug/l	99
10) Chloroethane	2.343	64	24004	10.9814	ug/l	93
11) Trichlorofluoromethane	2.562	101	68488	13.8908	ug/l	98
12) Ethyl ether	2.800	59	45339m	15.7916	ug/l	
13) Furan	2.843	39	81759m	18.1814	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	3.001	101	39400	15.9605	ug/l	97
15) Methylene Chloride	3.410	84	54358	17.2956	ug/l	84
16) Acrolein	2.922	56	44226	80.5165	ug/l	99
17) Acrylonitrile	3.623	53	21367	16.0653	ug/l	95
18) Iodomethane	3.154	142	45493m	11.6986	ug/l	
19) Acetone	3.044	43	84906	84.5628	ug/l	86
20) Carbon Disulfide	3.215	76	143411	17.6897	ug/l	100
21) t-Butyl Alcohol	3.483	59	35521	89.6185	ug/l	98
22) n-Hexane	3.873	57	47516	17.9816	ug/l	92
23) Di-isopropyl-ether	4.032	45	138122m	16.7596	ug/l	
24) 1,1-Dichloroethene	3.008	61	69519m	16.4786	ug/l	
25) Methyl Acetate	3.318	43	32913	13.2699	ug/l	100
26) Methyl-t-butyl ether	3.642	73	151928	17.9996	ug/l	94
27) 1,1-Dichloroethane	4.001	63	84511	16.2096	ug/l	100
28) trans-1,2-Dichloroethene	3.654	96	56464	17.9361	ug/l	87
29) Ethyl-t-butyl ether	4.294	59	147733	16.0743	ug/l	96
30) cis-1,2-Dichloroethene	4.410	61	85347	16.3271	ug/l	97
31) Bromochloromethane	4.568	49	42743m	16.4815	ug/l	
32) 2,2-Dichloropropane	4.416	77	86714	18.8325	ug/l	94
33) Ethyl acetate	4.440	43	62383m	16.2490	ug/l	
34) 1,4-Dioxane	5.495	88	38487	1197.9109	ug/l	95
35) 1,1-Dichloropropene	4.824	75	72848	18.0613	ug/l	98
36) Chloroform	4.605	83	96928	17.6970	ug/l	100
38) Cyclohexane	4.769	56	66833	17.9926	ug/l	95
40) 1,2-Dichloroethane	4.952	62	74866	16.5163	ug/l	98
41) 2-Butanone	4.410	43	23415m	14.7902	ug/l	
42) 1,1,1-Trichloroethane	4.733	97	93436	18.1684	ug/l	99
43) Carbon Tetrachloride	4.830	117	79430	17.7498	ug/l	99
44) Vinyl Acetate	4.026	43	146147	14.2976	ug/l	100
45) Bromodichloromethane	5.568	83	73920	16.9429	ug/l	98
46) Methylcyclohexane	5.416	83	75699	21.6882	ug/l	93
47) Dibromomethane	5.495	174	46344m	15.9804	ug/l	
48) 1,2-Dichloropropane	5.428	63	48777m	15.9172	ug/l	
49) Trichloroethene	5.300	130	65376	17.5513	ug/l	95
50) Benzene	4.946	78	223480	19.1555	ug/l	100
51) tert-Amyl methyl ether	4.989	73	163010	18.5639	ug/l	98
53) Iso-propylacetate	4.946	43	102990m	14.6672	ug/l	
54) Methyl methacrylate	5.458	41	45664	13.7618	ug/l	81
55) Dibromochloromethane	6.422	129	63882m	15.9379	ug/l	
56) 2-Chloroethylvinylether	5.708	63	25776m	15.2045	ug/l	
57) cis-1,3-Dichloropropene	5.806	75	91704	17.1263	ug/l	97
58) trans-1,3-Dichloropropene	6.092	75	87965	17.3759	ug/l	99
59) Ethyl methacrylate	6.111	41	57986m	17.6616	ug/l	
60) 1,1,2-Trichloroethane	6.196	97	53081	16.2845	ug/l	98
61) 1,2-Dibromoethane	6.495	107	54015	15.1794	ug/l	93
62) 1,3-Dichloropropane	6.287	76	87558	16.6777	ug/l	97
63) 4-Methyl-2-Pentanone	5.873	43	49754m	14.4011	ug/l	
64) 2-Hexanone	6.306	43	39317m	15.5701	ug/l	
65) Tetrachloroethene	6.293	164	51079	16.3143	ug/l	99
67) Toluene	5.995	92	151455	18.3672	ug/l	93

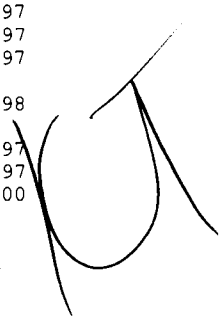
Quantitation Report (QT Reviewed)

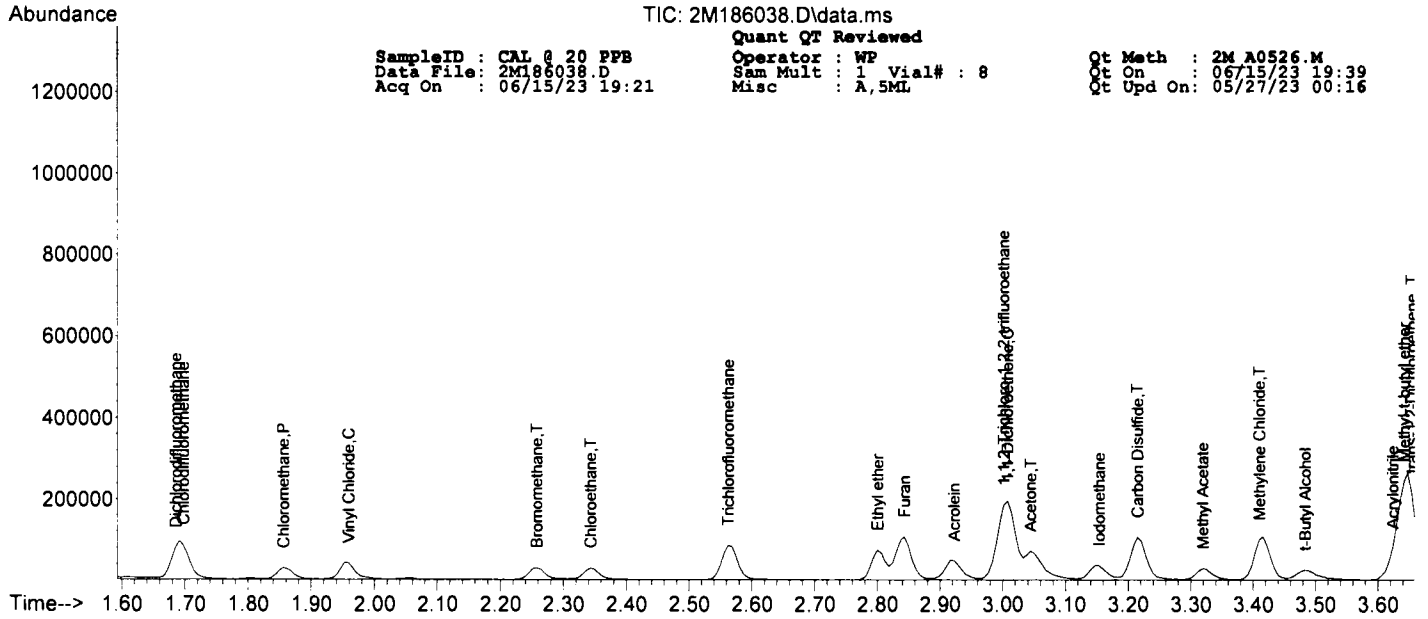
SampleID : CAL @ 20 PPB Operator : WP Qt Meth : 2M_A0526.M
Data File: 2M186038.D Sam Mult : 1 Vial# : 8 Qt On : 06/15/23 19:39
Acq On : 06/15/23 19:21 Misc : A,5ML Qt Upd On: 05/27/23 00:16

Data Path : G:\GcMsData\2023\GCMS_2\Data\06-15-23\
Qt Path : G:\GcMsData\2023\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.787	133	55890	16.1655	ug/l	98
69)	Chlorobenzene	6.751	112	164961	17.3590	ug/l	98
71)	n-Butyl acrylate	6.995	55	102538	16.0976	ug/l	96
72)	n-Amyl acetate	7.110	43	88486m	16.4557	ug/l	
73)	Bromoform	7.202	173	43830	14.9359	ug/l	98
74)	Ethylbenzene	6.793	106	74871	19.8302	ug/l	91
75)	1,1,2,2-Tetrachloroethane	7.415	83	65864	16.1301	ug/l	97
77)	Styrene	7.074	104	184599	19.6743	ug/l	99
78)	m&p-Xylenes	6.848	106	223616	40.3853	ug/l	96
79)	o-Xylene	7.074	106	108829	19.7893	ug/l	100
80)	trans-1,4-Dichloro-2-b...	7.446	53	23125	16.1050	ug/l	87
81)	1,3-Dichlorobenzene	7.988	146	116018	17.7627	ug/l	99
82)	1,4-Dichlorobenzene	8.037	146	120004	17.9728	ug/l	97
83)	1,2-Dichlorobenzene	8.263	146	108278	17.7850	ug/l	99
84)	Isopropylbenzene	7.263	105	239282	19.8245	ug/l	99
85)	Cyclohexanone	7.342	55	30060	155.2211	ug/l	89
86)	Camphene	7.434	93	67467	21.4688	ug/l	99
87)	1,2,3-Trichloropropane	7.458	75	85188	17.1280	ug/l	98
88)	2-Chlorotoluene	7.562	91	148643	19.1105	ug/l	99
89)	p-Ethyltoluene	7.549	105	277337	20.9335	ug/l	93
90)	4-Chlorotoluene	7.616	91	141640	18.7908	ug/l	99
91)	n-Propylbenzene	7.495	91	272877	19.6497	ug/l	98
92)	Bromobenzene	7.464	77	139184	17.5119	ug/l	96
93)	1,3,5-Trimethylbenzene	7.580	105	175748	19.9995	ug/l	88
94)	Butyl methacrylate	7.586	41	57309m	15.9113	ug/l	
95)	t-Butylbenzene	7.775	119	193872	20.0597	ug/l	99
96)	1,2,4-Trimethylbenzene	7.799	105	201878	19.7287	ug/l	98
97)	sec-Butylbenzene	7.897	105	226736	20.6778	ug/l	98
98)	4-Isopropyltoluene	7.970	119	200264	20.3561	ug/l	99
99)	n-Butylbenzene	8.208	91	185974	20.0279	ug/l	97
100)	p-Diethylbenzene	8.190	119	118109	20.8386	ug/l	97
101)	1,2,4,5-Tetramethylben...	8.647	119	154565	20.1205	ug/l	97
102)	1,2-Dibromo-3-Chloropr...	8.714	157	16607m	15.9301	ug/l	
103)	Camphor	9.147	95	77854	187.6313	ug/l	98
104)	Hexachlorobutadiene	9.287	225	22241m	15.9261	ug/l	
105)	1,2,4-Trichlorobenzene	9.202	180	52986	18.1438	ug/l	97
106)	1,2,3-Trichlorobenzene	9.500	180	43507	17.8916	ug/l	97
107)	Naphthalene	9.360	128	161397	19.1987	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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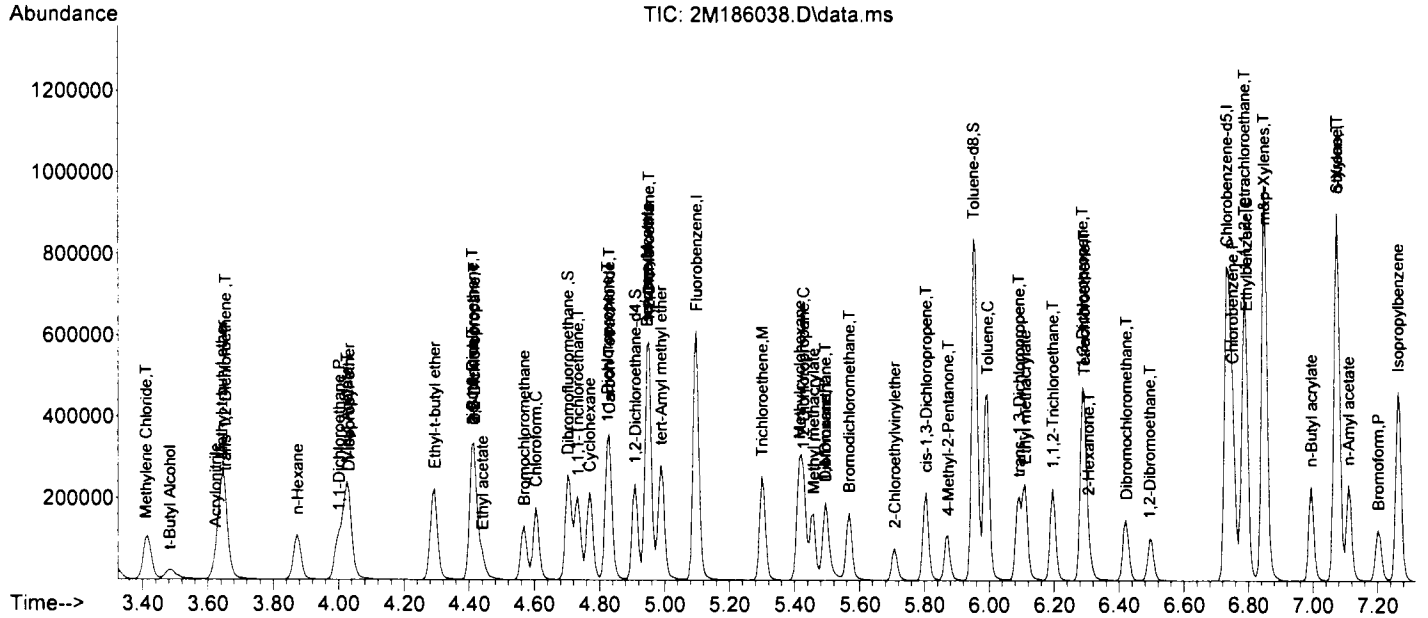
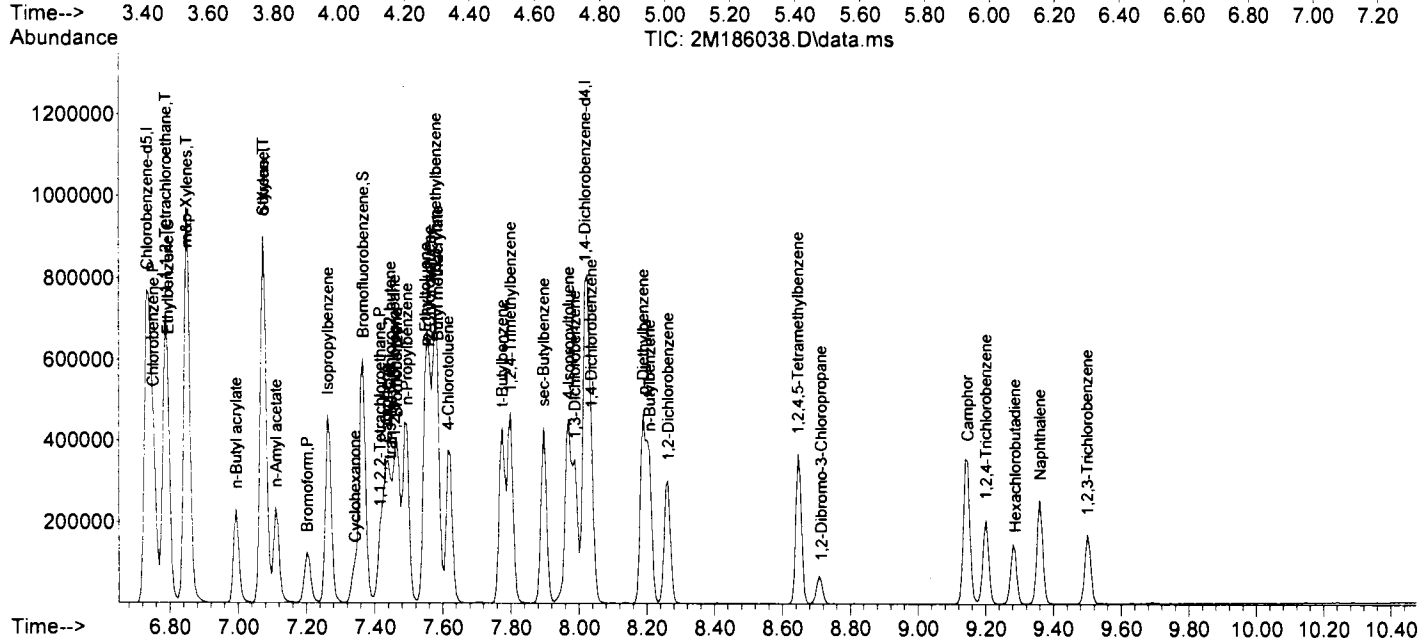
TIC: 2M186038.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 20 PPB
Data File: 2M186038.D
Acq On : 06/15/23 19:21
Operator : WP
Sam Mult : 1 Vial# : 8
Misc : A,5ML
Qt Meth : 2M_A0526.M
Qt On : 06/15/23 19:39
Qt Upd On: 05/27/23 00:16
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Time-->


Abundance
TIC: 2M186038.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,C
Cyclohexane
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,P
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Time-->


Abundance
TIC: 2M186038.D\data.ms
Chlorobenzene-d5,I
Chlorobenzene,P
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
4-Chlorotoluene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
1,4-Dichlorobenzene-d4,I
n-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 6M169560.D **Instrument:** GCMS 6

Cont Calibration Date/Time 6/16/2023 9:28:00 A Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.12	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.65	73.57	50	20	0.1	0.186	0.273	47.14	C1
Dichlorodifluoromethane	1	0		1.64	59.25	50	20	0.1	0.155	0.184	18.49	
Chloromethane	1	0		1.81	71.94	50	20	0.1	0.252	0.362	43.87	C1
Bromomethane	1	0		2.23	35.74	50	20	0.1	0.126	0.090	28.52	C1
Vinyl Chloride	1	0		1.92	58.35	50	20	0.1	0.202	0.236	16.71	
Chloroethane	1	0		2.32	55.96	50	20	0.1	0.137	0.153	11.93	
Trichlorofluoromethane	1	0		2.55	54.99	50	20	0.1	0.250	0.275	9.98	
Ethyl ether	1	0		2.79	51.57	50	20	0.5	0.177	0.182	3.14	
Furan	1	0		2.84	57.97	50	20	0.5	0.267	0.309	15.93	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		3.01	55.07	50	20	0.1	0.141	0.156	10.14	
Methylene Chloride	1	0		3.42	56.69	50	20	0.1	0.217	0.246	13.38	
Acrolein	1	0		2.91	180.09	250	20		0.039	0.028	27.96	C1
Acrylonitrile	1	0		3.62	44.74	50	20		0.083	0.074	10.52	
Iodomethane	1	0		3.15	8.10	50	20		0.125	0.021	83.79	C1
Acetone	1	0		3.04	213.66	250	20	0.1	0.069	0.052	14.54	
Carbon Disulfide	1	0		3.22	59.71	50	20	0.1	0.458	0.547	19.42	
t-Butyl Alcohol	1	0		3.48	211.50	250	20		0.024	0.020	15.40	
n-Hexane	1	0		3.90	54.11	50	20		0.185	0.201	8.23	
Di-isopropyl-ether	1	0		4.05	53.37	50	20		0.522	0.557	6.73	
1,1-Dichloroethene	1	0		3.01	59.96	50	20	0.1	0.236	0.283	19.92	
Methyl Acetate	1	0		3.32	45.05	50	20	0.1	0.185	0.167	9.89	
Methyl-t-butyl ether	1	0		3.66	47.28	50	20	0.1	0.459	0.434	5.43	
1,1-Dichloroethane	1	0		4.01	58.20	50	20	0.2	0.327	0.381	16.39	
trans-1,2-Dichloroethene	1	0		3.67	59.37	50	20	0.1	0.177	0.210	18.74	
Ethyl-t-butyl ether	1	0		4.05	52.88	50	20	0.5	0.066	0.070	5.76	
cis-1,2-Dichloroethene	1	0		4.42	54.59	50	20	0.1	0.329	0.359	9.17	
Bromochloromethane	1	0		4.58	50.03	50	20		0.169	0.169	0.06	
2,2-Dichloropropane	1	0		4.43	55.24	50	20		0.225	0.249	10.49	
Ethyl acetate	1	0		4.45	41.71	50	20		0.220	0.184	16.58	
1,4-Dioxane	1	0		5.51	2124.76	2500	20		0.003	0.003	15.01	
1,1-Dichloropropene	1	0		4.84	59.29	50	20		0.235	0.279	18.58	
Chloroform	1	0		4.62	53.62	50	20	0.2	0.366	0.393	7.23	
Dibromofluoromethane	1	0	S	4.71	31.83	75	**		0.270	0.286	6.09	
Cyclohexane	1	0		4.79	57.27	50	20	0.1	0.221	0.254	14.55	
1,2-Dichloroethane-d4	1	0	S	4.92	28.37	75	**		0.142	0.135	5.43	
1,2-Dichloroethane	1	0		4.96	47.31	50	20	0.1	0.284	0.269	5.37	
2-Butanone	1	0		4.42	40.56	50	20	0.1	0.104	0.084	18.88	
1,1,1-Trichloroethane	1	0		4.75	58.04	50	20	0.1	0.264	0.306	16.08	
Carbon Tetrachloride	1	0		4.85	58.60	50	20	0.1	0.233	0.273	17.19	
Vinyl Acetate	1	0		4.04	49.87	50	20		0.497	0.496	0.26	
Bromodichloromethane	1	0		5.58	50.26	50	20	0.2	0.297	0.299	0.52	
Methylcyclohexane	1	0		5.44	57.49	50	20	0.1	0.247	0.284	14.98	
Dibromomethane	1	0		5.51	48.34	50	20		0.153	0.148	3.32	
1,2-Dichloropropane	1	0		5.45	54.11	50	20	0.1	0.211	0.228	8.21	
Trichloroethene	1	0		5.32	55.50	50	20	0.2	0.202	0.225	11.01	
Benzene	1	0		4.96	58.71	50	20	0.5	0.760	0.892	17.41	
tert-Amyl methyl ether	1	0		5.01	51.10	50	20		0.430	0.439	2.20	
Chlorobenzene-d5	1	0	I	6.75	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.96	41.33	50	20	0.5	0.512	0.423	17.35	
Methyl methacrylate	1	0		5.47	47.26	50	20	0.5	0.238	0.225	5.48	
Dibromochloromethane	1	0		6.43	41.95	50	20	0.1	0.339	0.284	16.10	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 6M169560.D **Instrument:** GCMS 6

Cont Calibration Date/Time 6/16/2023 9:28:00 A Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.72	190.59	50	20		0.002	0.007	281.18	C1
cis-1,3-Dichloropropene	1	0		5.82	41.33	50	20	0.2	0.447	0.370	17.35	
trans-1,3-Dichloropropene	1	0		6.10	42.49	50	20	0.1	0.408	0.347	15.03	
Ethyl methacrylate	1	0		6.12	40.72	50	20	0.5	0.258	0.210	18.57	
1,1,2-Trichloroethane	1	0		6.21	42.49	50	20	0.1	0.284	0.241	15.02	
1,2-Dibromoethane	1	0		6.51	43.73	50	20	0.1	0.300	0.262	12.54	
1,3-Dichloropropane	1	0		6.30	43.11	50	20		0.479	0.413	13.78	
4-Methyl-2-Pentanone	1	0		5.89	40.88	50	20	0.1	0.275	0.225	18.23	
2-Hexanone	1	0		6.32	40.38	50	20	0.1	0.205	0.165	19.23	
Tetrachloroethene	1	0		6.31	49.56	50	20	0.2	0.205	0.204	0.88	
Toluene-d8	1	0	S	5.97	28.73	75	**		1.302	1.247	4.22	
Toluene	1	0		6.01	47.81	50	20	0.4	0.667	0.638	4.37	
1,1,1,2-Tetrachloroethane	1	0		6.80	43.27	50	20		0.279	0.241	13.46	
Chlorobenzene	1	0		6.77	44.32	50	20	0.5	0.768	0.681	11.36	
1,4-Dichlorobenzene-d4	1	0	I	8.04	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.01	42.31	50	20	0.5	0.948	0.802	15.38	
n-Amyl acetate	1	0		7.12	42.21	50	20	0.5	0.847	0.715	15.59	
Bromoform	1	0		7.21	35.98	50	20	0.1	0.461	0.331	28.05	C1
Ethylbenzene	1	0		6.81	41.64	50	20	0.1	0.556	0.463	16.72	
1,1,2,2-Tetrachloroethane	1	0		7.43	40.08	50	20	0.1	0.768	0.616	19.84	
Bromofluorobenzene	1	0	S	7.38	30.06	75	**		0.746	0.747	0.19	
Styrene	1	0		7.09	41.88	50	20	0.3	1.434	1.201	16.24	
m&p-Xylenes	1	0		6.87	90.68	100	20	0.1	0.828	0.751	9.32	
o-Xylene	1	0		7.09	43.99	50	20	0.3	0.862	0.758	12.02	
trans-1,4-Dichloro-2-butene	1	0		7.46	31.06	50	20		0.253	0.157	37.87	C1
1,3-Dichlorobenzene	1	0		8.01	39.28	50	20	0.6	1.105	0.868	21.44	C1
1,4-Dichlorobenzene	1	0		8.06	39.02	50	20	0.5	1.097	0.857	21.95	C1
1,2-Dichlorobenzene	1	0		8.27	37.60	50	20	0.4	1.094	0.823	24.79	C1
Isopropylbenzene	1	0		7.28	43.55	50	20	0.1	1.893	1.648	12.90	
Cyclohexanone	1	0		7.35	254.81	250	20		0.031	0.031	1.93	
Camphene	1	0		7.46	47.15	50	20		0.655	0.618	5.69	
1,2,3-Trichloropropane	1	0		7.47	35.71	50	20		0.862	0.615	28.58	C1
2-Chlorotoluene	1	0		7.58	43.49	50	20		1.354	1.177	13.02	
p-Ethyltoluene	1	0		7.57	44.25	50	20		2.003	1.772	11.51	
4-Chlorotoluene	1	0		7.63	45.57	50	20		1.268	1.155	8.87	
n-Propylbenzene	1	0		7.51	47.66	50	20		2.264	2.158	4.69	
Bromobenzene	1	0		7.48	40.67	50	20		1.460	1.188	18.67	
1,3,5-Trimethylbenzene	1	0		7.60	48.06	50	20		1.550	1.490	3.89	
Butyl methacrylate	1	0		7.60	49.29	50	20	0.5	0.602	0.593	1.43	
t-Butylbenzene	1	0		7.79	44.30	50	20		1.610	1.427	11.41	
1,2,4-Trimethylbenzene	1	0		7.82	42.82	50	20		1.672	1.432	14.36	
sec-Butylbenzene	1	0		7.92	48.51	50	20		1.968	1.910	2.99	
4-Isopropyltoluene	1	0		7.99	37.30	50	20		2.090	1.559	25.39	C1
n-Butylbenzene	1	0		8.23	46.47	50	20		1.860	1.729	7.06	
p-Diethylbenzene	1	0		8.21	43.38	50	20		0.977	0.848	13.24	
1,2,4,5-Tetramethylbenzene	1	0		8.67	28.43	50	20		1.409	0.929	43.14	C1
1,2-Dibromo-3-Chloropropane	1	0		8.73	30.88	50	20	0.05	0.180	0.111	38.23	C1
Camphor	1	0		9.17	269.37	500	20		0.069	0.037	46.13	C1
Hexachlorobutadiene	1	0		9.31	42.61	50	20		0.328	0.280	14.79	
1,2,4-Trichlorobenzene	1	0		9.22	35.26	50	20	0.2	0.684	0.482	29.49	C1
1,2,3-Trichlorobenzene	1	0		9.52	33.79	50	20		0.667	0.451	32.43	C1
Naphthalene	1	0		9.38	31.22	50	20		1.864	1.164	37.57	C1

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Quantitation Report (QT Reviewed)

SampleID : CAL @ 50 PPB Operator : WP Qt Meth : 6M_S0510.M
Data File: 6M169560.D Sam Mult : 1 Vial# : 5 Qt On : 06/16/23 10:10
Acq On : 06/16/23 09:28 Misc : S,5G:.4 Qt Upd On: 05/11/23 10:47

Data Path : G:\GcMsData\2023\GCMS_6\Data\06-16-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.117	96	442839	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.751	117	359775	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.037	152	205933	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.715	111	126605	31.83	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.10%			
39) 1,2-Dichloroethane-d4	4.922	67	59613	28.37	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.57%			
66) Toluene-d8	5.971	98	448692	28.73	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.77%			
76) Bromofluorobenzene	7.379	174	153843	30.06	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.20%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.648	51	201478	73.5692	ug/l	67
6) Dichlorodifluoromethane	1.636	85	135949m	59.2465	ug/l	
7) Chloromethane	1.807	50	267322	71.9359	ug/l	97
8) Bromomethane	2.227	94	66373	35.7383	ug/l	94
9) Vinyl Chloride	1.916	62	174223m	58.3534	ug/l	
10) Chloroethane	2.319	64	112782	55.9642	ug/l	88
11) Trichlorofluoromethane	2.550	101	203237	54.9914	ug/l	98
12) Ethyl ether	2.794	59	134551	51.5678	ug/l	91
13) Furan	2.837	39	228413	57.9651	ug/l	93
14) 1,1,2-Trichloro-1,2,2-...	3.008	101	114813	55.0715	ug/l	99
15) Methylene Chloride	3.422	84	181343	56.6888	ug/l	79
16) Acrolein	2.910	56	102776	180.0925	ug/l	99
17) Acrylonitrile	3.623	53	54596	44.7417	ug/l	81
18) Iodomethane	3.154	142	15728	8.1046	ug/l	97
19) Acetone	3.038	43	191062	213.6600	ug/l	94
20) Carbon Disulfide	3.221	76	403792m	59.7111	ug/l	
21) t-Butyl Alcohol	3.483	59	73465	211.5021	ug/l	82
22) n-Hexane	3.904	57	148028	54.1132	ug/l	94
23) Di-isopropyl-ether	4.050	45	411451	53.3671	ug/l	88
24) 1,1-Dichloroethene	3.008	61	208715	59.9623	ug/l	99
25) Methyl Acetate	3.325	43	123106	45.0544	ug/l	100
26) Methyl-t-butyl ether	3.660	73	320566	47.2846	ug/l	91
27) 1,1-Dichloroethane	4.014	63	281268	58.1972	ug/l	96
28) trans-1,2-Dichloroethene	3.666	96	154910m	59.3686	ug/l	
29) Ethyl-t-butyl ether	4.050	59	51461m	52.8800	ug/l	
30) cis-1,2-Dichloroethene	4.422	61	265092	54.5857	ug/l	91
31) Bromochloromethane	4.581	49	124782	50.0284	ug/l	81
32) 2,2-Dichloropropane	4.434	77	183735	55.2446	ug/l	98
33) Ethyl acetate	4.452	43	135749	41.7095	ug/l	100
34) 1,4-Dioxane	5.507	88	98889	2124.7576	ug/l	83
35) 1,1-Dichloropropene	4.843	75	206099	59.2921	ug/l	93
36) Chloroform	4.617	83	290016	53.6165	ug/l	95
38) Cyclohexane	4.794	56	187184	57.2744	ug/l	88
40) 1,2-Dichloroethane	4.965	62	198315	47.3146	ug/l	97
41) 2-Butanone	4.422	43	62056	40.5621	ug/l	97
42) 1,1,1-Trichloroethane	4.751	97	226090	58.0391	ug/l	99
43) Carbon Tetrachloride	4.855	117	201719	58.5954	ug/l	94
44) Vinyl Acetate	4.044	43	366028	49.8699	ug/l	100
45) Bromodichloromethane	5.580	83	220459	50.2589	ug/l	98
46) Methylcyclohexane	5.440	83	209913	57.4900	ug/l	89
47) Dibromomethane	5.513	174	109086	48.3408	ug/l	96
48) 1,2-Dichloropropane	5.446	63	168208	54.1074	ug/l	99
49) Trichloroethene	5.318	130	165810	55.5040	ug/l	99
50) Benzene	4.965	78	658246	58.7061	ug/l	100
51) tert-Amyl methyl ether	5.013	73	324227	51.1006	ug/l	87
53) Iso-propylacetate	4.965	43	253801m	41.3270	ug/l	
54) Methyl methacrylate	5.471	41	134716	47.2617	ug/l	84
55) Dibromochloromethane	6.434	129	170433	41.9479	ug/l	97
56) 2-Chloroethylvinylether	5.721	63	4231	190.5920	ug/l	91
57) cis-1,3-Dichloropropene	5.818	75	221667	41.3268	ug/l	98
58) trans-1,3-Dichloropropene	6.099	75	208031m	42.4864	ug/l	
59) Ethyl methacrylate	6.123	41	125747m	40.7157	ug/l	
60) 1,1,2-Trichloroethane	6.208	97	144708	42.4894	ug/l	97
61) 1,2-Dibromoethane	6.507	107	157164m	43.7280	ug/l	
62) 1,3-Dichloropropane	6.300	76	247489	43.1101	ug/l	99
63) 4-Methyl-2-Pentanone	5.885	43	134836m	40.8837	ug/l	
64) 2-Hexanone	6.318	43	99145m	40.3843	ug/l	
65) Tetrachloroethene	6.312	164	122068	49.5594	ug/l	95
67) Toluene	6.007	92	382485	47.8135	ug/l	99

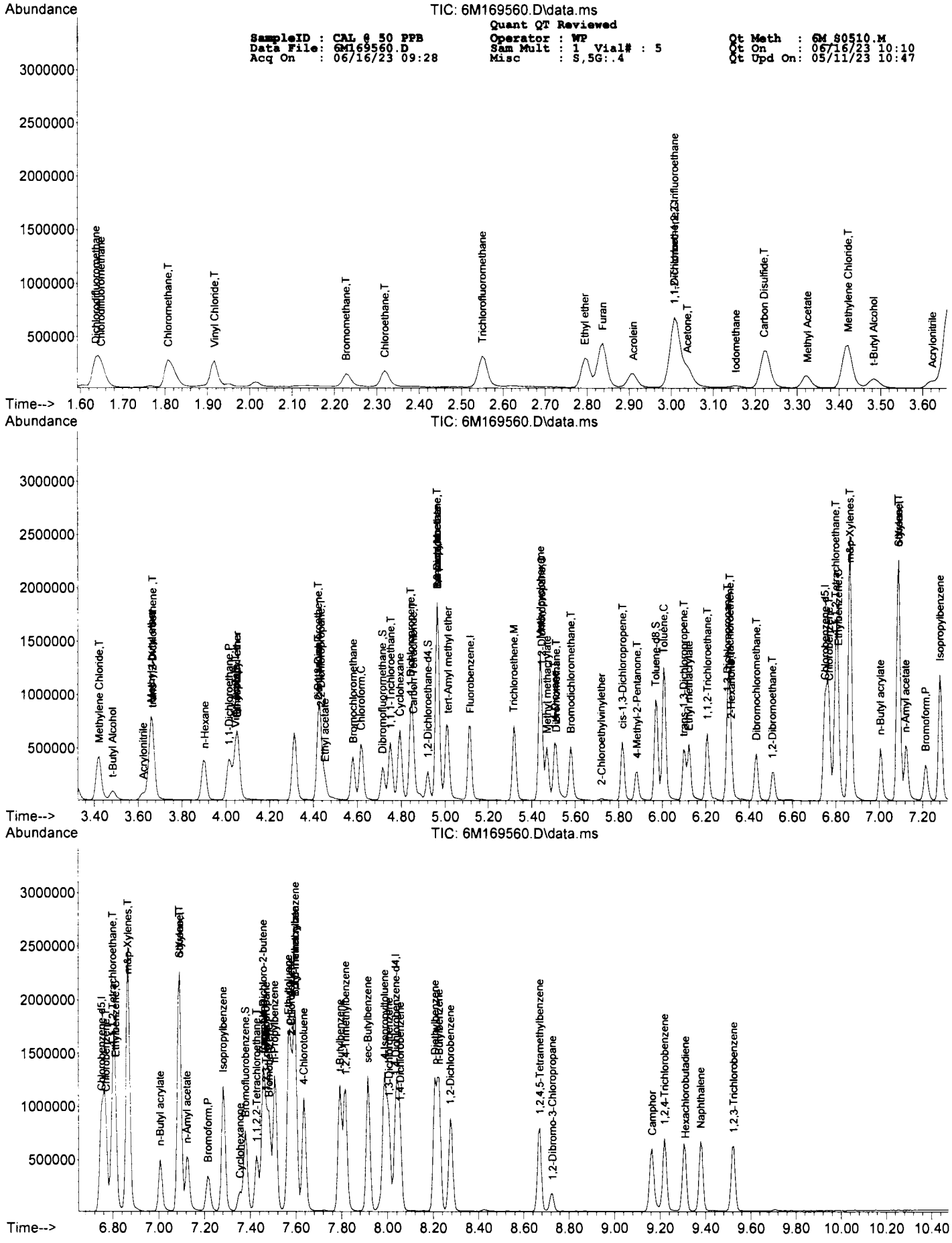
Quantitation Report (QT Reviewed)

SampleID : CAL @ 50 PPB Operator : WP Qt Meth : 6M_S0510.M
Data File: 6M169560.D Sam Mult : 1 Vial# : 5 Qt On : 06/16/23 10:10
Acq On : 06/16/23 09:28 **Misc : S,5G:.4** **Qt Upd On: 05/11/23 10:47**

Data Path : G:\GcMsData\2023\GCMS_6\Data\06-16-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,1,1,2-Tetrachloroethane	6.800	133	144553	43.2716	ug/l	97
69) Chlorobenzene	6.769	112	408457	44.3197	ug/l	100
71) n-Butyl acrylate	7.007	55	275381m	42.3083	ug/l	
72) n-Amyl acetate	7.123	43	245507m	42.2055	ug/l	
73) Bromoform	7.214	173	113765	35.9750	ug/l	95
74) Ethylbenzene	6.812	106	158962	41.6396	ug/l	95
75) 1,1,2,2-Tetrachloroethane	7.428	83	211280m	40.0813	ug/l	
77) Styrene	7.092	104	412174	41.8787	ug/l	99
78) m&p-Xylenes	6.867	106	515208	90.6823	ug/l	98
79) o-Xylene	7.092	106	260302	43.9907	ug/l	99
80) trans-1,4-Dichloro-2-b...	7.458	53	53923	31.0649	ug/l	92
81) 1,3-Dichlorobenzene	8.007	146	297996	39.2805	ug/l	99
82) 1,4-Dichlorobenzene	8.056	146	293982	39.0248	ug/l	98
83) 1,2-Dichlorobenzene	8.275	146	282327	37.6031	ug/l	98
84) Isopropylbenzene	7.281	105	565796	43.5487	ug/l	99
85) Cyclohexanone	7.354	55	53465	254.8140	ug/l	95
86) Camphene	7.458	93	212116	47.1546	ug/l	98
87) 1,2,3-Trichloropropane	7.470	75	211207	35.7079	ug/l	99
88) 2-Chlorotoluene	7.580	91	404083	43.4909	ug/l	99
89) p-Ethyltoluene	7.568	105	608233	44.2457	ug/l	96
90) 4-Chlorotoluene	7.635	91	396475	45.5652	ug/l	96
91) n-Propylbenzene	7.507	91	740714	47.6556	ug/l	98
92) Bromobenzene	7.482	77	407586	40.6652	ug/l	97
93) 1,3,5-Trimethylbenzene	7.598	105	511361	48.0569	ug/l	90
94) Butyl methacrylate	7.598	41	203541m	49.2865	ug/l	
95) t-Butylbenzene	7.793	119	489693	44.2967	ug/l	100
96) 1,2,4-Trimethylbenzene	7.818	105	491462	42.8193	ug/l	98
97) sec-Butylbenzene	7.915	105	655394	48.5056	ug/l	98
98) 4-Isopropyltoluene	7.988	119	535214m	37.3039	ug/l	
99) n-Butylbenzene	8.226	91	593388	46.4706	ug/l	97
100) p-Diethylbenzene	8.208	119	290978	43.3818	ug/l	97
101) 1,2,4,5-Tetramethylben...	8.671	119	318891	28.4294	ug/l	100
102) 1,2-Dibromo-3-Chloropr...	8.726	157	38064	30.8826	ug/l	91
103) Camphor	9.165	95	127766	269.3651	ug/l	100
104) Hexachlorobutadiene	9.311	225	96069	42.6054	ug/l	99
105) 1,2,4-Trichlorobenzene	9.220	180	165546	35.2563	ug/l	98
106) 1,2,3-Trichlorobenzene	9.525	180	154749	33.7856	ug/l	98
107) Naphthalene	9.378	128	399475	31.2162	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M169560.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 50 PPB
Data File: 6M169560.D
Acq On : 06/16/23 09:28
Operator : WP
Sam Mult : 1 Vial# : 5
Misc : S,5G:.4
Qt Meth : 6M_S0510.M
Qt On : 06/16/23 10:10
Qt Upd On: 05/11/23 10:47
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
Time-->

Abundance
TIC: 6M169560.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Ethyl acetate
Bromochloromethane
Chloroform,C
Dibromofluoromethane,S
1,1,1-Trichloroethane,T
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
Ethyl Methacrylate
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Time-->

Abundance
TIC: 6M169560.D\data.ms
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
4-Chlorotoluene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

GC/MS Volatile Data
Raw QC Data

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 6
Data File: 6M167848.D
Analysis Date: 05/10/23 01:41
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.367 to 7.391 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	16.9	6437	PASS
75	95	30	60	49.0	18663	PASS
95	95	100	100	100.0	38058	PASS
96	95	5	9	6.7	2568	PASS
173	174	0.00	2	0.7	225	PASS
174	95	50	100	88.1	33527	PASS
175	174	5	9	7.8	2608	PASS
176	174	95	101	95.2	31905	PASS
177	176	5	9	6.8	2168	PASS

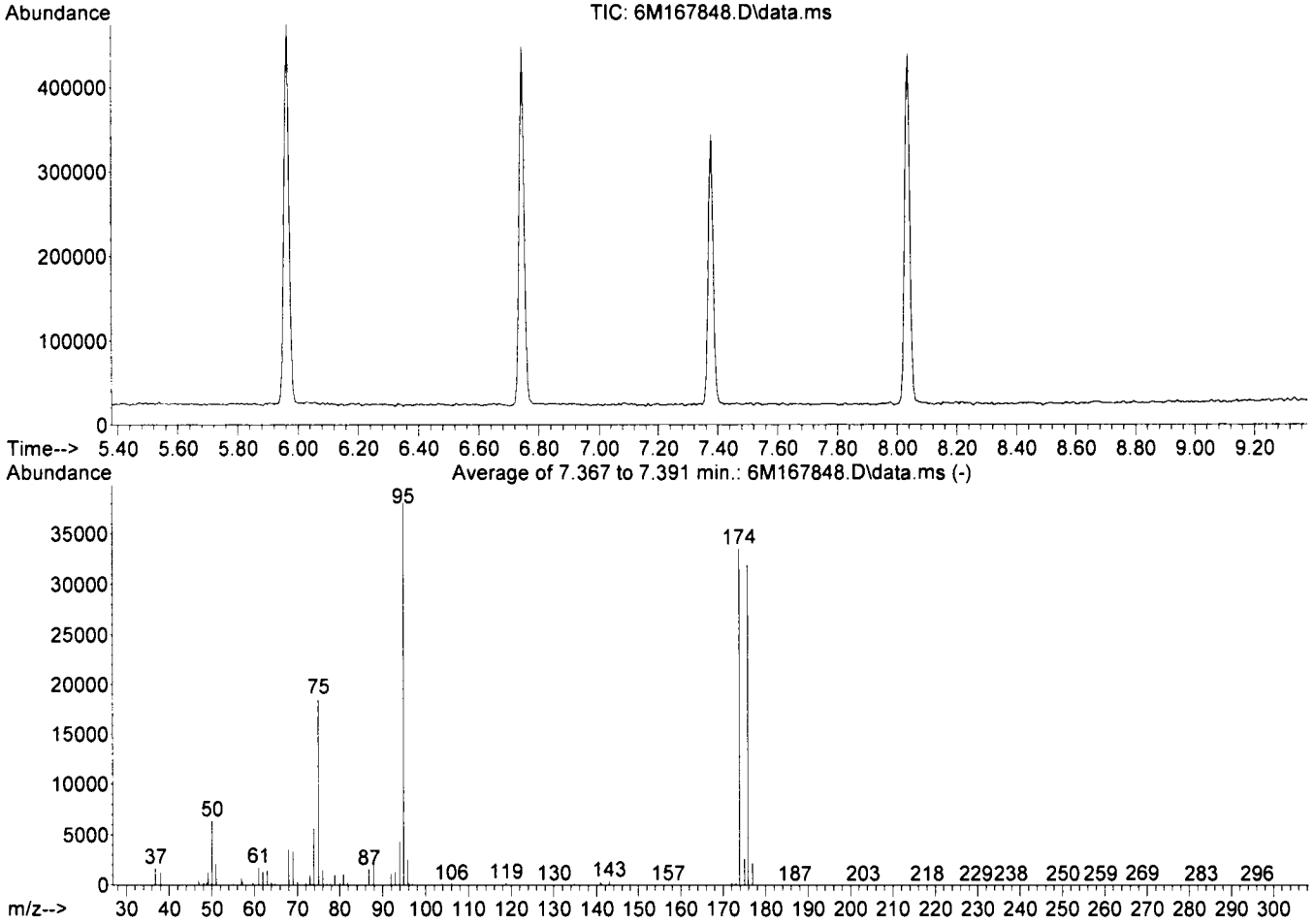
Data File	Sample Number	Analysis Date:
6M167849.D	BLK	05/10/23 01:56
6M167853.D	CAL @ 0.5 PPB	05/10/23 03:10
6M167854.D	CAL @ 1 PPB	05/10/23 03:32
6M167855.D	CAL @ 5 PPB	05/10/23 03:54
6M167856.D	CAL @ 2 PPB	05/10/23 04:16
6M167857.D	CAL @20 PPB	05/10/23 04:38
6M167858.D	CAL @ 50 PPB	05/10/23 05:00
6M167859.D	CAL @ 100 PPB	05/10/23 05:21
6M167860.D	CAL @ 250PPB	05/10/23 05:43
6M167862.D	CAL @ 500 PPB	05/10/23 06:27
6M167867.D	ICV	05/10/23 08:17

CLPBFB

Data Path : G:\GcMsData\2023\GCMS_6\Data\0510-23\
Data File : 6M167848.D
Acq On : 10 May 2023 01:41
Operator : WP
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 9 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2023\GCMS_6\MethodQt\6M_S0317.M
Title : @GCMS_6,ug,624,8260
Last Update : Mon Mar 20 12:35:45 2023



Spectrum Information: Average of 7.367 to 7.391 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.9	6437	PASS
75	95	30	60	49.0	18663	PASS
95	95	100	100	100.0	38058	PASS
96	95	5	9	6.7	2568	PASS
173	174	0.00	2	0.7	225	PASS
174	95	50	100	88.1	33527	PASS
175	174	5	9	7.8	2608	PASS
176	174	95	101	95.2	31905	PASS
177	176	5	9	6.8	2168	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 2
Data File: 2M185175.D
Analysis Date: 05/26/23 20:59
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.342 to 7.385 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	19.0	6968	PASS
75	95	30	60	49.1	17994	PASS
95	95	100	100	100.0	36674	PASS
96	95	5	9	6.7	2441	PASS
173	174	0.00	2	0.6	215	PASS
174	95	50	100	98.8	36219	PASS
175	174	5	9	7.3	2644	PASS
176	174	95	101	96.6	34978	PASS
177	176	5	9	6.4	2240	PASS

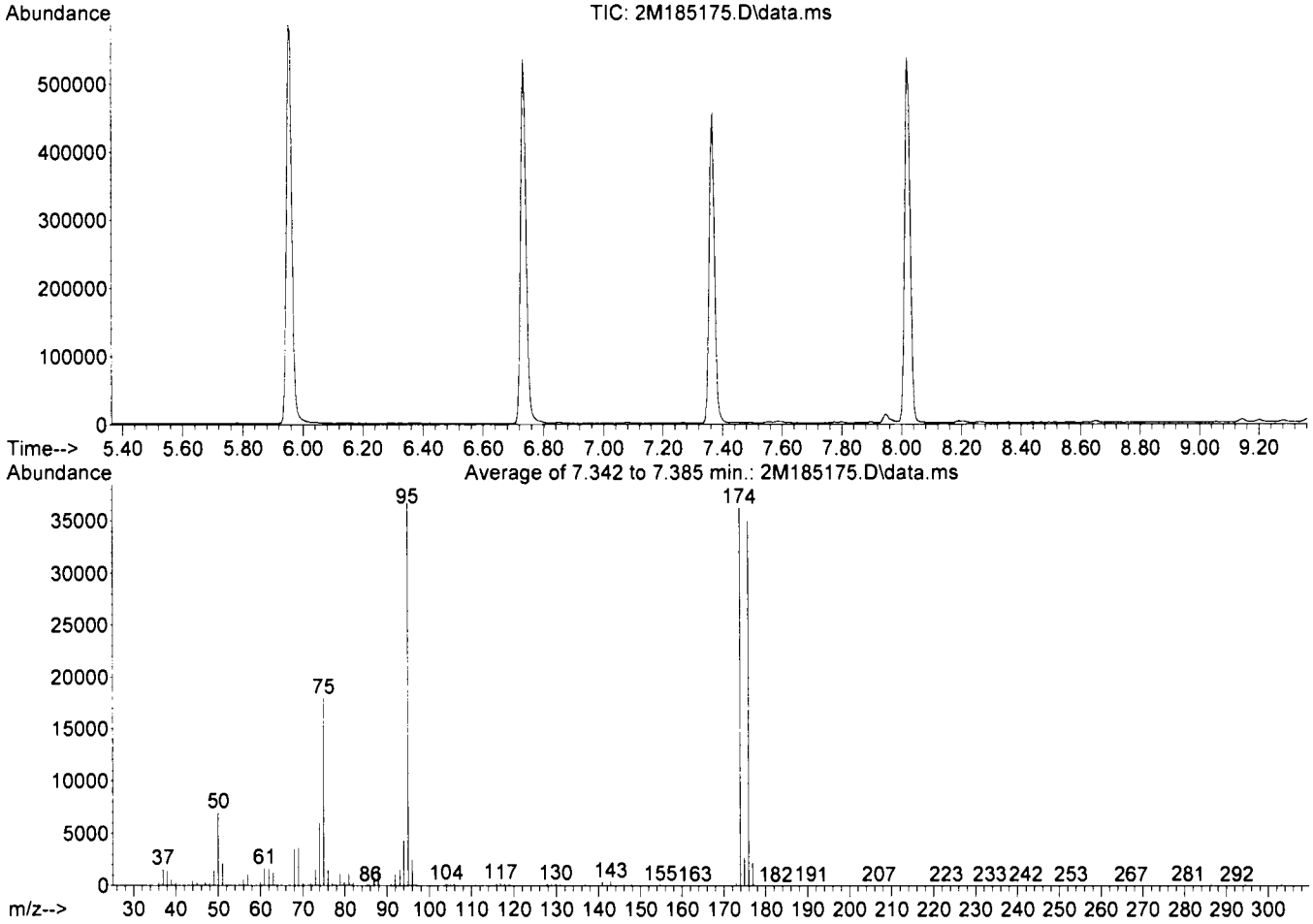
Data File	Sample Number	Analysis Date:
2M185176.D	CAL @ 0.5 PPB	05/26/23 21:19
2M185177.D	CAL @1 PPB	05/26/23 21:39
2M185178.D	CAL @ 5 PPB	05/26/23 21:59
2M185179.D	CAL @10 PPB	05/26/23 22:19
2M185180.D	CAL @ 20 PPB	05/26/23 22:39
2M185181.D	CAL @ 50 PPB	05/26/23 22:59
2M185182.D	CAL @100 PPB	05/26/23 23:19
2M185183.D	CAL @250 PPB	05/26/23 23:39
2M185184.D	CAL @500 PPB	05/26/23 23:59
2M185189.D	ICV	05/27/23 01:39

CLPBFB

Data Path : G:\GcMsData\2023\GCMS_2\Data\05-26-23\
Data File : 2M185175.D
Acq On : 26 May 2023 20:59
Operator : WP
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 32 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2023\GCMS_2\MethodQt\2M_A0426.M
Title : @GCMS_2,ug,624,8260
Last Update : Wed Apr 26 12:13:04 2023



Spectrum Information: Average of 7.342 to 7.385 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.0	6968	PASS
75	95	30	60	49.1	17994	PASS
95	95	100	100	100.0	36674	PASS
96	95	5	9	6.7	2441	PASS
173	174	0.00	2	0.6	215	PASS
174	95	50	100	98.8	36219	PASS
175	174	5	9	7.3	2644	PASS
176	174	95	101	96.6	34978	PASS
177	176	5	9	6.4	2240	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 2
Data File: 2M186035.D
Analysis Date: 06/15/23 18:26
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.348 to 7.354 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	16.5	5361	PASS
75	95	30	60	50.2	16334	PASS
95	95	100	100	100.0	32548	PASS
96	95	5	9	6.0	1954	PASS
173	174	0.00	2	1.0	238	PASS
174	95	50	100	73.9	24042	PASS
175	174	5	9	7.0	1677	PASS
176	174	95	101	96.5	23200	PASS
177	176	5	9	7.1	1657	PASS

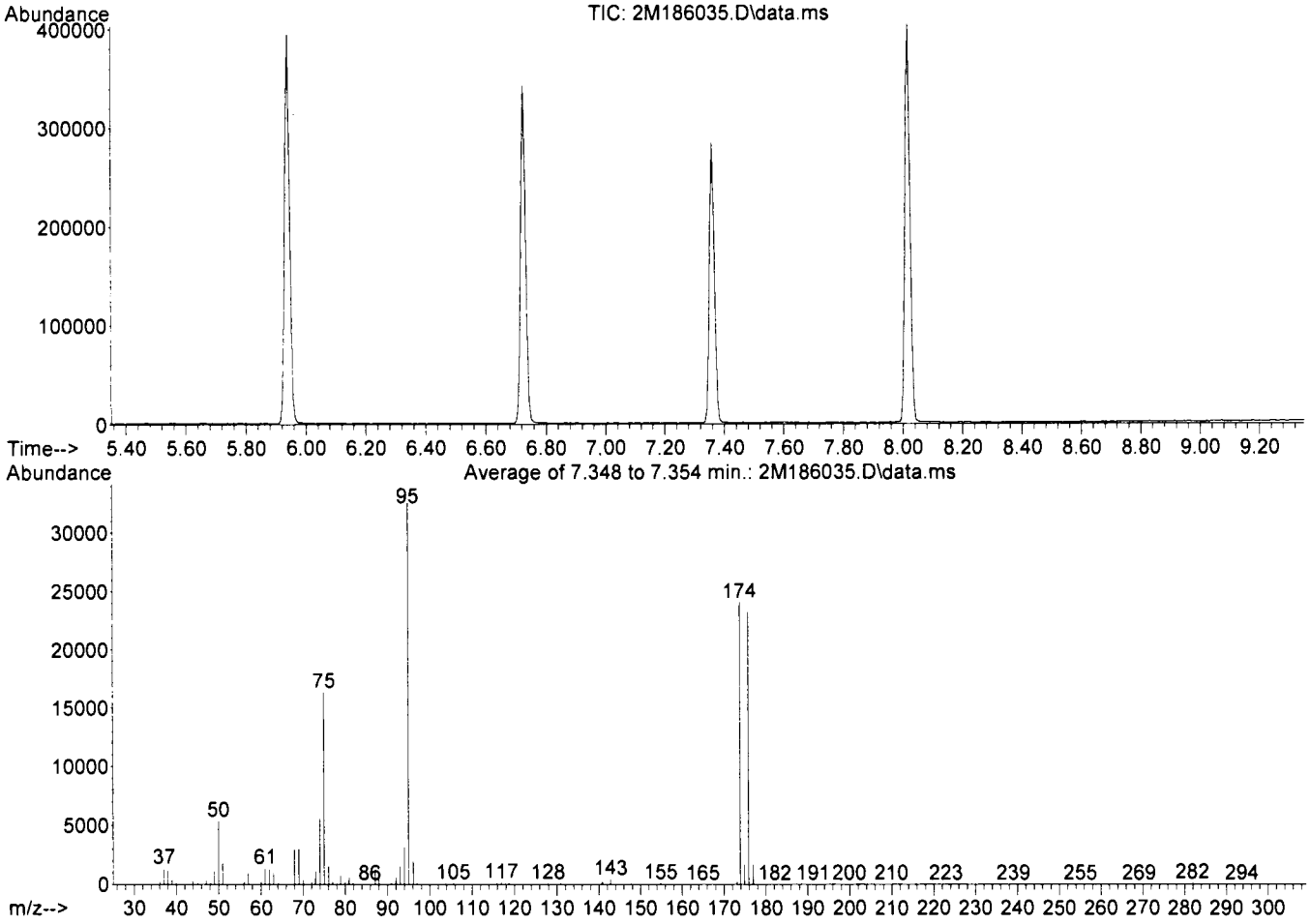
Data File	Sample Number	Analysis Date:
2M186037.D	20 PPB	06/15/23 19:01
2M186038.D	CAL @ 20 PPB	06/15/23 19:21
2M186039.D	BLK	06/15/23 19:41
2M186040.D	BLK	06/15/23 20:01
2M186041.D	DAILY BLANK	06/15/23 20:21
2M186042.D	DAILY BLANK	06/15/23 20:41
2M186043.D	MBS109428	06/15/23 21:15
2M186044.D	MBS109429	06/15/23 21:35
2M186045.D	MBS109430	06/15/23 21:55
2M186046.D	AD38445-001(50X)	06/15/23 22:15
2M186047.D	AD38445-001(50X)	06/15/23 22:36
2M186048.D	AD38445-001(50X)	06/15/23 22:55
2M186049.D	AD38586-005	06/15/23 23:15
2M186050.D	AD38586-006	06/15/23 23:35
2M186051.D	AD38572-001	06/15/23 23:56
2M186052.D	AD38616-005	06/16/23 00:22
2M186053.D	AD38616-006	06/16/23 00:42
2M186054.D	AD38616-007	06/16/23 01:03
2M186055.D	AD38590-042	06/16/23 01:23
2M186056.D	AD38616-007	06/16/23 01:43
2M186057.D	AD38616-006	06/16/23 02:03
2M186058.D	BLK	06/16/23 02:23
2M186059.D	AD38616-004(20X)	06/16/23 02:43
2M186060.D	38590-044	06/16/23 03:03
2M186061.D	AD38616-003(20X)	06/16/23 03:23
2M186062.D	38590-046	06/16/23 03:43
2M186063.D	AD38616-002(20X)	06/16/23 04:03
2M186064.D	38590-048	06/16/23 04:23
2M186065.D	AD38616-001(200X	06/16/23 04:43
2M186066.D	38590-050	06/16/23 05:03
2M186067.D	38590-052	06/16/23 05:23
2M186068.D	AD38616-009(20X)	06/16/23 05:43
2M186069.D	38590-054	06/16/23 06:03
2M186070.D	AD38616-008(200X	06/16/23 06:23
2M186071.D	38590-056	06/16/23 06:43
2M186072.D	38590-058	06/16/23 07:03

CLPBFB

Data Path : G:\GcMsData\2023\GCMS_2\Data\06-15-23\
Data File : 2M186035.D
Acq On : 15 Jun 2023 18:26
Operator : WP
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 5 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2023\GCMS_2\MethodQt\2M_A0526.M
Title : @GCMS_2,ug,624,8260
Last Update : Sat May 27 00:16:41 2023



Spectrum Information: Average of 7.348 to 7.354 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.5	5361	PASS
75	95	30	60	50.2	16334	PASS
95	95	100	100	100.0	32548	PASS
96	95	5	9	6.0	1954	PASS
173	174	0.00	2	1.0	238	PASS
174	95	50	100	73.9	24042	PASS
175	174	5	9	7.0	1677	PASS
176	174	95	101	96.5	23200	PASS
177	176	5	9	7.1	1657	PASS

Form 5

Tune Name: BFB TUNE **Data File:** 6M169559.D
Instrument: GCMS 6 **Analysis Date:** 06/16/23 09:06
Method: EPA 8260D
Tune Scan/Time Range: Average of 7.367 to 7.373 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	18.7	10328	PASS
75	95	30	60	49.7	27391	PASS
95	95	100	100	100.0	55120	PASS
96	95	5	9	7.4	4095	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	63.0	34708	PASS
175	174	5	9	8.0	2764	PASS
176	174	95	101	98.9	34322	PASS
177	176	5	9	7.8	2663	PASS

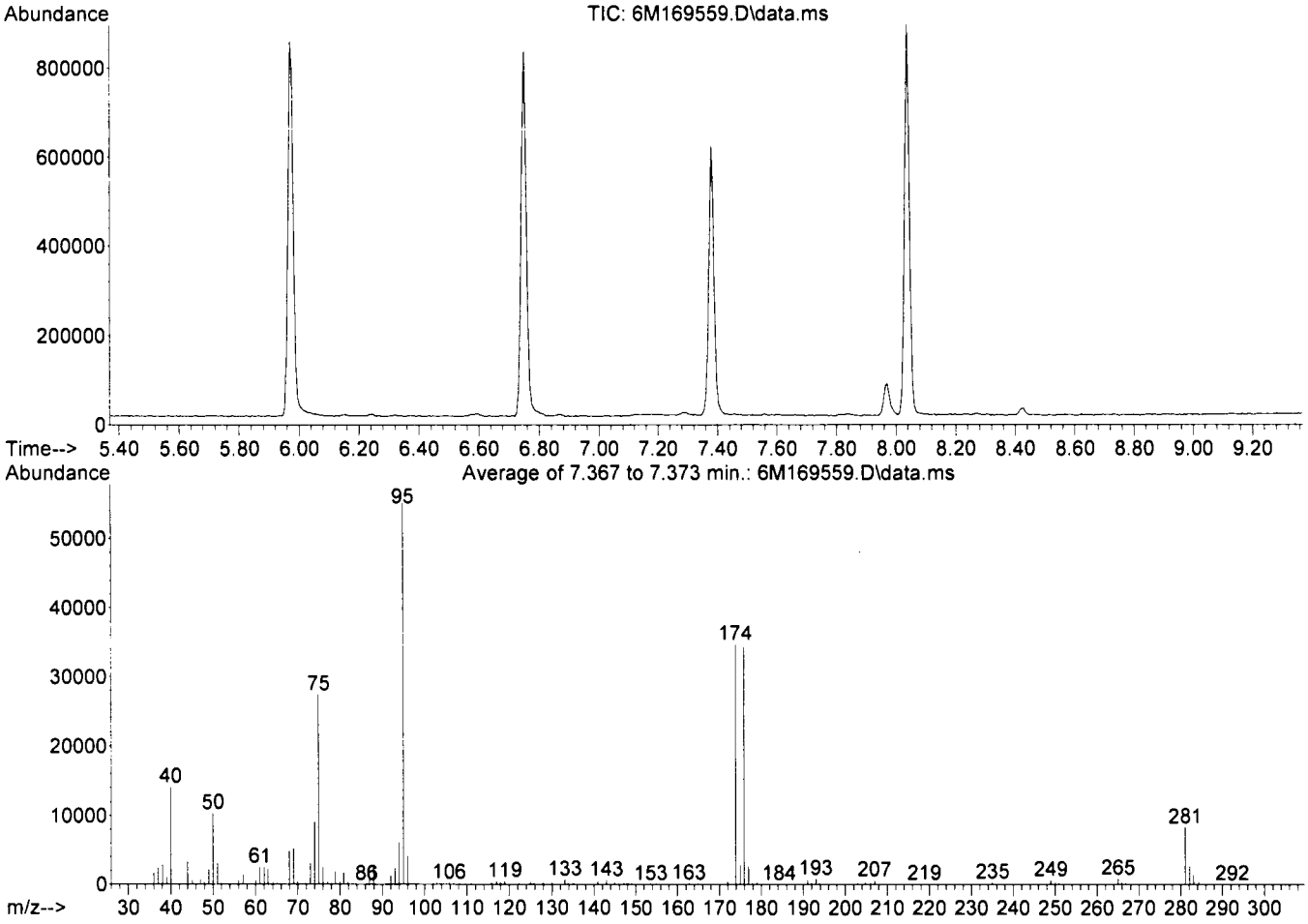
Data File	Sample Number	Analysis Date:
6M169560.D	CAL @ 50 PPB	06/16/23 09:28
6M169561.D	50 PPB	06/16/23 09:50
6M169562.D	BLK	06/16/23 10:12
6M169563.D	BLK	06/16/23 10:35
6M169564.D	BLK	06/16/23 10:57
6M169565.D	DAILY BLANK	06/16/23 11:19
6M169566.D	AD38586-001	06/16/23 11:41
6M169567.D	AD38586-002	06/16/23 12:03
6M169568.D	AD38586-003	06/16/23 12:25
6M169569.D	AD38586-004	06/16/23 12:48
6M169570.D	STD	06/16/23 13:10
6M169571.D	AD38586-007(MS:	06/16/23 13:32
6M169572.D	AD38586-008(MSD	06/16/23 13:54
6M169573.D	MBS110001	06/16/23 14:17
6M169574.D	BLK	06/16/23 14:39
6M169575.D	AD38590-002	06/16/23 15:01
6M169576.D	AD38590-004	06/16/23 15:23
6M169577.D	AD38590-006	06/16/23 15:45
6M169578.D	AD38590-008	06/16/23 16:08
6M169579.D	AD38590-010	06/16/23 16:30
6M169580.D	AD38590-012	06/16/23 16:52
6M169581.D	AD38590-014	06/16/23 17:14
6M169582.D	AD38590-016	06/16/23 17:36
6M169583.D	AD38590-018	06/16/23 17:59
6M169584.D	AD38590-020	06/16/23 18:21
6M169585.D	AD38590-022	06/16/23 18:43
6M169586.D	AD38590-024	06/16/23 19:05
6M169587.D	AD38555-022	06/16/23 19:27
6M169588.D	AD38555-018	06/16/23 19:49
6M169589.D	BLK	06/16/23 20:11
6M169590.D	AD38590-004	06/16/23 20:34
6M169591.D	AD38557-002	06/16/23 20:56

CLPBFB

Data Path : G:\GcMsData\2023\GCMS_6\Data\06-16-23\
Data File : 6M169559.D
Acq On : 16 Jun 2023 09:06
Operator : WP
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2023\GCMS_6\MethodQt\6M_S0510.M
Title : @GCMS_6,ug,624,8260
Last Update : Wed May 10 18:02:43 2023



Spectrum Information: Average of 7.367 to 7.373 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.7	10328	PASS
75	95	30	60	49.7	27391	PASS
95	95	100	100	100.0	55120	PASS
96	95	5	9	7.4	4095	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	63.0	34708	PASS
175	174	5	9	8.0	2764	PASS
176	174	95	101	98.9	34322	PASS
177	176	5	9	7.8	2663	PASS

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 2M186042.D
Analysis Date: 06/15/23 20:41
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	0.74	U
75-34-3	1,1-Dichloroethane	0.81	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	0.80	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	0.68	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.66	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	0.74	U	156-60-5	trans-1,2-Dichloroethene	0.68	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U

Worksheet #: 696297

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

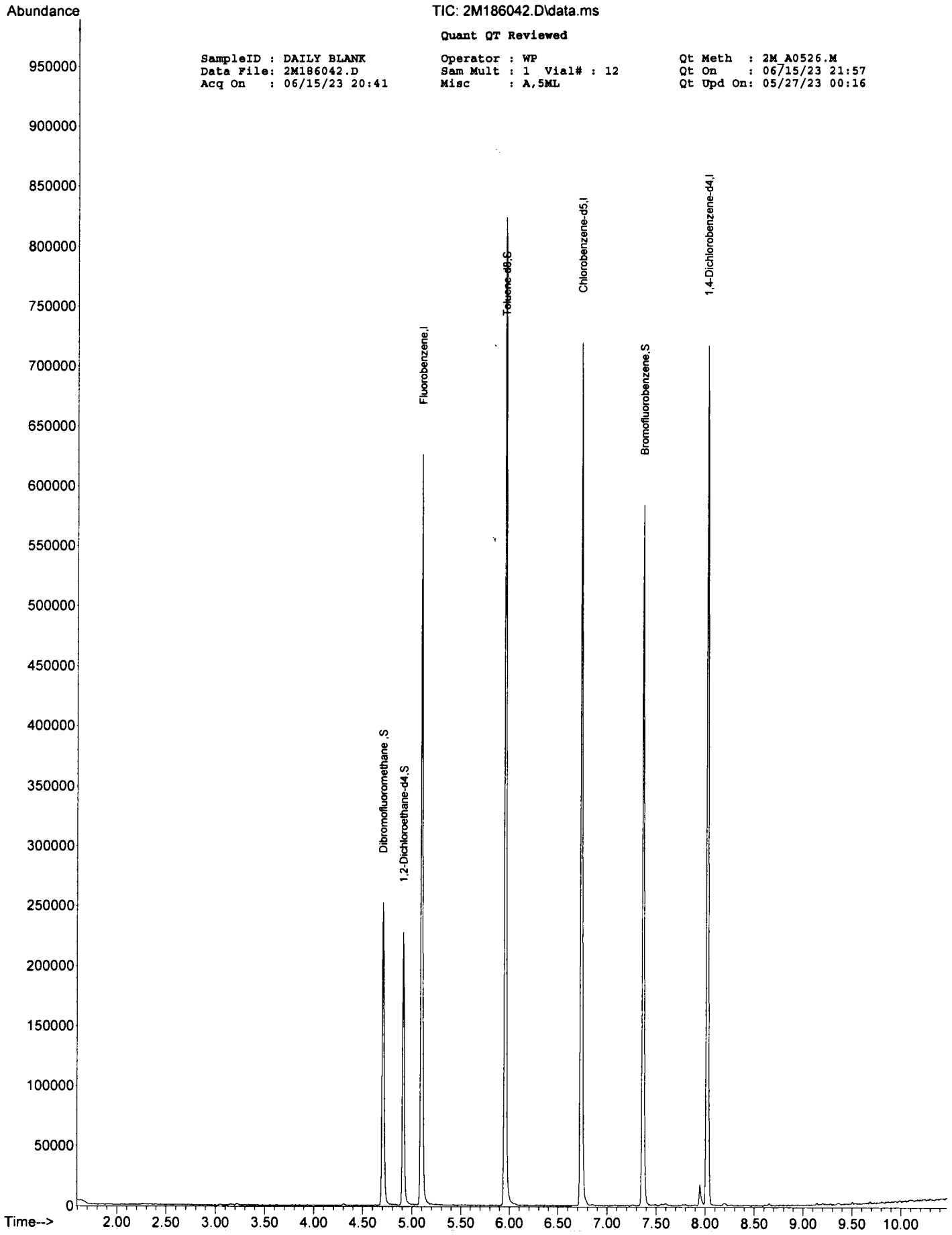
Quantitation Report (QT Reviewed)

SampleID : DAILY BLANK Operator : WP Qt Meth : 2M_A0526.M
Data File: 2M186042.D Sam Mult : 1 Vial# : 12 Qt On : 06/15/23 21:57
Acq On : 06/15/23 20:41 Misc : A,5ML Qt Upd On: 05/27/23 00:16

Data Path : G:\GcMsData\2023\GCMS_2\Data\06-15-23
Qt Path : G:\GcMsData\2023\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.099	96	405704	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.732	117	346123	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	165603	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.702	111	105413	28.28	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.27%			
39) 1,2-Dichloroethane-d4	4.910	67	58123	29.13	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.10%			
66) Toluene-d8	5.952	98	422298	29.93	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.77%			
76) Bromofluorobenzene	7.367	174	140686	29.15	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.17%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M186042.D\data.ms
Quant QT Reviewed
SampleID : DAILY BLANK
Data File: 2M186042.D
Acq On : 06/15/23 20:41
Operator : WP
Sam Mult : 1 Vial# : 12
Misc : A,5ML
Qt Meth : 2M_A0526.M
Qt On : 06/15/23 21:57
Qt Upd On: 05/27/23 00:16
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 6M169565.D
Analysis Date: 06/16/23 11:19
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5g
Final Vol: NA
Dilution: 1.00
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	56-23-5	Carbon Tetrachloride	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	U	75-00-3	Chloroethane	0.0020	U
79-00-5	1,1,2-Trichloroethane	0.0020	U	67-66-3	Chloroform	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	74-87-3	Chloromethane	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	156-59-2	cis-1,2-Dichloroethene	0.0020	U
87-61-6	1,2,3-Trichlorobenzene	0.0020	U	10061-01-5	cis-1,3-Dichloropropene	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	U	110-82-7	Cyclohexane	0.0020	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
106-93-4	1,2-Dibromoethane	0.00065	U	75-71-8	Dichlorodifluoromethane	0.0020	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	100-41-4	Ethylbenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.0020	U	98-82-8	Isopropylbenzene	0.0010	U
78-87-5	1,2-Dichloropropane	0.0020	U	79601-23-1	m&p-Xylenes	0.0015	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	79-20-9	Methyl Acetate	0.0020	U
106-46-7	1,4-Dichlorobenzene	0.0020	U	108-87-2	Methylcyclohexane	0.0020	U
123-91-1	1,4-Dioxane	0.10	U	75-09-2	Methylene Chloride	0.0020	U
78-93-3	2-Butanone	0.0020	U	1634-04-4	Methyl-t-butyl ether	0.0010	U
591-78-6	2-Hexanone	0.0020	U	95-47-6	o-Xylene	0.0010	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	100-42-5	Styrene	0.0020	U
67-64-1	Acetone	0.010	U	127-18-4	Tetrachloroethene	0.0020	U
71-43-2	Benzene	0.0010	U	108-88-3	Toluene	0.0010	U
74-97-5	Bromochloromethane	0.0020	U	156-60-5	trans-1,2-Dichloroethene	0.0020	U
75-27-4	Bromodichloromethane	0.0020	U	10061-02-6	trans-1,3-Dichloropropene	0.0020	U
75-25-2	Bromoform	0.0020	U	79-01-6	Trichloroethene	0.0020	U
74-83-9	Bromomethane	0.0020	U	75-69-4	Trichlorofluoromethane	0.0020	U
75-15-0	Carbon Disulfide	0.0020	U	75-01-4	Vinyl Chloride	0.0020	U

Worksheet #: 696297

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

SampleID : DAILY BLANK
Data File: 6M169565.D
Acq On : 06/16/23 11:19

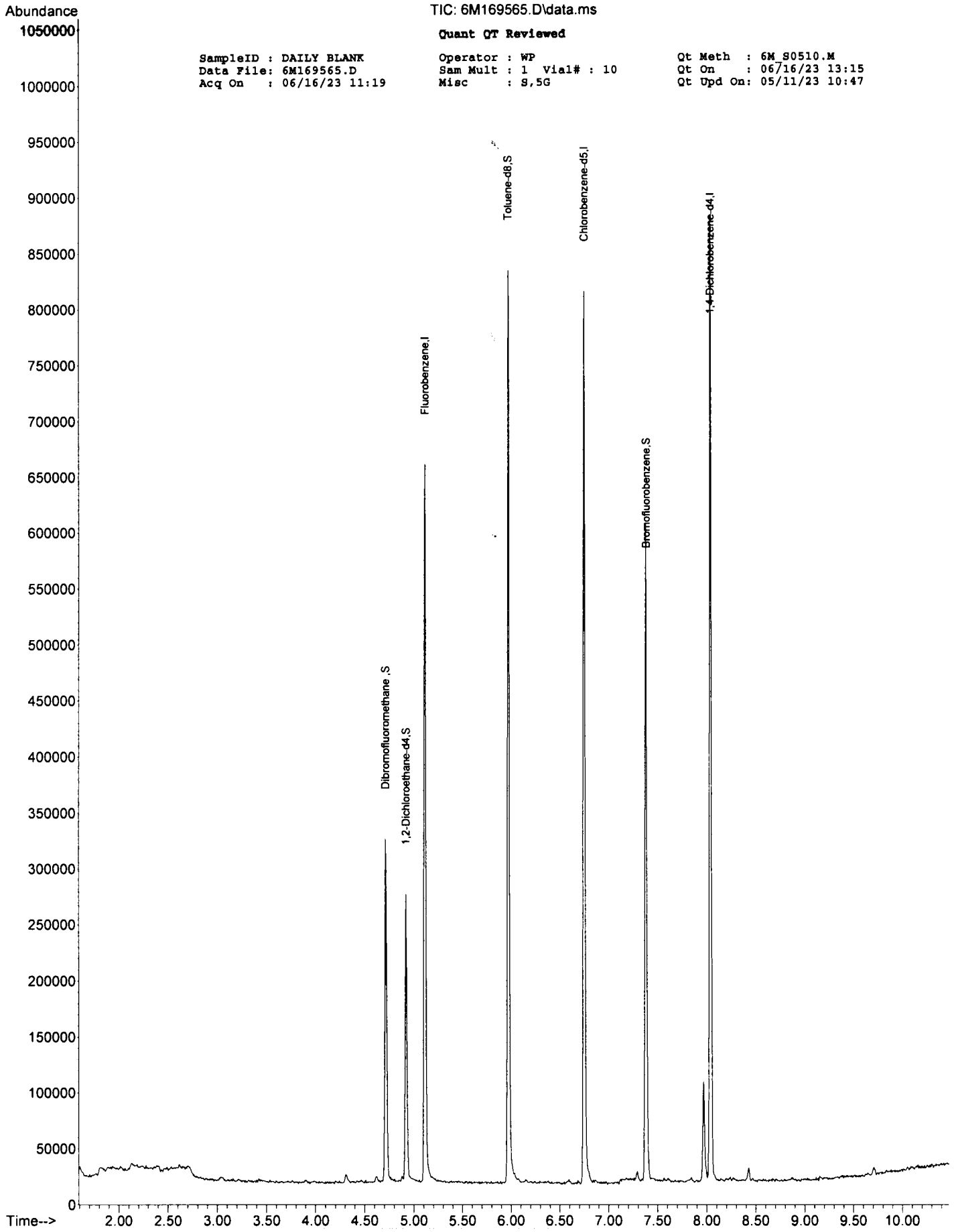
Operator : WP
Sam Mult : 1 Vial# : 10
Misc : S,5G

Qt Meth : 6M_S0510.M
Qt On : 06/16/23 13:15
Qt Upd On: 05/11/23 10:47

Data Path : G:\GcMsData\2023\GCMS_6\Data\06-16-23
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.117	96	412938	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.751	117	348759	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.037	152	181321	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.715	111	130484	35.18	ug/l	0.00
Spiked Amount 30.000			Recovery = 117.27%			
39) 1,2-Dichloroethane-d4	4.922	67	61347	31.31	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.37%			
66) Toluene-d8	5.971	98	401449	26.52	ug/l	0.00
Spiked Amount 30.000			Recovery = 88.40%			
76) Bromofluorobenzene	7.385	174	130016	28.85	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.17%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M169565.D\data.ms
Quant QT Reviewed
SampleID : DAILY BLANK
Data File: 6M169565.D
Acq On : 06/16/23 11:19
Operator : WP
Sam Mult : 1 Vial# : 10
Misc : S,5G
Qt Meth : 6M_S0510.M
Qt On : 06/16/23 13:15
Qt Upd On: 05/11/23 10:47
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form3
Recovery Data Laboratory Limits
QC Batch: MBS109429

Data File	Sample ID:	Analysis Date
Spike or Dup: 2M186044.D	MBS109429	6/15/2023 9:35:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	16.8434	0	20	84	16	181
Dichlorodifluoromethane	1	12.4207	0	20	62	10	202
Chloromethane	1	10.5742	0	20	53	10	182
Bromomethane	1	9.5799	0	20	48	10	172
Vinyl Chloride	1	12.3252	0	20	62	26	176
Chloroethane	1	12.3533	0	20	62	28	165
Trichlorofluoromethane	1	16.1041	0	20	81	18	178
Ethyl ether	1	13.8769	0	20	69	38	155
Furan	1	13.955	0	20	70	31	160
1,1,2-Trichloro-1,2,2-trifluoroethane	1	17.095	0	20	85	32	178
Methylene Chloride	1	19.6303	0	20	98	10	225
Acrolein	1	86.2891	0	100	86	10	183
Acrylonitrile	1	18.8854	0	20	94	40	164
Iodomethane	1	12.4414	0	20	62	10	191
Acetone	1	91.904	0	100	92	10	237
Carbon Disulfide	1	20.0872	0	20	100	10	194
t-Butyl Alcohol	1	102.1344	0	100	102	21	185
n-Hexane	1	18.138	0	20	91	43	179
Di-isopropyl-ether	1	16.1527	0	20	81	47	159
1,1-Dichloroethene	1	16.8886	0	20	84	42	172
Methyl Acetate	1	14.178	0	20	71	10	192
Methyl-t-butyl ether	1	20.9778	0	20	105	43	154
1,1-Dichloroethane	1	18.1913	0	20	91	48	160
trans-1,2-Dichloroethene	1	19.5374	0	20	98	37	171
Ethyl-t-butyl ether	1	18.1331	0	20	91	53	149
cis-1,2-Dichloroethene	1	18.1146	0	20	91	45	161
Bromochloromethane	1	14.2679	0	20	71	42	170
2,2-Dichloropropane	1	21.6392	0	20	108	33	173
Ethyl acetate	1	14.8994	0	20	74	38	156
1,4-Dioxane	1	1186.585	0	1000	119	18	186
1,1-Dichloropropene	1	19.7582	0	20	99	51	157
Chloroform	1	20.1447	0	20	101	47	157
Cyclohexane	1	18.2467	0	20	91	41	175
1,2-Dichloroethane	1	19.3205	0	20	97	43	154
2-Butanone	1	15.9565	0	20	80	20	188
1,1,1-Trichloroethane	1	20.8994	0	20	104	49	155
Carbon Tetrachloride	1	20.6813	0	20	103	47	159
Vinyl Acetate	1	16.2566	0	20	81	31	160
Bromodichloromethane	1	19.1845	0	20	96	48	152
Methylcyclohexane	1	21.4749	0	20	107	47	167
Dibromomethane	1	17.4348	0	20	87	47	153
1,2-Dichloropropane	1	17.2721	0	20	86	53	153
Trichloroethene	1	19.703	0	20	99	45	165
Benzene	1	21.416	0	20	107	41	163
tert-Amyl methyl ether	1	20.9716	0	20	105	51	146
Iso-propylacetate	1	15.5217	0	20	78	37	153
Methyl methacrylate	1	14.894	0	20	74	40	160
Dibromochloromethane	1	17.9041	0	20	90	50	144
2-Chloroethylvinylether	1	17.6313	0	20	88	10	201
cis-1,3-Dichloropropene	1	20.07	0	20	100	49	146
trans-1,3-Dichloropropene	1	20.2686	0	20	101	48	144
Ethyl methacrylate	1	15.2561	0	20	76	38	160
1,1,2-Trichloroethane	1	18.4707	0	20	92	52	146
1,2-Dibromoethane	1	17.204	0	20	86	55	140
1,3-Dichloropropane	1	19.2186	0	20	96	54	142
4-Methyl-2-Pentanone	1	15.3497	0	20	77	41	158
2-Hexanone	1	15.8958	0	20	79	39	163
Tetrachloroethene	1	18.507	0	20	93	48	162
Toluene	1	20.8787	0	20	104	49	153
1,1,1,2-Tetrachloroethane	1	19.0136	0	20	95	51	140
Chlorobenzene	1	20.3402	0	20	102	43	155

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS109429

Method: 8260D **Matrix: Aqueous** **Units: ug/L** **QC Type: MBS**

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	18.6405	0	20	93	21	181
n-Amyl acetate	1	16.7637	0	20	84	20	182
Bromoform	**1**	**17.8486**	**0**	**20**	**89**	**47**	**137**
Ethylbenzene	**1**	**21.3864**	**0**	**20**	**107**	**41**	**153**
1,1,2,2-Tetrachloroethane	**1**	**19.208**	**0**	**20**	**96**	**36**	**152**
Styrene	**1**	**22.3353**	**0**	**20**	**112**	**34**	**170**
m&p-Xylenes	**1**	**46.2854**	**0**	**40**	**116**	**16**	**184**
o-Xylene	**1**	**22.4515**	**0**	**20**	**112**	**31**	**166**
trans-1,4-Dichloro-2-butene	1	17.9772	0	20	90	10	154
1,3-Dichlorobenzene	**1**	**20.8072**	**0**	**20**	**104**	**46**	**147**
1,4-Dichlorobenzene	**1**	**20.448**	**0**	**20**	**102**	**37**	**156**
1,2-Dichlorobenzene	**1**	**20.0993**	**0**	**20**	**100**	**42**	**150**
Isopropylbenzene	**1**	**22.2154**	**0**	**20**	**111**	**32**	**174**
Cyclohexanone	1	168.3776	0	100	168	10	254
Camphene	1	23.1712	0	20	116	10	172
1,2,3-Trichloropropane	1	20.5163	0	20	103	20	164
2-Chlorotoluene	1	21.6125	0	20	108	43	153
p-Ethyltoluene	1	23.4383	0	20	117	36	164
4-Chlorotoluene	1	20.6081	0	20	103	34	160
n-Propylbenzene	1	21.7923	0	20	109	30	176
Bromobenzene	1	19.9988	0	20	100	44	142
1,3,5-Trimethylbenzene	1	22.0109	0	20	110	37	165
Butyl methacrylate	1	17.0899	0	20	85	30	169
t-Butylbenzene	1	21.8671	0	20	109	48	162
1,2,4-Trimethylbenzene	1	21.8326	0	20	109	38	162
sec-Butylbenzene	1	21.8919	0	20	109	42	164
4-Isopropyltoluene	1	21.9902	0	20	110	40	162
n-Butylbenzene	1	21.576	0	20	108	30	176
p-Diethylbenzene	1	22.0162	0	20	110	23	179
1,2,4,5-Tetramethylbenzene	1	21.8635	0	20	109	18	177
1,2-Dibromo-3-Chloropropane	**1**	**19.7845**	**0**	**20**	**99**	**32**	**154**
Camphor	1	229.2015	0	200	115	10	202
Hexachlorobutadiene	1	18.614	0	20	93	23	181
1,2,4-Trichlorobenzene	**1**	**19.6042**	**0**	**20**	**98**	**28**	**169**
1,2,3-Trichlorobenzene	**1**	**20.2201**	**0**	**20**	**101**	**30**	**172**
Naphthalene	1	22.0664	0	20	110	13	191

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Quantitation Report (QT Reviewed)

SampleID : MBS Operator : WP Qt Meth : 2M_A0526.M
Data File: 2M186044.D Sam Mult : 1 Vial# : 14 Qt On : 06/15/23 23:35
Acq On : 06/15/23 21:35 Misc : A,5ML Qt Upd On: 05/27/23 00:16

Data Path : G:\GcMsData\2023\GCMS_2\Data\06-15-23\
Qt Path : G:\GcMsData\2023\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.099	96	379585	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.732	117	319024	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	155316	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.702	111	97393	27.93	ug/l	0.00
Spiked Amount 30.000			Recovery = 93.10%			
39) 1,2-Dichloroethane-d4	4.910	67	53179	28.49	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.97%			
66) Toluene-d8	5.952	98	397727	30.58	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.93%			
76) Bromofluorobenzene	7.366	174	134524	29.72	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.07%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.697	51	59596	16.8434	ug/l	75
6) Dichlorodifluoromethane	1.685	85	42945	12.4207	ug/l	97
7) Chloromethane	1.861	50	31876	10.5742	ug/l	100
8) Bromomethane	2.258	94	18447	9.5799	ug/l	98
9) Vinyl Chloride	1.959	62	41163	12.3252	ug/l	95
10) Chloroethane	2.343	64	25152	12.3533	ug/l	95
11) Trichlorofluoromethane	2.562	101	73958	16.1041	ug/l	96
12) Ethyl ether	2.800	59	37111	13.8769	ug/l	91
13) Furan	2.843	39	58452	13.9550	ug/l	69
14) 1,1,2-Trichloro-1,2,2-...	3.001	101	39308	17.0950	ug/l	96
15) Methylene Chloride	3.416	84	57467	19.6303	ug/l	87
16) Acrolein	2.922	56	44148	86.2891	ug/l	91
17) Acrylonitrile	3.623	53	23396	18.8854	ug/l	95
18) Iodomethane	3.154	142	45065	12.4414	ug/l	97
19) Acetone	3.050	43	85952	91.9040	ug/l	92
20) Carbon Disulfide	3.215	76	151685	20.0872	ug/l	100
21) t-Butyl Alcohol	3.483	59	37707	102.1344	ug/l	98
22) n-Hexane	3.873	57	44644	18.1380	ug/l	88
23) Di-isopropyl-ether	4.026	45	123996	16.1527	ug/l	92
24) 1,1-Dichloroethene	3.008	61	66365	16.8886	ug/l	97
25) Methyl Acetate	3.318	43	32755	14.1780	ug/l	100
26) Methyl-t-butyl ether	3.642	73	164929	20.9778	ug/l	93
27) 1,1-Dichloroethane	4.001	63	88342	18.1913	ug/l	98
28) trans-1,2-Dichloroethene	3.654	96	57289	19.5374	ug/l	95
29) Ethyl-t-butyl ether	4.294	59	155231	18.1331	ug/l	95
30) cis-1,2-Dichloroethene	4.410	61	88200	18.1146	ug/l	90
31) Bromochloromethane	4.568	49	34466	14.2679	ug/l	72
32) 2,2-Dichloropropane	4.416	77	92808	21.6392	ug/l	97
33) Ethyl acetate	4.440	43	53281m	14.8994	ug/l	
34) 1,4-Dioxane	5.495	88	35510	1186.5851	ug/l	89
35) 1,1-Dichloropropene	4.824	75	74230	19.7582	ug/l	95
36) Chloroform	4.605	83	102771	20.1447	ug/l	99
38) Cyclohexane	4.769	56	63131	18.2467	ug/l	92
40) 1,2-Dichloroethane	4.952	62	81574	19.3205	ug/l	96
41) 2-Butanone	4.410	43	23530m	15.9565	ug/l	
42) 1,1,1-Trichloroethane	4.733	97	100114	20.8994	ug/l	95
43) Carbon Tetrachloride	4.830	117	86205	20.6813	ug/l	95
44) Vinyl Acetate	4.020	43	154781	16.2566	ug/l	100
45) Bromodichloromethane	5.568	83	77963	19.1845	ug/l	95
46) Methylcyclohexane	5.416	83	69817	21.4749	ug/l	94
47) Dibromomethane	5.495	174	47096	17.4348	ug/l	98
48) 1,2-Dichloropropane	5.428	63	49301	17.2721	ug/l	97
49) Trichloroethene	5.300	130	68360	19.7030	ug/l	94
50) Benzene	4.946	78	232727	21.4160	ug/l	100
51) tert-Amyl methyl ether	4.989	73	171530	20.9716	ug/l	99
53) Iso-propylacetate	4.946	43	101095	15.5217	ug/l	92
54) Methyl methacrylate	5.452	41	45841	14.8940	ug/l	75
55) Dibromochloromethane	6.422	129	66565	17.9041	ug/l	99
56) 2-Chloroethylvinylether	5.708	63	27725	17.6313	ug/l	89
57) cis-1,3-Dichloropropene	5.806	75	99682	20.0700	ug/l	99
58) trans-1,3-Dichloropropene	6.092	75	95177	20.2686	ug/l	99
59) Ethyl methacrylate	6.111	41	46460	15.2561	ug/l	72
60) 1,1,2-Trichloroethane	6.196	97	55846	18.4707	ug/l	95
61) 1,2-Dibromoethane	6.495	107	56785	17.2040	ug/l	97
62) 1,3-Dichloropropane	6.287	76	93589	19.2186	ug/l	100
63) 4-Methyl-2-Pentanone	5.873	43	49190	15.3497	ug/l	92
64) 2-Hexanone	6.306	43	37232	15.8958	ug/l	81
65) Tetrachloroethene	6.294	164	53747	18.5070	ug/l	99
67) Toluene	5.989	92	159694	20.8787	ug/l	94

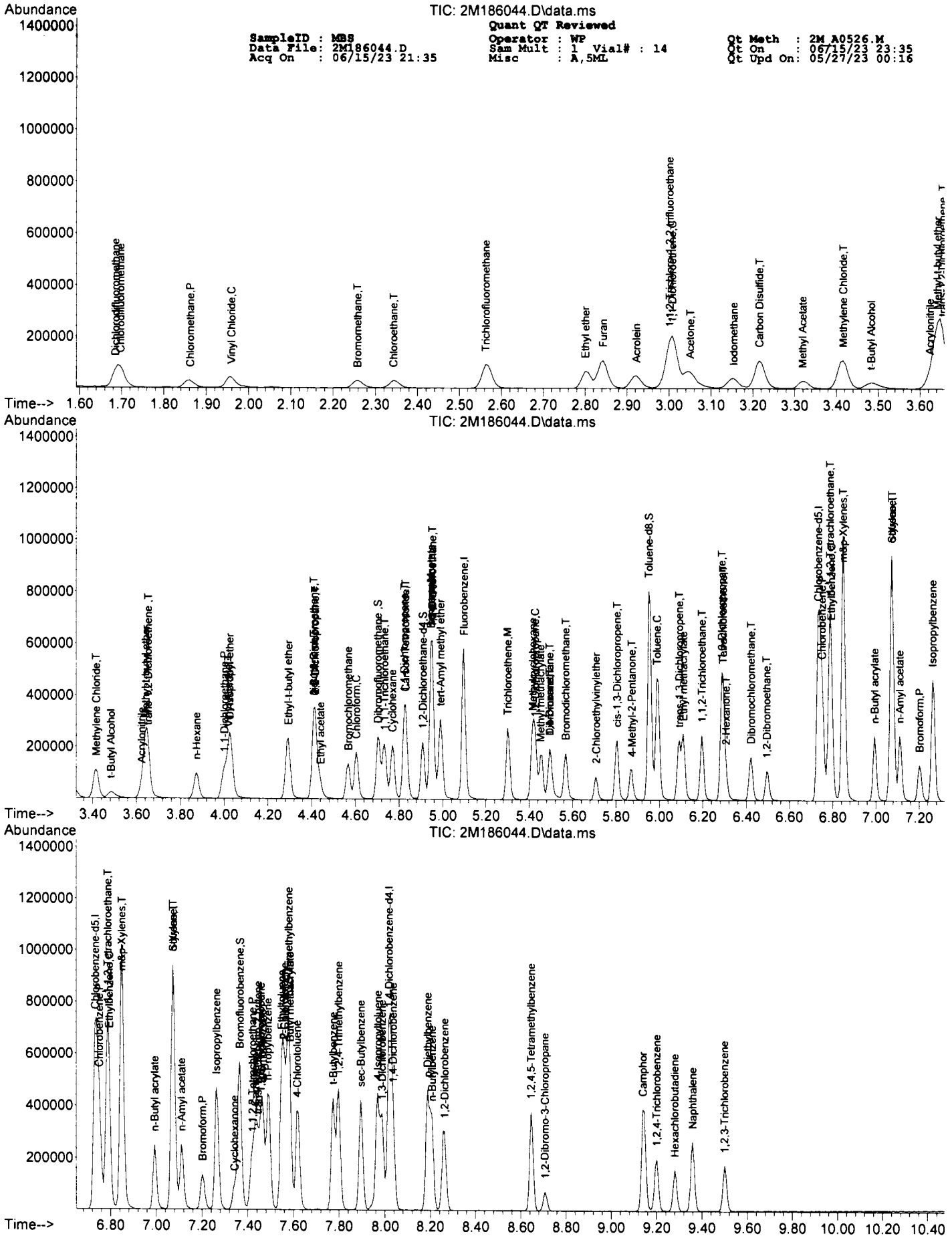
Quantitation Report (QT Reviewed)

SampleID : MBS Operator : WP Qt Meth : 2M_A0526.M
Data File: 2M186044.D Sam Mult : 1 Vial# : 14 Qt On : 06/15/23 23:35
Acq On : 06/15/23 21:35 Misc : A,5ML Qt Upd On: 05/27/23 00:16

Data Path : G:\GcMsData\2023\GCMS_2\Data\06-15-23\
Qt Path : G:\GcMsData\2023\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.787	133	60975	19.0136	ug/l	96
69)	Chlorobenzene	6.751	112	179290	20.3402	ug/l	98
71)	n-Butyl acrylate	6.995	55	108661	18.6405	ug/l	96
72)	n-Amyl acetate	7.110	43	82493	16.7637	ug/l	88
73)	Bromoform	7.202	173	47933	17.8486	ug/l	95
74)	Ethylbenzene	6.793	106	73895	21.3864	ug/l	97
75)	1,1,2,2-Tetrachloroethane	7.421	83	71777	19.2080	ug/l	95
77)	Styrene	7.074	104	191784	22.3353	ug/l	94
78)	m&p-Xylenes	6.848	106	234539	46.2854	ug/l	97
79)	o-Xylene	7.074	106	112993	22.4515	ug/l	94
80)	trans-1,4-Dichloro-2-b...	7.446	53	23623	17.9772	ug/l	83
81)	1,3-Dichlorobenzene	7.988	146	124371	20.8072	ug/l	97
82)	1,4-Dichlorobenzene	8.037	146	124946	20.4480	ug/l	99
83)	1,2-Dichlorobenzene	8.263	146	111985	20.0993	ug/l	98
84)	Isopropylbenzene	7.263	105	245388	22.2154	ug/l	98
85)	Cyclohexanone	7.342	55	29841	168.3776	ug/l	89
86)	Camphene	7.434	93	66638	23.1712	ug/l	99
87)	1,2,3-Trichloropropane	7.458	75	93382	20.5163	ug/l	99
88)	2-Chlorotoluene	7.562	91	153839	21.6125	ug/l	98
89)	p-Ethyltoluene	7.549	105	284173	23.4383	ug/l	93
90)	4-Chlorotoluene	7.616	91	142158	20.6081	ug/l	98
91)	n-Propylbenzene	7.488	91	276952	21.7923	ug/l	97
92)	Bromobenzene	7.464	77	145462	19.9988	ug/l	95
93)	1,3,5-Trimethylbenzene	7.580	105	177011	22.0109	ug/l	88
94)	Butyl methacrylate	7.586	41	56331	17.0899	ug/l	75
95)	t-Butylbenzene	7.775	119	193407	21.8671	ug/l	98
96)	1,2,4-Trimethylbenzene	7.799	105	204450	21.8326	ug/l	98
97)	sec-Butylbenzene	7.897	105	219680	21.8919	ug/l	95
98)	4-Isopropyltoluene	7.970	119	197983	21.9902	ug/l	99
99)	n-Butylbenzene	8.208	91	183349	21.5760	ug/l	96
100)	p-Diethylbenzene	8.190	119	114195	22.0162	ug/l	99
101)	1,2,4,5-Tetramethylben...	8.647	119	153703	21.8635	ug/l	99
102)	1,2-Dibromo-3-Chloropr...	8.708	157	18875	19.7845	ug/l	95
103)	Camphor	9.141	95	87033	229.2015	ug/l	96
104)	Hexachlorobutadiene	9.281	225	23789	18.6140	ug/l	96
105)	1,2,4-Trichlorobenzene	9.202	180	52393	19.6042	ug/l	99
106)	1,2,3-Trichlorobenzene	9.500	180	44997	20.2201	ug/l	98
107)	Naphthalene	9.360	128	169764	22.0664	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M186044.D\data.ms
Quant QT Reviewed
SampleID : MBS
Data File: 2M186044.D
Acq On : 06/15/23 21:35
Operator : WP
Sam Mult : 1 Vial# : 14
Misc : A,5ML
Qt Meth : 2M_A0526.M
Qt On : 06/15/23 23:35
Qt Upd On: 05/27/23 00:16
Dichlorodifluoromethane
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
Time-->

Abundance
TIC: 2M186044.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,C
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Time-->

Abundance
TIC: 2M186044.D\data.ms
Chlorobenzene-d5,I
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
4-Chlorotoluene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
1,4-Dichlorobenzene-d4,I
n-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Form3
Recovery Data Laboratory Limits
QC Batch: MBS110001

Data File	Sample ID:	Analysis Date
Spike or Dup: 6M169573.D	MBS110001	6/16/2023 2:17:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	71.4552	0	50	143	10	168
Dichlorodifluoromethane	**1**	**46.0676**	**0**	**50**	**92**	**10**	**150**
Chloromethane	**1**	**57.6181**	**0**	**50**	**115**	**12**	**150**
Bromomethane	**1**	**33.1862**	**0**	**50**	**66**	**23**	**136**
Vinyl Chloride	**1**	**50.7586**	**0**	**50**	**102**	**21**	**153**
Chloroethane	**1**	**47.8191**	**0**	**50**	**96**	**33**	**147**
Trichlorofluoromethane	**1**	**49.5052**	**0**	**50**	**99**	**29**	**156**
Ethyl ether	1	42.8211	0	50	86	10	141
Furan	1	49.7388	0	50	99	22	152
1,1,2-Trichloro-1,2,2-trifluoroethane	**1**	**54.6806**	**0**	**50**	**109**	**32**	**149**
Methylene Chloride	**1**	**47.435**	**0**	**50**	**95**	**35**	**147**
Acrolein	1	147.1537	0	200	74	10	149
Acrylonitrile	1	37.3814	0	50	75	20	130
Iodomethane	1	8.5696	0	50	17	10	152
Acetone	**1**	**201.4836**	**0**	**200**	**101**	**22**	**222**
Carbon Disulfide	**1**	**62.8946**	**0**	**50**	**126**	**18**	**135**
t-Butyl Alcohol	1	175.6061	0	200	88	38	178
n-Hexane	1	55.447	0	50	111	11	154
Di-isopropyl-ether	1	45.1157	0	50	90	38	150
1,1-Dichloroethene	**1**	**52.7489**	**0**	**50**	**105**	**31**	**165**
Methyl Acetate	**1**	**35.1244**	**0**	**50**	**70**	**10**	**237**
Methyl-t-butyl ether	**1**	**39.1526**	**0**	**50**	**78**	**40**	**151**
1,1-Dichloroethane	**1**	**49.6118**	**0**	**50**	**99**	**41**	**149**
trans-1,2-Dichloroethene	**1**	**54.291**	**0**	**50**	**109**	**33**	**150**
Ethyl-t-butyl ether	1	45.9932	0	50	92	22	184
cis-1,2-Dichloroethene	**1**	**46.4926**	**0**	**50**	**93**	**33**	**146**
Bromochloromethane	**1**	**42.3694**	**0**	**50**	**85**	**38**	**143**
2,2-Dichloropropane	1	48.4492	0	50	97	38	161
Ethyl acetate	1	35.4873	0	50	71	10	130
1,4-Dioxane	**1**	**1808.089**	**0**	**2500**	**72**	**35**	**151**
1,1-Dichloropropene	1	54.5092	0	50	109	34	149
Chloroform	**1**	**46.4052**	**0**	**50**	**93**	**41**	**145**
Cyclohexane	**1**	**58.5516**	**0**	**50**	**117**	**25**	**148**
1,2-Dichloroethane	**1**	**40.0431**	**0**	**50**	**80**	**37**	**143**
2-Butanone	**1**	**36.076**	**0**	**50**	**72**	**21**	**163**
1,1,1-Trichloroethane	**1**	**51.9542**	**0**	**50**	**104**	**38**	**149**
Carbon Tetrachloride	**1**	**52.703**	**0**	**50**	**105**	**33**	**150**
Vinyl Acetate	1	42.0307	0	50	84	10	112
Bromodichloromethane	**1**	**42.6151**	**0**	**50**	**85**	**36**	**146**
Methylcyclohexane	**1**	**59.2025**	**0**	**50**	**118**	**15**	**147**
Dibromomethane	1	40.3927	0	50	81	32	144
1,2-Dichloropropane	**1**	**46.0839**	**0**	**50**	**92**	**40**	**144**
Trichloroethene	**1**	**50.8244**	**0**	**50**	**102**	**24**	**161**
Benzene	**1**	**50.4462**	**0**	**50**	**101**	**38**	**146**
tert-Amyl methyl ether	1	43.9412	0	50	88	10	240
Iso-propylacetate	1	33.4385	0	50	67	10	139
Methyl methacrylate	1	39.63	0	50	79	10	224
Dibromochloromethane	**1**	**36.1041**	**0**	**50**	**72**	**32**	**140**
2-Chloroethylvinylether	1	159.6881	0	50	319*	10	266
cis-1,3-Dichloropropene	**1**	**36.4564**	**0**	**50**	**73**	**27**	**139**
trans-1,3-Dichloropropene	**1**	**34.491**	**0**	**50**	**69**	**22**	**141**
Ethyl methacrylate	1	32.1991	0	50	64	16	151
1,1,2-Trichloroethane	**1**	**36.287**	**0**	**50**	**73**	**32**	**138**
1,2-Dibromoethane	**1**	**33.2516**	**0**	**50**	**67**	**30**	**135**
1,3-Dichloropropane	1	37.3002	0	50	75	36	136
4-Methyl-2-Pentanone	**1**	**35.5258**	**0**	**50**	**71**	**23**	**137**
2-Hexanone	**1**	**36.2147**	**0**	**50**	**72**	**10**	**149**
Tetrachloroethene	**1**	**47.3705**	**0**	**50**	**95**	**24**	**140**
Toluene	**1**	**44.1489**	**0**	**50**	**88**	**31**	**139**
1,1,1,2-Tetrachloroethane	1	39.2342	0	50	78	31	134
Chlorobenzene	**1**	**40.6995**	**0**	**50**	**81**	**24**	**134**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS110001

Method: 8260D **Matrix: Soil** **Units: mg/Kg** **QC Type: MBS**

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	28.7884	0	50	58	10	140
n-Amyl acetate	1	32.1738	0	50	64	10	138
Bromoform	1	30.5331	0	50	61	21	137
Ethylbenzene	1	40.8921	0	50	82	29	137
1,1,2,2-Tetrachloroethane	1	32.5105	0	50	65	18	136
Styrene	1	39.0241	0	50	78	14	141
m&p-Xylenes	1	85.6137	0	100	86	18	152
o-Xylene	1	41.2987	0	50	83	21	146
trans-1,4-Dichloro-2-butene	1	29.3314	0	50	59	11	139
1,3-Dichlorobenzene	1	37.7316	0	50	75	10	134
1,4-Dichlorobenzene	1	37.1936	0	50	74	10	132
1,2-Dichlorobenzene	1	35.6153	0	50	71	10	129
Isopropylbenzene	1	43.0717	0	50	86	14	150
Cyclohexanone	1	229.4811	0	250	92	10	344
Camphene	1	48.2175	0	50	96	10	137
1,2,3-Trichloropropane	1	37.2695	0	50	75	20	133
2-Chlorotoluene	1	42.6308	0	50	85	13	140
p-Ethyltoluene	1	43.3416	0	50	87	10	138
4-Chlorotoluene	1	42.4945	0	50	85	10	138
n-Propylbenzene	1	46.3729	0	50	93	10	145
Bromobenzene	1	37.8211	0	50	76	14	132
1,3,5-Trimethylbenzene	1	47.2265	0	50	94	12	146
Butyl methacrylate	1	36.7441	0	50	73	10	154
t-Butylbenzene	1	43.9626	0	50	88	10	142
1,2,4-Trimethylbenzene	1	41.5244	0	50	83	10	147
sec-Butylbenzene	1	48.1561	0	50	96	10	146
4-Isopropyltoluene	1	36.2414	0	50	72	10	128
n-Butylbenzene	1	45.8177	0	50	92	10	146
p-Diethylbenzene	1	43.2687	0	50	87	10	142
1,2,4,5-Tetramethylbenzene	1	28.3807	0	50	57	10	130
1,2-Dibromo-3-Chloropropane	1	29.1274	0	50	58	16	126
Camphor	1	277.7387	0	200	139	20	150
Hexachlorobutadiene	1	43.7233	0	50	87	10	123
1,2,4-Trichlorobenzene	1	34.4202	0	50	69	10	128
1,2,3-Trichlorobenzene	1	33.3435	0	50	67	10	123
Naphthalene	1	29.4041	0	50	59	10	140

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Quantitation Report (QT Reviewed)

SampleID : MBS Operator : WP Qt Meth : 6M_S0510.M
Data File: 6M169573.D Sam Mult : 1 Vial# : 18 Qt On : 06/16/23 17:27
Acq On : 06/16/23 14:17 Misc : S,5G Qt Upd On: 05/11/23 10:47

Data Path : G:\GcMsData\2023\GCMS_6\Data\06-16-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.117	96	449260	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.751	117	359955	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.037	152	208522	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.715	111	125772	31.16	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.87%			
39) 1,2-Dichloroethane-d4	4.922	67	60051	28.17	ug/l	0.00
Spiked Amount 30.000			Recovery = 93.90%			
66) Toluene-d8	5.971	98	452620	28.97	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.57%			
76) Bromofluorobenzene	7.379	174	154106	29.74	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.13%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.648	51	198526	71.4552	ug/l	94
6) Dichlorodifluoromethane	1.636	85	107241	46.0676	ug/l	98
7) Chloromethane	1.807	50	217220	57.6181	ug/l	99
8) Bromomethane	2.227	94	62527m	33.1862	ug/l	
9) Vinyl Chloride	1.916	62	153745	50.7586	ug/l	99
10) Chloroethane	2.319	64	97765	47.8191	ug/l	89
11) Trichlorofluoromethane	2.550	101	185614	49.5052	ug/l	96
12) Ethyl ether	2.794	59	113349	42.8211	ug/l	91
13) Furan	2.837	39	198839	49.7388	ug/l	93
14) 1,1,2-Trichloro-1,2,2-...	3.008	101	115651	54.6806	ug/l	98
15) Methylene Chloride	3.422	84	153941	47.4350	ug/l	79
16) Acrolein	2.910	56	85196	147.1537	ug/l	96
17) Acrylonitrile	3.623	53	46276	37.3814	ug/l	80
18) Iodomethane	3.154	142	16878	8.5696	ug/l	98
19) Acetone	3.038	43	182809m	201.4836	ug/l	
20) Carbon Disulfide	3.227	76	431487	62.8946	ug/l	100
21) t-Butyl Alcohol	3.483	59	61881	175.6061	ug/l	83
22) n-Hexane	3.898	57	153876	55.4470	ug/l	94
23) Di-isopropyl-ether	4.050	45	352877	45.1157	ug/l	89
24) 1,1-Dichloroethene	3.008	61	186269	52.7489	ug/l	98
25) Methyl Acetate	3.325	43	97365	35.1244	ug/l	100
26) Methyl-t-butyl ether	3.660	73	269284	39.1526	ug/l	90
27) 1,1-Dichloroethane	4.014	63	243251	49.6118	ug/l	98
28) trans-1,2-Dichloroethene	3.666	96	143715	54.2910	ug/l	98
29) Ethyl-t-butyl ether	4.050	59	45408m	45.9932	ug/l	
30) cis-1,2-Dichloroethene	4.428	61	229062	46.4926	ug/l	91
31) Bromochloromethane	4.581	49	107211	42.3694	ug/l	82
32) 2,2-Dichloropropane	4.434	77	163471	48.4492	ug/l	99
33) Ethyl acetate	4.453	43	117173	35.4873	ug/l	98
34) 1,4-Dioxane	5.507	88	85371	1808.0893	ug/l	87
35) 1,1-Dichloropropene	4.843	75	192221	54.5092	ug/l	93
36) Chloroform	4.617	83	254649	46.4052	ug/l	96
38) Cyclohexane	4.794	56	194133	58.5516	ug/l	87
40) 1,2-Dichloroethane	4.965	62	170271	40.0431	ug/l	100
41) 2-Butanone	4.422	43	55993m	36.0760	ug/l	
42) 1,1,1-Trichloroethane	4.751	97	205321	51.9542	ug/l	98
43) Carbon Tetrachloride	4.855	117	184065	52.7030	ug/l	99
44) Vinyl Acetate	4.044	43	312964	42.0307	ug/l	100
45) Bromodichloromethane	5.580	83	189640	42.6151	ug/l	97
46) Methylcyclohexane	5.440	83	219300	59.2025	ug/l	90
47) Dibromomethane	5.513	174	92472	40.3927	ug/l	95
48) 1,2-Dichloropropane	5.446	63	145342	46.0839	ug/l	96
49) Trichloroethene	5.318	130	154032	50.8244	ug/l	97
50) Benzene	4.965	78	573833	50.4462	ug/l	100
51) tert-Amyl methyl ether	5.007	73	282844	43.9412	ug/l	88
53) Iso-propylacetate	4.965	43	205458	33.4385	ug/l	92
54) Methyl methacrylate	5.471	41	113019	39.6300	ug/l	82
55) Dibromochloromethane	6.434	129	146763	36.1041	ug/l	99
56) 2-Chloroethylvinylether	5.721	63	3185	159.6881	ug/l	94
57) cis-1,3-Dichloropropene	5.818	75	195641	36.4564	ug/l	99
58) trans-1,3-Dichloropropene	6.105	75	168967	34.4910	ug/l	99
59) Ethyl methacrylate	6.123	41	99494	32.1991	ug/l	85
60) 1,1,2-Trichloroethane	6.208	97	123646	36.2870	ug/l	97
61) 1,2-Dibromoethane	6.513	107	119570	33.2516	ug/l	87
62) 1,3-Dichloropropane	6.300	76	214242	37.3002	ug/l	99
63) 4-Methyl-2-Pentanone	5.885	43	117224m	35.5258	ug/l	
64) 2-Hexanone	6.318	43	88953m	36.2147	ug/l	
65) Tetrachloroethene	6.312	164	116735	47.3705	ug/l	98
67) Toluene	6.007	92	353347	44.1489	ug/l	100

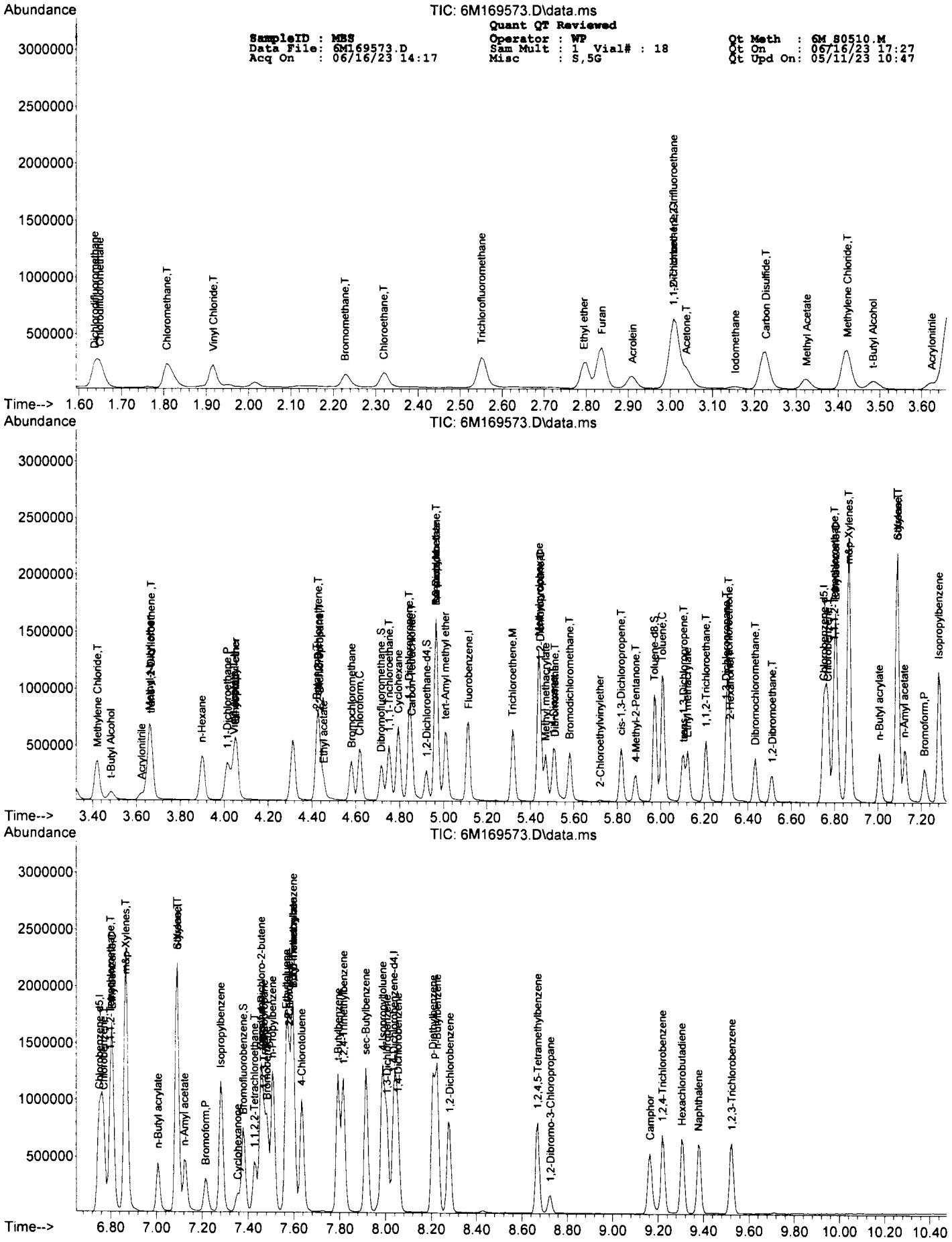
Quantitation Report (QT Reviewed)

SampleID : MBS Operator : WP Qt Meth : 6M_S0510.M
Data File: 6M169573.D Sam Mult : 1 Vial# : 18 Qt On : 06/16/23 17:27
Acq On : 06/16/23 14:17 Misc : S,5G Qt Upd On: 05/11/23 10:47

Data Path : G:\GcMsData\2023\GCMS_6\Data\06-16-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.800	133	131131	39.2342	ug/l	99
69)	Chlorobenzene	6.769	112	375281	40.6995	ug/l	97
71)	n-Butyl acrylate	7.007	55	189737	28.7884	ug/l	97
72)	n-Amyl acetate	7.123	43	189506m	32.1738	ug/l	
73)	Bromoform	7.214	173	97770	30.5331	ug/l	96
74)	Ethylbenzene	6.806	106	158071	40.8921	ug/l	89
75)	1,1,2,2-Tetrachloroethane	7.428	83	173527	32.5105	ug/l	100
77)	Styrene	7.092	104	388907	39.0241	ug/l	99
78)	m&p-Xylenes	6.867	106	492526	85.6137	ug/l	97
79)	o-Xylene	7.092	106	247445	41.2987	ug/l	98
80)	trans-1,4-Dichloro-2-b...	7.458	53	51554	29.3314	ug/l	93
81)	1,3-Dichlorobenzene	8.007	146	289844	37.7316	ug/l	99
82)	1,4-Dichlorobenzene	8.056	146	283710	37.1936	ug/l	98
83)	1,2-Dichlorobenzene	8.281	146	270764	35.6153	ug/l	98
84)	Isopropylbenzene	7.281	105	566634	43.0717	ug/l	98
85)	Cyclohexanone	7.354	55	48755	229.4811	ug/l	95
86)	Camphene	7.458	93	219624	48.2175	ug/l	98
87)	1,2,3-Trichloropropane	7.470	75	223215m	37.2695	ug/l	
88)	2-Chlorotoluene	7.580	91	401071	42.6308	ug/l	98
89)	p-Ethyltoluene	7.568	105	603295	43.3416	ug/l	97
90)	4-Chlorotoluene	7.635	91	374405	42.4945	ug/l	95
91)	n-Propylbenzene	7.507	91	729838	46.3729	ug/l	98
92)	Bromobenzene	7.482	77	383845	37.8211	ug/l	97
93)	1,3,5-Trimethylbenzene	7.598	105	508842	47.2265	ug/l	91
94)	Butyl methacrylate	7.598	41	153652m	36.7441	ug/l	
95)	t-Butylbenzene	7.793	119	492109	43.9626	ug/l	99
96)	1,2,4-Trimethylbenzene	7.818	105	482591	41.5244	ug/l	98
97)	sec-Butylbenzene	7.915	105	658851	48.1561	ug/l	97
98)	4-Isopropyltoluene	7.988	119	526506	36.2414	ug/l	98
99)	n-Butylbenzene	8.226	91	592406	45.8177	ug/l	97
100)	p-Diethylbenzene	8.208	119	293868	43.2687	ug/l	96
101)	1,2,4,5-Tetramethylben...	8.671	119	322343	28.3807	ug/l	100
102)	1,2-Dibromo-3-Chloropr...	8.726	157	36352	29.1274	ug/l	94
103)	Camphor	9.165	95	133394m	277.7387	ug/l	
104)	Hexachlorobutadiene	9.305	225	99829	43.7233	ug/l	98
105)	1,2,4-Trichlorobenzene	9.220	180	163652	34.4202	ug/l	97
106)	1,2,3-Trichlorobenzene	9.525	180	154644	33.3435	ug/l	98
107)	Naphthalene	9.378	128	381017	29.4041	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M169573.D\data.ms
SampleID : MBS
Data File: 6M169573.D
Acq On : 06/16/23 14:17
Quant QT Reviewed
Operator : WP
Sam Mult : 1 Vial# : 18
Misc : S,5G
Qt Meth : 6M_80510.M
Qt On : 06/16/23 17:27
Qt Upd On: 05/11/23 10:47
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
Time-->

Form3
Recovery Data Laboratory Limits
QC Batch: MBS109429

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M186046.D	AD38445-001(50X)(T:MS)	6/15/2023 10:15:00 PM
Non Spike(If applicable):	2M186048.D	AD38445-001(50X)(T)	6/15/2023 10:55:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	0	0	20	0*	16	181
Dichlorodifluoromethane	1	0	0	20	0*	10	202
Chloromethane	1	0	0	20	0*	10	182
Bromomethane	1	0	0	20	0*	10	172
Vinyl Chloride	1	0	0	20	0*	26	176
Chloroethane	1	0	0	20	0*	28	165
Trichlorofluoromethane	1	0	0	20	0*	18	178
Ethyl ether	1	0	0	20	0*	38	155
Furan	1	0	0	20	0*	31	160
1,1,2-Trichloro-1,2,2-trifluoroethane	1	0	0	20	0*	32	178
Methylene Chloride	1	0	0	20	0*	10	225
Acrolein	1	0	0	100	0*	10	183
Acrylonitrile	1	0	0	20	0*	40	164
Iodomethane	1	0	0	20	0*	10	191
Acetone	1	0	0	100	0*	10	237
Carbon Disulfide	1	0	0	20	0*	10	194
t-Butyl Alcohol	1	0	0	100	0*	21	185
n-Hexane	1	0	0	20	0*	43	179
Di-isopropyl-ether	1	0	0	20	0*	47	159
1,1-Dichloroethene	1	0	0	20	0*	42	172
Methyl Acetate	1	0	0	20	0*	10	192
Methyl-t-butyl ether	1	0	0	20	0*	43	154
1,1-Dichloroethane	1	0	0	20	0*	48	160
trans-1,2-Dichloroethene	1	0	0	20	0*	37	171
Ethyl-t-butyl ether	1	0	0	20	0*	53	149
cis-1,2-Dichloroethene	1	0	0	20	0*	45	161
Bromochloromethane	1	0	0	20	0*	42	170
2,2-Dichloropropane	1	0	0	20	0*	33	173
Ethyl acetate	1	0	0	20	0*	38	156
1,4-Dioxane	1	0	0	1000	0*	18	186
1,1-Dichloropropene	1	0	0	20	0*	51	157
Chloroform	1	0	0	20	0*	47	157
Cyclohexane	1	0	0	20	0*	41	175
1,2-Dichloroethane	1	0	0	20	0*	43	154
2-Butanone	1	0	0	20	0*	20	188
1,1,1-Trichloroethane	1	0	0	20	0*	49	155
Carbon Tetrachloride	1	0	0	20	0*	47	159
Vinyl Acetate	1	0	0	20	0*	31	160
Bromodichloromethane	1	0	0	20	0*	48	152
Methylcyclohexane	1	0	0	20	0*	47	167
Dibromomethane	1	0	0	20	0*	47	153
1,2-Dichloropropane	1	0	0	20	0*	53	153
Trichloroethene	1	0	0	20	0*	45	165
Benzene	1	0	0	20	0*	41	163
tert-Amyl methyl ether	1	0	0	20	0*	51	146
Iso-propylacetate	1	0	0	20	0*	37	153
Methyl methacrylate	1	0	0	20	0*	40	160
Dibromochloromethane	1	0	0	20	0*	50	144
2-Chloroethylvinylether	1	0	0	20	0*	10	201
cis-1,3-Dichloropropene	1	0	0	20	0*	49	146
trans-1,3-Dichloropropene	1	0	0	20	0*	48	144
Ethyl methacrylate	1	0	0	20	0*	38	160
1,1,2-Trichloroethane	1	0	0	20	0*	52	146
1,2-Dibromoethane	1	0	0	20	0*	55	140
1,3-Dichloropropane	1	0	0	20	0*	54	142
4-Methyl-2-Pentanone	1	0	0	20	0*	41	158
2-Hexanone	1	0	0	20	0*	39	163
Tetrachloroethene	1	0	0	20	0*	48	156
Toluene	1	0	0	20	0*	49	153
1,1,1,2-Tetrachloroethane	1	0	0	20	0*	51	140
Chlorobenzene	1	0	0	20	0*	43	155

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS109429

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	0	0	20	0*	21	181
n-Amyl acetate	1	0	0	20	0*	20	182
Bromoform	1	0	0	20	0*	47	137
Ethylbenzene	1	0	0	20	0*	41	153
1,1,2,2-Tetrachloroethane	1	0	0	20	0*	36	152
Styrene	1	0	0	20	0*	34	170
m&p-Xylenes	1	0	0	40	0*	16	184
o-Xylene	1	0	0	20	0*	31	166
trans-1,4-Dichloro-2-butene	1	0	0	20	0*	10	154
1,3-Dichlorobenzene	1	0	0	20	0*	46	147
1,4-Dichlorobenzene	1	0	0	20	0*	37	156
1,2-Dichlorobenzene	1	0	0	20	0*	42	150
Isopropylbenzene	1	0	0	20	0*	32	174
Cyclohexanone	1	0	0	100	0*	10	254
Camphene	1	0	0	20	0*	10	172
1,2,3-Trichloropropane	1	0	0	20	0*	20	164
2-Chlorotoluene	1	0	0	20	0*	43	153
p-Ethyltoluene	1	0	0	20	0*	36	164
4-Chlorotoluene	1	0	0	20	0*	34	160
n-Propylbenzene	1	0	0	20	0*	36	170
Bromobenzene	1	0	0	20	0*	44	142
1,3,5-Trimethylbenzene	1	0	0	20	0*	37	165
Butyl methacrylate	1	0	0	20	0*	30	169
t-Butylbenzene	1	0	0	20	0*	48	152
1,2,4-Trimethylbenzene	1	0	0	20	0*	38	162
sec-Butylbenzene	1	0	0	20	0*	42	164
4-Isopropyltoluene	1	0	0	20	0*	40	162
n-Butylbenzene	1	0	0	20	0*	30	176
p-Diethylbenzene	1	0	0	20	0*	23	179
1,2,4,5-Tetramethylbenzene	1	0	0	20	0*	18	177
1,2-Dibromo-3-Chloropropane	1	0	0	20	0*	32	154
Camphor	1	0	0	200	0*	10	202
Hexachlorobutadiene	1	0	0	20	0*	23	181
1,2,4-Trichlorobenzene	1	0	0	20	0*	28	169
1,2,3-Trichlorobenzene	1	0	0	20	0*	30	172
Naphthalene	1	0	0	20	0*	13	191

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS109429

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M186047.D	AD38445-001(50X)(T:MSD)	6/15/2023 10:36:00 PM
Non Spike(If applicable):	2M186048.D	AD38445-001(50X)(T)	6/15/2023 10:55:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	0	0	20	0*	16	181
Dichlorodifluoromethane	1	0	0	20	0*	10	202
Chloromethane	1	0	0	20	0*	10	182
Bromomethane	1	0	0	20	0*	10	172
Vinyl Chloride	1	0	0	20	0*	26	176
Chloroethane	1	0	0	20	0*	28	165
Trichlorofluoromethane	1	0	0	20	0*	18	178
Ethyl ether	1	0	0	20	0*	38	155
Furan	1	0	0	20	0*	31	160
1,1,2-Trichloro-1,2,2-trifluoroethane	1	0	0	20	0*	32	178
Methylene Chloride	1	0	0	20	0*	10	225
Acrolein	1	0	0	100	0*	10	183
Acrylonitrile	1	0	0	20	0*	40	164
Iodomethane	1	0	0	20	0*	10	191
Acetone	1	0	0	100	0*	10	237
Carbon Disulfide	1	0	0	20	0*	10	194
t-Butyl Alcohol	1	0	0	100	0*	21	185
n-Hexane	1	0	0	20	0*	43	179
Di-isopropyl-ether	1	0	0	20	0*	47	159
1,1-Dichloroethene	1	0	0	20	0*	42	172
Methyl Acetate	1	0	0	20	0*	10	192
Methyl-t-butyl ether	1	0	0	20	0*	43	154
1,1-Dichloroethane	1	0	0	20	0*	48	160
trans-1,2-Dichloroethene	1	0	0	20	0*	37	171
Ethyl-t-butyl ether	1	0	0	20	0*	53	149
cis-1,2-Dichloroethene	1	0	0	20	0*	45	161
Bromochloromethane	1	0	0	20	0*	42	170
2,2-Dichloropropane	1	0	0	20	0*	33	173
Ethyl acetate	1	0	0	20	0*	38	156
1,4-Dioxane	1	0	0	1000	0*	18	186
1,1-Dichloropropene	1	0	0	20	0*	51	157
Chloroform	1	0	0	20	0*	47	157
Cyclohexane	1	0	0	20	0*	41	175
1,2-Dichloroethane	1	0	0	20	0*	43	154
2-Butanone	1	0	0	20	0*	20	188
1,1,1-Trichloroethane	1	0	0	20	0*	49	155
Carbon Tetrachloride	1	0	0	20	0*	47	159
Vinyl Acetate	1	0	0	20	0*	31	160
Bromodichloromethane	1	0	0	20	0*	48	152
Methylcyclohexane	1	0	0	20	0*	47	167
Dibromomethane	1	0	0	20	0*	47	153
1,2-Dichloropropane	1	0	0	20	0*	53	153
Trichloroethene	1	0	0	20	0*	45	165
Benzene	1	0	0	20	0*	41	163
tert-Amyl methyl ether	1	0	0	20	0*	51	146
Iso-propylacetate	1	0	0	20	0*	37	153
Methyl methacrylate	1	0	0	20	0*	40	160
Dibromochloromethane	1	0	0	20	0*	50	144
2-Chloroethylvinylether	1	0	0	20	0*	10	201
cis-1,3-Dichloropropene	1	0	0	20	0*	49	146
trans-1,3-Dichloropropene	1	0	0	20	0*	48	144
Ethyl methacrylate	1	0	0	20	0*	38	160
1,1,2-Trichloroethane	1	0	0	20	0*	52	146
1,2-Dibromoethane	1	0	0	20	0*	55	140
1,3-Dichloropropane	1	0	0	20	0*	54	142
4-Methyl-2-Pentanone	1	0	0	20	0*	41	158
2-Hexanone	1	0	0	20	0*	39	163
Tetrachloroethene	1	0	0	20	0*	48	156
Toluene	1	0	0	20	0*	49	153
1,1,1,2-Tetrachloroethane	1	0	0	20	0*	51	140
Chlorobenzene	1	0	0	20	0*	43	155

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS109429

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	0	0	20	0*	21	181
n-Amyl acetate	1	0	0	20	0*	20	182
Bromoform	**1**	**0**	**0**	**20**	**0***	**47**	**137**
Ethylbenzene	**1**	**0**	**0**	**20**	**0***	**41**	**153**
1,1,2,2-Tetrachloroethane	**1**	**0**	**0**	**20**	**0***	**36**	**152**
Styrene	**1**	**0**	**0**	**20**	**0***	**34**	**170**
m&p-Xylenes	**1**	**0**	**0**	**40**	**0***	**16**	**184**
o-Xylene	**1**	**0**	**0**	**20**	**0***	**31**	**166**
trans-1,4-Dichloro-2-butene	1	0	0	20	0*	10	154
1,3-Dichlorobenzene	**1**	**0**	**0**	**20**	**0***	**46**	**147**
1,4-Dichlorobenzene	**1**	**0**	**0**	**20**	**0***	**37**	**156**
1,2-Dichlorobenzene	**1**	**0**	**0**	**20**	**0***	**42**	**150**
Isopropylbenzene	**1**	**0**	**0**	**20**	**0***	**32**	**174**
Cyclohexanone	1	0	0	100	0*	10	254
Camphene	1	0	0	20	0*	10	172
1,2,3-Trichloropropane	1	0	0	20	0*	20	164
2-Chlorotoluene	1	0	0	20	0*	43	153
p-Ethyltoluene	1	0	0	20	0*	36	164
4-Chlorotoluene	1	0	0	20	0*	34	160
n-Propylbenzene	1	0	0	20	0*	36	170
Bromobenzene	1	0	0	20	0*	44	142
1,3,5-Trimethylbenzene	1	0	0	20	0*	37	165
Butyl methacrylate	1	0	0	20	0*	30	169
t-Butylbenzene	1	0	0	20	0*	48	152
1,2,4-Trimethylbenzene	1	0	0	20	0*	38	162
sec-Butylbenzene	1	0	0	20	0*	42	164
4-Isopropyltoluene	1	0	0	20	0*	40	162
n-Butylbenzene	1	0	0	20	0*	30	176
p-Diethylbenzene	1	0	0	20	0*	23	179
1,2,4,5-Tetramethylbenzene	1	0	0	20	0*	18	177
1,2-Dibromo-3-Chloropropane	**1**	**0**	**0**	**20**	**0***	**32**	**154**
Camphor	1	0	0	200	0*	10	202
Hexachlorobutadiene	1	0	0	20	0*	23	181
1,2,4-Trichlorobenzene	**1**	**0**	**0**	**20**	**0***	**28**	**169**
1,2,3-Trichlorobenzene	**1**	**0**	**0**	**20**	**0***	**30**	**172**
Naphthalene	1	0	0	20	0*	13	191

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS109429

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M186047.D	AD38445-001(50X)(T:MSD)	6/15/2023 10:36:00 PM
Duplicate(If applicable):	2M186046.D	AD38445-001(50X)(T:MS)	6/15/2023 10:15:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	0	0	NA	78
Dichlorodifluoromethane	**1**	**0**	**0**	**NA**	**62**
Chloromethane	**1**	**0**	**0**	**NA**	**67**
Bromomethane	**1**	**0**	**0**	**NA**	**65**
Vinyl Chloride	**1**	**0**	**0**	**NA**	**55**
Chloroethane	**1**	**0**	**0**	**NA**	**59**
Trichlorofluoromethane	**1**	**0**	**0**	**NA**	**56**
Ethyl ether	1	0	0	NA	55
Furan	1	0	0	NA	55
1,1,2-Trichloro-1,2,2-trifluoroethane	**1**	**0**	**0**	**NA**	**58**
Methylene Chloride	**1**	**0**	**0**	**NA**	**36**
Acrolein	1	0	0	NA	66
Acrylonitrile	1	0	0	NA	59
Iodomethane	1	0	0	NA	66
Acetone	**1**	**0**	**0**	**NA**	**85**
Carbon Disulfide	**1**	**0**	**0**	**NA**	**61**
t-Butyl Alcohol	1	0	0	NA	78
n-Hexane	1	0	0	NA	56
Di-isopropyl-ether	1	0	0	NA	54
1,1-Dichloroethene	**1**	**0**	**0**	**NA**	**56**
Methyl Acetate	**1**	**0**	**0**	**NA**	**71**
Methyl-t-butyl ether	**1**	**0**	**0**	**NA**	**53**
1,1-Dichloroethane	**1**	**0**	**0**	**NA**	**54**
trans-1,2-Dichloroethene	**1**	**0**	**0**	**NA**	**54**
Ethyl-t-butyl ether	1	0	0	NA	53
cis-1,2-Dichloroethene	**1**	**0**	**0**	**NA**	**53**
Bromochloromethane	**1**	**0**	**0**	**NA**	**54**
2,2-Dichloropropane	1	0	0	NA	55
Ethyl acetate	1	0	0	NA	56
1,4-Dioxane	**1**	**0**	**0**	**NA**	**95**
1,1-Dichloropropene	1	0	0	NA	54
Chloroform	**1**	**0**	**0**	**NA**	**53**
Cyclohexane	**1**	**0**	**0**	**NA**	**55**
1,2-Dichloroethane	**1**	**0**	**0**	**NA**	**52**
2-Butanone	**1**	**0**	**0**	**NA**	**58**
1,1,1-Trichloroethane	**1**	**0**	**0**	**NA**	**54**
Carbon Tetrachloride	**1**	**0**	**0**	**NA**	**54**
Vinyl Acetate	1	0	0	NA	55
Bromodichloromethane	**1**	**0**	**0**	**NA**	**53**
Methylcyclohexane	**1**	**0**	**0**	**NA**	**55**
Dibromomethane	1	0	0	NA	53
1,2-Dichloropropane	**1**	**0**	**0**	**NA**	**53**
Trichloroethene	**1**	**0**	**0**	**NA**	**54**
Benzene	**1**	**0**	**0**	**NA**	**52**
tert-Amyl methyl ether	1	0	0	NA	52
Iso-propylacetate	1	0	0	NA	54
Methyl methacrylate	1	0	0	NA	55
Dibromochloromethane	**1**	**0**	**0**	**NA**	**52**
2-Chloroethylvinylether	1	0	0	NA	224
cis-1,3-Dichloropropene	**1**	**0**	**0**	**NA**	**53**
trans-1,3-Dichloropropene	**1**	**0**	**0**	**NA**	**53**
Ethyl methacrylate	1	0	0	NA	55
1,1,2-Trichloroethane	**1**	**0**	**0**	**NA**	**52**
1,2-Dibromoethane	**1**	**0**	**0**	**NA**	**52**
1,3-Dichloropropane	1	0	0	NA	53
4-Methyl-2-Pentanone	**1**	**0**	**0**	**NA**	**69**
2-Hexanone	**1**	**0**	**0**	**NA**	**54**
Tetrachloroethene	**1**	**0**	**0**	**NA**	**53**
Toluene	**1**	**0**	**0**	**NA**	**53**
1,1,1,2-Tetrachloroethane	1	0	0	NA	53
Chlorobenzene	**1**	**0**	**0**	**NA**	**53**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: MBS109429

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	0	0	NA	72
n-Amyl acetate	1	0	0	NA	72
Bromoform	1	0	0	NA	54
Ethylbenzene	1	0	0	NA	57
1,1,2,2-Tetrachloroethane	1	0	0	NA	58
Styrene	1	0	0	NA	56
m&p-Xylenes	1	0	0	NA	107
o-Xylene	1	0	0	NA	55
trans-1,4-Dichloro-2-butene	1	0	0	NA	71
1,3-Dichlorobenzene	1	0	0	NA	53
1,4-Dichlorobenzene	1	0	0	NA	68
1,2-Dichlorobenzene	1	0	0	NA	53
Isopropylbenzene	1	0	0	NA	53
Cyclohexanone	1	0	0	NA	77
Camphene	1	0	0	NA	68
1,2,3-Trichloropropane	1	0	0	NA	54
2-Chlorotoluene	1	0	0	NA	55
p-Ethyltoluene	1	0	0	NA	56
4-Chlorotoluene	1	0	0	NA	55
n-Propylbenzene	1	0	0	NA	51
Bromobenzene	1	0	0	NA	72
1,3,5-Trimethylbenzene	1	0	0	NA	56
Butyl methacrylate	1	0	0	NA	83
t-Butylbenzene	1	0	0	NA	70
1,2,4-Trimethylbenzene	1	0	0	NA	72
sec-Butylbenzene	1	0	0	NA	54
4-Isopropyltoluene	1	0	0	NA	69
n-Butylbenzene	1	0	0	NA	55
p-Diethylbenzene	1	0	0	NA	70
1,2,4,5-Tetramethylbenzene	1	0	0	NA	51
1,2-Dibromo-3-Chloropropane	1	0	0	NA	56
Camphor	1	0	0	NA	127
Hexachlorobutadiene	1	0	0	NA	69
1,2,4-Trichlorobenzene	1	0	0	NA	87
1,2,3-Trichlorobenzene	1	0	0	NA	81
Naphthalene	1	0	0	NA	80

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

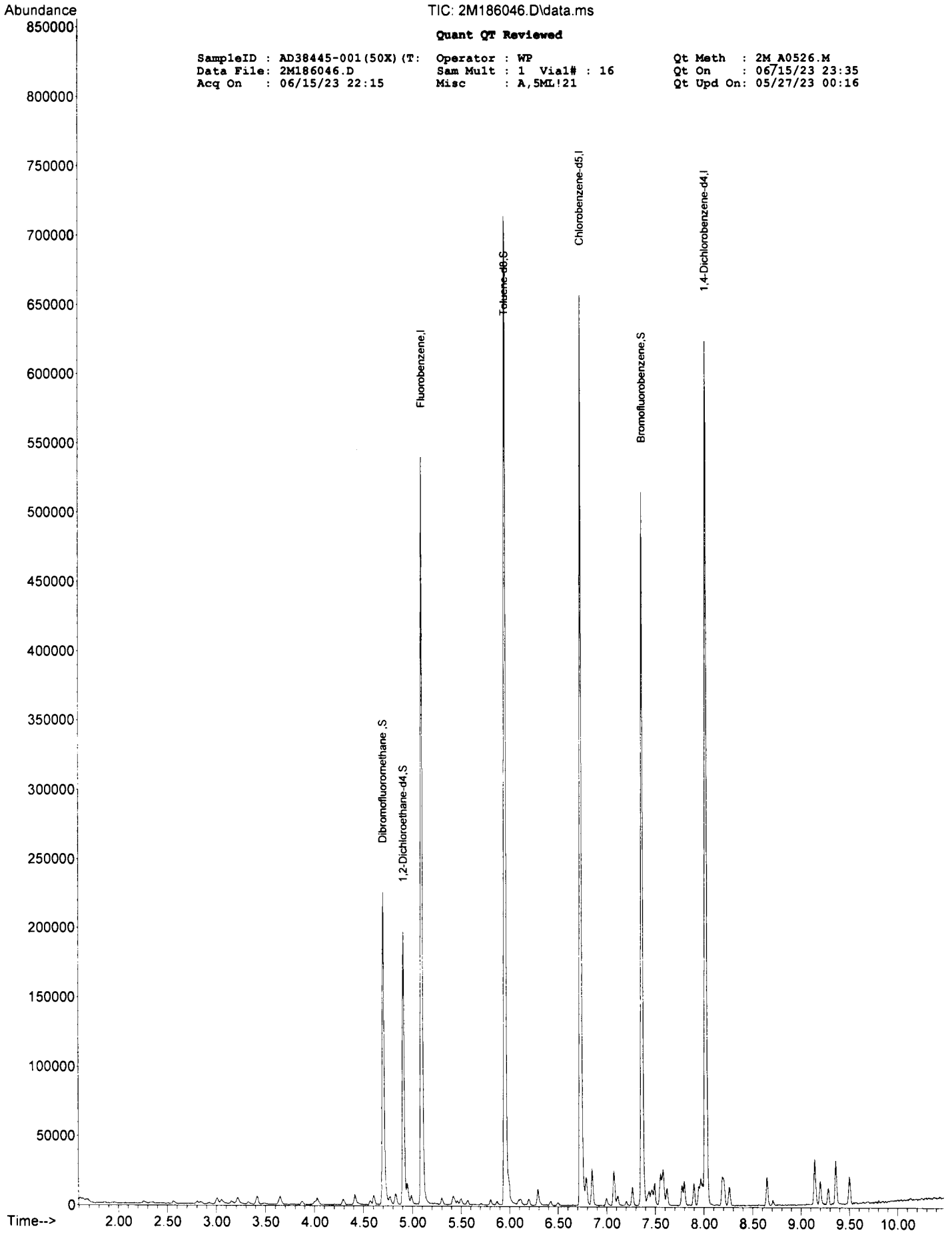
Quantitation Report (QT Reviewed)

SampleID : AD38445-001(50X)(T: Operator : WP Qt Meth : 2M_A0526.M
Data File: 2M186046.D Sam Mult : 1 Vial# : 16 Qt On : 06/15/23 23:35
Acq On : 06/15/23 22:15 Misc : A,5ML!21 Qt Upd On: 05/27/23 00:16

Data Path : G:\GcMsData\2023\GCMS_2\Data\06-15-23
Qt Path : G:\GcMsData\2023\GCMS_2\MethodQt
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.099	96	355656	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.733	117	301592	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	142246	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.702	111	91413	27.98	ug/l	0.00
Spiked Amount 30.000			Recovery = 93.27%			
39) 1,2-Dichloroethane-d4	4.910	67	49215	28.14	ug/l	0.00
Spiked Amount 30.000			Recovery = 93.80%			
66) Toluene-d8	5.952	98	371549	30.22	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.73%			
76) Bromofluorobenzene	7.367	174	122647	29.58	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.60%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M186046.D\data.ms
Quant QT Reviewed
SampleID : AD38445-001(50X)(T:
Data File: 2M186046.D
Acq On : 06/15/23 22:15
Operator : WP
Sam Mult : 1 Via1# : 16
Misc : A,5ML!21
Qt Meth : 2M_A0526.M
Qt On : 06/15/23 23:35
Qt Upd On: 05/27/23 00:16
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

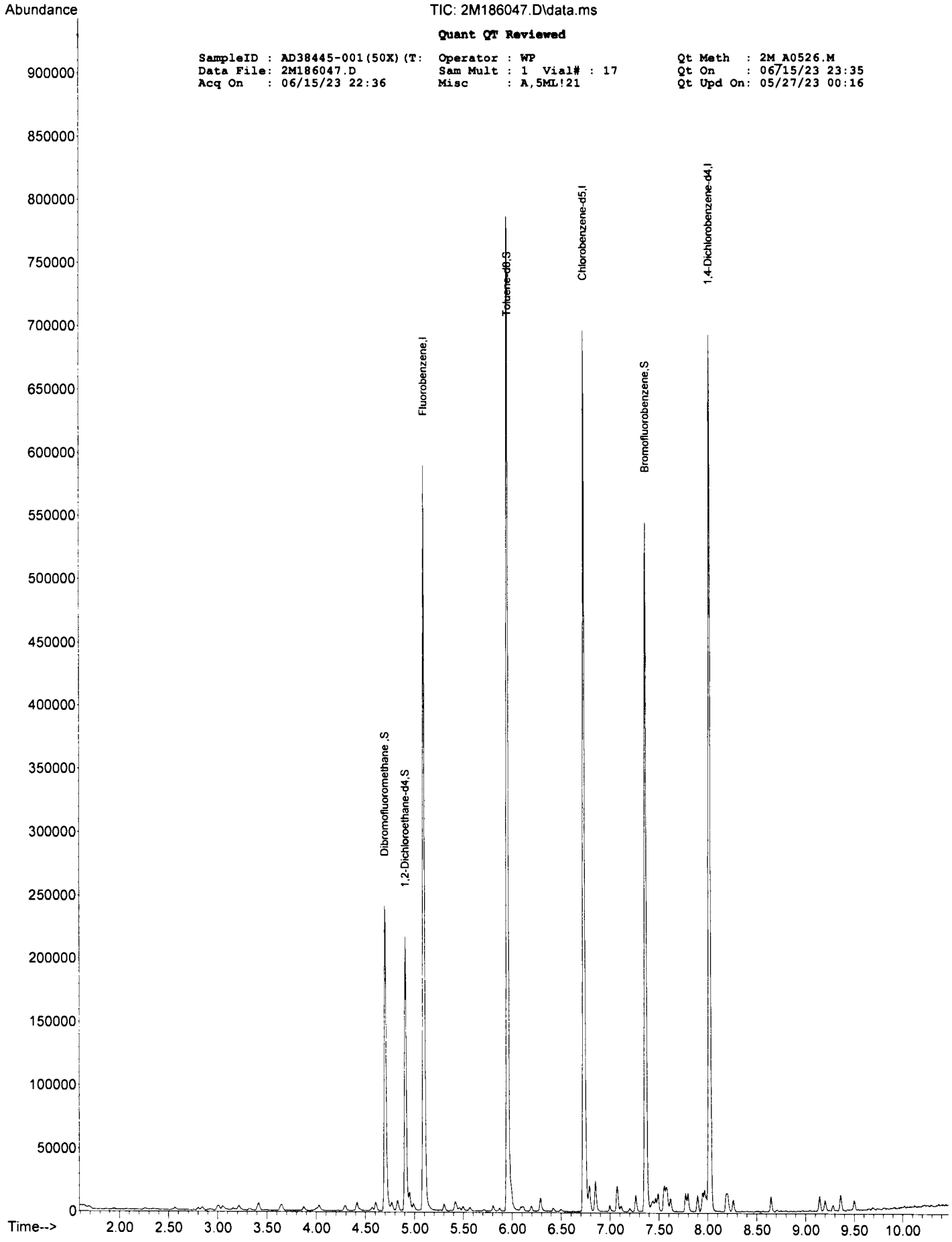
Quantitation Report (QT Reviewed)

SampleID : AD38445-001(50X)(T: Operator : WP Qt Meth : 2M_A0526.M
Data File: 2M186047.D Sam Mult : 1 Vial# : 17 Qt On : 06/15/23 23:35
Acq On : 06/15/23 22:36 Misc : A,5ML!21 Qt Upd On: 05/27/23 00:16

Data Path : G:\GcMsData\2023\GCMS_2\Data\06-15-23\
Qt Path : G:\GcMsData\2023\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.099	96	389344	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.732	117	329017	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	161176	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.702	111	97218	27.18	ug/l	0.00
Spiked Amount 30.000			Recovery = 90.60%			
39) 1,2-Dichloroethane-d4	4.910	67	54751	28.59	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.30%			
66) Toluene-d8	5.958	98	405615	30.24	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.80%			
76) Bromofluorobenzene	7.367	174	136422	29.04	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.80%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M186047.D\data.ms
Quant QT Reviewed
SampleID : AD38445-001(50X)(T:
Data File: 2M186047.D
Acq On : 06/15/23 22:36
Operator : WP
Sam Mult : 1 Vial# : 17
Misc : A,5ML!21
Qt Meth : 2M_A0526.M
Qt On : 06/15/23 23:35
Qt Upd On: 05/27/23 00:16
900000
850000
800000
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->
2.00
2.50
3.00
3.50
4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
8.00
8.50
9.00
9.50
10.00

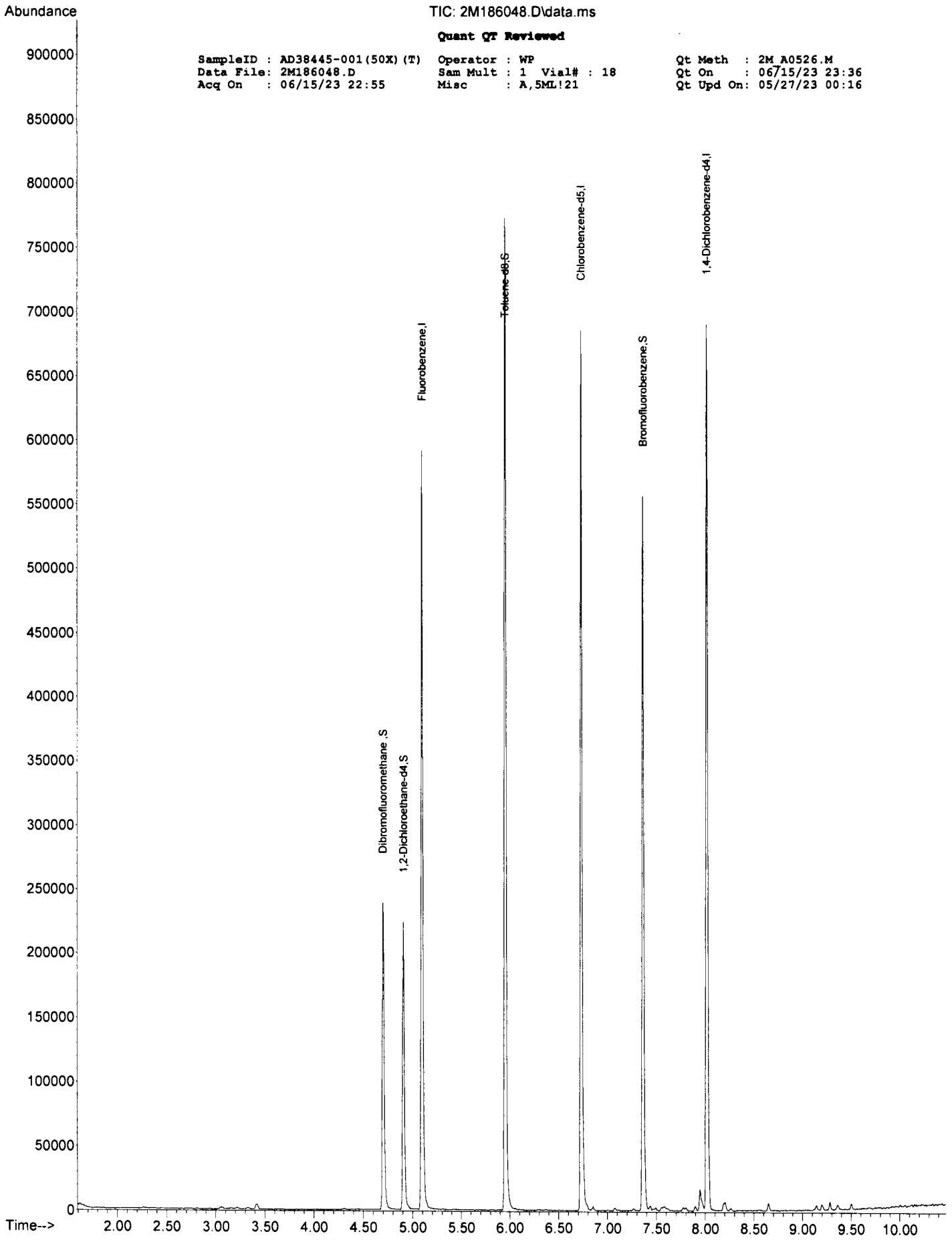
Quantitation Report (QT Reviewed)

SampleID : AD38445-001(50X)(T) Operator : WP Qt Meth : 2M_A0526.M
Data File: 2M186048.D Sam Mult : 1 Vial# : 18 Qt On : 06/15/23 23:36
Acq On : 06/15/23 22:55 Misc : A,5ML!21 Qt Upd On: 05/27/23 00:16

Data Path : G:\GcMsData\2023\GCMS_2\Data\06-15-23\
Qt Path : G:\GcMsData\2023\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.099	96	380256	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.732	117	325398	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	159982	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.702	111	98367	28.16	ug/l	0.00
Spiked Amount 30.000			Recovery = 93.87%			
39) 1,2-Dichloroethane-d4	4.910	67	54879	29.34	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.80%			
66) Toluene-d8	5.952	98	396254	29.87	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.57%			
76) Bromofluorobenzene	7.367	174	137047	29.39	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.97%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M186048.D\data.ms
Quant QT Reviewed
SampleID : AD38445-001(50X)(T)
Data File: 2M186048.D
Acq On : 06/15/23 22:55
Operator : WP
Sam Mult : 1 Vial# : 18
Misc : A,5ML!21
Qt Meth : 2M_A0526.M
Qt On : 06/15/23 23:36
Qt Upd On: 05/27/23 00:16
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
900000
850000
800000
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
Time-->
2.00
2.50
3.00
3.50
4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
8.00
8.50
9.00
9.50
10.00

Form3
Recovery Data Laboratory Limits
QC Batch: MBS110001

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M169571.D	AD38586-007(MS:AD38586-001	6/16/2023 1:32:00 PM
Non Spike(If applicable):	6M169566.D	AD38586-001	6/16/2023 11:41:00 AM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	47.5405	0	50	95	10	168
Dichlorodifluoromethane	1	45.1509	0	50	90	10	150
Chloromethane	1	33.7443	0	50	67	12	150
Bromomethane	1	13.9801	0	50	28	23	136
Vinyl Chloride	1	27.3674	0	50	55	21	153
Chloroethane	1	24.4298	0	50	49	33	147
Trichlorofluoromethane	1	32.3878	0	50	65	29	156
Ethyl ether	1	17.1939	0	50	34	10	141
Furan	1	19.7461	0	50	39	22	152
1,1,2-Trichloro-1,2,2-trifluoroethane	1	34.3224	0	50	69	32	149
Methylene Chloride	1	13.0288	0	50	26*	35	147
Acrolein	1	60.0346	0	200	30	10	149
Acrylonitrile	1	6.8249	0	50	14*	20	130
Iodomethane	1	3.7191	0	50	7.4*	10	152
Acetone	1	130.918	0	200	65	22	222
Carbon Disulfide	1	11.2664	0	50	23	18	135
t-Butyl Alcohol	1	135.7447	0	200	68	38	178
n-Hexane	1	15.1392	0	50	30	11	154
Di-isopropyl-ether	1	26.9381	0	50	54	38	150
1,1-Dichloroethene	1	21.3125	0	50	43	31	165
Methyl Acetate	1	18.1317	0	50	36	10	237
Methyl-t-butyl ether	1	30.4895	0	50	61	40	151
1,1-Dichloroethane	1	22.5476	0	50	45	41	149
trans-1,2-Dichloroethene	1	9.1793	0	50	18*	33	150
Ethyl-t-butyl ether	1	26.0405	0	50	52	22	184
cis-1,2-Dichloroethene	1	9.8448	0	50	20*	33	146
Bromochloromethane	1	6.3514	0	50	13*	38	143
2,2-Dichloropropane	1	33.0386	0	50	66	38	161
Ethyl acetate	1	6.5826	0	50	13	10	130
1,4-Dioxane	1	1255.385	0	2500	50	35	151
1,1-Dichloropropene	1	11.101	0	50	22*	34	149
Chloroform	1	15.3977	0	50	31*	41	145
Cyclohexane	1	26.5214	0	50	53	25	148
1,2-Dichloroethane	1	5.5723	0	50	11*	37	143
2-Butanone	1	16.9348	0	50	34	21	163
1,1,1-Trichloroethane	1	32.2803	0	50	65	38	149
Carbon Tetrachloride	1	28.5979	0	50	57	33	150
Vinyl Acetate	1	14.1938	0	50	28	10	112
Bromodichloromethane	1	8.6875	0	50	17*	36	146
Methylcyclohexane	1	20.3125	0	50	41	15	147
Dibromomethane	1	3.3909	0	50	6.8*	32	142
1,2-Dichloropropane	1	14.5681	0	50	29*	40	144
Trichloroethene	1	7.1499	0	50	14*	24	161
Benzene	1	14.6976	0	50	29*	38	146
tert-Amyl methyl ether	1	28.7591	0	50	58	10	240
Iso-propylacetate	1	13.9442	0	50	28	10	139
Methyl methacrylate	1	8.0384	0	50	16	10	224
Dibromochloromethane	1	5.6532	0	50	11*	32	140
2-Chloroethylvinylether	1	39.3087	0	50	79	10	266
cis-1,3-Dichloropropene	1	2.2223	0	50	4.4*	27	139
trans-1,3-Dichloropropene	1	0	0	50	0*	22	141
Ethyl methacrylate	1	3.658	0	50	7.3*	16	151
1,1,2-Trichloroethane	1	8.2029	0	50	16*	32	138
1,2-Dibromoethane	1	1.5936	0	50	3.2*	30	135
1,3-Dichloropropane	1	3.7651	0	50	7.5*	36	136
4-Methyl-2-Pentanone	1	13.7231	0	50	27	23	137
2-Hexanone	1	4.8475	0	50	9.7*	10	149
Tetrachloroethene	1	12.3399	0	50	25	24	140
Toluene	1	8.9478	0	50	18*	31	139
1,1,1,2-Tetrachloroethane	1	15.3799	0	50	31	31	134
Chlorobenzene	1	2.8648	0	50	5.7*	24	134

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS110001

Method: 8260D	Matrix: Soil		Units: mg/Kg	QC Type: MS		
Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	0	0	50	0*	10	140
n-Amyl acetate	1	0	0	50	0*	10	138
Bromoform	1	5.3588	0	50	11*	21	137
Ethylbenzene	1	8.1384	0	50	16*	29	137
1,1,2,2-Tetrachloroethane	1	10.5184	0	50	21	18	136
Styrene	1	2.2339	0	50	4.5*	14	141
m&p-Xylenes	1	14.8587	0	100	15*	18	152
o-Xylene	1	9.6305	0	50	19*	21	146
trans-1,4-Dichloro-2-butene	1	10.5554	0	50	21	11	139
1,3-Dichlorobenzene	1	0	0	50	0*	10	134
1,4-Dichlorobenzene	1	0	0	50	0*	10	132
1,2-Dichlorobenzene	1	0	0	50	0*	10	129
Isopropylbenzene	1	13.2035	0	50	26	14	150
Cyclohexanone	1	393.5367	0	250	157	10	344
Camphene	1	29.2387	0	50	58	10	137
1,2,3-Trichloropropane	1	5.9949	0	50	12*	20	133
2-Chlorotoluene	1	5.5762	0	50	11*	13	140
p-Ethyltoluene	1	5.0368	0	50	10	10	138
4-Chlorotoluene	1	0	0	50	0*	10	138
n-Propylbenzene	1	6.6602	0	50	13	10	145
Bromobenzene	1	6.004	0	50	12*	14	132
1,3,5-Trimethylbenzene	1	10.5254	0	50	21	12	146
Butyl methacrylate	1	1.6833	0	50	3.4*	10	154
t-Butylbenzene	1	17.5224	0	50	35	10	142
1,2,4-Trimethylbenzene	1	5.4725	0	50	11	10	147
sec-Butylbenzene	1	12.4166	0	50	25	10	146
4-Isopropyltoluene	1	6.9637	0	50	14	10	128
n-Butylbenzene	1	2.8321	0	50	5.7*	10	146
p-Diethylbenzene	1	2.9187	0	50	5.8*	10	142
1,2,4,5-Tetramethylbenzene	1	2.0168	0	50	4*	10	130
1,2-Dibromo-3-Chloropropane	1	4.3905	0	50	8.8*	16	126
~~Camphor~~	~~1~~	~~217.0234~~	~~0~~				
Hexachlorobutadiene	1	9.72	0	50	19	10	123
1,2,4-Trichlorobenzene	1	0	0	50	0*	10	128
1,2,3-Trichlorobenzene	1	0	0	50	0*	10	123
Naphthalene	1	1.3613	0	50	2.7*	10	140

MP 06129

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS110001

Data File	Sample ID:	Analysis Date
Spike or Dup: 6M169572.D	AD38586-008(MSD:AD38586-0	6/16/2023 1:54:00 PM
Non Spike(If applicable): 6M169566.D	AD38586-001	6/16/2023 11:41:00 AM
Inst Blank(If applicable):		

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	46.1556	0	50	92	10	168
Dichlorodifluoromethane	1	53.61	0	50	107	10	150
Chloromethane	1	38.3882	0	50	77	12	150
Bromomethane	1	15.7948	0	50	32	23	136
Vinyl Chloride	1	32.2071	0	50	64	21	153
Chloroethane	1	25.5445	0	50	51	33	147
Trichlorofluoromethane	1	40.8868	0	50	82	29	156
Ethyl ether	1	16.5489	0	50	33	10	141
Furan	1	20.0944	0	50	40	22	152
1,1,2-Trichloro-1,2,2-trifluoroethane	1	46.3179	0	50	93	32	149
Methylene Chloride	1	13.5538	0	50	27*	35	147
Acrolein	1	62.456	0	200	31	10	149
Acrylonitrile	1	10.1251	0	50	20	20	130
Iodomethane	1	3.9965	0	50	8*	10	152
Acetone	1	148.3561	0	200	74	22	222
Carbon Disulfide	1	14.8382	0	50	30	18	135
t-Butyl Alcohol	1	152.2016	0	200	76	38	178
n-Hexane	1	29.2858	0	50	59	11	154
Di-isopropyl-ether	1	30.5463	0	50	61	38	150
1,1-Dichloroethene	1	24.2401	0	50	48	31	165
Methyl Acetate	1	15.7326	0	50	31	10	237
Methyl-t-butyl ether	1	35.9044	0	50	72	40	151
1,1-Dichloroethane	1	24.0291	0	50	48	41	149
trans-1,2-Dichloroethene	1	9.3774	0	50	19*	33	150
Ethyl-t-butyl ether	1	30.7302	0	50	61	22	184
cis-1,2-Dichloroethene	1	9.9754	0	50	20*	33	146
Bromochloromethane	1	6.4755	0	50	13*	38	143
2,2-Dichloropropane	1	38.8895	0	50	78	38	161
Ethyl acetate	1	6.8372	0	50	14	10	130
1,4-Dioxane	1	1526.333	0	2500	61	35	151
1,1-Dichloropropene	1	13.2824	0	50	27*	34	149
Chloroform	1	16.1026	0	50	32*	41	145
Cyclohexane	1	38.4574	0	50	77	25	148
1,2-Dichloroethane	1	5.4361	0	50	11*	37	143
2-Butanone	1	17.09	0	50	34	21	163
1,1,1-Trichloroethane	1	38.7395	0	50	77	38	149
Carbon Tetrachloride	1	37.9611	0	50	76	33	150
Vinyl Acetate	1	16.2433	0	50	32	10	112
Bromodichloromethane	1	8.7975	0	50	18*	36	146
Methylcyclohexane	1	32.7463	0	50	65	15	147
Dibromomethane	1	3.3257	0	50	6.7*	32	144
1,2-Dichloropropane	1	15.7339	0	50	31*	40	144
Trichloroethene	1	6.7762	0	50	14*	24	161
Benzene	1	15.2081	0	50	30*	38	146
tert-Amyl methyl ether	1	34.5391	0	50	69	10	240
Iso-propylacetate	1	18.3075	0	50	37	10	139
Methyl methacrylate	1	8.1747	0	50	16	10	224
Dibromochloromethane	1	7.0352	0	50	14*	32	140
2-Chloroethylvinylether	1	29.1207	0	50	58	10	266
cis-1,3-Dichloropropene	1	2.4632	0	50	4.9*	27	139
trans-1,3-Dichloropropene	1	0	0	50	0*	22	141
Ethyl methacrylate	1	4.076	0	50	8.2*	16	151
1,1,2-Trichloroethane	1	10.0477	0	50	20*	32	138
1,2-Dibromoethane	1	1.9606	0	50	3.9*	30	135
1,3-Dichloropropane	1	4.2665	0	50	8.5*	36	136
4-Methyl-2-Pentanone	1	17.3861	0	50	35	23	137
2-Hexanone	1	6.0877	0	50	12	10	149
Tetrachloroethene	1	16.32	0	50	33	24	140
Toluene	1	9.8361	0	50	20*	31	139
1,1,1,2-Tetrachloroethane	1	23.2875	0	50	47	31	134
Chlorobenzene	1	2.9633	0	50	5.9*	24	134

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS110001

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	0	0	50	0*	10	140
n-Amyl acetate	1	0	0	50	0*	10	138
Bromoform	1	8.294	0	50	17*	21	137
Ethylbenzene	1	10.8216	0	50	22*	29	137
1,1,2,2-Tetrachloroethane	1	17.3056	0	50	35	18	136
Styrene	1	2.9806	0	50	6*	14	141
m&p-Xylenes	1	19.7297	0	100	20	18	152
o-Xylene	1	13.842	0	50	28	21	146
trans-1,4-Dichloro-2-butene	1	20.1836	0	50	40	11	139
1,3-Dichlorobenzene	1	0	0	50	0*	10	134
1,4-Dichlorobenzene	1	0	0	50	0*	10	132
1,2-Dichlorobenzene	1	2.4125	0	50	4.8*	10	129
Isopropylbenzene	1	19.2974	0	50	39	14	150
Cyclohexanone	1	757.2889	0	250	303	10	344
Camphene	1	59.4269	0	50	119	10	137
1,2,3-Trichloropropane	1	9.7206	0	50	19*	20	133
2-Chlorotoluene	1	7.5946	0	50	15	13	140
p-Ethyltoluene	1	5.4682	0	50	11	10	138
4-Chlorotoluene	1	2.5713	0	50	5.1*	10	138
n-Propylbenzene	1	7.7646	0	50	16	10	145
Bromobenzene	1	10.3777	0	50	21	14	132
1,3,5-Trimethylbenzene	1	14.059	0	50	28	12	146
Butyl methacrylate	1	2.1707	0	50	4.3*	10	154
t-Butylbenzene	1	27.3053	0	50	55	10	142
1,2,4-Trimethylbenzene	1	6.9567	0	50	14	10	147
sec-Butylbenzene	1	16.0113	0	50	32	10	146
4-Isopropyltoluene	1	7.5897	0	50	15	10	128
n-Butylbenzene	1	2.4962	0	50	5*	10	146
p-Diethylbenzene	1	2.8875	0	50	5.8*	10	142
1,2,4,5-Tetramethylbenzene	1	2.2834	0	50	4.6*	10	130
1,2-Dibromo-3-Chloropropane	1	6.5	0	50	13*	16	126
Camphor	1	369.1471	0				
Hexachlorobutadiene	1	10.8018	0	50	22	10	123
1,2,4-Trichlorobenzene	1	0	0	50	0*	10	128
1,2,3-Trichlorobenzene	1	0	0	50	0*	10	123
Naphthalene	1	0	0	50	0*	10	140

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS110001

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M169572.D	AD38586-008(MSD:AD38586-0	6/16/2023 1:54:00 PM
Duplicate(If applicable):	6M169571.D	AD38586-007(MS:AD38586-001	6/16/2023 1:32:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	46.1556	47.5405	3	56
Dichlorodifluoromethane	**1**	**53.61**	**45.1509**	**17**	**60**
Chloromethane	**1**	**38.3882**	**33.7443**	**13**	**49**
Bromomethane	**1**	**15.7948**	**13.9801**	**12**	**38**
Vinyl Chloride	**1**	**32.2071**	**27.3674**	**16**	**47**
Chloroethane	**1**	**25.5445**	**24.4298**	**4.5**	**39**
Trichlorofluoromethane	**1**	**40.8868**	**32.3878**	**23**	**43**
Ethyl ether	1	16.5489	17.1939	3.8	106
Furan	1	20.0944	19.7461	1.7	56
1,1,2-Trichloro-1,2,2-trifluoroethane	**1**	**46.3179**	**34.3224**	**30**	**45**
Methylene Chloride	**1**	**13.5538**	**13.0288**	**3.9**	**35**
Acrolein	1	62.456	60.0346	4	129
Acrylonitrile	1	10.1251	6.8249	39	40
Iodomethane	1	3.9965	3.7191	7.2	46
Acetone	**1**	**148.3561**	**130.918**	**12**	**41**
Carbon Disulfide	**1**	**14.8382**	**11.2664**	**27**	**44**
t-Butyl Alcohol	1	152.2016	135.7447	11	38
n-Hexane	1	29.2858	15.1392	64*	52
Di-isopropyl-ether	1	30.5463	26.9381	13	36
1,1-Dichloroethene	**1**	**24.2401**	**21.3125**	**13**	**42**
Methyl Acetate	**1**	**15.7326**	**18.1317**	**14**	**43**
Methyl-t-butyl ether	**1**	**35.9044**	**30.4895**	**16**	**34**
1,1-Dichloroethane	**1**	**24.0291**	**22.5476**	**6.4**	**37**
trans-1,2-Dichloroethene	**1**	**9.3774**	**9.1793**	**2.1**	**40**
Ethyl-t-butyl ether	1	30.7302	26.0405	17	55
cis-1,2-Dichloroethene	**1**	**9.9754**	**9.8448**	**1.3**	**36**
Bromochloromethane	**1**	**6.4755**	**6.3514**	**1.9**	**29**
2,2-Dichloropropane	1	38.8895	33.0386	16	38
Ethyl acetate	1	6.8372	6.5826	3.8	106
1,4-Dioxane	**1**	**1526.333**	**1255.385**	**19**	**38**
1,1-Dichloropropene	1	13.2824	11.101	18	39
Chloroform	**1**	**16.1026**	**15.3977**	**4.5**	**31**
Cyclohexane	**1**	**38.4574**	**26.5214**	**37**	**44**
1,2-Dichloroethane	**1**	**5.4361**	**5.5723**	**2.5**	**29**
2-Butanone	**1**	**17.09**	**16.9348**	**0.91**	**46**
1,1,1-Trichloroethane	**1**	**38.7395**	**32.2803**	**18**	**36**
Carbon Tetrachloride	**1**	**37.9611**	**28.5979**	**28**	**37**
Vinyl Acetate	1	16.2433	14.1938	13	44
Bromodichloromethane	**1**	**8.7975**	**8.6875**	**1.3**	**32**
Methylcyclohexane	**1**	**32.7463**	**20.3125**	**47***	**45**
Dibromomethane	1	3.3257	3.3909	1.9	30
1,2-Dichloropropane	**1**	**15.7339**	**14.5681**	**7.7**	**31**
Trichloroethene	**1**	**6.7762**	**7.1499**	**5.4**	**36**
Benzene	**1**	**15.2081**	**14.6976**	**3.4**	**33**
tert-Amyl methyl ether	1	34.5391	28.7591	18	29
Iso-propylacetate	1	18.3075	13.9442	27	117
Methyl methacrylate	1	8.1747	8.0384	1.7	68
Dibromochloromethane	**1**	**7.0352**	**5.6532**	**22**	**35**
2-Chloroethylvinylether	1	29.1207	39.3087	30	167
cis-1,3-Dichloropropene	**1**	**2.4632**	**2.2223**	**10**	**36**
trans-1,3-Dichloropropene	**1**	**0**	**0**	**NA**	**37**
Ethyl methacrylate	1	4.076	3.658	11	46
1,1,2-Trichloroethane	**1**	**10.0477**	**8.2029**	**20**	**41**
1,2-Dibromoethane	**1**	**1.9606**	**1.5936**	**21**	**34**
1,3-Dichloropropane	1	4.2665	3.7651	12	33
4-Methyl-2-Pentanone	**1**	**17.3861**	**13.7231**	**24**	**57**
2-Hexanone	**1**	**6.0877**	**4.8475**	**23**	**63**
Tetrachloroethene	**1**	**16.32**	**12.3399**	**28**	**40**
Toluene	**1**	**9.8361**	**8.9478**	**9.5**	**38**
1,1,1,2-Tetrachloroethane	1	23.2875	15.3799	41*	35
Chlorobenzene	**1**	**2.9633**	**2.8648**	**3.4**	**38**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: MBS110001

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	0	0	NA	134
n-Amyl acetate	1	0	0	NA	166
Bromoform	1	8.294	5.3588	43*	37
Ethylbenzene	1	10.8216	8.1384	28	36
1,1,2,2-Tetrachloroethane	1	17.3056	10.5184	49*	40
Styrene	1	2.9806	2.2339	29	45
m&p-Xylenes	1	19.7297	14.8587	28	44
o-Xylene	1	13.842	9.6305	36	43
trans-1,4-Dichloro-2-butene	1	20.1836	10.5554	63*	39
1,3-Dichlorobenzene	1	0	0	NA	46
1,4-Dichlorobenzene	1	0	0	NA	47
1,2-Dichlorobenzene	1	2.4125	0	200*	47
Isopropylbenzene	1	19.2974	13.2035	37	46
Cyclohexanone	1	757.2889	393.5367	63	63
Camphene	1	59.4269	29.2387	68*	54
1,2,3-Trichloropropane	1	9.7206	5.9949	47*	38
2-Chlorotoluene	1	7.5946	5.5762	31	47
p-Ethyltoluene	1	5.4682	5.0368	8.2	58
4-Chlorotoluene	1	2.5713	0	200*	48
n-Propylbenzene	1	7.7646	6.6602	15	46
Bromobenzene	1	10.3777	6.004	53*	41
1,3,5-Trimethylbenzene	1	14.059	10.5254	29	45
Butyl methacrylate	1	2.1707	1.6833	25	83
t-Butylbenzene	1	27.3053	17.5224	44	46
1,2,4-Trimethylbenzene	1	6.9567	5.4725	24	49
sec-Butylbenzene	1	16.0113	12.4166	25	49
4-Isopropyltoluene	1	7.5897	6.9637	8.6	51
n-Butylbenzene	1	2.4962	2.8321	13	55
p-Diethylbenzene	1	2.8875	2.9187	1.1	55
1,2,4,5-Tetramethylbenzene	1	2.2834	2.0168	12	59
1,2-Dibromo-3-Chloropropane	1	6.5	4.3905	39	43
~~Camphor~~	~~1~~	~~369.1474~~	~~217.0234~~	~~52~~	
Hexachlorobutadiene	1	10.8018	9.72	11	56
1,2,4-Trichlorobenzene	1	0	0	NA	58
1,2,3-Trichlorobenzene	1	0	0	NA	60
Naphthalene	1	0	1.3613	200*	70

NP 061209

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

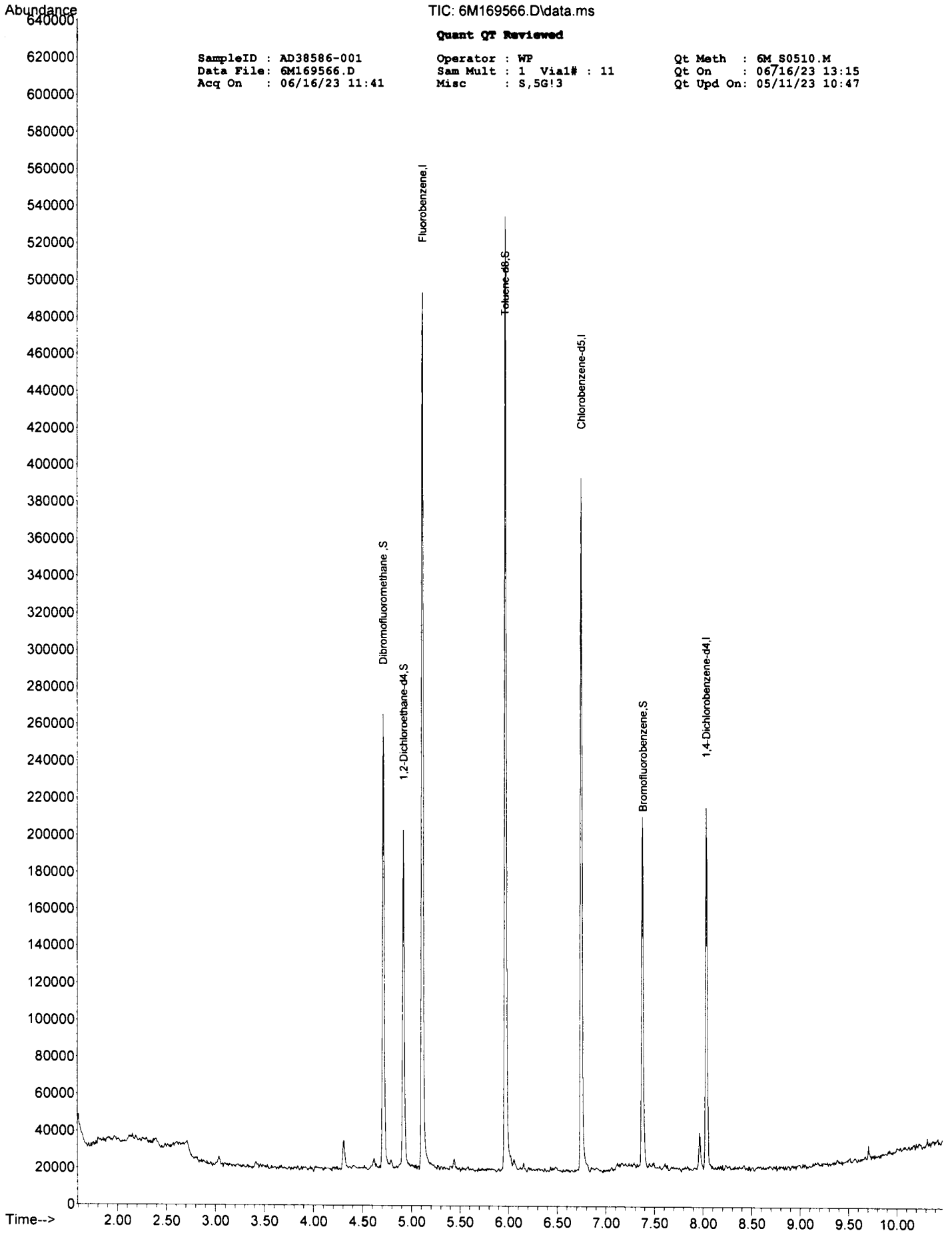
Quantitation Report (QT Reviewed)

SampleID : AD38586-001 Operator : WP Qt Meth : 6M_S0510.M
Data File: 6M169566.D Sam Mult : 1 Vial# : 11 Qt On : 06/16/23 13:15
Acq On : 06/16/23 11:41 Misc : S,5G!3 Qt Upd On: 05/11/23 10:47

Data Path : G:\GcMsData\2023\GCMS_6\Data\06-16-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.117	96	299919	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.751	117	159385	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.037	152	42070	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.715	111	100450	37.28	ug/l	0.00
Spiked Amount 30.000			Recovery = 124.27%			
39) 1,2-Dichloroethane-d4	4.922	67	44221	31.07	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.57%			
66) Toluene-d8	5.971	98	251103	36.30	ug/l	0.00
Spiked Amount 30.000			Recovery = 121.00%			
76) Bromofluorobenzene	7.385	174	42646	40.79	ug/l	0.00
Spiked Amount 30.000			Recovery = 135.97%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed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Quant QT Reviewed
SampleID : AD38586-001
Data File: 6M169566.D
Acq On : 06/16/23 11:41
Operator : WP
Sam Mult : 1 Vial# : 11
Misc : S,5G!3
Qt Meth : 6M_S0510.M
Qt On : 06/16/23 13:15
Qt Upd On: 05/11/23 10:47
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Quantitation Report (QT Reviewed)

SampleID : AD38586-007(MS:AD38 Operator : WP Qt Meth : 6M_S0510.M
Data File: 6M169571.D Sam Mult : 1 Vial# : 16 Qt On : 06/16/23 17:27
Acq On : 06/16/23 13:32 Misc : S,5G!5 Qt Upd On: 05/11/23 10:47

Data Path : G:\GcMsData\2023\GCMS_6\Data\06-16-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.117	96	385090	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.750	117	244542	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.037	152	86499m	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.714	111	114333	33.05	ug/l	0.00
Spiked Amount 30.000			Recovery = 110.17%			
39) 1,2-Dichloroethane-d4	4.922	67	51703	28.30	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.33%			
66) Toluene-d8	5.970	98	356841	33.62	ug/l	0.00
Spiked Amount 30.000			Recovery = 112.07%			
76) Bromofluorobenzene	7.385	174	83282	38.74	ug/l	0.00
Spiked Amount 30.000			Recovery = 129.13%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.648	51	113217	47.5405	ug/l	57
6) Dichlorodifluoromethane	1.636	85	90094	45.1509	ug/l	100
7) Chloromethane	1.812	50	109045	33.7443	ug/l	99
8) Bromomethane	2.227	94	22578	13.9801	ug/l	97
9) Vinyl Chloride	1.916	62	71054	27.3674	ug/l	98
10) Chloroethane	2.318	64	42812	24.4298	ug/l	88
11) Trichlorofluoromethane	2.550	101	104089m	32.3878	ug/l	
12) Ethyl ether	2.794	59	39012m	17.1939	ug/l	
13) Furan	2.837	39	67663m	19.7461	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	3.007	101	62224m	34.3224	ug/l	
15) Methylene Chloride	3.422	84	36243m	13.0288	ug/l	
16) Acrolein	2.910	56	29793m	60.0346	ug/l	
17) Acrylonitrile	3.623	53	7242m	6.8249	ug/l	
18) Iodomethane	3.154	142	6254m	3.7191	ug/l	
19) Acetone	3.038	43	101892m	130.9180	ug/l	
20) Carbon Disulfide	3.221	76	66253m	11.2664	ug/l	
21) t-Butyl Alcohol	3.483	59	41002m	135.7447	ug/l	
22) n-Hexane	3.897	57	36013m	15.1392	ug/l	
23) Di-isopropyl-ether	4.050	45	180604m	26.9381	ug/l	
24) 1,1-Dichloroethene	3.013	61	64510m	21.3125	ug/l	
25) Methyl Acetate	3.324	43	43082m	18.1317	ug/l	
26) Methyl-t-butyl ether	3.660	73	179748m	30.4895	ug/l	
27) 1,1-Dichloroethane	4.013	63	94762m	22.5476	ug/l	
28) trans-1,2-Dichloroethene	3.666	96	20828m	9.1793	ug/l	
29) Ethyl-t-butyl ether	4.050	59	22037m	26.0405	ug/l	
30) cis-1,2-Dichloroethene	4.428	61	41576m	9.8448	ug/l	
31) Bromochloromethane	4.580	49	13776m	6.3514	ug/l	
32) 2,2-Dichloropropane	4.434	77	95552m	33.0386	ug/l	
33) Ethyl acetate	4.452	43	18630m	6.5826	ug/l	
34) 1,4-Dioxane	5.507	88	50808m	1255.3855	ug/l	
35) 1,1-Dichloropropene	4.842	75	33555m	11.1010	ug/l	
36) Chloroform	4.617	83	72426m	15.3977	ug/l	
38) Cyclohexane	4.794	56	75374m	26.5214	ug/l	
40) 1,2-Dichloroethane	4.964	62	20310m	5.5723	ug/l	
41) 2-Butanone	4.422	43	22530m	16.9348	ug/l	
42) 1,1,1-Trichloroethane	4.751	97	109349m	32.2803	ug/l	
43) Carbon Tetrachloride	4.854	117	85612m	28.5979	ug/l	
44) Vinyl Acetate	4.050	43	90592m	14.1938	ug/l	
45) Bromodichloromethane	5.580	83	33138m	8.6875	ug/l	
46) Methylcyclohexane	5.440	83	64495m	20.3125	ug/l	
47) Dibromomethane	5.513	174	6654m	3.3909	ug/l	
48) 1,2-Dichloropropane	5.440	63	39383m	14.5681	ug/l	
49) Trichloroethene	5.324	130	18574m	7.1499	ug/l	
50) Benzene	4.964	78	143307m	14.6976	ug/l	
51) tert-Amyl methyl ether	5.013	73	158677m	28.7591	ug/l	
53) Iso-propylacetate	4.964	43	58207m	13.9442	ug/l	
54) Methyl methacrylate	5.470	41	15574m	8.0384	ug/l	
55) Dibromochloromethane	6.433	129	15612	5.6532	ug/l	92
56) 2-Chloroethylvinylether	5.720	63	297	39.3087	ug/l	56
57) cis-1,3-Dichloropropene	5.818	75	8102m	2.2223	ug/l	
58) trans-1,3-Dichloropropene	6.104	75	3802m	1.1424	ug/l	
59) Ethyl methacrylate	6.123	41	7679m	3.6580	ug/l	
60) 1,1,2-Trichloroethane	6.208	97	18989m	8.2029	ug/l	
61) 1,2-Dibromoethane	6.513	107	3893m	1.5936	ug/l	
62) 1,3-Dichloropropane	6.305	76	14692m	3.7651	ug/l	
63) 4-Methyl-2-Pentanone	5.885	43	30763m	13.7231	ug/l	
64) 2-Hexanone	6.318	43	8089m	4.8475	ug/l	
65) Tetrachloroethene	6.312	164	20659m	12.3399	ug/l	
67) Toluene	6.007	92	48652m	8.9478	ug/l	

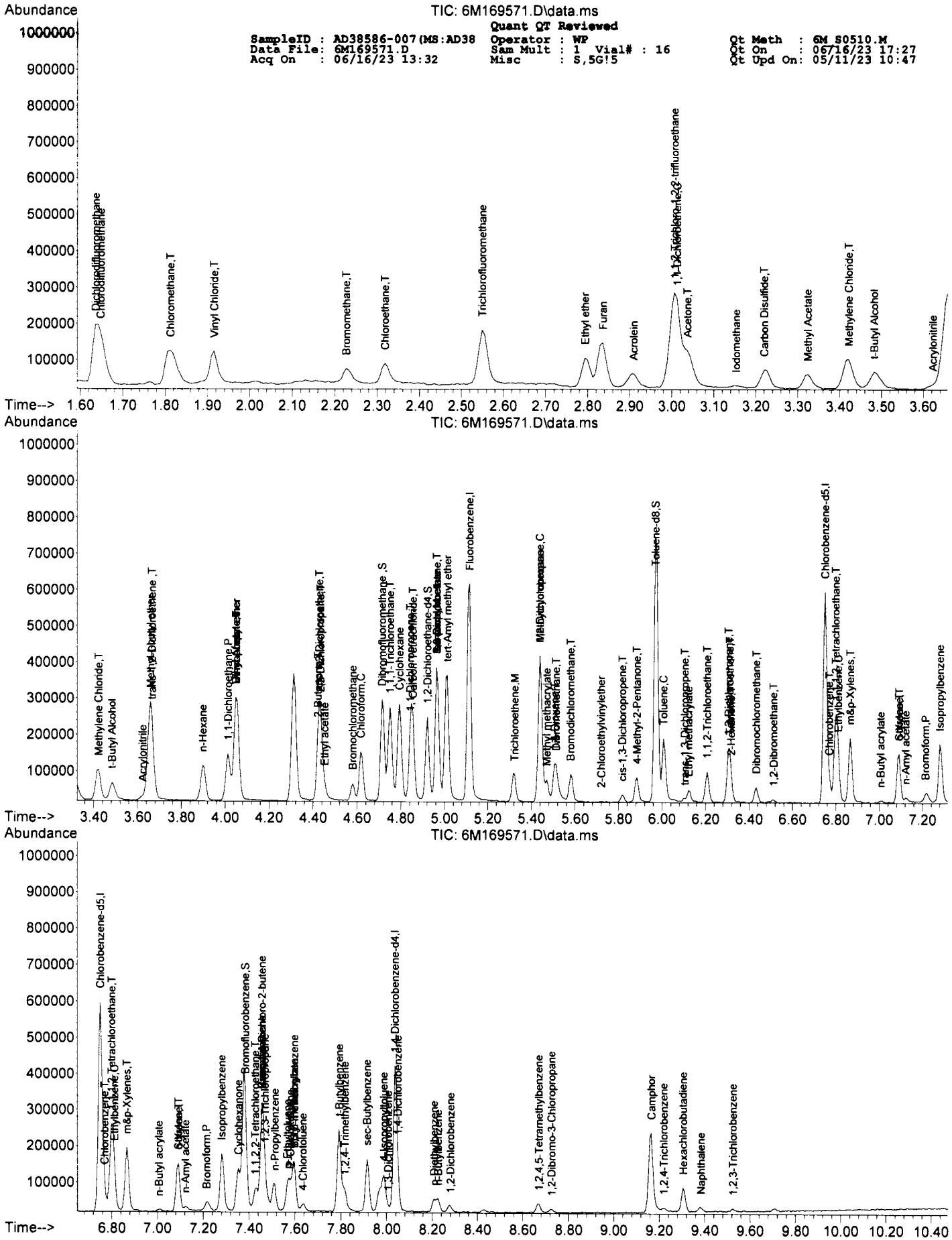
Quantitation Report (QT Reviewed)

SampleID : AD38586-007(MS:AD38 Operator : WP Qt Meth : 6M_S0510.M
Data File: 6M169571.D Sam Mult : 1 Vial# : 16 Qt On : 06/16/23 17:27
Acq On : 06/16/23 13:32 **Misc : S,5G!5** **Qt Upd On: 05/11/23 10:47**

Data Path : G:\GcMsData\2023\GCMS_6\Data\06-16-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.799	133	34922m	15.3799	ug/l	
69)	Chlorobenzene	6.769	112	17946m	2.8648	ug/l	
71)	n-Butyl acrylate	7.007	55	2819m	1.0311	ug/l	
72)	n-Amyl acetate	7.122	43	2844m	1.1640	ug/l	
73)	Bromoform	7.214	173	7118m	5.3588	ug/l	
74)	Ethylbenzene	6.811	106	13050m	8.1384	ug/l	
75)	1,1,2,2-Tetrachloroethane	7.427	83	23289m	10.5184	ug/l	
77)	Styrene	7.092	104	9235m	2.2339	ug/l	
78)	m&p-Xylenes	6.866	106	35459m	14.8587	ug/l	
79)	o-Xylene	7.092	106	23936m	9.6305	ug/l	
80)	trans-1,4-Dichloro-2-b...	7.458	53	7696m	10.5554	ug/l	
81)	1,3-Dichlorobenzene	8.006	146	5138m	1.6124	ug/l	
82)	1,4-Dichlorobenzene	8.049	146	3606m	1.1396	ug/l	
83)	1,2-Dichlorobenzene	8.281	146	5159m	1.6359	ug/l	
84)	Isopropylbenzene	7.281	105	72054m	13.2035	ug/l	
85)	Cyclohexanone	7.354	55	34683m	393.5367	ug/l	
86)	Camphene	7.458	93	55245m	29.2387	ug/l	
87)	1,2,3-Trichloropropane	7.470	75	14894m	5.9949	ug/l	
88)	2-Chlorotoluene	7.580	91	21762m	5.5762	ug/l	
89)	p-Ethyltoluene	7.567	105	29083	5.0368	ug/l	97
90)	4-Chlorotoluene	7.635	91	6993m	1.9134	ug/l	
91)	n-Propylbenzene	7.513	91	43482m	6.6602	ug/l	
92)	Bromobenzene	7.458	77	25277m	6.0040	ug/l	
93)	1,3,5-Trimethylbenzene	7.598	105	47043m	10.5254	ug/l	
94)	Butyl methacrylate	7.598	41	2920m	1.6833	ug/l	
95)	t-Butylbenzene	7.793	119	81364m	17.5224	ug/l	
96)	1,2,4-Trimethylbenzene	7.817	105	26383m	5.4725	ug/l	
97)	sec-Butylbenzene	7.915	105	70469m	12.4166	ug/l	
98)	4-Isopropyltoluene	7.988	119	41966m	6.9637	ug/l	
99)	n-Butylbenzene	8.226	91	15190m	2.8321	ug/l	
100)	p-Diethylbenzene	8.208	119	8223m	2.9187	ug/l	
101)	1,2,4,5-Tetramethylben...	8.671	119	9440m	2.0168	ug/l	
102)	1,2-Dibromo-3-Chloropr...	8.726	157	2273m	4.3905	ug/l	
103)	Camphor	9.165	95	43238m	217.0234	ug/l	
104)	Hexachlorobutadiene	9.305	225	9206m	9.7200	ug/l	
105)	1,2,4-Trichlorobenzene	9.220	180	1503m	0.7621	ug/l	
106)	1,2,3-Trichlorobenzene	9.524	180	1863m	0.9683	ug/l	
107)	Naphthalene	9.384	128	7317m	1.3613	ug/l	

(#) = qualifier out of range (m) = manual integration (+) = signals summed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Data File: 6M169571.D
Acq On : 06/16/23 13:32
Operator : WP
Sam Mult : 1 Vial# : 16
Misc : S,5G!5
Qt Meth : 6M_S0510.M
Qt On : 06/16/23 17:27
Qt Upd On: 05/11/23 10:47
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
Time-->

Abundance
TIC: 6M169571.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Bromochloromethane
Chloroform,C
Ethyl acetate
Fluorobenzene,I
Trichloroethene,M
Toluene-d8,S
Toluene,C
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Time-->

Abundance
TIC: 6M169571.D\data.ms
Chlorobenzene-d5,I
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
n-Propylbenzene
4-Chlorotoluene
1,3,5-Trimethylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : AD38586-008(MSD:AD3 Operator : WP Qt Meth : 6M_S0510.M
Data File: 6M169572.D Sam Mult : 1 Vial# : 17 Qt On : 06/16/23 17:27
Acq On : 06/16/23 13:54 Misc : S,5G!4 Qt Upd On: 05/11/23 10:47

Data Path : G:\GcMsData\2023\GCMS_6\Data\06-16-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.117	96	373515	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.751	117	202544	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.037	152	61383m	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.715	111	111900	33.35	ug/l	0.00
Spiked Amount 30.000			Recovery = 111.17%			
39) 1,2-Dichloroethane-d4	4.922	67	49917	28.17	ug/l	0.00
Spiked Amount 30.000			Recovery = 93.90%			
66) Toluene-d8	5.970	98	322454m	36.68	ug/l	0.00
Spiked Amount 30.000			Recovery = 122.27%			
76) Bromofluorobenzene	7.379	174	61996m	40.64	ug/l	0.00
Spiked Amount 30.000			Recovery = 135.47%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.648	51	106615	46.1556	ug/l	31
6) Dichlorodifluoromethane	1.636	85	103758	53.6100	ug/l	97
7) Chloromethane	1.813	50	120323	38.3882	ug/l	100
8) Bromomethane	2.227	94	24742	15.7948	ug/l	96
9) Vinyl Chloride	1.916	62	81106	32.2071	ug/l	100
10) Chloroethane	2.319	64	43420m	25.5445	ug/l	
11) Trichlorofluoromethane	2.550	101	127454m	40.8868	ug/l	
12) Ethyl ether	2.794	59	36420m	16.5489	ug/l	
13) Furan	2.837	39	66787m	20.0944	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	3.007	101	81447m	46.3179	ug/l	
15) Methylene Chloride	3.416	84	36570m	13.5538	ug/l	
16) Acrolein	2.910	56	30063m	62.4560	ug/l	
17) Acrylonitrile	3.623	53	10421m	10.1251	ug/l	
18) Iodomethane	3.154	142	6520m	3.9965	ug/l	
19) Acetone	3.038	43	111973m	148.3561	ug/l	
20) Carbon Disulfide	3.221	76	84634m	14.8382	ug/l	
21) t-Butyl Alcohol	3.483	59	44591m	152.2016	ug/l	
22) n-Hexane	3.898	57	67571m	29.2858	ug/l	
23) Di-isopropyl-ether	4.050	45	198639m	30.5463	ug/l	
24) 1,1-Dichloroethene	3.014	61	71166m	24.2401	ug/l	
25) Methyl Acetate	3.325	43	36258m	15.7326	ug/l	
26) Methyl-t-butyl ether	3.660	73	205309m	35.9044	ug/l	
27) 1,1-Dichloroethane	4.013	63	97953m	24.0291	ug/l	
28) trans-1,2-Dichloroethene	3.666	96	20638m	9.3774	ug/l	
29) Ethyl-t-butyl ether	4.050	59	25224m	30.7302	ug/l	
30) cis-1,2-Dichloroethene	4.428	61	40861m	9.9754	ug/l	
31) Bromochloromethane	4.580	49	13623m	6.4755	ug/l	
32) 2,2-Dichloropropane	4.434	77	109093m	38.8895	ug/l	
33) Ethyl acetate	4.452	43	18769m	6.8372	ug/l	
34) 1,4-Dioxane	5.507	88	59917m	1526.3329	ug/l	
35) 1,1-Dichloropropene	4.843	75	38942m	13.2824	ug/l	
36) Chloroform	4.617	83	73465m	16.1026	ug/l	
38) Cyclohexane	4.794	56	106011m	38.4574	ug/l	
40) 1,2-Dichloroethane	4.964	62	19218m	5.4361	ug/l	
41) 2-Butanone	4.422	43	22053m	17.0900	ug/l	
42) 1,1,1-Trichloroethane	4.751	97	127285m	38.7395	ug/l	
43) Carbon Tetrachloride	4.855	117	110226m	37.9611	ug/l	
44) Vinyl Acetate	4.050	43	100557m	16.2433	ug/l	
45) Bromodichloromethane	5.580	83	32549m	8.7975	ug/l	
46) Methylcyclohexane	5.440	83	100849m	32.7463	ug/l	
47) Dibromomethane	5.513	174	6330m	3.3257	ug/l	
48) 1,2-Dichloropropane	5.446	63	41256m	15.7339	ug/l	
49) Trichloroethene	5.318	130	17074m	6.7762	ug/l	
50) Benzene	4.964	78	143828m	15.2081	ug/l	
51) tert-Amyl methyl ether	5.013	73	184840m	34.5391	ug/l	
53) Iso-propylacetate	4.964	43	63296m	18.3075	ug/l	
54) Methyl methacrylate	5.470	41	13118m	8.1747	ug/l	
55) Dibromochloromethane	6.434	129	16092m	7.0352	ug/l	
56) 2-Chloroethylvinylether	5.727	63	170m	29.1207	ug/l	
57) cis-1,3-Dichloropropene	5.818	75	7438m	2.4632	ug/l	
58) trans-1,3-Dichloropropene	6.105	75	3359m	1.2185	ug/l	
59) Ethyl methacrylate	6.123	41	7087m	4.0760	ug/l	
60) 1,1,2-Trichloroethane	6.208	97	19265m	10.0477	ug/l	
61) 1,2-Dibromoethane	6.513	107	3967m	1.9606	ug/l	
62) 1,3-Dichloropropane	6.300	76	13789m	4.2665	ug/l	
63) 4-Methyl-2-Pentanone	5.885	43	32281m	17.3861	ug/l	
64) 2-Hexanone	6.318	43	8414m	6.0877	ug/l	
65) Tetrachloroethene	6.312	164	22630m	16.3200	ug/l	
67) Toluene	6.007	92	44297m	9.8361	ug/l	

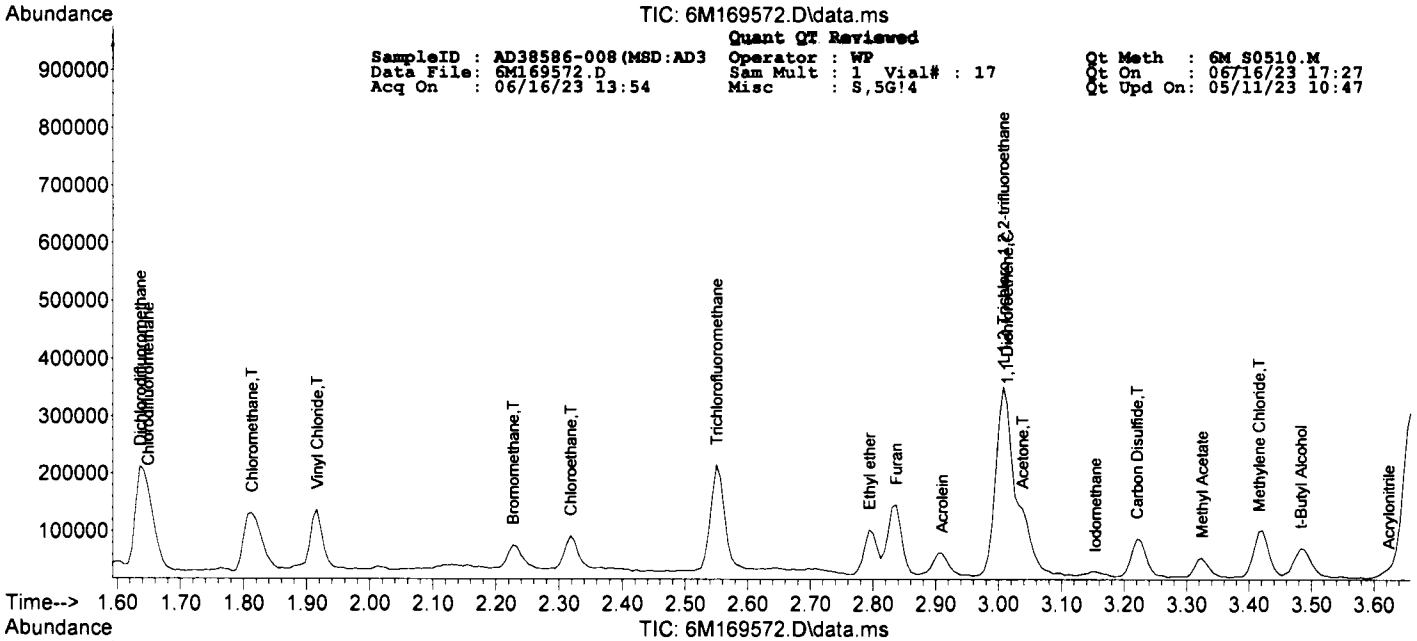
Quantitation Report (QT Reviewed)

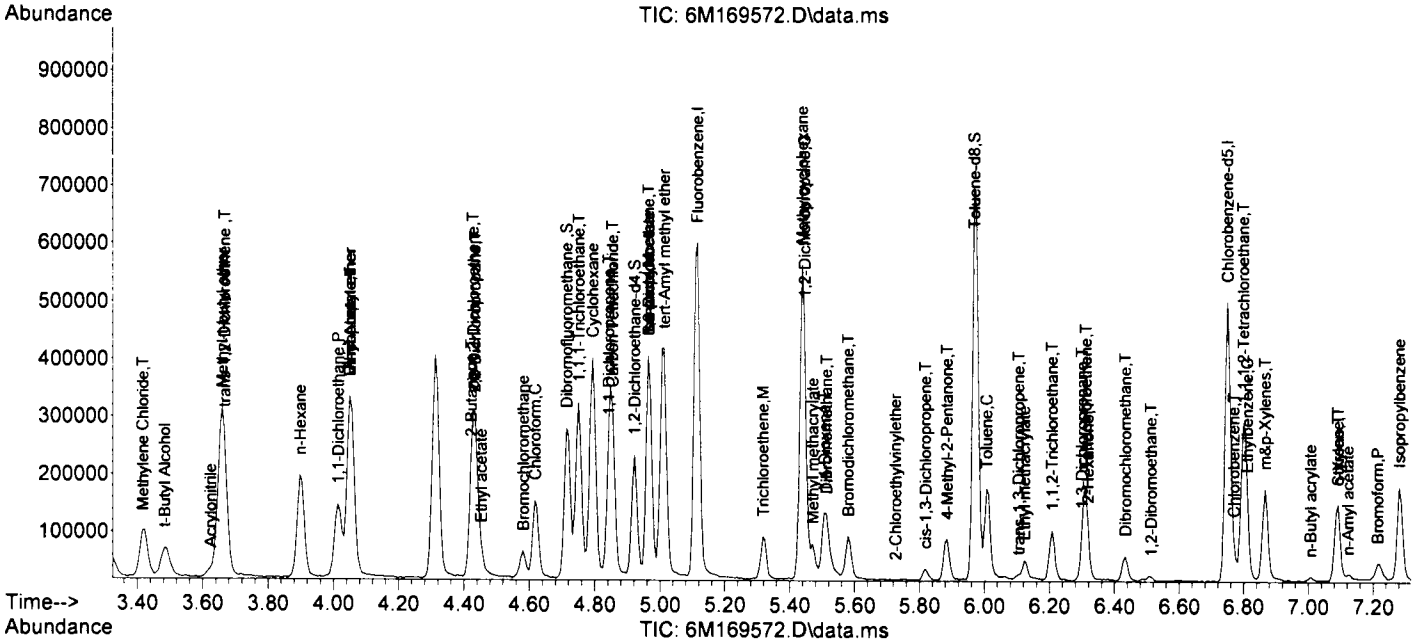
SampleID : AD38586-008(MSD:AD3 Operator : WP Qt Meth : 6M_S0510.M
Data File: 6M169572.D Sam Mult : 1 Vial# : 17 Qt On : 06/16/23 17:27
Acq On : 06/16/23 13:54 Misc : S,5G!4 Qt Upd On: 05/11/23 10:47

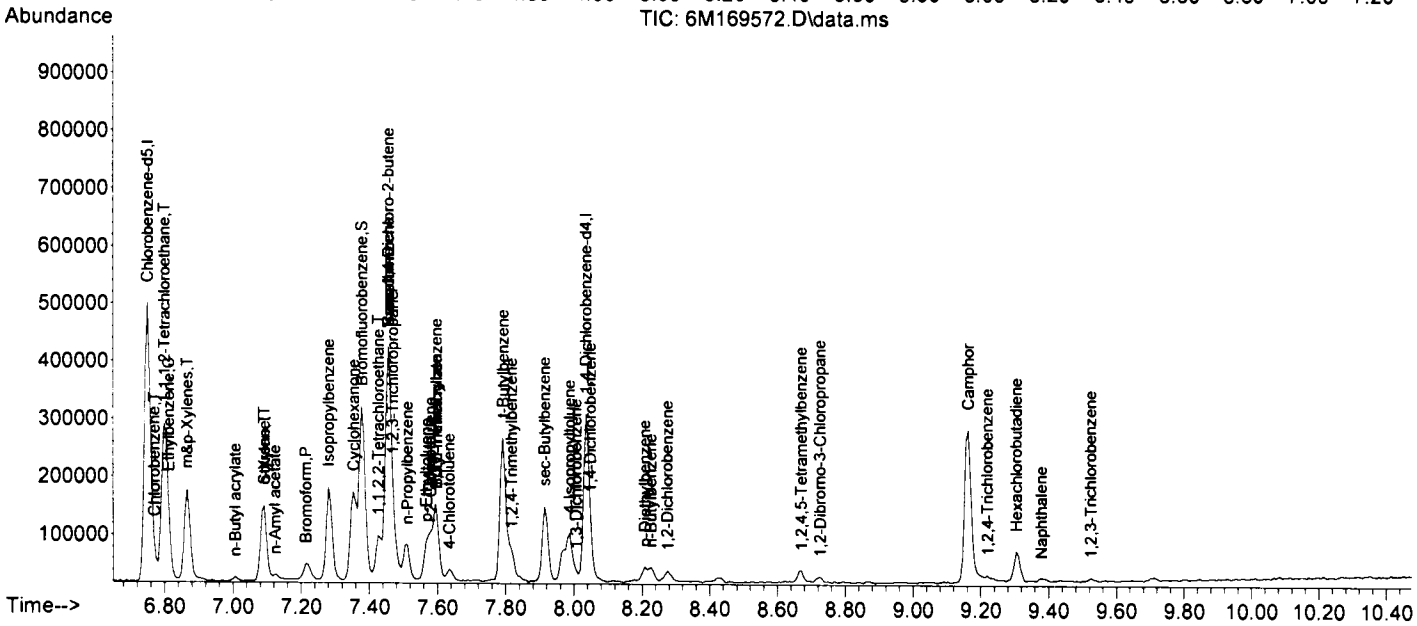
Data Path : G:\GcMsData\2023\GCMS_6\Data\06-16-23\
Qt Path : G:\GcMsData\2023\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.800	133	43796m	23.2875	ug/l	
69)	Chlorobenzene	6.769	112	15375m	2.9633	ug/l	
71)	n-Butyl acrylate	7.007	55	3093m	1.5942	ug/l	
72)	n-Amyl acetate	7.123	43	2229m	1.2856	ug/l	
73)	Bromoform	7.214	173	7818m	8.2940	ug/l	
74)	Ethylbenzene	6.812	106	12314m	10.8216	ug/l	
75)	1,1,2,2-Tetrachloroethane	7.427	83	27191m	17.3056	ug/l	
77)	Styrene	7.092	104	8744m	2.9806	ug/l	
78)	m&p-Xylenes	6.867	106	33412m	19.7297	ug/l	
79)	o-Xylene	7.092	106	24414m	13.8420	ug/l	
80)	trans-1,4-Dichloro-2-b...	7.458	53	10443m	20.1836	ug/l	
81)	1,3-Dichlorobenzene	8.007	146	4225	1.8684	ug/l	93
82)	1,4-Dichlorobenzene	8.049	146	3359	1.4959	ug/l	82
83)	1,2-Dichlorobenzene	8.275	146	5399	2.4125	ug/l	97
84)	Isopropylbenzene	7.281	105	74732	19.2974	ug/l	94
85)	Cyclohexanone	7.354	55	47362m	757.2889	ug/l	
86)	Camphene	7.458	93	79681	59.4269	ug/l	99
87)	1,2,3-Trichloropropane	7.470	75	17138m	9.7206	ug/l	
88)	2-Chlorotoluene	7.580	91	21033m	7.5946	ug/l	
89)	p-Ethyltoluene	7.568	105	22406m	5.4682	ug/l	
90)	4-Chlorotoluene	7.635	91	6669m	2.5713	ug/l	
91)	n-Propylbenzene	7.513	91	35973m	7.7646	ug/l	
92)	Bromobenzene	7.458	77	31004m	10.3777	ug/l	
93)	1,3,5-Trimethylbenzene	7.598	105	44591m	14.0590	ug/l	
94)	Butyl methacrylate	7.598	41	2672m	2.1707	ug/l	
95)	t-Butylbenzene	7.793	119	89975m	27.3053	ug/l	
96)	1,2,4-Trimethylbenzene	7.818	105	23800m	6.9567	ug/l	
97)	sec-Butylbenzene	7.915	105	64485m	16.0113	ug/l	
98)	4-Isopropyltoluene	7.988	119	32458m	7.5897	ug/l	
99)	n-Butylbenzene	8.226	91	9501m	2.4962	ug/l	
100)	p-Diethylbenzene	8.208	119	5773m	2.8875	ug/l	
101)	1,2,4,5-Tetramethylben...	8.671	119	7585m	2.2834	ug/l	
102)	1,2-Dibromo-3-Chloropr...	8.726	157	2388m	6.5000	ug/l	
103)	Camphor	9.165	95	52191m	369.1471	ug/l	
104)	Hexachlorobutadiene	9.305	225	7260m	10.8018	ug/l	
105)	1,2,4-Trichlorobenzene	9.220	180	1004m	0.7173	ug/l	
106)	1,2,3-Trichlorobenzene	9.525	180	1087m	0.7962	ug/l	
107)	Naphthalene	9.378	128	3813m	0.9996	ug/l	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M169572.D\data.ms
Quant QT Reviewed
SampleID : AD38586-008(MSD:AD3
Data File: 6M169572.D
Acq On : 06/16/23 13:54
Operator : WP
Sam Mult : 1 Vial# : 17
Misc : S,5G!4
Qt Meth : 6M_S0510.M
Qt On : 06/16/23 17:27
Qt Upd On: 05/11/23 10:47
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
Time-->


Abundance
TIC: 6M169572.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
1,1-Dichloroethane,P
Ethyl acetate
Bromochloromethane
Chloroform,C
Dibromofluoromethane,S
1,1,1-Trichloroethane,T
Cyclohexane
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene,C
Toluene-d8,S
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Ethylbenzene,T
1,1,2,2-Tetrachloroethane,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Time-->


Abundance
TIC: 6M169572.D\data.ms
Chlorobenzene-d5,I
Ethylbenzene,T
1,1,2,2-Tetrachloroethane,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
1,1,2,2-Tetrachloroethane,T
n-Propylbenzene
4-Chlorotoluene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4,I
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

GC/MS Volatile Data
Logbook Data

RUN LOG

1-1-6M167848

Instrument: GCMS_6 Year: 2023
Analyst: WP

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
6M167848.	BFB TUNE		V-389443,V-389444,V-394818	WP 05/10/23						05/10 01:41
6M167849.	BLK	IsCnBnfAnc				Soil	1	1	8260D	05/10 01:56
6M167853.	CAL @ 0.5 PPB		B-34785	WP 05/10/23		Soil	1	1	624\8260	05/10 03:10
6M167854.	CAL @ 1 PPB		B-34785	WP 05/10/23		Soil	1	1	624\8260	05/10 03:32
6M167855.	CAL @ 5 PPB		B-34785	WP 05/10/23		Soil	1	1	624\8260	05/10 03:54
6M167856.	CAL @ 2 PPB		B-34785	WP 05/10/23		Soil	1	1	624\8260	05/10 04:16
6M167857.	CAL @20 PPB		B-34785	WP 05/10/23		Soil	1	1	624\8260	05/10 04:38
6M167858.	CAL @ 50 PPB		B-34785	WP 05/10/23		Soil	1	1	624\8260	05/10 05:00
6M167859.	CAL @ 100 PPB		B-34785	WP 05/10/23		Soil	1	1	624\8260	05/10 05:21
6M167860.	CAL @ 250PPB		B-34785	WP 05/10/23		Soil	1	1	624\8260	05/10 05:43
6M167862.	CAL @ 500 PPB		B-34785	WP 05/10/23		Soil	1	1	624\8260	05/10 06:27
6M167867.	ICV	IsSdBnf	V-395196	WP 05/10/23		Soil	2.5	1	8260D	05/10 08:17

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 ... not checked
66m	Blank 600 series missing	Eto	Tclp/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for eob
88m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R18,R28	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16,I28	Initial cal 600 series failed Column 1 and or 2	R18,R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18,I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt.csv for init calibration chek.rls	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Co	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6,Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

1-1-2M185175

Instrument: GCMS_2 Year: 2023
Analyst: WP

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
2M185175.	BFB TUNE		V-389443,V-389444,V-396206	WP 05/30/23						05/26 20:59
2M185176.	CAL @ 0.5 PPB		B-34876	WP 05/30/23		Aqueous	1	1	624\8260	05/26 21:19
2M185177.	CAL @1 PPB		B-34876	WP 05/30/23		Aqueous	1	1	624\8260	05/26 21:39
2M185178.	CAL @ 5 PPB		B-34876	WP 05/30/23		Aqueous	1	1	624\8260	05/26 21:59
2M185179.	CAL @10 PPB		B-34876	WP 05/30/23		Aqueous	1	1	624\8260	05/26 22:19
2M185180.	CAL @ 20 PPB		B-34876	WP 05/30/23		Aqueous	1	1	624\8260	05/26 22:39
2M185181.	CAL @ 50 PPB		B-34876	WP 05/30/23		Aqueous	1	1	624\8260	05/26 22:59
2M185182.	CAL @100 PPB		B-34876	WP 05/30/23		Aqueous	1	1	624\8260	05/26 23:19
2M185183.	CAL @250 PPB		B-34876	WP 05/30/23		Aqueous	1	1	624\8260	05/26 23:39
2M185184.	CAL @500 PPB		B-34876	WP 05/30/23		Aqueous	1	1	624\8260	05/26 23:59
2M185189.	ICV	IsIvoBnf	V-396306	WP 05/30/23		Aqueous	1	1	624\8260	05/27 01:39

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 ... not checked
B6m	Blank 600 series missing	Eto	Tclo/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for anh
B8m	Blank 8000 series missing	Eto	Tclo Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddl or eddop
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rod Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rod Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Rn	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calnot csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Co	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

1-1-2M186035

Instrument: GCMS_2 Year: 2023
Analyst: WP

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
2M186035.	BFB TUNE		V-389443,V-389444,V-396206,V-397468	SG 06/16/23						06/15 18:26
2M186037.	20 PPB	CnAnc				Aqueous	1	1	624\8260	06/15 19:01
2M186038.	CAL @ 20 PPB		OK	SG 06/16/23		Aqueous	1	1	624\8260	06/15 19:21
2M186039.	BLK					Aqueous	1	1	624\8260	06/15 19:41
2M186040.	BLK					Aqueous	1	1	624\8260	06/15 20:01
2M186041.	DAILY BLANK		OK,V-15140	SG 06/16/23		Methano	1	1	8260D	06/15 20:21
2M186042.	DAILY BLANK		OK	SG 06/16/23		Aqueous	1	1	624\8260	06/15 20:41
2M186043.	MBS109428		MBS109428			Aqueous	1	1	624\8260	06/15 21:15
2M186044.	MBS109429		OK MBS109429	SG 06/16/23		Aqueous	1	1	624\8260	06/15 21:35
2M186045.	MBS109430		OK MBS109430	SG 06/16/23		Methano	1	1	8260D	06/15 21:55
2M186046.	AD38445-001(50X)(M16M18		OK MBS109429	SG 06/16/23	VOTCLP-826	Aqueous	1	50	624\8260	06/15 22:15
2M186047.	AD38445-001(50X)(M16M18		OK MBS109429	SG 06/16/23	VOTCLP-826	Aqueous	1	50	624\8260	06/15 22:36
2M186048.	AD38445-001(50X)(		QC MBS109429	SG 06/16/23	VOTCLP-826	Aqueous	1	50	624\8260	06/15 22:55
2M186049.	AD38586-005		OK	SG 06/16/23	VO-8260	Aqueous	1	1	8260D	06/15 23:15
2M186050.	AD38586-006		OK	SG 06/16/23	VO-8260	Aqueous	1	1	8260D	06/15 23:35
2M186051.	AD38572-001		OK 2ND RUN	SG 06/16/23	VO15-8260	Methano	1	1	8260D	06/15 23:56
2M186052.	AD38616-005		OK	SG 06/21/23	VO-624.1	Aqueous	1	1	624	06/16 00:22
2M186053.	AD38616-006		RR-1X	SG 06/16/23	VO-624.1	Aqueous	1	1	624	06/16 00:42
2M186054.	AD38616-007		RR-1X	SG 06/16/23	VO-624.1	Aqueous	1	1	624	06/16 01:03
2M186055.	AD38590-042		RR-5g	SG 06/16/23	VO-8260	Methano	1	1	8260D	06/16 01:23
2M186056.	AD38616-007		OK	SG 06/21/23	VO-624.1	Aqueous	1	1	624	06/16 01:43
2M186057.	AD38616-006		OK	SG 06/21/23	VO-624.1	Aqueous	1	1	624	06/16 02:03
2M186058.	BLK					Aqueous	1	1	624\8260	06/16 02:23
2M186059.	AD38616-004(20X)		OK	SG 06/21/23	VO-624.1	Aqueous	1	20	624	06/16 02:43
2M186060.	38590-044		RR-5G	SG 06/16/23		Methano	1	2.073	8260D	06/16 03:03
2M186061.	AD38616-003(20X)		OK	SG 06/21/23	VO-624.1	Aqueous	1	20	624	06/16 03:23
2M186062.	38590-046		RR-5g	SG 06/16/23		Methano	1	2.073	8260D	06/16 03:43
2M186063.	AD38616-002(20X)		OK	SG 06/21/23	VO-624.1	Aqueous	1	20	624	06/16 04:03
2M186064.	38590-048		RR-5g	SG 06/16/23		Methano	1	2.073	8260D	06/16 04:23
2M186065.	AD38616-001(200X)		OK	SG 06/21/23	VO-624.1	Aqueous	1	200	624	06/16 04:43
2M186066.	38590-050		RR-5g	SG 06/16/23		Methano	1	2.073	8260D	06/16 05:03
2M186067.	38590-052		RR-5g	SG 06/16/23		Methano	1	2.073	8260D	06/16 05:23
2M186068.	AD38616-009(20X)		OK	SG 06/21/23	VO-624.1	Aqueous	1	20	624	06/16 05:43
2M186069.	38590-054		RR-5g	SG 06/16/23		Methano	1	2.073	8260D	06/16 06:03
2M186070.	AD38616-008(200X)		OK	SG 06/21/23	VO-624.1	Aqueous	1	200	624	06/16 06:23
2M186071.	38590-056	Ti8	RR-5g	SG 06/16/23		Methano	1	2.073	8260D	06/16 06:43
2M186072.	38590-058	Ti8	RR-5g	SG 06/16/23		Methano	1	2.073	8260D	06/16 07:03

Anc	Area Not Checked	Fo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Fsm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Ftn	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for epb
B8m	Blank 8000 series missing	Fto	Tclp Extraction Performed Outside of Hold	FvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Fv	Eval Time Exceeded	Fvnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Fvrc	Eval Mix missing drlt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rnd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rnd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Endinn Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

1-1-6M169559

Instrument: GCMS_6 Year: 2023
Analyst: WP

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
6M169559.	BFB TUNE		V-389443,V-389444,V-396206,V-397469	WP 06/16/23						06/16 09:06
6M169560.	CAL @ 50 PPB	C16	OK	SG 06/16/23		Soil	0.4	1	624\8260	06/16 09:28
6M169561.	50 PPB	Sd				Soil	0.4	1	8260D	06/16 09:50
6M169562.	BLK					Soil	1	1	8260D	06/16 10:12
6M169563.	BLK					Soil	1	1	8260D	06/16 10:35
6M169564.	BLK					Soil	1	1	8260D	06/16 10:57
6M169565.	DAILY BLANK		OK	SG 06/16/23		Soil	1	1	8260D	06/16 11:19
6M169566.	AD38586-001	Ao	OK MBS110001	WP 06/16/23	VO-8260	Soil	1	1	8260D	06/16 11:41
6M169567.	AD38586-002	Ao	OK	WP 06/16/23	VO-8260	Soil	1	1	8260D	06/16 12:03
6M169568.	AD38586-003	Ao			ERROR	Soil	1	1	8260D	06/16 12:25
6M169569.	AD38586-004				ERROR	Soil	1	1	8260D	06/16 12:48
6M169570.	STD					Soil	1	1	8260D	06/16 13:10
6M169571.	AD38586-007(MS:	AAoM18	OK MBS110001	WP 06/16/23	VO-8260	Soil	1	1	8260D	06/16 13:32
6M169572.	AD38586-008(MSD:	AoR18M18	OK MBS110001	WP 06/16/23	VO-8260	Soil	1	1	8260D	06/16 13:54
6M169573.	MBS110001	M18	OK MBS110001	WP 06/16/23		Soil	1	1	8260D	06/16 14:17
6M169574.	BLK					Soil	1	1	8260D	06/16 14:39
6M169575.	AD38590-002		OK	WP 06/16/23	VO-8260	Soil	1	1	8260D	06/16 15:01
6M169576.	AD38590-004		OK	WP 06/16/23	VO-8260	Soil	1	1	8260D	06/16 15:23
6M169577.	AD38590-006		OK	WP 06/16/23	VO-8260	Soil	1	1	8260D	06/16 15:45
6M169578.	AD38590-008		OK	WP 06/16/23	VO-8260	Soil	1	1	8260D	06/16 16:08
6M169579.	AD38590-010		OK	WP 06/16/23	VO-8260	Soil	1	1	8260D	06/16 16:30
6M169580.	AD38590-012		OK	WP 06/16/23	VO-8260	Soil	1	1	8260D	06/16 16:52
6M169581.	AD38590-014		OK	WP 06/16/23	VO-8260	Soil	1	1	8260D	06/16 17:14
6M169582.	AD38590-016		OK	WP 06/16/23	VO-8260	Soil	1	1	8260D	06/16 17:36
6M169583.	AD38590-018		OK	WP 06/16/23	VO-8260	Soil	1	1	8260D	06/16 17:59
6M169584.	AD38590-020		OK	WP 06/16/23	VO-8260	Soil	1	1	8260D	06/16 18:21
6M169585.	AD38590-022		OK	WP 06/16/23	VO-8260	Soil	1	1	8260D	06/16 18:43
6M169586.	AD38590-024		OK	WP 06/16/23	VO-8260	Soil	1	1	8260D	06/16 19:05
6M169587.	AD38555-022		OK	WP 06/16/23	VO-8260	Soil	1	1	8260D	06/16 19:27
6M169588.	AD38555-018		OK	WP 06/16/23	VO-8260	Soil	1	1	8260D	06/16 19:49
6M169589.	BLK					Soil	1	1	8260D	06/16 20:11
6M169590.	AD38590-004		OK	WP 06/16/23	VO-8260	Soil	1	1	8260D	06/16 20:34
6M169591.	AD38557-002		OK	WP 06/16/23	VO-8260	Soil	1	1	8260D	06/16 20:56

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 ... not checked
B6m	Blank 600 series missing	Etn	Tcln/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for anh
B8m	Blank 8000 series missing	Eto	Tcln Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hh	Analysis Before Collection Date	Evm	Eval Mix missing dclf or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R28	Rnd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rnd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Dnft
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt csv for init calibration chek rls	S6	600 series surrogate out
Cme	Endinp Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-371358

Prepared By: Revolus, Jean
Department: Organics
ApprovedBy: akmal
Description: VOA ADD MIX
BatchNumber:
ApproveDate: 04/27/22
Prep Date: 4/22/2022
Concentration: 5000/25000 p
Checked: Yes
Expiration Date: 4/1/2023
Final Volume: 10 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
2889	1,2,4,5-TETRAMETHYLBENZENE	50 mg	NEAT	5000 ppm
12762	p-Diethylbenzene	50 mg	NEAT	5000 ppm
14554	Cyclohexanone	250 mg	NEAT	25000 ppm
14548	p-Ethyltoluene	50 mg	NEAT	5000 ppm
14375	Methyl Alcohol		neat neat	

Veritech Lot Number: V-371359

Prepared By: Revolus, Jean
Department: Organics
ApprovedBy: akmal
Description: Voa Extra Add Mix
BatchNumber:
ApproveDate: 04/27/22
Prep Date: 4/22/2022
Concentration: 2000-20000 p
Checked: Yes
Expiration Date: 4/1/2023
Final Volume: 10 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12763	Isopropyl acetate	20 mg	NEAT	2000 ppm
14375	Methyl Alcohol		neat neat	
13194	n-Butyl acrylate	20 mg	Neat	2000 ppm
13192	n-Amyl acetate	20 mg	NEAT	2000 ppm
13191	d-Camphor	200 mg	Neat	20000 ppm
13195	Methyl methacrylate	20 mg	Neat	2000 ppm
14553	Ethyl methacrylate	20 mg	NEAT	2000 ppm
14552	Camphene	20 mg	NEAT	2000 ppm
14550	Butyl methacrylate	20 mg	NEAT	2000 ppm
14549	Ethyl acetate	20 mg	NEAT	2000 ppm

Veritech Lot Number: V-371360

Prepared By: Revolus, Jean
Department: Organics
ApprovedBy: akmal
Description: Voa Extra Add Mix(2nd Source)
BatchNumber:
ApproveDate: 04/27/22
Prep Date: 4/26/2022
Concentration: 2000-20000 p
Checked: Yes
Expiration Date: 10/23/2022
Final Volume: 10 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12763	Isopropyl acetate	20 mg	NEAT	2000 ppm
13195	Methyl methacrylate	20 mg	Neat	2000 ppm
13192	n-Amyl acetate	20 mg	NEAT	2000 ppm
13191	d-Camphor	200 mg	Neat	20000 ppm
14375	Methyl Alcohol		neat neat	
13194	n-Butyl acrylate	20 mg	Neat	2000 ppm
14553	Ethyl methacrylate	20 mg	NEAT	2000 ppm
14552	Camphene	20 mg	NEAT	2000 ppm
14550	Butyl methacrylate	20 mg	NEAT	2000 ppm
14549	Ethyl acetate	20 mg	NEAT	2000 ppm

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-371361

Prepared By: Revolus, Jean
Description: VOA ADD MIX(2nd Sources)
Prep Date: 4/22/2022
Expiration Date: 4/1/2023
Department: Organics
BatchNumber:
Concentration: 5000/25000 p
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 04/27/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
2889	1,2,4,5-TETRAMETHYLBENZENE	50 mg	NEAT	5000 ppm
14554	Cyclohexanone	250 mg	NEAT	25000 ppm
12762	p-Diethylbenzene	50 mg	NEAT	5000 ppm
14548	p-Ethyltoluene	50 mg	NEAT	5000 ppm
14375	Methyl Alcohol		neat neat	

Veritech Lot Number: V-382492

Prepared By: Revolus, Jean
Description: Ethyl ether/Furan Mix
Prep Date: 10/24/2022
Expiration Date: 10/24/2023
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: jean
ApproveDate: 10/24/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11587	Furan	50 mg	NEAT neat	5000 ppm
13987	Ethyl Ether	50 mg	NEAT	5000 ppm
14880	Methanol	10 ml	neat neat	

Veritech Lot Number: V-382493

Prepared By: Revolus, Jean
Description: Ethyl ether/Furan Mix(2nd Sources)
Prep Date: 10/24/2022
Expiration Date: 10/24/2023
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: jean
ApproveDate: 10/24/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11587	Furan	50 mg	NEAT neat	5000 ppm
13987	Ethyl Ether	50 mg	NEAT	5000 ppm
14880	Methanol	10 ml	neat neat	

Veritech Lot Number: V-389443

Prepared By: Previlon, Wilner
Description: VOA WORKING INT/SURR MIX
Prep Date: 2/13/2023
Expiration Date: 2/12/2024
Department: Organics
BatchNumber:
Concentration: 150 ppm
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 02/15/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14606	Methanol	88 ml	neat neat	
14301	8260A Surrogate Mix	6 ml	2500 ppm	150 ppm
13052	Internal Standard Mix	6 ml	2500 ppm	150 ppm

Veritech Lot Number: V-389444

Prepared By: Previlon, Wilner
Description: BFB Tune Mix
Prep Date: 2/13/2023
Expiration Date: 8/13/2023
Department: Organics
BatchNumber:
Concentration: 50 ppm
Final Volume: 1.5 ml
ApprovedBy: akmal
ApproveDate: 02/15/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-389443	VOA WORKING INT/SURR MIX	500 ul	150 ppm	50 ppm
14606	Methanol	1000 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-394817

Prepared By: Previlon, Wilner
Department: Organics
ApprovedBy: akmal
Description: 200ppm VOA Working Std
BatchNumber:
ApproveDate: 05/08/23
Prep Date: 4/25/2023
Concentration: VARIOUS pp
Checked: Yes
Expiration Date: 9/21/2023
Final Volume: 1 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14880	Methanol	220 ul	neat neat	neat
14568	502.2 CALIBRATION MIX # 1	100 ul	2000 ppm	200 ppm
15230	502.2 Cal2000 Mega Mix	100 ul	2000 ppm	200 ppm
14628	EPA 8260 CAL MIX 2	100 ul	2000 ppm	200 ppm
15170	Custom Voc Standard	100 ul	VARIOUS	various ppm
14490	tert-Amyl Methyl Ether Standard	100 ul	2000 ppm	200 ppm
V-371358	VOA ADD MIX	40 ul	5000/25000 p	various ppm
V-382492	Ethyl ether/Furan Mix	40 ul	5000 ppm	200 ppm
V-371359	Voa Extra Add Mix	100 ul	2000-20000 p	200 ppm
13998	Ethyl-tert-Butyl Ether(ETBE)	100 ul	2000 ppm	200 ppm

Veritech Lot Number: V-394818

Prepared By: Previlon, Wilner
Department: Organics
ApprovedBy: akmal
Description: MBS
BatchNumber:
ApproveDate: 05/08/23
Prep Date: 4/25/2023
Concentration: 100 ppm
Checked: Yes
Expiration Date: 9/21/2023
Final Volume: 1 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14606	Methanol	610 ul	neat neat	neat neat
14586	502.2 CALIBRATION MIX # 1(2ndLot)	50 ul	2000 ppm	100 ppm
15229	502.2 Calibration Mix #1	50 ul	2000 ppm	100 ppm
14628	EPA 8260 CAL MIX 2	50 ul	2000 ppm	100 ppm
15171	Custom VOC Standard	50 ul	VARIOUS	various ppm
14565	tert-Amyl Methyl Ether Standard	50 ul	2000 ppm	100 ppm
V-371361	VOA ADD MIX(2nd Sources)	20 ul	5000/25000 p	various ppm
V-371359	Voa Extra Add Mix	50 ul	2000-20000 p	100-1000 pp
V-382493	Ethyl ether/Furan Mix(2nd Sources)	20 ul	5000 ppm	100 ppm
14564	Ethyl-tert-Butyl Ether(ETBE)	50 ul	2000 ppm	100 ppm

Veritech Lot Number: V-394819

Prepared By: Previlon, Wilner
Department: Organics
ApprovedBy: akmal
Description: 20ppm VOA Working Std
BatchNumber:
ApproveDate: 05/08/23
Prep Date: 4/25/2023
Concentration: VARIOUS pp
Checked: Yes
Expiration Date: 9/21/2023
Final Volume: 1 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15141	Methanol	900 ul	Neat neat	neat
V-394817	200ppm VOA Working Std	100 ul	VARIOUS pp	200 ppm

Veritech Lot Number: V-394829

Prepared By: Previlon, Wilner
Department: Organics
ApprovedBy: akmal
Description: 20ppm Freon VOA Working Std
BatchNumber:
ApproveDate: 05/08/23
Prep Date: 4/25/2023
Concentration: VARIOUS pp
Checked: Yes
Expiration Date: 10/25/2023
Final Volume: 1 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14606	Methanol	900 ul	neat neat	neat
14828	Chlorodifluoromethane	100 ul	200 ppm	200 ppm

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-395186

Prepared By: Previlon, Wilner
Description: Soil8260 Stock @ 500 PPB
Prep Date: 5/10/2023
Expiration Date: 5/11/2023
Department: Organics
BatchNumber:
Concentration: VARIOUS ppb
Final Volume: 40 ml
ApprovedBy: akmal
ApproveDate: 05/17/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-394817	200ppm VOA Working Std	100 ul	VARIOUS pp	500 ppb
12833	P&T Water	40 ml	NEAT neat	neat
14443	Chlorodifluoromethane(Freon#22)	100 ul	200 ppm	500 ppb

Veritech Lot Number: V-395187

Prepared By: Previlon, Wilner
Description: Soil8260 CAL @ 250 PPB
Prep Date: 5/10/2023
Expiration Date: 5/11/2023
Department: Organics
BatchNumber: B-34785
Concentration: VARIOUS ppb
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 05/17/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12833	P&T Water	2.5 ml	NEAT neat	
V-395186	Soil8260 Stock @ 500 PPB	2.5 ml	VARIOUS pp	250 ppb

Veritech Lot Number: V-395188

Prepared By: Previlon, Wilner
Description: Soil8260 CAL @ 100 PPB
Prep Date: 5/10/2023
Expiration Date: 5/11/2023
Department: Organics
BatchNumber: B-34785
Concentration: VARIOUS ppb
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 05/17/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12833	P&T Water	4 ml	NEAT neat	
V-395186	Soil8260 Stock @ 500 PPB	1 ml	VARIOUS pp	100 ppb

Veritech Lot Number: V-395189

Prepared By: Previlon, Wilner
Description: Soil8260 CAL @ 50 PPB
Prep Date: 5/10/2023
Expiration Date: 5/11/2023
Department: Organics
BatchNumber: B-34785
Concentration: VARIOUS ppb
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 05/17/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12833	P&T Water	4.5 ml	NEAT neat	
V-395186	Soil8260 Stock @ 500 PPB	.5 ml	VARIOUS pp	50 ppb

Veritech Lot Number: V-395190

Prepared By: Previlon, Wilner
Description: Soil8260 CAL @ 20 PPB
Prep Date: 5/10/2023
Expiration Date: 5/11/2023
Department: Organics
BatchNumber: B-34785
Concentration: VARIOUS ppb
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 05/17/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12833	P&T Water	4.8 ml	NEAT neat	
V-395186	Soil8260 Stock @ 500 PPB	.2 ml	VARIOUS pp	20 ppb

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-395191

Prepared By: Previlon, Wilner
Description: Soil8260 CAL @ 2 PPB
Prep Date: 5/10/2023
Expiration Date: 5/11/2023
Department: Organics
BatchNumber: B-34785
Concentration: VARIOUS ppb
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 05/17/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12833	P&T Water	4.98 ml	NEAT neat	
V-395186	Soil8260 Stock @ 500 PPB	20 ul	VARIOUS pp	2 ppb

Veritech Lot Number: V-395192

Prepared By: Previlon, Wilner
Description: Soil8260 CAL @ 5 PPB
Prep Date: 5/10/2023
Expiration Date: 5/11/2023
Department: Organics
BatchNumber: B-34785
Concentration: VARIOUS ppb
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 05/17/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12833	P&T Water	4.95 ml	NEAT neat	
V-395186	Soil8260 Stock @ 500 PPB	.05 ml	VARIOUS pp	5 ppb

Veritech Lot Number: V-395193

Prepared By: Previlon, Wilner
Description: Soil8260 CAL @ 1 PPB
Prep Date: 5/10/2023
Expiration Date: 5/11/2023
Department: Organics
BatchNumber: B-34785
Concentration: VARIOUS ppb
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 05/17/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12833	P&T Water	4.99 ml	NEAT neat	
V-395186	Soil8260 Stock @ 500 PPB	.01 ml	VARIOUS pp	1 ppb

Veritech Lot Number: V-395194

Prepared By: Previlon, Wilner
Description: Soil8260 CAL @ 500 PPB
Prep Date: 5/10/2023
Expiration Date: 5/11/2023
Department: Organics
BatchNumber: B-34785
Concentration: VARIOUS ppb
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 05/17/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-395186	Soil8260 Stock @ 500 PPB	5 ml	VARIOUS pp	500 ppb

Veritech Lot Number: V-395195

Prepared By: Previlon, Wilner
Description: Soil8260 CAL @ 0.5 PPB
Prep Date: 5/10/2023
Expiration Date: 5/11/2023
Department: Organics
BatchNumber: B-34785
Concentration: VARIOUS ppb
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 05/17/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12833	P&T Water	4.995 ml	NEAT neat	
V-395186	Soil8260 Stock @ 500 PPB	.005 ml	VARIOUS pp	0.5 ppb

Veritech Lot Number: V-395196

Prepared By: Previlon, Wilner
Description: ICV CAL @ 50 PPB
Prep Date: 5/10/2023
Expiration Date: 5/11/2023
Department: Organics
BatchNumber:
Concentration: VARIOUS ppb
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 05/17/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12833	P&T Water	5 ml	NEAT neat	
V-394818	MBS	2.5 ul	100 ppm	50 ppb
14443	Chlorodifluoromethane(Freon#22)	1.25 ul	200 ppm	50 ppb

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-396205

Prepared By: Previlon, Wilner
Description: 200ppm VOA Working Std
Prep Date: 5/25/2023
Expiration Date: 9/21/2023
Department: Organics
BatchNumber:
Concentration: VARIOUS pp
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 06/01/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14880	Methanol	220 ul	neat neat	neat
15229	502.2 Calibration Mix #1	100 ul	2000 ppm	200 ppm
15246	502.2 Cal 2000 Mega Mix	100 ul	2000 ppm	200 ppm
15259	8260 Additions Mix	100 ul	2000 ppm	200 ppm
15170	Custom Voc Standard	100 ul	VARIOUS	various ppm
15252	tert-Amyl Methyl Ether Standard	100 ul	2000 ppm	200 ppm
V-371358	VOA ADD MIX	40 ul	5000/25000 p	various ppm
V-371359	Voa Extra Add Mix	100 ul	2000-20000 p	200 ppm
V-382492	Ethyl ether/Furan Mix	40 ul	5000 ppm	200 ppm
14564	Ethyl-tert-Butyl Ether(ETBE)	100 ul	2000 ppm	200 ppm

Veritech Lot Number: V-396206

Prepared By: Previlon, Wilner
Description: MBS
Prep Date: 5/25/2023
Expiration Date: 9/21/2023
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 06/01/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14606	Methanol	610 ul	neat neat	neat neat
14586	502.2 CALIBRATION MIX # 1(2ndLot)	50 ul	2000 ppm	100 ppm
15230	502.2 Cal2000 Mega Mix	50 ul	2000 ppm	100 ppm
14628	EPA 8260 CAL MIX 2	50 ul	2000 ppm	100 ppm
15171	Custom VOC Standard	50 ul	VARIOUS	various ppm
14565	tert-Amyl Methyl Ether Standard	50 ul	2000 ppm	100 ppm
V-371361	VOA ADD MIX(2nd Sources)	20 ul	5000/25000 p	various ppm
V-371360	Voa Extra Add Mix(2nd Source)	50 ul	2000-20000 p	100-1000 pp
V-382493	Ethyl ether/Furan Mix(2nd Sources)	20 ul	5000 ppm	100 ppm
14564	Ethyl-tert-Butyl Ether(ETBE)	50 ul	2000 ppm	100 ppm

Veritech Lot Number: V-396297

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 250 PPB
Prep Date: 5/26/2023
Expiration Date: 6/2/2023
Department: Organics
BatchNumber: B-34876
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 06/01/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-396205	200ppm VOA Working Std	125 ul	VARIOUS pp	250 ppb
12833	P&T Water	100 ml	NEAT neat	
14828	Chlorodifluoromethane	125 ul	200 ppm	250 ppb

Veritech Lot Number: V-396298

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 100 PPB
Prep Date: 5/26/2023
Expiration Date: 6/2/2023
Department: Organics
BatchNumber: B-34876
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 06/01/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-396205	200ppm VOA Working Std	50 ul	VARIOUS pp	100 ppb
12833	P&T Water	100 ml	NEAT neat	
14828	Chlorodifluoromethane	50 ul	200 ppm	100 ppb

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-396299

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 50 PPB
Prep Date: 5/26/2023
Expiration Date: 6/2/2023
Department: Organics
BatchNumber: B-34876
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 06/01/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-396205	200ppm VOA Working Std	25 ul	VARIOUS pp	50 ppb
12833	P&T Water	100 ml	NEAT neat	
14828	Chlorodifluoromethane	25 ul	200 ppm	50 ppb

Veritech Lot Number: V-396300

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 20 PPB
Prep Date: 5/26/2023
Expiration Date: 6/2/2023
Department: Organics
BatchNumber: B-34876
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 06/01/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-396205	200ppm VOA Working Std	10 ul	VARIOUS pp	20 ppb
12833	P&T Water	100 ml	NEAT neat	
14828	Chlorodifluoromethane	10 ul	200 ppm	20 ppb

Veritech Lot Number: V-396301

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 10 PPB
Prep Date: 5/26/2023
Expiration Date: 6/2/2023
Department: Organics
BatchNumber: B-34876
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 06/01/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-394819	20ppm VOA Working Std	50 ul	VARIOUS pp	10 ppb
12833	P&T Water	100 ml	NEAT neat	
V-394829	20ppm Freon VOA Working Std	50 ul	VARIOUS pp	10 ppb

Veritech Lot Number: V-396302

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 5 PPB
Prep Date: 5/26/2023
Expiration Date: 6/2/2023
Department: Organics
BatchNumber: B-34876
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 06/01/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-394819	20ppm VOA Working Std	25 ul	VARIOUS pp	5 ppb
12833	P&T Water	100 ml	NEAT neat	
V-394829	20ppm Freon VOA Working Std	25 ul	VARIOUS pp	5 ppb

Veritech Lot Number: V-396303

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 1 PPB
Prep Date: 5/26/2023
Expiration Date: 6/2/2023
Department: Organics
BatchNumber: B-34876
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 06/01/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-394819	20ppm VOA Working Std	5 ul	VARIOUS pp	1 ppb
12833	P&T Water	100 ml	NEAT neat	
V-394829	20ppm Freon VOA Working Std	5 ul	VARIOUS pp	1 ppb

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-396304

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 0.5 PPB
Prep Date: 5/26/2023
Expiration Date: 6/2/2023
Department: Organics
BatchNumber: B-34876
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 06/01/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-394819	20ppm VOA Working Std	2.5 ul	VARIOUS pp	0.5 ppb
12833	P&T Water	100 ml	NEAT neat	
V-394829	20ppm Freon VOA Working Std	2.5 ul	VARIOUS pp	0.5 ppb

Veritech Lot Number: V-396305

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 500 PPB
Prep Date: 5/26/2023
Expiration Date: 6/2/2023
Department: Organics
BatchNumber: B-34876
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 06/01/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-396205	200ppm VOA Working Std	250 ul	VARIOUS pp	500 ppb
12833	P&T Water	100 ml	NEAT neat	
14828	Chlorodifluoromethane	250 ul	200 ppm	500 ppb

Veritech Lot Number: V-396306

Prepared By: Previlon, Wilner
Description: ICV CAL @ 20 PPB
Prep Date: 5/26/2023
Expiration Date: 6/2/2023
Department: Organics
BatchNumber:
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 06/01/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-396206	MBS	20 ul	100 ppm	20 ppb
12833	P&T Water	100 ml	NEAT neat	neat
14624	Chlorodifluoromethane	10 ul	200 ppm	20 ppb

Veritech Lot Number: V-397468

Prepared By: Previlon, Wilner
Description: CAL @ 20 PPB
Prep Date: 6/15/2023
Expiration Date: 6/22/2023
Department: Organics
BatchNumber:
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 06/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-396205	200ppm VOA Working Std	10 ul	VARIOUS pp	20 ppb
12833	P&T Water	100 ml	NEAT neat	
14828	Chlorodifluoromethane	10 ul	200 ppm	20 ppb

Veritech Lot Number: V-397469

Prepared By: Previlon, Wilner
Description: CAL @ 50 PPB
Prep Date: 6/15/2023
Expiration Date: 6/16/2023
Department: Organics
BatchNumber:
Concentration: VARIOUS ppb
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 06/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-396205	200ppm VOA Working Std	1.25 ul	VARIOUS pp	50 ppb
12833	P&T Water	5 ml	NEAT neat	
14828	Chlorodifluoromethane	1.25 ul	200 ppm	50 ppb

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 2889

Description: 1,2,4,5-TETRAMETHYLBENZENE

ApprovedBy: jean
ApproveDate: 12/18/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Acros Organics	409390050	A0214190	11/20/07	11/30/27	Revolus, Jean	1	1ML	NEAT	

Veritech Control/Receipt Number: 11587

Description: Furan

ApprovedBy: akmal
ApproveDate: 04/05/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	185922	SHBG4510V	04/05/18	08/31/25	Hamid, Akmal	1	5ML	NEAT	NEAT

Veritech Control/Receipt Number: 12762

Description: p-Diethylbenzene

ApprovedBy: akmal
ApproveDate: 09/19/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ChemService	N-12771-100MG	8949700	09/19/19	08/31/23	Revolus, Jean	4	100m	NEAT	

Veritech Control/Receipt Number: 12763

Description: Isopropyl acetate

ApprovedBy: akmal
ApproveDate: 10/07/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ChemService	N-12223-1G	8816500	09/19/19	04/30/24	Revolus, Jean	1	1g	NEAT	

Veritech Control/Receipt Number: 12833

Description: P&T Water

ApprovedBy: akmal
ApproveDate: 10/16/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Veritech	N/A	N/A	10/14/19	10/14/25	Goring, Shawn	1	N/A	NEAT	NEAT

Veritech Control/Receipt Number: 13052

Description: Internal Standard Mix

ApprovedBy: jean
ApproveDate: 02/13/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Restek	30241	A0156714	02/11/20	01/31/25	Revolus, Jean	12	1ml	2500	PPM

Veritech Control/Receipt Number: 13191

Description: d-Camphor

ApprovedBy: jean
ApproveDate: 04/17/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-11556-100MG	9259300	04/17/20	12/31/25	Revolus, Jean	5	100m	Neat	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 13192

Description: n-Amyl acetate

ApprovedBy: jean
ApproveDate: 04/17/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-12508-1G	9676300	04/17/20	03/31/26	Revolus, Jean	1	1g	NEAT	

Veritech Control/Receipt Number: 13194

Description: n-Butyl acrylate

ApprovedBy: jean
ApproveDate: 04/17/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-12513-1G	9919500	04/17/20	01/31/26	Revolus, Jean	1	1g	Neat	

Veritech Control/Receipt Number: 13195

Description: Methyl methacrylate

ApprovedBy: jean
ApproveDate: 04/17/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-12443-1G	9827400	04/17/20	03/30/26	Revolus, Jean	1	1g	Neat	

Veritech Control/Receipt Number: 13987

Description: Ethyl Ether

ApprovedBy: akmal
ApproveDate: 06/09/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-11897-1G	11096100	05/25/21	12/31/25	Revolus, Jean	1	1g	NEAT	

Veritech Control/Receipt Number: 13998

Description: Ethyl-tert-Butyl Ether(ETBE)

ApprovedBy: akmal
ApproveDate: 06/16/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Restek	30628	A0172879	06/16/21	05/31/26	Hamid, Akmal	6	1ML	2000	PPM

Veritech Control/Receipt Number: 14301

Description: 8260A Surrogate Mix

ApprovedBy: jean
ApproveDate: 11/10/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Restek	30240	A0175588	11/10/21	08/31/26	Revolus, Jean	20	1ml	2500	PPM

Veritech Control/Receipt Number: 14375

Description: Methyl Alcohol

ApprovedBy: akmal
ApproveDate: 12/28/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Tedia	MP1924-002	21080065	12/27/21	04/01/23	Burwell, John	42	1L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14443

Description: Chlorodifluoromethane(Freon#22)

ApprovedBy: jean
ApproveDate: 02/09/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
AccuStandard	M-REF-03	221081279	02/09/22	08/31/31	Revolus, Jean	10	1ml	200	PPM

Veritech Control/Receipt Number: 14490

Description: tert-Amyl Methyl Ether Standard

ApprovedBy: akmal
ApproveDate: 03/23/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Restek	30629	A0182802	03/18/22	03/31/27	Hamid, Akmal	10	1ML	2000	PPM

Veritech Control/Receipt Number: 14548

Description: p-Ethyltoluene

ApprovedBy: jean
ApproveDate: 05/01/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CHEMSERVICE	N-12776-1G	12503700	04/12/22	12/31/25	Revolus, Jean	1	1g	NEAT	

Veritech Control/Receipt Number: 14549

Description: Ethyl acetate

ApprovedBy: jean
ApproveDate: 05/01/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CHEMSERVICE	N-11881-1G	12841300	04/12/22	11/30/24	Revolus, Jean	1	1g	NEAT	

Veritech Control/Receipt Number: 14550

Description: Butyl methacrylate

ApprovedBy: jean
ApproveDate: 05/01/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CHEMSERVICE	N-11371-1G	12981700	04/12/22	02/28/29	Revolus, Jean	1	1g	NEAT	

Veritech Control/Receipt Number: 14552

Description: Camphene

ApprovedBy: jean
ApproveDate: 05/01/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CHEMSERVICE	N-11395-250MG	13119400	04/12/22	04/30/27	Revolus, Jean	1	0.25g	NEAT	

Veritech Control/Receipt Number: 14553

Description: Ethyl methacrylate

ApprovedBy: jean
ApproveDate: 05/01/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CHEMSERVICE	N-11903-1G	12985900	04/12/22	02/28/26	Revolus, Jean	1	1g	NEAT	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14554

Description: Cyclohexanone

ApprovedBy: jean
ApproveDate: 05/01/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CHEMSERVICE	N-11531-1G	13043700	04/19/22	05/31/23	Revolus, Jean	1	1g	NEAT	

Veritech Control/Receipt Number: 14564

Description: Ethyl-tert-Butyl Ether(ETBE)

ApprovedBy: akmal
ApproveDate: 05/06/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
RESTEK	30628	A0179423	05/02/22	12/31/26	Hamid, Akmal	6	1ML	2000	PPM

Veritech Control/Receipt Number: 14565

Description: tert-Amyl Methyl Ether Standard

ApprovedBy: akmal
ApproveDate: 05/06/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
RESTEK	30629	A0182802	05/02/22	03/31/27	Hamid, Akmal	6	1ML	2000	PPM

Veritech Control/Receipt Number: 14568

Description: 502.2 CALIBRATION MIX # 1

ApprovedBy: akmal
ApproveDate: 05/06/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
RESTEK	30042	A0180020	05/02/22	12/31/28	Hamid, Akmal	5	1 ML	2000	PPM

Veritech Control/Receipt Number: 14586

Description: 502.2 CALIBRATION MIX # 1(2ndLot)

ApprovedBy: akmal
ApproveDate: 05/11/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Restek	30042	A0184452	05/11/22	12/31/28	Hamid, Akmal	5	1ML	2000	PPM

Veritech Control/Receipt Number: 14606

Description: Methanol

ApprovedBy: jean
ApproveDate: 06/07/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
EMD	MX0482-6	60049	05/26/22	05/25/26	Lopez, Jose	49	1L	neat	neat

Veritech Control/Receipt Number: 14624

Description: Chlorodifluoromethane

ApprovedBy: jean
ApproveDate: 06/07/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ACCUSTANDAR	M-REF-03	219081587	06/03/22	08/19/31	Revolus, Jean	10	1mL	200	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14628

Description: EPA 8260 CAL MIX 2

ApprovedBy: jean
ApproveDate: 06/08/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SUPELCO	46831-U	LRAD2512	06/07/22	05/31/25	Revolus, Jean	5	1mL	2000	PPM

Veritech Control/Receipt Number: 14828

Description: Chlorodifluoromethane

ApprovedBy: akmal
ApproveDate: 09/19/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ACCUSTANDAR	M-REF-03	221081279	09/16/22	08/19/31	Revolus, Jean	10	1ml	200	PPM

Veritech Control/Receipt Number: 14880

Description: Methanol

ApprovedBy: jean
ApproveDate: 10/13/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco/EMD	MX0482-6	62126	10/12/22	10/11/27	Lopez, Jose	36	1L	neat	neat

Veritech Control/Receipt Number: 15141

Description: Methanol

ApprovedBy: akmal
ApproveDate: 03/03/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco/EMD	MX0482	22080306	03/02/23	03/01/28	Lopez, Jose	6	1L	Neat	Neat

Veritech Control/Receipt Number: 15170

Description: Custom Voc Standard

ApprovedBy: jean
ApproveDate: 03/24/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ACCUSTANDAR	S-16418	223031318	03/24/23	09/21/23	Revolus, Jean	5	1ml	VARIOU	

Veritech Control/Receipt Number: 15171

Description: Custom VOC Standard

ApprovedBy: jean
ApproveDate: 03/24/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ACCUSTANDAR	S-16418	223031314	03/24/23	09/21/23	Revolus, Jean	5	1ml	VARIOU	

Veritech Control/Receipt Number: 15229

Description: 502.2 Calibration Mix #1

ApprovedBy: jean
ApproveDate: 04/24/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
RESTEK	30042	A0192488	04/07/23	08/31/29	Revolus, Jean	10	1ml	2000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15230

Description: 502.2 Cal2000 Mega Mix

ApprovedBy: jean
ApproveDate: 04/24/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
RESTEK	30431	A0188935	04/07/23	08/31/24	Revolus, Jean	10	1ml	2000	PPM

Veritech Control/Receipt Number: 15246

Description: 502.2 Cal 2000 Mega Mix

ApprovedBy: akmal
ApproveDate: 04/28/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Restek	30431	A0196706	04/28/23	04/30/25	Hamid, Akmal	5	1ML	2000	PPM

Veritech Control/Receipt Number: 15252

Description: tert-Amyl Methyl Ether Standard

ApprovedBy: akmal
ApproveDate: 05/03/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
RESTEK	30629	A0197211	04/27/23	04/30/23	Revolus, Jean	6	1ml	2000	PPM

Veritech Control/Receipt Number: 15259

Description: 8260 Additions Mix

ApprovedBy: jean
ApproveDate: 05/05/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ACCUSTANDAR	M-8260-ADD-10X	223041101	05/05/23	08/07/23	Revolus, Jean	2	1ml	2000	PPM

GC/MS Base Neutral/Acid Extractable Data

GC/MS Base Neutral/Acid Extractable Data
QC Summary

FORM2

Surrogate Recovery

Method: EPA 8270E

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column1 S5 Recov	Column1 S6 Recov
10M97623.D	WMB108840	A	06/20/23 09:50	1		NA	NA	83	79	NA	99
5M124278.D	SMB108929	S	06/23/23 14:31	1		NA	NA	76	83	NA	93
9M122466.D	AD38586-003	S	06/23/23 17:23	1		NA	NA	77	80	NA	88
7M129503.D	AD38586-004	S	06/24/23 03:12	1		NA	NA	81	92	NA	90
10M97641.D	AD38586-005	A	06/20/23 16:42	1		NA	NA	69	64	NA	91
10M97642.D	AD38586-006	A	06/20/23 17:05	1		NA	NA	67	67	NA	89
10M97622.D	WMB108840(MS)	A	06/20/23 09:27	1		NA	NA	79	73	NA	96
10M97643.D	AD38527-001	A	06/20/23 17:27	1		NA	NA	69	67	NA	86
10M97644.D	AD38527-001(MS)	A	06/20/23 17:49	1		NA	NA	79	73	NA	97
10M97645.D	AD38527-001(MSD)	A	06/20/23 18:12	1		NA	NA	80	69	NA	94
5M124277.D	SMB108929(MS)	S	06/23/23 14:08	1		NA	NA	88	89	NA	100
7M129489.D	AD38586-008(MSD:AD3	S	06/23/23 21:45	1		NA	NA	83	84	NA	87
7M129515.D	AD38586-001	S	06/26/23 09:34	1		NA	NA	85	87	NA	85
7M129516.D	AD38586-007(MS:AD38	S	06/26/23 09:57	1		NA	NA	78	84	NA	85

Flags: SD=Surrogate diluted out

*=Surrogate out

Method: EPA 8270E

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	25-140
S2=Phenol-d5	100	27-146
S3=Nitrobenzene-d5	50	16-159
S4=2-Fluorobiphenyl	50	29-145
S5=2,4,6-Tribromophenol	100	12-174
S6=Terphenyl-d14	50	33-166

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	10-131
S2=Phenol-d5	100	10-133
S3=Nitrobenzene-d5	50	19-163
S4=2-Fluorobiphenyl	50	23-154
S5=2,4,6-Tribromophenol	100	20-180
S6=Terphenyl-d14	50	30-184

FORM2

Surrogate Recovery

Method: EPA 8270E

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column1 S5 Recov	Column1 S6 Recov
5M124278.D	SMB108929	S	06/23/23 14:31	1		43	45	76	83	77	93
7M129515.D	AD38586-001	S	06/26/23 09:34	1		80	86	85	87	75	85
7M129502.D	AD38586-002	S	06/24/23 02:49	1		74	81	79	88	78	84
7M129516.D	AD38586-007(MS:AD38	S	06/26/23 09:57	1		75	79	78	84	74	85
7M129489.D	AD38586-008(MSD:AD3	S	06/23/23 21:45	1		73	75	83	84	84	87
5M124277.D	SMB108929(MS)	S	06/23/23 14:08	1		43	44	88	89	101	100

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8270E

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	25-140
S2=Phenol-d5	100	27-146
S3=Nitrobenzene-d5	50	16-159
S4=2-Fluorobiphenyl	50	29-145
S5=2,4,6-Tribromophenol	100	12-174
S6=Terphenyl-d14	50	33-166

Form3
Recovery Data Laboratory Limits
QC Batch: WMB108840

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M97622.D	WMB108840(MS)	6/20/2023 9:27:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8270E Matrix: Aqueous Units: ug/L QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	21.0773	0	100	21	16	112
Pyridine	1	53.2391	0	100	53	10	131
N-Nitrosodimethylamine	1	27.1419	0	100	27	24	118
Benzaldehyde	1	51.176	0	100	51	10	103
Aniline	1	77.5464	0	100	78	10	149
Pentachloroethane	1	11.2028	0	100	11	10	155
bis(2-Chloroethyl)ether	1	69.8946	0	100	70	42	118
N-Decane	1	60.7885	0	100	61	25	129
1,3-Dichlorobenzene	1	65.9301	0	100	66	13	126
1,4-Dichlorobenzene	1	65.9121	0	100	66	13	133
1,2-Dichlorobenzene	1	67.11	0	100	67	16	129
Benzyl alcohol	1	46.372	0	100	46	33	150
bis(2-chloroisopropyl)ether	1	58.6774	0	100	59	28	119
Acetophenone	1	77.2739	0	100	77	47	132
Hexachloroethane	1	64.9747	0	100	65	19	132
N-Nitroso-di-n-propylamine	1	76.3652	0	100	76	46	127
Nitrobenzene	1	73.9042	0	100	74	45	134
Isophorone	1	67.4779	0	100	67	48	121
bis(2-Chloroethoxy)methane	1	75.1239	0	100	75	47	131
1,2,4-Trichlorobenzene	1	73.9241	0	100	74	32	135
Naphthalene	**1**	**74.2119**	**0**	**100**	**74**	**12**	**146**
4-Chloroaniline	1	95.1399	0	100	95	10	161
Hexachlorobutadiene	1	71.9279	0	100	72	24	136
Caprolactam	1	13.0288	0	100	13	10	155
2-Methylnaphthalene	**1**	**85.7569**	**0**	**100**	**86**	**34**	**156**
1-Methylnaphthalene	1	90.6312	0	100	91	44	149
1,1'-Biphenyl	1	84.9148	0	100	85	51	137
1,2,4,5-Tetrachlorobenzene	1	78.5471	0	100	79	52	131
Hexachlorocyclopentadiene	1	84.1276	0	100	84	24	137
2-Chloronaphthalene	1	79.1088	0	100	79	51	129
1,4-Dimethylnaphthalene	1	81.8541	0	100	82	50	137
Diphenyl Ether	1	81.9677	0	100	82	55	134
2-Nitroaniline	1	91.0181	0	100	91	45	165
Coumarin	1	0	0	100	0*	10	194
Acenaphthylene	**1**	**88.802**	**0**	**100**	**89**	**46**	**130**
Dimethylphthalate	1	60.8417	0	100	61	10	177
2,6-Dinitrotoluene	1	87.7972	0	100	88	55	135
Acenaphthene	**1**	**81.8616**	**0**	**100**	**82**	**48**	**136**
3-Nitroaniline	1	95.4096	0	100	95	24	169
Dibenzofuran	1	89.5342	0	100	90	50	147
2,4-Dinitrotoluene	1	88.5292	0	100	89	55	136
Fluorene	**1**	**84.8162**	**0**	**100**	**85**	**53**	**132**
4-Chlorophenyl-phenylether	1	85.8841	0	100	86	58	133
Diethylphthalate	1	81.5723	0	100	82	25	152
4-Nitroaniline	1	92.8502	0	100	93	33	166
Atrazine	1	76.2507	0	100	76	21	152
n-Nitrosodiphenylamine	1	66.7089	0	100	67	44	122
1,2-Diphenylhydrazine	1	84.3389	0	100	84	53	140
4-Bromophenyl-phenylether	1	87.814	0	100	88	60	139
Hexachlorobenzene	1	84.1597	0	100	84	58	132
N-Octadecane	1	110.534	0	100	111	53	157
Phenanthrene	**1**	**86.1073**	**0**	**100**	**86**	**56**	**136**
Anthracene	**1**	**86.6857**	**0**	**100**	**87**	**59**	**131**
Carbazole	1	96.027	0	100	96	53	159
Di-n-butylphthalate	1	98.0156	0	100	98	60	140
Fluoranthene	**1**	**90.7409**	**0**	**100**	**91**	**61**	**139**
Pyrene	**1**	**88.7299**	**0**	**100**	**89**	**58**	**133**
Benzidine	1	31.3325	0	100	31	10	43
Butylbenzylphthalate	1	95.9793	0	100	96	61	145
3,3'-Dichlorobenzidine	1	102.0635	0	100	102	10	145
Benzo[a]anthracene	**1**	**86.811**	**0**	**100**	**87**	**56**	**122**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB108840

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chrysene	1	86.4973	0	100	86	58	136
bis(2-Ethylhexyl)phthalate	1	93.2753	0	100	93	59	145
Di-n-octylphthalate	1	95.6784	0	100	96	57	147
Benzo[b]fluoranthene	1	101.9886	0	100	102	58	146
Benzo[k]fluoranthene	1	94.8982	0	100	95	57	140
Benzo[a]pyrene	1	97.6849	0	100	98	55	135
Indeno[1,2,3-cd]pyrene	1	91.5764	0	100	92	59	147
Dibenzo[a,h]anthracene	1	93.0314	0	100	93	58	142
Benzo[g,h,i]perylene	1	88.1918	0	100	88	57	138

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB108929

Data File	Sample ID:	Analysis Date
Spike or Dup: 5M124277.D	SMB108929(MS)	6/23/2023 2:08:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	**1**	**9.8936**	**0**	**50**	**20**	**10**	**60**
Pyridine	1	19.7856	0	50	40	13	107
N-Nitrosodimethylamine	1	20.4608	0	50	41	30	100
Benzaldehyde	**1**	**12.629**	**0**	**50**	**25**	**10**	**121**
Aniline	1	17.6211	0	50	35	10	96
Pentachloroethane	1	19.108	0	50	38	19	125
bis(2-Chloroethyl)ether	**1**	**17.9118**	**0**	**50**	**36**	**28**	**120**
Phenol	**1**	**40.3909**	**0**	**100**	**40**	**32**	**119**
2-Chlorophenol	**1**	**42.6159**	**0**	**100**	**43**	**33**	**124**
N-Decane	1	15.5076	0	50	31	10	142
1,3-Dichlorobenzene	1	17.6121	0	50	35	32	105
1,4-Dichlorobenzene	1	37.2664	0	50	75	37	100
1,2-Dichlorobenzene	1	37.1667	0	50	74	29	108
Benzyl alcohol	1	41.6438	0	50	83	37	119
bis(2-chloroisopropyl)ether	**1**	**33.6226**	**0**	**50**	**67**	**20**	**110**
2-Methylphenol	**1**	**89.3574**	**0**	**100**	**89**	**38**	**114**
Acetophenone	**1**	**45.5538**	**0**	**50**	**91**	**11**	**152**
Hexachloroethane	**1**	**36.9027**	**0**	**50**	**74**	**10**	**130**
N-Nitroso-di-n-propylamine	**1**	**39.506**	**0**	**50**	**79**	**10**	**151**
3&4-Methylphenol	**1**	**88.4998**	**0**	**100**	**88**	**36**	**127**
Nitrobenzene	**1**	**38.9962**	**0**	**50**	**78**	**20**	**142**
Isophorone	**1**	**34.1711**	**0**	**50**	**68**	**10**	**164**
2-Nitrophenol	**1**	**88.278**	**0**	**100**	**88**	**16**	**146**
2,4-Dimethylphenol	**1**	**87.0928**	**0**	**100**	**87**	**15**	**150**
Benzoic Acid	1	94.7494	0	100	95	10	182
bis(2-Chloroethoxy)methane	**1**	**37.8864**	**0**	**50**	**76**	**26**	**131**
2,4-Dichlorophenol	**1**	**88.969**	**0**	**100**	**89**	**20**	**146**
1,2,4-Trichlorobenzene	1	38.2996	0	50	77	33	121
Naphthalene	**1**	**37.0597**	**0**	**50**	**74**	**10**	**153**
4-Chloroaniline	**1**	**40.4624**	**0**	**50**	**81**	**10**	**112**
Hexachlorobutadiene	**1**	**37.2246**	**0**	**50**	**74**	**32**	**113**
Caprolactam	**1**	**48.7146**	**0**	**50**	**97**	**10**	**174**
4-Chloro-3-methylphenol	**1**	**93.4129**	**0**	**100**	**93**	**32**	**138**
2-Methylnaphthalene	**1**	**42.7306**	**0**	**50**	**85**	**11**	**153**
1-Methylnaphthalene	1	44.9282	0	50	90	10	180
1,1'-Biphenyl	**1**	**41.5287**	**0**	**50**	**83**	**18**	**148**
1,2,4,5-Tetrachlorobenzene	**1**	**42.0004**	**0**	**50**	**84**	**31**	**124**
Hexachlorocyclopentadiene	**1**	**49.1265**	**0**	**50**	**98**	**10**	**103**
2,4,6-Trichlorophenol	**1**	**95.4757**	**0**	**100**	**95**	**32**	**137**
2,4,5-Trichlorophenol	**1**	**92.6975**	**0**	**100**	**93**	**36**	**131**
2-Chloronaphthalene	**1**	**39.0212**	**0**	**50**	**78**	**41**	**115**
1,4-Dimethylnaphthalene	1	39.4913	0	50	79	10	205
Diphenyl Ether	1	43.3234	0	50	87	31	127
2-Nitroaniline	**1**	**45.7348**	**0**	**50**	**91**	**32**	**142**
Coumarin	1	41.7636	0	50	84	14	160
Acenaphthylene	**1**	**45.5029**	**0**	**50**	**91**	**26**	**133**
Dimethylphthalate	**1**	**41.7885**	**0**	**50**	**84**	**40**	**120**
2,6-Dinitrotoluene	**1**	**41.36**	**0**	**50**	**83**	**18**	**148**
Acenaphthene	**1**	**40.2763**	**0**	**50**	**81**	**11**	**158**
3-Nitroaniline	**1**	**40.7639**	**0**	**50**	**82**	**14**	**137**
2,4-Dinitrophenol	**1**	**81.7532**	**0**	**100**	**82**	**10**	**128**
Dibenzofuran	**1**	**42.3101**	**0**	**50**	**85**	**10**	**170**
2,4-Dinitrotoluene	**1**	**44.7002**	**0**	**50**	**89**	**10**	**173**
4-Nitrophenol	**1**	**101.5372**	**0**	**100**	**102**	**23**	**140**
2,3,4,6-Tetrachlorophenol	**1**	**91.7794**	**0**	**100**	**92**	**26**	**127**
Fluorene	**1**	**42.4114**	**0**	**50**	**85**	**14**	**152**
4-Chlorophenyl-phenylether	**1**	**40.6758**	**0**	**50**	**81**	**40**	**121**
Diethylphthalate	**1**	**42.7506**	**0**	**50**	**86**	**40**	**119**
4-Nitroaniline	**1**	**46.8939**	**0**	**50**	**94**	**31**	**125**
Atrazine	**1**	**48.6789**	**0**	**50**	**97**	**12**	**164**
4,6-Dinitro-2-methylphenol	**1**	**92.7605**	**0**	**100**	**93**	**10**	**146**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB108929

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	**1**	**35.0578**	**0**	**50**	**70**	**10**	**172**
1,2-Diphenylhydrazine	1	40.104	0	50	80	24	144
4-Bromophenyl-phenylether	**1**	**40.8525**	**0**	**50**	**82**	**26**	**148**
Hexachlorobenzene	**1**	**41.0348**	**0**	**50**	**82**	**36**	**124**
N-Octadecane	1	57.2761	0	50	115	10	186
Pentachlorophenol	**1**	**90.7506**	**0**	**100**	**91**	**21**	**148**
Phenanthrene	**1**	**41.9422**	**0**	**50**	**84**	**10**	**175**
Anthracene	**1**	**42.8367**	**0**	**50**	**86**	**21**	**148**
Carbazole	**1**	**45.1837**	**0**	**50**	**90**	**36**	**137**
Di-n-butylphthalate	**1**	**49.2457**	**0**	**50**	**98**	**41**	**134**
Fluoranthene	**1**	**44.2012**	**0**	**50**	**88**	**10**	**186**
Pyrene	**1**	**45.3865**	**0**	**50**	**91**	**10**	**196**
Benzidine	1	11.7021	0	50	23	10	77
Butylbenzylphthalate	**1**	**48.1053**	**0**	**50**	**96**	**40**	**139**
3,3'-Dichlorobenzidine	**1**	**36.3725**	**0**	**50**	**73**	**10**	**110**
Benzo[a]anthracene	**1**	**43.7902**	**0**	**50**	**88**	**13**	**142**
Chrysene	**1**	**43.1786**	**0**	**50**	**86**	**11**	**161**
bis(2-Ethylhexyl)phthalate	**1**	**47.1634**	**0**	**50**	**94**	**34**	**156**
Di-n-octylphthalate	**1**	**47.7232**	**0**	**50**	**95**	**28**	**158**
Benzo[b]fluoranthene	**1**	**46.6356**	**0**	**50**	**93**	**20**	**156**
Benzo[k]fluoranthene	**1**	**45.5844**	**0**	**50**	**91**	**15**	**156**
Benzo[a]pyrene	**1**	**49.372**	**0**	**50**	**99**	**14**	**144**
Indeno[1,2,3-cd]pyrene	**1**	**44.388**	**0**	**50**	**89**	**24**	**142**
Dibenzo[a,h]anthracene	**1**	**43.6824**	**0**	**50**	**87**	**29**	**132**
Benzo[g,h,i]perylene	**1**	**43.8039**	**0**	**50**	**88**	**12**	**142**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB108840

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M97644.D	AD38527-001(MS)	6/20/2023 5:49:00 PM
Non Spike(If applicable):	10M97643.D	AD38527-001	6/20/2023 5:27:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	37.416	1.6408	100	36	16	112
Pyridine	1	69.6636	0	100	70	10	131
N-Nitrosodimethylamine	1	46.3522	0	100	46	24	118
Benzaldehyde	1	44.2389	0	100	44	10	103
Aniline	1	85.798	0	100	86	10	149
Pentachloroethane	1	19.1451	0	100	19	10	155
bis(2-Chloroethyl)ether	1	71.7209	0	100	72	42	118
N-Decane	1	64.5003	0	100	65	25	129
1,3-Dichlorobenzene	1	67.1341	0	100	67	13	126
1,4-Dichlorobenzene	1	67.3183	0	100	67	13	133
1,2-Dichlorobenzene	1	68.0238	0	100	68	16	129
Benzyl alcohol	1	65.0244	0	100	65	33	150
bis(2-chloroisopropyl)ether	1	59.8135	0	100	60	28	119
Acetophenone	1	78.082	0	100	78	47	132
Hexachloroethane	1	66.3724	0	100	66	19	132
N-Nitroso-di-n-propylamine	1	78.2497	0	100	78	46	127
Nitrobenzene	1	76.3209	0	100	76	45	134
Isophorone	1	69.5016	0	100	70	48	121
bis(2-Chloroethoxy)methane	1	77.3127	0	100	77	47	131
1,2,4-Trichlorobenzene	1	75.8856	0	100	76	32	135
Naphthalene	**1**	**75.8049**	**0**	**100**	**76**	**12**	**146**
4-Chloroaniline	1	98.3132	0	100	98	10	161
Hexachlorobutadiene	1	73.9157	0	100	74	24	136
Caprolactam	1	28.632	0	100	29	10	155
2-Methylnaphthalene	**1**	**86.8277**	**0**	**100**	**87**	**34**	**156**
1-Methylnaphthalene	1	91.8868	0	100	92	44	149
1,1'-Biphenyl	1	84.5702	0	100	85	51	137
1,2,4,5-Tetrachlorobenzene	1	78.0465	0	100	78	52	131
Hexachlorocyclopentadiene	1	83.7309	0	100	84	24	137
2-Chloronaphthalene	1	79.4186	0	100	79	51	129
1,4-Dimethylnaphthalene	1	80.7951	0	100	81	50	137
Diphenyl Ether	1	82.0173	0	100	82	55	134
2-Nitroaniline	1	92.0346	0	100	92	45	165
Coumarin	1	11.8744	0	100	12	10	194
Acenaphthylene	**1**	**88.6202**	**0**	**100**	**89**	**46**	**130**
Dimethylphthalate	1	27.3548	0	100	27	10	177
2,6-Dinitrotoluene	1	85.5744	0	100	86	55	135
Acenaphthene	**1**	**82.5342**	**0**	**100**	**83**	**48**	**136**
3-Nitroaniline	1	97.9815	0	100	98	24	169
Dibenzofuran	1	90.1367	0	100	90	50	147
2,4-Dinitrotoluene	1	87.4697	0	100	87	55	136
Fluorene	**1**	**84.3551**	**0**	**100**	**84**	**53**	**132**
4-Chlorophenyl-phenylether	1	85.9235	0	100	86	58	133
Diethylphthalate	1	51.2665	0	100	51	25	152
4-Nitroaniline	1	96.0554	0	100	96	33	166
Atrazine	1	75.9411	0	100	76	21	152
n-Nitrosodiphenylamine	1	66.7046	0	100	67	44	112
1,2-Diphenylhydrazine	1	84.6821	0	100	85	53	140
4-Bromophenyl-phenylether	1	86.3212	0	100	86	60	139
Hexachlorobenzene	1	83.71	0	100	84	58	132
N-Octadecane	1	107.6432	0	100	108	53	157
Phenanthrene	**1**	**85.273**	**0**	**100**	**85**	**56**	**136**
Anthracene	**1**	**86.9951**	**0**	**100**	**87**	**59**	**131**
Carbazole	1	95.3959	0	100	95	53	149
Di-n-butylphthalate	1	97.2021	0	100	97	60	140
Fluoranthene	**1**	**89.9789**	**0**	**100**	**90**	**61**	**139**
Pyrene	**1**	**89.6376**	**0**	**100**	**90**	**58**	**133**
Benzidine	1	25.5158	0	100	26	10	43
Butylbenzylphthalate	1	96.6368	0	100	97	61	145
3,3'-Dichlorobenzidine	1	99.4363	0	100	99	10	145
Benzo[a]anthracene	**1**	**88.8905**	**0**	**100**	**89**	**56**	**122**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB108840

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chrysene	**1**	**86.397**	**0**	**100**	**86**	**58**	**136**
bis(2-Ethylhexyl)phthalate	1	93.5093	0	100	94	59	145
Di-n-octylphthalate	1	96.5161	0	100	97	57	147
Benzo[b]fluoranthene	**1**	**99.5435**	**0**	**100**	**100**	**58**	**146**
Benzo[k]fluoranthene	**1**	**96.3616**	**0**	**100**	**96**	**57**	**140**
Benzo[a]pyrene	**1**	**98.9701**	**0**	**100**	**99**	**55**	**135**
Indeno[1,2,3-cd]pyrene	**1**	**91.021**	**0**	**100**	**91**	**59**	**147**
Dibenzo[a,h]anthracene	**1**	**93.2251**	**0**	**100**	**93**	**58**	**142**
Benzo[g,h,i]perylene	**1**	**86.9489**	**0**	**100**	**87**	**57**	**138**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB108840

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M97645.D	AD38527-001(MSD)	6/20/2023 6:12:00 PM
Non Spike(If applicable):	10M97643.D	AD38527-001	6/20/2023 5:27:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	38.401	1.6408	100	37	16	112
Pyridine	1	68.9828	0	100	69	10	131
N-Nitrosodimethylamine	1	45.1529	0	100	45	24	118
Benzaldehyde	1	44.3842	0	100	44	10	103
Aniline	1	83.7175	0	100	84	10	149
Pentachloroethane	1	18.0859	0	100	18	10	155
bis(2-Chloroethyl)ether	1	72.7332	0	100	73	42	118
N-Decane	1	64.9661	0	100	65	25	129
1,3-Dichlorobenzene	1	66.5696	0	100	67	13	126
1,4-Dichlorobenzene	1	66.3473	0	100	66	13	133
1,2-Dichlorobenzene	1	67.7437	0	100	68	16	129
Benzyl alcohol	1	63.9015	0	100	64	33	150
bis(2-chloroisopropyl)ether	1	60.3078	0	100	60	28	119
Acetophenone	1	78.2416	0	100	78	47	132
Hexachloroethane	1	66.7437	0	100	67	19	132
N-Nitroso-di-n-propylamine	1	78.1334	0	100	78	46	127
Nitrobenzene	1	75.5245	0	100	76	45	134
Isophorone	1	69.99	0	100	70	48	121
bis(2-Chloroethoxy)methane	1	78.2218	0	100	78	47	131
1,2,4-Trichlorobenzene	1	75.6509	0	100	76	32	135
Naphthalene	**1**	**73.0742**	**0**	**100**	**73**	**12**	**146**
4-Chloroaniline	1	96.5988	0	100	97	10	161
Hexachlorobutadiene	1	74.4869	0	100	74	24	136
Caprolactam	1	28.3891	0	100	28	10	155
2-Methylnaphthalene	**1**	**84.7328**	**0**	**100**	**85**	**34**	**156**
1-Methylnaphthalene	1	90.7407	0	100	91	44	149
1,1'-Biphenyl	1	83.8432	0	100	84	51	137
1,2,4,5-Tetrachlorobenzene	1	77.3766	0	100	77	52	131
Hexachlorocyclopentadiene	1	85.2688	0	100	85	24	137
2-Chloronaphthalene	1	79.3059	0	100	79	51	129
1,4-Dimethylnaphthalene	1	79.898	0	100	80	50	137
Diphenyl Ether	1	80.7776	0	100	81	55	134
2-Nitroaniline	1	90.2926	0	100	90	45	165
Coumarin	1	12.0475	0	100	12	10	194
Acenaphthylene	**1**	**88.2935**	**0**	**100**	**88**	**46**	**130**
Dimethylphthalate	1	33.4427	0	100	33	10	177
2,6-Dinitrotoluene	1	87.4691	0	100	87	55	135
Acenaphthene	**1**	**81.3851**	**0**	**100**	**81**	**48**	**136**
3-Nitroaniline	1	95.4833	0	100	95	24	169
Dibenzofuran	1	87.6276	0	100	88	50	147
2,4-Dinitrotoluene	1	87.793	0	100	88	55	136
Fluorene	**1**	**84.1215**	**0**	**100**	**84**	**53**	**132**
4-Chlorophenyl-phenylether	1	85.6636	0	100	86	58	133
Diethylphthalate	1	54.6001	0	100	55	25	152
4-Nitroaniline	1	95.0101	0	100	95	33	166
Atrazine	1	73.2596	0	100	73	21	152
n-Nitrosodiphenylamine	1	66.9803	0	100	67	44	112
1,2-Diphenylhydrazine	1	84.5621	0	100	85	53	140
4-Bromophenyl-phenylether	1	86.9775	0	100	87	60	139
Hexachlorobenzene	1	83.7053	0	100	84	58	132
N-Octadecane	1	106.7352	0	100	107	53	157
Phenanthrene	**1**	**84.8283**	**0**	**100**	**85**	**56**	**136**
Anthracene	**1**	**86.9712**	**0**	**100**	**87**	**59**	**131**
Carbazole	1	93.7706	0	100	94	58	136
Di-n-butylphthalate	1	98.316	0	100	98	60	140
Fluoranthene	**1**	**89.8236**	**0**	**100**	**90**	**61**	**139**
Pyrene	**1**	**89.6565**	**0**	**100**	**90**	**58**	**133**
Benzidine	1	25.2014	0	100	25	10	43
Butylbenzylphthalate	1	96.3692	0	100	96	61	145
3,3'-Dichlorobenzidine	1	101.1883	0	100	101	10	145
Benzo[a]anthracene	**1**	**88.1058**	**0**	**100**	**88**	**56**	**122**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB108840

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chrysene	**1**	**84.8286**	**0**	**100**	**85**	**58**	**136**
bis(2-Ethylhexyl)phthalate	1	93.3845	0	100	93	59	145
Di-n-octylphthalate	1	97.6807	0	100	98	57	147
Benzo[b]fluoranthene	**1**	**99.7326**	**0**	**100**	**100**	**58**	**146**
Benzo[k]fluoranthene	**1**	**96.6502**	**0**	**100**	**97**	**57**	**140**
Benzo[a]pyrene	**1**	**98.2627**	**0**	**100**	**98**	**55**	**135**
Indeno[1,2,3-cd]pyrene	**1**	**90.9266**	**0**	**100**	**91**	**59**	**147**
Dibenzo[a,h]anthracene	**1**	**92.4113**	**0**	**100**	**92**	**58**	**142**
Benzo[g,h,i]perylene	**1**	**86.6206**	**0**	**100**	**87**	**57**	**138**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: WMB108840

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M97645.D	AD38527-001(MSD)	6/20/2023 6:12:00 PM
Duplicate(If applicable):	10M97644.D	AD38527-001(MS)	6/20/2023 5:49:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
1,4-Dioxane	1	38.401	37.416	2.6	58
Pyridine	1	68.9828	69.6636	0.98	143
N-Nitrosodimethylamine	1	45.1529	46.3522	2.6	40
Benzaldehyde	1	44.3842	44.2389	0.33	92
Aniline	1	83.7175	85.798	2.5	138
Pentachloroethane	1	18.0859	19.1451	5.7	79
bis(2-Chloroethyl)ether	1	72.7332	71.7209	1.4	42
N-Decane	1	64.9661	64.5003	0.72	59
1,3-Dichlorobenzene	1	66.5696	67.1341	0.84	90
1,4-Dichlorobenzene	1	66.3473	67.3183	1.5	88
1,2-Dichlorobenzene	1	67.7437	68.0238	0.41	74
Benzyl alcohol	1	63.9015	65.0244	1.7	35
bis(2-chloroisopropyl)ether	1	60.3078	59.8135	0.82	48
Acetophenone	1	78.2416	78.082	0.2	30
Hexachloroethane	1	66.7437	66.3724	0.56	88
N-Nitroso-di-n-propylamine	1	78.1334	78.2497	0.15	56
Nitrobenzene	1	75.5245	76.3209	1	38
Isophorone	1	69.99	69.5016	0.7	35
bis(2-Chloroethoxy)methane	1	78.2218	77.3127	1.2	44
1,2,4-Trichlorobenzene	1	75.6509	75.8856	0.31	50
Naphthalene	**1**	**73.0742**	**75.8049**	**3.7**	**47**
4-Chloroaniline	1	96.5988	98.3132	1.8	85
Hexachlorobutadiene	1	74.4869	73.9157	0.77	58
Caprolactam	1	28.3891	28.632	0.85	33
2-Methylnaphthalene	**1**	**84.7328**	**86.8277**	**2.4**	**38**
1-Methylnaphthalene	1	90.7407	91.8868	1.3	32
1,1'-Biphenyl	1	83.8432	84.5702	0.86	31
1,2,4,5-Tetrachlorobenzene	1	77.3766	78.0465	0.86	32
Hexachlorocyclopentadiene	1	85.2688	83.7309	1.8	48
2-Chloronaphthalene	1	79.3059	79.4186	0.14	35
1,4-Dimethylnaphthalene	1	79.898	80.7951	1.1	31
Diphenyl Ether	1	80.7776	82.0173	1.5	32
2-Nitroaniline	1	90.2926	92.0346	1.9	37
Coumarin	1	12.0475	11.8744	1.4	97
Acenaphthylene	**1**	**88.2935**	**88.6202**	**0.37**	**41**
Dimethylphthalate	1	33.4427	27.3548	20	108
2,6-Dinitrotoluene	1	87.4691	85.5744	2.2	35
Acenaphthene	**1**	**81.3851**	**82.5342**	**1.4**	**35**
3-Nitroaniline	1	95.4833	97.9815	2.6	64
Dibenzofuran	1	87.6276	90.1367	2.8	36
2,4-Dinitrotoluene	1	87.793	87.4697	0.37	35
Fluorene	**1**	**84.1215**	**84.3551**	**0.28**	**34**
4-Chlorophenyl-phenylether	1	85.6636	85.9235	0.3	33
Diethylphthalate	1	54.6001	51.2665	6.3	37
4-Nitroaniline	1	95.0101	96.0554	1.1	35
Atrazine	1	73.2596	75.9411	3.6	47
n-Nitrosodiphenylamine	1	66.9803	66.7046	0.41	37
1,2-Diphenylhydrazine	1	84.5621	84.6821	0.14	36
4-Bromophenyl-phenylether	1	86.9775	86.3212	0.76	34
Hexachlorobenzene	1	83.7053	83.71	0.01	34
N-Octadecane	1	106.7352	107.6432	0.85	31
Phenanthrene	**1**	**84.8283**	**85.273**	**0.52**	**33**
Anthracene	**1**	**86.9712**	**86.9951**	**0.03**	**34**
Carbazole	1	93.7706	95.3959	1.7	32
Di-n-butylphthalate	1	98.316	97.2021	1.1	34
Fluoranthene	**1**	**89.8236**	**89.9789**	**0.17**	**34**
Pyrene	**1**	**89.6565**	**89.6376**	**0.02**	**33**
Benzidine	1	25.2014	25.5158	1.2	213
Butylbenzylphthalate	1	96.3692	96.6368	0.28	34
3,3'-Dichlorobenzidine	1	101.1883	99.4363	1.7	126
Benzo[a]anthracene	**1**	**88.1058**	**88.8905**	**0.89**	**33**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: WMB108840

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chrysene	1	84.8286	86.397	1.8	32
bis(2-Ethylhexyl)phthalate	1	93.3845	93.5093	0.13	33
Di-n-octylphthalate	1	97.6807	96.5161	1.2	36
Benzo[b]fluoranthene	1	99.7326	99.5435	0.19	36
Benzo[k]fluoranthene	1	96.6502	96.3616	0.3	20
Benzo[a]pyrene	1	98.2627	98.9701	0.72	35
Indeno[1,2,3-cd]pyrene	1	90.9266	91.021	0.1	35
Dibenzo[a,h]anthracene	1	92.4113	93.2251	0.88	35
Benzo[g,h,i]perylene	1	86.6206	86.9489	0.38	35

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB108929

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M129516.D	AD38586-007(MS:AD38586-001	6/26/2023 9:57:00 AM
Non Spike(If applicable):	7M129515.D	AD38586-001	6/26/2023 9:34:00 AM
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	11.7553	0	50	24	10	60
Pyridine	1	27.7344	0	50	55	13	107
N-Nitrosodimethylamine	1	33.5856	0	50	67	30	100
Benzaldehyde	1	26.2142	0	50	52	10	121
Aniline	1	13.4379	0	50	27	10	96
Pentachloroethane	1	36.4555	0	50	73	19	125
bis(2-Chloroethyl)ether	1	38.1076	0	50	76	28	120
Phenol	1	72.1214	0	100	72	32	119
2-Chlorophenol	1	76.9564	0	100	77	33	124
N-Decane	1	28.2997	0	50	57	10	142
1,3-Dichlorobenzene	1	36.664	0	50	73	32	105
1,4-Dichlorobenzene	1	35.4118	0	50	71	37	100
1,2-Dichlorobenzene	1	35.9168	0	50	72	29	108
Benzyl alcohol	1	38.4585	0	50	77	37	119
bis(2-chloroisopropyl)ether	1	25.2566	0	50	51	20	110
2-Methylphenol	1	70.2484	0	100	70	38	114
Acetophenone	1	37.8942	0	50	76	11	152
Hexachloroethane	1	34.2633	0	50	69	10	130
N-Nitroso-di-n-propylamine	1	36.1243	0	50	72	10	151
3&4-Methylphenol	1	71.3934	0	100	71	36	127
Nitrobenzene	1	39.9778	0	50	80	20	142
Isophorone	1	33.8541	0	50	68	10	164
2-Nitrophenol	1	74.2001	0	100	74	16	146
2,4-Dimethylphenol	1	71.2482	0	100	71	15	150
Benzoic Acid	1	81.2034	0	100	81	10	182
bis(2-Chloroethoxy)methane	1	38.1485	0	50	76	26	131
2,4-Dichlorophenol	1	76.8376	0	100	77	20	146
1,2,4-Trichlorobenzene	1	38.8168	0	50	78	33	121
Naphthalene	1	39.4636	3.3781	50	72	10	153
4-Chloroaniline	1	19.6013	0	50	39	10	112
Hexachlorobutadiene	1	38.3036	0	50	77	32	113
Caprolactam	1	36.6021	0	50	73	10	174
4-Chloro-3-methylphenol	1	77.5374	0	100	78	32	138
2-Methylnaphthalene	1	43.2536	2.5017	50	82	11	153
1-Methylnaphthalene	1	43.2661	0	50	87	10	180
1,1'-Biphenyl	1	36.8744	0	50	74	18	148
1,2,4,5-Tetrachlorobenzene	1	40.4282	0	50	81	31	124
Hexachlorocyclopentadiene	1	2.0277	0	50	4.1*	10	103
2,4,6-Trichlorophenol	1	79.0867	0	100	79	32	137
2,4,5-Trichlorophenol	1	78.3542	0	100	78	36	131
2-Chloronaphthalene	1	42.2866	0	50	85	41	115
1,4-Dimethylnaphthalene	1	41.2261	0	50	82	10	205
Diphenyl Ether	1	39.9406	0	50	80	31	127
2-Nitroaniline	1	37.7009	0	50	75	32	142
Coumarin	1	41.599	0	50	83	14	160
Acenaphthylene	1	45.9112	2.3292	50	87	26	133
Dimethylphthalate	1	42.255	0	50	85	40	120
2,6-Dinitrotoluene	1	42.8929	0	50	86	18	148
Acenaphthene	1	42.6006	0	50	85	11	158
3-Nitroaniline	1	29.3686	0	50	59	14	137
2,4-Dinitrophenol	1	21.7827	0	100	22	10	128
Dibenzofuran	1	45.455	2.2958	50	86	10	170
2,4-Dinitrotoluene	1	41.7892	0	50	84	10	173
4-Nitrophenol	1	80.6937	0	100	81	23	140
2,3,4,6-Tetrachlorophenol	1	68.2667	0	100	68	26	127
Fluorene	1	42.1418	0	50	84	14	152
4-Chlorophenyl-phenylether	1	40.1305	0	50	80	40	121
Diethylphthalate	1	42.9662	0	50	86	40	119
4-Nitroaniline	1	27.3113	0	50	55	31	125
Atrazine	1	35.908	0	50	72	12	164
4,6-Dinitro-2-methylphenol	1	31.1843	0	100	31	10	146

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB108929

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	37.02	0	50	74	10	172
1,2-Diphenylhydrazine	1	44.3808	0	50	89	24	144
4-Bromophenyl-phenylether	1	40.1429	0	50	80	26	148
Hexachlorobenzene	1	37.7389	0	50	75	36	124
N-Octadecane	1	59.9892	0	50	120	10	186
Pentachlorophenol	1	63.8666	0	100	64	21	148
Phenanthrene	1	61.2581	24.4666	50	74	10	175
Anthracene	1	43.3769	3.4299	50	80	21	148
Carbazole	1	43.5676	2.0178	50	83	36	137
Di-n-butylphthalate	1	45.4522	0	50	91	41	134
Fluoranthene	1	62.5539	27.5135	50	70	10	186
Pyrene	1	63.0863	23.6448	50	79	10	196
Benzidine	1	0	0	50	0*	10	77
Butylbenzylphthalate	1	45.8424	0	50	92	40	139
3,3'-Dichlorobenzidine	1	2.2397	0	50	4.5*	10	110
Benzo[a]anthracene	1	52.7172	13.1811	50	79	13	142
Chrysene	1	64.568	27.8395	50	73	11	161
bis(2-Ethylhexyl)phthalate	1	48.6281	0	50	97	34	156
Di-n-octylphthalate	1	45.9668	0	50	92	28	158
Benzo[b]fluoranthene	1	62.6774	21.8134	50	82	20	156
Benzo[k]fluoranthene	1	50.1828	6.5641	50	87	15	156
Benzo[a]pyrene	1	55.1817	12.8176	50	85	14	144
Indeno[1,2,3-cd]pyrene	1	45.9434	7.7175	50	76	24	142
Dibenzo[a,h]anthracene	1	41.1485	3.057	50	76	29	132
Benzo[g,h,i]perylene	1	42.6044	8.8557	50	67	12	142

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB108929

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M129489.D	AD38586-008(MSD:AD38586-0	6/23/2023 9:45:00 PM
Non Spike(If applicable):	7M129515.D	AD38586-001	6/26/2023 9:34:00 AM
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	13.739	0	50	27	10	60
Pyridine	1	29.524	0	50	59	13	107
N-Nitrosodimethylamine	1	32.1272	0	50	64	30	100
Benzaldehyde	1	22.987	0	50	46	10	121
Aniline	1	18.9524	0	50	38	10	96
Pentachloroethane	1	31.7759	0	50	64	19	125
bis(2-Chloroethyl)ether	1	35.2931	0	50	71	28	120
Phenol	1	67.6026	0	100	68	32	119
2-Chlorophenol	1	73.3012	0	100	73	33	124
N-Decane	1	26.8674	0	50	54	10	142
1,3-Dichlorobenzene	1	34.8274	0	50	70	32	105
1,4-Dichlorobenzene	1	36.8995	0	50	74	37	100
1,2-Dichlorobenzene	1	36.9493	0	50	74	29	208
Benzyl alcohol	1	38.6919	0	50	77	37	119
bis(2-chloroisopropyl)ether	1	24.6825	0	50	49	20	110
2-Methylphenol	1	71.6646	0	100	72	38	114
Acetophenone	1	35.7747	0	50	72	11	152
Hexachloroethane	1	31.5563	0	50	63	10	130
N-Nitroso-di-n-propylamine	1	35.7599	0	50	72	10	151
3&4-Methylphenol	1	72.2388	0	100	72	36	127
Nitrobenzene	1	40.3408	0	50	81	20	142
Isophorone	1	34.3295	0	50	69	10	164
2-Nitrophenol	1	62.4093	0	100	62	16	146
2,4-Dimethylphenol	1	75.4998	0	100	75	15	150
Benzoic Acid	1	84.6643	0	100	85	10	182
bis(2-Chloroethoxy)methane	1	39.1421	0	50	78	26	131
2,4-Dichlorophenol	1	81.2393	0	100	81	20	146
1,2,4-Trichlorobenzene	1	40.8891	0	50	82	33	121
Naphthalene	1	41.7661	3.3781	50	77	10	153
4-Chloroaniline	1	22.4953	0	50	45	10	112
Hexachlorobutadiene	1	42.0789	0	50	84	32	113
Caprolactam	1	35.2928	0	50	71	10	174
4-Chloro-3-methylphenol	1	78.6997	0	100	79	32	138
2-Methylnaphthalene	1	45.8375	2.5017	50	87	11	153
1-Methylnaphthalene	1	43.8799	0	50	88	10	180
1,1'-Biphenyl	1	36.7753	0	50	74	18	148
1,2,4,5-Tetrachlorobenzene	1	39.3557	0	50	79	31	124
Hexachlorocyclopentadiene	1	0	0	50	0*	10	103
2,4,6-Trichlorophenol	1	82.4567	0	100	82	32	137
2,4,5-Trichlorophenol	1	80.1423	0	100	80	36	131
2-Chloronaphthalene	1	41.4952	0	50	83	41	115
1,4-Dimethylnaphthalene	1	39.7334	0	50	79	10	205
Diphenyl Ether	1	38.408	0	50	77	31	127
2-Nitroaniline	1	36.5832	0	50	73	32	142
Coumarin	1	39.5986	0	50	79	14	160
Acenaphthylene	1	48.2115	2.3292	50	92	26	133
Dimethylphthalate	1	41.9778	0	50	84	40	120
2,6-Dinitrotoluene	1	38.3362	0	50	77	18	148
Acenaphthene	1	42.4783	0	50	85	11	158
3-Nitroaniline	1	32.095	0	50	64	14	137
2,4-Dinitrophenol	1	0	0	100	0*	10	128
Dibenzofuran	1	46.1125	2.2958	50	88	10	170
2,4-Dinitrotoluene	1	36.6205	0	50	73	10	173
4-Nitrophenol	1	76.8074	0	100	77	23	140
2,3,4,6-Tetrachlorophenol	1	74.4476	0	100	74	26	126
Fluorene	1	42.638	0	50	85	14	152
4-Chlorophenyl-phenylether	1	40.7879	0	50	82	40	121
Diethylphthalate	1	42.3063	0	50	85	40	119
4-Nitroaniline	1	27.086	0	50	54	31	125
Atrazine	1	36.0739	0	50	72	12	164
4,6-Dinitro-2-methylphenol	1	10.4533	0	100	10	10	146

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB108929

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	**1**	**37.0966**	**0**	**50**	**74**	**10**	**172**
1,2-Diphenylhydrazine	1	41.2889	0	50	83	24	144
4-Bromophenyl-phenylether	**1**	**42.3403**	**0**	**50**	**85**	**26**	**148**
Hexachlorobenzene	**1**	**40.5765**	**0**	**50**	**81**	**36**	**124**
N-Octadecane	1	54.3827	0	50	109	10	186
Pentachlorophenol	**1**	**71.8841**	**0**	**100**	**72**	**21**	**148**
Phenanthrene	**1**	**72.2808**	**24.4666**	**50**	**96**	**10**	**175**
Anthracene	**1**	**46.3729**	**3.4299**	**50**	**86**	**21**	**148**
Carbazole	**1**	**42.64**	**2.0178**	**50**	**81**	**36**	**137**
Di-n-butylphthalate	**1**	**45.1735**	**0**	**50**	**90**	**41**	**134**
Fluoranthene	**1**	**74.1654**	**27.5135**	**50**	**93**	**10**	**186**
Pyrene	**1**	**73.704**	**23.6448**	**50**	**100**	**10**	**196**
Benzidine	1	0	0	50	0*	10	77
Butylbenzylphthalate	**1**	**44.3321**	**0**	**50**	**89**	**40**	**139**
3,3'-Dichlorobenzidine	**1**	**4.3101**	**0**	**50**	**8.6***	**10**	**110**
Benzo[a]anthracene	**1**	**58.2339**	**13.1811**	**50**	**90**	**13**	**142**
Chrysene	**1**	**67.6353**	**27.8395**	**50**	**80**	**11**	**161**
bis(2-Ethylhexyl)phthalate	**1**	**45.3448**	**0**	**50**	**91**	**34**	**156**
Di-n-octylphthalate	**1**	**45.477**	**0**	**50**	**91**	**28**	**158**
Benzo[b]fluoranthene	**1**	**67.8624**	**21.8134**	**50**	**92**	**20**	**156**
Benzo[k]fluoranthene	**1**	**53.2635**	**6.5641**	**50**	**93**	**15**	**156**
Benzo[a]pyrene	**1**	**58.81**	**12.8176**	**50**	**92**	**14**	**144**
Indeno[1,2,3-cd]pyrene	**1**	**44.8454**	**7.7175**	**50**	**74**	**24**	**142**
Dibenzo[a,h]anthracene	**1**	**38.9796**	**3.057**	**50**	**72**	**29**	**132**
Benzo[g,h,i]perylene	**1**	**41.5357**	**8.8557**	**50**	**65**	**12**	**142**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB108929

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M129489.D	AD38586-008(MSD:AD38586-0	6/23/2023 9:45:00 PM
Duplicate(If applicable):	7M129516.D	AD38586-007(MS:AD38586-001	6/26/2023 9:57:00 AM
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
1,4-Dioxane	1	13.739	11.7553	16	62
Pyridine	1	29.524	27.7344	6.3	78
N-Nitrosodimethylamine	1	32.1272	33.5856	4.4	44
Benzaldehyde	1	22.987	26.2142	13	44
Aniline	1	18.9524	13.4379	34	90
Pentachloroethane	1	31.7759	36.4555	14	54
bis(2-Chloroethyl)ether	1	35.2931	38.1076	7.7	47
Phenol	1	67.6026	72.1214	6.5	46
2-Chlorophenol	1	73.3012	76.9564	4.9	47
N-Decane	1	26.8674	28.2997	5.2	62
1,3-Dichlorobenzene	1	34.8274	36.664	5.1	45
1,4-Dichlorobenzene	1	36.8995	35.4118	4.1	40
1,2-Dichlorobenzene	1	36.9493	35.9168	2.8	40
Benzyl alcohol	1	38.6919	38.4585	0.61	49
bis(2-chloroisopropyl)ether	1	24.6825	25.2566	2.3	39
2-Methylphenol	1	71.6646	70.2484	2	46
Acetophenone	1	35.7747	37.8942	5.8	50
Hexachloroethane	1	31.5563	34.2633	8.2	66
N-Nitroso-di-n-propylamine	1	35.7599	36.1243	1	47
3&4-Methylphenol	1	72.2388	71.3934	1.2	49
Nitrobenzene	1	40.3408	39.9778	0.9	48
Isophorone	1	34.3295	33.8541	1.4	47
2-Nitrophenol	1	62.4093	74.2001	17	52
2,4-Dimethylphenol	1	75.4998	71.2482	5.8	48
Benzoic Acid	1	84.6643	81.2034	4.2	70
bis(2-Chloroethoxy)methane	1	39.1421	38.1485	2.6	45
2,4-Dichlorophenol	1	81.2393	76.8376	5.6	47
1,2,4-Trichlorobenzene	1	40.8891	38.8168	5.2	39
Naphthalene	1	41.7661	39.4636	5.7	58
4-Chloroaniline	1	22.4953	19.6013	14	75
Hexachlorobutadiene	1	42.0789	38.3036	9.4	40
Caprolactam	1	35.2928	36.6021	3.6	41
4-Chloro-3-methylphenol	1	78.6997	77.5374	1.5	47
2-Methylnaphthalene	1	45.8375	43.2536	5.8	39
1-Methylnaphthalene	1	43.8799	43.2661	1.4	41
1,1'-Biphenyl	1	36.7753	36.8744	0.27	43
1,2,4,5-Tetrachlorobenzene	1	39.3557	40.4282	2.7	53
Hexachlorocyclopentadiene	1	0	2.0277	200*	113
2,4,6-Trichlorophenol	1	82.4567	79.0867	4.2	63
2,4,5-Trichlorophenol	1	80.1423	78.3542	2.3	49
2-Chloronaphthalene	1	41.4952	42.2866	1.9	53
1,4-Dimethylnaphthalene	1	39.7334	41.2261	3.7	45
Diphenyl Ether	1	38.408	39.9406	3.9	52
2-Nitroaniline	1	36.5832	37.7009	3	46
Coumarin	1	39.5986	41.599	4.9	43
Acenaphthylene	1	48.2115	45.9112	4.9	48
Dimethylphthalate	1	41.9778	42.255	0.66	49
2,6-Dinitrotoluene	1	38.3362	42.8929	11	49
Acenaphthene	1	42.4783	42.6006	0.29	39
3-Nitroaniline	1	32.095	29.3686	8.9	51
2,4-Dinitrophenol	1	0	21.7827	200*	88
Dibenzofuran	1	46.1125	45.455	1.4	45
2,4-Dinitrotoluene	1	36.6205	41.7892	13	47
4-Nitrophenol	1	76.8074	80.6937	4.9	53
2,3,4,6-Tetrachlorophenol	1	74.4476	68.2667	8.7	50
Fluorene	1	42.638	42.1418	1.2	41
4-Chlorophenyl-phenylether	1	40.7879	40.1305	1.6	39
Diethylphthalate	1	42.3063	42.9662	1.5	46
4-Nitroaniline	1	27.086	27.3113	0.83	47
Atrazine	1	36.0739	35.908	0.46	59
4,6-Dinitro-2-methylphenol	1	10.4533	31.1843	100	100

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: SMB108929

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Nitrosodiphenylamine	1	37.0966	37.02	0.21	56
1,2-Diphenylhydrazine	1	41.2889	44.3808	7.2	45
4-Bromophenyl-phenylether	1	42.3403	40.1429	5.3	41
Hexachlorobenzene	1	40.5765	37.7389	7.2	54
N-Octadecane	1	54.3827	59.9892	9.8	42
Pentachlorophenol	1	71.8841	63.8666	12	48
Phenanthrene	1	72.2808	61.2581	17	70
Anthracene	1	46.3729	43.3769	6.7	47
Carbazole	1	42.64	43.5676	2.2	46
Di-n-butylphthalate	1	45.1735	45.4522	0.62	47
Fluoranthene	1	74.1654	62.5539	17	63
Pyrene	1	73.704	63.0863	16	61
Benzidine	1	0	0	NA	267
Butylbenzylphthalate	1	44.3321	45.8424	3.3	40
3,3'-Dichlorobenzidine	1	4.3101	2.2397	63*	48
Benzo[a]anthracene	1	58.2339	52.7172	9.9	55
Chrysene	1	67.6353	64.568	4.6	54
bis(2-Ethylhexyl)phthalate	1	45.3448	48.6281	7	39
Di-n-octylphthalate	1	45.477	45.9668	1.1	60
Benzo[b]fluoranthene	1	67.8624	62.6774	7.9	64
Benzo[k]fluoranthene	1	53.2635	50.1828	6	57
Benzo[a]pyrene	1	58.81	55.1817	6.4	58
Indeno[1,2,3-cd]pyrene	1	44.8454	45.9434	2.4	50
Dibenzo[a,h]anthracene	1	38.9796	41.1485	5.4	45
Benzo[g,h,i]perylene	1	41.5357	42.6044	2.5	48

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: WMB108840
Blank Data File: 10M97623.D
Matrix: Aqueous

Blank Analysis Date: 06/20/23 09:50
Blank Extraction Date: 06/19/23
(If Applicable)
Method: EPA 8270E

Sample Number	Data File	Analysis Date
AD38586-005	10M97641.D	06/20/23 16:42
AD38586-006	10M97642.D	06/20/23 17:05
AD38527-001(MSD	10M97645.D	06/20/23 18:12
AD38527-001(MS)	10M97644.D	06/20/23 17:49
AD38527-001	10M97643.D	06/20/23 17:27
WMB108840(MS)	10M97622.D	06/20/23 09:27

FORM 4
Blank Summary

Blank Number: SMB108929
Blank Data File: 5M124278.D
Matrix: Soil

Blank Analysis Date: 06/23/23 14:31
Blank Extraction Date: 06/23/23
(If Applicable)
Method: EPA 8270E

Sample Number	Data File	Analysis Date
AD38586-003	9M122466.D	06/23/23 17:23
AD38586-004	7M129503.D	06/24/23 03:12
AD38586-007(MS:	7M129516.D	06/26/23 09:57
AD38586-001	7M129515.D	06/26/23 09:34
AD38586-008(MSD	7M129489.D	06/23/23 21:45
SMB108929(MS)	5M124277.D	06/23/23 14:08

FORM 4
Blank Summary

Blank Number: SMB108929
Blank Data File: 5M124278.D
Matrix: Soil

Blank Analysis Date: 06/23/23 14:31
Blank Extraction Date: 06/23/23
(If Applicable)
Method: EPA 8270E

Sample Number	Data File	Analysis Date
AD38586-001	7M129515.D	06/26/23 09:34
AD38586-002	7M129502.D	06/24/23 02:49
AD38586-007(MS:	7M129516.D	06/26/23 09:57
AD38586-008(MSD	7M129489.D	06/23/23 21:45
SMB108929(MS)	5M124277.D	06/23/23 14:08

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 7
Data File: 7M129283.D
Analysis Date: 06/19/23 08:46
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.031 to 10.037 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	41.6	47976	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	46.4	53544	PASS
70	69	0.00	2	0.7	385	PASS
127	198	40	60	56.0	64604	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	115428	PASS
199	198	5	9	6.8	7905	PASS
275	198	10	30	21.9	25328	PASS
365	198	1	100	2.7	3097	PASS
441	443	0.01	100	72.8	11050	PASS
442	198	40	100	65.4	75472	PASS
443	442	17	23	20.1	15179	PASS

Data File	Sample Number	Analysis Date:
7M129284.D	CAL BNA@2PPM	06/19/23 09:10
7M129285.D	CAL BNA@196PP	06/19/23 09:36
7M129286.D	CAL BNA@160PP	06/19/23 10:00
7M129287.D	CAL BNA@120PP	06/19/23 10:23
7M129288.D	CAL BNA@80PPM	06/19/23 10:47
7M129289.D	CAL BNA@20PPM	06/19/23 11:10
7M129290.D	CAL BNA@10PPM	06/19/23 11:34
7M129291.D	CAL BNA@0.5PP	06/19/23 11:57
7M129292.D	CAL BNA@50PPM	06/19/23 12:21
7M129293.D	CAL BNA@80PPM	06/19/23 13:08
7M129294.D	ICV BNA@50PPM	06/19/23 13:32

Form 5

Tune Name: CAL DFTPP **Data File:** 10M97589.D
Instrument: GCMS 10 **Analysis Date:** 06/19/23 09:04
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.023 to 10.028 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	47.3	49116	PASS
68	69	0.00	2	1.8	851	PASS
69	198	0.00	100	46.0	47756	PASS
70	69	0.00	2	0.6	307	PASS
127	198	40	60	55.9	58060	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	103880	PASS
199	198	5	9	6.8	7103	PASS
275	198	10	30	21.2	22013	PASS
365	198	1	100	2.2	2263	PASS
441	443	0.01	100	69.8	7510	PASS
442	198	40	100	49.6	51572	PASS
443	442	17	23	20.9	10759	PASS

Data File	Sample Number	Analysis Date:
10M97590.D	CAL BNA@2PPM	06/19/23 09:27
10M97591.D	CAL BNA@10PPM	06/19/23 09:53
10M97592.D	CAL BNA@196PP	06/19/23 10:15
10M97593.D	CAL BNA@160PP	06/19/23 10:38
10M97594.D	CAL BNA@120PP	06/19/23 11:00
10M97595.D	CAL BNA@80PPM	06/19/23 11:23
10M97596.D	CAL BNA@20PPM	06/19/23 11:45
10M97597.D	CAL BNA@0.5PP	06/19/23 12:11
10M97598.D	CAL BNA@50PPM	06/19/23 12:41
10M97599.D	BNA@80PPM	06/19/23 13:04
10M97600.D	ICV BNA@50PPM	06/19/23 13:27
10M97601.D	108832	06/19/23 13:52
10M97602.D	WMB108832	06/19/23 14:14
10M97603.D	WMB108832(MS)	06/19/23 15:00
10M97604.D	AD38529-003(T)	06/19/23 15:23
10M97605.D	AD38529-001(T)	06/19/23 15:46
10M97606.D	AD38529-001(T)(M	06/19/23 16:09
10M97607.D	AD38529-001(T)(M	06/19/23 16:32
10M97608.D	AD38647-001	06/19/23 16:54
10M97609.D	EF1 V-397210(6/14	06/19/23 17:17
10M97610.D	AD38543-001	06/19/23 17:49
10M97611.D	AD38543-002	06/19/23 18:11
10M97612.D	AD38543-003	06/19/23 18:34
10M97613.D	AD38543-004	06/19/23 18:56
10M97614.D	AD38543-005	06/19/23 19:19
10M97615.D	AD38543-006	06/19/23 19:42
10M97616.D	AD38543-010	06/19/23 20:04
10M97617.D	AD38543-007	06/19/23 20:27
10M97618.D	AD38543-008	06/19/23 20:49
10M97619.D	AD38543-009	06/19/23 21:12

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 10
Data File: 10M97620.D
Analysis Date: 06/20/23 08:41
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.023 to 10.028 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	44.3	48348	PASS
68	69	0.00	2	1.8	842	PASS
69	198	0.00	100	44.0	48028	PASS
70	69	0.00	2	0.6	270	PASS
127	198	40	60	55.0	60008	PASS
197	198	0.00	1	0.3	377	PASS
198	198	100	100	100.0	109132	PASS
199	198	5	9	6.8	7403	PASS
275	198	10	30	20.8	22708	PASS
365	198	1	100	2.0	2137	PASS
441	443	0.01	100	70.4	8249	PASS
442	198	40	100	52.8	57676	PASS
443	442	17	23	20.3	11720	PASS

Data File	Sample Number	Analysis Date:
10M97621.D	CAL BNA@50PPM	06/20/23 09:04
10M97622.D	WMB108840(MS)	06/20/23 09:27
10M97623.D	WMB108840	06/20/23 09:50
10M97624.D	AD38541-012	06/20/23 10:13
10M97625.D	AD38541-001	06/20/23 10:35
10M97626.D	AD38541-002	06/20/23 10:58
10M97627.D	AD38541-003	06/20/23 11:21
10M97628.D	AD38541-004	06/20/23 11:43
10M97629.D	AD38541-005	06/20/23 12:06
10M97630.D	AD38541-006	06/20/23 12:29
10M97631.D	AD38541-007	06/20/23 12:52
10M97632.D	AD38541-008	06/20/23 13:14
10M97633.D	AD38541-009	06/20/23 13:37
10M97634.D	AD38541-010	06/20/23 13:59
10M97635.D	AD38541-011	06/20/23 14:22
10M97636.D	OMB108853(MS)	06/20/23 14:45
10M97637.D	SMB108849(MS)	06/20/23 15:07

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 10
Data File: 10M97638.D
Analysis Date: 06/20/23 15:30
Method: EPA 8270E

Tune Scan/Time Range: Scan 1410

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	41.3	65504	PASS
68	69	0.00	2	1.9	1186	PASS
69	198	0.00	100	40.0	63504	PASS
70	69	0.00	2	0.4	280	PASS
127	198	40	60	53.2	84440	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	158592	PASS
199	198	5	9	7.1	11237	PASS
275	198	10	30	22.2	35168	PASS
365	198	1	100	2.5	3989	PASS
441	443	0.01	100	69.1	13266	PASS
442	198	40	100	59.3	94064	PASS
443	442	17	23	20.4	19200	PASS

Data File	Sample Number	Analysis Date:
10M97639.D	CAL BNA@50PPM	06/20/23 15:53
10M97640.D	SMB108852(MS)	06/20/23 16:20
10M97641.D	AD38586-005	06/20/23 16:42
10M97642.D	AD38586-006	06/20/23 17:05
10M97643.D	AD38527-001	06/20/23 17:27
10M97644.D	AD38527-001(MS)	06/20/23 17:49
10M97645.D	AD38527-001(MSD	06/20/23 18:12
10M97646.D	AD38527-006	06/20/23 18:34
10M97647.D	AD38543-009	06/20/23 18:57
10M97648.D	AD38576-001	06/20/23 19:19
10M97649.D	AD38576-002	06/20/23 19:42
10M97650.D	AD38545-001	06/20/23 20:04
10M97651.D	AD38637-031	06/20/23 20:27

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 9
Data File: 9M122387.D
Analysis Date: 06/21/23 11:22
Method: EPA 8270E

Tune Scan/Time Range: Average of 9.989 to 10.001 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	45.3	17656	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	41.2	16030	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	47.9	18652	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	38941	PASS
199	198	5	9	6.8	2646	PASS
275	198	10	30	25.6	9962	PASS
365	198	1	100	3.3	1290	PASS
441	443	0.01	100	81.7	4698	PASS
442	198	40	100	78.8	30669	PASS
443	442	17	23	18.8	5751	PASS

Data File	Sample Number	Analysis Date:
9M122388.D	CAL BNA@10PPM	06/21/23 11:44
9M122389.D	CAL BNA@2PPM	06/21/23 12:06
9M122390.D	CAL BNA@196PP	06/21/23 12:29
9M122391.D	CAL BNA@160PP	06/21/23 12:51
9M122392.D	CAL BNA@120PP	06/21/23 13:14
9M122393.D	CAL BNA@80PPM	06/21/23 13:36
9M122394.D	CAL BNA@20PPM	06/21/23 13:59
9M122395.D	CAL BNA@0.5PP	06/21/23 14:21
9M122396.D	CAL BNA@50PPM	06/21/23 14:44
9M122397.D	ICV BNA@50PPM	06/21/23 15:07

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 5
Data File: 5M124255.D
Analysis Date: 06/21/23 11:53
Method: EPA 8270E

Tune Scan/Time Range: Scan 1414

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	34.5	28968	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.9	33440	PASS
70	69	0.00	2	0.5	168	PASS
127	198	40	60	48.3	40536	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	83904	PASS
199	198	5	9	7.1	5926	PASS
275	198	10	30	22.4	18760	PASS
365	198	1	100	2.2	1844	PASS
441	443	0.01	100	76.2	7695	PASS
442	198	40	100	60.7	50920	PASS
443	442	17	23	19.8	10097	PASS

Data File	Sample Number	Analysis Date:
5M124256.D	CAL BNA@2PPM	06/21/23 12:17
5M124257.D	CAL BNA@10PPM	06/21/23 12:41
5M124258.D	CAL BNA@196PP	06/21/23 13:04
5M124259.D	CAL BNA@160PP	06/21/23 13:28
5M124260.D	CAL BNA@120PP	06/21/23 13:52
5M124261.D	CAL BNA@80PPM	06/21/23 14:16
5M124262.D	CAL BNA@20PPM	06/21/23 14:39
5M124263.D	CAL BNA@0.5PP	06/21/23 15:03
5M124264.D	CAL BNA@50PPM	06/21/23 15:27
5M124265.D	ICV BNA@50PPM	06/21/23 15:55

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 5
Data File: 5M124271.D
Analysis Date: 06/23/23 08:43
Method: EPA 8270E

Tune Scan/Time Range: Scan 1415

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	30.5	32712	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	34.3	36856	PASS
70	69	0.00	2	0.5	202	PASS
127	198	40	60	45.4	48760	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	107408	PASS
199	198	5	9	7.1	7575	PASS
275	198	10	30	22.8	24464	PASS
365	198	1	100	2.7	2932	PASS
441	443	0.01	100	73.6	10857	PASS
442	198	40	100	72.9	78304	PASS
443	442	17	23	18.8	14746	PASS

Data File	Sample Number	Analysis Date:
5M124272.D	CAL BNA@50PPM	06/23/23 09:06
5M124273.D	WMB108886	06/23/23 09:29
5M124274.D	MDL-1 (AQ)	06/23/23 09:53
5M124275.D	SMB108928(MS)	06/23/23 12:36
5M124276.D	SMB108928	06/23/23 13:00
5M124277.D	SMB108929(MS)	06/23/23 14:08
5M124278.D	SMB108929	06/23/23 14:31

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 9
Data File: 9M122444.D
Analysis Date: 06/23/23 09:06
Method: EPA 8270E

Tune Scan/Time Range: Average of 9.989 to 9.995 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	46.7	26464	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.7	24204	PASS
70	69	0.00	2	0.4	92	PASS
127	198	40	60	49.7	28184	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	56696	PASS
199	198	5	9	6.8	3874	PASS
275	198	10	30	24.5	13882	PASS
365	198	1	100	2.8	1616	PASS
441	443	0.01	100	83.6	6613	PASS
442	198	40	100	72.0	40796	PASS
443	442	17	23	19.4	7914	PASS

Data File	Sample Number	Analysis Date:
9M122445.D	CAL BNA@50PPM	06/23/23 09:28
9M122446.D	WMB108886	06/23/23 09:50
9M122447.D	MDL-1 (AQ)	06/23/23 10:13
9M122448.D	SMB108868(MS)	06/23/23 10:35
9M122449.D	SMB108868	06/23/23 10:58
9M122450.D	AD38653-001	06/23/23 11:20
9M122451.D	AD38653-002	06/23/23 11:43
9M122452.D	AD38653-004	06/23/23 12:06
9M122453.D	AD38653-005	06/23/23 12:28
9M122454.D	AD38653-006	06/23/23 12:51
9M122455.D	AD38554-015	06/23/23 13:13
9M122456.D	AD38554-012	06/23/23 13:36
9M122457.D	AD38653-003	06/23/23 13:59
9M122458.D	AD38554-003	06/23/23 14:21
9M122459.D	AD38554-006	06/23/23 14:44
9M122460.D	AD38554-012(MS)	06/23/23 15:06
9M122461.D	AD38554-012(MSD	06/23/23 15:29
9M122462.D	AD38584-008	06/23/23 15:52
9M122463.D	AD38584-010	06/23/23 16:15
9M122464.D	AD38584-012	06/23/23 16:37
9M122465.D	AD38584-016	06/23/23 17:00
9M122466.D	AD38586-003	06/23/23 17:23
9M122467.D	AD38614-002	06/23/23 17:45
9M122468.D	AD38626-019	06/23/23 18:08
9M122469.D	AD38614-004	06/23/23 18:31
9M122470.D	AD38633-084	06/23/23 18:53
9M122471.D	AD38532-001	06/23/23 19:16
9M122472.D	AD38614-003	06/23/23 19:39
9M122473.D	AD38633-074	06/23/23 20:01
9M122474.D	AD38584-014	06/23/23 20:24

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 7
Data File: 7M129478.D
Analysis Date: 06/23/23 17:25
Method: EPA 8270E

Tune Scan/Time Range: Scan 1285

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	37.7	37472	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.4	42120	PASS
70	69	0.00	2	0.7	299	PASS
127	198	40	60	52.8	52496	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	99376	PASS
199	198	5	9	6.9	6882	PASS
275	198	10	30	23.4	23264	PASS
365	198	1	100	2.6	2615	PASS
441	443	0.01	100	80.2	10636	PASS
442	198	40	100	70.6	70112	PASS
443	442	17	23	18.9	13257	PASS

Data File	Sample Number	Analysis Date:
7M129479.D	CAL BNA@50PPM	06/23/23 17:49
7M129480.D	AD38554-009	06/23/23 18:13
7M129481.D	SMB108928	06/23/23 18:36
7M129482.D	AD38626-014	06/23/23 19:00
7M129483.D	AD38626-018(5X)	06/23/23 19:24
7M129484.D	AD38633-004	06/23/23 19:47
7M129485.D	AD38633-004(MS)	06/23/23 20:11
7M129486.D	AD38633-004(MSD	06/23/23 20:34
7M129487.D	AD38586-001	06/23/23 20:58
7M129488.D	AD38586-007(MS:	06/23/23 21:22
7M129489.D	AD38586-008(MSD	06/23/23 21:45
7M129490.D	AD38633-009	06/23/23 22:08
7M129491.D	AD38633-014	06/23/23 22:32
7M129492.D	AD38633-034	06/23/23 22:55
7M129493.D	AD38633-039	06/23/23 23:19
7M129494.D	AD38633-044	06/23/23 23:42
7M129495.D	AD38633-049	06/24/23 00:05
7M129496.D	AD38633-054	06/24/23 00:29
7M129497.D	AD38674-002	06/24/23 00:52
7M129498.D	AD38618-001(5X)	06/24/23 01:15
7M129499.D	AD38633-059	06/24/23 01:39
7M129500.D	AD38534-001(3X)	06/24/23 02:02
7M129501.D	AD38534-002(3X)	06/24/23 02:25
7M129502.D	AD38586-002	06/24/23 02:49
7M129503.D	AD38586-004	06/24/23 03:12
7M129504.D	AD38584-006	06/24/23 03:35
7M129505.D	AD38633-019	06/24/23 03:59
7M129506.D	AD38633-024	06/24/23 04:22
7M129507.D	AD38633-029	06/24/23 04:45
7M129508.D	AD38633-064	06/24/23 05:09
7M129509.D	AD38633-069	06/24/23 05:32
7M129510.D	AD38633-079	06/24/23 05:55

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 7
Data File: 7M129511.D
Analysis Date: 06/26/23 07:49
Method: EPA 8270E

Tune Scan/Time Range: Scan 1289

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	40.4	44960	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	45.5	50664	PASS
70	69	0.00	2	0.8	389	PASS
127	198	40	60	57.1	63584	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	111408	PASS
199	198	5	9	6.8	7566	PASS
275	198	10	30	23.4	26024	PASS
365	198	1	100	2.7	2989	PASS
441	443	0.01	100	75.1	10809	PASS
442	198	40	100	68.7	76544	PASS
443	442	17	23	18.8	14387	PASS

Data File	Sample Number	Analysis Date:
7M129512.D	CAL BNA@50PPM	06/26/23 08:22
7M129513.D	SMB108928	06/26/23 08:46
7M129514.D	AD38633-004	06/26/23 09:10
7M129515.D	AD38586-001	06/26/23 09:34
7M129516.D	AD38586-007(MS:	06/26/23 09:57
7M129517.D	AD38633-009	06/26/23 10:21
7M129518.D	AD38633-034	06/26/23 10:45
7M129519.D	AD38633-069	06/26/23 11:09
7M129520.D	AD38633-079	06/26/23 11:33
7M129521.D	AD38590-025	06/26/23 11:57
7M129522.D	AD38590-029	06/26/23 12:21
7M129523.D	AD38590-039	06/26/23 12:44
7M129524.D	AD38590-043	06/26/23 13:08
7M129525.D	AD38590-035(3X)	06/26/23 13:32
7M129526.D	AD38590-031(3X)	06/26/23 13:56
7M129527.D	AD38590-025(MS)	06/26/23 14:20
7M129528.D	AD38590-031(3X)	06/26/23 14:43
7M129529.D	AD38590-025(MSD	06/26/23 15:07
7M129530.D	SMB108906	06/26/23 15:31
7M129531.D	AD38582-001	06/26/23 15:55
7M129532.D	AD38582-002(3X)	06/26/23 16:31
7M129533.D	AD38590-025(MSD	06/26/23 16:55
7M129534.D	AD38582-003	06/26/23 17:19
7M129535.D	AD38582-004	06/26/23 17:43
7M129536.D	AD38584-036	06/26/23 18:07
7M129537.D	AD38584-040	06/26/23 18:30
7M129538.D	AD38590-001	06/26/23 18:54
7M129539.D	AD38590-003	06/26/23 19:18
7M129540.D	AD38590-005	06/26/23 19:41
7M129541.D	AD38590-009	06/26/23 20:05
7M129542.D	AD38590-011	06/26/23 20:28

FORM8

Internal Standard Areas

Evaluation Std Data File: 7M129292.D Method: EPA 8270E

Analysis Date/Time: 06/19/23 12:21

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	72028	2.62	114846	5.82	457566	6.84	272153	8.27	477035	9.75	380525	12.82	385859	14.49
Eval File Area Limit:	36014-144056		57423-229692		228783-915132		136076-544306		238518-954070		190262-761050		192930-771718	
Eval File Rt Limit:	2.12-3.12		5.32-6.32		6.34-7.34		7.77-8.77		9.25-10.25		12.32-13.32		13.99-14.99	

Data File	Sample#													
7M129284.D	CAL BNA@2PPM	77595	2.62	132834	5.82	541464	6.83	327568	8.27	548905	9.74	448163	12.82	421975	14.47
7M129285.D	CAL BNA@196PPM	71956	2.62	110326	5.83	455871	6.85	283868	8.29	499024	9.76	363392	12.84	384115	14.49
7M129286.D	CAL BNA@160PPM	58033	2.62	89948	5.83	362779	6.84	214980	8.28	374761	9.75	290491	12.83	303314	14.50
7M129287.D	CAL BNA@120PPM	58375	2.62	92509	5.82	370507	6.84	218963	8.28	382412	9.75	292670	12.83	304562	14.49
7M129289.D	CAL BNA@20PPM	73993	2.62	122688	5.82	504615	6.84	293451	8.27	502170	9.74	417689	12.82	411292	14.48
7M129290.D	CAL BNA@10PPM	63671	2.62	109781	5.82	448168	6.84	263470	8.27	447825	9.74	370466	12.82	352262	14.47
7M129291.D	CAL BNA@0.5PPM	74966	2.62	130341	5.82	527908	6.84	313798	8.27	526689	9.74	436055	12.82	420092	14.47
7M129292.D	CAL BNA@50PPM	72028	2.62	114846	5.82	457566	6.84	272153	8.27	477035	9.75	380525	12.82	385859	14.49
7M129293.D	CAL BNA@80PPM	75624	2.62	119899	5.82	489980	6.84	300270	8.27	517047	9.75	409943	12.82	418743	14.48
7M129294.D	ICV BNA@50PPM	73398	2.62	118393	5.82	470091	6.84	279958	8.27	483373	9.74	393000	12.82	387963	14.47

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 10M97598.D Method: EPA 8270E

Analysis Date/Time: 06/19/23 12:41

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	71702	2.69	122863	5.86	474932	6.86	261356	8.29	432960	9.75	374358	12.79	354240	14.41
Eval File Area Limit:	35851-143404		61432-245726		237466-949864		130678-522712		216480-865920		187179-748716		177120-708480	
Eval File Rt Limit:	2.19-3.19		5.36-6.36		6.36-7.36		7.79-8.79		9.25-10.25		12.29-13.29		13.91-14.91	

Data File	Sample#													
10M97590.D	CAL BNA@2PPM	86403	2.68	150405	5.86	591528	6.86	326795	8.29	538185	9.75	452627	12.79	440842	14.41
10M97591.D	CAL BNA@10PPM	59102	2.69	102240	5.86	398538	6.86	220308	8.29	355412	9.75	307141	12.79	298722	14.41
10M97592.D	CAL BNA@196PPM	67023	2.68	114435	5.87	459732	6.87	247643	8.30	407590	9.76	361520	12.80	352945	14.41
10M97593.D	CAL BNA@160PPM	69655	2.68	118935	5.87	470558	6.87	256908	8.30	429800	9.75	383265	12.80	373165	14.41
10M97594.D	CAL BNA@120PPM	69603	2.68	122489	5.87	479589	6.87	261537	8.30	437078	9.75	380455	12.80	367088	14.41
10M97595.D	CAL BNA@80PPM	74212	2.69	129243	5.86	502383	6.87	274212	8.29	456762	9.75	399448	12.80	380436	14.41
10M97596.D	CAL BNA@20PPM	65763	2.69	116259	5.86	453405	6.86	245004	8.29	405872	9.75	350733	12.79	336228	14.41
10M97597.D	CAL BNA@0.5PPM	74101	2.68	127874	5.86	498348	6.86	268679	8.29	443979	9.75	380084	12.79	371743	14.41
10M97598.D	CAL BNA@50PPM	71702	2.69	122863	5.86	474932	6.86	261356	8.29	432960	9.75	374358	12.79	354240	14.41
10M97599.D	BNA@80PPM	77003	2.69	133377	5.86	525394	6.86	282340	8.29	469070	9.75	404170	12.79	389943	14.41
10M97600.D	ICV BNA@50PPM	65285	2.68	115232	5.86	443653	6.86	244353	8.29	406392	9.75	352210	12.79	339706	14.41
10M97601.D	108832	1737A	2.69	3888A	5.86	17930A	6.87	13297A	8.29	21679A	9.75	19539A	12.80	16973A	14.41
10M97602.D	WMB108832	64381	2.69	115176	5.86	450266	6.86	248781	8.29	413961	9.75	331408	12.79	315742	14.41
10M97603.D	WMB108832(MS)	81278	2.69	143335	5.86	569896	6.87	321485	8.29	536421	9.75	460206	12.80	438307	14.41
10M97604.D	AD38529-003(T)	81818	2.70	143310	5.86	562019	6.86	308302	8.29	514258	9.75	420362	12.79	401917	14.41
10M97605.D	AD38529-001(T)	85619	2.70	148811	5.86	579534	6.86	322968	8.29	529966	9.75	428495	12.79	409874	14.41
10M97606.D	AD38529-001(T)(MS)	88760	2.70	152774	5.87	599370	6.87	332772	8.29	555837	9.75	473515	12.80	452137	14.41
10M97607.D	AD38529-001(T)(MSD	85509	2.70	149140	5.86	582584	6.87	323141	8.29	532869	9.75	457476	12.80	435611	14.41
10M97609.D	EF1 V-397210(6/14)	79797	2.70	138514	5.86	543941	6.86	299508	8.29	494731	9.75	398347	12.79	378715	14.41
10M97610.D	AD38543-001	84559	2.68	144713	5.86	565527	6.86	310277	8.29	509570	9.75	420800	12.79	404086	14.41
10M97611.D	AD38543-002	75273	2.69	131651	5.86	511578	6.86	281014	8.29	458164	9.75	372273	12.79	358289	14.41
10M97612.D	AD38543-003	80153	2.69	137436	5.86	538164	6.86	293175	8.29	486871	9.75	397175	12.79	381239	14.41
10M97613.D	AD38543-004	82070	2.69	143371	5.86	553255	6.86	303083	8.29	497897	9.75	406119	12.79	390779	14.41
10M97614.D	AD38543-005	77527	2.69	135984	5.86	524466	6.86	282693	8.29	473314	9.75	383629	12.79	366295	14.41
10M97615.D	AD38543-006	80361	2.68	139560	5.86	544224	6.86	292760	8.29	482379	9.75	399413	12.79	388884	14.41
10M97616.D	AD38543-010	76860	2.68	132842	5.86	523811	6.86	285053	8.29	467780	9.75	384438	12.79	365798	14.41
10M97617.D	AD38543-007	76932	2.68	134427	5.86	519723	6.86	285757	8.29	474212	9.75	392511	12.79	376647	14.41
10M97618.D	AD38543-008	76926	2.68	134430	5.86	520290	6.86	282471	8.29	469983	9.75	394816	12.79	380814	14.41
10M97619.D	AD38543-009	74173	2.68	128535	5.86	492102	6.87	295301	8.30	494096	9.76	409497	12.79	389800	14.41

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 10M97621.D Method: EPA 8270E

Analysis Date/Time: 06/20/23 09:04

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	69577	2.67	120688	5.86	473273	6.86	262215	8.29	440271	9.74	388081	12.79	366645	14.41
Eval File Area Limit:	34788-139154		60344-241376		236636-946546		131108-524430		220136-880542		194040-776162		183322-733290	
Eval File Rt Limit:	2.17-3.17		5.36-6.36		6.36-7.36		7.79-8.79		9.24-10.24		12.29-13.29		13.91-14.91	

Data File	Sample#													
10M97622.D	WMB108840(MS)	72335	2.68	127344	5.86	498455	6.86	276072	8.29	461686	9.75	397986	12.79	375524	14.41
10M97623.D	WMB108840	71490	2.67	122873	5.86	486339	6.86	271459	8.28	457271	9.74	377586	12.79	356275	14.41
10M97624.D	AD38541-012	57485	2.68	101664	5.86	396620	6.86	224344	8.28	368594	9.74	302385	12.79	282807	14.41
10M97625.D	AD38541-001	70250	2.67	122661	5.86	478191	6.86	264991	8.28	451899	9.74	367251	12.79	346957	14.41
10M97626.D	AD38541-002	70602	2.68	122832	5.86	480930	6.86	269647	8.29	452281	9.74	369622	12.79	349786	14.41
10M97627.D	AD38541-003	68925	2.68	119982	5.86	469101	6.86	261538	8.29	439615	9.74	356715	12.79	342473	14.41
10M97628.D	AD38541-004	72832	2.68	126304	5.86	491024	6.86	275104	8.28	466990	9.75	379344	12.79	359369	14.41
10M97629.D	AD38541-005	68915	2.68	118160	5.86	464573	6.86	257566	8.29	439666	9.74	355346	12.79	336092	14.41
10M97630.D	AD38541-006	68279	2.68	120615	5.86	470154	6.86	259691	8.29	430363	9.75	356861	12.79	335488	14.41
10M97631.D	AD38541-007	70073	2.68	122592	5.86	480904	6.86	265706	8.28	446267	9.74	366701	12.79	342919	14.41
10M97632.D	AD38541-008	69645	2.68	123023	5.86	478575	6.86	266132	8.29	448360	9.75	365673	12.79	343452	14.41
10M97633.D	AD38541-009	72802	2.68	126988	5.86	500459	6.86	277831	8.28	466036	9.75	380059	12.79	354605	14.41
10M97634.D	AD38541-010	69896	2.67	119077	5.86	463592	6.86	253870	8.28	430413	9.75	345498	12.79	323048	14.41
10M97635.D	AD38541-011	67972	2.68	118216	5.86	463476	6.86	256526	8.28	435259	9.74	346064	12.79	324559	14.41
10M97636.D	OMB108853(MS)	73181	2.67	124723	5.86	495220	6.86	277737	8.29	463089	9.75	399311	12.79	366342	14.41
10M97637.D	SMB108849(MS)	84601	2.66	112271	5.86	438361	6.86	242667	8.29	409137	9.75	349344	12.79	321103	14.41

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 10M97639.D Method: EPA 8270E

Analysis Date/Time: 06/20/23 15:53

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	81016	2.68	142334	5.86	555799	6.86	311346	8.29	514552	9.75	448305	12.79	426568	14.41
Eval File Area Limit:	40508-162032		71167-284668		277900-1111598		155673-622692		257276-1029104		224152-896610		213284-853136	
Eval File Rt Limit:	2.18-3.18		5.36-6.36		6.36-7.36		7.79-8.79		9.25-10.25		12.29-13.29		13.91-14.91	

Data File	Sample#													
10M97640.D	SMB108852(MS)	131103	2.66	142660	5.86	551301	6.86	306757	8.29	520985	9.75	449345	12.79	421607	14.41
10M97641.D	AD38586-005	94300	2.68	167527	5.86	657658	6.86	363327	8.28	618552	9.75	502175	12.79	481706	14.41
10M97642.D	AD38586-006	89340	2.68	159442	5.86	628570	6.86	345727	8.28	573585	9.74	469829	12.79	448148	14.41
10M97643.D	AD38527-001	89094	2.68	160064	5.86	624022	6.86	342617	8.28	569935	9.75	471152	12.79	446926	14.41
10M97644.D	AD38527-001(MS)	87114	2.68	154640	5.86	599692	6.86	334870	8.29	561738	9.75	477600	12.80	450551	14.41
10M97645.D	AD38527-001(MSD)	91647	2.68	161311	5.86	624811	6.86	347529	8.29	581735	9.75	493734	12.80	462381	14.41
10M97646.D	AD38527-006	91772	2.68	161091	5.86	629570	6.86	351115	8.28	587051	9.75	476642	12.79	444428	14.41
10M97647.D	AD38543-009	91060	2.68	165369	5.86	610876	6.86	370875	8.30	623559	9.76	520824	12.79	492949	14.41
10M97648.D	AD38576-001	91192	2.68	157855	5.86	630954	6.86	349311	8.28	577242	9.74	466420	12.79	439381	14.41
10M97649.D	AD38576-002	89403	2.68	158251	5.86	614715	6.86	337725	8.29	563222	9.74	456615	12.79	428088	14.41
10M97650.D	AD38545-001	89629	2.68	157881	5.86	611536	6.86	340433	8.29	561302	9.75	459004	12.79	428986	14.41
10M97651.D	AD38637-031	89701	2.68	155802	5.86	606186	6.86	333326	8.29	556200	9.74	448654	12.79	417934	14.41

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 9M122396.D Method: EPA 8270E

Analysis Date/Time: 06/21/23 14:44

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	28755	2.58	53960	5.81	196166	6.82	103536	8.25	187463	9.71	176141	12.75	180071	14.37
Eval File Area Limit:	14378-57510		26980-107920		98083-392332		51768-207072		93732-374926		88070-352282		90036-360142	
Eval File Rt Limit:	2.08-3.08		5.31-6.31		6.32-7.32		7.75-8.75		9.21-10.21		12.25-13.25		13.87-14.87	

Data File	Sample#													
9M122388.D	CAL BNA@10PPM	22077	2.58	43453	5.81	157783	6.82	84566	8.24	150661	9.71	142900	12.75	146108	14.37
9M122389.D	CAL BNA@2PPM	24343	2.58	47229	5.81	171985	6.82	94085	8.24	169314	9.71	157359	12.75	162075	14.37
9M122390.D	CAL BNA@196PPM	25917	2.58	45818	5.81	165680	6.82	90112	8.25	169256	9.71	154408	12.76	162742	14.37
9M122391.D	CAL BNA@160PPM	25260	2.58	46712	5.81	167100	6.82	89053	8.25	163851	9.71	155214	12.76	163284	14.37
9M122392.D	CAL BNA@120PPM	25317	2.57	48274	5.81	171029	6.82	92999	8.25	169112	9.71	156872	12.76	162796	14.37
9M122393.D	CAL BNA@80PPM	26575	2.57	48407	5.81	176975	6.82	96419	8.25	178707	9.71	168368	12.76	173643	14.37
9M122394.D	CAL BNA@20PPM	27623	2.57	52672	5.81	192098	6.82	105150	8.24	188928	9.71	172575	12.75	177486	14.37
9M122395.D	CAL BNA@0.5PPM	25900	2.57	50542	5.81	185669	6.82	100737	8.24	181464	9.70	166801	12.75	167951	14.37
9M122396.D	CAL BNA@50PPM	28755	2.58	53960	5.81	196166	6.82	103536	8.25	187463	9.71	176141	12.75	180071	14.37
9M122397.D	ICV BNA@50PPM	25906	2.57	47685	5.81	171684	6.82	92971	8.24	170769	9.71	159443	12.75	161831	14.37

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 5M124264.D Method: EPA 8270E

Analysis Date/Time: 06/21/23 15:27

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	52985	2.35	74399	5.64	250978	6.66	139070	8.06	254424	9.50	237728	12.54	226792	14.14
Eval File Area Limit:	26492-105970		37200-148798		125489-501956		69535-278140		127212-508848		118864-475456		113396-453584	
Eval File Rt Limit:	1.85-2.85		5.14-6.14		6.16-7.16		7.56-8.56		9-10		12.04-13.04		13.64-14.64	
Data File Sample#														
5M124256.D CAL BNA@2PPM	47120	2.35	68330	5.64	244363	6.65	138111	8.06	248753	9.50	223754	12.54	222201	14.14
5M124257.D CAL BNA@10PPM	46121	2.36	66413	5.64	232816	6.65	129563	8.06	233711	9.50	210427	12.54	208245	14.14
5M124258.D CAL BNA@196PPM	50530	2.35	66615	5.65	228370	6.66	128595	8.06	237934	9.50	226870	12.55	213673	14.15
5M124259.D CAL BNA@160PPM	50724	2.35	67561	5.65	232381	6.66	129184	8.06	233393	9.50	225259	12.55	216306	14.15
5M124260.D CAL BNA@120PPM	51309	2.36	71242	5.65	244578	6.66	134400	8.06	241766	9.50	228847	12.54	223580	14.14
5M124261.D CAL BNA@80PPM	54825	2.35	76871	5.65	263834	6.66	149394	8.06	274717	9.50	259957	12.54	250220	14.14
5M124262.D CAL BNA@20PPM	53086	2.35	78280	5.64	272851	6.65	150848	8.05	279073	9.50	252777	12.54	250036	14.14
5M124263.D CAL BNA@0.5PPM	50767	2.35	75450	5.64	262081	6.65	147339	8.06	260497	9.50	236420	12.54	228305	14.14
5M124264.D CAL BNA@50PPM	52985	2.35	74399	5.64	250978	6.66	139070	8.06	254424	9.50	237728	12.54	226792	14.14
5M124265.D ICV BNA@50PPM	52855	2.36	72888	5.65	246724	6.66	136453	8.06	253693	9.50	236998	12.54	220146	14.14

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 5M124272.D Method: EPA 8270E

Analysis Date/Time: 06/23/23 09:06

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	64535	2.35	90180	5.64	321716	6.66	173874	8.06	320185	9.50	303317	12.54	289493	14.14
Eval File Area Limit:	32268-129070		45090-180360		160858-643432		86937-347748		160092-640370		151658-606634		144746-578986	
Eval File Rt Limit:	1.85-2.85		5.14-6.14		6.16-7.16		7.56-8.56		9-10		12.04-13.04		13.64-14.64	
Data File Sample#														
5M124273.D WMB108886	77873	2.35	114036	5.64	410078	6.65	231679	8.06	410954	9.50	355499	12.54	351346	14.14
5M124274.D MDL-1 (AQ)	55314	2.36	79387	5.64	283002	6.65	157946	8.06	281608	9.50	238066	12.54	236046	14.14
5M124275.D SMB108928(MS)	91748	2.33	85862	5.64	283373	6.66	159711	8.06	283100	9.50	262533	12.54	244841	14.15
5M124276.D SMB108928	68848	2.34	77141	5.64	279831	6.65	157166	8.06	285586	9.50	240690	12.54	228127	14.14
5M124277.D SMB108929(MS)	101756	2.34	70437	5.64	249301	6.66	137827	8.06	249639	9.50	222750	12.54	218861	14.15
5M124278.D SMB108929	85918	2.34	67067	5.64	247684	6.65	138887	8.06	257627	9.50	217479	12.54	211374	14.14

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

3061429 0307

FORM8

Internal Standard Areas

Evaluation Std Data File: 9M122445.D Method: EPA 8270E

Analysis Date/Time: 06/23/23 09:28

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	30443	2.58	59610	5.81	218598	6.82	119758	8.25	218481	9.71	201643	12.76	202415	14.37
Eval File Area Limit:	15222-60886		29805-119220		109299-437196		59879-239516		109240-436962		100822-403286		101208-404830	
Eval File Rt Limit:	2.08-3.08		5.31-6.31		6.32-7.32		7.75-8.75		9.21-10.21		12.26-13.26		13.87-14.87	
Data File	Sample#													
9M122446.D	WMB108886	25509	2.57	49076	5.81	177646	6.82	100636	8.24	178737	9.70	159148	12.75	157604	14.37
9M122447.D	MDL-1 (AQ)	26844	2.57	52726	5.81	192772	6.82	105459	8.24	189002	9.70	167284	12.75	171350	14.37
9M122448.D	SMB108868(MS)	28079	2.55	53896	5.81	197928	6.82	110027	8.24	196642	9.71	183349	12.75	173592	14.37
9M122449.D	SMB108868	28972	2.55	58789	5.81	225001	6.82	128120	8.24	227084	9.71	201204	12.75	188886	14.37
9M122450.D	AD38653-001	29834	2.56	52265	5.81	189447	6.82	105540	8.24	187745	9.70	166350	12.75	157547	14.37
9M122451.D	AD38653-002	24307	2.55	45307	5.81	166918	6.82	93025	8.24	162339	9.70	145595	12.75	142743	14.37
9M122452.D	AD38653-004	25580	2.55	46912	5.81	172771	6.82	96174	8.24	169238	9.70	151569	12.75	148715	14.37
9M122453.D	AD38653-005	28532	2.55	52380	5.81	193887	6.82	107268	8.24	188126	9.70	169302	12.75	166241	14.37
9M122454.D	AD38653-006	23335	2.56	43540	5.81	161219	6.82	89083	8.24	157568	9.70	139238	12.75	135810	14.37
9M122455.D	AD38554-015	27108	2.56	50357	5.81	186454	6.82	102596	8.24	178741	9.70	160139	12.75	160337	14.37
9M122456.D	AD38554-012	25000	2.55	47573	5.81	177357	6.82	94594	8.24	169523	9.70	146169	12.75	146762	14.37
9M122457.D	AD38653-003	27480	2.57	53060	5.81	192838	6.82	106606	8.24	188112	9.70	162435	12.75	158806	14.37
9M122458.D	AD38554-003	24895	2.57	45541	5.81	167824	6.82	93446	8.24	159096	9.71	138733	12.75	140820	14.37
9M122459.D	AD38554-006	26031	2.56	48402	5.81	182724	6.82	99664	8.24	172539	9.71	148448	12.75	147363	14.37
9M122460.D	AD38554-012(MS)	25914	2.56	45806	5.81	168034	6.82	91323	8.24	163648	9.71	142613	12.75	141506	14.37
9M122461.D	AD38554-012(MSD)	27381	2.56	49364	5.81	177222	6.82	96845	8.24	169735	9.71	149113	12.76	148534	14.37
9M122462.D	AD38584-008	24452	2.56	46529	5.81	170052	6.82	95061	8.24	166088	9.71	142127	12.75	137163	14.37
9M122463.D	AD38584-010	24539	2.57	46076	5.81	166699	6.82	92337	8.24	165435	9.71	139893	12.75	137297	14.37
9M122464.D	AD38584-012	25151	2.57	47023	5.81	174464	6.82	95419	8.24	166834	9.70	140935	12.75	137702	14.37
9M122465.D	AD38584-016	35321	2.57	48186	5.81	181449	6.82	98843	8.24	173658	9.71	149958	12.75	147081	14.37
9M122466.D	AD38586-003	27278	2.56	46929	5.81	174815	6.82	95960	8.24	168778	9.71	147939	12.75	149336	14.37
9M122467.D	AD38614-002	25598	2.57	46899	5.81	176831	6.82	96858	8.24	171924	9.71	151752	12.75	144776	14.37
9M122468.D	AD38626-019	38659	2.56	72746	5.81	271950	6.82	146557	8.24	260928	9.71	227867	12.75	221328	14.37
9M122469.D	AD38614-004	39798	2.57	53624	5.81	198745	6.82	110046	8.24	190336	9.71	161220	12.75	162622	14.37
9M122470.D	AD38633-084	27358	2.56	49696	5.81	184728	6.82	102359	8.24	178814	9.71	152983	12.75	154668	14.37
9M122471.D	AD38532-001	24246	2.57	46768	5.81	169284	6.82	95950	8.24	155285	9.71	140127	12.75	141544	14.37
9M122472.D	AD38614-003	40094	2.57	55125	5.81	202672	6.82	112652	8.24	200298	9.71	170348	12.75	168431	14.37
9M122473.D	AD38633-074	25514	2.57	48992	5.81	179288	6.82	98363	8.24	175906	9.71	150387	12.75	147564	14.37
9M122474.D	AD38584-014	28085	2.57	50958	5.81	191724	6.82	104698	8.24	186757	9.71	161833	12.75	157660	14.37

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

3061429 0308

FORM8

Internal Standard Areas

Evaluation Std Data File: 7M129479.D Method: EPA 8270E

Analysis Date/Time: 06/23/23 17:49

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	69033	2.62	123570	5.83	511713	6.84	318304	8.27	557252	9.75	401239	12.83	398879	14.49
Eval File Area Limit:	34516-138066		61785-247140		255856-1023426		159152-636608		278626-1114504		200620-802478		199440-797758	
Eval File Rt Limit:	2.12-3.12		5.33-6.33		6.34-7.34		7.77-8.77		9.25-10.25		12.33-13.33		13.99-14.99	

Data File	Sample#													
7M129480.D	AD38554-009	64177	2.63	110244	5.83	412820	6.83	220291	8.27	325983	9.75	252990	12.84	247667	14.50
7M129481.D	SMB108928	49492	2.62	88659	5.83	344581	6.83	186428	8.27	278228A	9.75	196060A	12.83	187604A	14.48
7M129482.D	AD38626-014	58249	2.62	102281	5.82	373739	6.83	206429	8.27	329012	9.75	237004	12.83	234588	14.49
7M129483.D	AD38626-018(5X)	74938	2.62	139281	5.83	555119	6.84	300474	8.27	459502	9.75	318942	12.83	310206	14.49
7M129484.D	AD38633-004	50507	2.62	87919	5.83	336484	6.84	183036	8.27	276176A	9.75	196765A	12.83	194597A	14.49
7M129485.D	AD38633-004(MS)	50485	2.62	86895	5.83	334492	6.84	185668	8.27	293272	9.75	203825	12.83	199844	14.49
7M129486.D	AD38633-004(MSD)	75308	2.63	124600	5.83	471750	6.84	264752	8.27	418973	9.75	300205	12.83	295516	14.49
7M129487.D	AD38586-001	49457	2.62	82563	5.83	314546	6.84	167929	8.27	265073A	9.75	192644A	12.83	181532A	14.49
7M129488.D	AD38586-007(MS:AD	49859	2.62	84270	5.83	317340	6.84	176207	8.27	283729	9.75	202168	12.84	192152A	14.50
7M129489.D	AD38586-008(MSD:A	74572	2.63	120649	5.83	447879	6.84	250267	8.27	404387	9.76	300578	12.85	285622	14.50
7M129490.D	AD38633-009	50845	2.62	92726	5.83	358576	6.84	193984	8.27	286421	9.75	206784	12.83	191679A	14.49
7M129491.D	AD38633-014	66185	2.62	120876	5.83	472499	6.84	258651	8.27	385402	9.75	286541	12.83	259434	14.49
7M129492.D	AD38633-034	46558	2.62	84059	5.83	328189	6.84	180889	8.27	273317A	9.75	190796A	12.83	170627A	14.49
7M129493.D	AD38633-039	70218	2.63	126814	5.83	502066	6.84	274763	8.27	423459	9.75	299356	12.83	274805	14.49
7M129494.D	AD38633-044	70489	2.63	126910	5.83	503206	6.84	276794	8.27	424464	9.75	299026	12.83	267850	14.49
7M129495.D	AD38633-049	66399	2.62	119783	5.83	474125	6.84	264748	8.27	398044	9.75	281799	12.83	248132	14.49
7M129496.D	AD38633-054	65950	2.62	122513	5.83	480210	6.84	266818	8.27	397512	9.75	285696	12.83	255540	14.49
7M129497.D	AD38674-002	70480	2.63	124503	5.83	483017	6.84	256971	8.27	395174	9.75	299368	12.83	257472	14.49
7M129498.D	AD38618-001(5X)	60884	2.63	117389	5.83	458425	6.84	251905	8.27	381544	9.75	267584	12.83	231994	14.49
7M129499.D	AD38633-059	63453	2.62	115052	5.83	451790	6.84	247464	8.27	370456	9.75	271810	12.83	235342	14.49
7M129500.D	AD38534-001(3X)	59648	2.63	115378	5.83	449281	6.84	223528	8.27	328960	9.76	283591	12.83	232976	14.49
7M129501.D	AD38534-002(3X)	60716	2.62	113288	5.83	435944	6.84	215858	8.27	323535	9.76	282003	12.84	237238	14.49
7M129502.D	AD38586-002	69446	2.62	121787	5.83	460107	6.84	243831	8.27	391819	9.76	302451	12.84	252734	14.50
7M129503.D	AD38586-004	70026	2.63	118230	5.83	452016	6.84	244160	8.27	372846	9.75	278634	12.84	230133	14.49
7M129504.D	AD38584-006	58830	2.63	109166	5.83	430892	6.84	237437	8.27	366690	9.75	259378	12.83	215290	14.49
7M129505.D	AD38633-019	65547	2.62	122025	5.83	475448	6.84	259510	8.27	395358	9.75	289454	12.83	242131	14.49
7M129506.D	AD38633-024	54650	2.63	104394	5.83	402359	6.84	220149	8.27	340731	9.75	243598	12.83	202664	14.49
7M129507.D	AD38633-029	66695	2.63	121992	5.83	476731	6.84	263907	8.27	411168	9.75	291201	12.83	240638	14.49
7M129508.D	AD38633-064	60871	2.62	114361	5.83	449775	6.84	246532	8.27	374552	9.76	268255	12.84	230495	14.49
7M129509.D	AD38633-069	61670	2.62	113071	5.83	457387	6.84	251045	8.27	388629	9.75	272166	12.83	229498	14.49
7M129510.D	AD38633-079	64828	2.62	121360	5.83	478390	6.84	262713	8.27	410537	9.75	287593	12.83	232863	14.49

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 7M129512.D Method: EPA 8270E

Analysis Date/Time: 06/26/23 08:22

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	53587	2.62	94603	5.83	390195	6.85	230660	8.29	396735	9.77	281797	12.85	269881	14.52
Eval File Area Limit:	26794-107174		47302-189206		195098-780390		115330-461320		198368-793470		140898-563594		134940-539762	
Eval File Rt Limit:	2.12-3.12		5.33-6.33		6.35-7.35		7.79-8.79		9.27-10.27		12.35-13.35		14.02-15.02	

Data File	Sample#													
7M129513.D	SMB108928	65801	2.65	117785	5.83	460006	6.84	249385	8.27	374594	9.76	222080	12.83	161265	14.50
7M129514.D	AD38633-004	56165	2.64	98060	5.83	363130	6.84	176444	8.27	258069	9.76	196996	12.83	199148	14.51
7M129515.D	AD38586-001	46840	2.63	83726	5.83	315944	6.84	165850	8.28	259655	9.76	196161	12.85	194464	14.51
7M129516.D	AD38586-007(MS:AD	47843	2.62	83703	5.83	320192	6.84	171700	8.28	276265	9.76	200273	12.85	196834	14.53
7M129517.D	AD38633-009	50486	2.63	93772	5.83	358644	6.84	184432	8.28	277770	9.76	206489	12.84	199520	14.51
7M129518.D	AD38633-034	47917	2.63	87934	5.83	346804	6.84	184959	8.27	283013	9.76	200394	12.84	190360	14.51
7M129519.D	AD38633-069	46669	2.63	86667	5.83	338595	6.84	183372	8.27	282640	9.76	191950	12.84	187789	14.50
7M129520.D	AD38633-079	49379	2.62	91619	5.83	358042	6.84	198282	8.29	308547	9.76	207520	12.84	194322	14.52
7M129521.D	AD38590-025	55137	2.63	89203	5.83	328469	6.84	168390	8.27	257395	9.76	192080	12.84	178973	14.50
7M129522.D	AD38590-029	55918	2.63	92688	5.83	339930	6.84	171885	8.28	258574	9.76	201161	12.85	192506	14.53
7M129523.D	AD38590-039	50242	2.63	79664	5.83	296264	6.84	152914	8.29	231825	9.76	174250	12.84	155412	14.52
7M129524.D	AD38590-043	51914	2.63	85624	5.83	320078	6.84	169511	8.28	257832	9.76	188387	12.84	165441	14.52
7M129525.D	AD38590-035(3X)	48240	2.62	86182	5.83	334239	6.84	180478	8.28	271232	9.76	183334	12.84	161213	14.51
7M129526.D	AD38590-031(3X)	34446	2.62	61657	5.83	239382	6.84	129894	8.28	193607A	9.76	128494A	12.83	106245A	14.50
7M129527.D	AD38590-025(MS)	53618	2.63	85579	5.83	320821	6.84	175932	8.28	279684	9.76	199302	12.85	171957	14.51
7M129528.D	AD38590-031(3X)	34575	2.62	62168	5.83	242529	6.84	135007	8.28	200970	9.76	128704A	12.84	107065A	14.51
7M129529.D	AD38590-025(MSD)	35248	2.62	57261	5.83	219733	6.85	121449	8.29	187982A	9.76	125797A	12.84	103432A	14.51
7M129530.D	SMB108906	63435	2.63	75130	5.83	289925	6.84	159256	8.28	252360	9.76	168453	12.84	142181	14.53
7M129531.D	AD38582-001	52345	2.63	91376	5.83	354724	6.84	194141	8.28	291703	9.76	206949	12.84	174776	14.51
7M129532.D	AD38582-002(3X)	63073	2.62	111349	5.83	437861	6.85	240072	8.29	355528	9.77	244163	12.85	206836	14.53
7M129533.D	AD38590-025(MSD)	42576	2.62	70938	5.83	271454	6.84	149939	8.27	232617	9.76	157085	12.84	128716A	14.49
7M129534.D	AD38582-003	44399	2.62	76434	5.83	303845	6.84	163605	8.27	245451	9.76	171374	12.83	140295	14.49
7M129535.D	AD38582-004	63378	2.63	110321	5.83	427803	6.84	232419	8.27	356796	9.76	255245	12.83	206300	14.49
7M129536.D	AD38584-036	66672	2.63	111864	5.83	437356	6.84	239329	8.27	365599	9.76	258676	12.83	210835	14.49
7M129537.D	AD38584-040	72888	2.63	119915	5.83	467469	6.84	253657	8.27	385714	9.76	272549	12.84	218243	14.50
7M129538.D	AD38590-001	70392	2.63	117786	5.83	459704	6.84	248695	8.27	371239	9.76	269555	12.84	214486	14.50
7M129539.D	AD38590-003	58054	2.63	96993	5.83	380370	6.84	203112	8.27	307751	9.76	218469	12.84	173201	14.50
7M129540.D	AD38590-005	58367	2.63	99996	5.83	388697	6.84	208717	8.27	310145	9.76	213888	12.84	173061	14.49
7M129541.D	AD38590-009	56641	2.62	100249	5.83	395353	6.84	215934	8.27	315700	9.76	214953	12.84	174430	14.50
7M129542.D	AD38590-011	63574	2.63	108073	5.83	421525	6.84	227781	8.27	345638	9.76	235454	12.84	180489	14.50

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

GC/MS Base Neutral/Acid Extractable Data
Sample Data

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38586-001
Client Id: HB-1 +QA\QC
Data File: 7M129515.D
Analysis Date: 06/26/23 09:34
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.040	U	**50-32-8**	**Benzo[a]pyrene**	**0.040**	**0.26**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.040	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.040**	**0.44**
123-91-1	1,4-Dioxane	0.011	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.040**	**0.18**
58-90-2	2,3,4,6-Tetrachlorophenol	0.040	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.040**	**0.13**
95-95-4	2,4,5-Trichlorophenol	0.040	U	111-91-1	bis(2-Chloroethoxy)methan	0.040	U
88-06-2	2,4,6-Trichlorophenol	0.040	U	111-44-4	bis(2-Chloroethyl)ether	0.013	U
120-83-2	2,4-Dichlorophenol	0.013	U	108-60-1	bis(2-chloroisopropyl)ether	0.040	U
105-67-9	2,4-Dimethylphenol	0.022	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.37	U
51-28-5	2,4-Dinitrophenol	0.20	U	85-68-7	Butylbenzylphthalate	0.040	U
121-14-2	2,4-Dinitrotoluene	0.040	U	105-60-2	Caprolactam	0.040	U
606-20-2	2,6-Dinitrotoluene	0.040	U	**86-74-8**	**Carbazole**	**0.040**	**0.041**
91-58-7	2-Chloronaphthalene	0.040	U	**218-01-9**	**Chrysene**	**0.040**	**0.56**
95-57-8	2-Chlorophenol	0.040	U	**53-70-3**	**Dibenzo[a,h]anthracene**	**0.040**	**0.061**
91-57-6	**2-Methylnaphthalene**	**0.040**	**0.050**	**132-64-9**	**Dibenzofuran**	**0.010**	**0.046**
95-48-7	2-Methylphenol	0.012	U	84-66-2	Diethylphthalate	0.71	U
88-74-4	2-Nitroaniline	0.040	U	131-11-3	Dimethylphthalate	0.040	U
88-75-5	2-Nitrophenol	0.040	U	84-74-2	Di-n-butylphthalate	0.96	U
106-44-5	3&4-Methylphenol	0.013	U	117-84-0	Di-n-octylphthalate	0.040	U
91-94-1	3,3'-Dichlorobenzidine	0.040	U	**206-44-0**	**Fluoranthene**	**0.040**	**0.55**
99-09-2	3-Nitroaniline	0.040	U	86-73-7	Fluorene	0.040	U
534-52-1	4,6-Dinitro-2-methylphenol	0.20	U	118-74-1	Hexachlorobenzene	0.040	U
101-55-3	4-Bromophenyl-phenylether	0.040	U	87-68-3	Hexachlorobutadiene	0.040	U
59-50-7	4-Chloro-3-methylphenol	0.040	U	77-47-4	Hexachlorocyclopentadiene	0.13	U
106-47-8	4-Chloroaniline	0.014	U	67-72-1	Hexachloroethane	0.040	U
7005-72-3	4-Chlorophenyl-phenylether	0.040	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.040**	**0.15**
100-01-6	4-Nitroaniline	0.040	U	78-59-1	Isophorone	0.040	U
100-02-7	4-Nitrophenol	0.040	U	**91-20-3**	**Naphthalene**	**0.010**	**0.068**
83-32-9	Acenaphthene	0.040	U	98-95-3	Nitrobenzene	0.040	U
208-96-8	**Acenaphthylene**	**0.040**	**0.047**	621-64-7	N-Nitroso-di-n-propylamine	0.010	U
98-86-2	Acetophenone	0.040	U	86-30-6	n-Nitrosodiphenylamine	0.040	U
120-12-7	**Anthracene**	**0.040**	**0.069**	87-86-5	Pentachlorophenol	0.20	U
1912-24-9	Atrazine	0.040	U	**85-01-8**	**Phenanthrene**	**0.040**	**0.49**
100-52-7	Benzaldehyde	0.040	U	108-95-2	Phenol	0.040	U
56-55-3	**Benzo[a]anthracene**	**0.040**	**0.26**	**129-00-0**	**Pyrene**	**0.040**	**0.47**

Worksheet #: 696343 *Total Target Concentration* 3.9 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

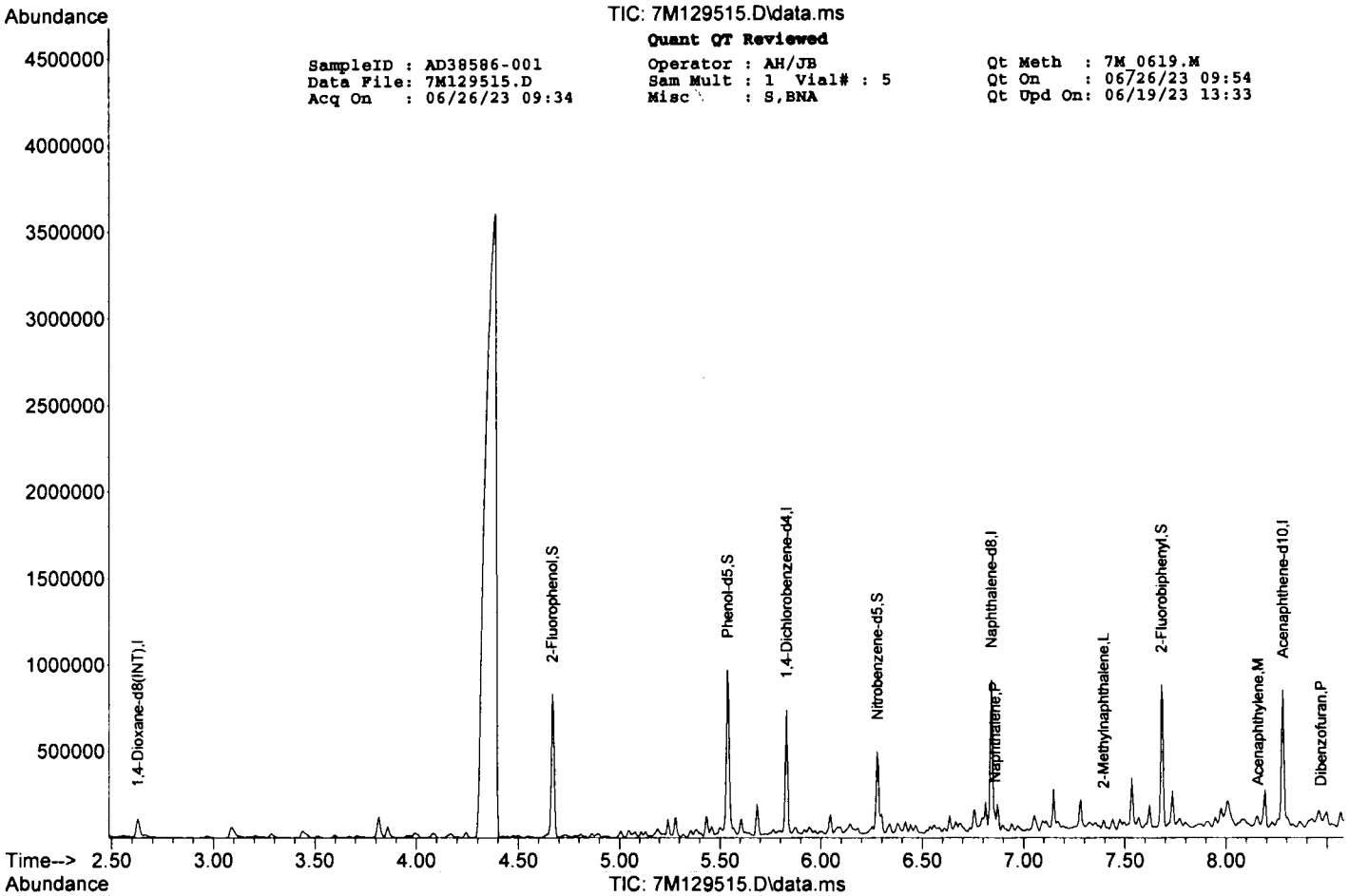
Quantitation Report (QT Reviewed)

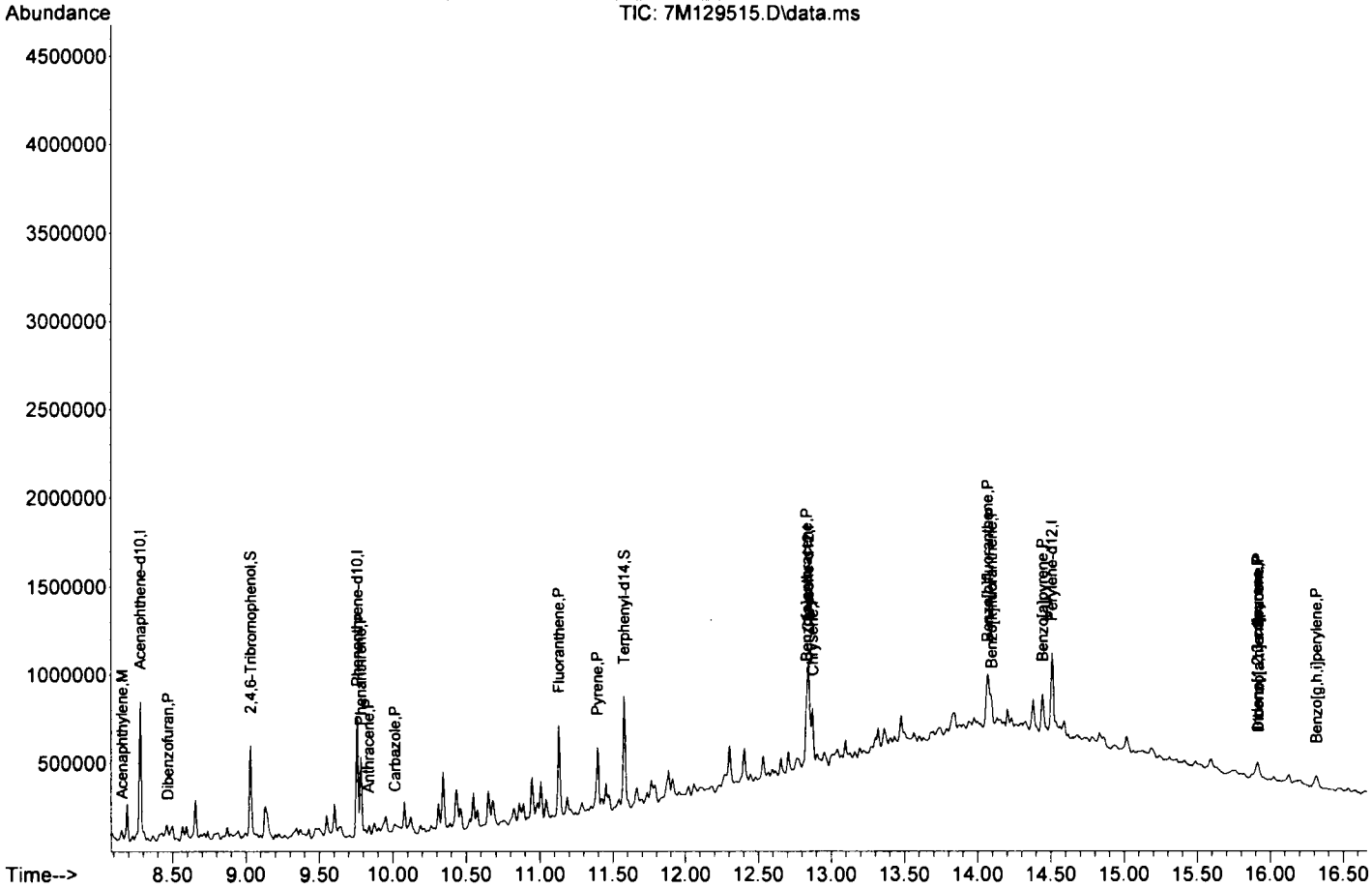
SampleID : AD38586-001 Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129515.D Sam Mult : 1 Vial# : 5 Qt On : 06/26/23 09:54
Acq On : 06/26/23 09:34 Misc : S,BNA Qt Upd On: 06/19/23 13:33

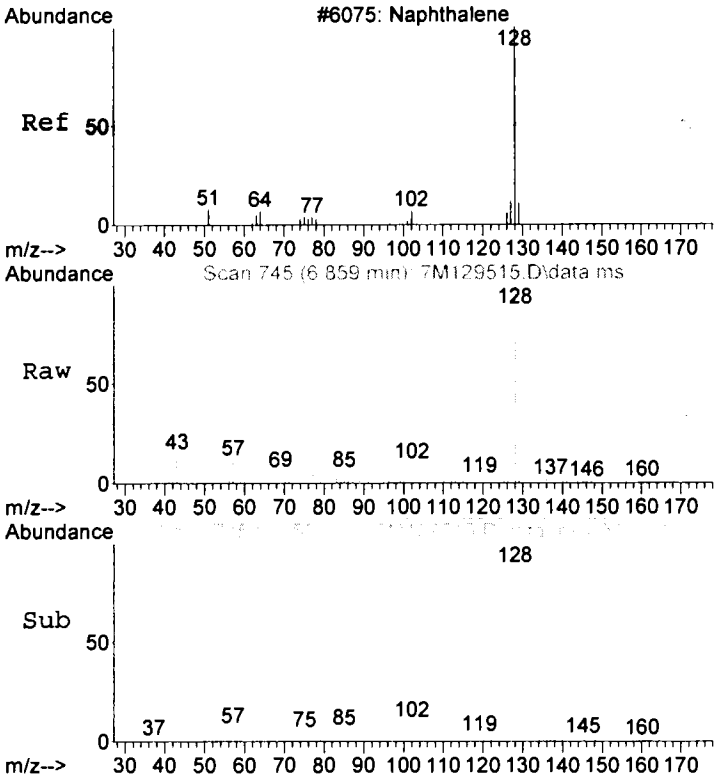
Data Path : G:\GcMsData\2023\GCMS_7\Data\06-26-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.628	96	46840	40.00	ng	0.01
21) 1,4-Dichlorobenzene-d4	5.830	152	83726	40.00	ng	0.00
31) Naphthalene-d8	6.841	136	315944	40.00	ng	0.00
50) Acenaphthene-d10	8.281	164	165850	40.00	ng	0.00
77) Phenanthrene-d10	9.761	188	259655	40.00	ng	0.01
91) Chrysene-d12	12.846	240	196161	40.00	ng	0.02
103) Perylene-d12	14.509	264	194464	40.00	ng	0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.667	112	225341	79.58	ng	0.02
Spiked Amount 100.000			Recovery = 79.58%			
16) Phenol-d5	5.537	99	287191	85.86	ng	0.02
Spiked Amount 100.000			Recovery = 85.86%			
32) Nitrobenzene-d5	6.277	128	62281	42.66	ng	0.00
Spiked Amount 50.000			Recovery = 85.32%			
55) 2-Fluorobiphenyl	7.681	172	234950	43.43	ng	0.00
Spiked Amount 50.000			Recovery = 86.86%			
80) 2,4,6-Tribromophenol	9.033	330	43665	75.12	ng	0.01
Spiked Amount 100.000			Recovery = 75.12%			
94) Terphenyl-d14	11.577	244	181283	42.57	ng	0.02
Spiked Amount 50.000			Recovery = 85.14%			
Target Compounds						Qvalue
41) Naphthalene	6.859	128	28542m	3.3781	ng	
46) 2-Methylnaphthalene	7.393	142	13712m	2.5017	ng	
62) Acenaphthylene	8.157	152	15241m	2.3292	ng	
68) Dibenzofuran	8.469	168	15342m	2.2958	ng	
86) Phenanthrene	9.785	178	168921m	24.4666	ng	
87) Anthracene	9.838	178	24111m	3.4299	ng	
88) Carbazole	10.014	167	13902m	2.0178	ng	
90) Fluoranthene	11.130	202	208839m	27.5135	ng	
92) Pyrene	11.395	202	172876m	23.6448	ng	
100) Benzo[a]anthracene	12.834	228	85102m	13.1811	ng	
101) Chrysene	12.875	228	157512m	27.8395	ng	
105) Benzo[b]fluoranthene	14.068	252	136134m	21.8134	ng	
106) Benzo[k]fluoranthene	14.097	252	37701m	6.5641	ng	
107) Benzo[a]pyrene	14.444	252	68935m	12.8176	ng	
108) Indeno[1,2,3-cd]pyrene	15.913	276	48158m	7.7175	ng	
109) Dibenzo[a,h]anthracene	15.919	278	15847m	3.0570	ng	
110) Benzo[g,h,i]perylene	16.318	276	45557m	8.8557	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 7M129515.D\data.ms
Quant QT Reviewed
SampleID : AD38586-001
Data File: 7M129515.D
Acq On : 06/26/23 09:34
Operator : AH/JB
Sam Mult : 1 Vial# : 5
Misc : S,BNA
Qt Meth : 7M_0619.M
Qt On : 06/26/23 09:54
Qt Upd On: 06/19/23 13:33
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
Naphthalene,P
2-Methylnaphthalene,L
2-Fluorobiphenyl,S
Acenaphthylene,M
Acenaphthene-d10,I
Dibenzofuran,P
Time-->

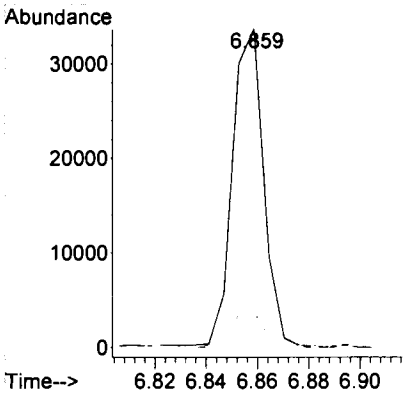

Abundance
TIC: 7M129515.D\data.ms
Acenaphthylene,M
Acenaphthene-d10,I
Dibenzofuran,P
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Anthracene,P
Carbazole,P
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Benzo(a)pyrene,P
Perylene-d12,I
Benzo(g,h,i)perylene,P
Time-->

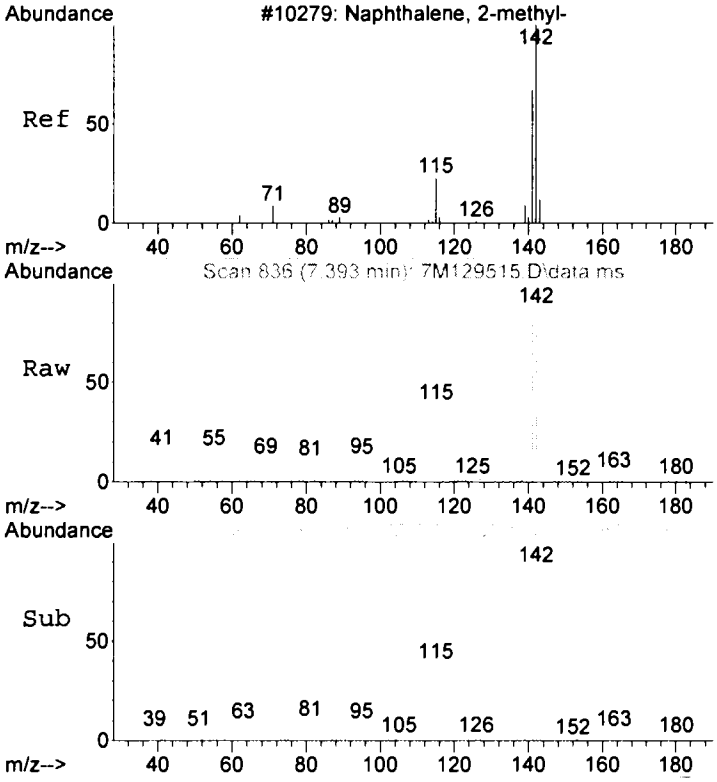


#41
Naphthalene
Concen: 3.38 ng m
RT: 6.859 min Scan# 745
Delta R.T. 0.006 min
Lab File: 7M129515.D
Acq: 26 Jun 2023 9:34

Tgt Ion:128 Resp: 28542

Ion	Ratio	Lower	Upper
128	100		
129	11.1	0.0	50.9
127	12.5	0.0	52.4

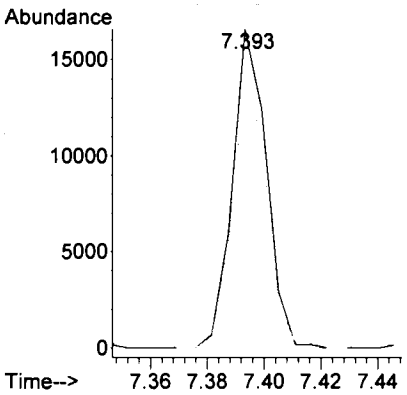


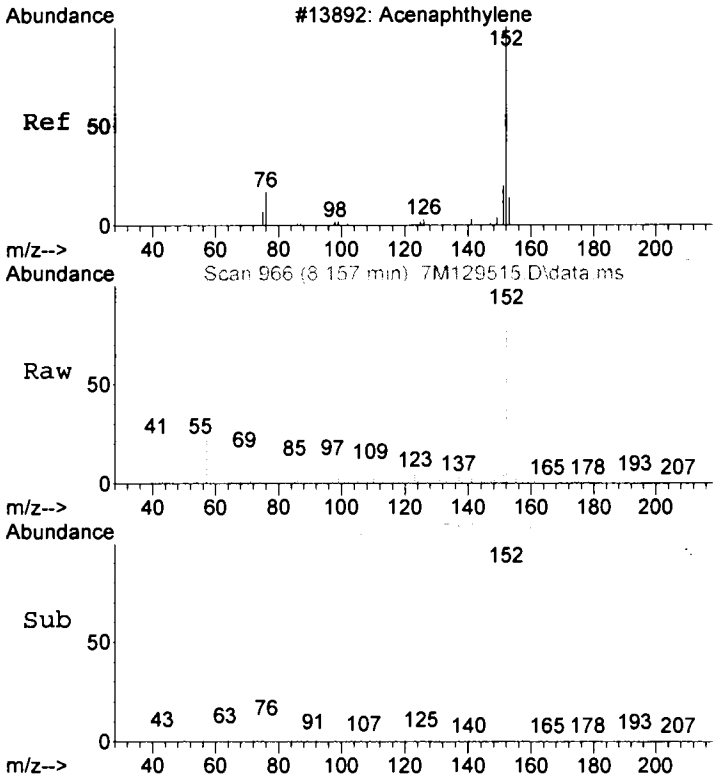


#46
2-Methylnaphthalene
Concen: 2.50 ng m
RT: 7.393 min Scan# 836
Delta R.T. -0.000 min
Lab File: 7M129515.D
Acq: 26 Jun 2023 9:34

Tgt Ion:142 Resp: 13712

Ion	Ratio	Lower	Upper
142	100		
141	85.0	44.6	124.6

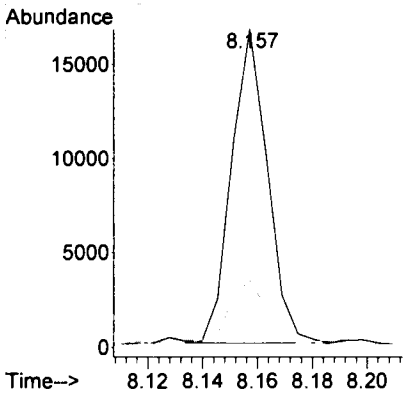


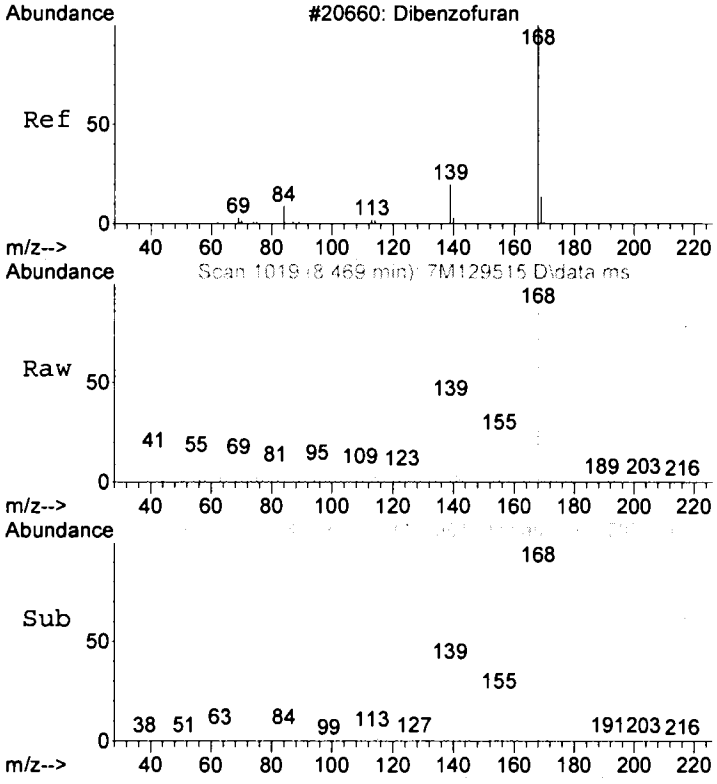


#62
Acenaphthylene
Concen: 2.33 ng m
RT: 8.157 min Scan# 966
Delta R.T. 0.006 min
Lab File: 7M129515.D
Acq: 26 Jun 2023 9:34

Tgt Ion:152 Resp: 15241

Ion	Ratio	Lower	Upper
152	100		
151	20.9	0.0	59.2
153	14.9	0.0	53.2

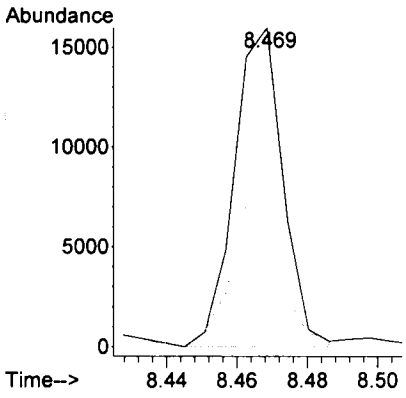


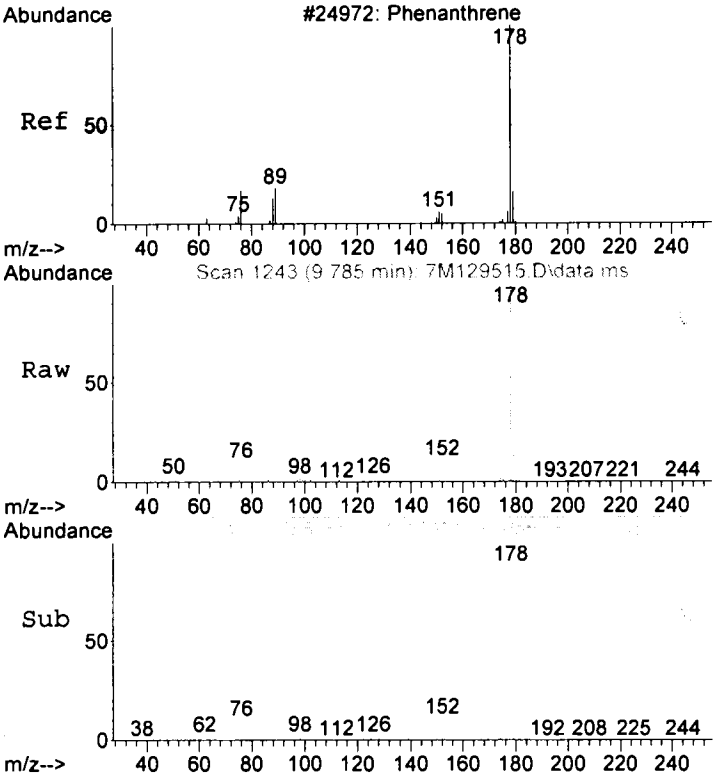


#68
Dibenzofuran
Concen: 2.30 ng m
RT: 8.469 min Scan# 1019
Delta R.T. 0.006 min
Lab File: 7M129515.D
Acq: 26 Jun 2023 9:34

Tgt Ion:168 Resp: 15342

Ion	Ratio	Lower	Upper
168	100		
139	40.7	0.0	246.0

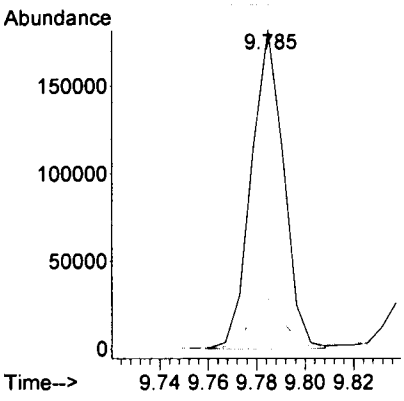


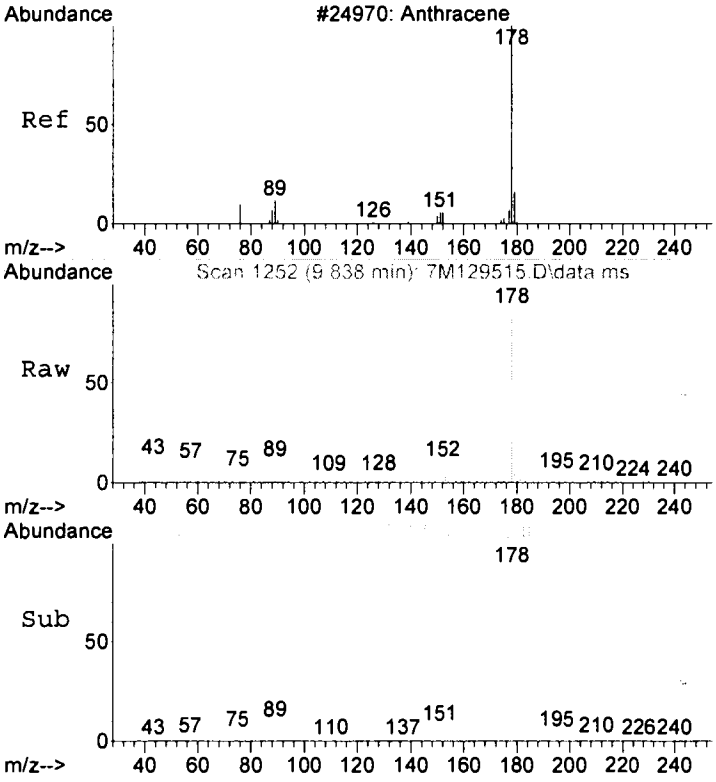


#86
Phenanthrene
Concen: 24.47 ng m
RT: 9.785 min Scan# 1243
Delta R.T. 0.012 min
Lab File: 7M129515.D
Acq: 26 Jun 2023 9:34

Tgt Ion:178 Resp: 168921

Ion	Ratio	Lower	Upper
178	100		
179	15.7	0.0	55.5
176	18.6	0.0	59.3

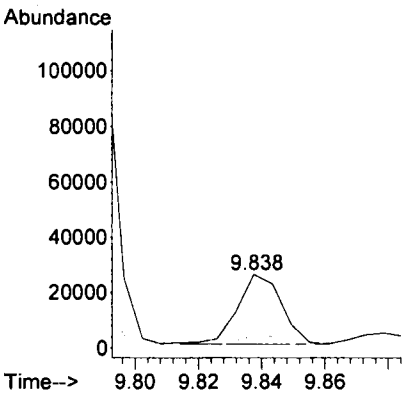


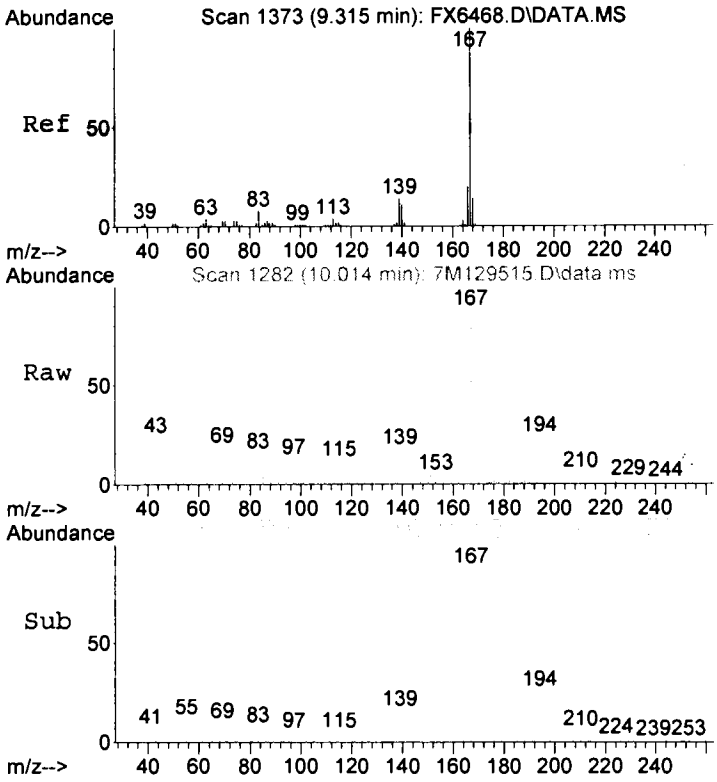


#87
Anthracene
Concen: 3.43 ng m
RT: 9.838 min Scan# 1252
Delta R.T. 0.006 min
Lab File: 7M129515.D
Acq: 26 Jun 2023 9:34

Tgt Ion:178 Resp: 24111

Ion	Ratio	Lower	Upper
178	100		
179	15.5	0.0	55.2
176	18.2	0.0	58.1

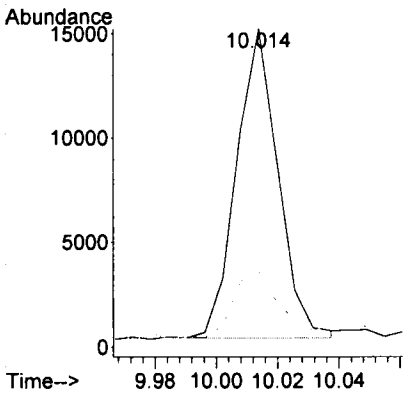


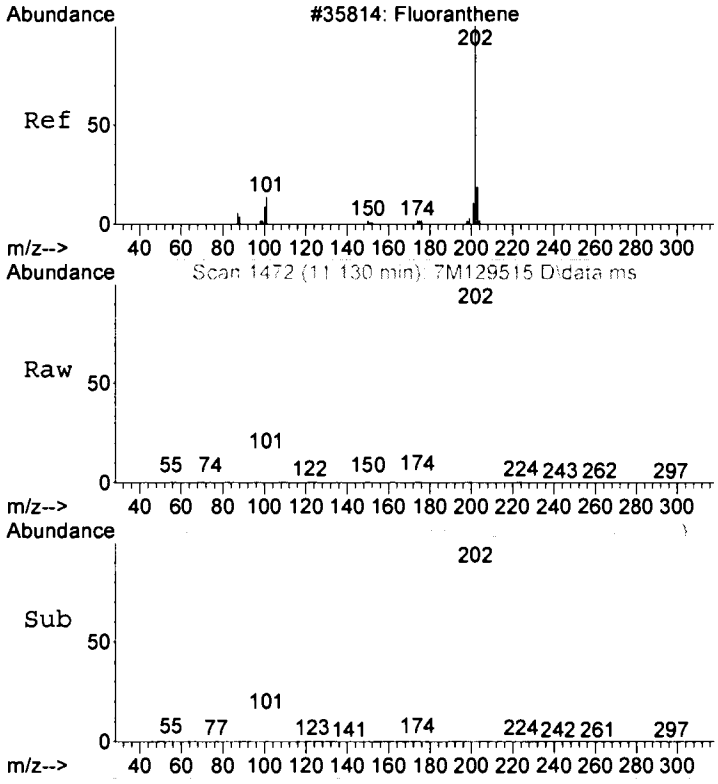


#88
Carbazole
Concen: 2.02 ng m
RT: 10.014 min Scan# 1282
Delta R.T. 0.012 min
Lab File: 7M129515.D
Acq: 26 Jun 2023 9:34

Tgt Ion:167 Resp: 13902

Ion	Ratio	Lower	Upper
167	100		
166	23.3	0.2	40.2
139	17.9	0.0	35.0

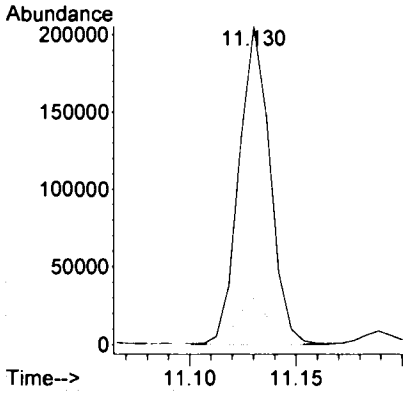


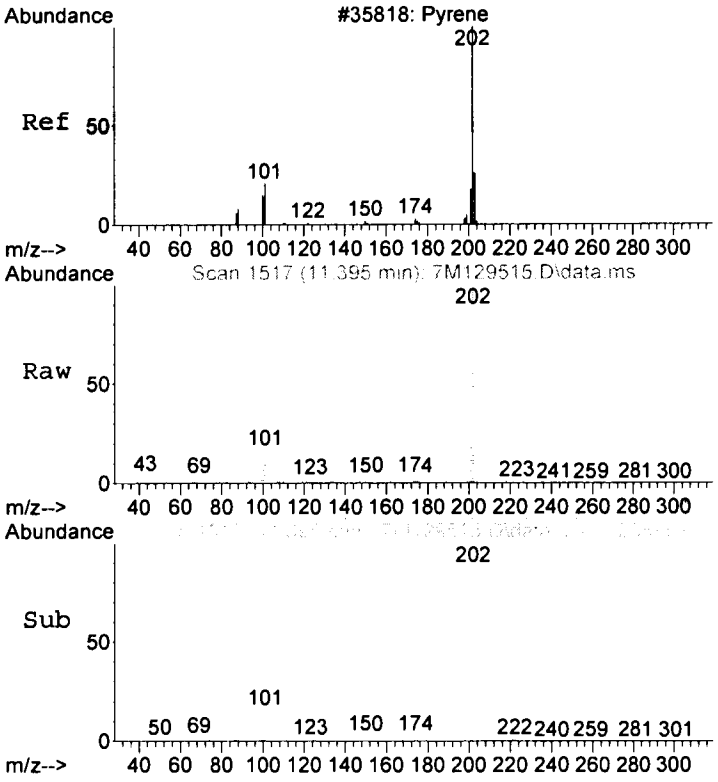


#90
Fluoranthene
Concen: 27.51 ng m
RT: 11.130 min Scan# 1472
Delta R.T. 0.018 min
Lab File: 7M129515.D
Acq: 26 Jun 2023 9:34

Tgt Ion:202 Resp: 208839

Ion	Ratio	Lower	Upper
202	100		
101	14.6	0.0	57.6

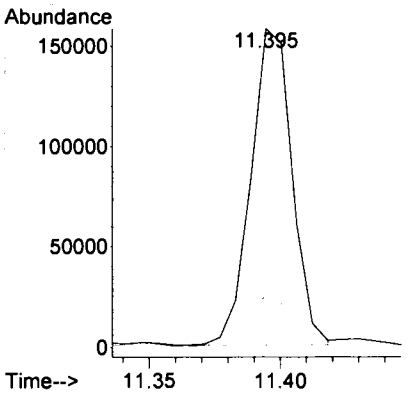


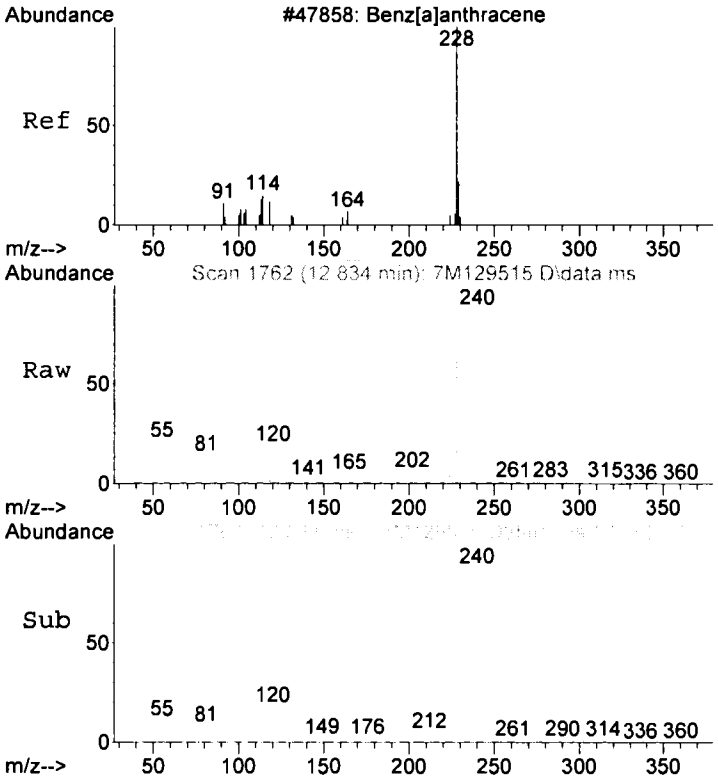


#92
Pyrene
Concen: 23.64 ng m
RT: 11.395 min Scan# 1517
Delta R.T. 0.018 min
Lab File: 7M129515.D
Acq: 26 Jun 2023 9:34

Tgt Ion:202 Resp: 172876

Ion	Ratio	Lower	Upper
202	100		
101	16.6	0.0	62.2
100	13.5	0.0	57.8

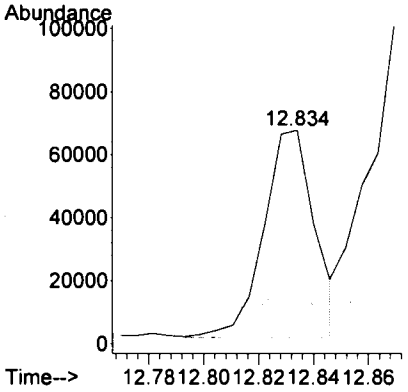


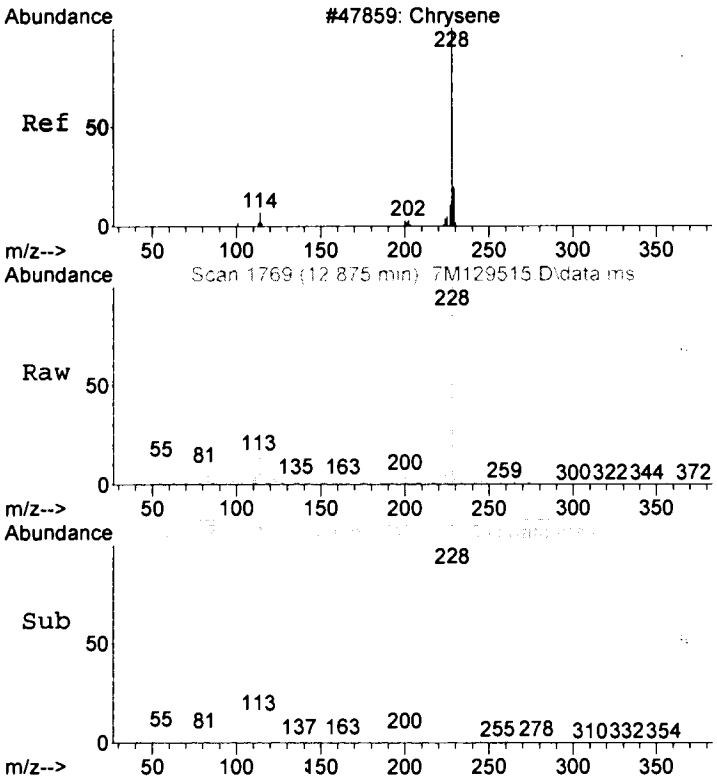


#100
Benzo[a]anthracene
Concen: 13.18 ng m
RT: 12.834 min Scan# 1762
Delta R.T. 0.023 min
Lab File: 7M129515.D
Acq: 26 Jun 2023 9:34

Tgt Ion:228 Resp: 85102

Ion	Ratio	Lower	Upper
228	100		
229	25.7	0.0	59.5
226	31.7	0.0	66.0

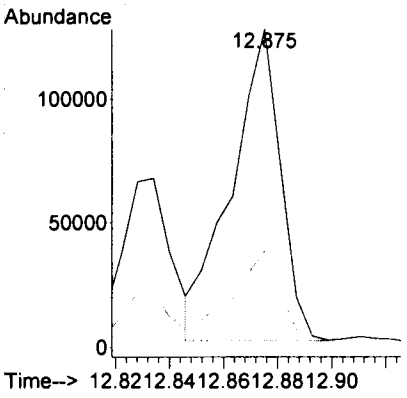


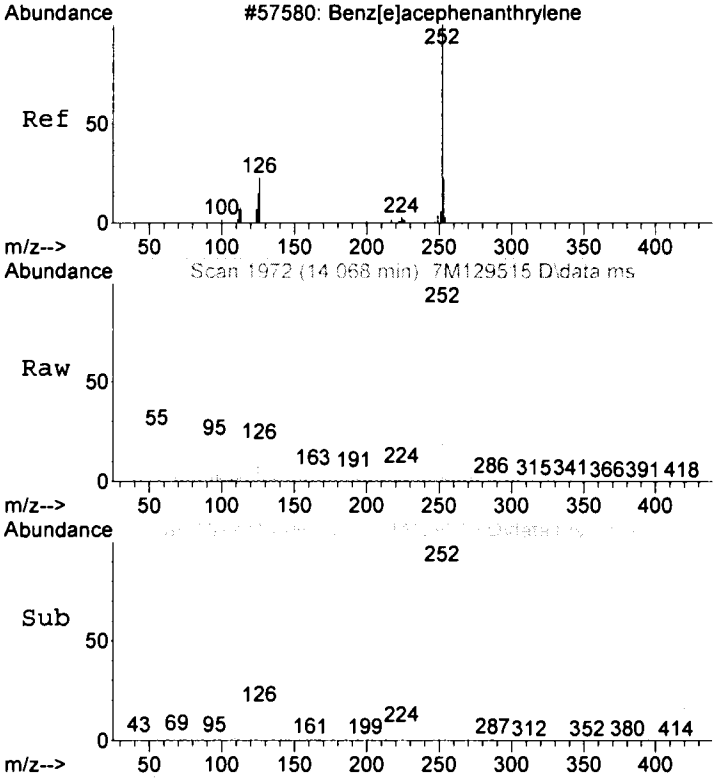


#101
Chrysene
Concen: 27.84 ng m
RT: 12.875 min Scan# 1769
Delta R.T. 0.023 min
Lab File: 7M129515.D
Acq: 26 Jun 2023 9:34

Tgt Ion:228 Resp: 157512

Ion	Ratio	Lower	Upper
228	100		
226	30.1	9.5	49.5
229	25.3	0.0	60.2

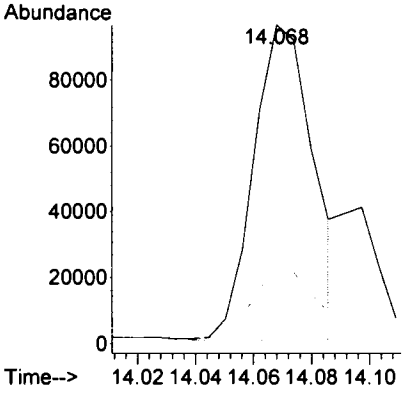


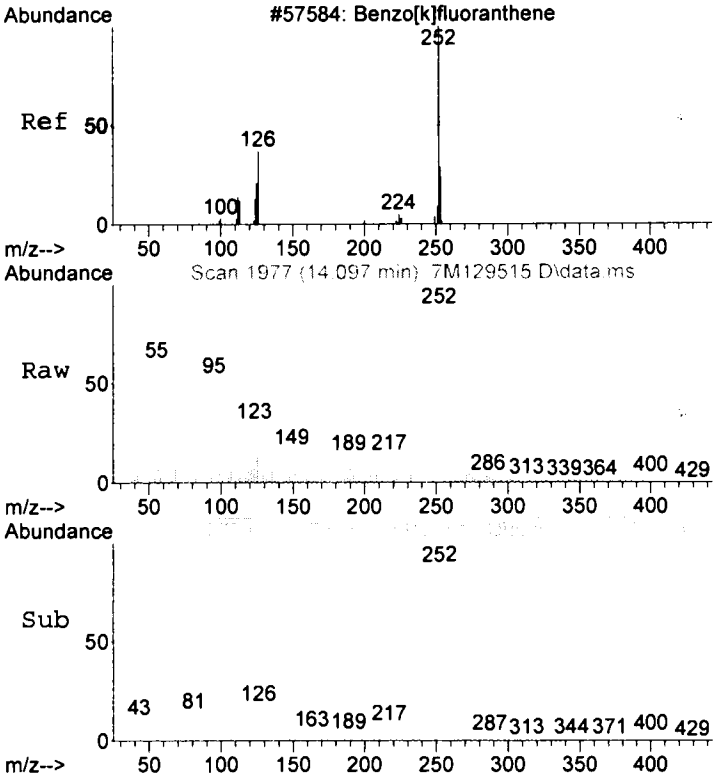


#105
Benzo[b]fluoranthene
Concen: 21.81 ng m
RT: 14.068 min Scan# 1972
Delta R.T. 0.012 min
Lab File: 7M129515.D
Acq: 26 Jun 2023 9:34

Tgt Ion:252 Resp: 136134

Ion	Ratio	Lower	Upper
252	100		
253	24.4	0.0	62.3
125	19.0	0.0	58.4

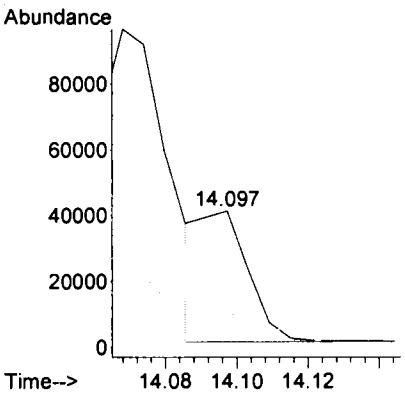


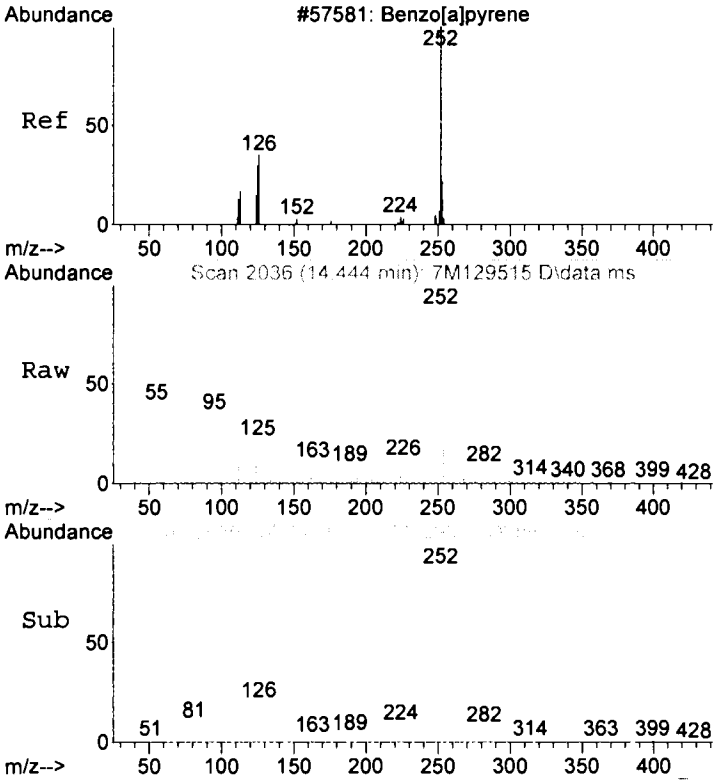


#106
Benzo[k]fluoranthene
Concen: 6.56 ng m
RT: 14.097 min Scan# 1977
Delta R.T. 0.012 min
Lab File: 7M129515.D
Acq: 26 Jun 2023 9:34

Tgt Ion:252 Resp: 37701

Ion	Ratio	Lower	Upper
252	100		
253	26.4	0.0	122.2
125	25.4	0.0	118.9

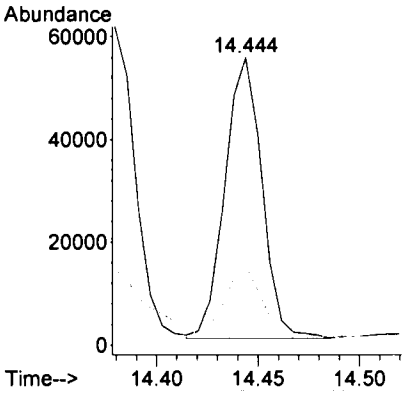


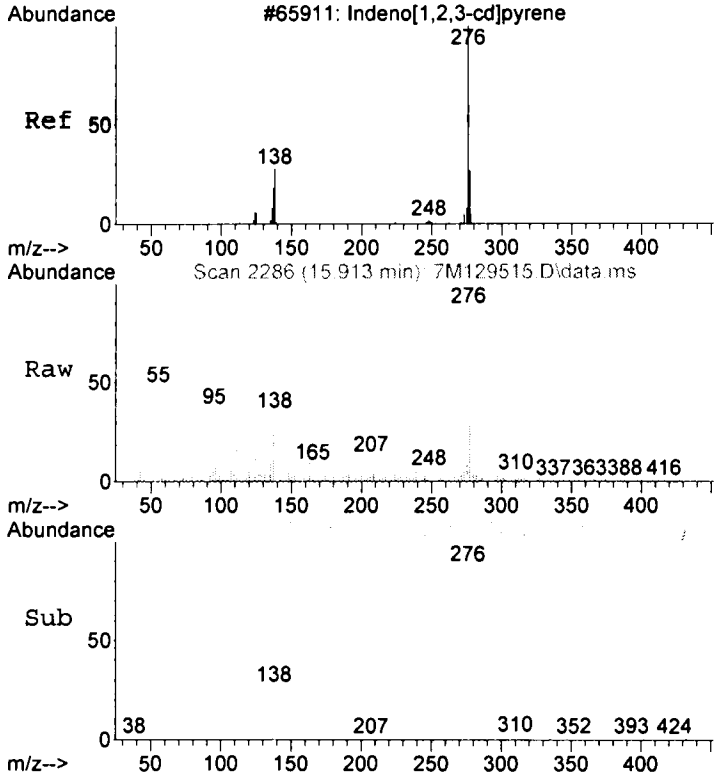


#107
Benzo[a]pyrene
Concen: 12.82 ng m
RT: 14.444 min Scan# 2036
Delta R.T. 0.018 min
Lab File: 7M129515.D
Acq: 26 Jun 2023 9:34

Tgt Ion:252 Resp: 68935

Ion	Ratio	Lower	Upper
252	100		
253	27.4	0.0	62.4
125	21.8	0.0	60.9

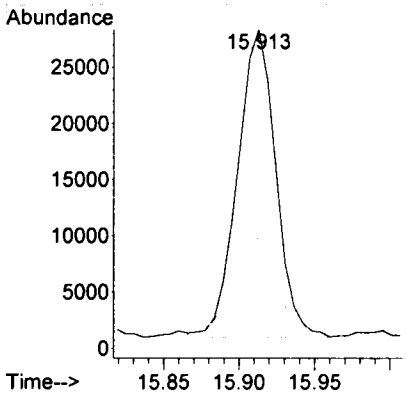


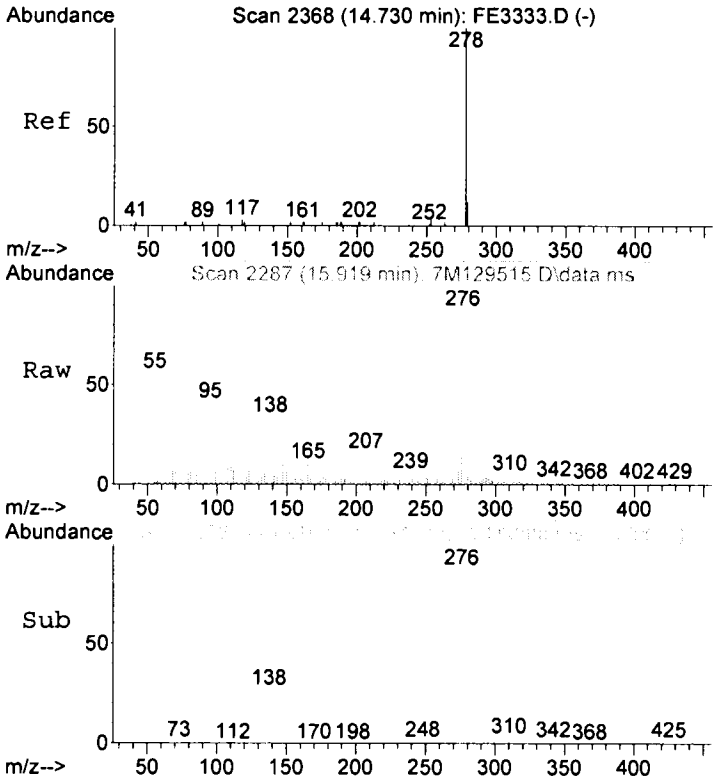


#108
Indeno[1,2,3-cd]pyrene
Concen: 7.72 ng m
RT: 15.913 min Scan# 2286
Delta R.T. 0.041 min
Lab File: 7M129515.D
Acq: 26 Jun 2023 9:34

Tgt Ion:276 Resp: 48158

Ion	Ratio	Lower	Upper
276	100		
138	34.6	0.0	78.9

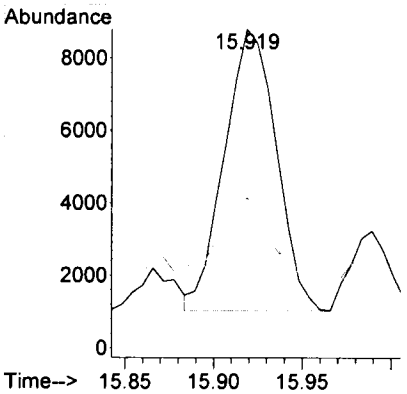


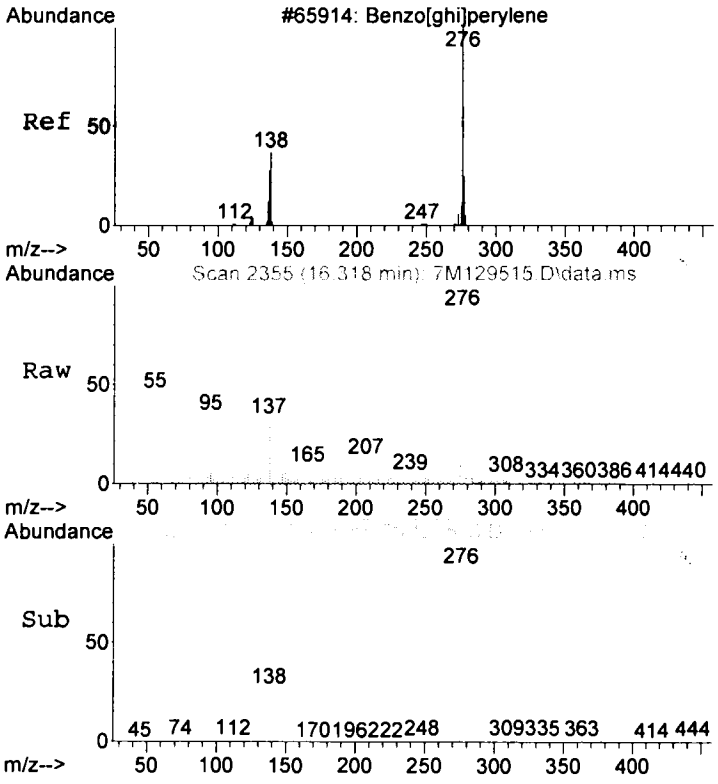


#109
Dibenzo[a,h]anthracene
Concen: 3.06 ng m
RT: 15.919 min Scan# 2287
Delta R.T. 0.018 min
Lab File: 7M129515.D
Acq: 26 Jun 2023 9:34

Tgt Ion:278 Resp: 15847

Ion	Ratio	Lower	Upper
278	100		
139	47.2	0.0	72.0
279	41.7	0.0	63.9

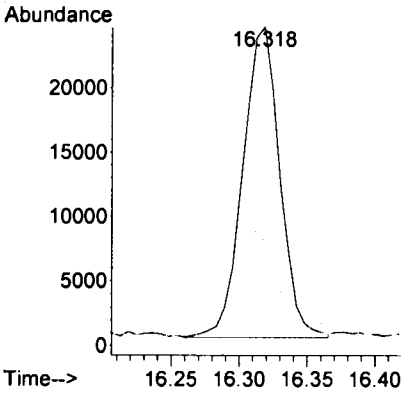




#110
Benzo[g,h,i]perylene
Concen: 8.86 ng m
RT: 16.318 min Scan# 2355
Delta R.T. 0.041 min
Lab File: 7M129515.D
Acq: 26 Jun 2023 9:34

Tgt Ion:276 Resp: 45557

Ion	Ratio	Lower	Upper
276	100		
138	29.7	0.0	60.0
277	23.6	6.0	34.0



Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38586-002
Client Id: DUP
Data File: 7M129502.D
Analysis Date: 06/24/23 02:49
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 73

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.046	U	**50-32-8**	**Benzo[a]pyrene**	**0.046**	**0.33**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.046	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.046**	**0.60**
123-91-1	1,4-Dioxane	0.013	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.046**	**0.19**
58-90-2	2,3,4,6-Tetrachlorophenol	0.046	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.046**	**0.15**
95-95-4	2,4,5-Trichlorophenol	0.046	U	111-91-1	bis(2-Chloroethoxy)methan	0.046	U
88-06-2	2,4,6-Trichlorophenol	0.046	U	111-44-4	bis(2-Chloroethyl)ether	0.015	U
120-83-2	2,4-Dichlorophenol	0.015	U	108-60-1	bis(2-chloroisopropyl)ether	0.046	U
105-67-9	2,4-Dimethylphenol	0.026	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.42	U
51-28-5	2,4-Dinitrophenol	0.23	U	85-68-7	Butylbenzylphthalate	0.046	U
121-14-2	2,4-Dinitrotoluene	0.046	U	105-60-2	Caprolactam	0.046	U
606-20-2	2,6-Dinitrotoluene	0.046	U	**86-74-8**	**Carbazole**	**0.046**	**0.047**
91-58-7	2-Chloronaphthalene	0.046	U	**218-01-9**	**Chrysene**	**0.046**	**0.65**
95-57-8	2-Chlorophenol	0.046	U	**53-70-3**	**Dibenzo[a,h]anthracene**	**0.046**	**0.068**
91-57-6	**2-Methylnaphthalene**	**0.046**	**0.066**	**132-64-9**	**Dibenzofuran**	**0.012**	**0.054**
95-48-7	2-Methylphenol	0.014	U	84-66-2	Diethylphthalate	0.81	U
88-74-4	2-Nitroaniline	0.046	U	131-11-3	Dimethylphthalate	0.046	U
88-75-5	2-Nitrophenol	0.046	U	84-74-2	Di-n-butylphthalate	1.1	U
106-44-5	3&4-Methylphenol	0.015	U	117-84-0	Di-n-octylphthalate	0.046	U
91-94-1	3,3'-Dichlorobenzidine	0.046	U	**206-44-0**	**Fluoranthene**	**0.046**	**0.67**
99-09-2	3-Nitroaniline	0.046	U	86-73-7	Fluorene	0.046	U
534-52-1	4,6-Dinitro-2-methylphenol	0.23	U	118-74-1	Hexachlorobenzene	0.046	U
101-55-3	4-Bromophenyl-phenylether	0.046	U	87-68-3	Hexachlorobutadiene	0.046	U
59-50-7	4-Chloro-3-methylphenol	0.046	U	77-47-4	Hexachlorocyclopentadiene	0.15	U
106-47-8	4-Chloroaniline	0.016	U	67-72-1	Hexachloroethane	0.046	U
7005-72-3	4-Chlorophenyl-phenylether	0.046	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.046**	**0.17**
100-01-6	4-Nitroaniline	0.046	U	78-59-1	Isophorone	0.046	U
100-02-7	4-Nitrophenol	0.046	U	**91-20-3**	**Naphthalene**	**0.011**	**0.073**
83-32-9	Acenaphthene	0.046	U	98-95-3	Nitrobenzene	0.046	U
208-96-8	**Acenaphthylene**	**0.046**	**0.064**	621-64-7	N-Nitroso-di-n-propylamine	0.012	U
98-86-2	Acetophenone	0.046	U	86-30-6	n-Nitrosodiphenylamine	0.046	U
120-12-7	**Anthracene**	**0.046**	**0.082**	87-86-5	Pentachlorophenol	0.23	U
1912-24-9	Atrazine	0.046	U	**85-01-8**	**Phenanthrene**	**0.046**	**0.55**
100-52-7	Benzaldehyde	0.046	U	108-95-2	Phenol	0.046	U
56-55-3	**Benzo[a]anthracene**	**0.046**	**0.31**	**129-00-0**	**Pyrene**	**0.046**	**0.58**

Worksheet #: 696343

Total Target Concentration 4.7

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

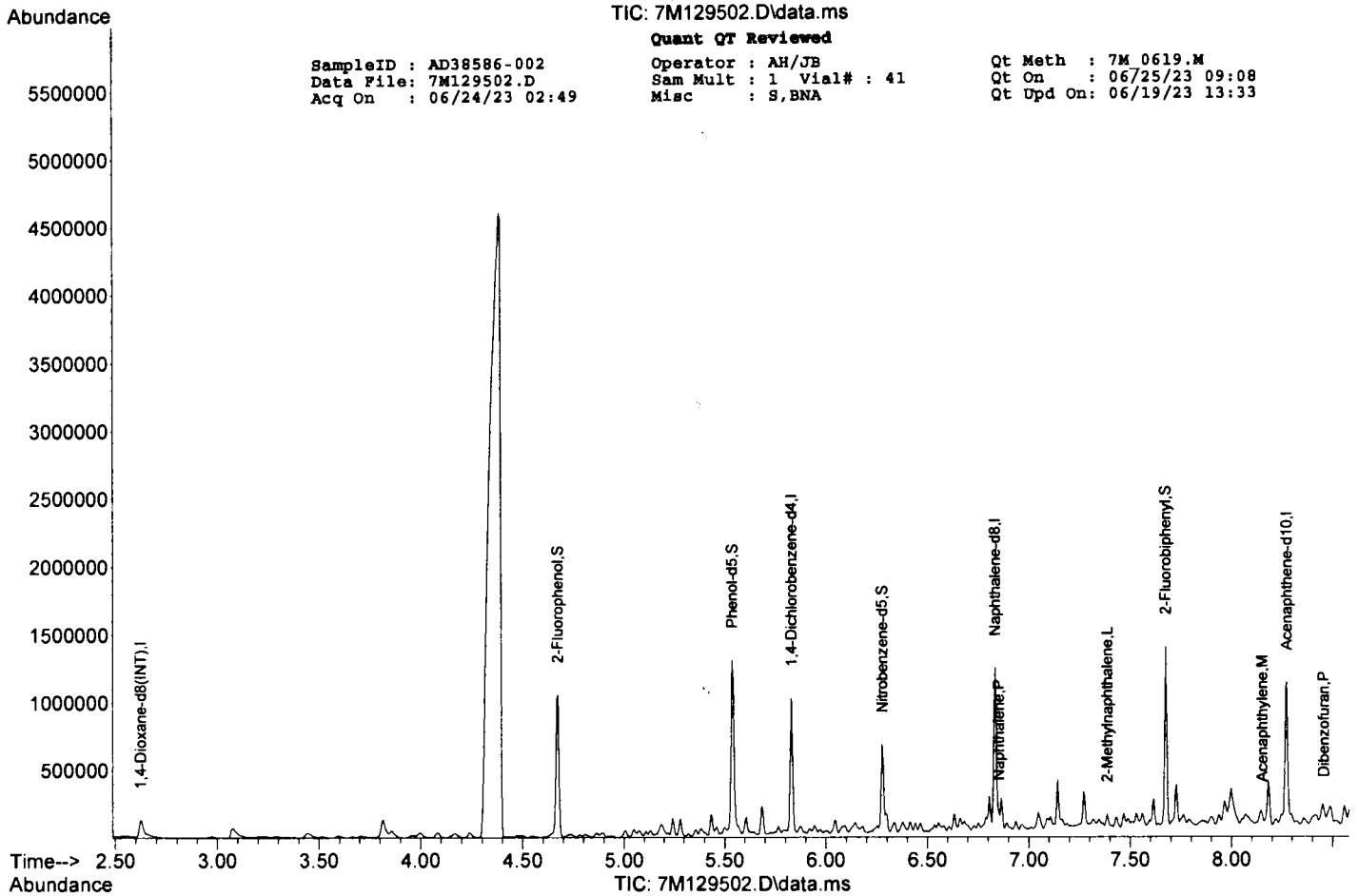
Quantitation Report (QT Reviewed)

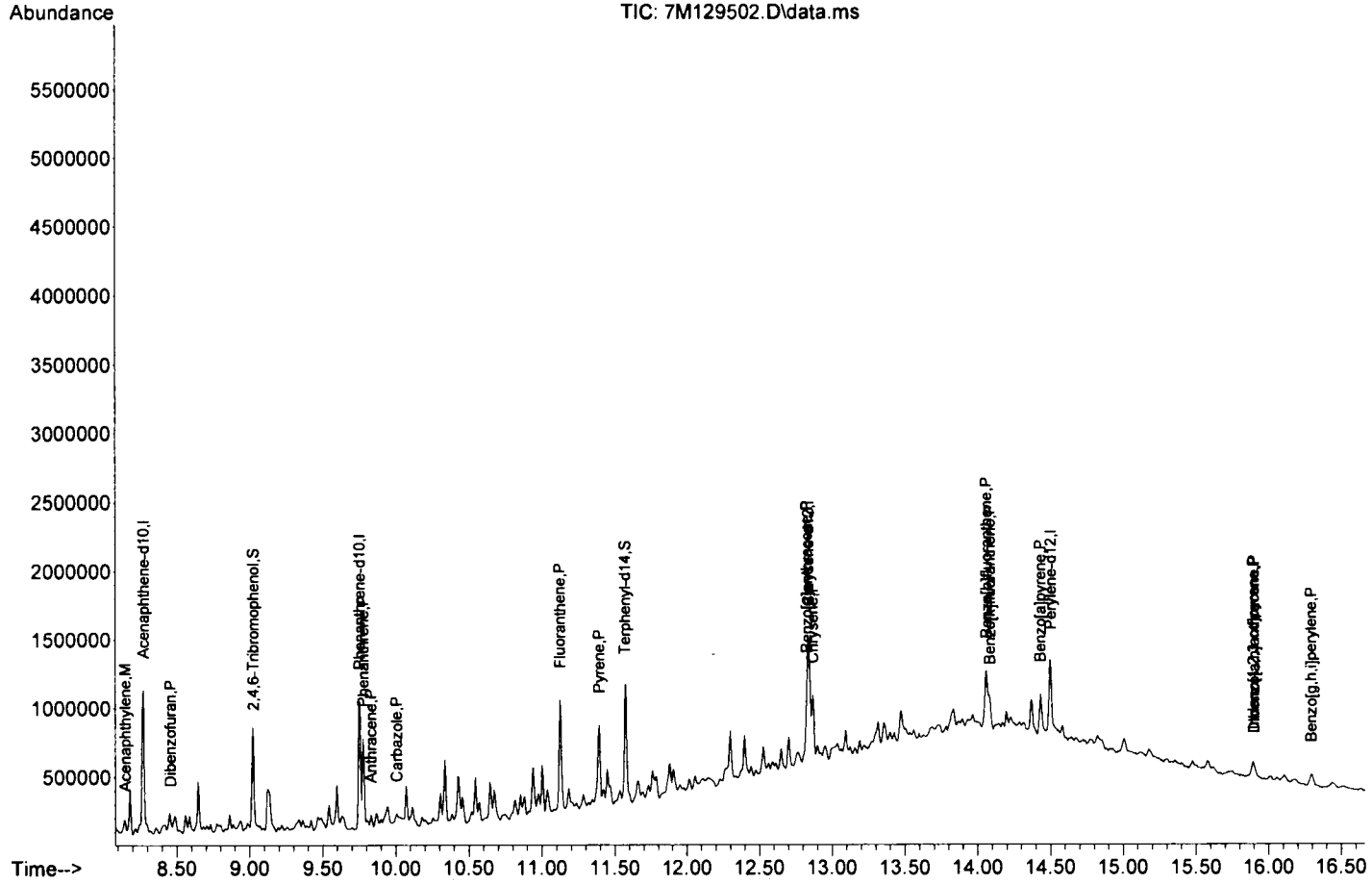
SampleID : AD38586-002 Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129502.D Sam Mult : 1 Vial# : 41 Qt On : 06/25/23 09:08
Acq On : 06/24/23 02:49 Misc : S,BNA Qt Upd On: 06/19/23 13:33

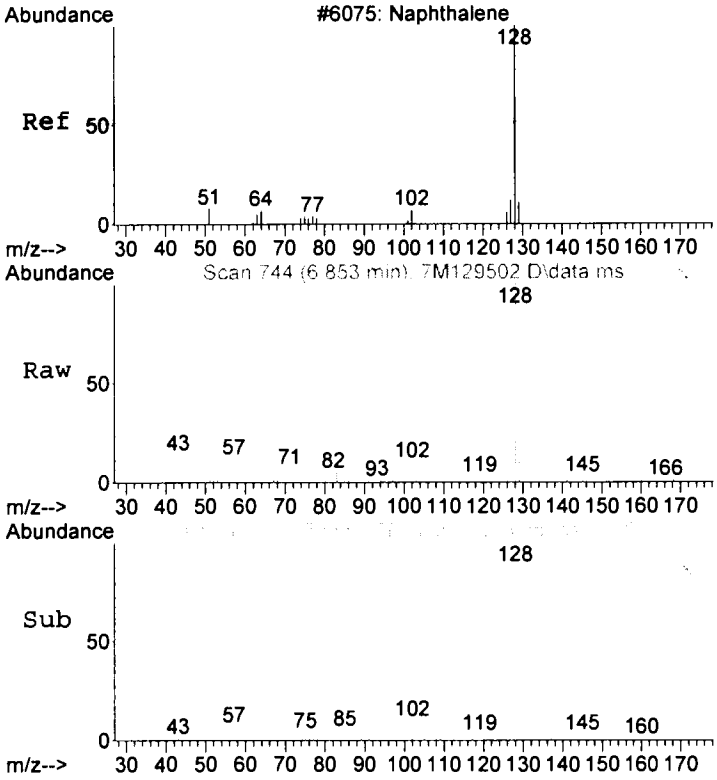
Data Path : G:\GcMsData\2023\GCMS_7\Data\06-2323
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.622	96	69446	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.830	152	121787	40.00	ng	0.00
31) Naphthalene-d8	6.835	136	460107	40.00	ng	0.00
50) Acenaphthene-d10	8.275	164	243831	40.00	ng	0.00
77) Phenanthrene-d10	9.755	188	391819	40.00	ng	0.00
91) Chrysene-d12	12.840	240	302451	40.00	ng	0.02
103) Perylene-d12	14.503	264	252734	40.00	ng	0.01
System Monitoring Compounds						
11) 2-Fluorophenol	4.673	112	311479	74.20	ng	0.03
Spiked Amount 100.000			Recovery = 74.20%			
16) Phenol-d5	5.537	99	401859	81.03	ng	0.02
Spiked Amount 100.000			Recovery = 81.03%			
32) Nitrobenzene-d5	6.277	128	84158	39.58	ng	0.00
Spiked Amount 50.000			Recovery = 79.16%			
55) 2-Fluorobiphenyl	7.675	172	348599	43.83	ng	0.00
Spiked Amount 50.000			Recovery = 87.66%			
80) 2,4,6-Tribromophenol	9.027	330	68074	77.61	ng	0.00
Spiked Amount 100.000			Recovery = 77.61%			
94) Terphenyl-d14	11.571	244	275562	41.97	ng	0.01
Spiked Amount 50.000			Recovery = 83.94%			
Target Compounds						Qvalue
41) Naphthalene	6.853	128	39417m	3.2035	ng	
46) 2-Methylnaphthalene	7.388	142	23122m	2.8967	ng	
62) Acenaphthylene	8.151	152	27165m	2.8238	ng	
68) Dibenzofuran	8.457	168	23180m	2.3593	ng	
86) Phenanthrene	9.779	178	252181m	24.2055	ng	
87) Anthracene	9.832	178	38303m	3.6108	ng	
88) Carbazole	10.008	167	21412m	2.0595	ng	
90) Fluoranthene	11.124	202	337034m	29.4252	ng	
92) Pyrene	11.395	202	285039m	25.2850	ng	
100) Benzo[a]anthracene	12.828	228	133056m	13.3661	ng	
101) Chrysene	12.869	228	249567m	28.6083	ng	
105) Benzo[b]fluoranthene	14.062	252	213082m	26.2711	ng	
106) Benzo[k]fluoranthene	14.086	252	47822m	6.4066	ng	
107) Benzo[a]pyrene	14.432	252	100064m	14.3160	ng	
108) Indeno[1,2,3-cd]pyrene	15.895	276	60844m	7.5024	ng	
109) Dibenzo[a,h]anthracene	15.901	278	19972m	2.9645	ng	
110) Benzo[g,h,i]perylene	16.295	276	55114m	8.2433	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 7M129502.D\data.ms
Quant QT Reviewed
SampleID : AD38586-002
Data File: 7M129502.D
Acq On : 06/24/23 02:49
Operator : AH/JB
Sam Mult : 1 Vial# : 41
Misc : S,BNA
Qt Meth : 7M_0619.M
Qt On : 06/25/23 09:08
Qt Upd On: 06/19/23 13:33
Abundance
Time-->
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
Naphthalene,P
2-Methylnaphthalene,L
2-Fluorobiphenyl,S
Acenaphthylene,M
Acenaphthene-d10,I
Dibenzofuran,P

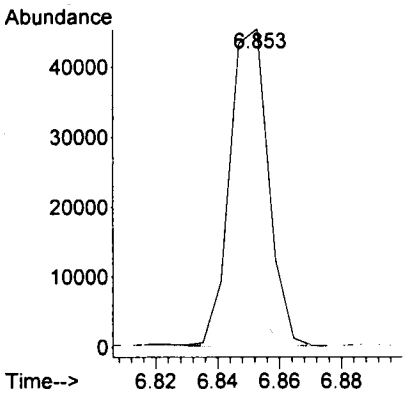

TIC: 7M129502.D\data.ms
Abundance
Time-->
Acenaphthylene,M
Acenaphthene-d10,I
Dibenzofuran,P
2,4,6-Tribromophenol,S
Anthracene-d10,I
Carbazole,P
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Benzo(a)pyrene,P
Perylene-d12,I
Benzo(g,h,i)perylene,P

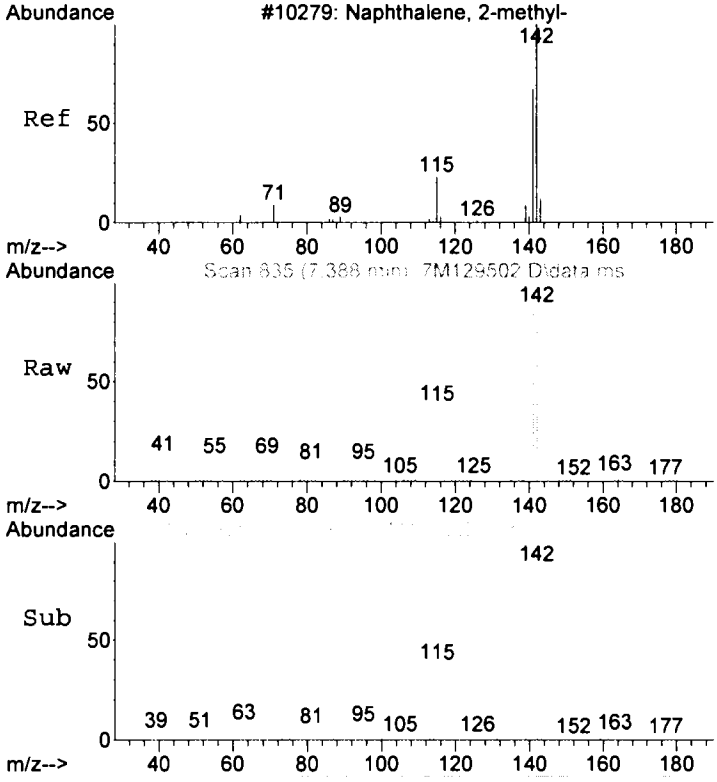


#41
Naphthalene
Concen: 3.20 ng m
RT: 6.853 min Scan# 744
Delta R.T. -0.000 min
Lab File: 7M129502.D
Acq: 24 Jun 2023 2:49

Tgt Ion:128 Resp: 39417

Ion	Ratio	Lower	Upper
128	100		
129	11.5	0.0	50.9
127	14.7	0.0	52.4

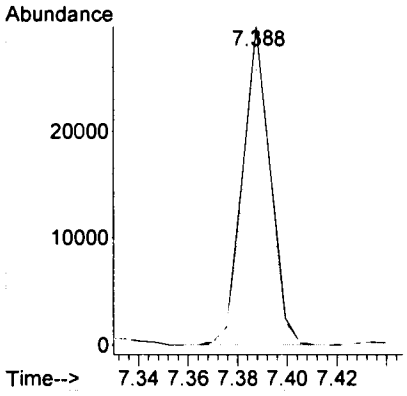


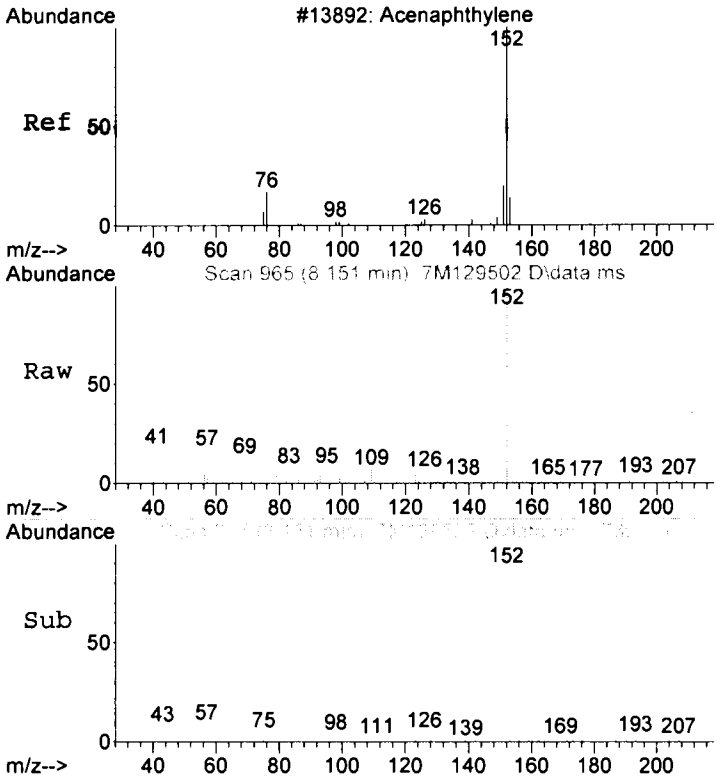


#46
2-Methylnaphthalene
Concen: 2.90 ng m
RT: 7.388 min Scan# 835
Delta R.T. -0.006 min
Lab File: 7M129502.D
Acq: 24 Jun 2023 2:49

Tgt Ion:142 Resp: 23122

Ion	Ratio	Lower	Upper
142	100		
141	87.1	44.6	124.6

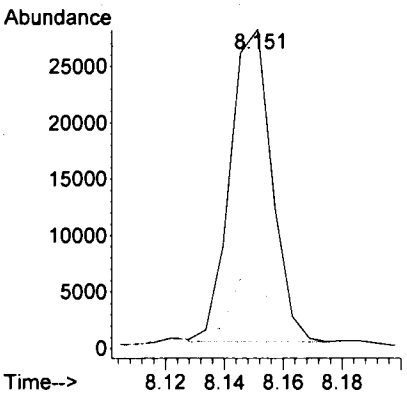


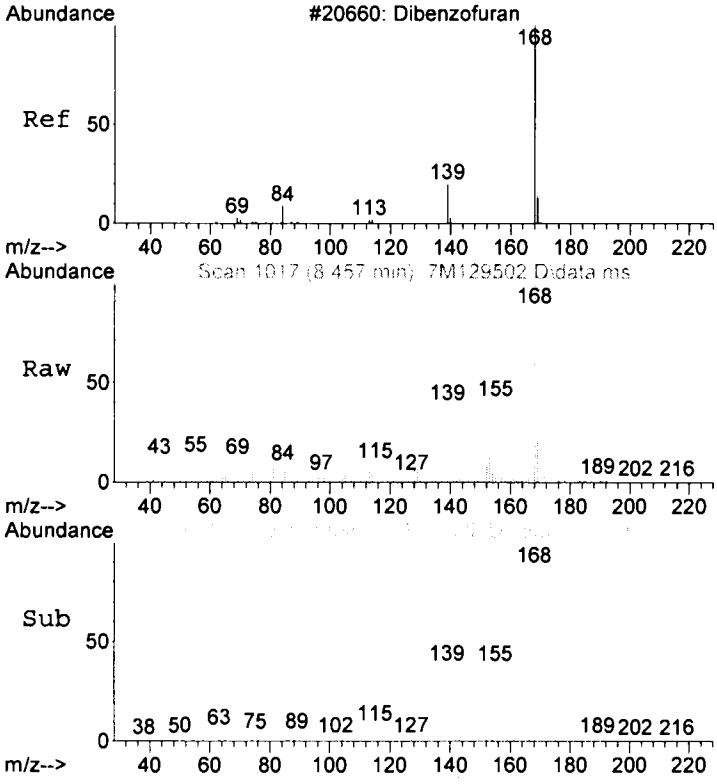


#62
Acenaphthylene
Concen: 2.82 ng m
RT: 8.151 min Scan# 965
Delta R.T. -0.000 min
Lab File: 7M129502.D
Acq: 24 Jun 2023 2:49

Tgt Ion:152 Resp: 27165

Ion	Ratio	Lower	Upper
152	100		
151	21.7	0.0	59.2
153	13.2	0.0	53.2

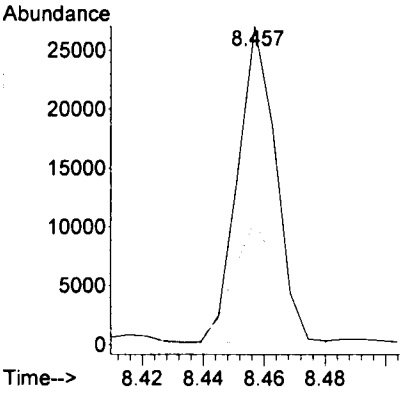


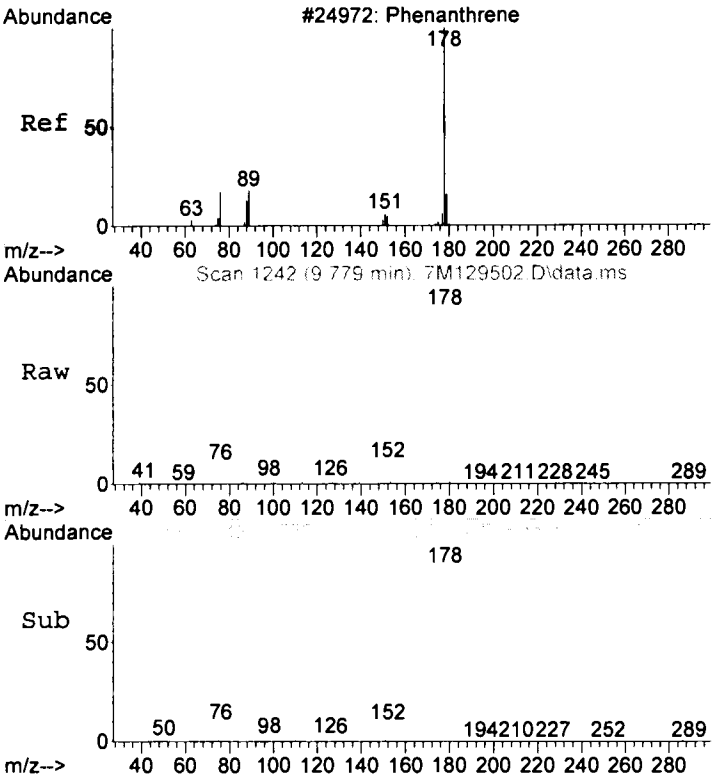


#68
Dibenzofuran
Concen: 2.36 ng m
RT: 8.457 min Scan# 1017
Delta R.T. -0.006 min
Lab File: 7M129502.D
Acq: 24 Jun 2023 2:49

Tgt Ion:168 Resp: 23180

Ion	Ratio	Lower	Upper
168	100		
139	38.7	0.0	246.0

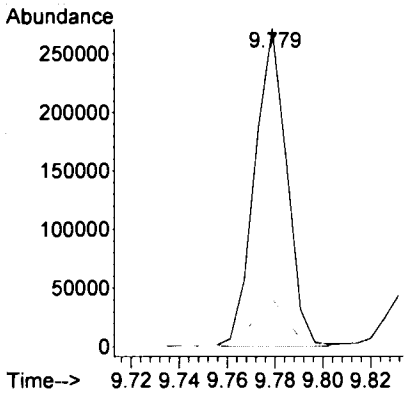


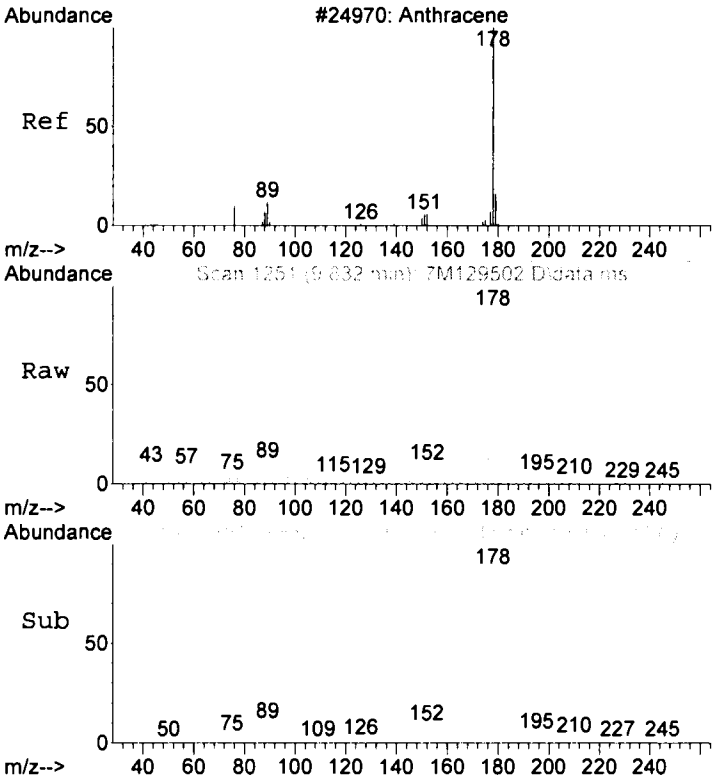


#86
Phenanthrene
Concen: 24.21 ng m
RT: 9.779 min Scan# 1242
Delta R.T. 0.006 min
Lab File: 7M129502.D
Acq: 24 Jun 2023 2:49

Tgt Ion:178 Resp: 252181

Ion	Ratio	Lower	Upper
178	100		
179	15.3	0.0	55.5
176	19.0	0.0	59.3

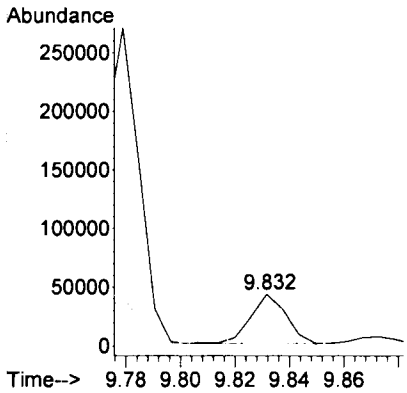


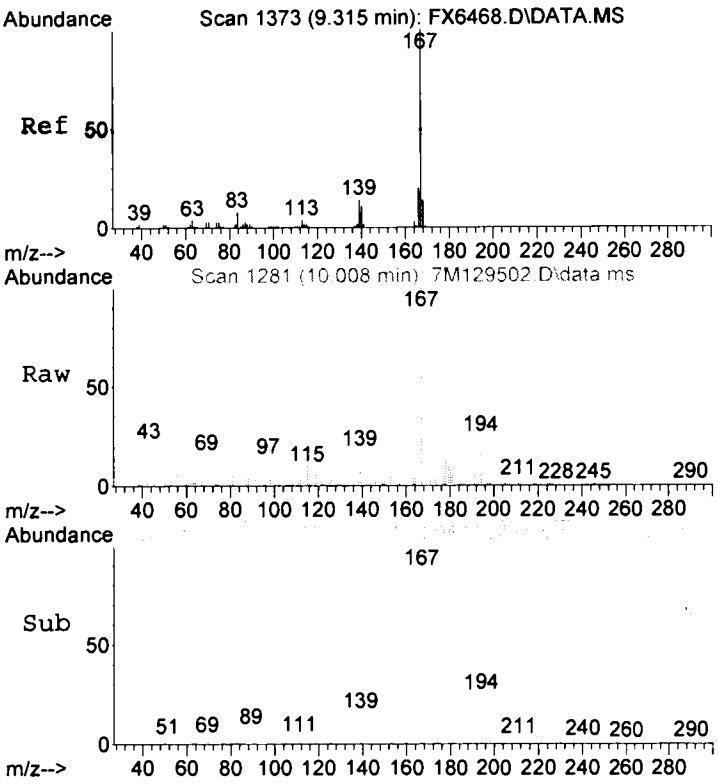


#87
Anthracene
Concen: 3.61 ng m
RT: 9.832 min Scan# 1251
Delta R.T. -0.000 min
Lab File: 7M129502.D
Acq: 24 Jun 2023 2:49

Tgt Ion:178 Resp: 38303

Ion	Ratio	Lower	Upper
178	100		
179	17.1	0.0	55.2
176	17.3	0.0	58.1

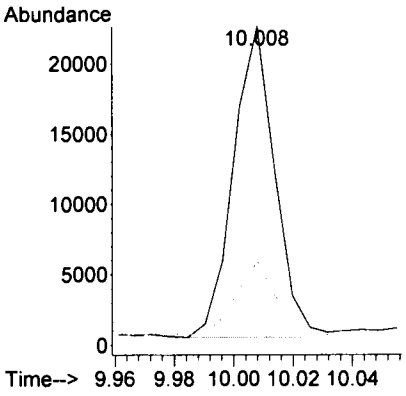


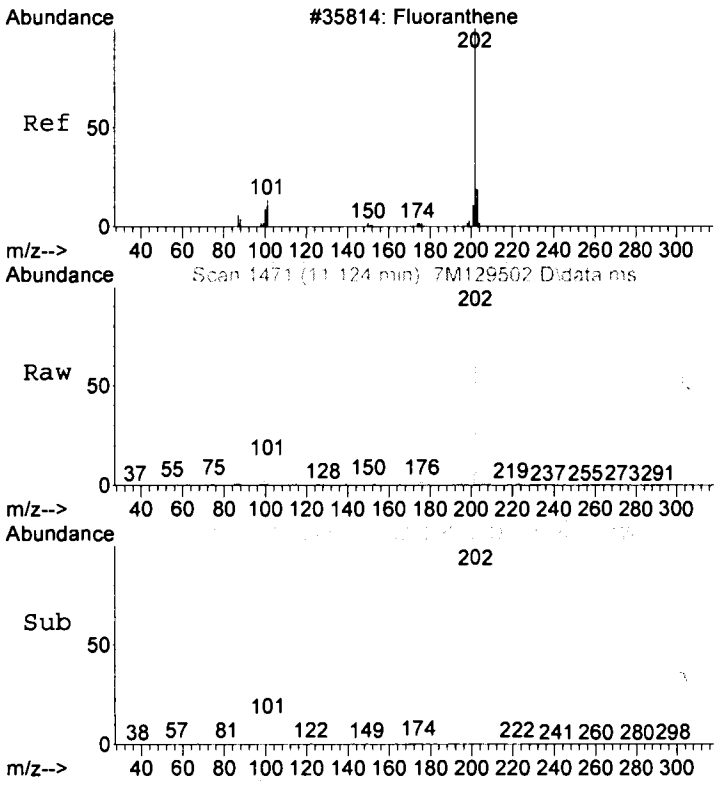


#88
Carbazole
Concen: 2.06 ng m
RT: 10.008 min Scan# 1281
Delta R.T. 0.006 min
Lab File: 7M129502.D
Acq: 24 Jun 2023 2:49

Tgt Ion:167 Resp: 21412

Ion	Ratio	Lower	Upper
167	100		
166	26.1	0.2	40.2
139	17.7	0.0	35.0

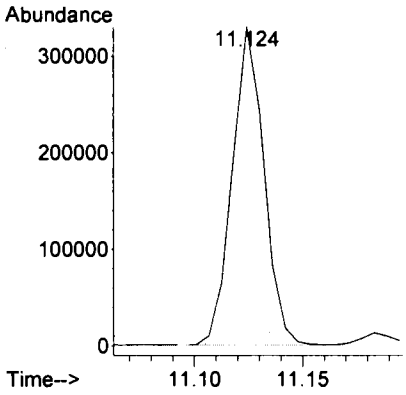


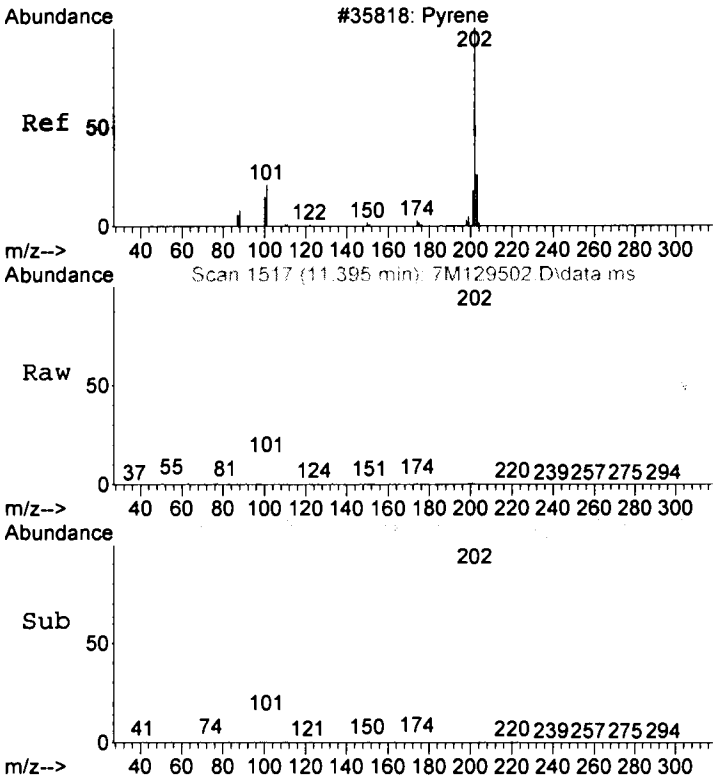


#90
Fluoranthene
Concen: 29.43 ng m
RT: 11.124 min Scan# 1471
Delta R.T. 0.012 min
Lab File: 7M129502.D
Acq: 24 Jun 2023 2:49

Tgt Ion:202 Resp: 337034

Ion	Ratio	Lower	Upper
202	100		
101	13.2	0.0	57.6

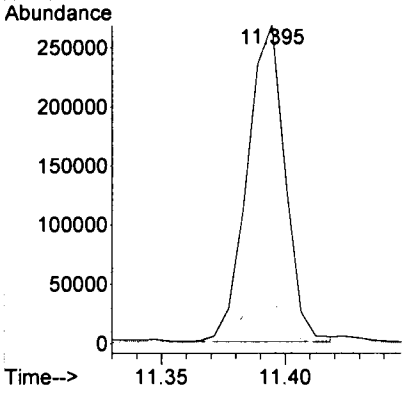


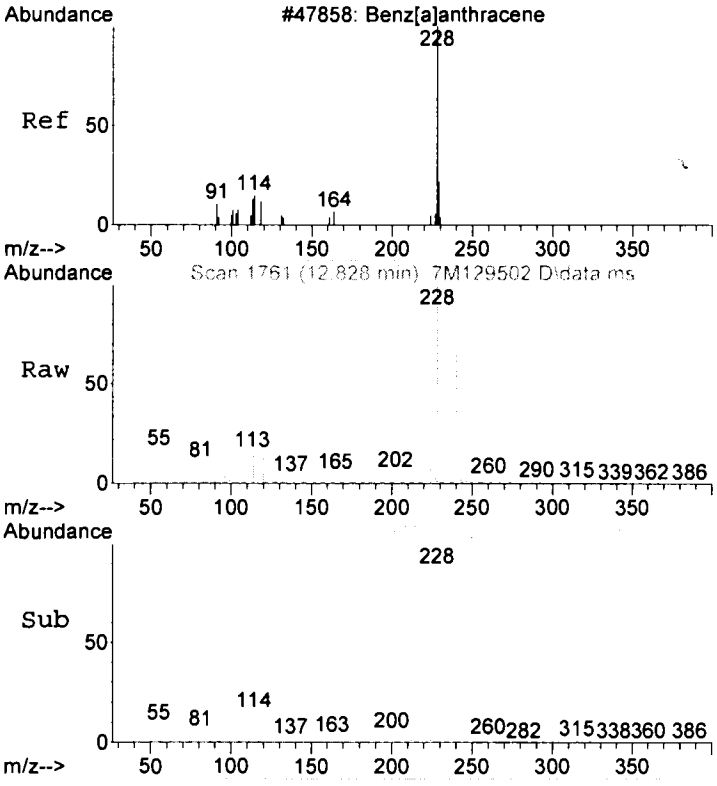


#92
Pyrene
Concen: 25.28 ng m
RT: 11.395 min Scan# 1517
Delta R.T. 0.018 min
Lab File: 7M129502.D
Acq: 24 Jun 2023 2:49

Tgt Ion:202 Resp: 285039

Ion	Ratio	Lower	Upper
202	100		
101	14.2	0.0	62.2
100	11.6	0.0	57.8

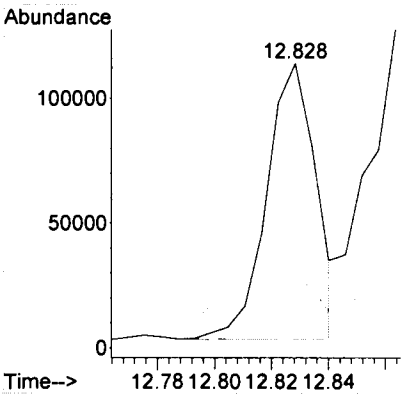


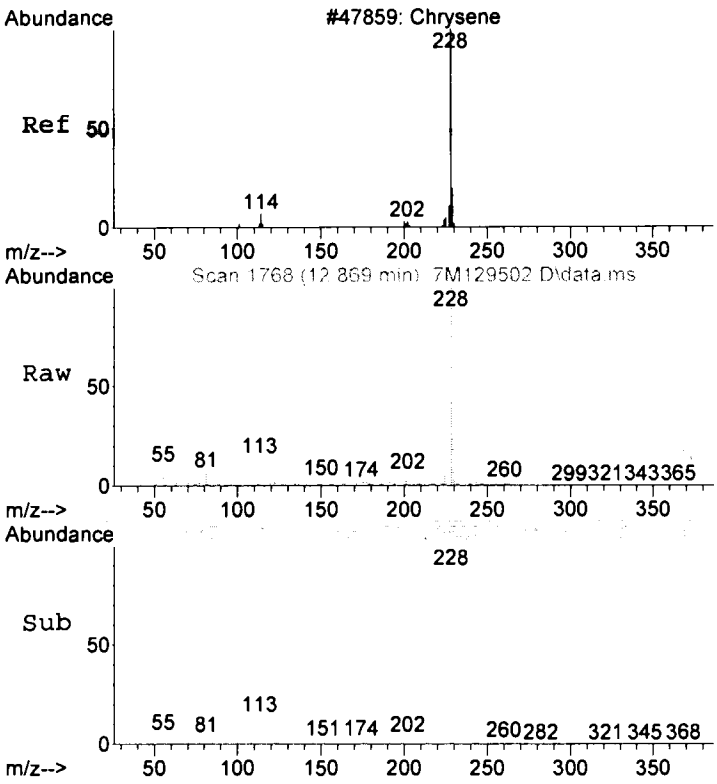


#100
Benzo[a]anthracene
Concen: 13.37 ng m
RT: 12.828 min Scan# 1761
Delta R.T. 0.018 min
Lab File: 7M129502.D
Acq: 24 Jun 2023 2:49

Tgt Ion:228 Resp: 133056

Ion	Ratio	Lower	Upper
228	100		
229	25.4	0.0	59.5
226	35.0	0.0	66.0

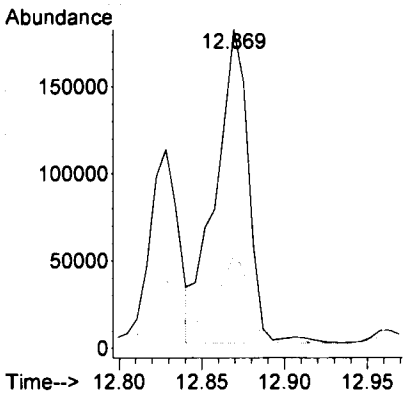


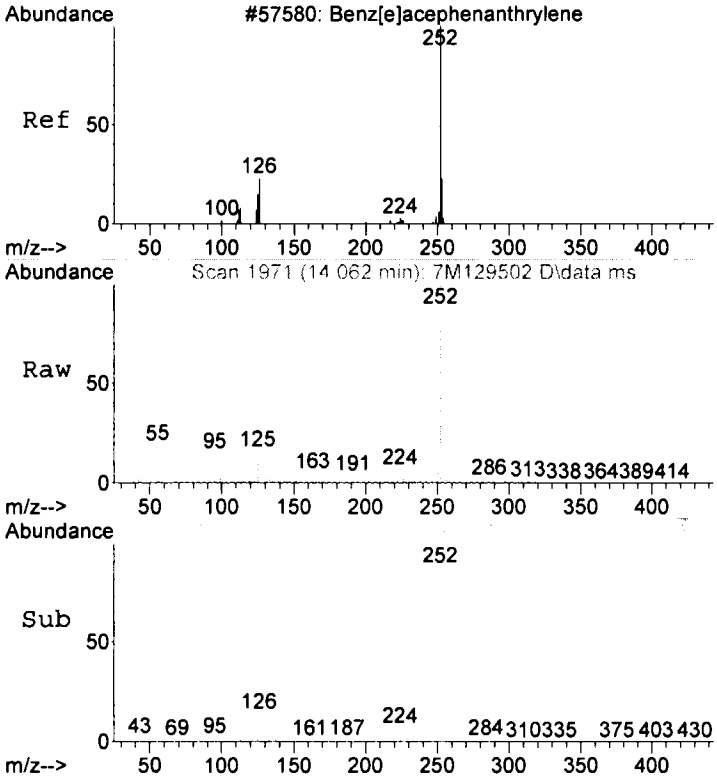


#101
Chrysene
Concen: 28.61 ng m
RT: 12.869 min Scan# 1768
Delta R.T. 0.018 min
Lab File: 7M129502.D
Acq: 24 Jun 2023 2:49

Tgt Ion:228 Resp: 249567

Ion	Ratio	Lower	Upper
228	100		
226	29.3	9.5	49.5
229	25.7	0.0	60.2

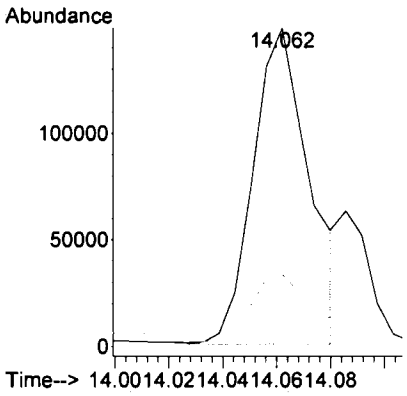


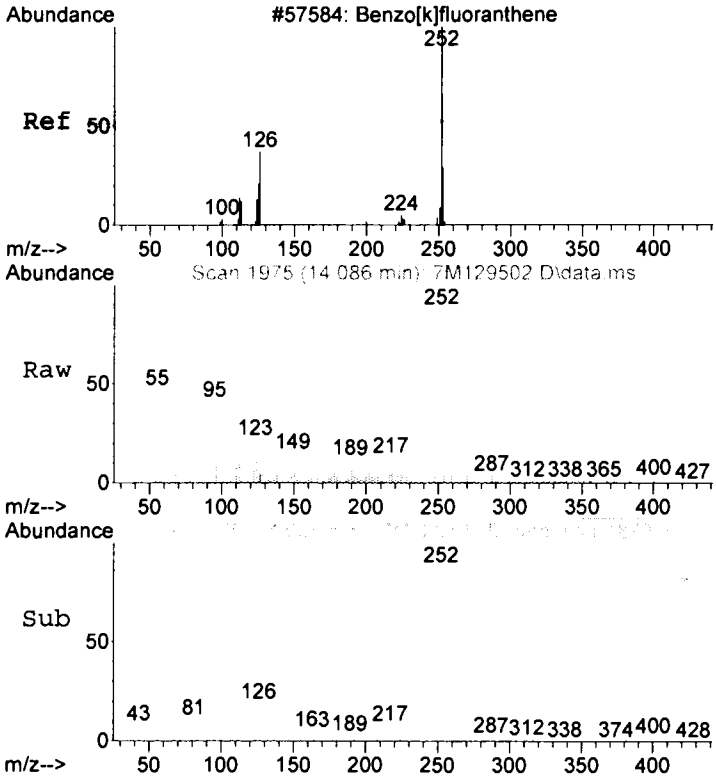


#105
Benzo[b]fluoranthene
Concen: 26.27 ng m
RT: 14.062 min Scan# 1971
Delta R.T. 0.006 min
Lab File: 7M129502.D
Acq: 24 Jun 2023 2:49

Tgt Ion:252 Resp: 213082

Ion	Ratio	Lower	Upper
252	100		
253	22.6	0.0	62.3
125	16.2	0.0	58.4

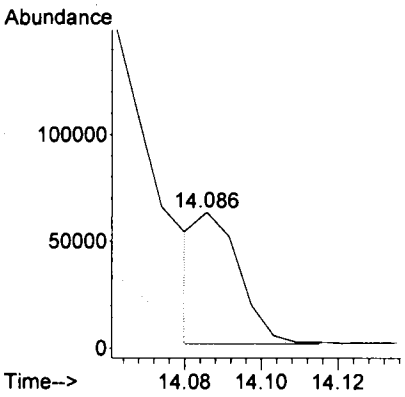


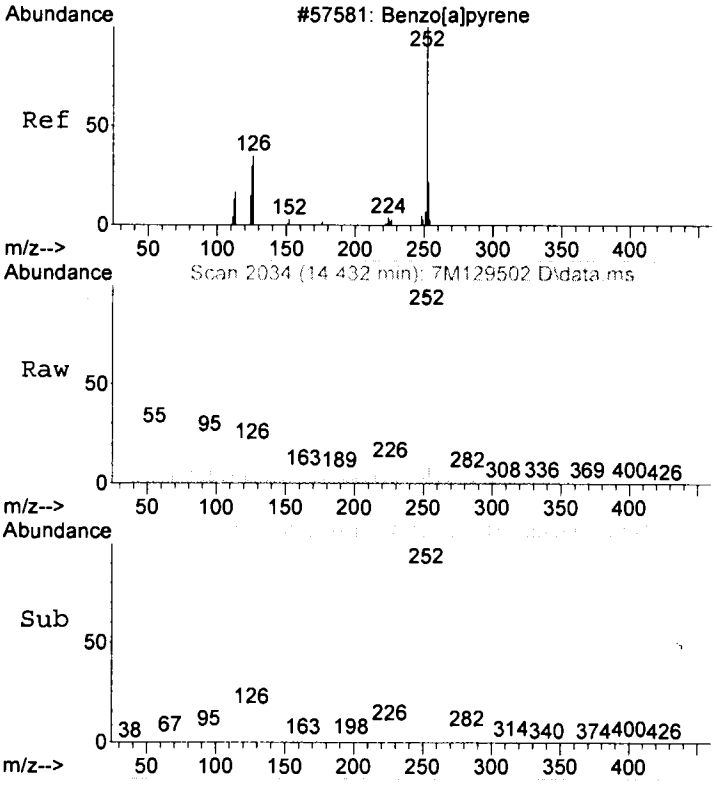


#106
Benzo[k]fluoranthene
Concen: 6.41 ng m
RT: 14.086 min Scan# 1975
Delta R.T. -0.000 min
Lab File: 7M129502.D
Acq: 24 Jun 2023 2:49

Tgt Ion:252 Resp: 47822

Ion	Ratio	Lower	Upper
252	100		
253	26.9	0.0	122.2
125	20.9	0.0	118.9

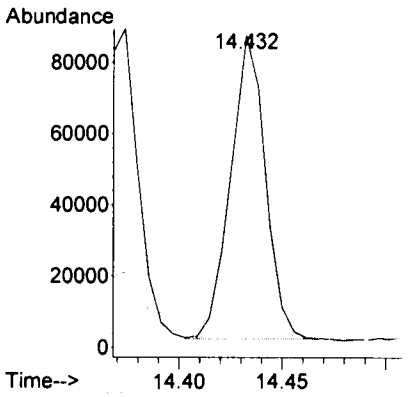


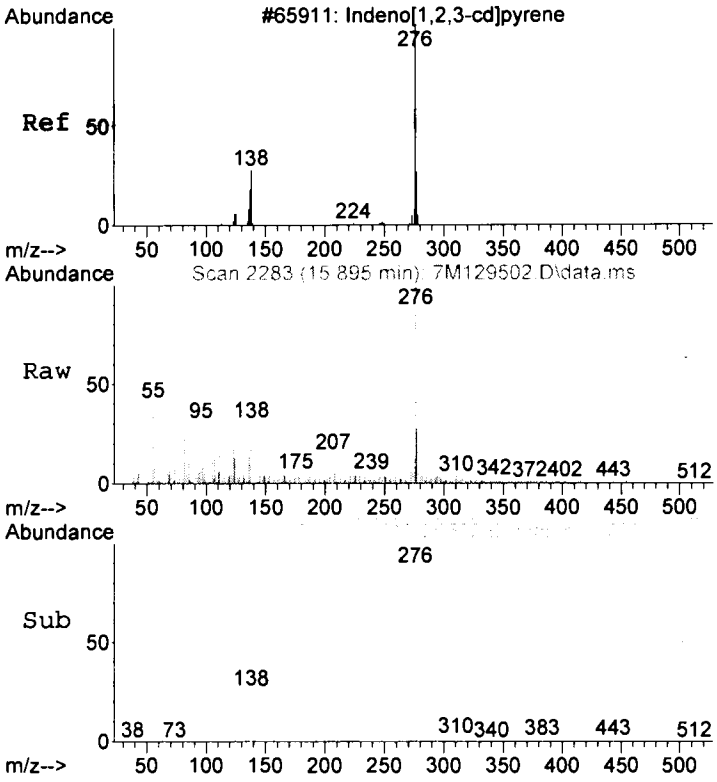


#107
Benzo[a]pyrene
Concen: 14.32 ng m
RT: 14.432 min Scan# 2034
Delta R.T. 0.006 min
Lab File: 7M129502.D
Acq: 24 Jun 2023 2:49

Tgt Ion:252 Resp: 100064

Ion	Ratio	Lower	Upper
252	100		
253	26.0	0.0	62.4
125	18.7	0.0	60.9

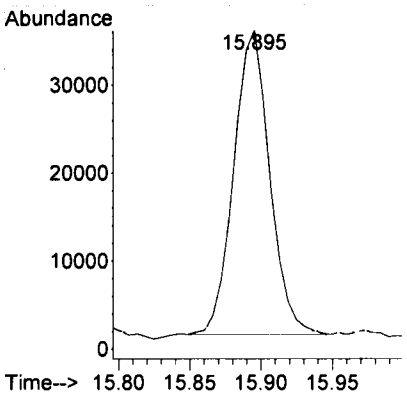


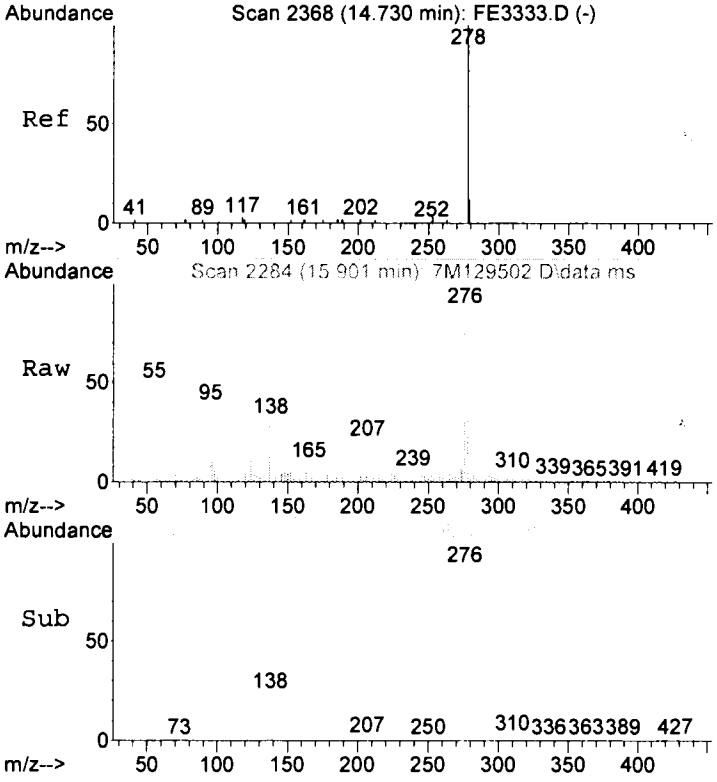


#108
Indeno[1,2,3-cd]pyrene
Concen: 7.50 ng m
RT: 15.895 min Scan# 2283
Delta R.T. 0.023 min
Lab File: 7M129502.D
Acq: 24 Jun 2023 2:49

Tgt Ion:276 Resp: 60844

Ion	Ratio	Lower	Upper
276	100		
138	30.9	0.0	78.9

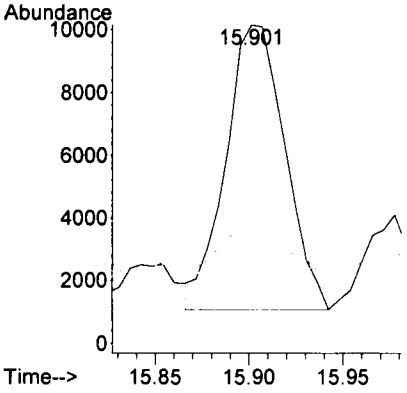


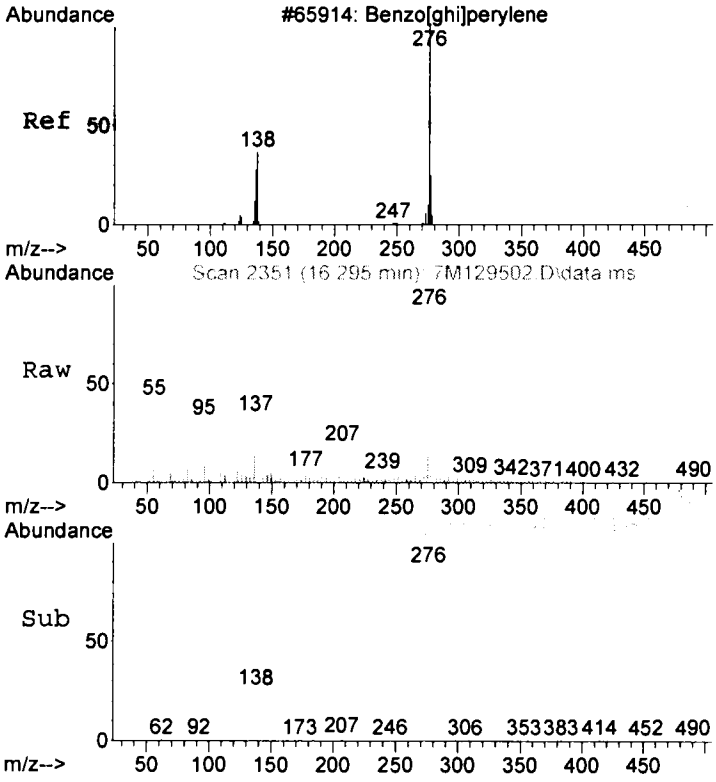


#109
Dibenzo[a,h]anthracene
Concen: 2.96 ng m
RT: 15.901 min Scan# 2284
Delta R.T. -0.000 min
Lab File: 7M129502.D
Acq: 24 Jun 2023 2:49

Tgt Ion:278 Resp: 19972

Ion	Ratio	Lower	Upper
278	100		
139	40.8	0.0	72.0
279	41.0	0.0	63.9

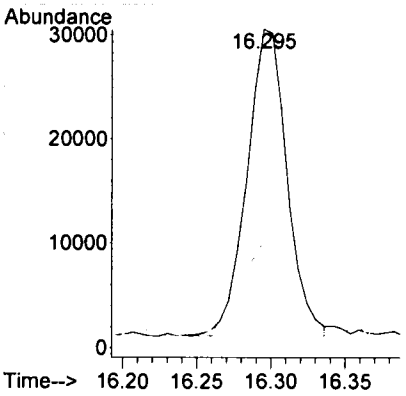




#110
Benzo[g,h,i]perylene
Concen: 8.24 ng m
RT: 16.295 min Scan# 2351
Delta R.T. 0.018 min
Lab File: 7M129502.D
Acq: 24 Jun 2023 2:49

Tgt Ion:276 Resp: 55114

Ion	Ratio	Lower	Upper
276	100		
138	31.7	0.0	60.0
277	25.6	6.0	34.0



Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38586-003
Client Id: HB-2
Data File: 9M122466.D
Analysis Date: 06/23/23 17:23
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	0.040	U	**218-01-9**	**Chrysene**	**0.040**	**0.14**
83-32-9	Acenaphthene	0.040	U	53-70-3	Dibenzo[a,h]anthracene	0.040	U
208-96-8	Acenaphthylene	0.040	U	**206-44-0**	**Fluoranthene**	**0.040**	**0.18**
120-12-7	**Anthracene**	**0.040**	**0.041**	86-73-7	Fluorene	0.040	U
56-55-3	**Benzo[a]anthracene**	**0.040**	**0.14**	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.040**	**0.097**
50-32-8	**Benzo[a]pyrene**	**0.040**	**0.18**	**91-20-3**	**Naphthalene**	**0.010**	**0.021**
205-99-2	**Benzo[b]fluoranthene**	**0.040**	**0.20**	**85-01-8**	**Phenanthrene**	**0.040**	**0.14**
191-24-2	**Benzo[g,h,i]perylene**	**0.040**	**0.11**	**129-00-0**	**Pyrene**	**0.040**	**0.16**
207-08-9	**Benzo[k]fluoranthene**	**0.040**	**0.066**				

Worksheet #: 696345 *Total Target Concentration* 1.5 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

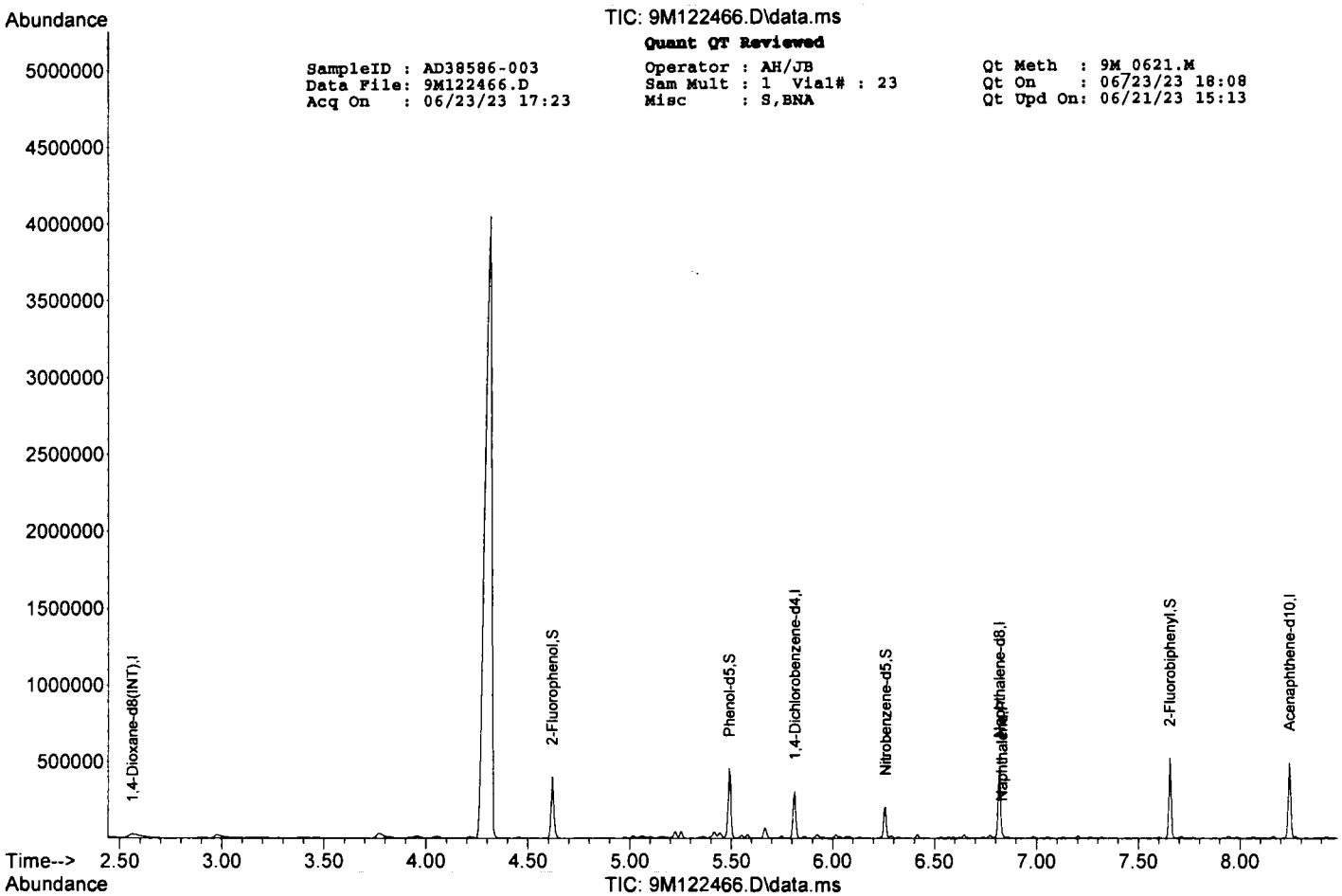
Quantitation Report (QT Reviewed)

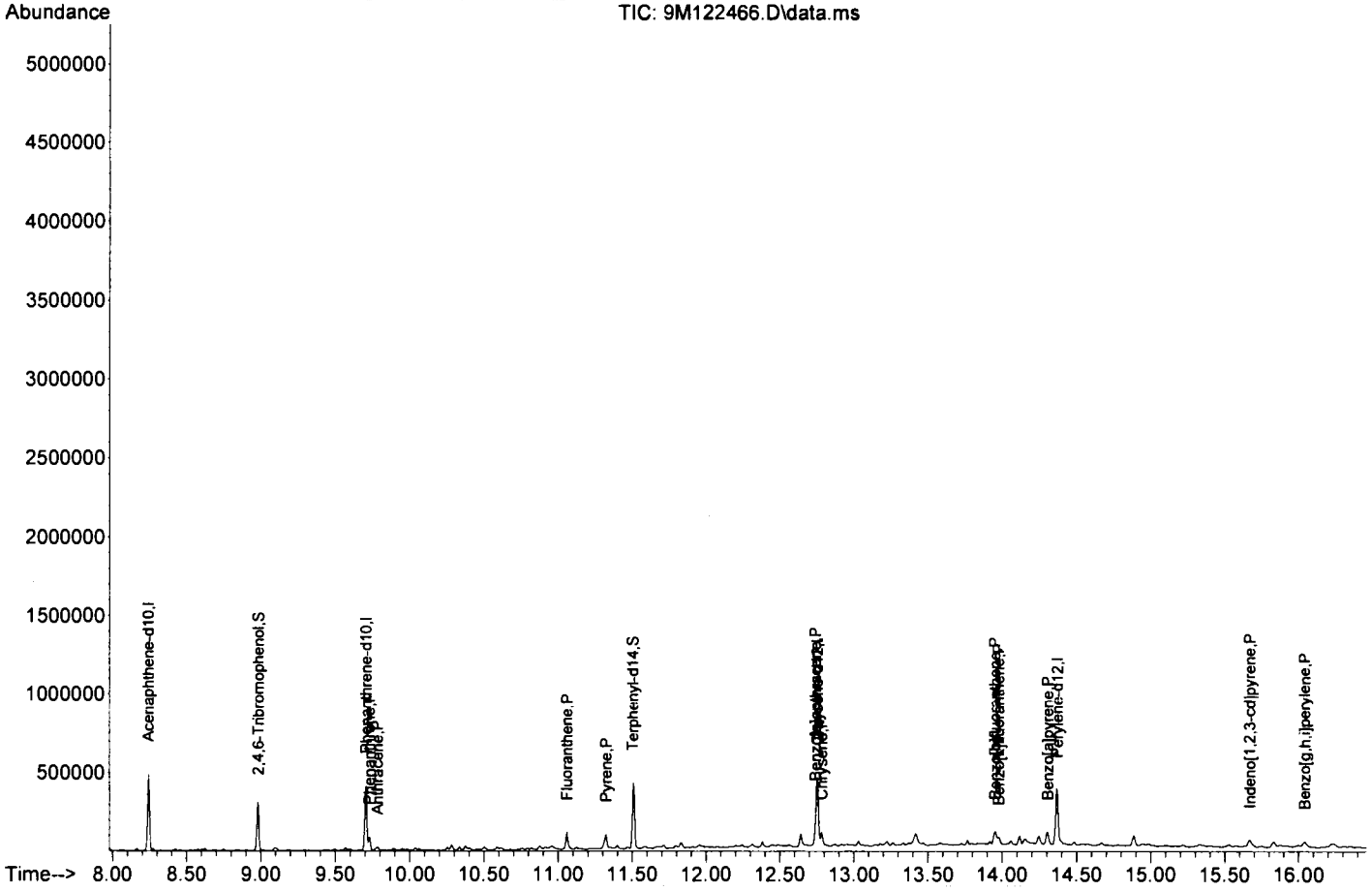
SampleID : AD38586-003 Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122466.D Sam Mult : 1 Vial# : 23 Qt On : 06/23/23 18:08
Acq On : 06/23/23 17:23 Misc : S,BNA Qt Upd On: 06/21/23 15:13

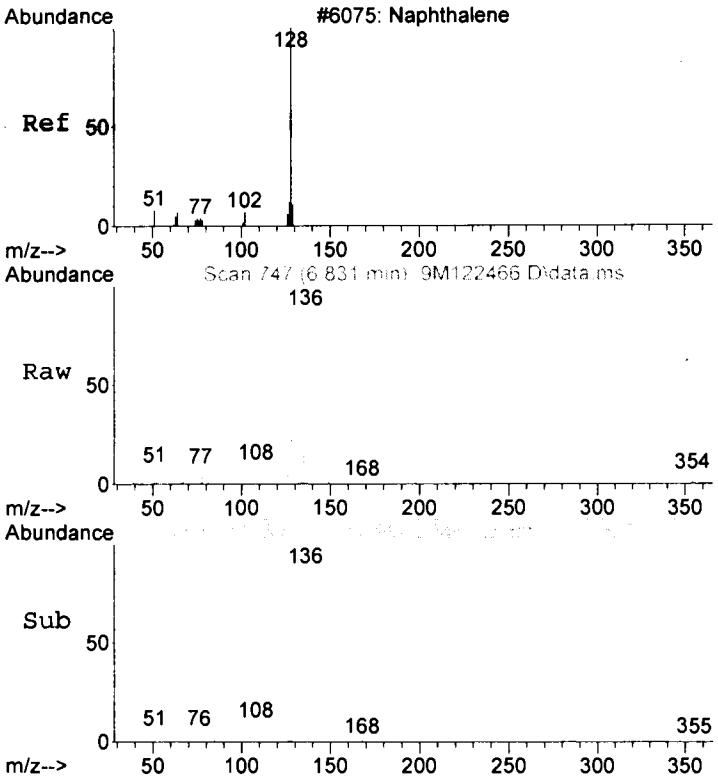
Data Path : G:\GcMsData\2023\GCMS_9\Data\06-23-23
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.560	96	27278	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.813	152	46929	40.00	ng	0.00
31) Naphthalene-d8	6.819	136	174815	40.00	ng	0.00
50) Acenaphthene-d10	8.242	164	95960	40.00	ng	0.00
77) Phenanthrene-d10	9.707	188	168778	40.00	ng	0.00
91) Chrysene-d12	12.754	240	147939	40.00	ng	0.00
103) Perylene-d12	14.371	264	149336	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.619	112	108790	68.34	ng	0.01
Spiked Amount 100.000			Recovery = 68.34%			
16) Phenol-d5	5.490	99	138323	72.59	ng	0.00
Spiked Amount 100.000			Recovery = 72.59%			
32) Nitrobenzene-d5	6.260	128	28500	38.72	ng	0.00
Spiked Amount 50.000			Recovery = 77.44%			
55) 2-Fluorobiphenyl	7.654	172	137936	40.10	ng	0.00
Spiked Amount 50.000			Recovery = 80.20%			
80) 2,4,6-Tribromophenol	8.984	330	36437	86.41	ng	0.00
Spiked Amount 100.000			Recovery = 86.41%			
94) Terphenyl-d14	11.507	244	128219	44.09	ng	0.00
Spiked Amount 50.000			Recovery = 88.18%			
Target Compounds						Qvalue
41) Naphthalene	6.831	128	5251m	1.0532	ng	
86) Phenanthrene	9.731	178	32278m	7.1494	ng	
87) Anthracene	9.783	178	9448m	2.0480	ng	
90) Fluoranthene	11.060	202	45316m	8.8859	ng	
92) Pyrene	11.325	202	39630m	7.9991	ng	
100) Benzo[a]anthracene	12.742	228	31835m	6.7295	ng	
101) Chrysene	12.783	228	31282m	7.1219	ng	
105) Benzo[b]fluoranthene	13.954	252	45950m	9.8032	ng	
106) Benzo[k]fluoranthene	13.977	252	14425m	3.2640	ng	
107) Benzo[a]pyrene	14.307	252	35289m	8.8122	ng	
108) Indeno[1,2,3-cd]pyrene	15.671	276	24623m	4.8284	ng	
110) Benzo[g,h,i]perylene	16.042	276	22908m	5.4558	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M122466.D\data.ms
Quant QT Reviewed
SampleID : AD38586-003
Data File: 9M122466.D
Acq On : 06/23/23 17:23
Operator : AH/JB
Sam Mult : 1 Vial# : 23
Misc : S,BNA
Qt Meth : 9M_0621.M
Qt On : 06/23/23 18:08
Qt Upd On: 06/21/23 15:13
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Time-->

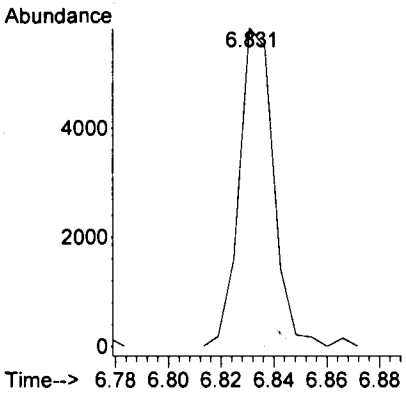

Abundance
TIC: 9M122466.D\data.ms
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Benzo[a]pyrene,P
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,P
Benzo[g,h,i]perylene,P
Time-->

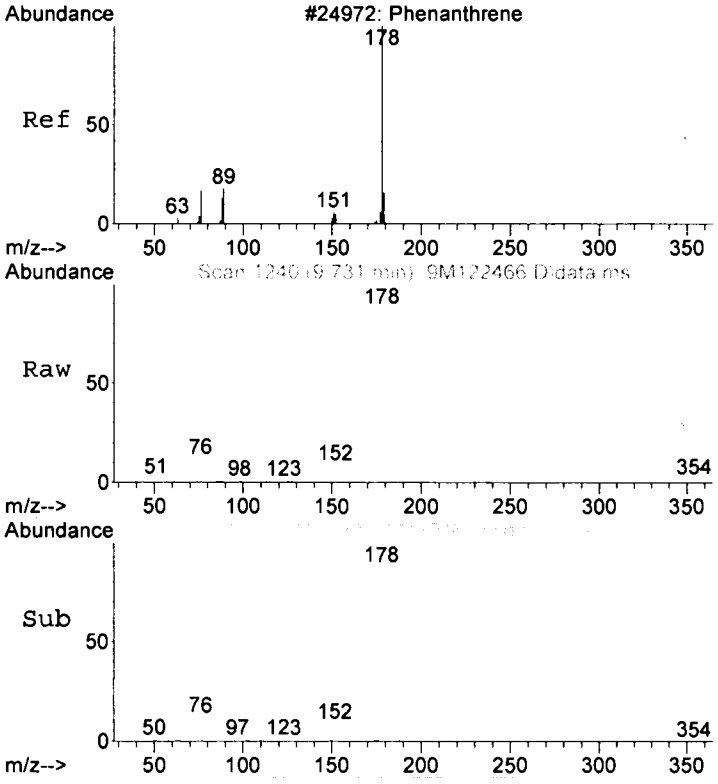


#41
Naphthalene
Concen: 1.05 ng m
RT: 6.831 min Scan# 747
Delta R.T. -0.006 min
Lab File: 9M122466.D
Acq: 23 Jun 2023 17:23

Tgt Ion:128 Resp: 5251

Ion	Ratio	Lower	Upper
128	100		
129	11.6	0.0	50.9
127	13.0	0.0	52.4

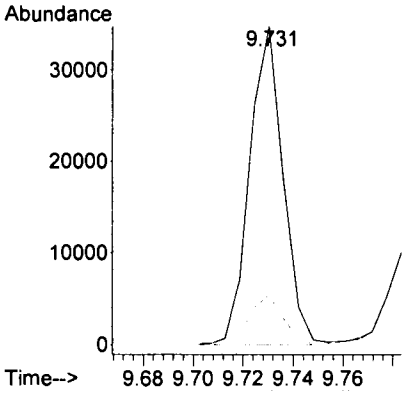


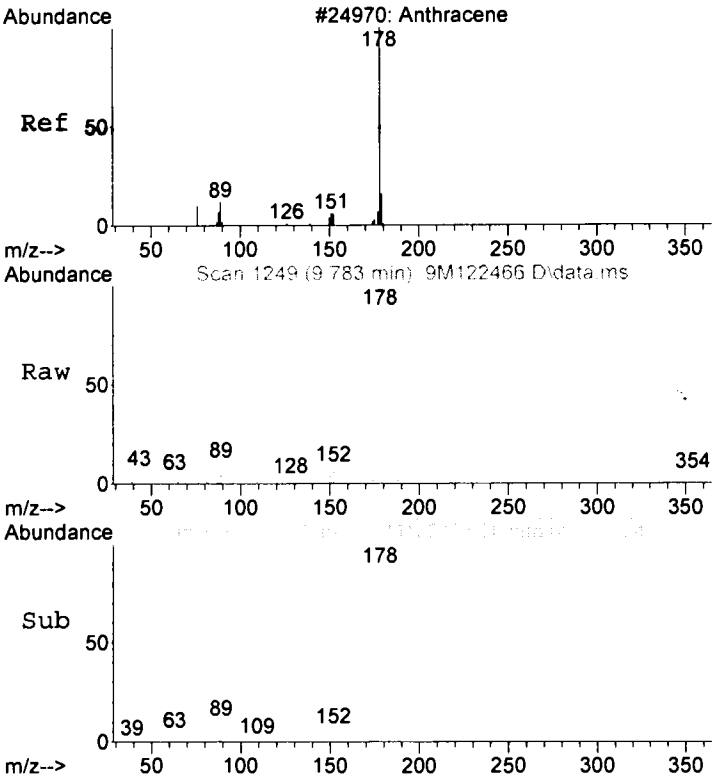


#86
Phenanthrene
Concen: 7.15 ng m
RT: 9.731 min Scan# 1240
Delta R.T. -0.000 min
Lab File: 9M122466.D
Acq: 23 Jun 2023 17:23

Tgt Ion:178 Resp: 32278

Ion	Ratio	Lower	Upper
178	100		
179	15.5	0.0	55.5
176	18.3	0.0	59.3

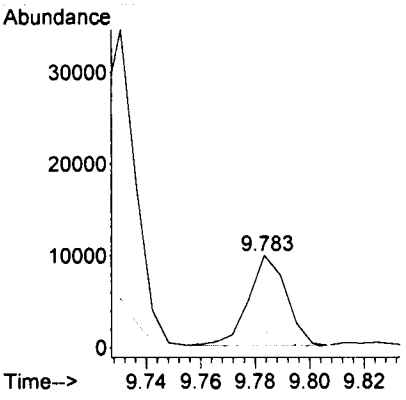


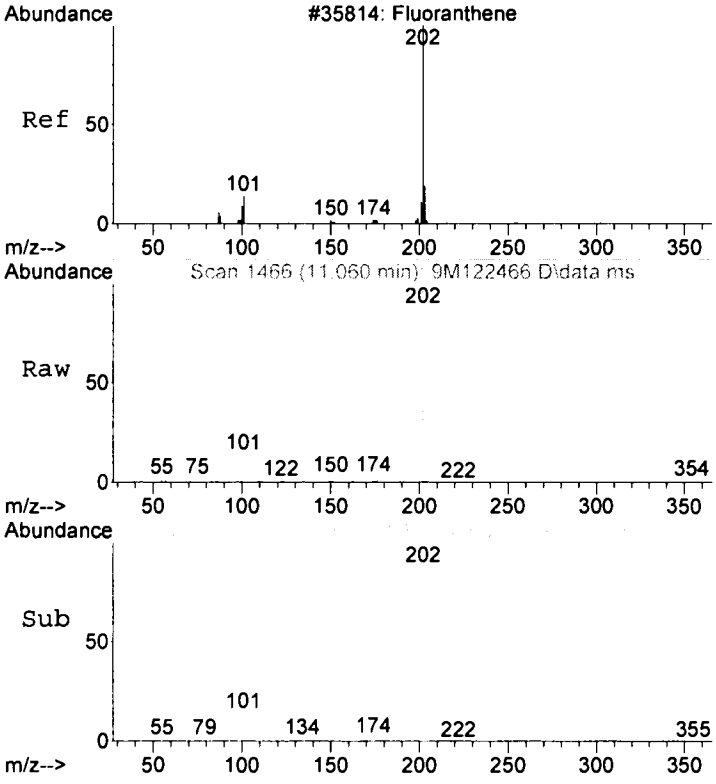


#87
Anthracene
Concen: 2.05 ng m
RT: 9.783 min Scan# 1249
Delta R.T. -0.006 min
Lab File: 9M122466.D
Acq: 23 Jun 2023 17:23

Tgt Ion:178 Resp: 9448

Ion	Ratio	Lower	Upper
178	100		
179	15.6	0.0	55.2
176	16.6	0.0	58.1

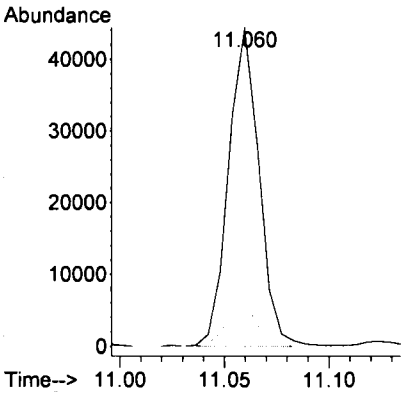


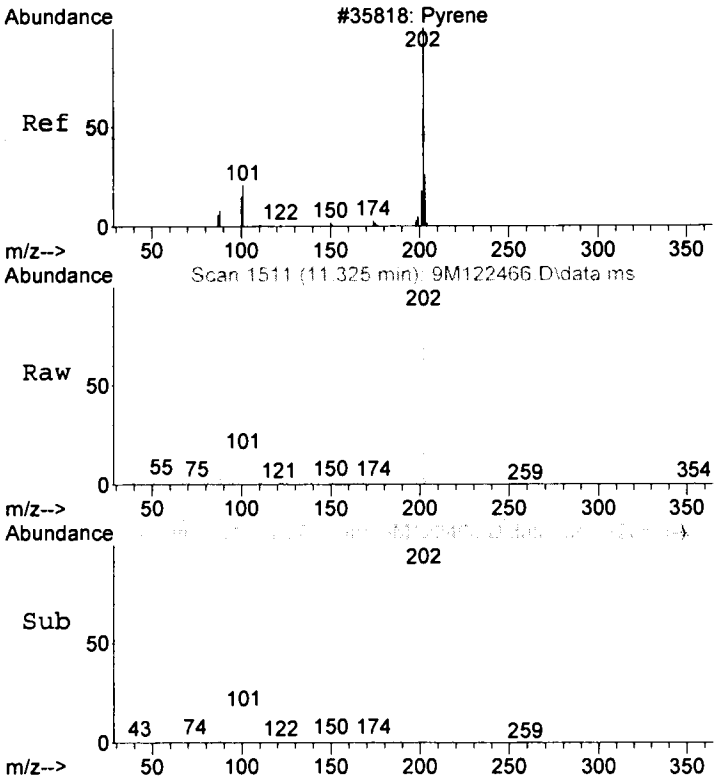


#90
Fluoranthene
Concen: 8.89 ng m
RT: 11.060 min Scan# 1466
Delta R.T. -0.000 min
Lab File: 9M122466.D
Acq: 23 Jun 2023 17:23

Tgt Ion:202 Resp: 45316

Ion	Ratio	Lower	Upper
202	100		
101	14.1	0.0	57.6

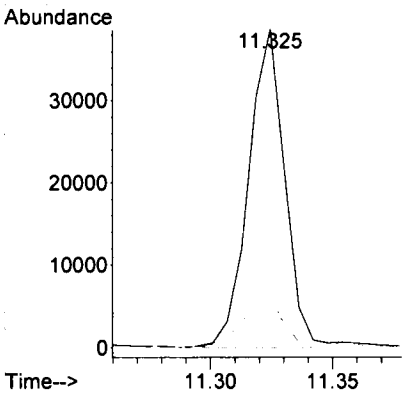


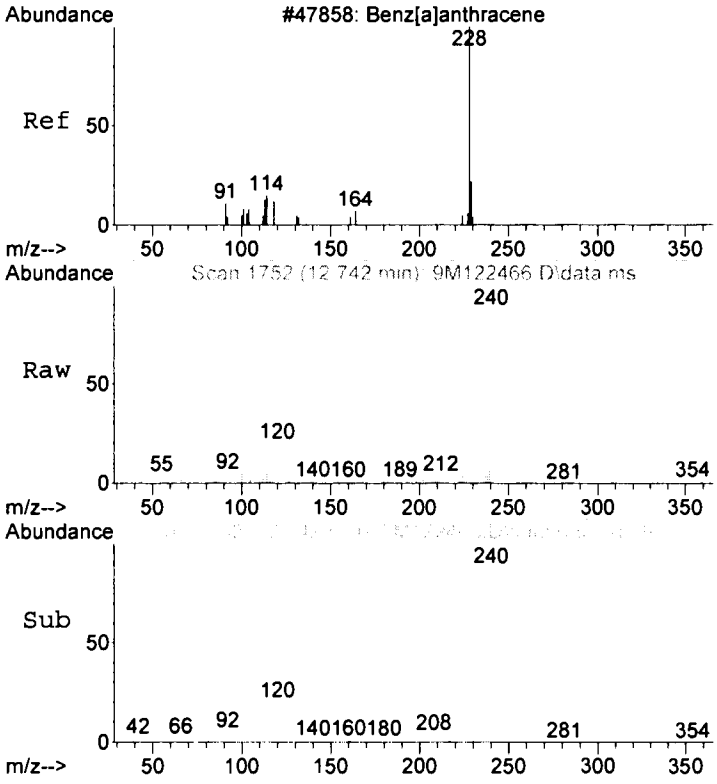


#92
Pyrene
Concen: 8.00 ng m
RT: 11.325 min Scan# 1511
Delta R.T. -0.000 min
Lab File: 9M122466.D
Acq: 23 Jun 2023 17:23

Tgt Ion:202 Resp: 39630

Ion	Ratio	Lower	Upper
202	100		
101	16.1	0.0	62.2
100	14.3	0.0	57.8

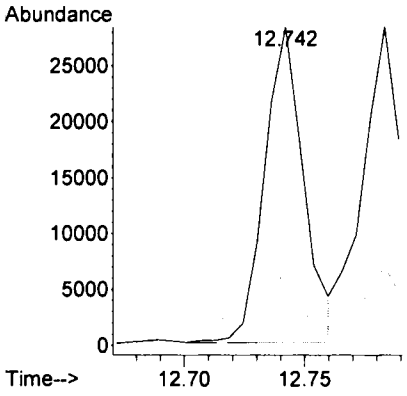


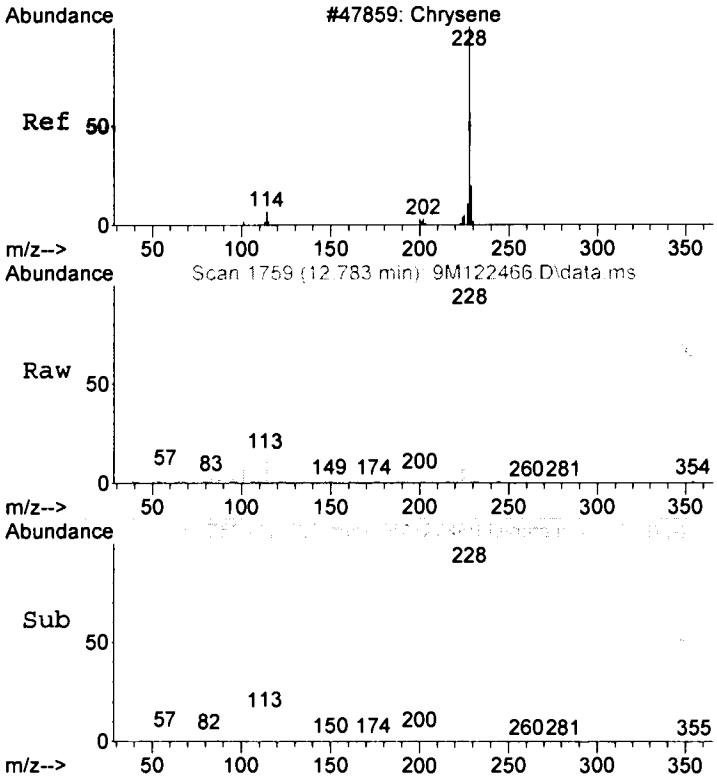


#100
Benzo[a]anthracene
Concen: 6.73 ng m
RT: 12.742 min Scan# 1752
Delta R.T. -0.000 min
Lab File: 9M122466.D
Acq: 23 Jun 2023 17:23

Tgt Ion:228 Resp: 31835

Ion	Ratio	Lower	Upper
228	100		
229	22.5	0.0	59.5
226	28.8	0.0	66.0

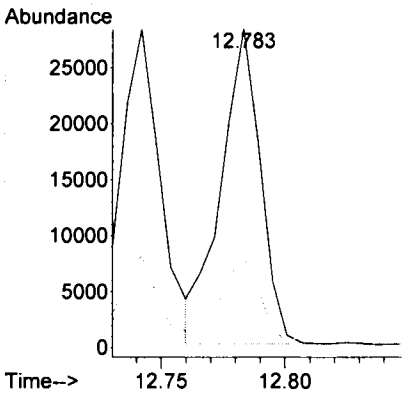


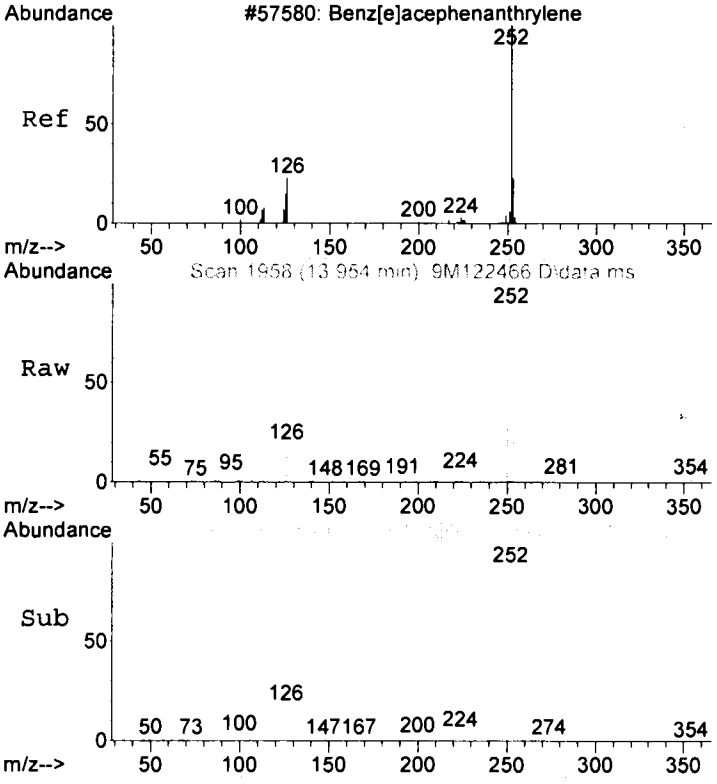


#101
Chrysene
Concen: 7.12 ng m
RT: 12.783 min Scan# 1759
Delta R.T. -0.000 min
Lab File: 9M122466.D
Acq: 23 Jun 2023 17:23

Tgt Ion:228 Resp: 31282

Ion	Ratio	Lower	Upper
228	100		
226	28.6	9.5	49.5
229	24.8	0.0	60.2

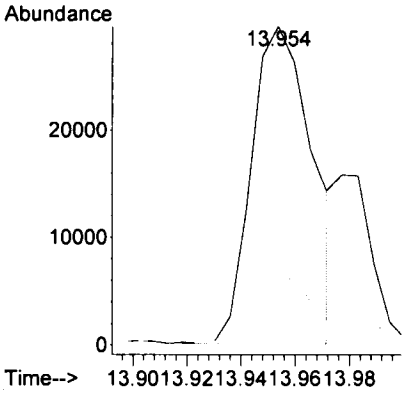


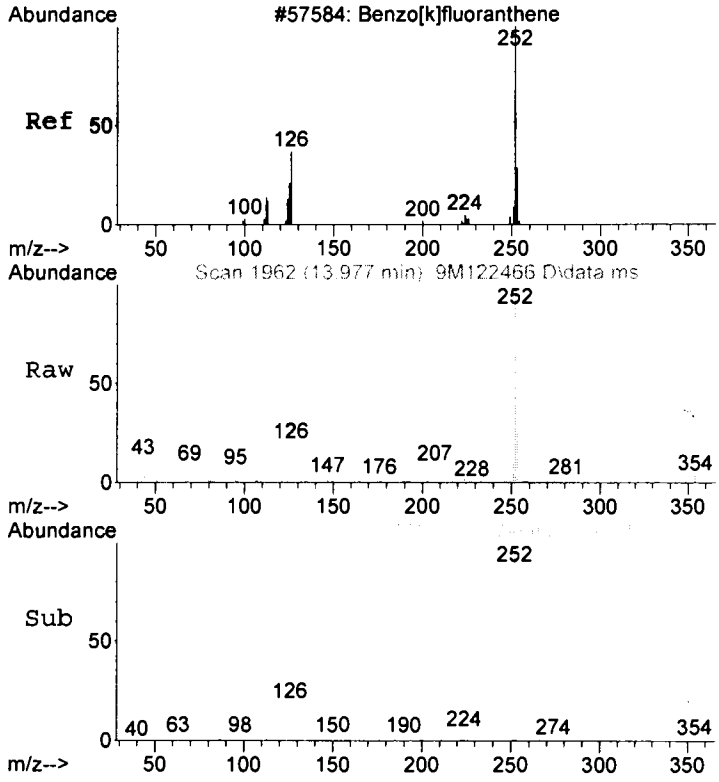


#105
Benzo[b]fluoranthene
Concen: 9.80 ng m
RT: 13.954 min Scan# 1958
Delta R.T. -0.000 min
Lab File: 9M122466.D
Acq: 23 Jun 2023 17:23

Tgt Ion:252 Resp: 45950

Ion	Ratio	Lower	Upper
252	100		
253	22.6	0.0	72.3
125	16.2	0.0	60.0

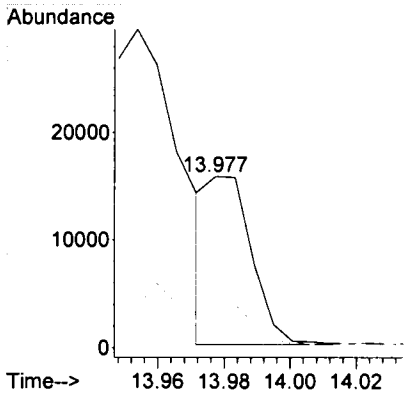


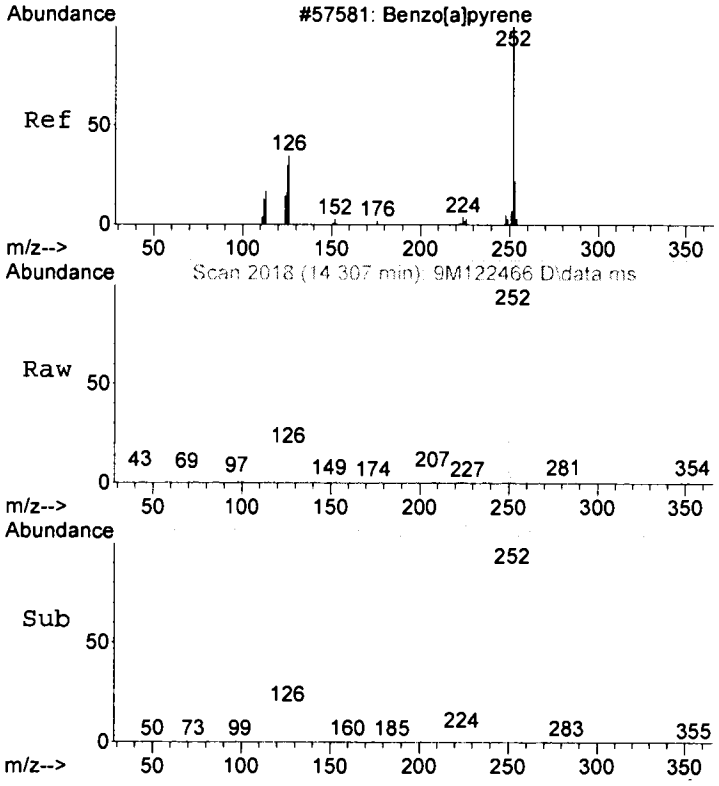


#106
Benzo[k]fluoranthene
Concen: 3.26 ng m
RT: 13.977 min Scan# 1962
Delta R.T. -0.006 min
Lab File: 9M122466.D
Acq: 23 Jun 2023 17:23

Tgt Ion:252 Resp: 14425

Ion	Ratio	Lower	Upper
252	100		
253	24.9	0.0	62.0
125	16.7	0.0	52.0

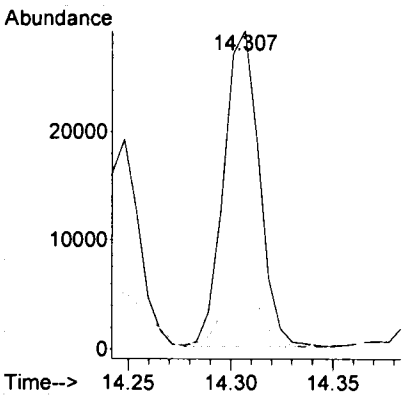


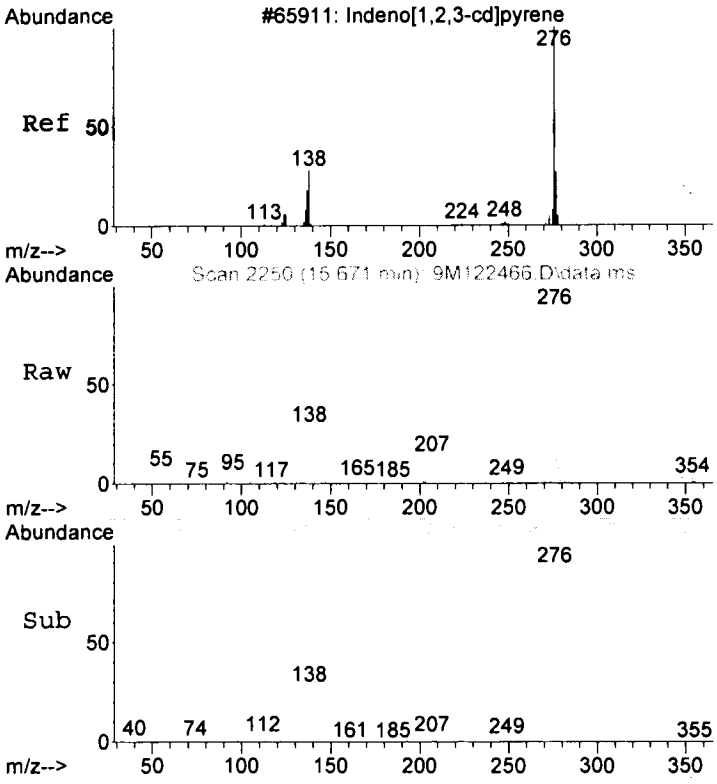


#107
Benzo[a]pyrene
Concen: 8.81 ng m
RT: 14.307 min Scan# 2018
Delta R.T. -0.000 min
Lab File: 9M122466.D
Acq: 23 Jun 2023 17:23

Tgt Ion:252 Resp: 35289

Ion	Ratio	Lower	Upper
252	100		
253	24.4	0.0	62.4
125	15.9	0.0	60.9

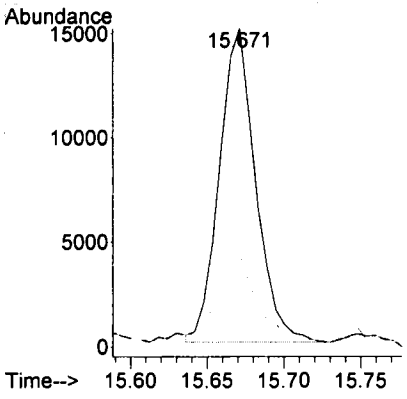


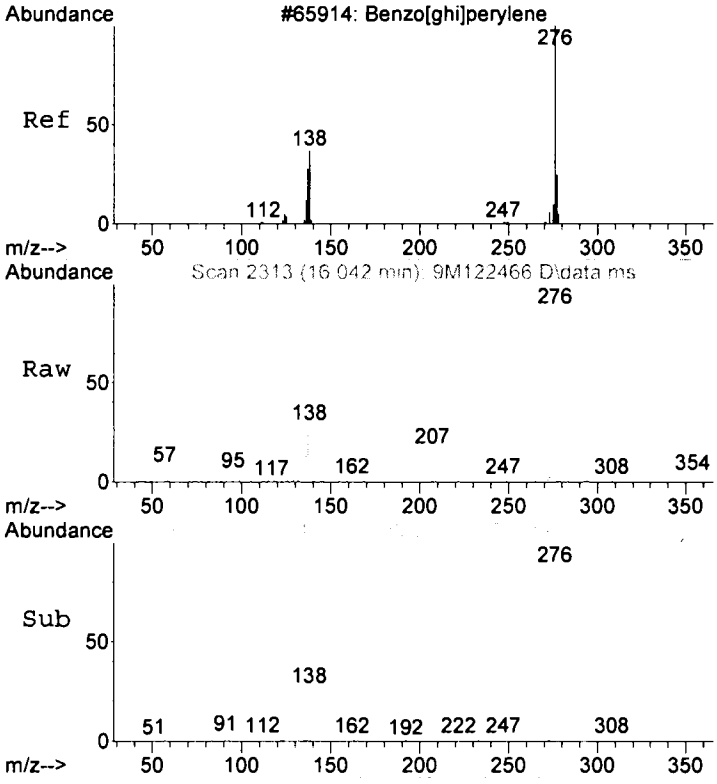


#108
Indeno[1,2,3-cd]pyrene
Concen: 4.83 ng m
RT: 15.671 min Scan# 2250
Delta R.T. -0.000 min
Lab File: 9M122466.D
Acq: 23 Jun 2023 17:23

Tgt Ion:276 Resp: 24623

Ion	Ratio	Lower	Upper
276	100		
138	29.3	0.0	78.9

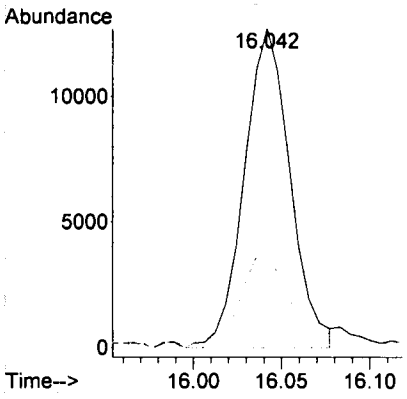




#110
Benzo[g,h,i]perylene
Concen: 5.46 ng m
RT: 16.042 min Scan# 2313
Delta R.T. -0.006 min
Lab File: 9M122466.D
Acq: 23 Jun 2023 17:23

Tgt Ion:276 Resp: 22908

Ion	Ratio	Lower	Upper
276	100		
138	28.4	0.0	100.0
277	26.4	0.0	60.0



Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38586-004
Client Id: HB-3
Data File: 7M129503.D
Analysis Date: 06/24/23 03:12
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 91

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	0.037	U	**218-01-9**	**Chrysene**	**0.037**	**0.25**
83-32-9	Acenaphthene	0.037	U	53-70-3	Dibenzo[a,h]anthracene	0.037	U
208-96-8	Acenaphthylene	0.037	U	**206-44-0**	**Fluoranthene**	**0.037**	**0.24**
120-12-7	**Anthracene**	**0.037**	**0.042**	86-73-7	Fluorene	0.037	U
56-55-3	**Benzo[a]anthracene**	**0.037**	**0.048**	193-39-5	Indeno[1,2,3-cd]pyrene	0.037	U
50-32-8	Benzo[a]pyrene	0.037	U	**91-20-3**	**Naphthalene**	**0.0092**	**0.012**
205-99-2	**Benzo[b]fluoranthene**	**0.037**	**0.12**	**85-01-8**	**Phenanthrene**	**0.037**	**0.13**
191-24-2	Benzo[g,h,i]perylene	0.037	U	**129-00-0**	**Pyrene**	**0.037**	**0.042**
207-08-9	Benzo[k]fluoranthene	0.037	U				

Worksheet #: 696345

Total Target Concentration 0.88

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

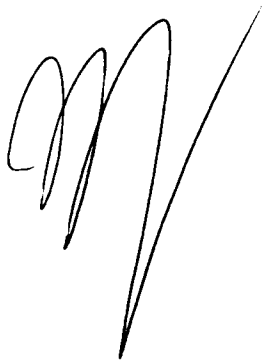
Quantitation Report (QT Reviewed)

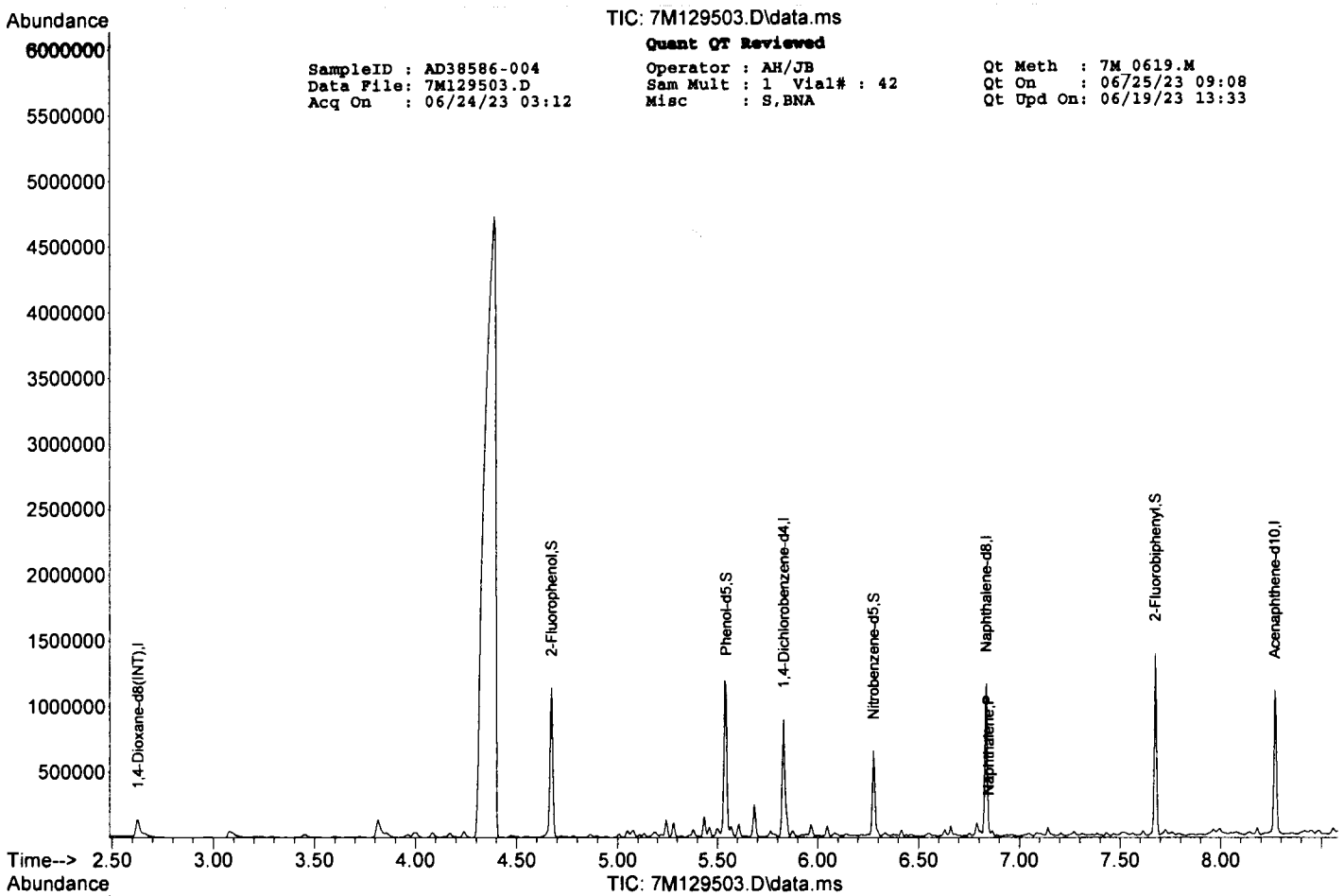
SampleID : AD38586-004 Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129503.D Sam Mult : 1 Vial# : 42 Qt On : 06/25/23 09:08
Acq On : 06/24/23 03:12 Misc : S,BNA Qt Upd On: 06/19/23 13:33

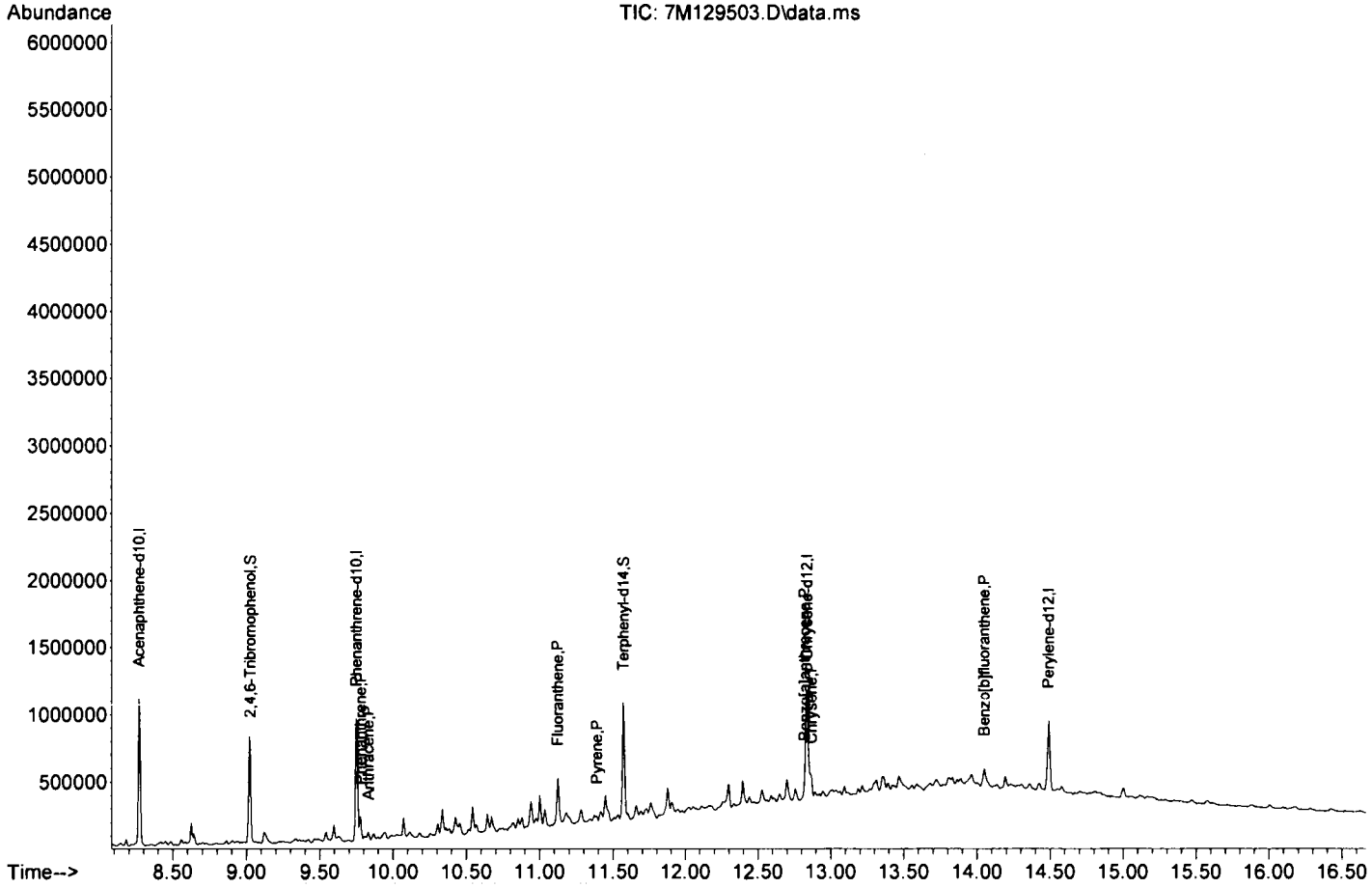
Data Path : G:\GcMsData\2023\GCMS_7\Data\06-2323
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

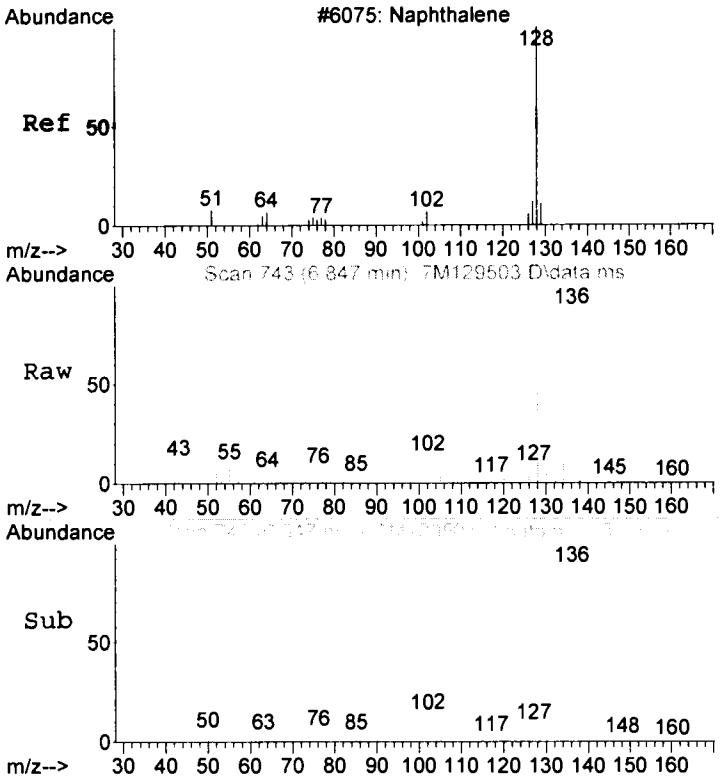
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.628	96	70026	40.00	ng	0.01
21) 1,4-Dichlorobenzene-d4	5.830	152	118230	40.00	ng	0.00
31) Naphthalene-d8	6.835	136	452016	40.00	ng	0.00
50) Acenaphthene-d10	8.269	164	244160	40.00	ng	0.00
77) Phenanthrene-d10	9.750	188	372846	40.00	ng	0.00
91) Chrysene-d12	12.840	240	278634	40.00	ng	0.02
103) Perylene-d12	14.491	264	230133	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.673	112	314117	74.21	ng	0.03
Spiked Amount 100.000			Recovery = 74.21%			
16) Phenol-d5	5.543	99	395554	79.10	ng	0.02
Spiked Amount 100.000			Recovery = 79.10%			
32) Nitrobenzene-d5	6.277	128	84618	40.51	ng	0.00
Spiked Amount 50.000			Recovery = 81.02%			
55) 2-Fluorobiphenyl	7.675	172	365415	45.88	ng	0.00
Spiked Amount 50.000			Recovery = 91.76%			
80) 2,4,6-Tribromophenol	9.027	330	77281	92.59	ng	0.00
Spiked Amount 100.000			Recovery = 92.59%			
94) Terphenyl-d14	11.571	244	272226	45.00	ng	0.01
Spiked Amount 50.000			Recovery = 90.00%			
Target Compounds						Qvalue
41) Naphthalene	6.847	128	7849m	0.6493	ng	
86) Phenanthrene	9.779	178	70263m	7.0873	ng	
87) Anthracene	9.832	178	22877m	2.2664	ng	
90) Fluoranthene	11.124	202	141256m	12.9601	ng	
92) Pyrene	11.389	202	23730m	2.2850	ng	
100) Benzo[a]anthracene	12.822	228	24219m	2.6409	ng	
101) Chrysene	12.869	228	108074m	13.4477	ng	
105) Benzo[b]fluoranthene	14.050	252	49241m	6.6672	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed




Abundance
TIC: 7M129503.D\data.ms
Quant QT Reviewed
SampleID : AD38586-004
Data File: 7M129503.D
Acq On : 06/24/23 03:12
Operator : AH/JB
Sam Mult : 1 Vial# : 42
Misc : S,BNA
Qt Meth : 7M_0619.M
Qt On : 06/25/23 09:08
Qt Upd On: 06/19/23 13:33
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Time-->

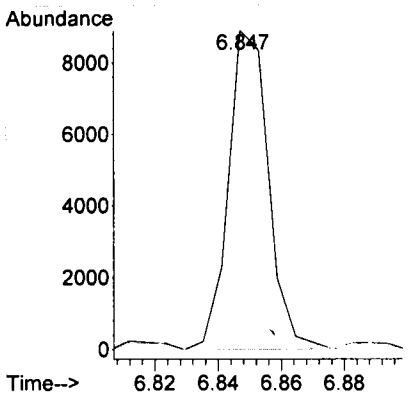

Abundance
TIC: 7M129503.D\data.ms
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Benzo[b]fluoranthene,P
Perylene-d12,I
Time-->

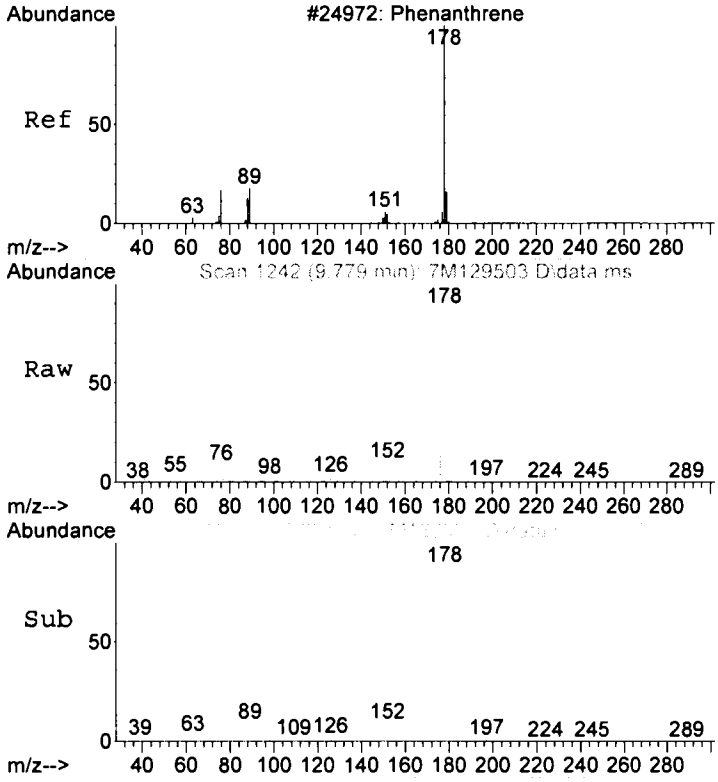


#41
Naphthalene
Concen: 0.65 ng m
RT: 6.847 min Scan# 743
Delta R.T. -0.006 min
Lab File: 7M129503.D
Acq: 24 Jun 2023 3:12

Tgt Ion:128 Resp: 7849

Ion	Ratio	Lower	Upper
128	100		
129	12.6	0.0	50.9
127	15.3	0.0	52.4

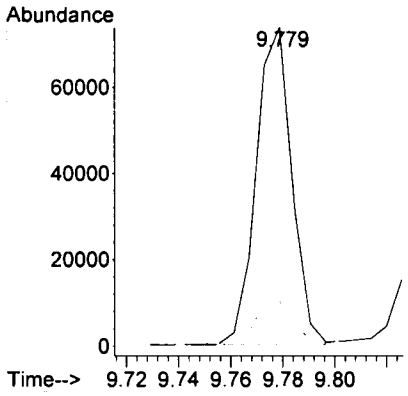


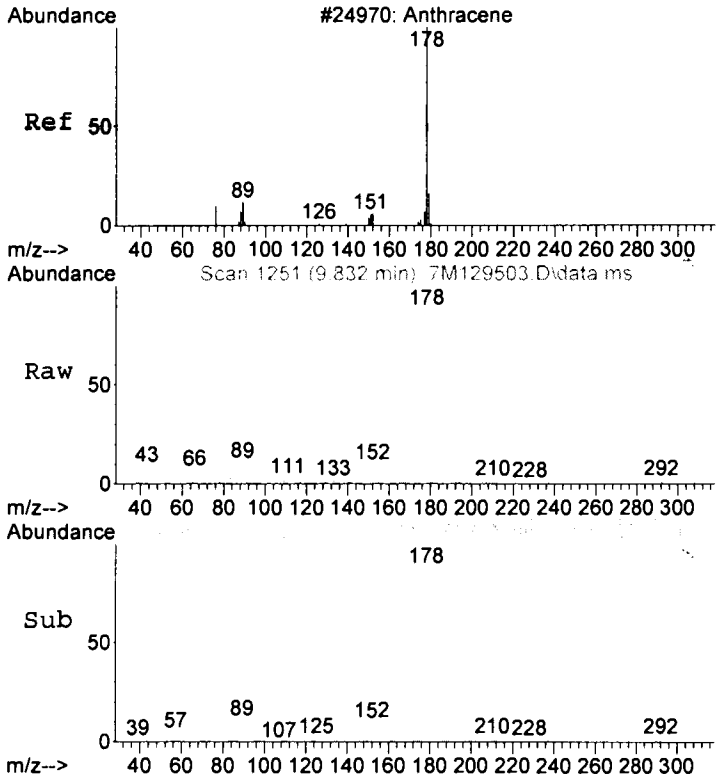


#86
Phenanthrene
Concen: 7.09 ng m
RT: 9.779 min Scan# 1242
Delta R.T. 0.006 min
Lab File: 7M129503.D
Acq: 24 Jun 2023 3:12

Tgt Ion:178 Resp: 70263

Ion	Ratio	Lower	Upper
178	100		
179	14.1	0.0	55.5
176	19.2	0.0	59.3

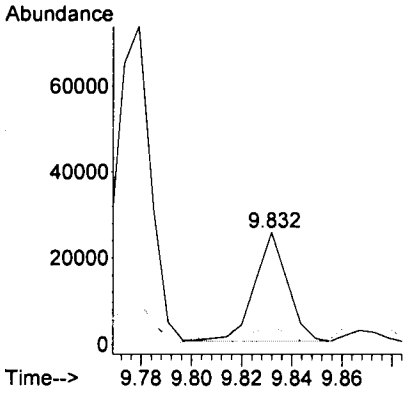


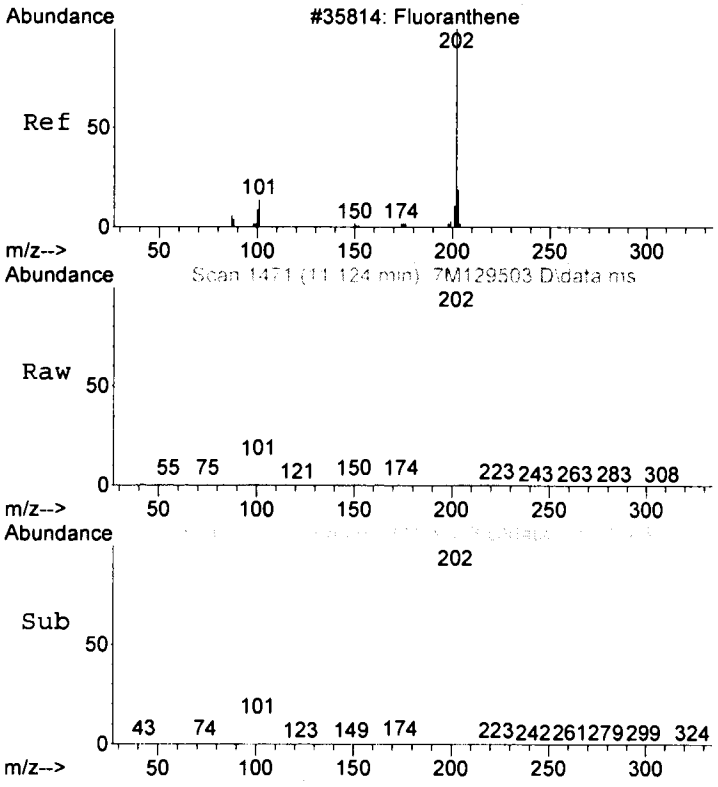


#87
Anthracene
Concen: 2.27 ng m
RT: 9.832 min Scan# 1251
Delta R.T. -0.000 min
Lab File: 7M129503.D
Acq: 24 Jun 2023 3:12

Tgt Ion:178 Resp: 22877

Ion	Ratio	Lower	Upper
178	100		
179	17.1	0.0	55.2
176	19.3	0.0	58.1

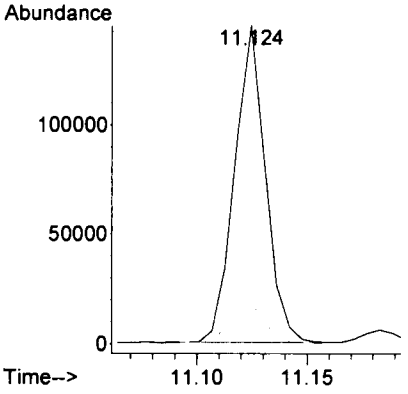


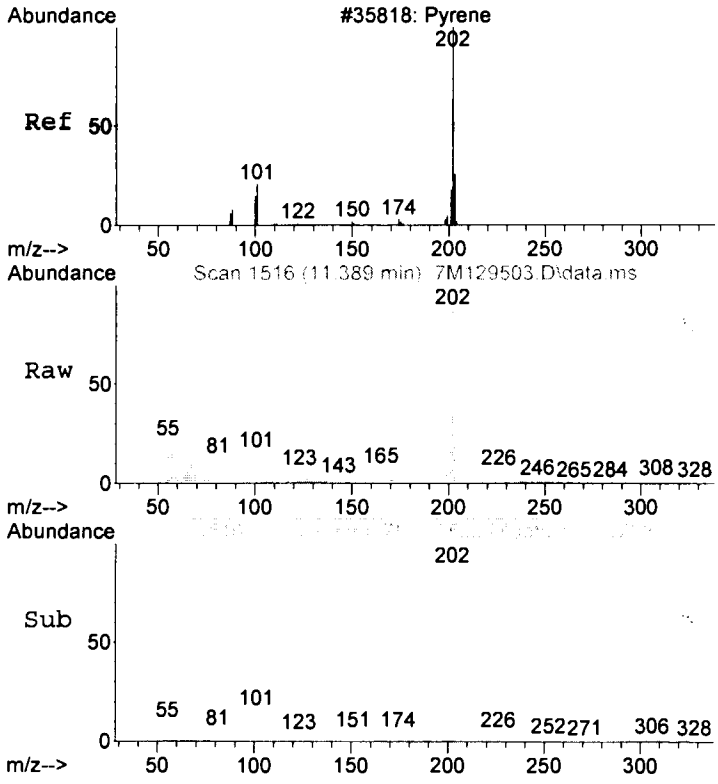


#90
Fluoranthene
Concen: 12.96 ng m
RT: 11.124 min Scan# 1471
Delta R.T. 0.012 min
Lab File: 7M129503.D
Acq: 24 Jun 2023 3:12

Tgt Ion:202 Resp: 141256

Ion	Ratio	Lower	Upper
202	100		
101	13.1	0.0	57.6

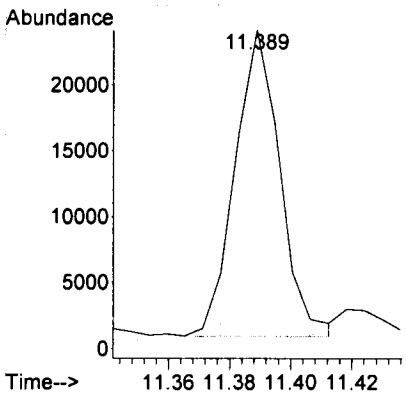


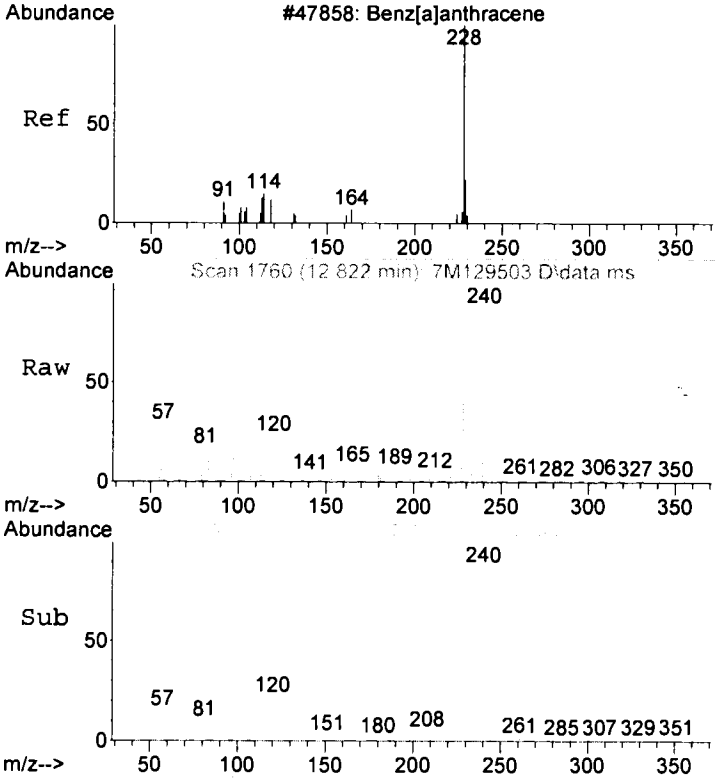


#92
Pyrene
Concen: 2.28 ng m
RT: 11.389 min Scan# 1516
Delta R.T. 0.012 min
Lab File: 7M129503.D
Acq: 24 Jun 2023 3:12

Tgt Ion:202 Resp: 23730

Ion	Ratio	Lower	Upper
202	100		
101	16.1	0.0	62.2
100	13.5	0.0	57.8

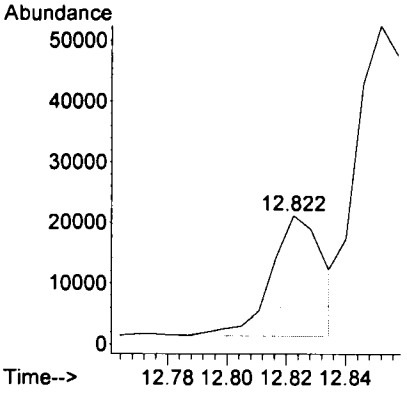


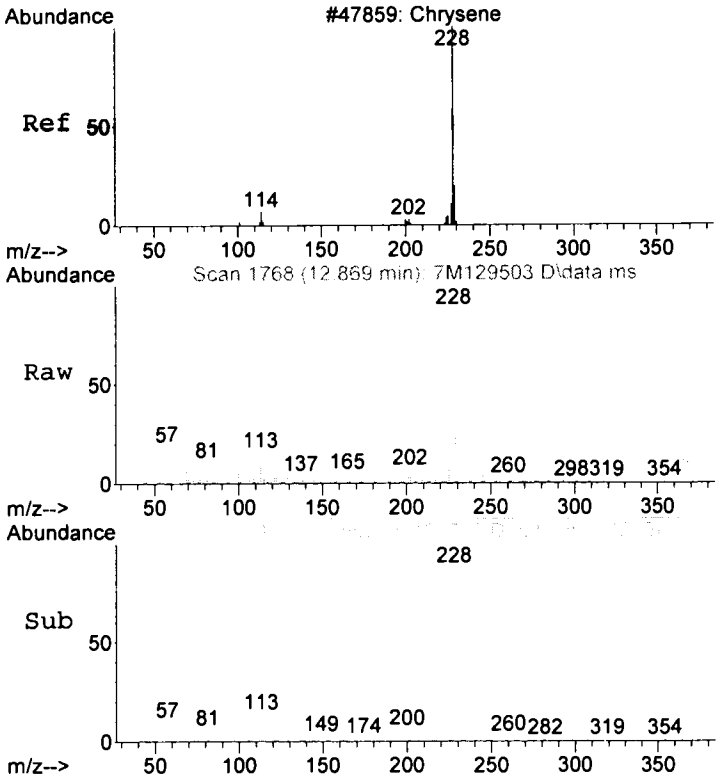


#100
Benzo[a]anthracene
Concen: 2.64 ng m
RT: 12.822 min Scan# 1760
Delta R.T. 0.012 min
Lab File: 7M129503.D
Acq: 24 Jun 2023 3:12

Tgt Ion:228 Resp: 24219

Ion	Ratio	Lower	Upper
228	100		
229	34.4	0.0	59.5
226	34.5	0.0	66.0

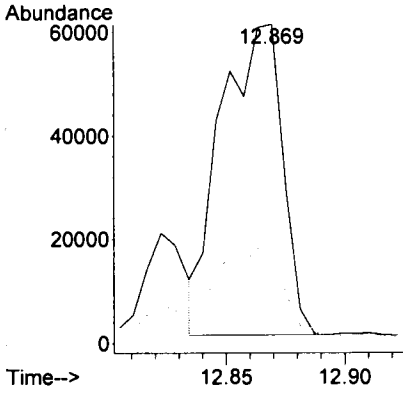


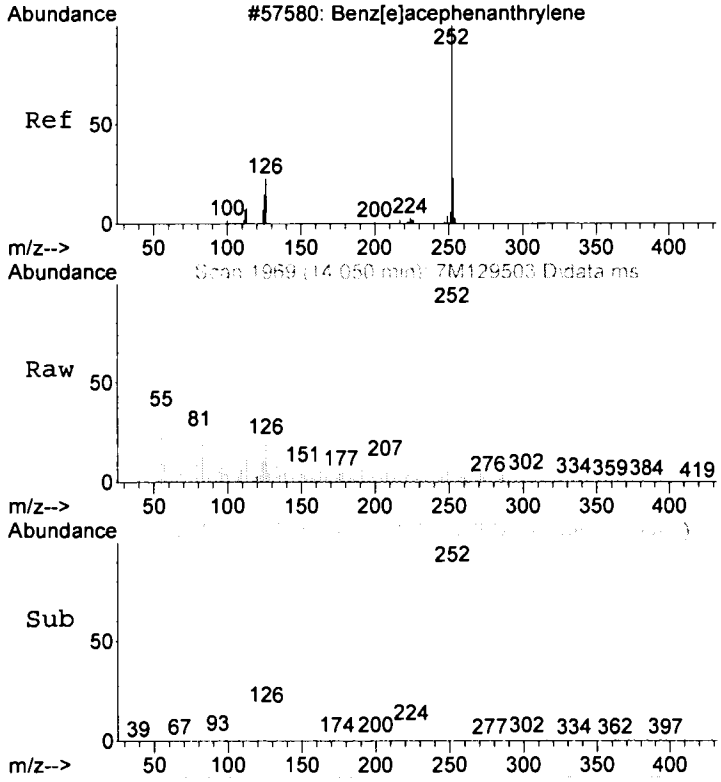


#101
Chrysene
Concen: 13.45 ng m
RT: 12.869 min Scan# 1768
Delta R.T. 0.018 min
Lab File: 7M129503.D
Acq: 24 Jun 2023 3:12

Tgt Ion:228 Resp: 108074

Ion	Ratio	Lower	Upper
228	100		
226	31.1	9.5	49.5
229	26.0	0.0	60.2

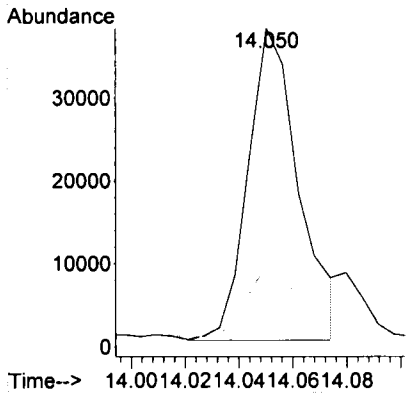




#105
Benzo[b]fluoranthene
Concen: 6.67 ng m
RT: 14.050 min Scan# 1969
Delta R.T. -0.006 min
Lab File: 7M129503.D
Acq: 24 Jun 2023 3:12

Tgt Ion:252 Resp: 49241

Ion	Ratio	Lower	Upper
252	100		
253	25.4	0.0	62.3
125	19.9	0.0	58.4



Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38586-005
Client Id: OutbuildingSump
Data File: 10M97641.D
Analysis Date: 06/20/23 16:42
Date Rec/Extracted: 06/14/23-06/19/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U
207-08-9	Benzo[k]fluoranthene	2.0	U				

Worksheet #: 696345

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

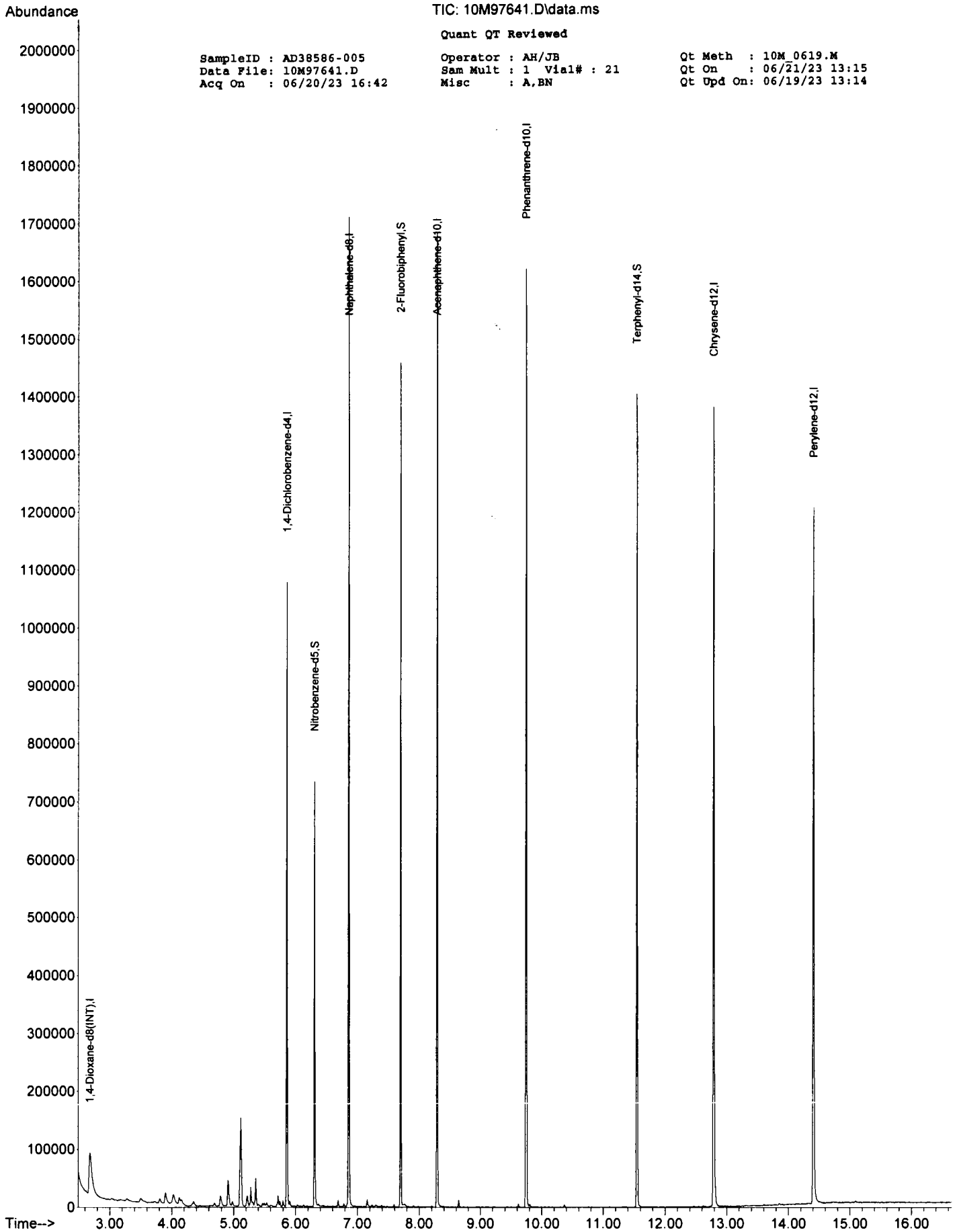
Quantitation Report (QT Reviewed)

SampleID : AD38586-005 Operator : AH/JB Qt Meth : 10M_0619.M
Data File: 10M97641.D Sam Mult : 1 Vial# : 21 Qt On : 06/21/23 13:15
Acq On : 06/20/23 16:42 Misc : A,BN Qt Upd On: 06/19/23 13:14

Data Path : G:\GcMsData\2023\GCMS_10\Data\06-2023
Qt Path : G:\GCMSDATA\2023\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.679	96	94300	40.00	ng	-0.01
21) 1,4-Dichlorobenzene-d4	5.862	152	167527	40.00	ng	0.00
31) Naphthalene-d8	6.862	136	657658	40.00	ng	0.00
50) Acenaphthene-d10	8.285	164	363327	40.00	ng	0.00
77) Phenanthrene-d10	9.745	188	618552	40.00	ng	0.00
91) Chrysene-d12	12.788	240	502175	40.00	ng	0.00
103) Perylene-d12	14.409	264	481706	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	0.000	112	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
16) Phenol-d5	0.000	99	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
32) Nitrobenzene-d5	6.306	128	91171	34.41	ng	0.00
Spiked Amount 50.000			Recovery =	68.82%		
55) 2-Fluorobiphenyl	7.697	172	393350	31.80	ng	0.00
Spiked Amount 50.000			Recovery =	63.60%		
80) 2,4,6-Tribromophenol	0.000	330	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
94) Terphenyl-d14	11.542	244	438016	45.30	ng	0.00
Spiked Amount 50.000			Recovery =	90.60%		
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M97641.D\data.ms
Quant QT Reviewed
SampleID : AD38586-005
Data File: 10M97641.D
Acq On : 06/20/23 16:42
Operator : AH/JB
Sam Mult : 1 Vial# : 21
Misc : A,BN
Qt Meth : 10M_0619.M
Qt On : 06/21/23 13:15
Qt Upd On: 06/19/23 13:14
1,4-Dioxane-d8(INT),I
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
2000000
1900000
1800000
1700000
1600000
1500000
1400000
1300000
1200000
1100000
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
Time-->
3.00
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
16.00

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38586-006
Client Id: TW-1
Data File: 10M97642.D
Analysis Date: 06/20/23 17:05
Date Rec/Extracted: 06/14/23-06/19/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	**206-44-0**	**Fluoranthene**	**2.0**	**2.3**
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	**Benzo[b]fluoranthene**	**2.0**	**2.0**	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	**129-00-0**	**Pyrene**	**2.0**	**2.3**
207-08-9	Benzo[k]fluoranthene	2.0	U				

Worksheet #: 696345 ***Total Target Concentration*** 6.6 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

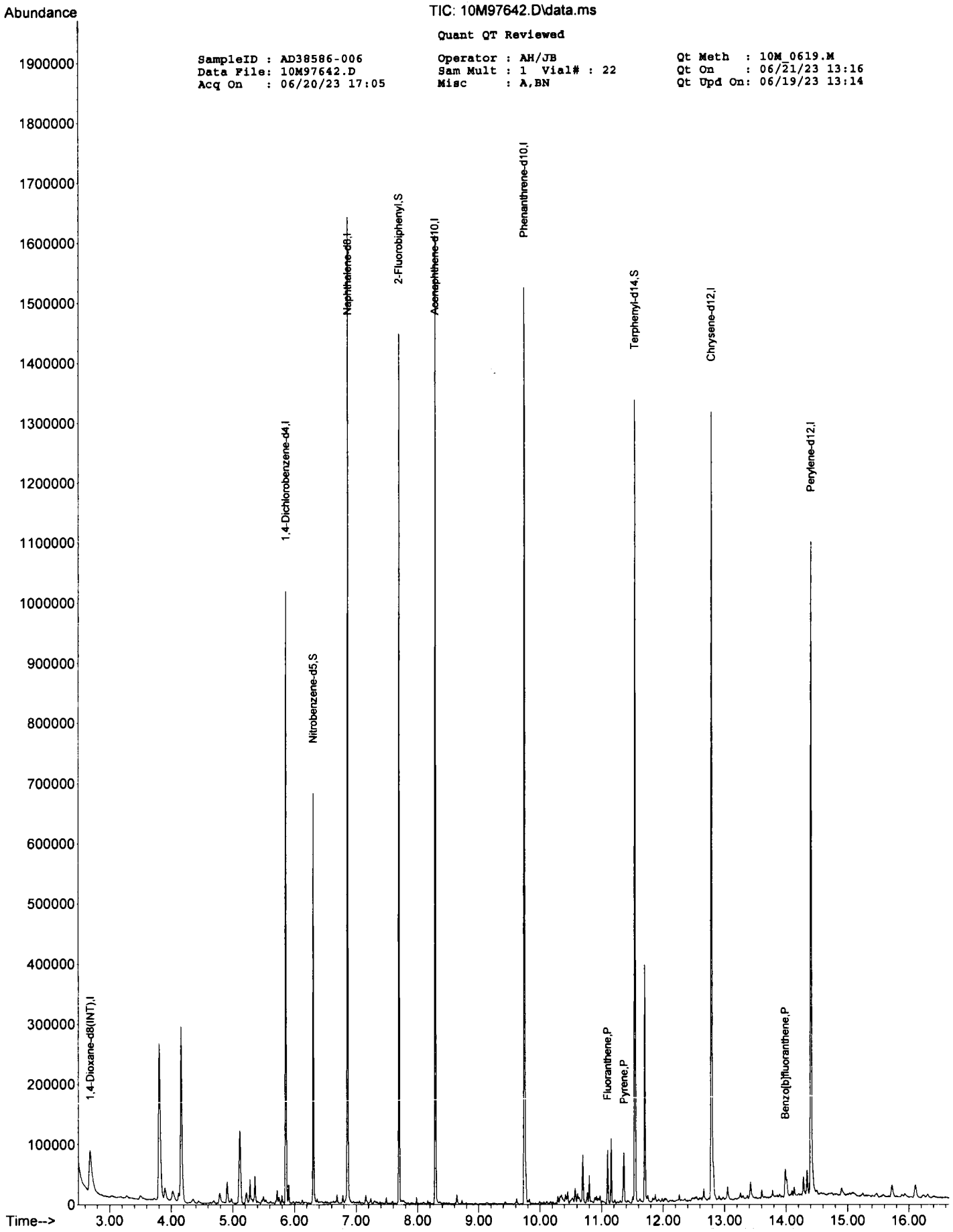
Quantitation Report (QT Reviewed)

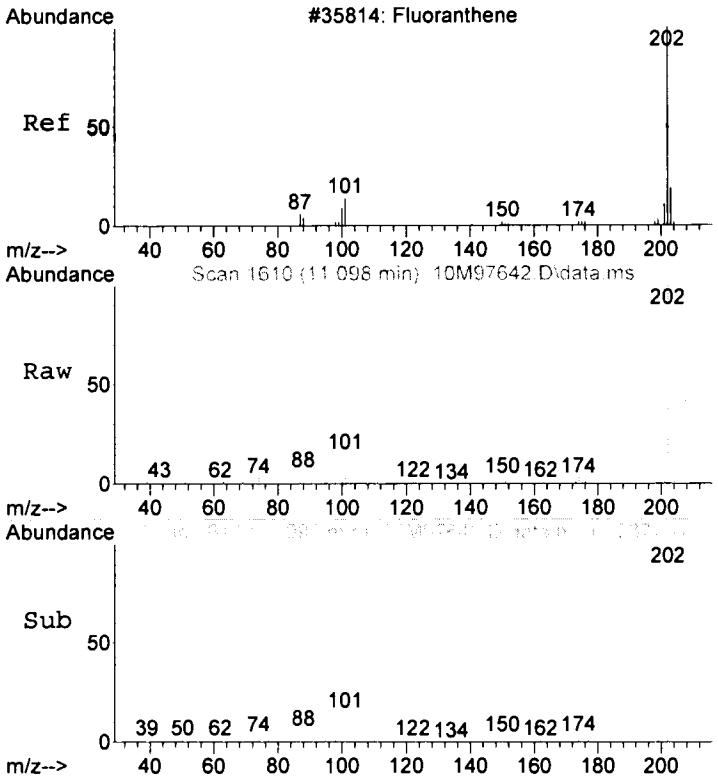
SampleID : AD38586-006 Operator : AH/JB Qt Meth : 10M_0619.M
Data File: 10M97642.D Sam Mult : 1 Vial# : 22 Qt On : 06/21/23 13:16
Acq On : 06/20/23 17:05 Misc : A,BN Qt Upd On: 06/19/23 13:14

Data Path : G:\GcMsData\2023\GCMS_10\Data\06-2023
Qt Path : G:\GCMSDATA\2023\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.685	96	89340	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.862	152	159442	40.00	ng	0.00
31) Naphthalene-d8	6.862	136	628570	40.00	ng	0.00
50) Acenaphthene-d10	8.285	164	345727	40.00	ng	0.00
77) Phenanthrene-d10	9.745	188	573585	40.00	ng	0.00
91) Chrysene-d12	12.788	240	469829	40.00	ng	0.00
103) Perylene-d12	14.409	264	448148	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	0.000	112	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
16) Phenol-d5	0.000	99	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
32) Nitrobenzene-d5	6.306	128	85160	33.62	ng	0.00
Spiked Amount 50.000			Recovery =	67.24%		
55) 2-Fluorobiphenyl	7.696	172	391972	33.30	ng	0.00
Spiked Amount 50.000			Recovery =	66.60%		
80) 2,4,6-Tribromophenol	0.000	330	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
94) Terphenyl-d14	11.542	244	403610	44.61	ng	0.00
Spiked Amount 50.000			Recovery =	89.22%		
Target Compounds						Qvalue
90) Fluoranthene	11.098	202	37926m	2.3091	ng	
92) Pyrene	11.366	202	37828m	2.3303	ng	
105) Benzo[b]fluoranthene	13.986	252	27162m	2.0176	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

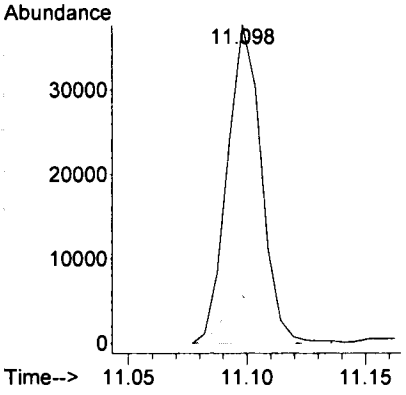

Abundance
TIC: 10M97642.D\data.ms
Quant QT Reviewed
SampleID : AD38586-006
Data File: 10M97642.D
Acq On : 06/20/23 17:05
Operator : AH/JB
Sam Mult : 1 Vial# : 22
Misc : A,BN
Qt Meth : 10M_0619.M
Qt On : 06/21/23 13:16
Qt Upd On: 06/19/23 13:14
1900000
1800000
1700000
1600000
1500000
1400000
1300000
1200000
1100000
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
1,4-Dioxane-d8(INT),I
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Phenanthrene-d10,I
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Chrysene-d12,I
Benzo(b)fluoranthene,P
Perylene-d12,I
Time-->
3.00
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
16.00

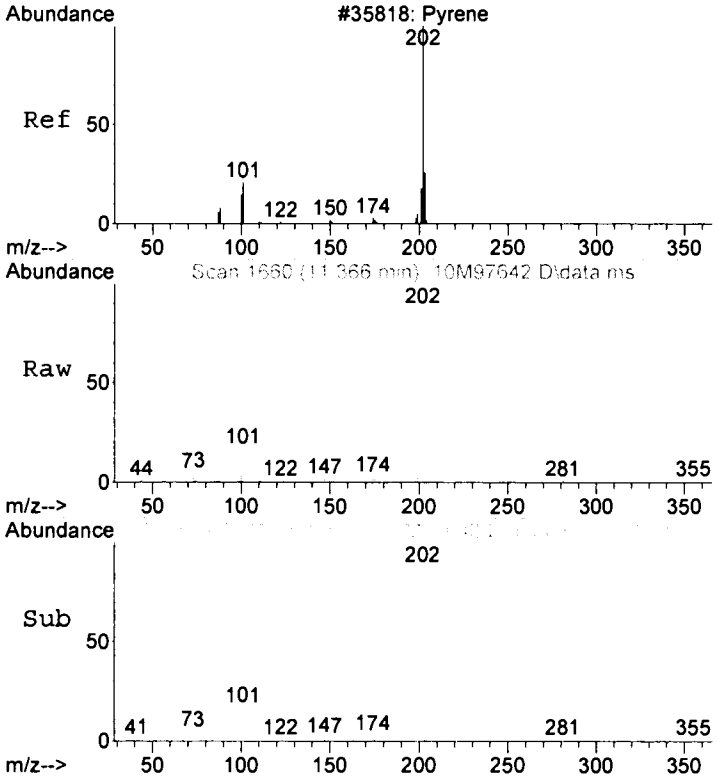


#90
Fluoranthene
Concen: 2.31 ng m
RT: 11.098 min Scan# 1610
Delta R.T. -0.005 min
Lab File: 10M97642.D
Acq: 20 Jun 2023 17:05

Tgt Ion:202 Resp: 37926

Ion	Ratio	Lower	Upper
202	100		
101	15.2	0.0	57.6

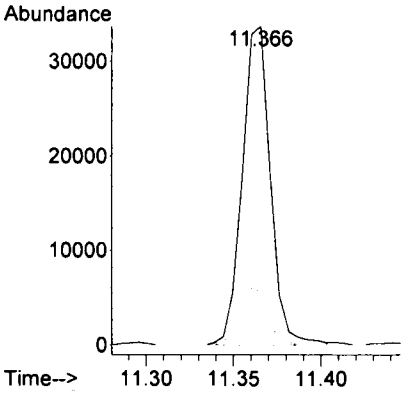


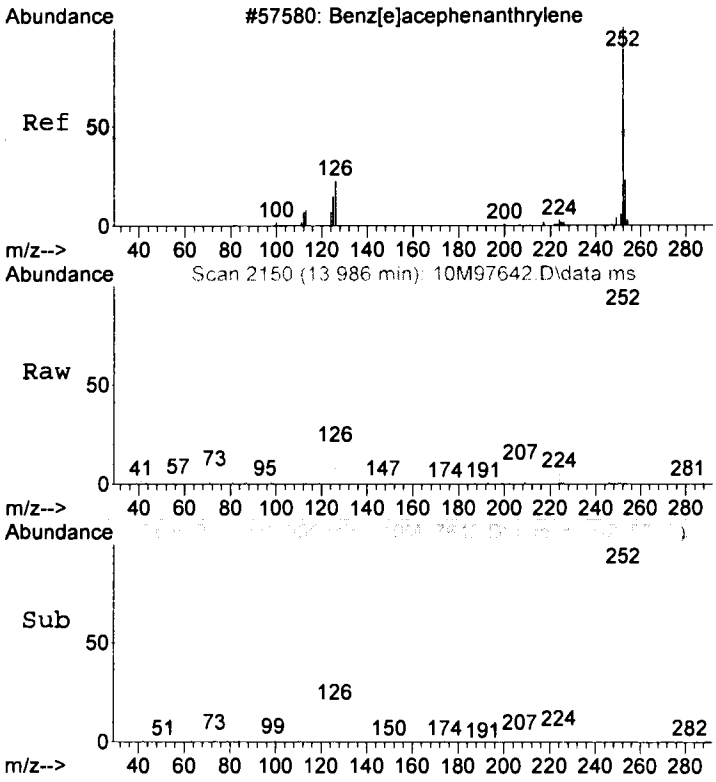


#92
Pyrene
Concen: 2.33 ng m
RT: 11.366 min Scan# 1660
Delta R.T. -0.004 min
Lab File: 10M97642.D
Acq: 20 Jun 2023 17:05

Tgt Ion:202 Resp: 37828

Ion	Ratio	Lower	Upper
202	100		
101	16.6	0.0	62.2
100	11.5	0.0	57.8

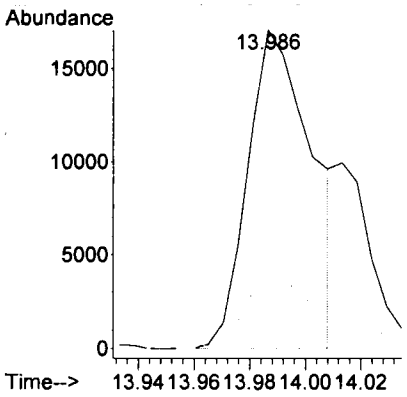




#105
Benzo[b]fluoranthene
Concen: 2.02 ng m
RT: 13.986 min Scan# 2150
Delta R.T. -0.005 min
Lab File: 10M97642.D
Acq: 20 Jun 2023 17:05

Tgt Ion:252 Resp: 27162

Ion	Ratio	Lower	Upper
252	100		
253	23.7	0.0	122.3
125	12.8	0.0	118.4



Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38586-007(MS:AD38
Client Id: HB-1 +QA\QC MS
Data File: 7M129516.D
Analysis Date: 06/26/23 09:57
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 82

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.041	0.75	50-32-8	Benzo[a]pyrene	0.041	1.1
95-94-3	1,2,4,5-Tetrachlorobenzen	0.041	0.82	205-99-2	Benzo[b]fluoranthene	0.041	1.3
123-91-1	1,4-Dioxane	0.012	0.24	191-24-2	Benzo[g,h,i]perylene	0.041	0.87
58-90-2	2,3,4,6-Tetrachlorophenol	0.041	1.4	207-08-9	Benzo[k]fluoranthene	0.041	1.0
95-95-4	2,4,5-Trichlorophenol	0.041	1.6	111-91-1	bis(2-Chloroethoxy)metha	0.041	0.78
88-06-2	2,4,6-Trichlorophenol	0.041	1.6	111-44-4	bis(2-Chloroethyl)ether	0.013	0.77
120-83-2	2,4-Dichlorophenol	0.013	1.6	108-60-1	bis(2-chloroisopropyl)ethe	0.041	0.51
105-67-9	2,4-Dimethylphenol	0.023	1.4	117-81-7	bis(2-Ethylhexyl)phthalate	0.37	0.99
51-28-5	2,4-Dinitrophenol	0.20	0.44	85-68-7	Butylbenzylphthalate	0.041	0.93
121-14-2	2,4-Dinitrotoluene	0.041	0.85	105-60-2	Caprolactam	0.041	0.74
606-20-2	2,6-Dinitrotoluene	0.041	0.87	86-74-8	Carbazole	0.041	0.89
91-58-7	2-Chloronaphthalene	0.041	0.86	218-01-9	Chrysene	0.041	1.3
95-57-8	2-Chlorophenol	0.041	1.6	53-70-3	Dibenzo[a,h]anthracene	0.041	0.84
91-57-6	2-Methylnaphthalene	0.041	0.88	132-64-9	Dibenzofuran	0.011	0.92
95-48-7	2-Methylphenol	0.013	1.4	84-66-2	Diethylphthalate	0.72	0.87
88-74-4	2-Nitroaniline	0.041	0.77	131-11-3	Dimethylphthalate	0.041	0.86
88-75-5	2-Nitrophenol	0.041	1.5	84-74-2	Di-n-butylphthalate	0.97	0.92 J
106-44-5	3&4-Methylphenol	0.013	1.5	117-84-0	Di-n-octylphthalate	0.041	0.93
91-94-1	3,3'-Dichlorobenzidine	0.041	0.046	206-44-0	Fluoranthene	0.041	1.3
99-09-2	3-Nitroaniline	0.041	0.60	86-73-7	Fluorene	0.041	0.86
534-52-1	4,6-Dinitro-2-methylpheno	0.20	0.63	118-74-1	Hexachlorobenzene	0.041	0.77
101-55-3	4-Bromophenyl-phenyleth	0.041	0.82	87-68-3	Hexachlorobutadiene	0.041	0.78
59-50-7	4-Chloro-3-methylphenol	0.041	1.6	77-47-4	Hexachlorocyclopentadie	0.14	0.041 J
106-47-8	4-Chloroaniline	0.014	0.40	67-72-1	Hexachloroethane	0.041	0.70
7005-72-3	4-Chlorophenyl-phenyleth	0.041	0.82	193-39-5	Indeno[1,2,3-cd]pyrene	0.041	0.93
100-01-6	4-Nitroaniline	0.041	0.56	78-59-1	Isophorone	0.041	0.69
100-02-7	4-Nitrophenol	0.041	1.6	91-20-3	Naphthalene	0.010	0.80
83-32-9	Acenaphthene	0.041	0.87	98-95-3	Nitrobenzene	0.041	0.81
208-96-8	Acenaphthylene	0.041	0.93	621-64-7	N-Nitroso-di-n-propylamin	0.010	0.73
98-86-2	Acetophenone	0.041	0.77	86-30-6	n-Nitrosodiphenylamine	0.041	0.75
120-12-7	Anthracene	0.041	0.88	87-86-5	Pentachlorophenol	0.20	1.3
1912-24-9	Atrazine	0.041	0.73	85-01-8	Phenanthrene	0.041	1.2
100-52-7	Benzaldehyde	0.041	0.53	108-95-2	Phenol	0.041	1.5
56-55-3	Benzo[a]anthracene	0.041	1.1	129-00-0	Pyrene	0.041	1.3

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

SampleID : AD38586-007(MS:AD38 Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129516.D Sam Mult : 1 Vial# : 6 Qt On : 06/26/23 10:29
Acq On : 06/26/23 09:57 Misc : S,BNA Qt Upd On: 06/19/23 13:33

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-26-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.623	96	47843	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.831	152	83703	40.00	ng	0.00
31) Naphthalene-d8	6.841	136	320192	40.00	ng	0.00
50) Acenaphthene-d10	8.281	164	171700	40.00	ng	0.00
77) Phenanthrene-d10	9.755	188	276265	40.00	ng	0.00
91) Chrysene-d12	12.846	240	200273	40.00	ng	0.02
103) Perylene-d12	14.526	264	196834	40.00	ng	0.04
System Monitoring Compounds						
11) 2-Fluorophenol	4.667	112	215872	74.64	ng	0.02
Spiked Amount 100.000			Recovery = 74.64%			
16) Phenol-d5	5.543	99	269358	78.84	ng	0.02
Spiked Amount 100.000			Recovery = 78.84%			
32) Nitrobenzene-d5	6.283	128	57622	38.94	ng	0.00
Spiked Amount 50.000			Recovery = 77.88%			
55) 2-Fluorobiphenyl	7.681	172	234579	41.88	ng	0.00
Spiked Amount 50.000			Recovery = 83.76%			
80) 2,4,6-Tribromophenol	9.033	330	45740	73.96	ng	0.01
Spiked Amount 100.000			Recovery = 73.96%			
94) Terphenyl-d14	11.577	244	183752	42.26	ng	0.02
Spiked Amount 50.000			Recovery = 84.52%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.664	88	14538	11.7553	ng	93
9) Pyridine	3.140	79	64148m	27.7344	ng	
10) N-Nitrosodimethylamine	3.075	74	61884m	33.5856	ng	
12) Benzaldehyde	5.460	77	62438m	26.2142	ng	
13) Aniline	5.554	93	55649m	13.4379	ng	
14) Pentachloroethane	5.590	117	38279	36.4555	ng	85
15) bis(2-Chloroethyl)ether	5.613	93	108666m	38.1076	ng	
17) Phenol	5.554	94	280778m	72.1214	ng	
18) 2-Chlorophenol	5.660	128	225390m	76.9564	ng	
19) N-Decane	5.690	57	78581m	28.2997	ng	
20) 1,3-Dichlorobenzene	5.784	146	110089m	36.6640	ng	
22) 1,4-Dichlorobenzene	5.842	146	112949m	35.4118	ng	
23) 1,2-Dichlorobenzene	5.966	146	109183m	35.9168	ng	
24) Benzyl alcohol	5.948	108	82896m	38.4585	ng	
25) bis(2-chloroisopropyl)...	6.054	45	89739m	25.2566	ng	
26) 2-Methylphenol	6.048	108	202609m	70.2484	ng	
27) Acetophenone	6.160	105	158736m	37.8942	ng	
28) Hexachloroethane	6.236	117	44871m	34.2633	ng	
29) N-Nitroso-di-n-propyla...	6.160	70	75021m	36.1243	ng	
30) 3&4-Methylphenol	6.171	108	201925m	71.3934	ng	
33) Nitrobenzene	6.295	77	122729m	39.9778	ng	
34) Isophorone	6.483	82	198954m	33.8541	ng	
35) 2-Nitrophenol	6.547	139	123580m	74.2001	ng	
36) 2,4-Dimethylphenol	6.577	107	212119m	71.2482	ng	
37) Benzoic Acid	6.694	105	197068m	81.2034	ng	
38) bis(2-Chloroethoxy)met...	6.641	93	131223m	38.1485	ng	
39) 2,4-Dichlorophenol	6.735	162	184708m	76.8376	ng	
40) 1,2,4-Trichlorobenzene	6.794	180	95913	38.8168	ng	98
41) Naphthalene	6.859	128	337919m	39.4636	ng	
42) 4-Chloroaniline	6.894	127	63380m	19.6013	ng	
43) Hexachlorobutadiene	6.935	225	48553	38.3036	ng	95
44) Caprolactam	7.194	113	40456m	36.6021	ng	
45) 4-Chloro-3-methylphenol	7.270	107	207373m	77.5374	ng	
46) 2-Methylnaphthalene	7.394	142	240268m	43.2536	ng	
47) 1-Methylnaphthalene	7.476	142	224832m	43.2661	ng	
48) Methylnaphthalenes (To...	7.394	142	465955m	86.5946	ng	
49) 1,1'-Biphenyl	7.770	154	254395m	36.8744	ng	
51) 1,2,4,5-Tetrachloroben...	7.529	216	88101	40.4282	ng	98
52) Hexachlorocyclopentadiene	7.511	237	1033	2.0277	ng	92
53) 2,4,6-Trichlorophenol	7.623	196	127098m	79.0867	ng	
54) 2,4,5-Trichlorophenol	7.658	196	132227m	78.3542	ng	
56) 2-Chloronaphthalene	7.793	162	202832m	42.2866	ng	
57) 1,4-Dimethylnaphthalene	8.075	156	153712m	41.2261	ng	
58) Dimethylnaphthalenes (...	8.075	156	153770m	41.2416	ng	
59) Diphenyl Ether	7.852	170	138591m	39.9406	ng	
60) 2-Nitroaniline	7.875	65	67454m	37.7009	ng	
61) Coumarin	8.063	146	81894m	41.5990	ng	
62) Acenaphthylene	8.157	152	311013m	45.9112	ng	
63) Dimethylphthalate	8.016	163	237967m	42.2550	ng	
64) 2,6-Dinitrotoluene	8.081	165	52785m	42.8929	ng	
65) Acenaphthene	8.310	153	196371m	42.6006	ng	

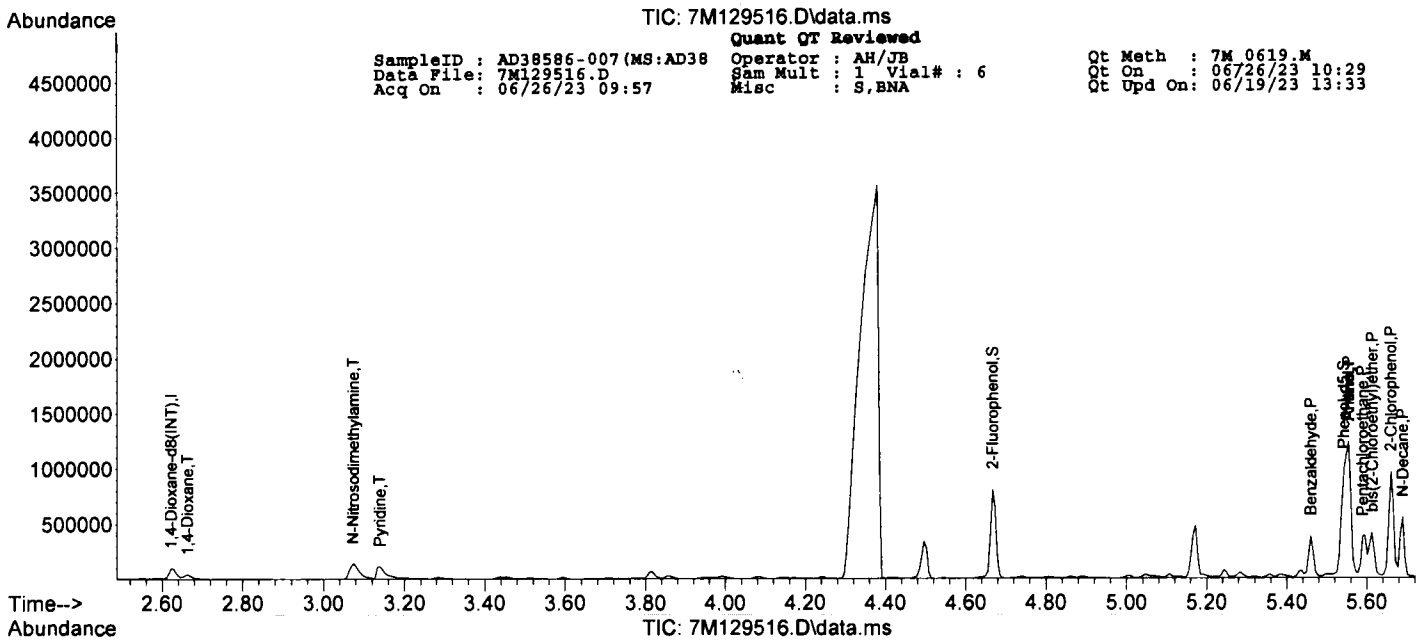
Quantitation Report (QT Reviewed)

SampleID : AD38586-007(MS:AD38 Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129516.D Sam Mult : 1 Vial# : 6 Qt On : 06/26/23 10:29
Acq On : 06/26/23 09:57 Misc : S,BNA Qt Upd On: 06/19/23 13:33

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-26-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.234	138	42591m	29.3686	ng	
67)	2,4-Dinitrophenol	8.334	184	14955m	21.7827	ng	
68)	Dibenzofuran	8.463	168	314475m	45.4550	ng	
69)	2,4-Dinitrotoluene	8.445	165	74760m	41.7892	ng	
70)	4-Nitrophenol	8.386	65	89167m	80.6937	ng	
71)	2,3,4,6-Tetrachlorophenol	8.580	232	88499m	68.2667	ng	
72)	Fluorene	8.792	166	232609m	42.1418	ng	
73)	4-Chlorophenyl-phenyle...	8.774	204	105448m	40.1305	ng	
74)	Diethylphthalate	8.651	149	236830m	42.9662	ng	
75)	4-Nitroaniline	8.804	138	43442m	27.3113	ng	
76)	Atrazine	9.432	200	60995m	35.9080	ng	
78)	4,6-Dinitro-2-methylph...	8.839	198	27964m	31.1843	ng	
79)	n-Nitrosodiphenylamine	8.892	169	168322m	37.0200	ng	
81)	1,2-Diphenylhydrazine	8.933	77	248463m	44.3808	ng	
82)	4-Bromophenyl-phenylether	9.274	248	56747	40.1429	ng	88
83)	Hexachlorobenzene	9.344	284	56226	37.7389	ng	73
84)	N-Octadecane	9.603	57	158439m	59.9892	ng	
85)	Pentachlorophenol	9.550	266	54091m	63.8666	ng	
86)	Phenanthrene	9.785	178	449990m	61.2581	ng	
87)	Anthracene	9.838	178	324434m	43.3769	ng	
88)	Carbazole	10.014	167	319375m	43.5676	ng	
89)	Di-n-butylphthalate	10.384	149	415374m	45.4522	ng	
90)	Fluoranthene	11.130	202	505184m	62.5539	ng	
92)	Pyrene	11.401	202	470917m	63.0863	ng	
97)	Butylbenzylphthalate	12.164	149	168137m	45.8424	ng	
99)	3,3'-Dichlorobenzidine	12.805	252	5367m	2.2397	ng	
100)	Benzo[a]anthracene	12.834	228	347497m	52.7172	ng	
101)	Chrysene	12.881	228	372975m	64.5680	ng	
102)	bis(2-Ethylhexyl)phtha...	12.864	149	224630m	48.6281	ng	
104)	Di-n-octylphthalate	13.628	149	387705m	45.9668	ng	
105)	Benzo[b]fluoranthene	14.092	252	395928m	62.6774	ng	
106)	Benzo[k]fluoranthene	14.121	252	291737m	50.1828	ng	
107)	Benzo[a]pyrene	14.462	252	300392m	55.1817	ng	
108)	Indeno[1,2,3-cd]pyrene	15.942	276	290187m	45.9434	ng	
109)	Dibenzo[a,h]anthracene	15.954	278	215906m	41.1485	ng	
110)	Benzo[g,h,i]perylene	16.348	276	221845m	42.6044	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed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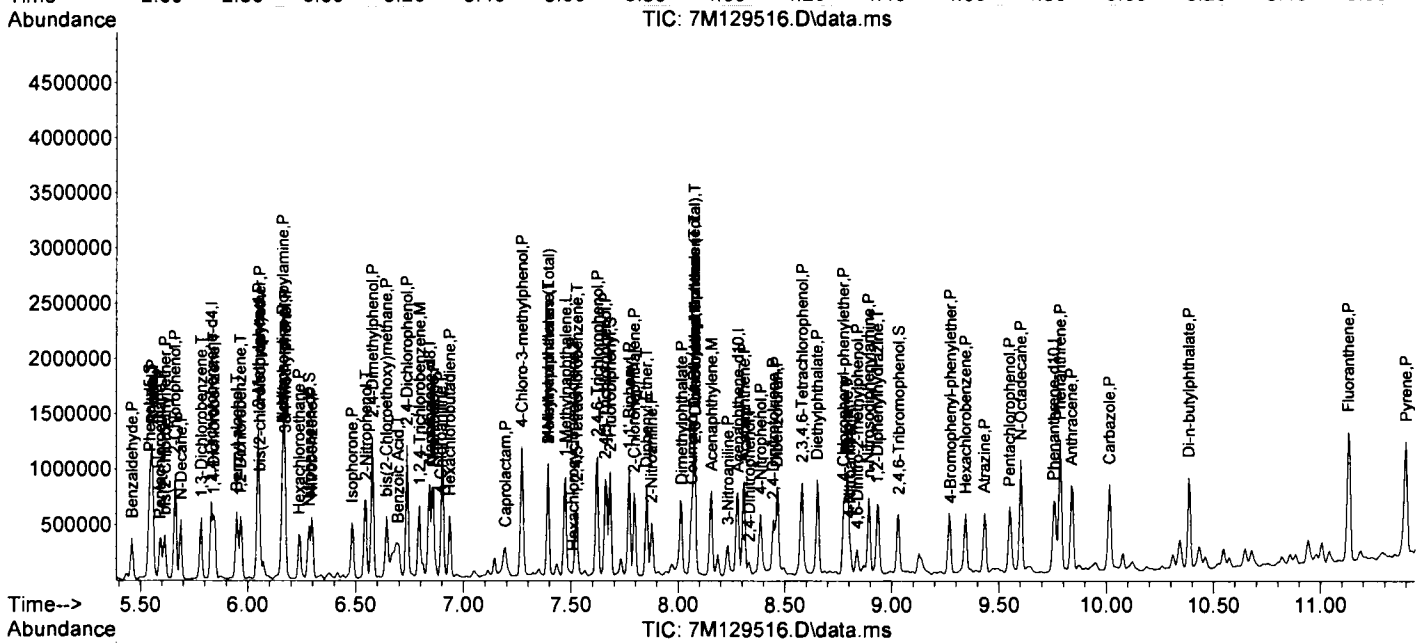
Quant QT Reviewed
SampleID : AD38586-007(MS:AD38
Data File: 7M129516.D
Acq On : 06/26/23 09:57
Operator : AH/JB
Sam Mult : 1 Vial# : 6
Misc : S,BNA
Qt Meth : 7M_0619.M
Qt On : 06/26/23 10:29
Qt Upd On: 06/19/23 13:33
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->


Abundance
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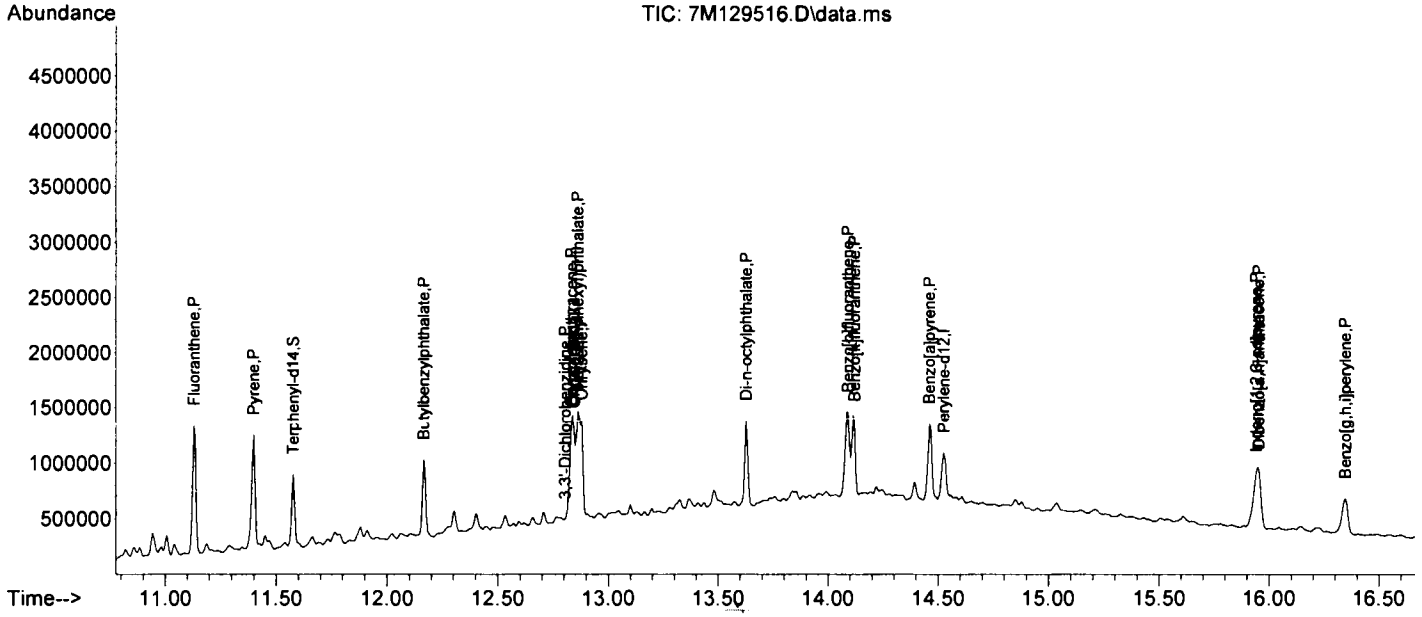
Isophorone,P
Caprolactam,P
4-Chloro-3-methylphenol,P
Hexachlorocyclopentadiene,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Pyrene,P
2,4,6-Tribromophenol,S
Time-->


Abundance
TIC: 7M129516.D\data.ms
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38586-008(MSD:AD
Client Id: HB-1 +QA\QC MSD
Data File: 7M129489.D
Analysis Date: 06/23/23 21:45
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.040	0.74	50-32-8	Benzo[a]pyrene	0.040	1.2
95-94-3	1,2,4,5-Tetrachlorobenzen	0.040	0.79	205-99-2	Benzo[b]fluoranthene	0.040	1.4
123-91-1	1,4-Dioxane	0.011	0.28	191-24-2	Benzo[g,h,i]perylene	0.040	0.83
58-90-2	2,3,4,6-Tetrachlorophenol	0.040	1.5	207-08-9	Benzo[k]fluoranthene	0.040	1.1
95-95-4	2,4,5-Trichlorophenol	0.040	1.6	111-91-1	bis(2-Chloroethoxy)metha	0.040	0.79
88-06-2	2,4,6-Trichlorophenol	0.040	1.7	111-44-4	bis(2-Chloroethyl)ether	0.013	0.71
120-83-2	2,4-Dichlorophenol	0.013	1.6	108-60-1	bis(2-chloroisopropyl)ethe	0.040	0.50
105-67-9	2,4-Dimethylphenol	0.022	1.5	117-81-7	bis(2-Ethylhexyl)phthalate	0.37	0.91
51-28-5	2,4-Dinitrophenol	0.20	0.14 J	85-68-7	Butylbenzylphthalate	0.040	0.89
121-14-2	2,4-Dinitrotoluene	0.040	0.74	105-60-2	Caprolactam	0.040	0.71
606-20-2	2,6-Dinitrotoluene	0.040	0.77	86-74-8	Carbazole	0.040	0.86
91-58-7	2-Chloronaphthalene	0.040	0.83	218-01-9	Chrysene	0.040	1.4
95-57-8	2-Chlorophenol	0.040	1.5	53-70-3	Dibenzo[a,h]anthracene	0.040	0.78
91-57-6	2-Methylnaphthalene	0.040	0.92	132-64-9	Dibenzofuran	0.010	0.93
95-48-7	2-Methylphenol	0.012	1.4	84-66-2	Diethylphthalate	0.71	0.85
88-74-4	2-Nitroaniline	0.040	0.73	131-11-3	Dimethylphthalate	0.040	0.84
88-75-5	2-Nitrophenol	0.040	1.3	84-74-2	Di-n-butylphthalate	0.96	0.91 J
106-44-5	3&4-Methylphenol	0.013	1.5	117-84-0	Di-n-octylphthalate	0.040	0.91
91-94-1	3,3'-Dichlorobenzidine	0.040	0.087	206-44-0	Fluoranthene	0.040	1.5
99-09-2	3-Nitroaniline	0.040	0.64	86-73-7	Fluorene	0.040	0.86
534-52-1	4,6-Dinitro-2-methylpheno	0.20	0.21	118-74-1	Hexachlorobenzene	0.040	0.81
101-55-3	4-Bromophenyl-phenyleth	0.040	0.85	87-68-3	Hexachlorobutadiene	0.040	0.84
59-50-7	4-Chloro-3-methylphenol	0.040	1.6	77-47-4	Hexachlorocyclopentadie	0.13	0.035 J
106-47-8	4-Chloroaniline	0.014	0.45	67-72-1	Hexachloroethane	0.040	0.63
7005-72-3	4-Chlorophenyl-phenyleth	0.040	0.82	193-39-5	Indeno[1,2,3-cd]pyrene	0.040	0.90
100-01-6	4-Nitroaniline	0.040	0.54	78-59-1	Isophorone	0.040	0.69
100-02-7	4-Nitrophenol	0.040	1.5	91-20-3	Naphthalene	0.010	0.84
83-32-9	Acenaphthene	0.040	0.85	98-95-3	Nitrobenzene	0.040	0.81
208-96-8	Acenaphthylene	0.040	0.97	621-64-7	N-Nitroso-di-n-propylamin	0.010	0.72
98-86-2	Acetophenone	0.040	0.72	86-30-6	n-Nitrosodiphenylamine	0.040	0.74
120-12-7	Anthracene	0.040	0.93	87-86-5	Pentachlorophenol	0.20	1.4
1912-24-9	Atrazine	0.040	0.72	85-01-8	Phenanthrene	0.040	1.5
100-52-7	Benzaldehyde	0.040	0.46	108-95-2	Phenol	0.040	1.4
56-55-3	Benzo[a]anthracene	0.040	1.2	129-00-0	Pyrene	0.040	1.5

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

SampleID : AD38586-008(MSD:AD3 Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129489.D Sam Mult : 1 Vial# : 28 Qt On : 06/25/23 09:08
Acq On : 06/23/23 21:45 Misc : S,BNA Qt Upd On: 06/19/23 13:33

Data Path : **G:\GcMsData\2023\GCMS_7\Data\06-2323**
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.628	96	74572	40.00	ng	0.01
21) 1,4-Dichlorobenzene-d4	5.830	152	120649	40.00	ng	0.00
31) Naphthalene-d8	6.835	136	447879	40.00	ng	0.00
50) Acenaphthene-d10	8.275	164	250267	40.00	ng	0.00
77) Phenanthrene-d10	9.755	188	404387	40.00	ng	0.00
91) Chrysene-d12	12.846	240	300578	40.00	ng	0.02
103) Perylene-d12	14.503	264	285622	40.00	ng	0.01
System Monitoring Compounds						
11) 2-Fluorophenol	4.667	112	327427	72.63	ng	0.02
Spiked Amount 100.000			Recovery = 72.63%			
16) Phenol-d5	5.542	99	398744	74.87	ng	0.02
Spiked Amount 100.000			Recovery = 74.87%			
32) Nitrobenzene-d5	6.283	128	85470	41.30	ng	0.00
Spiked Amount 50.000			Recovery = 82.60%			
55) 2-Fluorobiphenyl	7.675	172	342340m	41.93	ng	0.00
Spiked Amount 50.000			Recovery = 83.86%			
80) 2,4,6-Tribromophenol	9.027	330	75761m	83.69	ng	0.00
Spiked Amount 100.000			Recovery = 83.69%			
94) Terphenyl-d14	11.571	244	283344	43.42	ng	0.01
Spiked Amount 50.000			Recovery = 86.84%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.663	88	26484m	13.7390	ng	
9) Pyridine	3.139	79	106438m	29.5240	ng	
10) N-Nitrosodimethylamine	3.081	74	92269m	32.1272	ng	
12) Benzaldehyde	5.460	77	85340m	22.9870	ng	
13) Aniline	5.554	93	122334m	18.9524	ng	
14) Pentachloroethane	5.595	117	52006m	31.7759	ng	
15) bis(2-Chloroethyl)ether	5.613	93	156866m	35.2931	ng	
17) Phenol	5.554	94	410223m	67.6026	ng	
18) 2-Chlorophenol	5.660	128	334625m	73.3012	ng	
19) N-Decane	5.689	57	116284m	26.8674	ng	
20) 1,3-Dichlorobenzene	5.783	146	162998m	34.8274	ng	
22) 1,4-Dichlorobenzene	5.842	146	169644m	36.8995	ng	
23) 1,2-Dichlorobenzene	5.965	146	161900m	36.9493	ng	
24) Benzyl alcohol	5.948	108	120211m	38.6919	ng	
25) bis(2-chloroisopropyl)...	6.054	45	126409m	24.6825	ng	
26) 2-Methylphenol	6.048	108	297927m	71.6646	ng	
27) Acetophenone	6.159	105	216004m	35.7747	ng	
28) Hexachloroethane	6.236	117	59567m	31.5563	ng	
29) N-Nitroso-di-n-propyla...	6.159	70	107044m	35.7599	ng	
30) 3&4-Methylphenol	6.171	108	294500m	72.2388	ng	
33) Nitrobenzene	6.295	77	173230m	40.3408	ng	
34) Isophorone	6.483	82	282202m	34.3295	ng	
35) 2-Nitrophenol	6.541	139	145393m	62.4093	ng	
36) 2,4-Dimethylphenol	6.577	107	314414m	75.4998	ng	
37) Benzoic Acid	6.700	105	287404m	84.6643	ng	
38) bis(2-Chloroethoxy)met...	6.641	93	188333m	39.1421	ng	
39) 2,4-Dichlorophenol	6.735	162	273167m	81.2393	ng	
40) 1,2,4-Trichlorobenzene	6.788	180	141324m	40.8891	ng	
41) Naphthalene	6.853	128	500254m	41.7661	ng	
42) 4-Chloroaniline	6.894	127	101744m	22.4953	ng	
43) Hexachlorobutadiene	6.935	225	74609	42.0789	ng	97
44) Caprolactam	7.194	113	54565m	35.2928	ng	
45) 4-Chloro-3-methylphenol	7.264	107	294418m	78.6997	ng	
46) 2-Methylnaphthalene	7.387	142	356160m	45.8375	ng	
47) 1-Methylnaphthalene	7.470	142	318953m	43.8799	ng	
48) Methylnaphthalenes (To...	7.387	142	676687m	89.9051	ng	
49) 1,1'-Biphenyl	7.763	154	354887	36.7753	ng	94
51) 1,2,4,5-Tetrachloroben...	7.523	216	125008	39.3557	ng	99
52) Hexachlorocyclopentadiene	7.505	237	1277	1.7220	ng	94
53) 2,4,6-Trichlorophenol	7.617	196	193150m	82.4567	ng	
54) 2,4,5-Trichlorophenol	7.658	196	197130m	80.1423	ng	
56) 2-Chloronaphthalene	7.793	162	290111m	41.4952	ng	
57) 1,4-Dimethylnaphthalene	8.069	156	215936m	39.7334	ng	
59) Diphenyl Ether	7.846	170	194256m	38.4080	ng	
60) 2-Nitroaniline	7.875	65	95405m	36.5832	ng	
61) Coumarin	8.057	146	113627m	39.5986	ng	
62) Acenaphthylene	8.151	152	476041m	48.2115	ng	
63) Dimethylphthalate	8.010	163	344581m	41.9778	ng	
64) 2,6-Dinitrotoluene	8.075	165	68765m	38.3362	ng	
65) Acenaphthene	8.304	153	285405m	42.4783	ng	
66) 3-Nitroaniline	8.228	138	67843m	32.0950	ng	

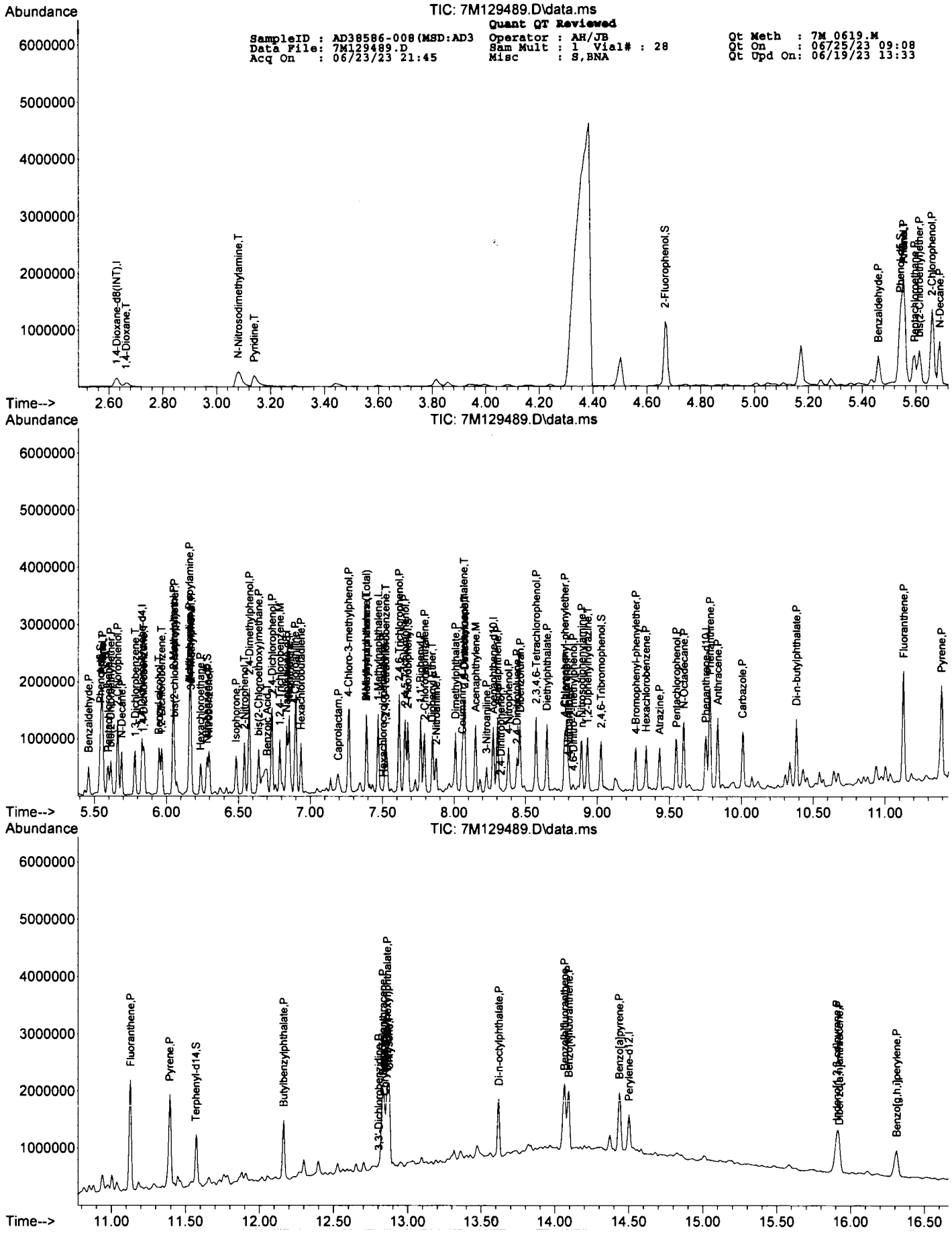
Quantitation Report (QT Reviewed)

SampleID : AD38586-008(MSD:AD3 Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129489.D Sam Mult : 1 Vial# : 28 Qt On : 06/25/23 09:08
Acq On : 06/23/23 21:45 **Misc : S,BNA** **Qt Upd On: 06/19/23 13:33**

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-2323\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67)	2,4-Dinitrophenol	8.327	184	6753m	6.7482	ng	
68)	Dibenzofuran	8.463	168	465003m	46.1125	ng	
69)	2,4-Dinitrotoluene	8.439	165	95491m	36.6205	ng	
70)	4-Nitrophenol	8.380	65	123709m	76.8074	ng	
71)	2,3,4,6-Tetrachlorophenol	8.574	232	140674m	74.4476	ng	
72)	Fluorene	8.786	166	343039m	42.6380	ng	
73)	4-Chlorophenyl-phenyle...	8.774	204	156217m	40.7879	ng	
74)	Diethylphthalate	8.651	149	339898m	42.3063	ng	
75)	4-Nitroaniline	8.803	138	62798m	27.0860	ng	
76)	Atrazine	9.432	200	89316m	36.0739	ng	
78)	4,6-Dinitro-2-methylph...	8.833	198	13721m	10.4533	ng	
79)	n-Nitrosodiphenylamine	8.892	169	246894m	37.0966	ng	
81)	1,2-Diphenylhydrazine	8.933	77	338354m	41.2889	ng	
82)	4-Bromophenyl-phenylether	9.268	248	87611m	42.3403	ng	
83)	Hexachlorobenzene	9.338	284	88490m	40.5765	ng	
84)	N-Octadecane	9.602	57	210243m	54.3827	ng	
85)	Pentachlorophenol	9.550	266	89116m	71.8841	ng	
86)	Phenanthrene	9.785	178	777201m	72.2808	ng	
87)	Anthracene	9.838	178	507696m	46.3729	ng	
88)	Carbazole	10.008	167	457536m	42.6400	ng	
89)	Di-n-butylphthalate	10.384	149	604282m	45.1735	ng	
90)	Fluoranthene	11.130	202	876734m	74.1654	ng	
92)	Pyrene	11.395	202	825724m	73.7040	ng	
97)	Butylbenzylphthalate	12.164	149	244033m	44.3321	ng	
99)	3,3'-Dichlorobenzidine	12.805	252	15501m	4.3101	ng	
100)	Benzo[a]anthracene	12.834	228	576115m	58.2339	ng	
101)	Chrysene	12.875	228	586368m	67.6353	ng	
102)	bis(2-Ethylhexyl)phtha...	12.863	149	314371m	45.3448	ng	
104)	Di-n-octylphthalate	13.621	149	556596m	45.4770	ng	
105)	Benzo[b]fluoranthene	14.068	252	622051m	67.8624	ng	
106)	Benzo[k]fluoranthene	14.097	252	449322m	53.2635	ng	
107)	Benzo[a]pyrene	14.438	252	464554m	58.8100	ng	
108)	Indeno[1,2,3-cd]pyrene	15.907	276	411022m	44.8454	ng	
109)	Dibenzo[a,h]anthracene	15.925	278	296784m	38.9796	ng	
110)	Benzo[g,h,i]perylene	16.312	276	313840m	41.5357	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 7M129489.D\data.ms
Quant QT Reviewed
SampleID : AD38586-008(MSD:AD3
Data File: 7M129489.D
Acq On : 06/23/23 21:45
Operator : AH/JB
Sam Mult : 1 Vial# : 28
Misc : S,BNA
Qt Meth : 7M_0619.M
Qt On : 06/25/23 09:08
Qt Upd On: 06/19/23 13:33
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->
Abundance
TIC: 7M129489.D\data.ms
Benzaldehyde,P
Caprolactam,P
4-Chloro-3-methylphenol,P
Dimethylphthalate,P
Acenaphthylene,M
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Pyrene,P
Time-->
Abundance
TIC: 7M129489.D\data.ms
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

GC/MS Base Neutral/Acid Extractable Data
Standards Data

3061429 0368

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M129292.D	CAL BNA@50PPM	06/19/23 12:21	2	7M129284.D	CAL BNA@2PPM	06/19/23 09:10
3	7M129290.D	CAL BNA@10PPM	06/19/23 11:34	4	7M129289.D	CAL BNA@20PPM	06/19/23 11:10
5	7M129293.D	CAL BNA@80PPM	06/19/23 13:08	6	7M129287.D	CAL BNA@120PPM	06/19/23 10:23
7	7M129286.D	CAL BNA@160PPM	06/19/23 10:00	8	7M129285.D	CAL BNA@196PPM	06/19/23 09:36
9	7M129291.D	CAL BNA@0.5PPM	06/19/23 11:57				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1.4-Dioxane	1	0	Avg	0.9928	1.0740	0.9963	1.0502	1.0440	1.0151	1.0198	1.0675	1.0458	1.03	2.66	0.999	0.999	2.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	1.8698	1.7163	1.7971	1.9882	2.0633	1.9724	1.9857	2.0769	-----	1.93	3.12	0.999	0.999	6.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.4717	1.5609	1.5125	1.5468	1.5922	1.5158	1.5096	1.6142	-----	1.54	3.07	0.998	0.998	3.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.3015	2.5048	2.3634	2.5024	2.5215	2.3714	2.3546	2.4241	-----	2.42	4.64	0.999	0.999	3.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	1.9767	2.2143	2.1104	2.1774	1.9878	1.9297	1.8771	1.6575	-----	1.99	5.45	0.994	0.999	9.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	3.3993	3.8275	3.6949	3.8213	3.4438	3.2696	3.1223	2.7368	3.8449	3.46	5.55	0.987	0.998	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.8338	1.0482	0.9068	0.9328	0.8649	0.8282	0.8126	0.7954	-----	0.878	5.59	0.999	1.00	9.5	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	2.2419	2.6542	2.4858	2.5511	2.3041	2.1525	2.0934	2.2533	2.7201	2.38	5.61	0.997	0.998	9.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	2.7705	3.0285	2.9359	3.1204	2.9451	2.7222	2.6547	2.6747	-----	2.86	5.52	0.999	0.999	6.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.2178	3.5680	3.4738	3.6244	3.3369	3.0696	2.9302	2.8184	-----	3.25	5.53	0.995	1.00	9.2	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.3375	2.6986	2.5380	2.6402	2.4757	2.3082	2.2749	2.3159	-----	2.45	5.65	0.999	0.999	6.7	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	2.2366	2.8581	2.5481	2.5835	2.2443	2.1290	2.0274	1.9451	-----	2.32	5.69	0.996	1.00	13	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.3-Dichlorobenzene	1	0	Avg	2.4018	2.9329	2.6526	2.7503	2.4633	2.3429	2.2937	2.2455	-----	2.51	5.78	0.999	1.00	9.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.4-Dichlorobenzene	1	0	Avg	1.4823	1.6756	1.5270	1.6247	1.5420	1.4649	1.4557	1.4215	-----	1.52	5.84	0.999	1.00	5.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.2-Dichlorobenzene	1	0	Avg	1.4177	1.6312	1.4772	1.5602	1.4714	1.3834	1.3650	1.3152	-----	1.45	5.96	0.998	1.00	7.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	1.0098	1.0891	1.0147	1.0944	1.0513	0.9901	0.9785	1.0121	-----	1.03	5.94	0.999	0.999	4.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.6924	1.9946	1.7460	1.8579	1.7103	1.5743	1.5354	1.4724	-----	1.70	6.05	0.996	1.00	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.3437	1.4330	1.3766	1.4806	1.4146	1.2983	1.2974	1.3294	1.4307	1.38	6.03	0.999	0.999	4.7	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.9669	2.3673	2.1429	2.2398	1.9366	1.8011	1.7740	1.7855	-----	2.00	6.15	0.999	0.999	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.6135	0.6743	0.6096	0.6576	0.6321	0.6021	0.6026	0.6145	-----	0.626	6.24	1.00	1.00	4.3	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	0.9496	1.1742	1.0343	1.1001	0.9406	0.8658	0.8374	0.8714	1.1581	0.992	6.15	0.998	0.998	13	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.3091	1.5247	1.4385	1.5105	1.3056	1.2059	1.1690	1.1535	1.5473	1.35	6.15	0.995	0.999	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1789	0.2032	0.1739	0.1822	0.1902	0.1787	0.1818	0.1896	-----	0.185	6.28	0.999	0.999	5.0		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3748	0.4374	0.3824	0.3960	0.3858	0.3639	0.3597	0.3678	-----	0.384	6.29	0.999	0.999	6.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.7101	0.7868	0.7205	0.7459	0.7452	0.6936	0.7077	0.7631	-----	0.734	6.48	0.996	0.998	4.3	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.2037	0.2077	0.1993	0.2125	0.2194	0.2053	0.2050	0.2113	-----	0.208	6.54	0.999	0.999	3.0	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2.4-Dimethylphenol	1	0	Avg	0.3632	0.3854	0.3706	0.3854	0.3762	0.3482	0.3478	0.3635	0.4065	0.372	6.56	0.999	0.999	5.1	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Avg	0.2942	-----	0.2056	0.2882	0.3377	0.3244	0.3320	0.3398	-----	0.303	6.65	0.999	0.999	16		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.4222	0.4798	0.4306	0.4474	0.4315	0.4061	0.4046	0.4152	-----	0.430	6.64	0.999	0.999	5.8	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2.4-Dichlorophenol	1	0	Avg	0.2963	0.3185	0.2959	0.3190	0.3093	0.2914	0.2881	0.2907	0.2933	0.300	6.72	0.999	1.00	4.0	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1.2.4-Trichlorobenzen	1	0	Avg	0.2995	0.3352	0.3063	0.3226	0.3123	0.2972	0.2956	0.3004	-----	0.309	6.79	1.00	1.00	4.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	1.0500	1.1922	1.0597	1.0859	1.0560	0.9743	0.9782	0.9562	1.2744	1.07	6.85	0.999	1.00	9.8	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.4253	0.4527	0.4302	0.4608	0.3662	0.3889	0.3721	0.3148	0.4241	0.404	6.89	0.988	0.997	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1533	0.1632	0.1520	0.1608	0.1629	0.1566	0.1564	0.1612	-----	0.158	6.94	0.999	0.999	2.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.1320	0.1266	0.1284	0.1379	0.1437	0.1327	0.1456	0.1573	-----	0.138	7.18	0.992	0.998	7.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.3295	0.3454	0.3233	0.3460	0.3472	0.3236	0.3201	0.3374	-----	0.334	7.26	0.998	0.998	3.4	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.6801	0.7537	0.6919	0.7412	0.7069	0.6626	0.6580	0.6567	-----	0.694	7.39	0.999	1.00	5.4	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6403	0.7164	0.6532	0.6887	0.6553	0.6154	0.6055	0.6182	-----	0.649	7.47	0.999	0.999	5.9	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Avg	0.6603	0.7363	0.6737	0.7160	0.6829	0.6388	0.6319	0.6374	-----	0.672	7.39	0.999	0.999	5.7		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1.1'-Biphenyl	1	0	Avg	0.8379	0.9694	0.8765	0.9169	0.8597	0.8076	0.8087	0.8178	-----	0.862	7.77	0.999	0.999	6.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.2.4.5-Tetrachloroben	1	0	Avg	0.4916	0.5524	0.4988	0.5386	0.5095	0.4880	0.4949	0.4872	-----	0.508	7.52	1.00	1.00	4.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 6.69
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

3061429 0369

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M129292.D	CAL BNA@50PPM	06/19/23 12:21	2	7M129284.D	CAL BNA@2PPM	06/19/23 09:10
3	7M129290.D	CAL BNA@10PPM	06/19/23 11:34	4	7M129289.D	CAL BNA@20PPM	06/19/23 11:10
5	7M129293.D	CAL BNA@80PPM	06/19/23 13:08	6	7M129287.D	CAL BNA@120PPM	06/19/23 10:23
7	7M129286.D	CAL BNA@160PPM	06/19/23 10:00	8	7M129285.D	CAL BNA@196PPM	06/19/23 09:36
9	7M129291.D	CAL BNA@0.5PPM	06/19/23 11:57				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Qua	0.1591	0.0465	0.0814	0.1223	0.1632	0.1782	0.1920	0.2199	-----	0.145	7.51	0.983	0.999	40	0.05 a	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.3521	0.3828	0.4053	0.3829	0.3707	0.3584	0.3669	0.3756	-----	0.374	7.62	0.999	1.00	4.4	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.3794	0.3978	0.3762	0.4071	0.3998	0.3863	0.3941	0.4040	-----	0.393	7.65	0.999	1.00	2.9	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.2823	1.3809	1.2872	1.3907	1.3129	1.2649	1.2593	1.2600	-----	1.30	7.68	1.00	1.00	4.1		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.1099	1.2106	1.1609	1.2008	1.1103	1.0739	1.0440	1.0287	-----	1.12	7.79	0.999	1.00	6.1	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	0.8646	1.0466	0.9397	0.9692	0.8325	0.7969	0.7713	0.7278	-----	0.869	8.08	0.996	1.00	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	0.8646	1.0466	0.9397	0.9692	0.8325	0.7969	0.7713	0.7278	-----	0.869	8.08	0.995	1.00	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.7903	0.8969	0.8191	0.8665	0.8032	0.7637	0.7679	0.7590	-----	0.808	7.85	1.00	1.00	6.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.4102	0.4565	0.4306	0.4544	0.4080	0.3915	0.3903	0.3927	-----	0.417	7.87	1.00	1.00	6.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4640	0.5299	0.4907	0.5182	0.4536	0.4314	0.4076	0.3734	-----	0.459	8.06	0.991	1.00	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.5675	1.7239	1.6321	1.6959	1.5782	1.5026	1.4889	1.4357	-----	1.58	8.15	0.998	1.00	6.4	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.2651	1.4173	1.3233	1.4012	1.2999	1.2440	1.2516	1.2932	-----	1.31	8.02	0.999	0.999	5.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.2709	0.3389	0.3082	0.3195	0.2713	0.2601	0.2604	0.2638	-----	0.287	8.08	1.00	1.00	11	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.0511	1.1724	1.0848	1.1510	1.0658	1.0264	1.0314	1.0076	-----	1.07	8.30	0.999	1.00	5.5	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3440	0.3698	0.3541	0.3749	0.3080	0.3279	0.3155	0.3082	-----	0.338	8.23	0.998	0.999	8.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Avg	0.1482	-----	0.0986	0.1499	0.1769	0.1717	0.1790	0.1950	-----	0.160	8.32	0.994	0.998	20	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.5655	1.7486	1.6372	1.7013	1.5842	1.5086	1.4897	1.4221	1.8480	1.61	8.46	0.998	1.00	8.4	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Avg	0.4118	0.3992	0.3954	0.4444	0.4358	0.4215	0.4148	0.4109	-----	0.417	8.44	0.999	1.00	4.0	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Avg	0.2517	0.2577	0.2297	0.2446	0.2769	0.2600	0.2600	0.2785	-----	0.257	8.36	0.997	0.998	6.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.2987	0.2797	0.2794	0.3099	0.3151	0.3013	0.3114	0.3203	-----	0.302	8.57	0.999	1.00	5.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.2620	1.4085	1.3221	1.3867	1.2811	1.2147	1.2164	1.1954	-----	1.29	8.79	0.999	1.00	6.2	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.5957	0.6490	0.5912	0.6510	0.6269	0.5971	0.5919	0.5939	-----	0.612	8.77	1.00	1.00	4.3	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.2490	1.3868	1.2757	1.3765	1.2969	1.2386	1.2249	1.2242	-----	1.28	8.65	1.00	1.00	5.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.3618	0.3887	0.3639	0.3925	0.3739	0.3601	0.3599	0.3634	-----	0.371	8.80	1.00	1.00	3.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.3873	0.4002	0.3786	0.4193	0.4071	0.3871	0.3894	0.3963	-----	0.396	9.43	0.999	1.00	3.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Avg	0.1262	-----	0.1030	0.1281	0.1399	0.1341	0.1356	0.1417	-----	0.130	8.83	0.998	0.999	10	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6377	0.7214	0.6636	0.7072	0.6618	0.6258	0.6198	0.6290	-----	0.658	8.89	0.999	0.999	5.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Avg	0.0847	0.0869	0.0793	0.0897	0.0933	0.0884	0.0921	0.1017	-----	0.0895	9.02	0.993	0.998	7.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.8072	0.9618	0.7980	0.8277	0.8228	0.7721	0.7591	0.7356	-----	0.811	8.93	0.998	1.00	8.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.1972	0.2032	0.1930	0.2102	0.2138	0.2037	0.2009	0.2149	-----	0.205	9.27	0.998	0.998	3.8	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2052	0.2181	0.2031	0.2213	0.2243	0.2114	0.2153	0.2267	-----	0.216	9.34	0.998	0.999	4.0	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.3776	0.4315	0.3978	0.4358	0.3777	0.3598	0.3516	0.3273	-----	0.382	9.60	0.995	0.999	9.9	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Avg	0.1150	-----	0.0876	0.1133	0.1358	0.1273	0.1339	0.1452	-----	0.123	9.54	0.994	0.997	16	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.0190	1.1977	1.0789	1.1340	1.0787	1.0039	0.9907	1.0054	-----	1.06	9.77	0.999	0.999	6.9	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.0538	1.1848	1.1013	1.1746	1.0956	1.0264	1.0196	1.0069	-----	1.08	9.83	0.999	1.00	6.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	1.0312	1.1659	1.0570	1.1514	1.0777	1.0070	1.0013	0.9991	-----	1.06	10.00	0.999	0.999	6.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Avg	1.2812	1.3946	1.3159	1.4291	1.3433	1.2522	1.2417	1.2259	1.4241	1.32	10.38	0.999	1.00	6.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.1520	1.2074	1.1436	1.2553	1.2206	1.1268	1.1204	1.1280	-----	1.17	11.11	0.999	0.999	4.4	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.4470	1.5495	1.4214	1.5539	1.5277	1.4749	1.4372	1.5153	-----	1.49	11.38	0.999	0.999	3.5	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Avg	0.8647	0.9459	0.8645	0.9272	0.6617	0.8243	0.7779	0.8049	-----	0.834	11.27	0.993	0.994	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.8228	0.8476	0.7987	0.8592	0.9009	0.8706	0.8599	0.9870	-----	0.868	11.56	0.991	0.995	6.5		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags	*Note:* Avg Rsd: 6.69
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

3061429 0370

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M129292.D	CAL BNA@50PPM	06/19/23 12:21	2	7M129284.D	CAL BNA@2PPM	06/19/23 09:10
3	7M129290.D	CAL BNA@10PPM	06/19/23 11:34	4	7M129289.D	CAL BNA@20PPM	06/19/23 11:10
5	7M129293.D	CAL BNA@80PPM	06/19/23 13:08	6	7M129287.D	CAL BNA@120PPM	06/19/23 10:23
7	7M129286.D	CAL BNA@160PPM	06/19/23 10:00	8	7M129285.D	CAL BNA@196PPM	06/19/23 09:36
9	7M129291.D	CAL BNA@0.5PPM	06/19/23 11:57				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2883	0.3047	0.2750	0.3100	0.3113	0.3066	0.3063	0.3379	-----	0.305	11.49	0.995	0.998	6.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.5442	0.5709	0.5299	0.5842	0.5863	0.5625	0.5522	0.5919	-----	0.565	11.89	0.999	0.999	3.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Avg	0.7134	0.7462	0.6884	0.7621	0.7515	0.7330	0.7114	0.7540	-----	0.733	12.15	0.998	0.999	3.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.4085	0.4307	0.4075	0.4544	0.4184	0.4134	0.4014	0.4165	-----	0.419	12.25	0.999	0.999	4.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Avg	0.4604	0.5097	0.4619	0.4989	0.4639	0.4853	0.4677	0.4807	-----	0.479	12.78	0.999	0.999	3.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.2676	1.3985	1.2335	1.3371	1.3505	1.3052	1.2757	1.3641	-----	1.32	12.81	0.998	0.998	4.2	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.0847	1.2578	1.1567	1.2250	1.1545	1.1114	1.0813	1.1580	-----	1.15	12.85	0.998	0.998	5.5	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Avg	0.8900	1.0223	0.9337	0.9893	0.9110	0.8978	0.8564	0.8800	-----	0.923	12.85	0.999	0.999	6.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Avg	1.6649	1.8995	1.7042	1.8370	1.7442	1.6648	1.5819	1.6154	-----	1.71	13.62	0.999	0.999	6.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.1907	1.2795	1.2001	1.3076	1.2973	1.2297	1.3112	1.4532	-----	1.28	14.06	0.995	0.998	6.5	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.1821	1.3132	1.1964	1.2590	1.2276	1.1672	1.0315	1.0739	-----	1.18	14.09	0.994	0.997	7.8	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.0744	1.1165	1.0470	1.1354	1.1431	1.1014	1.0787	1.1531	-----	1.11	14.43	0.998	0.998	3.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.2411	1.2976	1.1918	1.3102	1.3460	1.2666	1.2437	1.3711	-----	1.28	15.87	0.998	0.998	4.6	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.0366	1.1028	1.0007	1.0968	1.1048	1.0388	1.0271	1.1223	-----	1.07	15.90	0.996	0.997	4.2	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	1.0219	1.0842	0.9831	1.0663	1.0939	1.0481	1.0306	1.1369	-----	1.06	16.28	0.996	0.997	4.5	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 6.69
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129292.D Sam Mult : 1 Vial# : 10 Qt On : 06/19/23 12:41
Acq On : 06/19/23 12:21 Misc : A,BNA Qt Upd On: 06/19/23 12:07

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.617	96	72028	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.825	152	114846	40.00	ng	0.00
31) Naphthalene-d8	6.835	136	457566	40.00	ng	0.00
50) Acenaphthene-d10	8.275	164	272153	40.00	ng	0.00
77) Phenanthrene-d10	9.750	188	477035	40.00	ng	0.00
91) Chrysene-d12	12.822	240	380525	40.00	ng	0.00
103) Perylene-d12	14.491	264	385859	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.644	112	207221	46.62	ng	0.00
Spiked Amount 100.000			Recovery = 46.62%			
16) Phenol-d5	5.519	99	249449	44.69	ng	0.00
Spiked Amount 100.000			Recovery = 44.69%			
32) Nitrobenzene-d5	6.277	128	51167	25.21	ng	0.00
Spiked Amount 50.000			Recovery = 50.42%			
55) 2-Fluorobiphenyl	7.681	172	218116	22.93	ng	0.00
Spiked Amount 50.000			Recovery = 45.86%			
80) 2,4,6-Tribromophenol	9.021	330	50526	46.84	ng	0.00
Spiked Amount 100.000			Recovery = 46.84%			
94) Terphenyl-d14	11.559	244	195705	25.15	ng	0.00
Spiked Amount 50.000			Recovery = 50.30%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.658	88	89389	48.8476	ng	100
9) Pyridine	3.122	79	168355	44.0497	ng	69
10) N-Nitrosodimethylamine	3.069	74	132508	44.0986	ng	72
12) Benzaldehyde	5.454	77	177974	42.9308	ng	75
13) Aniline	5.548	93	306060	44.4921	ng	90
14) Pentachloroethane	5.590	117	75076	45.5055	ng	87
15) bis(2-Chloroethyl)ether	5.607	93	201851	43.0260	ng	78
17) Phenol	5.531	94	289719	45.1824	ng	86
18) 2-Chlorophenol	5.648	128	210462	46.2042	ng	81
19) N-Decane	5.690	57	201372	53.8357	ng	90
20) 1,3-Dichlorobenzene	5.778	146	216249	42.4245	ng	98
22) 1,4-Dichlorobenzene	5.836	146	212800	47.4174	ng	97
23) 1,2-Dichlorobenzene	5.960	146	203530	48.1573	ng	99
24) Benzyl alcohol	5.942	108	144978	50.8693	ng	71
25) bis(2-chloroisopropyl)...	6.048	45	242968	67.5097	ng	97
26) 2-Methylphenol	6.030	108	192899	49.6632	ng	97
27) Acetophenone	6.154	105	282375	50.8196	ng	74
28) Hexachloroethane	6.236	117	88077	48.4868	ng	82
29) N-Nitroso-di-n-propyla...	6.154	70	136328	43.4208	ng	83
30) 3&4-Methylphenol	6.154	108	187943	46.5689	ng	96
33) Nitrobenzene	6.289	77	214400	43.3021	ng	81
34) Isophorone	6.477	82	406186	43.2669	ng	87
35) 2-Nitrophenol	6.541	139	116529	50.4959	ng	86
36) 2,4-Dimethylphenol	6.565	107	207746	43.4097	ng	96
37) Benzoic Acid	6.653	105	168269	40.3325	ng	43
38) bis(2-Chloroethoxy)met...	6.641	93	241511	45.8018	ng	97
39) 2,4-Dichlorophenol	6.724	162	169481	44.9452	ng	91
40) 1,2,4-Trichlorobenzene	6.788	180	171300	40.8987	ng	99
41) Naphthalene	6.853	128	600587	48.3069	ng	98
42) 4-Chloroaniline	6.888	127	243264m	51.4751	ng	
43) Hexachlorobutadiene	6.941	225	87735	33.4867	ng	97
44) Caprolactam	7.182	113	75512	52.6429	ng	68
45) 4-Chloro-3-methylphenol	7.258	107	188511	45.8616	ng	86
46) 2-Methylnaphthalene	7.393	142	389037	45.2375	ng	99
47) 1-Methylnaphthalene	7.470	142	366261	46.1001	ng	92
48) Methylnaphthalenes (To...	7.393	142	755433m	91.1591	ng	
49) 1,1'-Biphenyl	7.769	154	479245	44.8977	ng	93
51) 1,2,4,5-Tetrachloroben...	7.523	216	167251	40.9331	ng	99
52) Hexachlorocyclopentadiene	7.511	237	54147	23.2761	ng	98
53) 2,4,6-Trichlorophenol	7.617	196	119807	40.9329	ng	98
54) 2,4,5-Trichlorophenol	7.652	196	129082	42.2580	ng	99
56) 2-Chloronaphthalene	7.793	162	377585	47.1772	ng	92
57) 1,4-Dimethylnaphthalene	8.075	156	294152	44.5811	ng	88
58) Dimethylnaphthalenes (...	8.075	156	294152	44.5811	ng	88
59) Diphenyl Ether	7.852	170	268874	48.1570	ng	80
60) 2-Nitroaniline	7.869	65	139562	48.2356	ng	62
61) Coumarin	8.063	146	157849	48.6878	ng	73
62) Acenaphthylene	8.151	152	533268	47.2502	ng	100
63) Dimethylphthalate	8.016	163	430388	45.0400	ng	98
64) 2,6-Dinitrotoluene	8.075	165	92175	43.0663	ng	71
65) Acenaphthene	8.304	153	357600	45.8217	ng	98

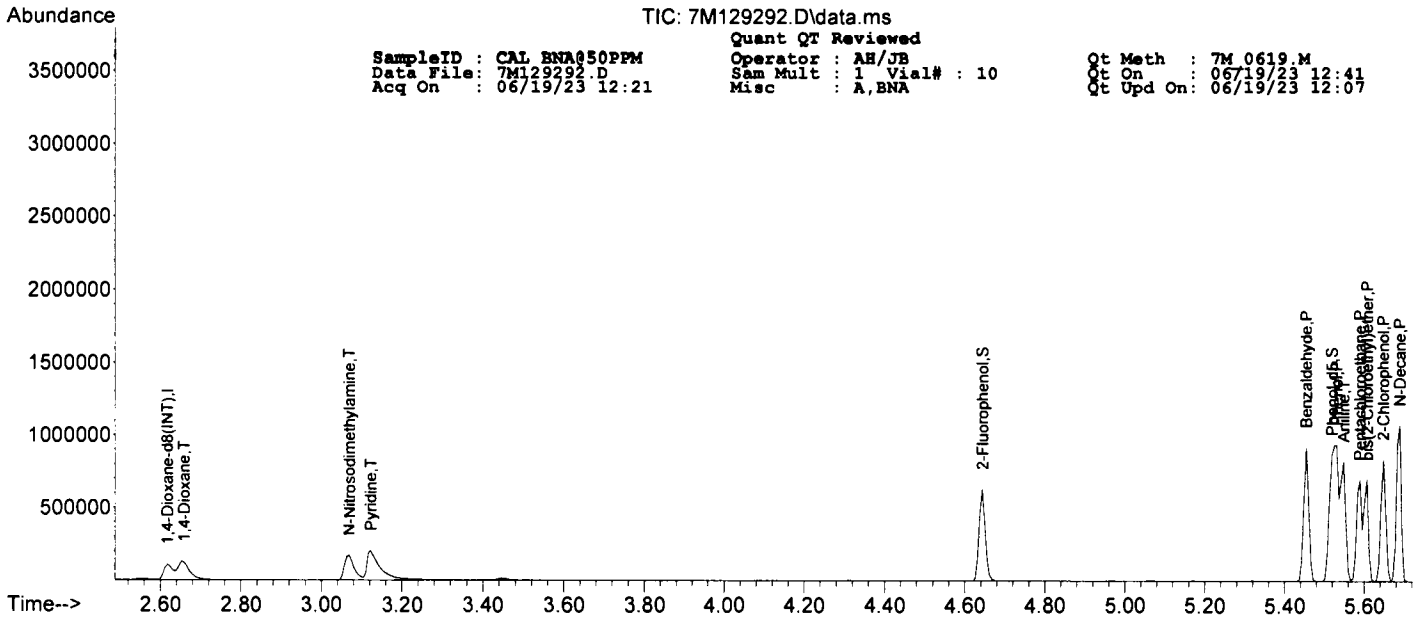
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129292.D Sam Mult : 1 Vial# : 10 Qt On : 06/19/23 12:41
Acq On : 06/19/23 12:21 Misc : A,BNA Qt Upd On: 06/19/23 12:07

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.228	138	117043	54.8644	ng	79
67)	2,4-Dinitrophenol	8.322	184	50433	46.3470	ng	40
68)	Dibenzofuran	8.463	168	532592	46.2696	ng	86
69)	2,4-Dinitrotoluene	8.439	165	140123	48.7950	ng	63
70)	4-Nitrophenol	8.363	65	85644	46.0627	ng	87
71)	2,3,4,6-Tetrachlorophenol	8.569	232	101635	39.4138	ng	85
72)	Fluorene	8.786	166	429329	45.4368	ng	99
73)	4-Chlorophenyl-phenyle...	8.774	204	202674	40.9258	ng	87
74)	Diethylphthalate	8.651	149	424925	44.3383	ng	98
75)	4-Nitroaniline	8.804	138	123083	52.3556	ng	76
76)	Atrazine	9.426	200	131786	46.1428	ng	98
78)	4,6-Dinitro-2-methylph...	8.827	198	75255	52.0893	ng	62
79)	n-Nitrosodiphenylamine	8.892	169	380256	48.9171	ng	98
81)	1,2-Diphenylhydrazine	8.933	77	481376	49.5439	ng	83
82)	4-Bromophenyl-phenylether	9.268	248	117635	43.1423	ng	83
83)	Hexachlorobenzene	9.338	284	122379	43.8196	ng	61
84)	N-Octadecane	9.603	57	225168	63.3145	ng	76
85)	Pentachlorophenol	9.538	266	68594	38.3981	ng	96
86)	Phenanthrene	9.773	178	607666	48.3035	ng	99
87)	Anthracene	9.832	178	628375	48.9102	ng	99
88)	Carbazole	10.002	167	614945	52.0355	ng	97
89)	Di-n-butylphthalate	10.378	149	764028	49.8482	ng	98
90)	Fluoranthene	11.113	202	686952	45.9876	ng	92
92)	Pyrene	11.377	202	688308	49.9324	ng	90
93)	Benzidine	11.265	184	411340	58.9903	ng	89
95)	4,4'-DDE	11.495	246	137166	43.7797	ng	94
96)	4,4'-DDD	11.894	235	258852	44.9888	ng	93
97)	Butylbenzylphthalate	12.153	149	339332	55.0083	ng	75
98)	4,4'-DDT	12.253	235	194342	44.6101	ng	96
99)	3,3'-Dichlorobenzidine	12.781	252	219012	49.5425	ng	96
100)	Benzo[a]anthracene	12.811	228	602986	46.8119	ng	99
101)	Chrysene	12.852	228	515956	43.7779	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.852	149	423334	53.7679	ng	92
104)	Di-n-octylphthalate	13.616	149	803065	52.0680	ng	100
105)	Benzo[b]fluoranthene	14.056	252	574341m	42.5323	ng	
106)	Benzo[k]fluoranthene	14.086	252	570153	47.0435	ng	95
107)	Benzo[a]pyrene	14.426	252	518233	45.6599	ng	93
108)	Indeno[1,2,3-cd]pyrene	15.872	276	598621	44.5152	ng	87
109)	Dibenzo[a,h]anthracene	15.901	278	500004	44.8705	ng	90
110)	Benzo[g,h,i]perylene	16.277	276	492915	46.1579	ng	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed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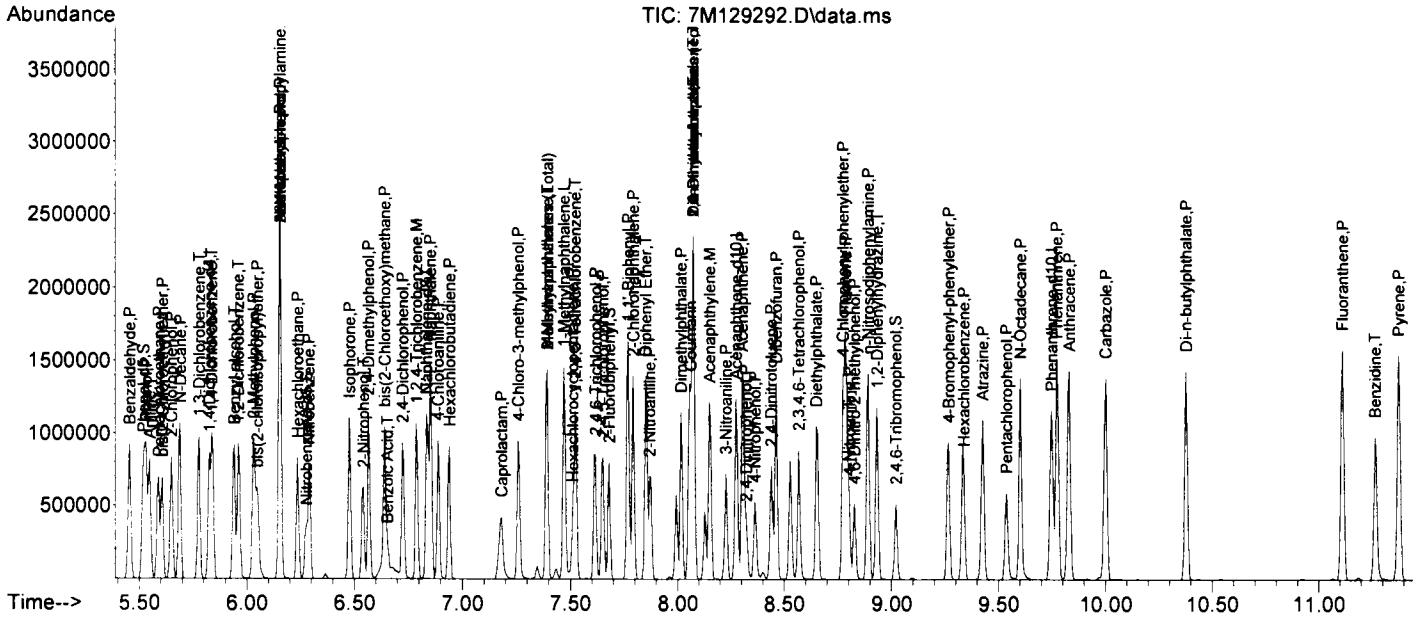
SampleID : CAL BNA@50PPM
Data File: 7M129292.D
Acq On : 06/19/23 12:21
Quant QT Reviewed
Operator : AH/JB
Sam Mult : 1 Vial# : 10
Misc : A,BNA
Qt Meth : 7M_0619.M
Qt On : 06/19/23 12:41
Qt Upd On: 06/19/23 12:07
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->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Isophorone,P
Caprolactam,P
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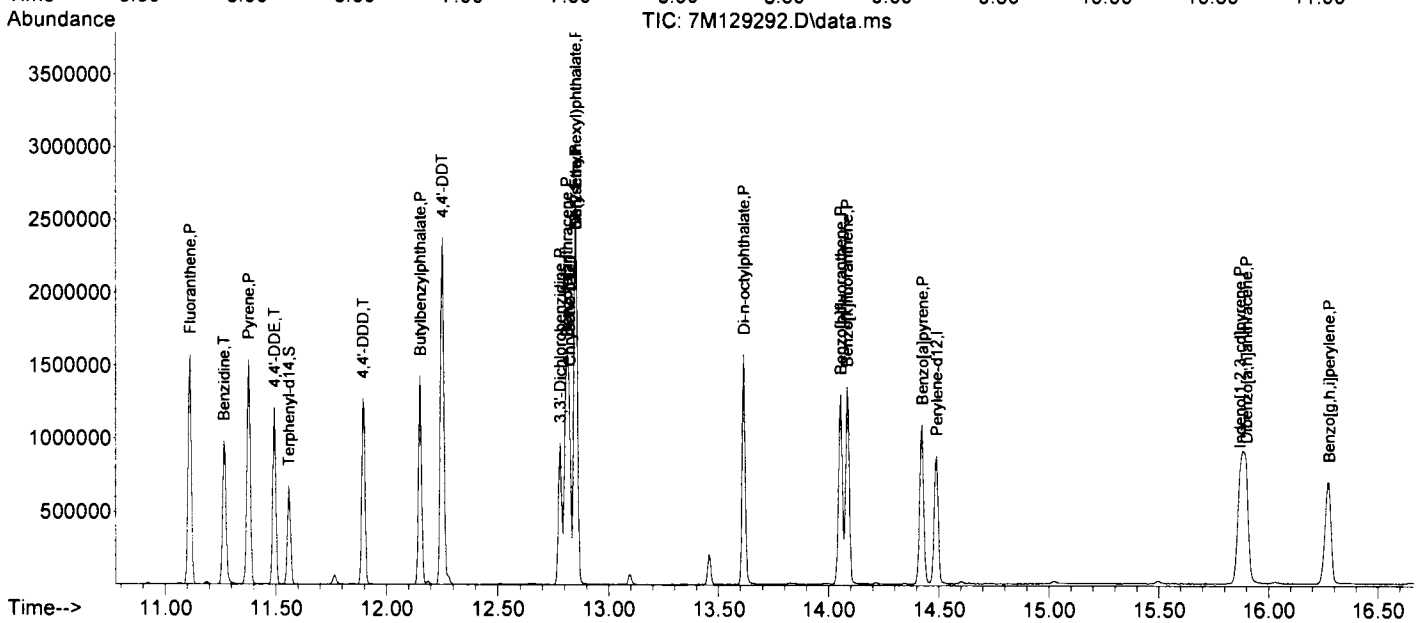
Dimethylphthalate,P
Acenaphthylene,M
Diethylphthalate,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 7M129292.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@2PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129284.D Sam Mult : 1 Vial# : 2 Qt On : 06/19/23 12:07
Acq On : 06/19/23 09:10 Misc : A,BNA Qt Upd On: 06/19/23 12:07

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.622	96	77595	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.825	152	132834	40.00	ng	0.00
31) Naphthalene-d8	6.829	136	541464	40.00	ng	0.00
50) Acenaphthene-d10	8.269	164	327568	40.00	ng	0.00
77) Phenanthrene-d10	9.744	188	548905	40.00	ng	0.00
91) Chrysene-d12	12.817	240	448163	40.00	ng	-0.01
103) Perylene-d12	14.473	264	421975	40.00	ng	-0.01
System Monitoring Compounds						
11) 2-Fluorophenol	4.644	112	9718m	2.03	ng	0.00
Spiked Amount 100.000			Recovery = 2.03%			
16) Phenol-d5	5.513	99	11750	1.95	ng	-0.01
Spiked Amount 100.000			Recovery = 1.95%			
32) Nitrobenzene-d5	6.271	128	2751	1.15	ng	0.00
Spiked Amount 50.000			Recovery = 2.30%			
55) 2-Fluorobiphenyl	7.675	172	11309	0.99	ng	0.00
Spiked Amount 50.000			Recovery = 1.98%			
80) 2,4,6-Tribromophenol	9.015	330	2385	1.92	ng	-0.01
Spiked Amount 100.000			Recovery = 1.92%			
94) Terphenyl-d14	11.559	244	9497	1.04	ng	0.00
Spiked Amount 50.000			Recovery = 2.08%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.664	88	4167	2.1137	ng	96
9) Pyridine	3.157	79	6659	1.6173	ng	71
10) N-Nitrosodimethylamine	3.081	74	6056	1.8708	ng	69
12) Benzaldehyde	5.454	77	8591	1.9236	ng	73
13) Aniline	5.543	93	14850	2.0039	ng	90
14) Pentachloroethane	5.584	117	4067	2.2883	ng	88
15) bis(2-Chloroethyl)ether	5.601	93	10298	2.0376	ng	78
17) Phenol	5.525	94	13843	2.0040	ng	89
18) 2-Chlorophenol	5.648	128	10470	2.1336	ng	77
19) N-Decane	5.684	57	11089	2.7519	ng	94
20) 1,3-Dichlorobenzene	5.772	146	11379	2.0722	ng	98
22) 1,4-Dichlorobenzene	5.836	146	11129	2.1440	ng	97
23) 1,2-Dichlorobenzene	5.960	146	10834	2.2163	ng	97
24) Benzyl alcohol	5.936	108	7234	2.1945	ng	75
25) bis(2-chloroisopropyl)...	6.048	45	13248	3.1825	ng	97
26) 2-Methylphenol	6.030	108	9518	2.1186	ng	98
27) Acetophenone	6.148	105	15723	2.4465	ng	72
28) Hexachloroethane	6.236	117	4479	2.1318	ng	84
29) N-Nitroso-di-n-propyla...	6.148	70	7799	2.1476	ng	81
30) 3&4-Methylphenol	6.154	108	10127	2.1695	ng	96
33) Nitrobenzene	6.289	77	11842	2.0211	ng	78
34) Isophorone	6.471	82	21302	1.9175	ng	89
35) 2-Nitrophenol	6.536	139	5623	2.0591	ng	90
36) 2,4-Dimethylphenol	6.565	107	10436	1.8428	ng	92
37) Benzoic Acid	0.000		0	N.D. d		
38) bis(2-Chloroethoxy)met...	6.635	93	12991	2.0820	ng	91
39) 2,4-Dichlorophenol	6.724	162	8623	1.9324	ng	84
40) 1,2,4-Trichlorobenzene	6.782	180	9075	1.8310	ng	97
41) Naphthalene	6.847	128	32277	2.1939	ng	98
42) 4-Chloroaniline	6.882	127	12257m	2.1917	ng	
43) Hexachlorobutadiene	6.935	225	4420	1.4256	ng	94
44) Caprolactam	7.135	113	3430	2.0207	ng	72
45) 4-Chloro-3-methylphenol	7.247	107	9351	1.9225	ng	88
46) 2-Methylnaphthalene	7.382	142	20406	2.0052	ng	97
47) 1-Methylnaphthalene	7.464	142	19397	2.0631	ng	89
48) Methylnaphthalenes (To...	7.464	142	39870m	4.0657	ng	
49) 1,1'-Biphenyl	7.758	154	26246	2.0778	ng	95
51) 1,2,4,5-Tetrachloroben...	7.517	216	9048	1.8398	ng	95
52) Hexachlorocyclopentadiene	7.505	237	762	0.2721	ng	92
53) 2,4,6-Trichlorophenol	7.605	196	6271	1.7801	ng	93
54) 2,4,5-Trichlorophenol	7.640	196	6516	1.7723	ng	97
56) 2-Chloronaphthalene	7.781	162	19829	2.0584	ng	96
57) 1,4-Dimethylnaphthalene	8.063	156	17142	2.1585	ng	93
58) Dimethylnaphthalenes (...	8.063	156	17142	2.1585	ng	93
59) Diphenyl Ether	7.846	170	14690	2.1860	ng	79
60) 2-Nitroaniline	7.858	65	7477	2.1470	ng	66
61) Coumarin	8.046	146	8679	2.2241	ng	79
62) Acenaphthylene	8.145	152	28235	2.0785	ng	99
63) Dimethylphthalate	8.004	163	23214	2.0184	ng	95
64) 2,6-Dinitrotoluene	8.063	165	5551	2.1548	ng	70
65) Acenaphthene	8.298	153	19203	2.0443	ng	96

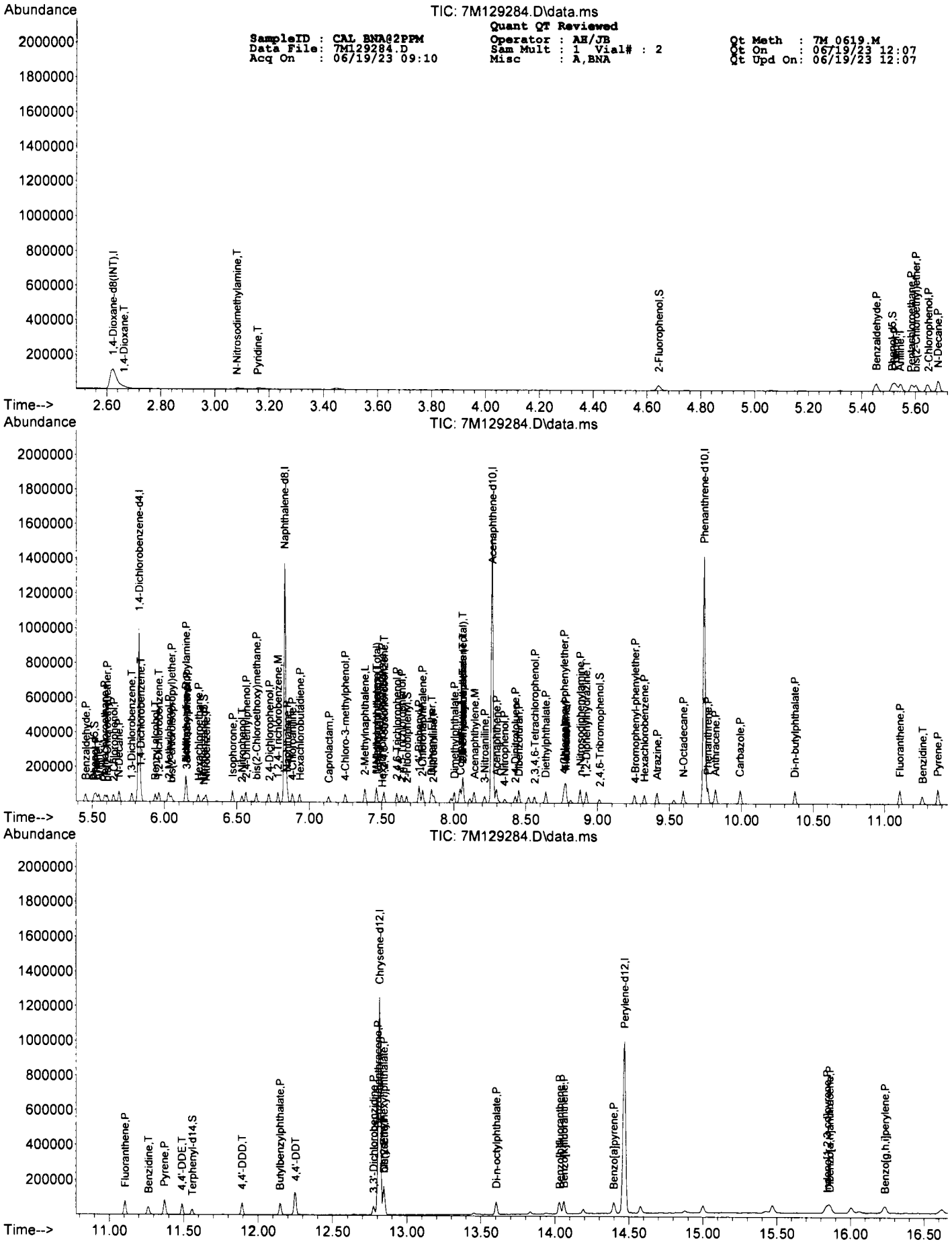
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@2PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129284.D Sam Mult : 1 Vial# : 2 Qt On : 06/19/23 12:07
Acq On : 06/19/23 09:10 Misc : A,BNA **Qt Upd On: 06/19/23 12:07**

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) 3-Nitroaniline	8.216	138	6057	2.3589	ng	85
67) 2,4-Dinitrophenol	0.000		0	N.D. d		
68) Dibenzofuran	8.451	168	28640	2.0672	ng	89
69) 2,4-Dinitrotoluene	8.427	165	6539	1.8919	ng	64
70) 4-Nitrophenol	8.351	65	4222	1.8866	ng	94
71) 2,3,4,6-Tetrachlorophenol	8.563	232	4581	1.4760	ng	87
72) Fluorene	8.780	166	23069	2.0284	ng	96
73) 4-Chlorophenyl-phenyle...	8.768	204	10631	1.7835	ng	85
74) Diethylphthalate	8.639	149	22714	1.9691	ng	95
75) 4-Nitroaniline	8.780	138	6367	2.2502	ng	80
76) Atrazine	9.415	200	6556	1.9072	ng	96
78) 4,6-Dinitro-2-methylph...	0.000		0	N.D. d		
79) n-Nitrosodiphenylamine	8.880	169	19800	2.2136	ng	98
81) 1,2-Diphenylhydrazine	8.921	77	26398	2.3612	ng	84
82) 4-Bromophenyl-phenylether	9.262	248	5579	1.7782	ng	89
83) Hexachlorobenzene	9.326	284	5987	1.8630	ng	72
84) N-Octadecane	9.597	57	11843	2.8941	ng	74
85) Pentachlorophenol	0.000		0	N.D. d		
86) Phenanthrene	9.767	178	32872	2.2709	ng	98
87) Anthracene	9.820	178	32517	2.1996	ng	99
88) Carbazole	9.990	167	31999	2.3532	ng	98
89) Di-n-butylphthalate	10.372	149	38277	2.1704	ng	98
90) Fluoranthene	11.107	202	33139	1.9280	ng	93
92) Pyrene	11.371	202	34722	2.1387	ng	94
93) Benzidine	11.265	184	21197	2.5811	ng	94
95) 4,4'-DDE	11.489	246	6829	1.8507	ng	94
96) 4,4'-DDD	11.894	235	12793	1.8879	ng	97
97) Butylbenzylphthalate	12.147	149	16723	2.3018	ng	80
98) 4,4'-DDT	12.252	235	9653	1.8814	ng	92
99) 3,3'-Dichlorobenzidine	12.775	252	11422	2.1938	ng	96
100) Benzo[a]anthracene	12.805	228	31338	2.0657	ng	98
101) Chrysene	12.846	228	28186	2.0306	ng	99
102) bis(2-Ethylhexyl)phtha...	12.846	149	22909	2.4705	ng	93
104) Di-n-octylphthalate	13.604	149	40078	2.3761	ng	99
105) Benzo[b]fluoranthene	14.033	252	26997	1.8281	ng	96
106) Benzo[k]fluoranthene	14.062	252	27707m	2.0904	ng	
107) Benzo[a]pyrene	14.397	252	23557	1.8979	ng	99
108) Indeno[1,2,3-cd]pyrene	15.842	276	27378	1.8617	ng	94
109) Dibenzo[a,h]anthracene	15.860	278	23269	1.9094	ng	94
110) Benzo[g,h,i]perylene	16.236	276	22877	1.9589	ng	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 7M129284.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@2PPM
Data File: 7M129284.D
Acq On : 06/19/23 09:10
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 7M_0619.M
Qt On : 06/19/23 12:07
Qt Upd On: 06/19/23 12:07
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Chrysene-d12,I
Perylene-d12,I
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo(a)pyrene,P
Benzo(g,h,i)perylene,P

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@10PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129290.D Sam Mult : 1 Vial# : 8 Qt On : 06/19/23 12:09
Acq On : 06/19/23 11:34 Misc : A,BNA Qt Upd On: 06/19/23 12:07

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.617	96	63671	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.825	152	109781	40.00	ng	0.00
31) Naphthalene-d8	6.835	136	448168	40.00	ng	0.00
50) Acenaphthene-d10	8.269	164	263470	40.00	ng	0.00
77) Phenanthrene-d10	9.744	188	447825	40.00	ng	0.00
91) Chrysene-d12	12.817	240	370466	40.00	ng	-0.01
103) Perylene-d12	14.474	264	352262	40.00	ng	-0.01
System Monitoring Compounds						
11) 2-Fluorophenol	4.644	112	37621	9.57	ng	0.00
Spiked Amount 100.000			Recovery =	9.57%		
16) Phenol-d5	5.513	99	46734	9.47	ng	-0.01
Spiked Amount 100.000			Recovery =	9.47%		
32) Nitrobenzene-d5	6.271	128	9746	4.90	ng	0.00
Spiked Amount 50.000			Recovery =	9.80%		
55) 2-Fluorobiphenyl	7.676	172	42395	4.60	ng	0.00
Spiked Amount 50.000			Recovery =	9.20%		
80) 2,4,6-Tribromophenol	9.015	330	8884	8.77	ng	-0.01
Spiked Amount 100.000			Recovery =	8.77%		
94) Terphenyl-d14	11.559	244	36989	4.88	ng	0.00
Spiked Amount 50.000			Recovery =	9.76%		
Target Compounds						Qvalue
8) 1,4-Dioxane	2.658	88	15859	9.8038	ng	100
9) Pyridine	3.134	79	28607	8.4674	ng	69
10) N-Nitrosodimethylamine	3.075	74	24077	9.0645	ng	76
12) Benzaldehyde	5.455	77	33593	9.1669	ng	70
13) Aniline	5.543	93	58815	9.6722	ng	90
14) Pentachloroethane	5.584	117	14435	9.8978	ng	83
15) bis(2-Chloroethyl)ether	5.602	93	39569	9.5415	ng	81
17) Phenol	5.525	94	55296	9.7554	ng	86
18) 2-Chlorophenol	5.649	128	40400	10.0334	ng	78
19) N-Decane	5.684	57	40561	12.2670	ng	93
20) 1,3-Dichlorobenzene	5.778	146	42224	9.3709	ng	95
22) 1,4-Dichlorobenzene	5.837	146	41909	9.7693	ng	98
23) 1,2-Dichlorobenzene	5.960	146	40542	10.0352	ng	96
24) Benzyl alcohol	5.936	108	27849	10.2224	ng	71
25) bis(2-chloroisopropyl)...	6.048	45	47922	13.9297	ng	96
26) 2-Methylphenol	6.030	108	37782	10.1760	ng	94
27) Acetophenone	6.148	105	58814	11.0732	ng	74
28) Hexachloroethane	6.236	117	16731	9.6355	ng	88
29) N-Nitroso-di-n-propyla...	6.148	70	28387	9.4585	ng	80
30) 3&4-Methylphenol	6.154	108	39480	10.2338	ng	99
33) Nitrobenzene	6.289	77	42853	8.8365	ng	78
34) Isophorone	6.471	82	80730	8.7797	ng	90
35) 2-Nitrophenol	6.536	139	22337	9.8823	ng	91
36) 2,4-Dimethylphenol	6.565	107	41532	8.8603	ng	92
37) Benzoic Acid	6.612	105	23046	5.6397	ng	47
38) bis(2-Chloroethoxy)met...	6.636	93	48249	9.3421	ng	96
39) 2,4-Dichlorophenol	6.724	162	33156	8.9771	ng	86
40) 1,2,4-Trichlorobenzene	6.788	180	34325	8.3671	ng	97
41) Naphthalene	6.847	128	118741	9.7509	ng	99
42) 4-Chloroaniline	6.888	127	48206m	10.4144	ng	
43) Hexachlorobutadiene	6.935	225	17032	6.6371	ng	97
44) Caprolactam	7.147	113	14391	10.2430	ng	70
45) 4-Chloro-3-methylphenol	7.253	107	36230	8.9990	ng	84
46) 2-Methylnaphthalene	7.388	142	77528	9.2040	ng	97
47) 1-Methylnaphthalene	7.470	142	73194	9.4059	ng	91
48) Methylnaphthalenes (To...	7.388	142	150982m	18.6012	ng	
49) 1,1'-Biphenyl	7.764	154	98213	9.3939	ng	94
51) 1,2,4,5-Tetrachloroben...	7.523	216	32860	8.3072	ng	97
52) Hexachlorocyclopentadiene	7.511	237	5363	2.3814	ng	95
53) 2,4,6-Trichlorophenol	7.611	196	26696	9.4215	ng	100
54) 2,4,5-Trichlorophenol	7.640	196	24785m	8.3813	ng	
56) 2-Chloronaphthalene	7.787	162	76468	9.8691	ng	91
57) 1,4-Dimethylnaphthalene	8.069	156	61900	9.6906	ng	91
58) Dimethylnaphthalenes (...	8.069	156	61900	9.6906	ng	91
59) Diphenyl Ether	7.846	170	53954	9.9820	ng	82
60) 2-Nitroaniline	7.864	65	28365	10.1266	ng	60
61) Coumarin	8.052	146	32326	10.2994	ng	89
62) Acenaphthylene	8.146	152	107508	9.8397	ng	99
63) Dimethylphthalate	8.011	163	87163	9.4222	ng	98
64) 2,6-Dinitrotoluene	8.069	165	20306	9.8001	ng	66
65) Acenaphthene	8.298	153	71459	9.4583	ng	96

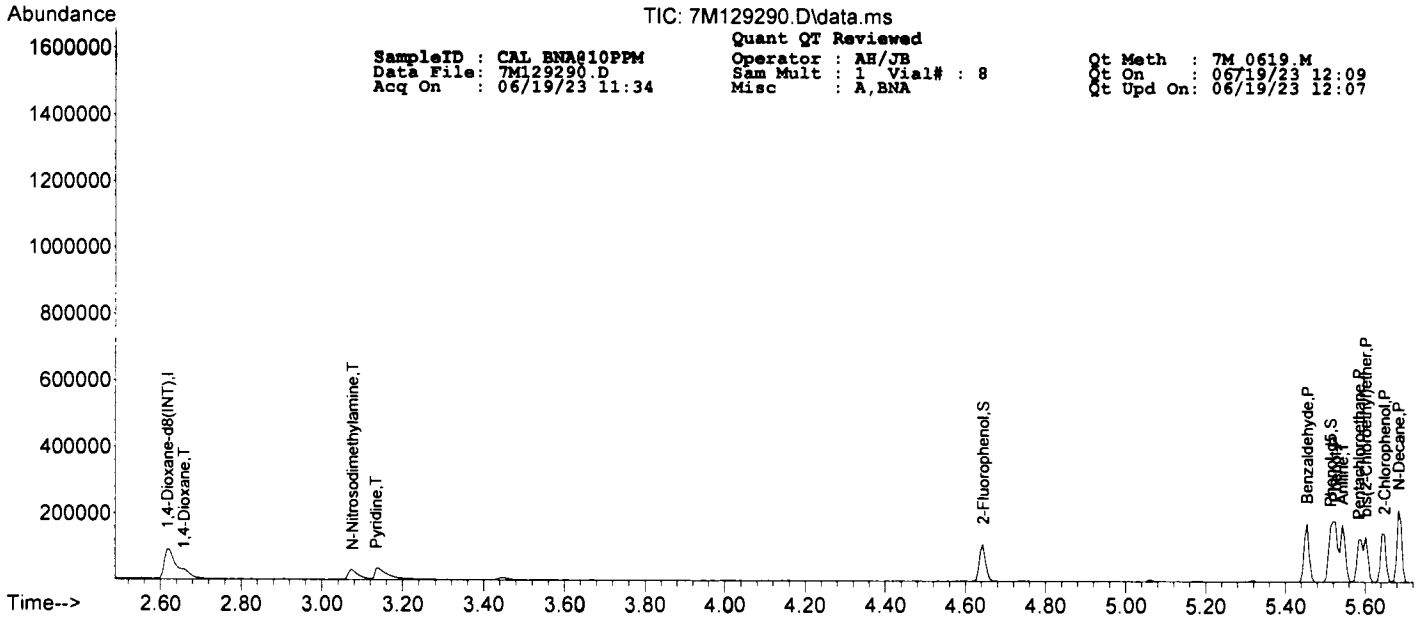
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@10PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129290.D Sam Mult : 1 Vial# : 8 Qt On : 06/19/23 12:09
Acq On : 06/19/23 11:34 **Misc : A,BNA** **Qt Upd On: 06/19/23 12:07**

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.222	138	23328	11.2955	ng	74
67)	2,4-Dinitrophenol	8.316	184	6497	6.6048	ng	47
68)	Dibenzofuran	8.457	168	107839	9.6774	ng	83
69)	2,4-Dinitrotoluene	8.428	165	26049	9.3700	ng	68
70)	4-Nitrophenol	8.357	65	15131	8.4063	ng	87
71)	2,3,4,6-Tetrachlorophenol	8.563	232	18407	7.3734	ng	88
72)	Fluorene	8.780	166	87086	9.5202	ng	100
73)	4-Chlorophenyl-phenyle...	8.768	204	38946	8.1235	ng	87
74)	Diethylphthalate	8.645	149	84029	9.0569	ng	98
75)	4-Nitroaniline	8.786	138	23970	10.5321	ng	76
76)	Atrazine	9.415	200	24938	9.0194	ng	99
78)	4,6-Dinitro-2-methylph...	8.815	198	11535	8.5050	ng	57
79)	n-Nitrosodiphenylamine	8.880	169	74295	10.1809	ng	97
81)	1,2-Diphenylhydrazine	8.927	77	89351	9.7960	ng	85
82)	4-Bromophenyl-phenylether	9.262	248	21611	8.4427	ng	85
83)	Hexachlorobenzene	9.327	284	22738	8.6727	ng	68
84)	N-Octadecane	9.597	57	44540	13.3410	ng	77
85)	Pentachlorophenol	9.532	266	9807	5.8479	ng	96
86)	Phenanthrene	9.767	178	120799	10.2287	ng	98
87)	Anthracene	9.826	178	123307	10.2238	ng	99
88)	Carbazole	9.996	167	118348	10.6676	ng	98
89)	Di-n-butylphthalate	10.372	149	147332	10.2395	ng	97
90)	Fluoranthene	11.107	202	128033	9.1302	ng	95
92)	Pyrene	11.371	202	131645	9.8093	ng	93
93)	Benzidine	11.266	184	80071	11.7948	ng	88
95)	4,4'-DDE	11.489	246	25472	8.3507	ng	97
96)	4,4'-DDD	11.894	235	49080	8.7618	ng	93
97)	Butylbenzylphthalate	12.147	149	63764	10.6173	ng	77
98)	4,4'-DDT	12.253	235	37747	8.8999	ng	94
99)	3,3'-Dichlorobenzidine	12.776	252	42786	9.9414	ng	96
100)	Benzo[a]anthracene	12.805	228	114245	9.1101	ng	99
101)	Chrysene	12.846	228	107133	9.3368	ng	95
102)	bis(2-Ethylhexyl)phtha...	12.846	149	86483	11.2825	ng	92
104)	Di-n-octylphthalate	13.604	149	150085	10.6591	ng	99
105)	Benzo[b]fluoranthene	14.039	252	105690m	8.5732	ng	
106)	Benzo[k]fluoranthene	14.068	252	105368m	9.5231	ng	
107)	Benzo[a]pyrene	14.403	252	92207	8.8989	ng	97
108)	Indeno[1,2,3-cd]pyrene	15.849	276	104959	8.5495	ng	91
109)	Dibenzo[a,h]anthracene	15.872	278	88127	8.6628	ng	93
110)	Benzo[g,h,i]perylene	16.242	276	86584	8.8813	ng	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed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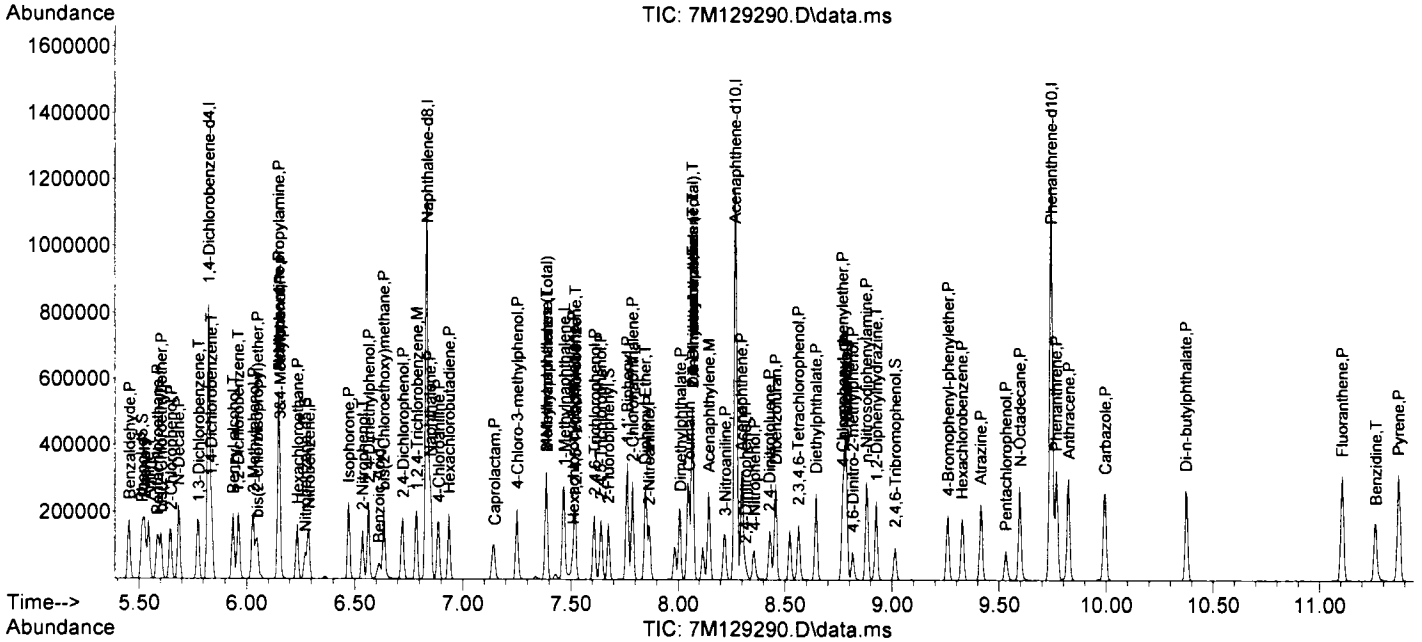
Quant QT Reviewed
SampleID : CAL BNA@10PPM
Data File: 7M129290.D
Acq On : 06/19/23 11:34
Operator : AH/JB
Sam Mult : 1 Vial# : 8
Misc : A,BNA
Qt Meth : 7M_0619.M
Qt On : 06/19/23 12:09
Qt Upd On: 06/19/23 12:07
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->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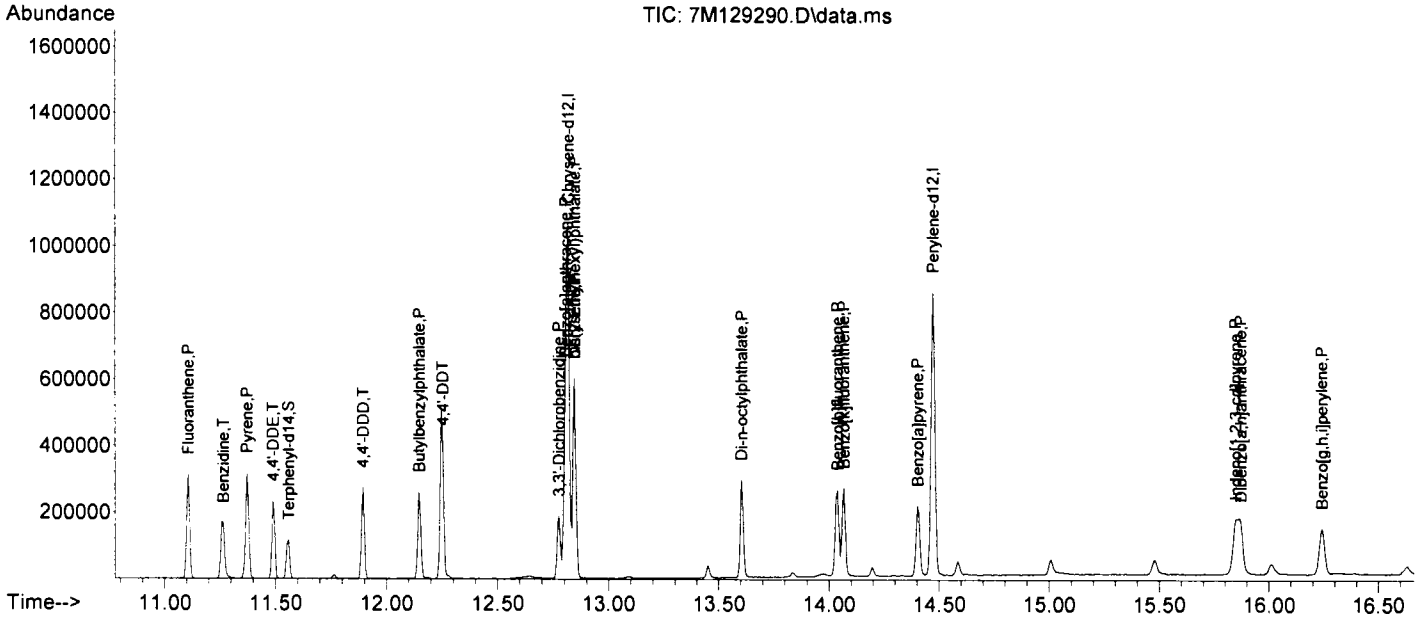
Benzaldehyde,P
1,3-Dichlorobenzene,T
1,4-Dichlorobenzene-d4,I
1,4-Dichlorobenzene,T
Isophorone,P
2,4-Dichlorophenol,P
1,2,4-Trichlorobenzene,M
Naphthalene-d8,I
Hexachlorobutadiene,P
Caprolactam,P
4-Chloro-3-methylphenol,P
Acenaphthylene,M
Acenaphthene-d10,I
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene-d10,I
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 7M129290.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
3,3'-Dichlorobenzidine,P
Chrysene-d12,I
Di-n-octylphthalate,P
Benzo(b)fluoranthene,P
Benzo(k)fluoranthene,P
Benzo(a)pyrene,P
Perylene-d12,I
Indeno(1,2,3-cd)pyrene,P
Dibenz(a,h)anthracene,P
Benzo(g,h,i)perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@20PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129289.D Sam Mult : 1 Vial# : 7 Qt On : 06/19/23 12:08
Acq On : 06/19/23 11:10 Misc : A,BNA Qt Upd On: 06/19/23 12:07

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.617	96	73993	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.825	152	122688	40.00	ng	0.00
31) Naphthalene-d8	6.835	136	504615	40.00	ng	0.00
50) Acenaphthene-d10	8.275	164	293451	40.00	ng	0.00
77) Phenanthrene-d10	9.744	188	502170	40.00	ng	0.00
91) Chrysene-d12	12.822	240	417689	40.00	ng	0.00
103) Perylene-d12	14.479	264	411292	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.644	112	92580	20.28	ng	0.00
Spiked Amount 100.000			Recovery = 20.28%			
16) Phenol-d5	5.513	99	115444	20.13	ng	-0.01
Spiked Amount 100.000			Recovery = 20.13%			
32) Nitrobenzene-d5	6.271	128	22985	10.27	ng	0.00
Spiked Amount 50.000			Recovery = 20.54%			
55) 2-Fluorobiphenyl	7.675	172	102028	9.95	ng	0.00
Spiked Amount 50.000			Recovery = 19.90%			
80) 2,4,6-Tribromophenol	9.021	330	22527	19.84	ng	0.00
Spiked Amount 100.000			Recovery = 19.84%			
94) Terphenyl-d14	11.559	244	89720	10.50	ng	0.00
Spiked Amount 50.000			Recovery = 21.00%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.658	88	38854	20.6683	ng	98
9) Pyridine	3.128	79	73559	18.7354	ng	71
10) N-Nitrosodimethylamine	3.069	74	57228	18.5397	ng	75
12) Benzaldehyde	5.455	77	80557	18.9159	ng	74
13) Aniline	5.543	93	141377	20.0063	ng	89
14) Pentachloroethane	5.584	117	34512	20.3631	ng	84
15) bis(2-Chloroethyl)ether	5.601	93	94382	19.5839	ng	79
17) Phenol	5.525	94	134092	20.3566	ng	86
18) 2-Chlorophenol	5.648	128	97680	20.8749	ng	79
19) N-Decane	5.684	57	95581	24.8745	ng	91
20) 1,3-Dichlorobenzene	5.778	146	101753	19.4321	ng	98
22) 1,4-Dichlorobenzene	5.836	146	99667	20.7889	ng	97
23) 1,2-Dichlorobenzene	5.960	146	95709	21.1982	ng	97
24) Benzyl alcohol	5.936	108	67138	22.0514	ng	72
25) bis(2-chloroisopropyl)...	6.048	45	113971	29.6432	ng	98
26) 2-Methylphenol	6.030	108	90830	21.8901	ng	99
27) Acetophenone	6.154	105	137400	23.1476	ng	73
28) Hexachloroethane	6.236	117	40340	20.7879	ng	85
29) N-Nitroso-di-n-propyla...	6.148	70	67490	20.1218	ng	82
30) 3&4-Methylphenol	6.154	108	92664	21.4929	ng	100
33) Nitrobenzene	6.289	77	99932	18.3013	ng	76
34) Isophorone	6.477	82	188205	18.1784	ng	85
35) 2-Nitrophenol	6.536	139	53629	21.0725	ng	92
36) 2,4-Dimethylphenol	6.565	107	97258	18.4278	ng	93
37) Benzoic Acid	6.636	105	72723	15.8058	ng	44
38) bis(2-Chloroethoxy)met...	6.636	93	112903	19.4153	ng	96
39) 2,4-Dichlorophenol	6.724	162	80493	19.3559	ng	88
40) 1,2,4-Trichlorobenzene	6.788	180	81401	17.6228	ng	98
41) Naphthalene	6.853	128	274002	19.9839	ng	99
42) 4-Chloroaniline	6.888	127	116281m	22.3111	ng	
43) Hexachlorobutadiene	6.935	225	40590	14.0479	ng	95
44) Caprolactam	7.158	113	34817	22.0094	ng	70
45) 4-Chloro-3-methylphenol	7.258	107	87307	19.2600	ng	83
46) 2-Methylnaphthalene	7.388	142	187027	19.7199	ng	99
47) 1-Methylnaphthalene	7.470	142	173778	19.8335	ng	91
48) Methylnaphthalenes (To...	7.388	142	361304m	39.5340	ng	
49) 1,1'-Biphenyl	7.764	154	231348	19.6528	ng	95
51) 1,2,4,5-Tetrachloroben...	7.523	216	79040	17.9403	ng	99
52) Hexachlorocyclopentadiene	7.511	237	17955	7.1581	ng	96
53) 2,4,6-Trichlorophenol	7.611	196	56185	17.8028	ng	97
54) 2,4,5-Trichlorophenol	7.646	196	59733	18.1357	ng	99
56) 2-Chloronaphthalene	7.787	162	176195	20.4168	ng	94
57) 1,4-Dimethylnaphthalene	8.069	156	142207	19.9884	ng	92
58) Dimethylnaphthalenes (...	8.069	156	142207	19.9884	ng	92
59) Diphenyl Ether	7.852	170	127148	21.1202	ng	76
60) 2-Nitroaniline	7.869	65	66684	21.3747	ng	49
61) Coumarin	8.052	146	76033	21.7499	ng	86
62) Acenaphthylene	8.151	152	248841	20.4483	ng	99
63) Dimethylphthalate	8.010	163	205599	19.9543	ng	99
64) 2,6-Dinitrotoluene	8.069	165	46887	20.3167	ng	70
65) Acenaphthene	8.304	153	168881	20.0693	ng	96

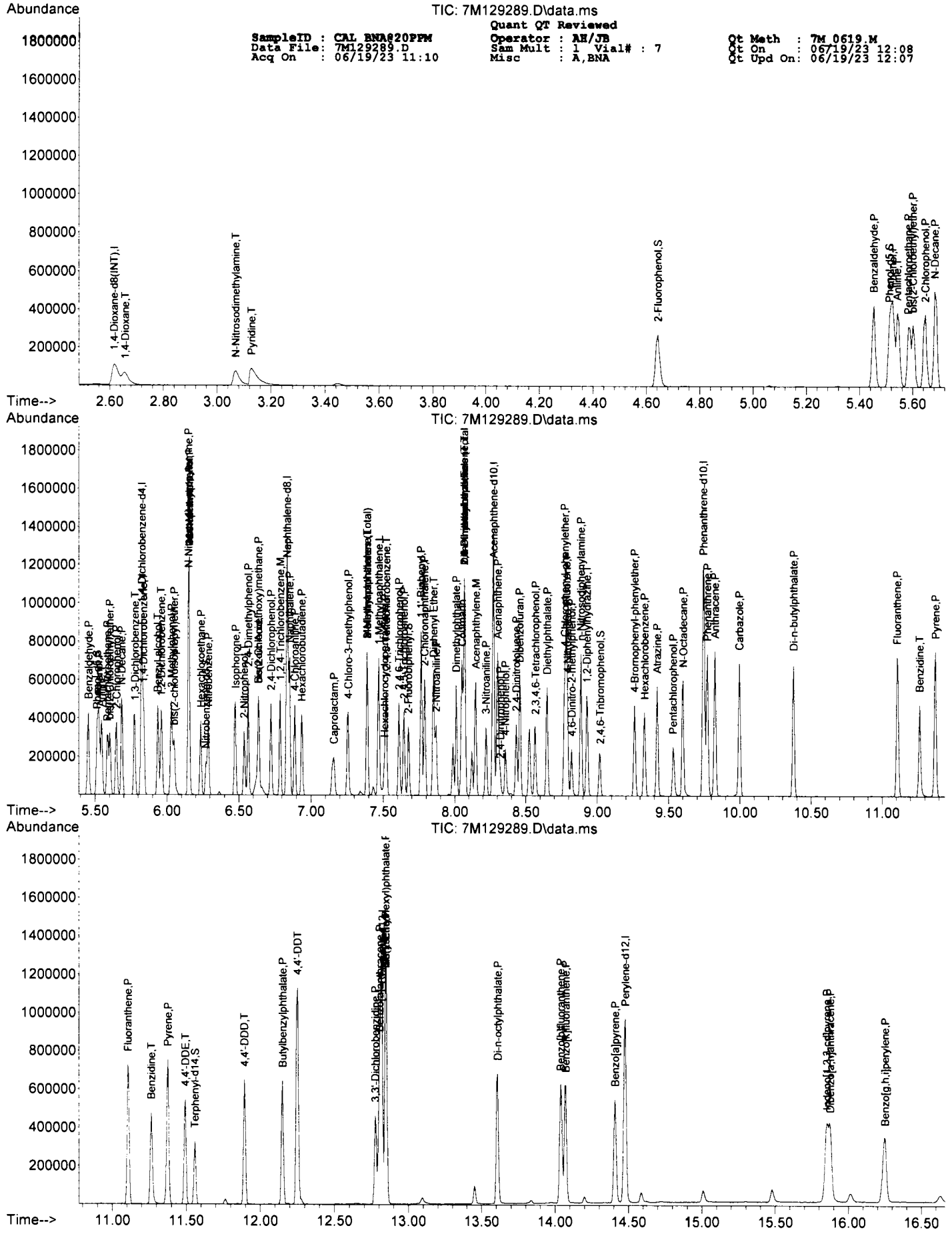
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@20PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129289.D Sam Mult : 1 Vial# : 7 Qt On : 06/19/23 12:08
Acq On : 06/19/23 11:10 Misc : A,BNA Qt Upd On: 06/19/23 12:07

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.222	138	55016	23.9173	ng	79
67)	2,4-Dinitrophenol	8.322	184	21994	19.6189	ng	35
68)	Dibenzofuran	8.457	168	249627	20.1127	ng	87
69)	2,4-Dinitrotoluene	8.433	165	65210	21.0600	ng	64
70)	4-Nitrophenol	8.357	65	35892	17.9031	ng	88
71)	2,3,4,6-Tetrachlorophenol	8.569	232	45471	16.3537	ng	88
72)	Fluorene	8.786	166	203469	19.9707	ng	99
73)	4-Chlorophenyl-phenyle...	8.774	204	95523	17.8890	ng	84
74)	Diethylphthalate	8.651	149	201968	19.5446	ng	96
75)	4-Nitroaniline	8.792	138	57595	22.7210	ng	76
76)	Atrazine	9.421	200	61530	19.9802	ng	98
78)	4,6-Dinitro-2-methylph...	8.821	198	32186	21.1631	ng	56
79)	n-Nitrosodiphenylamine	8.886	169	177568	21.6995	ng	98
81)	1,2-Diphenylhydrazine	8.927	77	207828	20.3193	ng	86
82)	4-Bromophenyl-phenylether	9.262	248	52792	18.3922	ng	91
83)	Hexachlorobenzene	9.332	284	55576	18.9037	ng	71
84)	N-Octadecane	9.603	57	109426	29.2292	ng	76
85)	Pentachlorophenol	9.532	266	28464	15.1363	ng	92
86)	Phenanthrene	9.773	178	284748	21.5017	ng	99
87)	Anthracene	9.826	178	294948	21.8085	ng	99
88)	Carbazole	9.996	167	289108	23.2393	ng	97
89)	Di-n-butylphthalate	10.378	149	358849	22.2409	ng	97
90)	Fluoranthene	11.107	202	315190	20.0441	ng	97
92)	Pyrene	11.377	202	324535	21.4482	ng	89
93)	Benzidine	11.265	184	193642	25.2993	ng	88
95)	4,4'-DDE	11.495	246	64746	18.8265	ng	94
96)	4,4'-DDD	11.894	235	122021	19.3205	ng	94
97)	Butylbenzylphthalate	12.153	149	159168	23.5066	ng	74
98)	4,4'-DDT	12.253	235	94913	19.8482	ng	95
99)	3,3'-Dichlorobenzidine	12.775	252	104205	21.4748	ng	97
100)	Benzo[a]anthracene	12.805	228	279249	19.7502	ng	98
101)	Chrysene	12.846	228	255842	19.7762	ng	97
102)	bis(2-Ethylhexyl)phtha...	12.846	149	206619	23.9078	ng	93
104)	Di-n-octylphthalate	13.610	149	377785	22.9797	ng	100
105)	Benzo[b]fluoranthene	14.039	252	268904m	18.6820	ng	
106)	Benzo[k]fluoranthene	14.074	252	258908	20.0416	ng	94
107)	Benzo[a]pyrene	14.409	252	233507	19.3014	ng	94
108)	Indeno[1,2,3-cd]pyrene	15.854	276	269446	18.7978	ng	88
109)	Dibenzo[a,h]anthracene	15.878	278	225561	18.9902	ng	92
110)	Benzo[g,h,i]perylene	16.254	276	219291	19.2652	ng	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 7M129289.D\data.ms
SampleID : CAL BNA@20PPM
Data File: 7M129289.D
Acq On : 06/19/23 11:10
Quant QT Reviewed
Operator : AE/JB
Sam Mult : 1 Vial# : 7
Misc : A,BNA
Qt Meth : 7M_0619.M
Qt On : 06/19/23 12:08
Qt Upd On: 06/19/23 12:07
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@80PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129293.D Sam Mult : 1 Vial# : 11 Qt On : 06/19/23 13:26
Acq On : 06/19/23 13:08 Misc : A,BNA Qt Upd On: 06/19/23 12:44

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.616	96	75624	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.825	152	119899	40.00	ng	0.00
31) Naphthalene-d8	6.835	136	489980	40.00	ng	0.00
50) Acenaphthene-d10	8.275	164	300270	40.00	ng	0.00
77) Phenanthrene-d10	9.749	188	517047	40.00	ng	0.00
91) Chrysene-d12	12.822	240	409943	40.00	ng	0.00
103) Perylene-d12	14.479	264	418743	40.00	ng	-0.01
System Monitoring Compounds						
11) 2-Fluorophenol	4.644	112	381377	79.19	ng	0.00
Spiked Amount 100.000			Recovery = 79.19%			
16) Phenol-d5	5.525	99	445452	78.57	ng	0.00
Spiked Amount 100.000			Recovery = 78.57%			
32) Nitrobenzene-d5	6.277	128	93215	39.11	ng	0.00
Spiked Amount 50.000			Recovery = 78.22%			
55) 2-Fluorobiphenyl	7.681	172	394224	38.11	ng	0.00
Spiked Amount 50.000			Recovery = 76.22%			
80) 2,4,6-Tribromophenol	9.021	330	96476	79.00	ng	0.00
Spiked Amount 100.000			Recovery = 79.00%			
94) Terphenyl-d14	11.559	244	369337	39.21	ng	0.00
Spiked Amount 50.000			Recovery = 78.42%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.658	88	157910	76.8268	ng	98
9) Pyridine	3.116	79	312077	80.6903	ng	71
10) N-Nitrosodimethylamine	3.069	74	240826	78.3536	ng	75
12) Benzaldehyde	5.454	77	300653	75.5561	ng	75
13) Aniline	5.548	93	520876	76.0102	ng	91
14) Pentachloroethane	5.590	117	130820	74.7995	ng	85
15) bis(2-Chloroethyl)ether	5.607	93	348499	74.1231	ng	81
17) Phenol	5.537	94	504710	78.2097	ng	91
18) 2-Chlorophenol	5.654	128	374454	77.0067	ng	78
19) N-Decane	5.689	57	339447	73.5774	ng	90
20) 1,3-Dichlorobenzene	5.778	146	372578	74.5963	ng	97
22) 1,4-Dichlorobenzene	5.842	146	369782	76.8073	ng	98
23) 1,2-Dichlorobenzene	5.966	146	352849	77.0303	ng	99
24) Benzyl alcohol	5.942	108	252113	77.5705	ng	77
25) bis(2-chloroisopropyl)...	6.048	45	410126	76.8956	ng	94
26) 2-Methylphenol	6.036	108	339230	78.7284	ng	96
27) Acetophenone	6.159	105	464406	73.8675	ng	74
28) Hexachloroethane	6.236	117	151581	76.6530	ng	85
29) N-Nitroso-di-n-propyla...	6.159	70	225566	72.9032	ng	83
30) 3&4-Methylphenol	6.159	108	313093	74.2098	ng	97
33) Nitrobenzene	6.295	77	378087	76.4915	ng	76
34) Isophorone	6.483	82	730321	77.3228	ng	86
35) 2-Nitrophenol	6.541	139	215059	80.1208	ng	87
36) 2,4-Dimethylphenol	6.571	107	368718	77.5473	ng	95
37) Benzoic Acid	6.676	105	331020	78.5433	ng	45
38) bis(2-Chloroethoxy)met...	6.641	93	422865	76.3867	ng	96
39) 2,4-Dichlorophenol	6.729	162	303103	78.6763	ng	87
40) 1,2,4-Trichlorobenzene	6.788	180	306078	76.7935	ng	98
41) Naphthalene	6.853	128	1034889	75.7867	ng	98
42) 4-Chloroaniline	6.888	127	358881m	68.4413	ng	
43) Hexachlorobutadiene	6.941	225	159635	77.8652	ng	97
44) Caprolactam	7.199	113	140830	79.2851	ng	69
45) 4-Chloro-3-methylphenol	7.264	107	340330	79.0701	ng	81
46) 2-Methylnaphthalene	7.387	142	692757	77.4903	ng	100
47) 1-Methylnaphthalene	7.470	142	642195	76.7980	ng	92
48) Methylnaphthalenes (To...	7.470	142	1338425m	154.6261	ng	
49) 1,1'-Biphenyl	7.769	154	842560	75.9358	ng	94
51) 1,2,4,5-Tetrachloroben...	7.523	216	305974	76.1165	ng	98
52) Hexachlorocyclopentadiene	7.511	237	98058	82.4668	ng	99
53) 2,4,6-Trichlorophenol	7.617	196	222677	75.0505	ng	100
54) 2,4,5-Trichlorophenol	7.652	196	240113	76.9628	ng	99
56) 2-Chloronaphthalene	7.793	162	666826	75.2793	ng	91
57) 1,4-Dimethylnaphthalene	8.075	156	499990	72.8758	ng	88
58) Dimethylnaphthalenes (...	8.075	156	499990	72.8758	ng	88
59) Diphenyl Ether	7.852	170	482383	75.4969	ng	77
60) 2-Nitroaniline	7.875	65	245077	74.3321	ng	47
61) Coumarin	8.063	146	272443	75.1713	ng	74
62) Acenaphthylene	8.157	152	947822	75.9419	ng	99
63) Dimethylphthalate	8.022	163	780641	75.2069	ng	98
64) 2,6-Dinitrotoluene	8.081	165	162950	71.9846	ng	59
65) Acenaphthene	8.304	153	640088	75.2530	ng	99

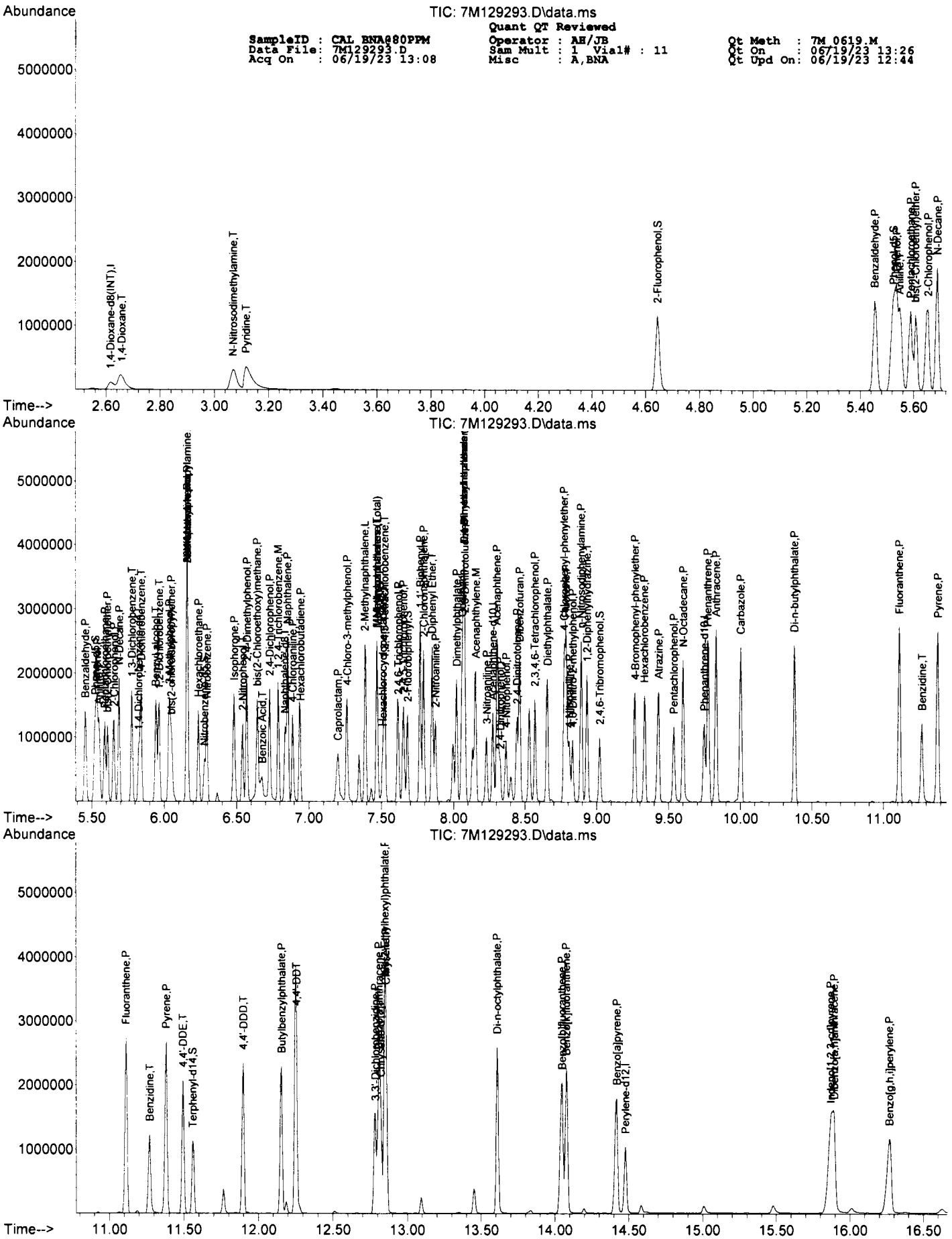
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@80PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129293.D Sam Mult : 1 Vial# : 11 Qt On : 06/19/23 13:26
Acq On : 06/19/23 13:08 Misc : A,BNA **Qt Upd On: 06/19/23 12:44**

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.233	138	185006	68.3024	ng	75
67)	2,4-Dinitrophenol	8.328	184	106241	74.2375	ng	34
68)	Dibenzofuran	8.463	168	951420	75.1217	ng	85
69)	2,4-Dinitrotoluene	8.445	165	261721	78.9997	ng	59
70)	4-Nitrophenol	8.369	65	166333	81.5947	ng	86
71)	2,3,4,6-Tetrachlorophenol	8.568	232	189238	78.9958	ng	86
72)	Fluorene	8.786	166	769357	75.7204	ng	98
73)	4-Chlorophenyl-phenyle...	8.774	204	376503	77.6709	ng	84
74)	Diethylphthalate	8.657	149	778871	76.6167	ng	96
75)	4-Nitroaniline	8.809	138	224560	76.4387	ng	75
76)	Atrazine	9.432	200	244523	78.0364	ng	97
78)	4,6-Dinitro-2-methylph...	8.833	198	144700	80.7775	ng	64
79)	n-Nitrosodiphenylamine	8.892	169	684406	76.4092	ng	99
81)	1,2-Diphenylhydrazine	8.933	77	850866	77.2128	ng	82
82)	4-Bromophenyl-phenylether	9.268	248	221151	79.1520	ng	84
83)	Hexachlorobenzene	9.332	284	232037	78.9711	ng	69
84)	N-Octadecane	9.603	57	390581	75.0413	ng	74
85)	Pentachlorophenol	9.538	266	140503	83.2954	ng	97
86)	Phenanthrene	9.773	178	1115515	77.2605	ng	99
87)	Anthracene	9.832	178	1132990	76.9916	ng	99
88)	Carbazole	10.002	167	1114507	77.2946	ng	97
89)	Di-n-butylphthalate	10.378	149	1389134	77.7265	ng	98
90)	Fluoranthene	11.113	202	1262305	79.5233	ng	92
92)	Pyrene	11.383	202	1252590	77.5283	ng	88
93)	Benzidine	11.271	184	542520	58.4420	ng	87
95)	4,4'-DDE	11.494	246	255284	76.9705	ng	95
96)	4,4'-DDD	11.900	235	480775	78.5168	ng	94
97)	Butylbenzylphthalate	12.158	149	616143	77.4689	ng	71
98)	4,4'-DDT	12.258	235	343046	75.3664	ng	98
99)	3,3'-Dichlorobenzidine	12.787	252	380356	72.5421	ng	96
100)	Benzo[a]anthracene	12.811	228	1107254	77.5892	ng	99
101)	Chrysene	12.858	228	946608	75.8462	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.852	149	746934	74.5912	ng	91
104)	Di-n-octylphthalate	13.610	149	1460764	77.1719	ng	99
105)	Benzo[b]fluoranthene	14.050	252	1086514	76.7600	ng	94
106)	Benzo[k]fluoranthene	14.080	252	1028171	78.7737	ng	95
107)	Benzo[a]pyrene	14.420	252	957346	78.1694	ng	92
108)	Indeno[1,2,3-cd]pyrene	15.872	276	1127328	79.6036	ng	86
109)	Dibenzo[a,h]anthracene	15.895	278	925288	78.7098	ng	89
110)	Benzo[g,h,i]perylene	16.271	276	916172	78.2832	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed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Data File: 7M129293.D
Acq On : 06/19/23 13:08
Quant QT Reviewed
Operator : AH/JB
Sam Mult : 1 Vial# : 11
Misc : A,BNA
Qt Meth : 7M_0619.M
Qt On : 06/19/23 13:26
Qt Upd On: 06/19/23 12:44
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->
Abundance
TIC: 7M129293.D\data.ms
Benzaldehyde,P
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Methylnaphthalene,I
Isophorone,P
Benzoic Acid,T
Dimethylphthalate,P
Acenaphthylene,M
Acenaphthene,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->
Abundance
TIC: 7M129293.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@120PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129287.D Sam Mult : 1 Vial# : 5 Qt On : 06/19/23 12:08
Acq On : 06/19/23 10:23 Misc : A,BNA Qt Upd On: 06/19/23 12:07

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.617	96	58375	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.825	152	92509	40.00	ng	0.00
31) Naphthalene-d8	6.841	136	370507	40.00	ng	0.00
50) Acenaphthene-d10	8.281	164	218963	40.00	ng	0.00
77) Phenanthrene-d10	9.750	188	382412	40.00	ng	0.00
91) Chrysene-d12	12.828	240	292670	40.00	ng	0.00
103) Perylene-d12	14.491	264	304562	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.650	112	415298	115.28	ng	0.00
Spiked Amount 100.000			Recovery = 115.28%			
16) Phenol-d5	5.525	99	476727	105.38	ng	0.00
Spiked Amount 100.000			Recovery = 105.38%			
32) Nitrobenzene-d5	6.277	128	99325	60.45	ng	0.00
Spiked Amount 50.000			Recovery = 120.90%			
55) 2-Fluorobiphenyl	7.681	172	415464	54.29	ng	0.00
Spiked Amount 50.000			Recovery = 108.58%			
80) 2,4,6-Tribromophenol	9.027	330	101509	117.38	ng	0.00
Spiked Amount 100.000			Recovery = 117.38%			
94) Terphenyl-d14	11.565	244	382211	63.86	ng	0.00
Spiked Amount 50.000			Recovery = 127.72%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.652	88	177780	119.8716	ng	99
9) Pyridine	3.116	79	345429	111.5194	ng	71
10) N-Nitrosodimethylamine	3.069	74	265470	109.0116	ng	73
12) Benzaldehyde	5.455	77	337944	100.5846	ng	76
13) Aniline	5.549	93	572601	102.7077	ng	91
14) Pentachloroethane	5.590	117	145051	108.4822	ng	86
15) bis(2-Chloroethyl)ether	5.613	93	376972	99.1480	ng	76
17) Phenol	5.537	94	537568	103.4427	ng	92
18) 2-Chlorophenol	5.654	128	404226	109.4981	ng	80
19) N-Decane	5.690	57	372855	122.9946	ng	90
20) 1,3-Dichlorobenzene	5.778	146	410314	99.3238	ng	98
22) 1,4-Dichlorobenzene	5.842	146	406552	112.4642	ng	96
23) 1,2-Dichlorobenzene	5.966	146	383946	112.7808	ng	98
24) Benzyl alcohol	5.948	108	274788	119.6970	ng	70
25) bis(2-chloroisopropyl)...	6.048	45	436913	150.7105	ng	93
26) 2-Methylphenol	6.036	108	360324	115.1674	ng	97
27) Acetophenone	6.160	105	499866	111.6840	ng	73
28) Hexachloroethane	6.236	117	167118	114.2133	ng	83
29) N-Nitroso-di-n-propyla...	6.160	70	240284	95.0101	ng	82
30) 3&4-Methylphenol	6.160	108	334680	102.9512	ng	94
33) Nitrobenzene	6.295	77	404488	100.8898	ng	78
34) Isophorone	6.483	82	770982	101.4221	ng	88
35) 2-Nitrophenol	6.542	139	228207	122.1260	ng	90
36) 2,4-Dimethylphenol	6.571	107	387076	99.8866	ng	96
37) Benzoic Acid	6.677	105	360612	106.7452	ng	54
38) bis(2-Chloroethoxy)met...	6.647	93	451409	105.7239	ng	95
39) 2,4-Dichlorophenol	6.730	162	323904	106.0805	ng	90
40) 1,2,4-Trichlorobenzene	6.794	180	330443	97.4330	ng	98
41) Naphthalene	6.859	128	1083009	107.5778	ng	99
42) 4-Chloroaniline	6.894	127	432299m	112.9694	ng	
43) Hexachlorobutadiene	6.941	225	174139	82.0828	ng	97
44) Caprolactam	7.205	113	147555	127.0384	ng	71
45) 4-Chloro-3-methylphenol	7.264	107	359683	108.0663	ng	86
46) 2-Methylnaphthalene	7.393	142	736524	105.7673	ng	100
47) 1-Methylnaphthalene	7.476	142	684069	106.3331	ng	93
48) Methylnaphthalenes (To...	7.393	142	1420220m	211.6494	ng	
49) 1,1'-Biphenyl	7.769	154	897680	103.8592	ng	95
51) 1,2,4,5-Tetrachloroben...	7.529	216	320578	97.5173	ng	98
52) Hexachlorocyclopentadiene	7.517	237	117113	62.5726	ng	99
53) 2,4,6-Trichlorophenol	7.617	196	235452	99.9852	ng	99
54) 2,4,5-Trichlorophenol	7.652	196	253807	103.2735	ng	98
56) 2-Chloronaphthalene	7.799	162	705474	109.5572	ng	91
57) 1,4-Dimethylnaphthalene	8.081	156	523472	98.6086	ng	89
58) Dimethylnaphthalenes (...	8.081	156	523472	98.6086	ng	89
59) Diphenyl Ether	7.858	170	501677	111.6805	ng	76
60) 2-Nitroaniline	7.875	65	257173	110.4760	ng	57
61) Coumarin	8.069	146	283380	108.6400	ng	74
62) Acenaphthylene	8.157	152	987088	108.7068	ng	98
63) Dimethylphthalate	8.028	163	817167	106.2898	ng	98
64) 2,6-Dinitrotoluene	8.087	165	170892	99.2403	ng	55
65) Acenaphthene	8.310	153	674237	107.3813	ng	98

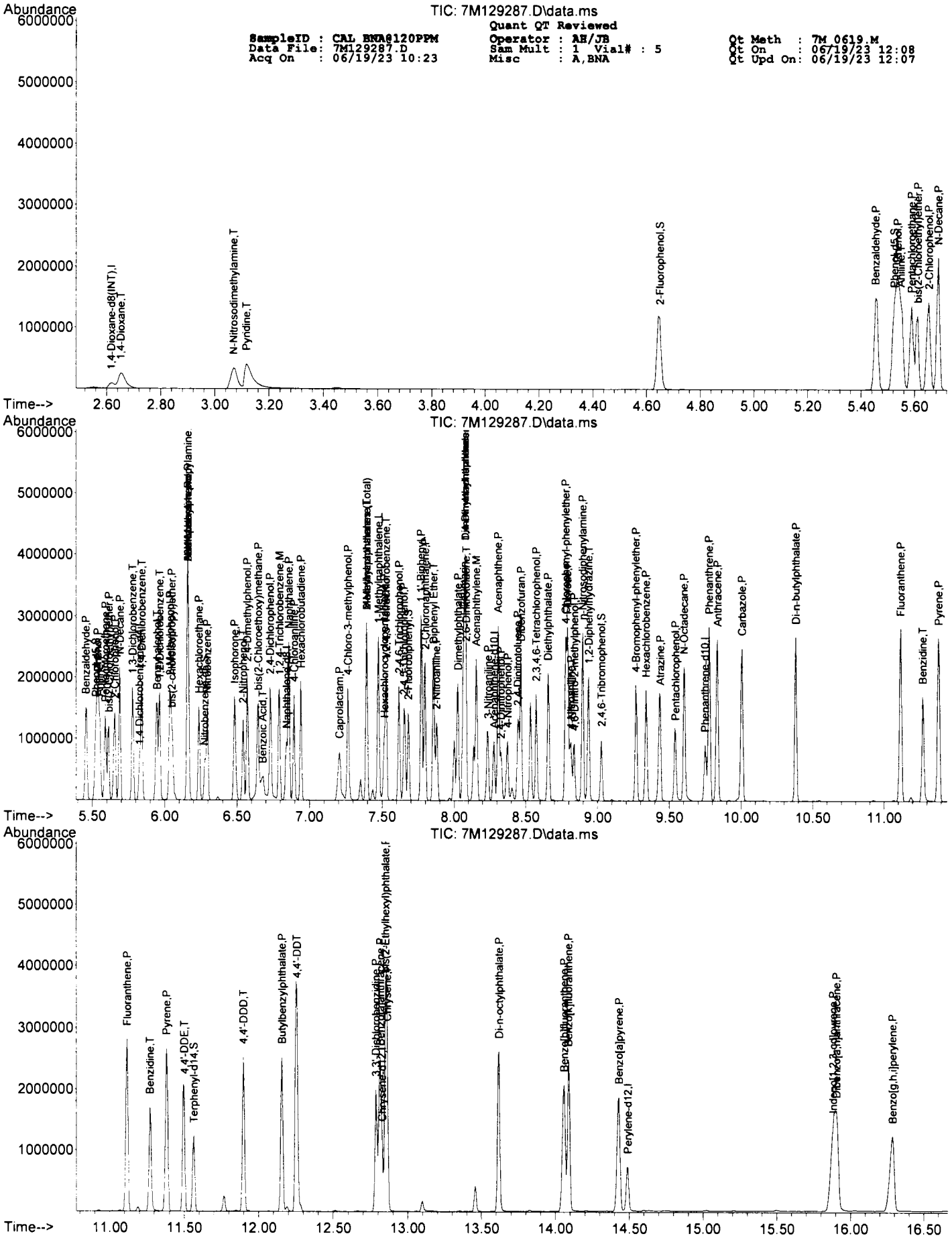
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@120PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129287.D Sam Mult : 1 Vial# : 5 Qt On : 06/19/23 12:08
Acq On : 06/19/23 10:23 Misc : A,BNA Qt Upd On: 06/19/23 12:07

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.240	138	215402	125.4981	ng	73
67)	2,4-Dinitrophenol	8.328	184	112830	115.5518	ng	44
68)	Dibenzofuran	8.469	168	991042	107.0128	ng	85
69)	2,4-Dinitrotoluene	8.445	165	276894	119.8455	ng	65
70)	4-Nitrophenol	8.375	65	170804	114.1808	ng	83
71)	2,3,4,6-Tetrachlorophenol	8.574	232	197940	95.4072	ng	86
72)	Fluorene	8.792	166	797958	104.9639	ng	99
73)	4-Chlorophenyl-phenyle...	8.780	204	392258	98.4495	ng	82
74)	Diethylphthalate	8.657	149	813628	105.5199	ng	97
75)	4-Nitroaniline	8.815	138	236599	125.0894	ng	75
76)	Atrazine	9.438	200	254310	110.6726	ng	97
78)	4,6-Dinitro-2-methylph...	8.839	198	153845	132.8357	ng	67
79)	n-Nitrosodiphenylamine	8.898	169	718024	115.2238	ng	97
81)	1,2-Diphenylhydrazine	8.939	77	885838	113.7310	ng	80
82)	4-Bromophenyl-phenylether	9.268	248	233772	106.9494	ng	88
83)	Hexachlorobenzene	9.338	284	242557	108.3412	ng	66
84)	N-Octadecane	9.603	57	412824	144.8040	ng	77
85)	Pentachlorophenol	9.544	266	146042	101.9811	ng	97
86)	Phenanthrene	9.779	178	1151770	114.2083	ng	100
87)	Anthracene	9.838	178	1177631	114.3427	ng	99
88)	Carbazole	10.008	167	1155337	121.9527	ng	97
89)	Di-n-butylphthalate	10.384	149	1436617	116.9230	ng	98
90)	Fluoranthene	11.119	202	1292738	107.9553	ng	91
92)	Pyrene	11.383	202	1294981	122.1428	ng	89
93)	Benzidine	11.271	184	723794	134.9583	ng	88
95)	4,4'-DDE	11.501	246	269196	111.7121	ng	95
96)	4,4'-DDD	11.900	235	493883	111.6045	ng	94
97)	Butylbenzylphthalate	12.159	149	643621	135.6559	ng	72
98)	4,4'-DDT	12.258	235	363033	108.3471	ng	97
99)	3,3'-Dichlorobenzidine	12.787	252	426116	125.3265	ng	97
100)	Benzo[a]anthracene	12.817	228	1145975	115.6722	ng	98
101)	Chrysene	12.864	228	975846	107.6535	ng	98
102)	bis(2-Ethylhexyl)phtha...	12.852	149	788340	130.1842	ng	93
104)	Di-n-octylphthalate	13.622	149	1521104	124.9488	ng	100
105)	Benzo[b]fluoranthene	14.062	252	1123602	105.4178	ng	94
106)	Benzo[k]fluoranthene	14.092	252	1066513m	111.4878	ng	
107)	Benzo[a]pyrene	14.432	252	1006419	112.3419	ng	92
108)	Indeno[1,2,3-cd]pyrene	15.884	276	1157302	109.0326	ng	86
109)	Dibenzo[a,h]anthracene	15.907	278	949140	107.9123	ng	90
110)	Benzo[g,h,i]perylene	16.289	276	957653	113.6149	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 7M129287.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@120PPM
Data File: 7M129287.D
Acq On : 06/19/23 10:23
Operator : AE/JB
Sam Mult : 1 Vial# : 5
Misc : A,BNA
Qt Meth : 7M_0619.M
Qt On : 06/19/23 12:08
Qt Upd On: 06/19/23 12:07
Abundance
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@160PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129286.D Sam Mult : 1 Vial# : 4 Qt On : 06/19/23 12:08
Acq On : 06/19/23 10:00 Misc : A,BNA Qt Upd On: 06/19/23 12:07

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.616	96	58033	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.830	152	89948	40.00	ng	0.00
31) Naphthalene-d8	6.841	136	362779	40.00	ng	0.00
50) Acenaphthene-d10	8.281	164	214980	40.00	ng	0.00
77) Phenanthrene-d10	9.749	188	374761	40.00	ng	0.00
91) Chrysene-d12	12.828	240	290491	40.00	ng	0.00
103) Perylene-d12	14.497	264	303314	40.00	ng	0.01
System Monitoring Compounds						
11) 2-Fluorophenol	4.649	112	546591	152.62	ng	0.00
Spiked Amount 100.000			Recovery = 152.62%			
16) Phenol-d5	5.531	99	616247	137.02	ng	0.00
Spiked Amount 100.000			Recovery = 137.02%			
32) Nitrobenzene-d5	6.283	128	131948	82.01	ng	0.00
Spiked Amount 50.000			Recovery = 164.02%			
55) 2-Fluorobiphenyl	7.681	172	541458	72.06	ng	0.00
Spiked Amount 50.000			Recovery = 144.12%			
80) 2,4,6-Tribromophenol	9.027	330	138060	162.91	ng	0.00
Spiked Amount 100.000			Recovery = 162.91%			
94) Terphenyl-d14	11.565	244	499599	84.10	ng	0.00
Spiked Amount 50.000			Recovery = 168.20%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.658	88	236742	160.5686	ng	100
9) Pyridine	3.116	79	460961	149.6951	ng	70
10) N-Nitrosodimethylamine	3.075	74	350442	144.7523	ng	74
12) Benzaldehyde	5.460	77	435735	130.4550	ng	75
13) Aniline	5.554	93	724807	130.7751	ng	91
14) Pentachloroethane	5.589	117	188650	141.9209	ng	87
15) bis(2-Chloroethyl)ether	5.613	93	485956	128.5653	ng	79
17) Phenol	5.542	94	680195	131.6593	ng	98
18) 2-Chlorophenol	5.654	128	528097	143.8957	ng	81
19) N-Decane	5.689	57	470632	156.1635	ng	88
20) 1,3-Dichlorobenzene	5.777	146	532447	129.6479	ng	99
22) 1,4-Dichlorobenzene	5.842	146	523765	149.0140	ng	97
23) 1,2-Dichlorobenzene	5.966	146	491148	148.3782	ng	98
24) Benzyl alcohol	5.948	108	352081	157.7323	ng	75
25) bis(2-chloroisopropyl)...	6.054	45	552438	195.9858	ng	94
26) 2-Methylphenol	6.036	108	466804	153.4488	ng	97
27) Acetophenone	6.165	105	638280	146.6699	ng	72
28) Hexachloroethane	6.236	117	216823	152.4022	ng	82
29) N-Nitroso-di-n-propyla...	6.165	70	301292	122.5251	ng	79
30) 3&4-Methylphenol	6.165	108	420606	133.0668	ng	100
33) Nitrobenzene	6.300	77	522033	132.9823	ng	76
34) Isophorone	6.488	82	1027059	137.9869	ng	84
35) 2-Nitrophenol	6.541	139	297475	162.5863	ng	91
36) 2,4-Dimethylphenol	6.577	107	504726	133.0212	ng	95
37) Benzoic Acid	6.694	105	481781m	145.6506	ng	
38) bis(2-Chloroethoxy)met...	6.647	93	587213	140.4600	ng	96
39) 2,4-Dichlorophenol	6.735	162	418143	139.8616	ng	87
40) 1,2,4-Trichlorobenzene	6.794	180	429085	129.2133	ng	97
41) Naphthalene	6.859	128	1419559	144.0118	ng	97
42) 4-Chloroaniline	6.894	127	539995m	144.1188	ng	
43) Hexachlorobutadiene	6.941	225	227015	109.2862	ng	97
44) Caprolactam	7.217	113	211366	185.8534	ng	68
45) 4-Chloro-3-methylphenol	7.270	107	464579	142.5555	ng	82
46) 2-Methylnaphthalene	7.393	142	954964	140.0573	ng	98
47) 1-Methylnaphthalene	7.476	142	878659	139.4900	ng	92
48) Methylnaphthalenes (To...	7.393	142	1833966m	279.1302	ng	
49) 1,1'-Biphenyl	7.775	154	1173602	138.6751	ng	94
51) 1,2,4,5-Tetrachloroben...	7.528	216	425648	131.8776	ng	98
52) Hexachlorocyclopentadiene	7.517	237	165175	89.8868	ng	98
53) 2,4,6-Trichlorophenol	7.617	196	315551	136.4820	ng	98
54) 2,4,5-Trichlorophenol	7.658	196	338968	140.4807	ng	98
56) 2-Chloronaphthalene	7.799	162	897809	142.0092	ng	91
57) 1,4-Dimethylnaphthalene	8.081	156	663263	127.2565	ng	87
58) Dimethylnaphthalenes (...	8.081	156	663263	127.2565	ng	87
59) Diphenyl Ether	7.857	170	660361	149.7295	ng	77
60) 2-Nitroaniline	7.881	65	335660	146.8638	ng	50
61) Coumarin	8.075	146	350514	136.8670	ng	73
62) Acenaphthylene	8.163	152	1280351	143.6159	ng	99
63) Dimethylphthalate	8.028	163	1076306	142.5900	ng	98
64) 2,6-Dinitrotoluene	8.087	165	223948	132.4605	ng	63
65) Acenaphthene	8.310	153	886988	143.8821	ng	98

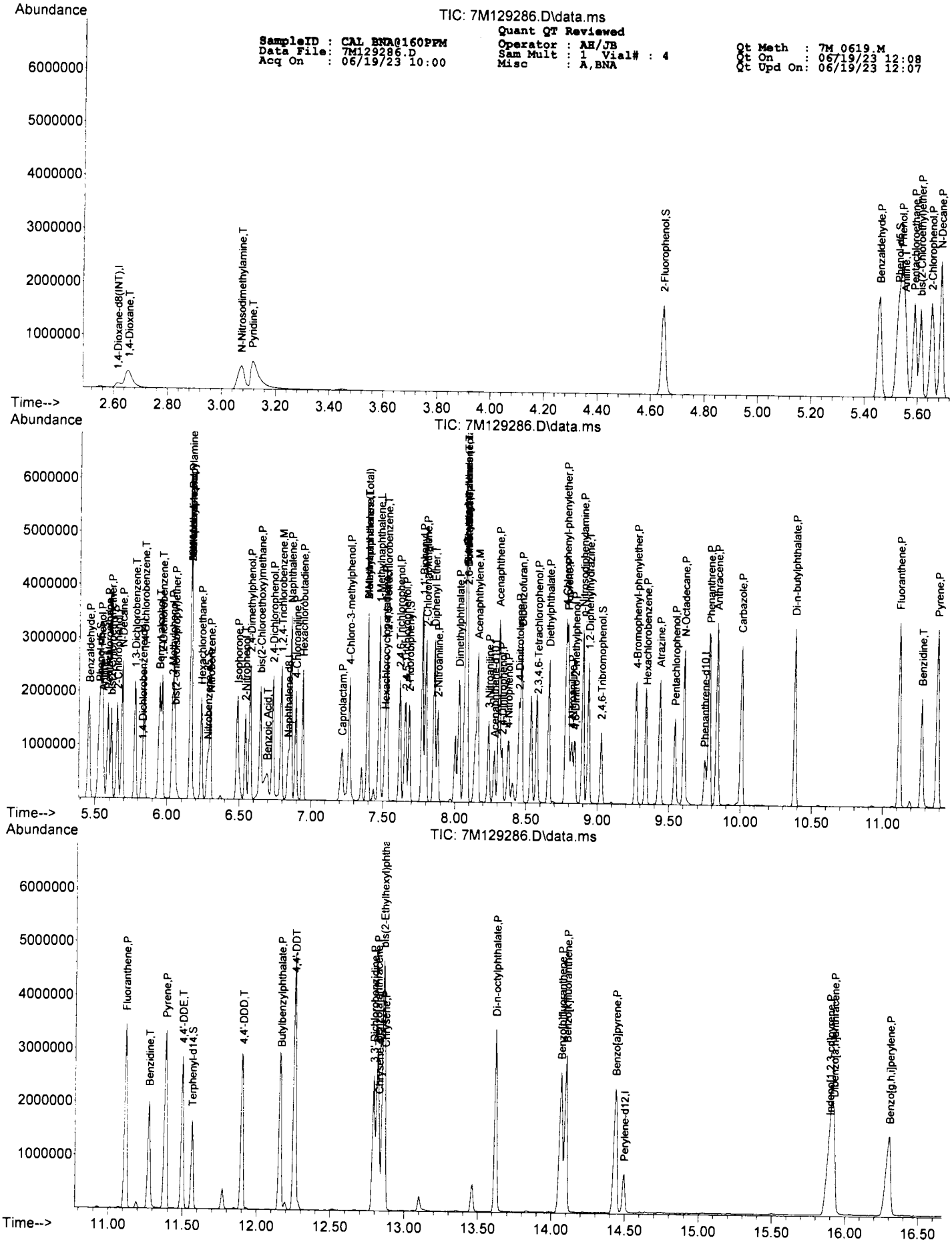
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@160PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129286.D Sam Mult : 1 Vial# : 4 Qt On : 06/19/23 12:08
Acq On : 06/19/23 10:00 Misc : A,BNA **Qt Upd On: 06/19/23 12:07**

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.239	138	271353	161.0256	ng	77
67)	2,4-Dinitrophenol	8.333	184	154004	152.2842	ng	34
68)	Dibenzofuran	8.469	168	1281046	140.8903	ng	86
69)	2,4-Dinitrotoluene	8.451	165	356695	157.2453	ng	64
70)	4-Nitrophenol	8.374	65	223584	152.2329	ng	87
71)	2,3,4,6-Tetrachlorophenol	8.580	232	267792	131.4673	ng	84
72)	Fluorene	8.792	166	1046008	140.1418	ng	97
73)	4-Chlorophenyl-phenyle...	8.780	204	509012	130.1196	ng	83
74)	Diethylphthalate	8.662	149	1053324	139.1372	ng	95
75)	4-Nitroaniline	8.821	138	309498	166.6627	ng	76
76)	Atrazine	9.438	200	334904	148.4464	ng	97
78)	4,6-Dinitro-2-methylph...	8.845	198	203306	179.1261	ng	69
79)	n-Nitrosodiphenylamine	8.897	169	929186	152.1539	ng	98
81)	1,2-Diphenylhydrazine	8.939	77	1138065	149.0970	ng	80
82)	4-Bromophenyl-phenylether	9.273	248	301265	140.6409	ng	84
83)	Hexachlorobenzene	9.344	284	322786	147.1200	ng	60
84)	N-Octadecane	9.608	57	527069	188.6515	ng	74
85)	Pentachlorophenol	9.544	266	200778	143.0655	ng	96
86)	Phenanthrene	9.785	178	1485159	150.2734	ng	99
87)	Anthracene	9.838	178	1528556	151.4460	ng	98
88)	Carbazole	10.008	167	1501035	161.6779	ng	97
89)	Di-n-butylphthalate	10.384	149	1861496	154.5960	ng	98
90)	Fluoranthene	11.118	202	1679625	143.1274	ng	92
92)	Pyrene	11.389	202	1669969	158.6932	ng	87
93)	Benzidine	11.277	184	903957	169.8157	ng	87
95)	4,4'-DDE	11.500	246	355995	148.8404	ng	94
96)	4,4'-DDD	11.906	235	641641	146.0815	ng	94
97)	Butylbenzylphthalate	12.164	149	826696	175.5496	ng	69
98)	4,4'-DDT	12.258	235	466484	140.2664	ng	98
99)	3,3'-Dichlorobenzidine	12.793	252	543505	161.0513	ng	96
100)	Benzo[a]anthracene	12.816	228	1482320	150.7445	ng	99
101)	Chrysene	12.869	228	1256472	139.6514	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.858	149	995151	165.5690	ng	91
104)	Di-n-octylphthalate	13.621	149	1919268	158.3041	ng	99
105)	Benzo[b]fluoranthene	14.068	252	1590858m	149.8705	ng	
106)	Benzo[k]fluoranthene	14.103	252	1251501m	131.3638	ng	
107)	Benzo[a]pyrene	14.438	252	1308814	146.6979	ng	93
108)	Indeno[1,2,3-cd]pyrene	15.895	276	1509003	142.7522	ng	84
109)	Dibenzo[a,h]anthracene	15.925	278	1246221	142.2719	ng	89
110)	Benzo[g,h,i]perylene	16.307	276	1250386	148.9548	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 7M129286.D\data.ms
SampleID : CAL BNA@160PPM
Data File: 7M129286.D
Acq On : 06/19/23 10:00
Quant QT Reviewed
Operator : AH/JB
Sam Mult : 1 Vial# : 4
Misc : A,BNA
Qt Meth : 7M_0619.M
Qt On : 06/19/23 12:08
Qt Upd On: 06/19/23 12:07
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
N-Decane,P
Time-->
Abundance
TIC: 7M129286.D\data.ms
Benzaldehyde,P
Caprolactam,P
4-Chloro-3-methylphenol,P
Acenaphthene,P
Dimethylphthalate,P
Diethylphthalate,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->
Abundance
TIC: 7M129286.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
bis(2-Ethylhexyl)phtha
Di-n-octylphthalate,P
Benzo(a)pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@196PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129285.D Sam Mult : 1 Vial# : 3 Qt On : 06/19/23 12:07
Acq On : 06/19/23 09:36 Misc : A,BNA Qt Upd On: 06/19/23 12:07

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.617	96	71956	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.831	152	110326	40.00	ng	0.00
31) Naphthalene-d8	6.847	136	455871	40.00	ng	0.01
50) Acenaphthene-d10	8.287	164	283868	40.00	ng	0.01
77) Phenanthrene-d10	9.755	188	499024	40.00	ng	0.00
91) Chrysene-d12	12.840	240	363392	40.00	ng	0.01
103) Perylene-d12	14.491	264	384115	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.650	112	854706	192.48	ng	0.00
Spiked Amount 100.000			Recovery = 192.48%			
16) Phenol-d5	5.543	99	943087	169.12	ng	0.02
Spiked Amount 100.000			Recovery = 169.12%			
32) Nitrobenzene-d5	6.289	128	211818	104.77	ng	0.01
Spiked Amount 50.000			Recovery = 209.54%			
55) 2-Fluorobiphenyl	7.687	172	876352	88.33	ng	0.00
Spiked Amount 50.000			Recovery = 176.66%			
80) 2,4,6-Tribromophenol	9.039	330	248847	220.51	ng	0.01
Spiked Amount 100.000			Recovery = 220.51%			
94) Terphenyl-d14	11.571	244	860805	115.83	ng	0.00
Spiked Amount 50.000			Recovery = 231.66%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.658	88	376409	205.8985	ng	98
9) Pyridine	3.122	79	732293	191.7946	ng	71
10) N-Nitrosodimethylamine	3.087	74	569154	189.6038	ng	74
12) Benzaldehyde	5.460	77	584421	141.1147	ng	76
13) Aniline	5.560	93	964979	140.4198	ng	97
14) Pentachloroethane	5.596	117	280447	170.1564	ng	85
15) bis(2-Chloroethyl)ether	5.619	93	794488	169.5204	ng	81
17) Phenol	5.554	94	993727	155.1291	ng	88
18) 2-Chlorophenol	5.660	128	816577	179.4483	ng	81
19) N-Decane	5.695	57	685824	183.5349	ng	87
20) 1,3-Dichlorobenzene	5.784	146	791737	155.4812	ng	99
22) 1,4-Dichlorobenzene	5.848	146	768482	178.2535	ng	99
23) 1,2-Dichlorobenzene	5.972	146	711033	175.1302	ng	98
24) Benzyl alcohol	5.954	108	547163	199.8519	ng	73
25) bis(2-chloroisopropyl)...	6.060	45	795987	230.2294	ng	93
26) 2-Methylphenol	6.042	108	718690	192.6124	ng	98
27) Acetophenone	6.171	105	965250	180.8353	ng	68
28) Hexachloroethane	6.242	117	332243	190.3949	ng	86
29) N-Nitroso-di-n-propyla...	6.177	70	471114	156.1986	ng	83
30) 3&4-Methylphenol	6.177	108	623598	160.8468	ng	100
33) Nitrobenzene	6.307	77	821607	166.5559	ng	77
34) Isophorone	6.495	82	1704743	182.2643	ng	87
35) 2-Nitrophenol	6.547	139	472181	205.3724	ng	91
36) 2,4-Dimethylphenol	6.589	107	812135	170.3310	ng	95
37) Benzoic Acid	6.735	105	759186	182.6464	ng	48
38) bis(2-Chloroethoxy)met...	6.653	93	927506	176.5525	ng	96
39) 2,4-Dichlorophenol	6.741	162	649395	172.8553	ng	89
40) 1,2,4-Trichlorobenzene	6.794	180	671094	160.8227	ng	98
41) Naphthalene	6.865	128	2135987	172.4422	ng	97
42) 4-Chloroaniline	6.900	127	703291m	149.3709	ng	
43) Hexachlorobutadiene	6.947	225	360239	138.0071	ng	97
44) Caprolactam	7.247	113	351500	245.9580	ng	66
45) 4-Chloro-3-methylphenol	7.276	107	753827	184.0757	ng	83
46) 2-Methylnaphthalene	7.399	142	1467039	171.2224	ng	99
47) 1-Methylnaphthalene	7.482	142	1381039	174.4732	ng	92
48) Methylnaphthalenes (To...	7.399	142	2847941m	344.9425	ng	
49) 1,1'-Biphenyl	7.781	154	1826807	171.7792	ng	93
51) 1,2,4,5-Tetrachloroben...	7.535	216	677739	159.0247	ng	99
52) Hexachlorocyclopentadiene	7.517	237	305891	126.0665	ng	99
53) 2,4,6-Trichlorophenol	7.623	196	522526	171.1573	ng	98
54) 2,4,5-Trichlorophenol	7.664	196	562023	176.3980	ng	98
56) 2-Chloronaphthalene	7.805	162	1430892	171.4040	ng	92
57) 1,4-Dimethylnaphthalene	8.087	156	1012418	147.1077	ng	86
58) Dimethylnaphthalenes (...	8.087	156	1012418	147.1077	ng	86
59) Diphenyl Ether	7.864	170	1055845	181.3041	ng	75
60) 2-Nitroaniline	7.887	65	546257	181.0064	ng	50
61) Coumarin	8.087	146	519461	153.6130	ng	75
62) Acenaphthylene	8.169	152	1997062	169.6472	ng	97
63) Dimethylphthalate	8.046	163	1798899	180.4852	ng	98
64) 2,6-Dinitrotoluene	8.104	165	367064	164.4230	ng	54
65) Acenaphthene	8.322	153	1401639	172.1895	ng	99

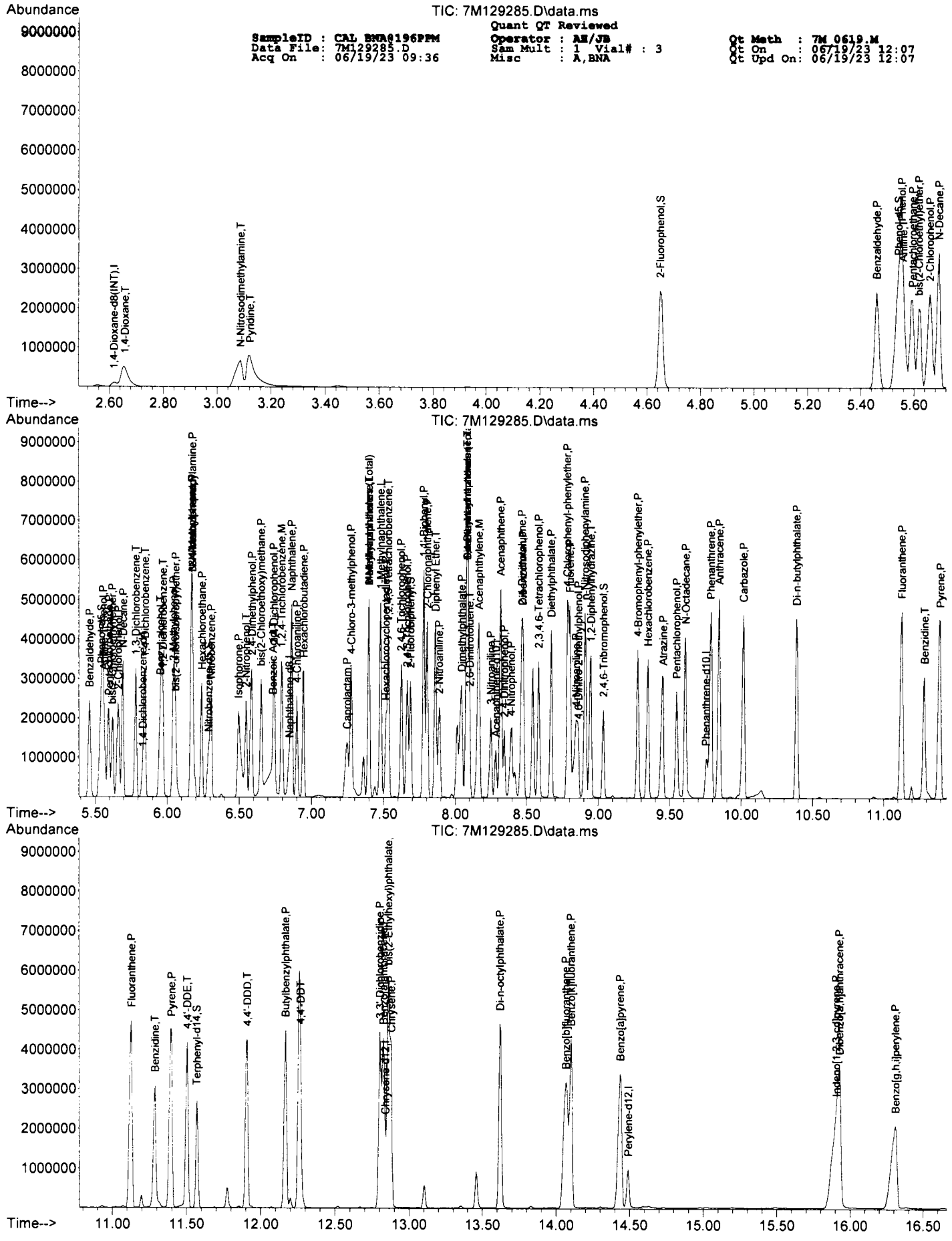
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@196PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129285.D Sam Mult : 1 Vial# : 3 Qt On : 06/19/23 12:07
Acq On : 06/19/23 09:36 Misc : A,BNA Qt Upd On: 06/19/23 12:07

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.251	138	428802	192.7075	ng	76
67)	2,4-Dinitrophenol	8.345	184	271303	192.2785	ng	40
68)	Dibenzofuran	8.475	168	1978108	164.7586	ng	88
69)	2,4-Dinitrotoluene	8.469	165	571629	190.8432	ng	63
70)	4-Nitrophenol	8.392	65	387450	199.7860	ng	86
71)	2,3,4,6-Tetrachlorophenol	8.586	232	445654	165.6913	ng	86
72)	Fluorene	8.804	166	1662799	168.7151	ng	99
73)	4-Chlorophenyl-phenyle...	8.786	204	826191	159.9472	ng	83
74)	Diethylphthalate	8.674	149	1702825	170.3464	ng	95
75)	4-Nitroaniline	8.845	138	505538	206.1654	ng	78
76)	Atrazine	9.456	200	551356	185.0816	ng	96
78)	4,6-Dinitro-2-methylph...	8.862	198	346679	229.3872	ng	70
79)	n-Nitrosodiphenylamine	8.909	169	1538213	189.1603	ng	98
81)	1,2-Diphenylhydrazine	8.951	77	1798757	176.9731	ng	74
82)	4-Bromophenyl-phenylether	9.280	248	525650	184.2861	ng	83
83)	Hexachlorobenzene	9.350	284	554502	189.7986	ng	61
84)	N-Octadecane	9.614	57	800358	215.1344	ng	70
85)	Pentachlorophenol	9.550	266	355257	190.1054	ng	97
86)	Phenanthrene	9.791	178	2458476	186.8134	ng	99
87)	Anthracene	9.849	178	2462284	183.2093	ng	98
88)	Carbazole	10.020	167	2443178	197.6277	ng	97
89)	Di-n-butylphthalate	10.390	149	2997778	186.9686	ng	97
90)	Fluoranthene	11.130	202	2758431	176.5248	ng	90
92)	Pyrene	11.401	202	2698244	204.9691	ng	85
93)	Benzidine	11.289	184	1433364	215.2503	ng	85
95)	4,4'-DDE	11.506	246	601707	201.1034	ng	92
96)	4,4'-DDD	11.912	235	1054114	191.8439	ng	95
97)	Butylbenzylphthalate	12.170	149	1342655	227.9165	ng	71
98)	4,4'-DDT	12.270	235	741662	178.2708	ng	99
99)	3,3'-Dichlorobenzidine	12.805	252	855970	202.7573	ng	96
100)	Benzo[a]anthracene	12.828	228	2429003	197.4626	ng	98
101)	Chrysene	12.881	228	2062102	183.2145	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.864	149	1567069	208.4182	ng	88
104)	Di-n-octylphthalate	13.622	149	3040471	198.0289	ng	98
105)	Benzo[b]fluoranthene	14.068	252	2735221	203.4738	ng	94
106)	Benzo[k]fluoranthene	14.103	252	2021323m	167.5373	ng	
107)	Benzo[a]pyrene	14.438	252	2170418	192.0970	ng	93
108)	Indeno[1,2,3-cd]pyrene	15.907	276	2580772	192.7852	ng	88
109)	Dibenzo[a,h]anthracene	15.931	278	2112472	190.4347	ng	88
110)	Benzo[g,h,i]perylene	16.313	276	2139830	201.2893	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 7M129285.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@196PPM
Data File: 7M129285.D
Acq On : 06/19/23 09:36
Operator : AH/JB
Sam Mult : 1 Vial# : 3
Misc : A,BNA
Qt Meth : 7M_0619.M
Qt On : 06/19/23 12:07
Qt Upd On: 06/19/23 12:07
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->
Abundance
TIC: 7M129285.D\data.ms
Benzaldehyde,P
Time-->
Abundance
TIC: 7M129285.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@0.5PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129291.D Sam Mult : 1 Vial# : 9 Qt On : 06/19/23 12:18
Acq On : 06/19/23 11:57 Misc : A,BNA Qt Upd On: 06/19/23 12:07

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.617	96	74966	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.825	152	130341	40.00	ng	0.00
31) Naphthalene-d8	6.835	136	527908	40.00	ng	0.00
50) Acenaphthene-d10	8.269	164	313798	40.00	ng	0.00
77) Phenanthrene-d10	9.744	188	526689	40.00	ng	0.00
91) Chrysene-d12	12.817	240	436055	40.00	ng	-0.01
103) Perylene-d12	14.473	264	420092	40.00	ng	-0.01
System Monitoring Compounds						
11) 2-Fluorophenol	0.000	112	0d	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
16) Phenol-d5	0.000	99	0d	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
32) Nitrobenzene-d5	0.000	128	0d	0.00	ng	
Spiked Amount 50.000			Recovery =	0.00%		
55) 2-Fluorobiphenyl	0.000	172	0d	0.00	ng	
Spiked Amount 50.000			Recovery =	0.00%		
80) 2,4,6-Tribromophenol	0.000	330	0d	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
94) Terphenyl-d14	0.000	244	0d	0.00	ng	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
8) 1,4-Dioxane	2.669	88	980	0.5145	ng	97
9) Pyridine	0.000		0	N.D. d		
10) N-Nitrosodimethylamine	0.000		0	N.D. d		
12) Benzaldehyde	0.000		0	N.D. d		
13) Aniline	5.543	93	3603	0.5032	ng	90
14) Pentachloroethane	0.000		0	N.D. d		
15) bis(2-Chloroethyl)ether	5.601	93	2549	0.5220	ng	90
17) Phenol	0.000		0	N.D. d		
18) 2-Chlorophenol	0.000		0	N.D. d		
19) N-Decane	0.000		0	N.D. d		
20) 1,3-Dichlorobenzene	0.000		0	N.D. d		
22) 1,4-Dichlorobenzene	0.000		0	N.D. d		
23) 1,2-Dichlorobenzene	0.000		0	N.D. d		
24) Benzyl alcohol	0.000		0	N.D. d		
25) bis(2-chloroisopropyl)...	0.000		0	N.D. d		
26) 2-Methylphenol	6.030	108	2331	0.5288	ng	89
27) Acetophenone	0.000		0	N.D. d		
28) Hexachloroethane	0.000		0	N.D. d		
29) N-Nitroso-di-n-propyla...	6.148	70	1887	0.5296	ng	83
30) 3&4-Methylphenol	6.154	108	2521	0.5504	ng	94
33) Nitrobenzene	0.000		0	N.D. d		
34) Isophorone	0.000		0	N.D. d		
35) 2-Nitrophenol	0.000		0	N.D. d		
36) 2,4-Dimethylphenol	6.565	107	2683	0.4859	ng	90
37) Benzoic Acid	0.000		0	N.D. d		
38) bis(2-Chloroethoxy)met...	0.000		0	N.D. d		
39) 2,4-Dichlorophenol	6.724	162	1936	0.4450	ng	92
40) 1,2,4-Trichlorobenzene	0.000		0	N.D. d		
41) Naphthalene	6.847	128	8410	0.5863	ng	97
42) 4-Chloroaniline	6.888	127	2799m	0.5134	ng	
43) Hexachlorobutadiene	0.000		0	N.D. d		
44) Caprolactam	0.000		0	N.D. d		
45) 4-Chloro-3-methylphenol	0.000		0	N.D. d		
46) 2-Methylnaphthalene	0.000		0	N.D. d		
47) 1-Methylnaphthalene	0.000		0	N.D. d		
48) Methylnaphthalenes (To...	0.000		0	N.D. d		
49) 1,1'-Biphenyl	0.000		0	N.D. d		
51) 1,2,4,5-Tetrachloroben...	0.000		0	N.D. d		
52) Hexachlorocyclopentadiene	0.000		0	N.D.		
53) 2,4,6-Trichlorophenol	0.000		0	N.D. d		
54) 2,4,5-Trichlorophenol	0.000		0	N.D. d		
56) 2-Chloronaphthalene	0.000		0	N.D. d		
57) 1,4-Dimethylnaphthalene	0.000		0	N.D. d		
58) Dimethylnaphthalenes (...	0.000		0	N.D. d		
59) Diphenyl Ether	0.000		0	N.D. d		
60) 2-Nitroaniline	0.000		0	N.D. d		
61) Coumarin	0.000		0	N.D. d		
62) Acenaphthylene	0.000		0	N.D. d		
63) Dimethylphthalate	0.000		0	N.D. d		
64) 2,6-Dinitrotoluene	0.000		0	N.D. d		
65) Acenaphthene	0.000		0	N.D. d		

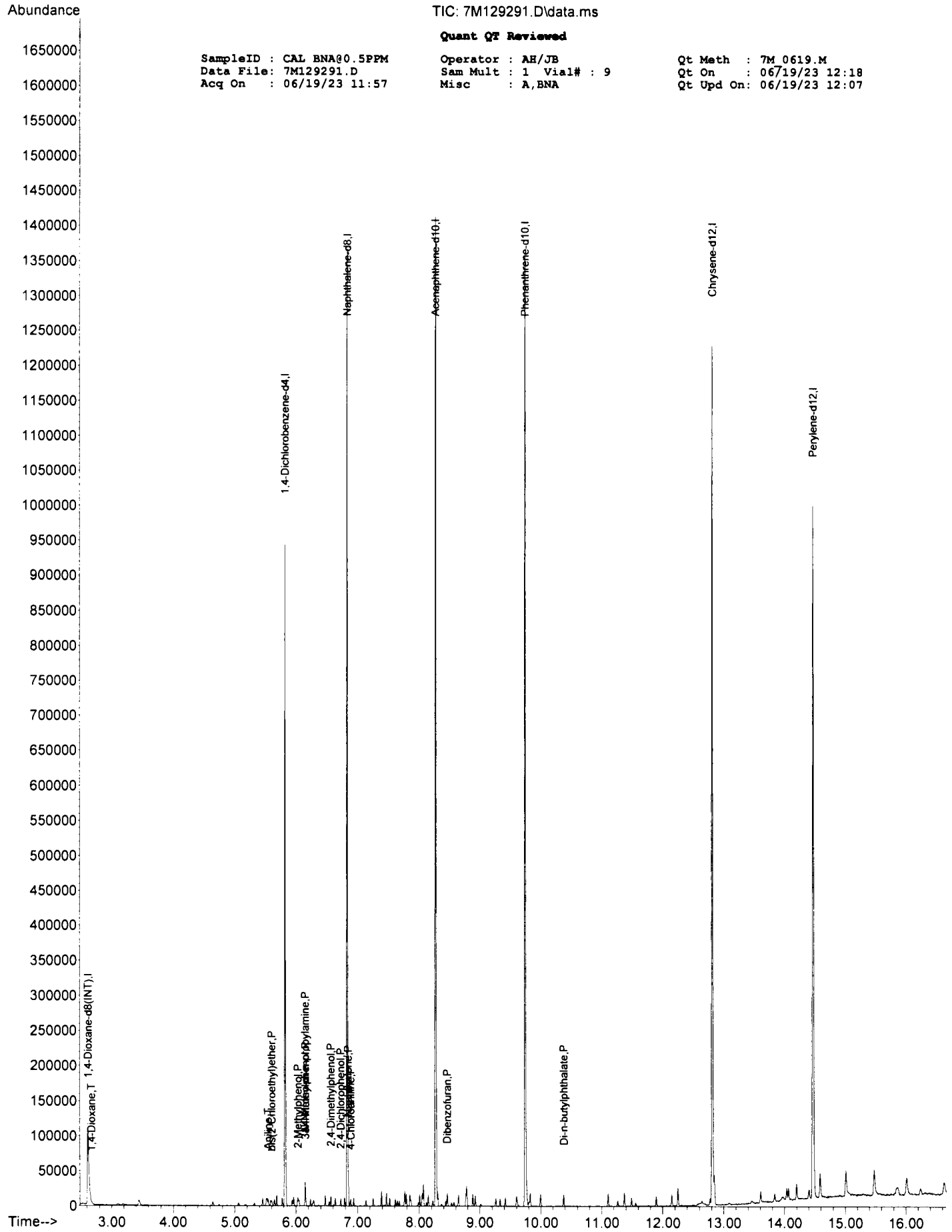
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@0.5PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129291.D Sam Mult : 1 Vial# : 9 Qt On : 06/19/23 12:18
Acq On : 06/19/23 11:57 Misc : A,BNA Qt Upd On: 06/19/23 12:07

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	0.000		0	N.D. d		
67)	2,4-Dinitrophenol	0.000		0	N.D.		
68)	Dibenzofuran	8.457	168	7249	0.5462	ng	83
69)	2,4-Dinitrotoluene	0.000		0	N.D. d		
70)	4-Nitrophenol	0.000		0	N.D. d		
71)	2,3,4,6-Tetrachlorophenol	0.000		0	N.D. d		
72)	Fluorene	0.000		0	N.D. d		
73)	4-Chlorophenyl-phenyle...	0.000		0	N.D. d		
74)	Diethylphthalate	0.000		0	N.D. d		
75)	4-Nitroaniline	0.000		0	N.D. d		
76)	Atrazine	0.000		0	N.D. d		
78)	4,6-Dinitro-2-methylph...	0.000		0	N.D.		
79)	n-Nitrosodiphenylamine	0.000		0	N.D. d		
81)	1,2-Diphenylhydrazine	0.000		0	N.D. d		
82)	4-Bromophenyl-phenylether	0.000		0	N.D. d		
83)	Hexachlorobenzene	0.000		0	N.D. d		
84)	N-Octadecane	0.000		0	N.D. d		
85)	Pentachlorophenol	0.000		0	N.D. d		
86)	Phenanthrene	0.000		0	N.D. d		
87)	Anthracene	0.000		0	N.D. d		
88)	Carbazole	0.000		0	N.D. d		
89)	Di-n-butylphthalate	10.378	149	9376	0.5541	ng	94
90)	Fluoranthene	0.000		0	N.D. d		
92)	Pyrene	0.000		0	N.D. d		
93)	Benzidine	0.000		0	N.D. d		
95)	4,4'-DDE	0.000		0	N.D. d		
96)	4,4'-DDD	0.000		0	N.D. d		
97)	Butylbenzylphthalate	0.000		0	N.D. d		
98)	4,4'-DDT	0.000		0	N.D. d		
99)	3,3'-Dichlorobenzidine	0.000		0	N.D. d		
100)	Benzo[a]anthracene	0.000		0	N.D. d		
101)	Chrysene	0.000		0	N.D. d		
102)	bis(2-Ethylhexyl)phtha...	0.000		0	N.D. d		
104)	Di-n-octylphthalate	0.000		0	N.D. d		
105)	Benzo[b]fluoranthene	0.000		0	N.D. d		
106)	Benzo[k]fluoranthene	0.000		0	N.D. d		
107)	Benzo[a]pyrene	0.000		0	N.D. d		
108)	Indeno[1,2,3-cd]pyrene	0.000		0	N.D. d		
109)	Dibenzo[a,h]anthracene	0.000		0	N.D. d		
110)	Benzo[g,h,i]perylene	0.000		0	N.D. d		

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 7M129291.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@0.5PPM
Data File: 7M129291.D
Acq On : 06/19/23 11:57
Operator : AH/JB
Sam Mult : 1 Vial# : 9
Misc : A,BNA
Qt Meth : 7M_0619.M
Qt On : 06/19/23 12:18
Qt Upd On: 06/19/23 12:07
1,4-Dioxane,T
1,4-Dioxane-d8(INT),I
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Chrysene-d12,I
Perylene-d12,I
Dibenzofuran,P
Di-n-butylphthalate,P
Time-->

3061429 0398

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_10

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	10M97598.D	CAL BNA@50PPM	06/19/23 12:41	2	10M97590.D	CAL BNA@2PPM	06/19/23 09:27
3	10M97591.D	CAL BNA@10PPM	06/19/23 09:53	4	10M97596.D	CAL BNA@20PPM	06/19/23 11:45
5	10M97595.D	CAL BNA@80PPM	06/19/23 11:23	6	10M97594.D	CAL BNA@120PPM	06/19/23 11:00
7	10M97593.D	CAL BNA@160PPM	06/19/23 10:38	8	10M97592.D	CAL BNA@196PPM	06/19/23 10:15
9	10M97597.D	CAL BNA@0.5PPM	06/19/23 12:11				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1.4-Dioxane	1	0	Avg	1.0192	1.3418	1.1201	1.1225	1.0169	1.0631	1.0506	1.1147	1.0483	1.10	2.72	0.998	0.999	9.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	1.8989	1.5055	1.7176	1.9973	1.9601	2.0828	2.0597	2.1697	-----	1.92	3.19	0.998	0.999	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.4904	1.4575	1.4097	1.5736	1.5213	1.6000	1.6028	1.6831	-----	1.54	3.13	0.998	1.00	5.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.1811	2.0413	2.0199	2.2739	2.2676	2.3882	2.3938	2.5153	-----	2.26	4.68	0.998	1.00	7.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	1.8649	1.8647	1.7476	1.9699	1.8668	1.9378	1.8733	1.8821	-----	1.88	5.49	1.00	1.00	3.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	3.3942	3.0656	3.1827	3.5539	3.4235	3.6013	3.5169	3.6175	2.8976	3.36	5.58	0.999	1.00	7.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.8648	0.9513	0.8501	0.9178	0.8772	0.9150	0.8970	0.9424	-----	0.902	5.63	0.999	0.999	4.0	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	2.4317	2.4885	2.3595	2.5917	2.4244	2.5397	2.4445	2.5668	2.3136	2.46	5.64	0.999	0.999	3.8	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	2.6840	2.5175	2.5077	2.8408	2.7552	2.9004	2.8728	3.0258	-----	2.76	5.55	0.998	1.00	6.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.1879	2.9672	2.9274	3.3598	3.2365	3.3934	3.3317	3.4934	-----	3.24	5.56	0.999	0.999	6.2	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.3867	2.2501	2.2552	2.5174	2.4179	2.5376	2.5250	2.6413	-----	2.44	5.69	0.998	1.00	5.7	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	2.7712	2.8943	2.7801	2.9499	2.7392	2.8319	2.7519	2.8283	-----	2.82	5.73	1.00	1.00	2.6	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	2.5371	2.6339	2.5417	2.7260	2.5953	2.7169	2.6747	2.7857	-----	2.65	5.81	0.999	1.00	3.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.5215	1.6347	1.5024	1.5610	1.4988	1.5584	1.5936	1.6513	-----	1.57	5.88	0.998	1.00	3.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.4308	1.4818	1.3992	1.5012	1.4236	1.4755	1.5028	1.5704	-----	1.47	6.00	0.998	1.00	3.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.9228	0.7919	0.8250	0.9368	0.9434	0.9842	1.0093	1.0692	-----	0.935	5.97	0.997	1.00	9.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.9364	2.0955	1.9358	2.0429	1.9124	1.9699	1.9748	2.0679	-----	1.99	6.09	0.999	1.00	3.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.2727	1.2603	1.1867	1.3347	1.2810	1.3440	1.3684	1.4410	1.0854	1.29	6.06	0.998	1.00	8.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.9493	2.0048	1.8900	2.0713	1.8684	1.8626	1.7969	1.7547	-----	1.90	6.19	0.999	1.00	5.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5774	0.5914	0.5808	0.5998	0.5812	0.5991	0.6117	0.6410	-----	0.598	6.27	0.998	1.00	3.5	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	0.9957	0.9711	0.9406	1.0401	0.9565	0.9326	0.9076	0.8960	0.8520	0.944	6.19	0.999	1.00	5.9	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.3564	1.2949	1.2796	1.3967	1.3314	1.3150	1.2650	1.2239	1.0410	1.28	6.18	0.998	1.00	8.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1608	0.1389	0.1377	0.1608	0.1639	0.1705	0.1735	0.1828	-----	0.161	6.31	0.998	1.00	9.8		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3611	0.3668	0.3469	0.3712	0.3555	0.3654	0.3677	0.3829	-----	0.365	6.32	0.999	1.00	2.9	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6624	0.6290	0.6262	0.6868	0.6656	0.6893	0.6923	0.7165	-----	0.671	6.51	0.999	1.00	4.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.1864	0.1534	0.1590	0.1868	0.1936	0.1993	0.2046	0.2106	-----	0.187	6.57	0.999	1.00	11	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Avg	0.3416	0.3167	0.3138	0.3447	0.3383	0.3459	0.3503	0.3615	0.2788	0.332	6.59	0.999	1.00	7.6	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.1896	-----	0.0527	0.1429	0.2387	0.2652	0.2824	0.2909	-----	0.209	6.66	0.997	0.999	42		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.4117	0.3985	0.3863	0.4234	0.4135	0.4212	0.4234	0.4351	-----	0.414	6.67	0.999	1.00	3.7	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Avg	0.2817	0.2439	0.2554	0.2874	0.2879	0.2968	0.3034	0.3112	0.1785	0.272	6.75	0.999	1.00	15	0.20 a	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.2943	0.3056	0.2807	0.3010	0.2960	0.3054	0.3070	0.3178	-----	0.301	6.82	0.999	1.00	3.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	1.0636	1.0797	1.0200	1.0929	1.0444	1.0676	1.0688	1.0761	1.1274	1.07	6.88	1.00	1.00	2.8	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.4032	0.3755	0.3769	0.4188	0.3937	0.3833	0.3534	0.3234	0.2899	0.369	6.92	0.989	0.999	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1520	0.1547	0.1439	0.1559	0.1510	0.1557	0.1590	0.1641	-----	0.155	6.97	0.999	1.00	3.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.1182	0.0875	0.0963	0.1168	0.1207	0.1268	0.1284	0.1451	-----	0.118	7.19	0.991	0.998	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2866	0.2514	0.2687	0.2920	0.2901	0.3030	0.3058	0.3173	-----	0.289	7.27	0.999	1.00	7.3	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.7001	0.6887	0.6590	0.7085	0.6880	0.6970	0.6906	0.6981	-----	0.691	7.41	1.00	1.00	2.1	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6519	0.6635	0.6208	0.6763	0.6554	0.6611	0.6564	0.6692	-----	0.657	7.49	1.00	1.00	2.5	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Avg	0.6733	0.6755	0.6362	0.6875	0.6673	0.6755	0.6710	0.6786	-----	0.671	7.41	1.00	1.00	2.3		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.8496	0.8530	0.8218	0.8841	0.8481	0.8556	0.8459	0.8550	-----	0.852	7.79	1.00	1.00	2.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.5418	0.5669	0.5160	0.5573	0.5406	0.5569	0.5573	0.5797	-----	0.552	7.55	0.999	1.00	3.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 7.348
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_10

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	10M97598.D	CAL BNA@50PPM	06/19/23 12:41	2	10M97590.D	CAL BNA@2PPM	06/19/23 09:27
3	10M97591.D	CAL BNA@10PPM	06/19/23 09:53	4	10M97596.D	CAL BNA@20PPM	06/19/23 11:45
5	10M97595.D	CAL BNA@80PPM	06/19/23 11:23	6	10M97594.D	CAL BNA@120PPM	06/19/23 11:00
7	10M97593.D	CAL BNA@160PPM	06/19/23 10:38	8	10M97592.D	CAL BNA@196PPM	06/19/23 10:15
9	10M97597.D	CAL BNA@0.5PPM	06/19/23 12:11				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Avg	0.2390	0.1569	0.1889	0.2193	0.2483	0.2630	0.2695	0.2874	-----	0.234	7.54	0.996	1.00	19	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.3416	0.2902	0.3101	0.3507	0.3542	0.3722	0.3798	0.4033	-----	0.350	7.63	0.997	1.00	10	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.3737	0.3296	0.3273	0.3836	0.3881	0.4008	0.4118	0.4368	-----	0.382	7.66	0.997	1.00	9.9	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.3159	1.3188	1.2374	1.3979	1.3276	1.3911	1.4124	1.4924	-----	1.36	7.70	0.998	1.00	5.7		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.1413	1.1204	1.0879	1.2014	1.1436	1.1735	1.1849	1.2385	-----	1.16	7.81	0.998	1.00	4.1	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	0.9932	0.9585	0.9380	1.0390	0.9764	0.9644	0.9208	0.9061	-----	0.962	8.09	0.998	1.00	4.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	0.9932	0.9585	0.9380	1.0390	0.9764	0.9644	0.9208	0.9061	-----	0.962	8.09	0.998	1.00	4.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8404	0.8377	0.7990	0.8836	0.8554	0.8843	0.8813	0.9213	-----	0.863	7.87	0.999	1.00	4.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.4124	0.3613	0.3696	0.4324	0.4172	0.4240	0.4239	0.4430	-----	0.411	7.89	0.999	1.00	7.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4865	0.4643	0.4514	0.5039	0.4879	0.5011	0.4936	0.4892	-----	0.485	8.07	1.00	1.00	3.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.6494	1.5918	1.5512	1.6997	1.6721	1.7206	1.7164	1.7829	-----	1.67	8.17	0.999	1.00	4.5	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.2292	1.2219	1.1765	1.2986	1.2553	1.2953	1.3086	1.3751	-----	1.27	8.03	0.998	1.00	4.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.2940	0.2443	0.2683	0.3040	0.2884	0.2891	0.2777	0.2747	-----	0.280	8.09	0.999	1.00	6.6	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.1357	1.1509	1.0843	1.1796	1.1331	1.1685	1.1621	1.1972	-----	1.15	8.32	0.999	1.00	3.0	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3398	0.2701	0.3022	0.3471	0.3357	0.3446	0.3354	0.3450	-----	0.328	8.24	1.00	1.00	8.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1393	-----	0.0730	0.1161	0.1618	0.1772	0.1859	0.1985	-----	0.150	8.33	0.995	1.00	29	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.6138	1.6402	1.5316	1.6750	1.6076	1.6486	1.6483	1.7198	1.7811	1.65	8.48	0.999	1.00	4.3	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Avg	0.3861	0.2963	0.3250	0.3897	0.3899	0.4086	0.4203	0.4465	-----	0.383	8.45	0.997	1.00	13	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Avg	0.2359	0.1569	0.1686	0.2483	0.2582	0.2693	0.2764	0.2757	-----	0.236	8.36	0.999	0.999	20	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.2920	0.2274	0.2531	0.2907	0.3041	0.3160	0.3275	0.3429	-----	0.294	8.58	0.997	1.00	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.3426	1.2975	1.2638	1.3946	1.3427	1.3630	1.3473	1.3876	-----	1.34	8.80	1.00	1.00	3.3	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.5942	0.5995	0.5595	0.6150	0.6043	0.6271	0.6396	0.6614	-----	0.613	8.79	0.999	1.00	5.1	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.2098	1.2827	1.1718	1.2648	1.2232	1.2610	1.2769	1.3313	-----	1.25	8.66	0.998	1.00	3.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.3680	0.2561	0.3071	0.3673	0.3752	0.3839	0.3894	0.4088	-----	0.357	8.80	0.998	1.00	14	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.3662	0.3211	0.3187	0.3655	0.3758	0.3892	0.4002	0.4189	-----	0.369	9.42	0.998	1.00	9.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Avg	0.1196	-----	0.0854	0.1057	0.1285	0.1370	0.1424	0.1568	-----	0.125	8.83	0.993	0.999	19	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6743	0.6677	0.6409	0.7009	0.6811	0.6940	0.6953	0.7434	-----	0.687	8.89	0.998	0.999	4.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Avg	0.0873	0.0668	0.0746	0.0839	0.0910	0.0988	0.1025	0.1131	-----	0.0898	9.03	0.992	0.999	17		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.8027	0.8597	0.7740	0.8402	0.8734	0.8125	0.8107	0.9402	-----	0.839	8.94	0.995	0.997	6.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.1969	0.1819	0.1832	0.2004	0.2021	0.2109	0.2167	0.2323	-----	0.203	9.27	0.996	1.00	8.3	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2034	0.1981	0.1945	0.2070	0.2050	0.2153	0.2220	0.2381	-----	0.210	9.34	0.996	0.999	6.8	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.4337	0.3918	0.4032	0.4467	0.4344	0.4425	0.4400	0.4551	-----	0.431	9.60	0.999	1.00	5.1	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Qua	0.1117	-----	0.0706	0.0969	0.1242	0.1368	0.1452	0.1598	-----	0.121	9.54	0.991	1.00	25	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.1089	1.1391	1.0844	1.1454	1.1045	1.1281	1.1277	1.1776	-----	1.13	9.78	0.999	1.00	2.5	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.1354	1.0711	1.0826	1.1660	1.1351	1.1555	1.1559	1.2122	-----	1.14	9.83	0.999	1.00	4.0	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	1.0703	0.9990	1.0210	1.1157	1.0833	1.1040	1.1189	1.1787	-----	1.09	10.00	0.998	1.00	5.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Avg	1.2215	1.0335	1.0905	1.2375	1.2641	1.2915	1.2896	1.3611	0.8652	1.18	10.37	0.998	1.00	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.1455	1.0676	1.0570	1.1516	1.1621	1.1786	1.1690	1.2313	-----	1.15	11.10	0.999	0.999	5.0	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.3843	1.3506	1.3068	1.4254	1.3838	1.3998	1.3624	1.4427	-----	1.38	11.37	0.999	0.999	3.1	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Avg	0.7730	0.5590	0.6800	0.7773	0.7599	0.7419	0.6843	0.7064	-----	0.710	11.25	0.998	0.999	10		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.7473	0.7062	0.7011	0.7697	0.7607	0.7956	0.7911	0.8900	-----	0.770	11.55	0.995	0.999	7.7		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags	*Note:* Avg Rsd: 7.348
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_10

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	10M97598.D	CAL BNA@50PPM	06/19/23 12:41	2	10M97590.D	CAL BNA@2PPM	06/19/23 09:27
3	10M97591.D	CAL BNA@10PPM	06/19/23 09:53	4	10M97596.D	CAL BNA@20PPM	06/19/23 11:45
5	10M97595.D	CAL BNA@80PPM	06/19/23 11:23	6	10M97594.D	CAL BNA@120PPM	06/19/23 11:00
7	10M97593.D	CAL BNA@160PPM	06/19/23 10:38	8	10M97592.D	CAL BNA@196PPM	06/19/23 10:15
9	10M97597.D	CAL BNA@0.5PPM	06/19/23 12:11				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2702	0.2606	0.2467	0.2748	0.2740	0.2867	0.2855	0.3127	-----	0.276	11.48	0.995	0.999	7.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4898	0.4450	0.4397	0.5003	0.5003	0.5196	0.5124	0.5480	-----	0.494	11.88	0.998	1.00	7.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Avg	0.5953	0.4769	0.5084	0.5913	0.6261	0.6439	0.6371	0.6867	-----	0.596	12.13	0.997	0.999	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.4114	0.3555	0.3730	0.4190	0.4162	0.4261	0.4193	0.4477	-----	0.409	12.24	0.998	0.999	7.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Avg	0.4065	0.3535	0.3481	0.4156	0.4190	0.4316	0.4154	0.4181	-----	0.401	12.75	0.999	1.00	7.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.2452	1.2172	1.1552	1.2461	1.2133	1.2507	1.2702	1.3252	-----	1.24	12.78	0.998	1.00	3.9	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.1923	1.2059	1.1319	1.2262	1.1623	1.1793	1.1676	1.2339	-----	1.19	12.83	0.998	0.999	2.9	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Avg	0.8535	0.6981	0.7305	0.8533	0.8671	0.8854	0.8697	0.9252	-----	0.835	12.82	0.998	0.999	9.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Avg	1.4206	1.1630	1.1934	1.3725	1.5093	1.5667	1.5365	1.6445	-----	1.43	13.56	0.998	0.999	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.2039	1.1048	1.0659	1.1856	1.1947	1.2695	1.2142	1.3740	-----	1.20	13.99	0.996	0.998	7.9	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.2231	1.1517	1.1157	1.2548	1.2342	1.2200	1.2469	1.2978	-----	1.22	14.02	0.999	1.00	4.8	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.0745	0.9768	0.9247	1.0546	1.0780	1.1169	1.1127	1.2182	-----	1.07	14.35	0.996	0.999	8.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.3168	1.2004	1.1628	1.2840	1.3368	1.3806	1.3684	1.4995	-----	1.32	15.74	0.997	0.999	8.0	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.0991	0.9867	0.9509	1.0556	1.1221	1.1623	1.1549	1.2597	-----	1.10	15.76	0.996	0.999	9.1	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	1.0780	1.0036	0.9511	1.0681	1.0850	1.1259	1.1227	1.2397	-----	1.08	16.12	0.995	0.998	7.9	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 7.348
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 10M_0619.M
Data File: 10M97598.D Sam Mult : 1 Vial# : 10 Qt On : 06/19/23 12:59
Acq On : 06/19/23 12:41 Misc : A,BNA Qt Upd On: 06/19/23 12:46

Data Path : G:\GcMsData\2023\GCMS_10\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_10\METHODQT
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.690	96	71702	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.862	152	122863	40.00	ng	0.00
31) Naphthalene-d8	6.862	136	474932	40.00	ng	0.00
50) Acenaphthene-d10	8.290	164	261356	40.00	ng	0.00
77) Phenanthrene-d10	9.750	188	432960	40.00	ng	0.00
91) Chrysene-d12	12.794	240	374358	40.00	ng	0.00
103) Perylene-d12	14.409	264	354240	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.680	112	195490	50.18	ng	0.00
Spiked Amount 100.000			Recovery = 50.18%			
16) Phenol-d5	5.546	99	240568	49.35	ng	0.00
Spiked Amount 100.000			Recovery = 49.35%			
32) Nitrobenzene-d5	6.311	128	47749	24.07	ng	0.00
Spiked Amount 50.000			Recovery = 48.14%			
55) 2-Fluorobiphenyl	7.702	172	214964	24.03	ng	0.00
Spiked Amount 50.000			Recovery = 48.06%			
80) 2,4,6-Tribromophenol	9.028	330	47258	45.27	ng	0.00
Spiked Amount 100.000			Recovery = 45.27%			
94) Terphenyl-d14	11.547	244	174859	23.19	ng	0.00
Spiked Amount 50.000			Recovery = 46.38%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.722	88	91354m	50.5204	ng	
9) Pyridine	3.187	79	170195	45.7667	ng	75
10) N-Nitrosodimethylamine	3.129	74	133582	47.0647	ng	81
12) Benzaldehyde	5.493	77	167147	48.8004	ng	77
13) Aniline	5.584	93	304216	48.7367	ng	35
14) Pentachloroethane	5.626	117	77512	55.3493	ng	85
15) bis(2-Chloroethyl)ether	5.643	93	217954	49.2687	ng	80
17) Phenol	5.557	94	285727	48.9352	ng	83
18) 2-Chlorophenol	5.685	128	213917	52.7988	ng	80
19) N-Decane	5.728	57	248384	57.8805	ng	96
20) 1,3-Dichlorobenzene	5.814	146	227401	51.9261	ng	99
22) 1,4-Dichlorobenzene	5.878	146	233679	47.9374	ng	98
23) 1,2-Dichlorobenzene	6.001	146	219742	47.6112	ng	98
24) Benzyl alcohol	5.974	108	141725	46.9231	ng	70
25) bis(2-chloroisopropyl)...	6.086	45	297398	53.5102	ng	100
26) 2-Methylphenol	6.060	108	195463	46.0265	ng	95
27) Acetophenone	6.188	105	299372	54.8172	ng	69
28) Hexachloroethane	6.274	117	88683	47.7303	ng	82
29) N-Nitroso-di-n-propyla...	6.188	70	152923	49.6850	ng	73
30) 3&4-Methylphenol	6.183	108	208320	49.8009	ng	100
33) Nitrobenzene	6.322	77	214416	45.3279	ng	80
34) Isophorone	6.509	82	393298	45.0392	ng	83
35) 2-Nitrophenol	6.573	139	110678	49.2068	ng	82
36) 2,4-Dimethylphenol	6.595	107	202817	47.8001	ng	89
37) Benzoic Acid	6.664	105	112597	44.3148	ng	86
38) bis(2-Chloroethoxy)met...	6.669	93	244450	45.2486	ng	96
39) 2,4-Dichlorophenol	6.750	162	167287	49.3778	ng	89
40) 1,2,4-Trichlorobenzene	6.819	180	174768	45.6592	ng	97
41) Naphthalene	6.883	128	631435	46.9120	ng	99
42) 4-Chloroaniline	6.915	127	239402m	50.7588	ng	
43) Hexachlorobutadiene	6.969	225	90259	44.5777	ng	97
44) Caprolactam	7.188	113	70199	53.0757	ng	71
45) 4-Chloro-3-methylphenol	7.274	107	170145	46.8972	ng	80
46) 2-Methylnaphthalene	7.413	142	415629	50.2310	ng	98
47) 1-Methylnaphthalene	7.493	142	387035	49.4368	ng	94
48) Methylnaphthalenes (To...	7.413	142	799500m	99.1631	ng	
49) 1,1'-Biphenyl	7.787	154	504403	49.5895	ng	95
51) 1,2,4,5-Tetrachloroben...	7.547	216	177032	50.0573	ng	98
52) Hexachlorocyclopentadiene	7.536	237	78083	47.3014	ng	98
53) 2,4,6-Trichlorophenol	7.632	196	111623m	48.7987	ng	
54) 2,4,5-Trichlorophenol	7.664	196	122112	49.7102	ng	98
56) 2-Chloronaphthalene	7.809	162	372862	49.1853	ng	93
57) 1,4-Dimethylnaphthalene	8.092	156	324499	53.1720	ng	88
58) Dimethylnaphthalenes (...	8.092	156	324499	53.1720	ng	88
59) Diphenyl Ether	7.873	170	274575	52.9913	ng	75
60) 2-Nitroaniline	7.889	65	134747	51.4749	ng	52
61) Coumarin	8.071	146	158941	53.9629	ng	79
62) Acenaphthylene	8.167	152	538865	49.3545	ng	100
63) Dimethylphthalate	8.028	163	401580	48.2435	ng	94
64) 2,6-Dinitrotoluene	8.087	165	96051	53.8443	ng	67
65) Acenaphthene	8.322	153	371048	48.2767	ng	98

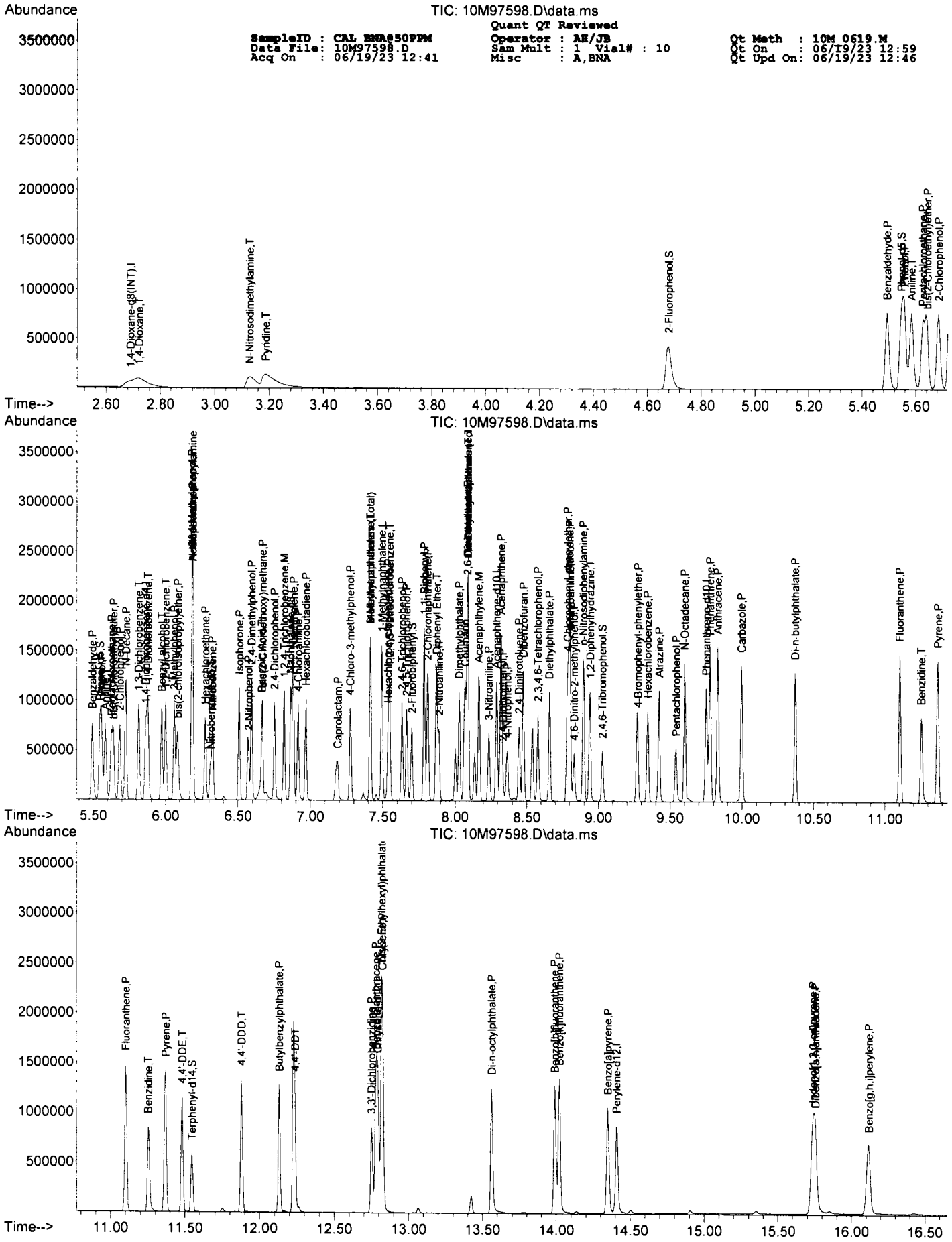
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 10M_0619.M
Data File: 10M97598.D Sam Mult : 1 Vial# : 10 Qt On : 06/19/23 12:59
Acq On : 06/19/23 12:41 Misc : A,BNA **Qt Upd On: 06/19/23 12:46**

Data Path : G:\GcMsData\2023\GCMS_10\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.237	138	111017	52.9556	ng	77
67)	2,4-Dinitrophenol	8.333	184	45521	47.5538	ng	43
68)	Dibenzofuran	8.477	168	527229	46.9732	ng	84
69)	2,4-Dinitrotoluene	8.445	165	126139	49.3340	ng	68
70)	4-Nitrophenol	8.365	65	77066	48.3355	ng	91
71)	2,3,4,6-Tetrachlorophenol	8.579	232	95421	45.9525	ng	87
72)	Fluorene	8.798	166	438644	50.6781	ng	99
73)	4-Chlorophenyl-phenyle...	8.787	204	194150	45.5177	ng	83
74)	Diethylphthalate	8.659	149	395239	50.1682	ng	98
75)	4-Nitroaniline	8.804	138	120238	52.4709	ng	70
76)	Atrazine	9.424	200	119637	51.8089	ng	96
78)	4,6-Dinitro-2-methylph...	8.830	198	64774	49.0011	ng	59
79)	n-Nitrosodiphenylamine	8.894	169	364953	52.1211	ng	98
81)	1,2-Diphenylhydrazine	8.943	77	434431	48.9039	ng	80
82)	4-Bromophenyl-phenylether	9.274	248	106583	46.3766	ng	83
83)	Hexachlorobenzene	9.344	284	110106	43.2634	ng	70
84)	N-Octadecane	9.601	57	234735	59.7444	ng	82
85)	Pentachlorophenol	9.542	266	60498	46.4505	ng	97
86)	Phenanthrene	9.777	178	600156	49.7310	ng	100
87)	Anthracene	9.831	178	614478	50.8447	ng	100
88)	Carbazole	9.996	167	579255	51.8960	ng	97
89)	Di-n-butylphthalate	10.371	149	661096	56.3054	ng	98
90)	Fluoranthene	11.103	202	619986	49.6562	ng	95
92)	Pyrene	11.371	202	647778	51.1187	ng	87
93)	Benzidine	11.253	184	361722	60.7412	ng	89
95)	4,4'-DDE	11.483	246	126440	50.0000	ng	94
96)	4,4'-DDD	11.879	235	229209	50.8342	ng	91
97)	Butylbenzylphthalate	12.130	149	278591	56.8926	ng	77
98)	4,4'-DDT	12.237	235	192546	53.3989	ng	95
99)	3,3'-Dichlorobenzidine	12.751	252	190264	51.3886	ng	97
100)	Benzo[a]anthracene	12.783	228	582727	49.5364	ng	99
101)	Chrysene	12.826	228	557940	49.6537	ng	100
102)	bis(2-Ethylhexyl)phtha...	12.820	149	399434	59.4173	ng	91
104)	Di-n-octylphthalate	13.564	149	629066	63.1224	ng	100
105)	Benzo[b]fluoranthene	13.992	252	533092m	50.2954	ng	
106)	Benzo[k]fluoranthene	14.024	252	541615m	51.9455	ng	
107)	Benzo[a]pyrene	14.350	252	475811	51.2698	ng	93
108)	Indeno[1,2,3-cd]pyrene	15.741	276	583084	50.2483	ng	89
109)	Dibenzo[a,h]anthracene	15.757	278	486682	50.3707	ng	90
110)	Benzo[g,h,i]perylene	16.120	276	477338	48.4947	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M97598.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@50PPM
Data File: 10M97598.D
Acq On : 06/19/23 12:41
Operator : AE/JB
Sam Mult : 1 Vial# : 10
Misc : A,BNA
Qt Meth : 10M_0619.M
Qt On : 06/19/23 12:59
Qt Upd On: 06/19/23 12:46
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Phenol-d5,S
Aniline,T
2-Chlorophenol,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@2PPM Operator : AH/JB Qt Meth : 10M_0619.M
Data File: 10M97590.D Sam Mult : 1 Vial# : 2 Qt On : 06/19/23 09:51
Acq On : 06/19/23 09:27 Misc : A,BNA Qt Upd On: 05/11/23 14:24

Data Path : G:\GcMsData\2023\GCMS_10\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_10\METHODQT
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.685	96	86403	40.00	ng	-0.04
21) 1,4-Dichlorobenzene-d4	5.862	152	150405	40.00	ng	-0.03
31) Naphthalene-d8	6.862	136	591528	40.00	ng	-0.03
50) Acenaphthene-d10	8.290	164	326795	40.00	ng	-0.03
77) Phenanthrene-d10	9.750	188	538185	40.00	ng	-0.03
91) Chrysene-d12	12.788	240	452627	40.00	ng	-0.04
103) Perylene-d12	14.409	264	440842	40.00	ng	-0.04
System Monitoring Compounds						
11) 2-Fluorophenol	4.674	112	8819m	1.88	ng	-0.03
Spiked Amount 100.000			Recovery =	1.88%		
16) Phenol-d5	5.546	99	10876	1.85	ng	-0.02
Spiked Amount 100.000			Recovery =	1.85%		
32) Nitrobenzene-d5	6.306	128	2055	0.83	ng	-0.03
Spiked Amount 50.000			Recovery =	1.66%		
55) 2-Fluorobiphenyl	7.696	172	10775	0.96	ng	-0.03
Spiked Amount 50.000			Recovery =	1.92%		
80) 2,4,6-Tribromophenol	9.028	330	1799	1.39	ng	-0.03
Spiked Amount 100.000			Recovery =	1.39%		
94) Terphenyl-d14	11.542	244	7992	0.88	ng	-0.04
Spiked Amount 50.000			Recovery =	1.76%		
Target Compounds						Qvalue
8) 1,4-Dioxane	2.733	88	5797	2.6604	ng	87
9) Pyridine	3.252	79	6504	1.4514	ng	79
10) N-Nitrosodimethylamine	3.155	74	6297	1.8411	ng	82
12) Benzaldehyde	5.493	77	8056	1.9519	ng	81
13) Aniline	5.584	93	13244	1.7607	ng	75
14) Pentachloroethane	5.627	117	4110	2.4355	ng	94
15) bis(2-Chloroethyl)ether	5.637	93	10751	2.0168	ng	80
17) Phenol	5.557	94	12819	1.8219	ng	88
18) 2-Chlorophenol	5.685	128	9721	1.9911	ng	79
19) N-Decane	5.723	57	12504	2.4180	ng	93
20) 1,3-Dichlorobenzene	5.814	146	11379	2.1563	ng	98
22) 1,4-Dichlorobenzene	5.878	146	12294	2.0602	ng	98
23) 1,2-Dichlorobenzene	6.001	146	11144	1.9724	ng	95
24) Benzyl alcohol	5.974	108	5956	1.6108	ng	74
25) bis(2-chloroisopropyl)...	6.081	45	15759	2.3163	ng	99
26) 2-Methylphenol	6.060	108	9478	1.8231	ng	98
27) Acetophenone	6.188	105	15077	2.2552	ng	65
28) Hexachloroethane	6.274	117	4448	1.9556	ng	83
29) N-Nitroso-di-n-propyla...	6.183	70	7303	1.9383	ng	75
30) 3&4-Methylphenol	6.183	108	9738	1.9017	ng	96
33) Nitrobenzene	6.322	77	10850	1.8416	ng	83
34) Isophorone	6.504	82	18604	1.7105	ng	85
35) 2-Nitrophenol	6.568	139	4537	1.6195	ng	87
36) 2,4-Dimethylphenol	6.595	107	9369	1.7729	ng	89
37) Benzoic Acid	6.862	105	834	0.3035	ng	# 1
38) bis(2-Chloroethoxy)met...	6.664	93	11788	1.7519	ng	95
39) 2,4-Dichlorophenol	6.750	162	7214	1.7096	ng	87
40) 1,2,4-Trichlorobenzene	6.814	180	9039	1.8960	ng	94
41) Naphthalene	6.878	128	31934	1.9049	ng	99
42) 4-Chloroaniline	6.916	127	11108	1.8909	ng	91
43) Hexachlorobutadiene	6.969	225	4577	1.8149	ng	100
44) Caprolactam	7.156	113	2588	1.5710	ng	70
45) 4-Chloro-3-methylphenol	7.269	107	7436	1.6456	ng	79
46) 2-Methylnaphthalene	7.413	142	20372	1.9768	ng	96
47) 1-Methylnaphthalene	7.493	142	19625	2.0126	ng	96
48) Methylnaphthalenes (To...	7.413	142	39958m	3.9792	ng	
49) 1,1'-Biphenyl	7.782	154	25230	1.9915	ng	95
51) 1,2,4,5-Tetrachloroben...	7.541	216	9263	2.0947	ng	93
52) Hexachlorocyclopentadiene	7.536	237	2564	1.2422	ng	97
53) 2,4,6-Trichlorophenol	7.632	196	4743m	1.6583	ng	
54) 2,4,5-Trichlorophenol	7.664	196	5386m	1.7535	ng	
56) 2-Chloronaphthalene	7.809	162	18307	1.9314	ng	93
57) 1,4-Dimethylnaphthalene	8.087	156	15663	2.0526	ng	89
58) Dimethylnaphthalenes (...	8.087	156	15663	2.0526	ng	89
59) Diphenyl Ether	7.868	170	13689	2.1129	ng	82
60) 2-Nitroaniline	7.884	65	5905	1.8041	ng	59
61) Coumarin	8.071	146	7587	2.0601	ng	77
62) Acenaphthylene	8.167	152	26011	1.9053	ng	97
63) Dimethylphthalate	8.023	163	19966	1.9183	ng	93
64) 2,6-Dinitrotoluene	8.082	165	3993	1.7902	ng	82
65) Acenaphthene	8.317	153	18806	1.9569	ng	98

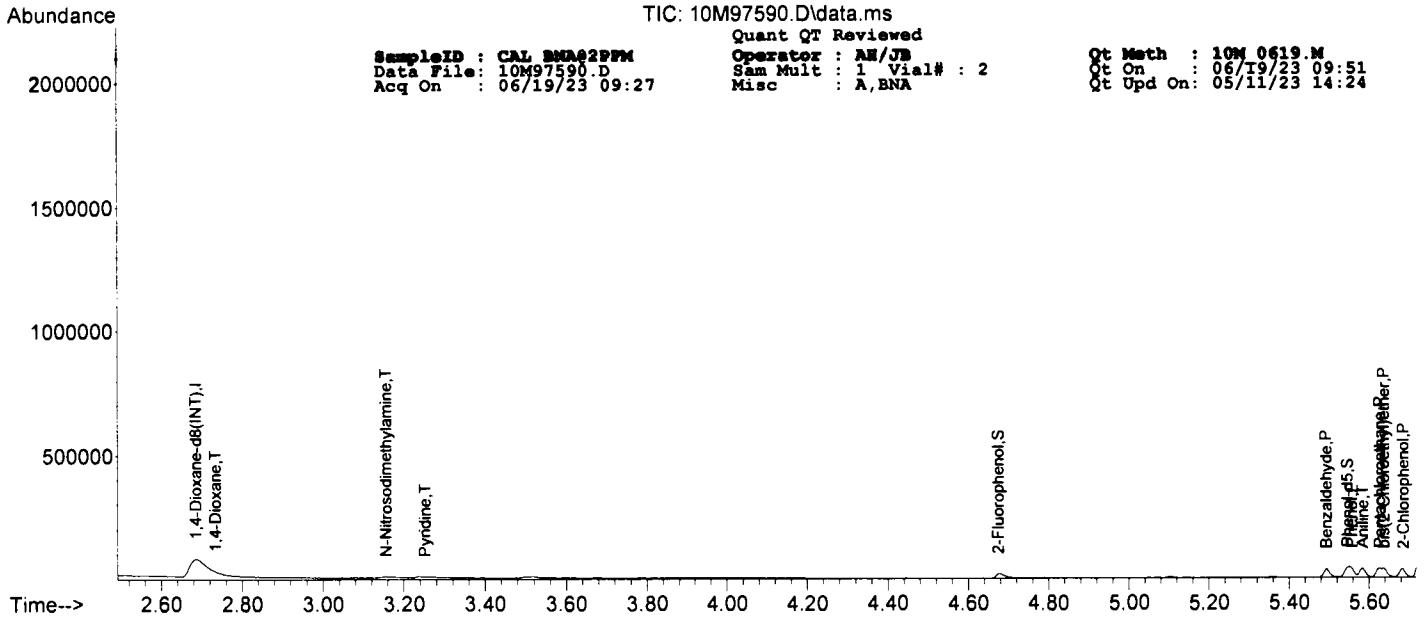
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@2PPM Operator : AH/JB Qt Meth : 10M_0619.M
Data File: 10M97590.D Sam Mult : 1 Vial# : 2 Qt On : 06/19/23 09:51
Acq On : 06/19/23 09:27 Misc : A,BNA Qt Upd On: 05/11/23 14:24

Data Path : G:\GcMsData\2023\GCMS_10\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.237	138	4414	1.6839	ng	75
67)	2,4-Dinitrophenol	0.000		0	N.D. d		
68)	Dibenzofuran	8.472	168	26802	1.9097	ng	81
69)	2,4-Dinitrotoluene	8.440	165	4842	1.5145	ng	71
70)	4-Nitrophenol	8.376	65	2565	1.2866	ng	85
71)	2,3,4,6-Tetrachlorophenol	8.579	232	3717	1.4316	ng	87
72)	Fluorene	8.793	166	21202	1.9590	ng	96
73)	4-Chlorophenyl-phenyle...	8.782	204	9796	1.8367	ng	81
74)	Diethylphthalate	8.654	149	20959	2.1276	ng	96
75)	4-Nitroaniline	8.798	138	4186	1.4609	ng	71
76)	Atrazine	9.419	200	5247	1.8172	ng	99
78)	4,6-Dinitro-2-methylph...	0.000		0	N.D. d		
79)	n-Nitrosodiphenylamine	8.889	169	17968	2.0644	ng	95
81)	1,2-Diphenylhydrazine	8.937	77	23134	2.0950	ng	84
82)	4-Bromophenyl-phenylether	9.269	248	4895	1.7135	ng	86
83)	Hexachlorobenzene	9.338	284	5333	1.6858	ng	74
84)	N-Octadecane	9.601	57	10543	2.1587	ng	83
85)	Pentachlorophenol	0.000		0	N.D. d		
86)	Phenanthrene	9.772	178	30654	2.0435	ng	98
87)	Anthracene	9.831	178	28825	1.9188	ng	98
88)	Carbazole	9.996	167	26884	1.9376	ng	98
89)	Di-n-butylphthalate	10.371	149	27813	1.9057	ng	97
90)	Fluoranthene	11.098	202	28730	1.8512	ng	95
92)	Pyrene	11.366	202	30567	1.9950	ng	89
93)	Benzidine	11.253	184	12653	1.7573	ng	92
95)	4,4'-DDE	11.478	246	5898	1.9290	ng	95
96)	4,4'-DDD	11.879	235	10073	1.8477	ng	91
97)	Butylbenzylphthalate	12.125	149	10794	1.8231	ng	84
98)	4,4'-DDT	12.232	235	8046	1.8455	ng	93
99)	3,3'-Dichlorobenzidine	12.751	252	8001	1.7873	ng	94
100)	Benzo[a]anthracene	12.778	228	27548	1.9369	ng	99
101)	Chrysene	12.820	228	27293	2.0089	ng	96
102)	bis(2-Ethylhexyl)phtha...	12.815	149	15800	1.9439	ng	93
104)	Di-n-octylphthalate	13.559	149	25637	2.0671	ng	100
105)	Benzo[b]fluoranthene	13.986	252	24353	1.8463	ng	93
106)	Benzo[k]fluoranthene	14.013	252	25386	1.9564	ng	93
107)	Benzo[a]pyrene	14.345	252	21531	1.8643	ng	93
108)	Indeno[1,2,3-cd]pyrene	15.725	276	26461	1.8324	ng	80
109)	Dibenzo[a,h]anthracene	15.746	278	21749	1.8088	ng	89
110)	Benzo[g,h,i]perylene	16.099	276	22123	1.8060	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
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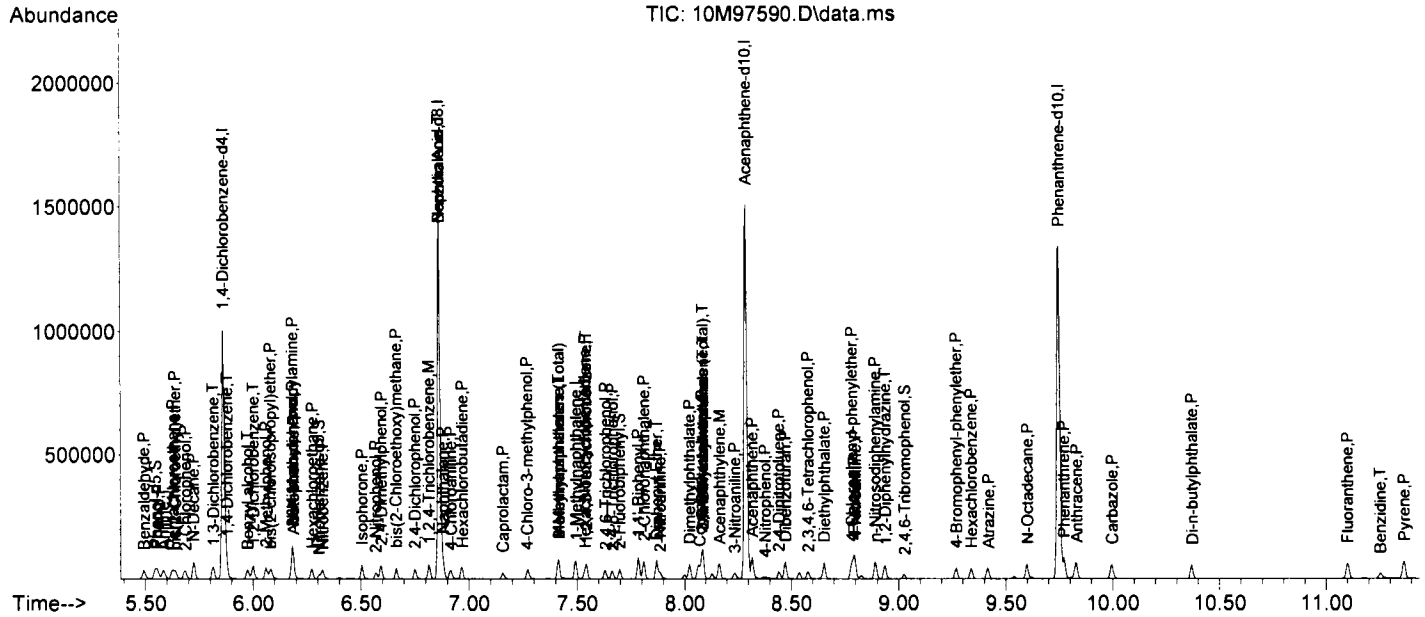
Quant QT Reviewed
SampleID : CAL BNA02PPM
Data File: 10M97590.D
Acq On : 06/19/23 09:27
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 10M_0619.M
Qt On : 06/19/23 09:51
Qt Upd On: 05/11/23 14:24
2000000
1500000
1000000
500000
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
Time-->
2.60
2.80
3.00
3.20
3.40
3.60
3.80
4.00
4.20
4.40
4.60
4.80
5.00
5.20
5.40
5.60


Abundance
TIC: 10M97590.D\data.ms
2000000
1500000
1000000
500000
1,4-Dichlorobenzene-d4,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Benzaldehyde,P
1,3-Dichlorobenzene,T
1,4-Dichlorobenzene,T
Isophorone,P
bis(2-Chloroethoxy)methane,P
2,4-Dichlorophenol,P
1,2,4-Trichlorobenzene,M
Hexachlorobutadiene,P
Caprolactam,P
4-Chloro-3-methylphenol,P
Acenaphthylene,M
3-Nitroaniline,P
Acenaphthene,P
4-Nitrophenol,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->
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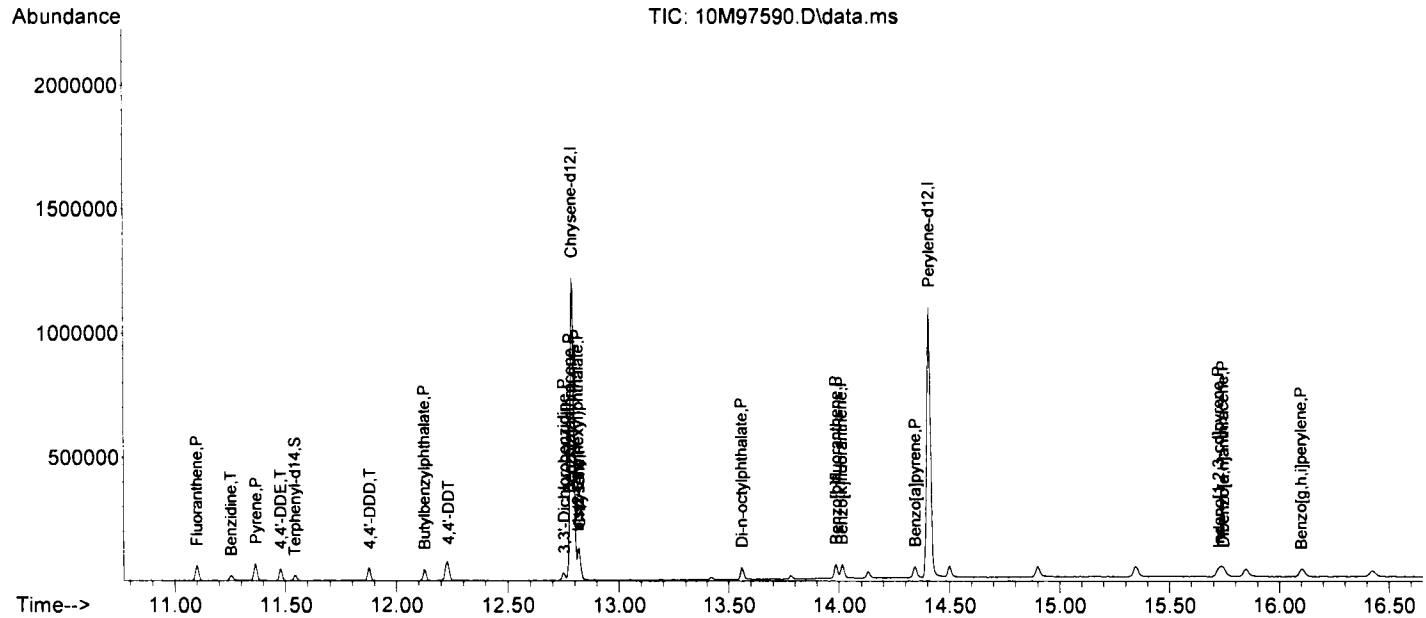
8.50
9.00
9.50
10.00
10.50
11.00


Abundance
TIC: 10M97590.D\data.ms
2000000
1500000
1000000
500000
Chrysene-d12,I
Perylene-d12,I
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Benzo[g,h,i]perylene,P
Time-->
11.00
11.50
12.00
12.50
13.00
13.50
14.00
14.50
15.00
15.50
16.00
16.50

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@10PPM Operator : AH/JB Qt Meth : 10M_0619.M
Data File: 10M97591.D Sam Mult : 1 Vial# : 3 Qt On : 06/19/23 10:12
Acq On : 06/19/23 09:53 Misc : A,BNA Qt Upd On: 05/11/23 14:24

Data Path : G:\GcMsData\2023\GCMS_10\Data\06-19-23\
Qt Path : **G:\GCMSDATA\2023\GCMS_10\METHODQT**
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.690	96	59102	40.00	ng	-0.04
21) 1,4-Dichlorobenzene-d4	5.862	152	102240	40.00	ng	-0.03
31) Naphthalene-d8	6.862	136	398538	40.00	ng	-0.03
50) Acenaphthene-d10	8.290	164	220308	40.00	ng	-0.03
77) Phenanthrene-d10	9.750	188	355412	40.00	ng	-0.03
91) Chrysene-d12	12.794	240	307141	40.00	ng	-0.04
103) Perylene-d12	14.409	264	298722	40.00	ng	-0.04
System Monitoring Compounds						
11) 2-Fluorophenol	4.680	112	29845	9.29	ng	-0.03
Spiked Amount 100.000			Recovery = 9.29%			
16) Phenol-d5	5.546	99	37053	9.22	ng	-0.02
Spiked Amount 100.000			Recovery = 9.22%			
32) Nitrobenzene-d5	6.306	128	6864	4.12	ng	-0.03
Spiked Amount 50.000			Recovery = 8.24%			
55) 2-Fluorobiphenyl	7.696	172	34078	4.52	ng	-0.03
Spiked Amount 50.000			Recovery = 9.04%			
80) 2,4,6-Tribromophenol	9.028	330	6634	7.74	ng	-0.03
Spiked Amount 100.000			Recovery = 7.74%			
94) Terphenyl-d14	11.542	244	26920	4.35	ng	-0.04
Spiked Amount 50.000			Recovery = 8.70%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.722	88	16551	11.1043	ng	83
9) Pyridine	3.209	79	25379	8.2795	ng	76
10) N-Nitrosodimethylamine	3.139	74	20830	8.9036	ng	87
12) Benzaldehyde	5.493	77	25823	9.1466	ng	73
13) Aniline	5.584	93	47027	9.1401	ng	71
14) Pentachloroethane	5.626	117	12561	10.8817	ng	84
15) bis(2-Chloroethyl)ether	5.637	93	34863	9.5609	ng	81
17) Phenol	5.557	94	43255	8.9874	ng	85
18) 2-Chlorophenol	5.685	128	33322	9.9779	ng	78
19) N-Decane	5.723	57	41078	11.6131	ng	93
20) 1,3-Dichlorobenzene	5.814	146	37555	10.4038	ng	98
22) 1,4-Dichlorobenzene	5.878	146	38403	9.4672	ng	96
23) 1,2-Dichlorobenzene	6.001	146	35765	9.3122	ng	95
24) Benzyl alcohol	5.974	108	21089	8.3907	ng	72
25) bis(2-chloroisopropyl)...	6.081	45	49481	10.6989	ng	97
26) 2-Methylphenol	6.060	108	30334	8.5837	ng	94
27) Acetophenone	6.188	105	48309	10.6300	ng	65
28) Hexachloroethane	6.274	117	14846	9.6020	ng	81
29) N-Nitroso-di-n-propyla...	6.183	70	24043	9.3873	ng	80
30) 3&4-Methylphenol	6.183	108	32708	9.3964	ng	96
33) Nitrobenzene	6.322	77	34566	8.7080	ng	81
34) Isophorone	6.504	82	62392	8.5145	ng	89
35) 2-Nitrophenol	6.568	139	15846	8.3955	ng	90
36) 2,4-Dimethylphenol	6.595	107	31266	8.7813	ng	91
37) Benzoic Acid	6.659	105	5256m	2.8147	ng	
38) bis(2-Chloroethoxy)met...	6.664	93	38490	8.4903	ng	95
39) 2,4-Dichlorophenol	6.750	162	25448	8.9513	ng	88
40) 1,2,4-Trichlorobenzene	6.814	180	27968	8.7074	ng	99
41) Naphthalene	6.878	128	101635	8.9983	ng	99
42) 4-Chloroaniline	6.915	127	37552m	9.4881	ng	
43) Hexachlorobutadiene	6.969	225	14343	8.4417	ng	96
44) Caprolactam	7.162	113	9595	8.6451	ng	69
45) 4-Chloro-3-methylphenol	7.269	107	26779	8.7960	ng	83
46) 2-Methylnaphthalene	7.413	142	65668	9.4576	ng	98
47) 1-Methylnaphthalene	7.493	142	61859	9.4160	ng	96
48) Methylnaphthalenes (To...	7.413	142	126789m	18.7402	ng	
49) 1,1'-Biphenyl	7.782	154	81887	9.5938	ng	96
51) 1,2,4,5-Tetrachloroben...	7.541	216	28423	9.5343	ng	96
52) Hexachlorocyclopentadiene	7.536	237	10404	7.4769	ng	96
53) 2,4,6-Trichlorophenol	7.632	196	17083m	8.8597	ng	
54) 2,4,5-Trichlorophenol	7.659	196	18030m	8.7073	ng	
56) 2-Chloronaphthalene	7.809	162	59919	9.3768	ng	90
57) 1,4-Dimethylnaphthalene	8.087	156	51662	10.0425	ng	88
58) Dimethylnaphthalenes (...	8.087	156	51662	10.0425	ng	88
59) Diphenyl Ether	7.868	170	44010	10.0762	ng	79
60) 2-Nitroaniline	7.884	65	20358	9.2260	ng	57
61) Coumarin	8.065	146	24864	10.0146	ng	90
62) Acenaphthylene	8.167	152	85440	9.2835	ng	99
63) Dimethylphthalate	8.023	163	64801	9.2353	ng	93
64) 2,6-Dinitrotoluene	8.082	165	14778	9.8278	ng	75
65) Acenaphthene	8.317	153	59721	9.2180	ng	97

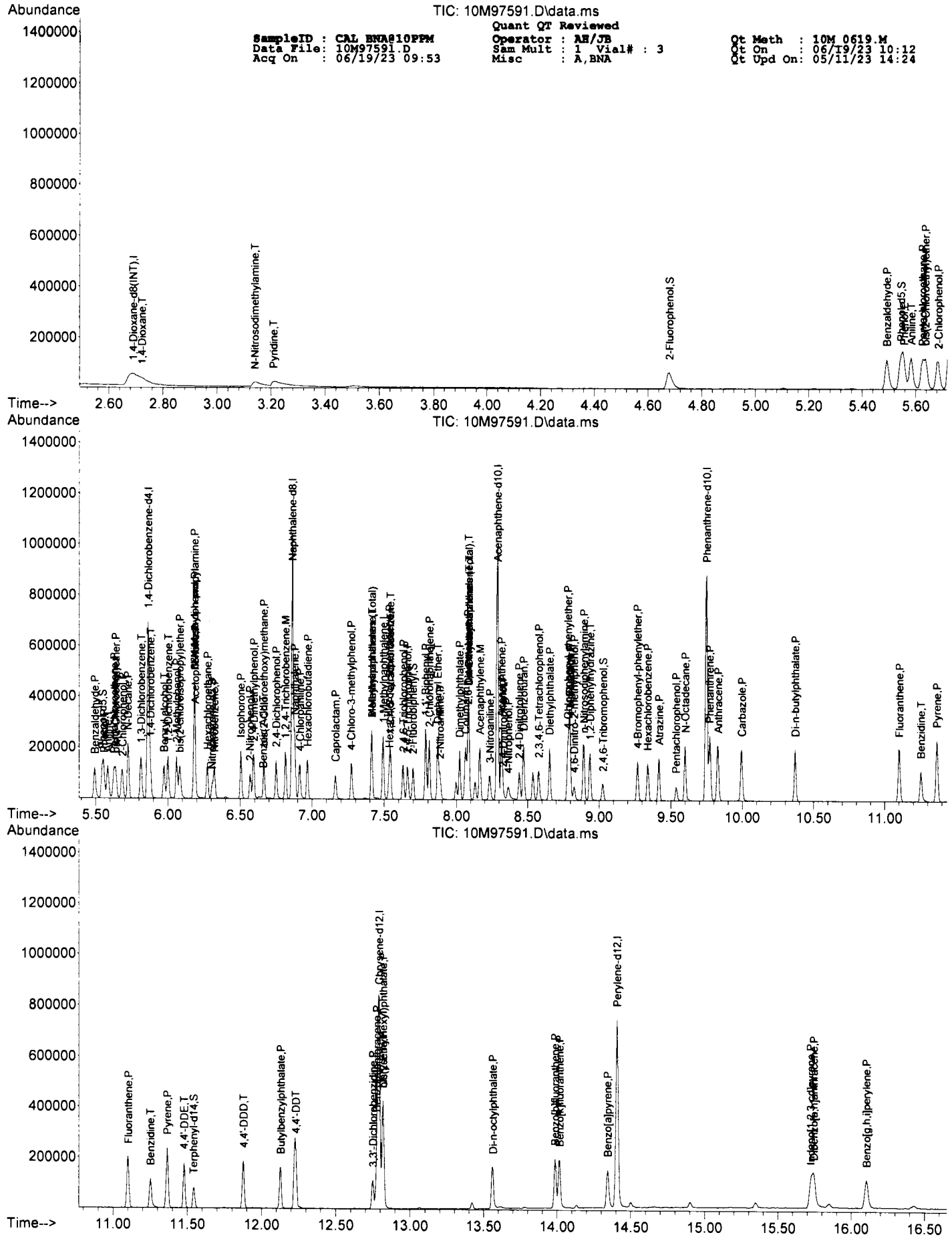
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@10PPM Operator : AH/JB Qt Meth : 10M_0619.M
Data File: 10M97591.D Sam Mult : 1 Vial# : 3 Qt On : 06/19/23 10:12
Acq On : 06/19/23 09:53 Misc : A,BNA Qt Upd On: 05/11/23 14:24

Data Path : G:\GcMsData\2023\GCMS_10\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.237	138	16648	9.4208	ng	76
67)	2,4-Dinitrophenol	8.328	184	4022	5.5121	ng	60
68)	Dibenzofuran	8.472	168	84361	8.9165	ng	85
69)	2,4-Dinitrotoluene	8.440	165	17903	8.3066	ng	68
70)	4-Nitrophenol	8.365	65	9286	6.9093	ng	91
71)	2,3,4,6-Tetrachlorophenol	8.579	232	13941	7.9646	ng	88
72)	Fluorene	8.793	166	69607	9.5403	ng	97
73)	4-Chlorophenyl-phenyle...	8.782	204	30816	8.5708	ng	82
74)	Diethylphthalate	8.654	149	64544	9.7191	ng	97
75)	4-Nitroaniline	8.798	138	16918	8.7585	ng	73
76)	Atrazine	9.419	200	17557	9.0197	ng	98
78)	4,6-Dinitro-2-methylph...	8.825	198	7591	7.4982	ng	54
79)	n-Nitrosodiphenylamine	8.895	169	56954	9.9087	ng	99
81)	1,2-Diphenylhydrazine	8.937	77	68776	9.4314	ng	82
82)	4-Bromophenyl-phenylether	9.269	248	16285	8.6321	ng	88
83)	Hexachlorobenzene	9.338	284	17290	8.2760	ng	78
84)	N-Octadecane	9.601	57	35829	11.1089	ng	84
85)	Pentachlorophenol	9.536	266	6274	6.4141	ng	93
86)	Phenanthrene	9.772	178	96359	9.7268	ng	98
87)	Anthracene	9.831	178	96192	9.6960	ng	99
88)	Carbazole	9.996	167	90725	9.9016	ng	97
89)	Di-n-butylphthalate	10.371	149	96897	10.0534	ng	98
90)	Fluoranthene	11.103	202	93921	9.1637	ng	87
92)	Pyrene	11.366	202	100346	9.6517	ng	89
93)	Benzidine	11.253	184	52217	10.6873	ng	91
95)	4,4'-DDE	11.478	246	18944	9.1307	ng	94
96)	4,4'-DDD	11.879	235	33766	9.1275	ng	91
97)	Butylbenzylphthalate	12.130	149	39041	9.7176	ng	71
98)	4,4'-DDT	12.232	235	28646	9.6830	ng	96
99)	3,3'-Dichlorobenzidine	12.751	252	26729	8.7992	ng	94
100)	Benzo[a]anthracene	12.778	228	88708	9.1912	ng	99
101)	Chrysene	12.820	228	86915	9.4277	ng	98
102)	bis(2-Ethylhexyl)phtha...	12.820	149	56098	10.1710	ng	93
104)	Di-n-octylphthalate	13.564	149	89125	10.6052	ng	99
105)	Benzo[b]fluoranthene	13.986	252	79607	8.9065	ng	96
106)	Benzo[k]fluoranthene	14.019	252	83327	9.4770	ng	92
107)	Benzo[a]pyrene	14.345	252	69064	8.8249	ng	92
108)	Indeno[1,2,3-cd]pyrene	15.725	276	86842	8.8746	ng	86
109)	Dibenzo[a,h]anthracene	15.746	278	71016	8.7160	ng	91
110)	Benzo[g,h,i]perylene	16.104	276	71031	8.5575	ng	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed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Quant QT Reviewed
SampleID : CAL BNA@10PPM
Data File: 10M97591.D
Acq On : 06/19/23 09:53
Operator : AH/JB
Sam Mult : 1 Vial# : 3
Misc : A,BNA
Qt Meth : 10M_0619.M
Qt On : 06/19/23 10:12
Qt Upd On: 05/11/23 14:24
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
Time-->
Abundance
TIC: 10M97591.D\data.ms
Benzaldehyde,P
1,3-Dichlorobenzene,T
1,4-Dichlorobenzene-d4,I
1,4-Dichlorobenzene,T
Benzyl alcohol,T
Hexachloroethane,P
Isophorone,P
2,4-Dichlorophenol,P
1,2,4-Trichlorobenzene,M
Naphthalene-d8,I
4-Chloroaniline,P
Hexachlorobutadiene,P
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Methylnaphthalene,P
Hexachlorocyclopentadiene,T
2,4,6-Trichlorophenol,S
2-Chloronaphthalene,P
2-Nitroaniline,T
Dimethylphthalate,P
Acenaphthylene,M
3-Nitroaniline,P
Acenaphthene-d10,I
Acenaphthene,P
2,4-Dinitrophenol,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4,6-Dinitro-2-methylphenol,P
1,2-Diphenylhydrazine,T
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene-d10,I
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->
Abundance
TIC: 10M97591.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Perylene-d12,I
Benzo[a]pyrene,P
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@20PPM Operator : AH/JB Qt Meth : 10M_0619.M
Data File: 10M97596.D Sam Mult : 1 Vial# : 8 Qt On : 06/19/23 12:47
Acq On : 06/19/23 11:45 Misc : A,BNA Qt Upd On: 06/19/23 12:46

Data Path : G:\GcMsData\2023\GCMS_10\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_10\METHODQT
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.690	96	65763	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.862	152	116259	40.00	ng	0.00
31) Naphthalene-d8	6.862	136	453405	40.00	ng	0.00
50) Acenaphthene-d10	8.290	164	245004	40.00	ng	0.00
77) Phenanthrene-d10	9.750	188	405872	40.00	ng	0.00
91) Chrysene-d12	12.794	240	350733	40.00	ng	0.00
103) Perylene-d12	14.409	264	336228	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.680	112	74771	20.93	ng	0.00
Spiked Amount 100.000			Recovery = 20.93%			
16) Phenol-d5	5.546	99	93412	20.89	ng	0.00
Spiked Amount 100.000			Recovery = 20.89%			
32) Nitrobenzene-d5	6.306	128	18235	9.63	ng	0.00
Spiked Amount 50.000			Recovery = 19.26%			
55) 2-Fluorobiphenyl	7.696	172	85625	10.21	ng	0.00
Spiked Amount 50.000			Recovery = 20.42%			
80) 2,4,6-Tribromophenol	9.028	330	17026	17.40	ng	0.00
Spiked Amount 100.000			Recovery = 17.40%			
94) Terphenyl-d14	11.547	244	67492	9.55	ng	0.00
Spiked Amount 50.000			Recovery = 19.10%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.727	88	36910	22.2553	ng	76
9) Pyridine	3.203	79	65675	19.2554	ng	70
10) N-Nitrosodimethylamine	3.139	74	51745	19.8777	ng	83
12) Benzaldehyde	5.493	77	64776	20.6200	ng	76
13) Aniline	5.584	93	116859	20.4120	ng	36
14) Pentachloroethane	5.626	117	30179	23.4962	ng	84
15) bis(2-Chloroethyl)ether	5.642	93	85220	21.0038	ng	80
17) Phenol	5.557	94	110477	20.6296	ng	84
18) 2-Chlorophenol	5.685	128	82779	22.2766	ng	80
19) N-Decane	5.728	57	96997	24.6443	ng	96
20) 1,3-Dichlorobenzene	5.814	146	89637	22.3167	ng	96
22) 1,4-Dichlorobenzene	5.878	146	90742	19.6724	ng	99
23) 1,2-Dichlorobenzene	6.001	146	87268	19.9823	ng	99
24) Benzyl alcohol	5.974	108	54459	19.0548	ng	70
25) bis(2-chloroisopropyl)...	6.081	45	118755	22.5811	ng	97
26) 2-Methylphenol	6.060	108	77589	19.3080	ng	93
27) Acetophenone	6.188	105	120408	23.3000	ng	67
28) Hexachloroethane	6.274	117	34869	19.8330	ng	82
29) N-Nitroso-di-n-propyla...	6.183	70	60465	20.7611	ng	79
30) 3&4-Methylphenol	6.183	108	81194	20.5128	ng	98
33) Nitrobenzene	6.322	77	84151	18.6343	ng	82
34) Isophorone	6.504	82	155701	18.6769	ng	90
35) 2-Nitrophenol	6.568	139	42353	19.7239	ng	90
36) 2,4-Dimethylphenol	6.595	107	78159	19.2952	ng	91
37) Benzoic Acid	6.643	105	32402	14.6590	ng	81
38) bis(2-Chloroethoxy)met...	6.664	93	95992	18.6121	ng	98
39) 2,4-Dichlorophenol	6.750	162	65165	20.1479	ng	89
40) 1,2,4-Trichlorobenzene	6.819	180	68254	18.6784	ng	97
41) Naphthalene	6.878	128	247769	19.2818	ng	98
42) 4-Chloroaniline	6.915	127	94962m	21.0901	ng	
43) Hexachlorobutadiene	6.969	225	35342	18.2837	ng	97
44) Caprolactam	7.172	113	26493	20.9817	ng	68
45) 4-Chloro-3-methylphenol	7.274	107	66206	19.1148	ng	78
46) 2-Methylnaphthalene	7.413	142	160621	20.3336	ng	98
47) 1-Methylnaphthalene	7.493	142	153333	20.5154	ng	96
48) Methylnaphthalenes (To...	7.413	142	311722m	40.4990	ng	
49) 1,1'-Biphenyl	7.782	154	200429	20.6404	ng	96
51) 1,2,4,5-Tetrachloroben...	7.547	216	68279	20.5950	ng	99
52) Hexachlorocyclopentadiene	7.536	237	26874	17.3664	ng	99
53) 2,4,6-Trichlorophenol	7.632	196	42973m	20.0405	ng	
54) 2,4,5-Trichlorophenol	7.664	196	46993	20.4070	ng	99
56) 2-Chloronaphthalene	7.809	162	147176	20.7102	ng	91
57) 1,4-Dimethylnaphthalene	8.087	156	127282	22.2483	ng	90
58) Dimethylnaphthalenes (...	8.087	156	127282	22.2483	ng	90
59) Diphenyl Ether	7.867	170	108254	22.2868	ng	80
60) 2-Nitroaniline	7.884	65	52973	21.5869	ng	62
61) Coumarin	8.071	146	61732	22.3578	ng	92
62) Acenaphthylene	8.167	152	208225	20.3441	ng	99
63) Dimethylphthalate	8.028	163	159087	20.3873	ng	94
64) 2,6-Dinitrotoluene	8.087	165	37251	22.2759	ng	68
65) Acenaphthene	8.317	153	144514	20.0575	ng	97

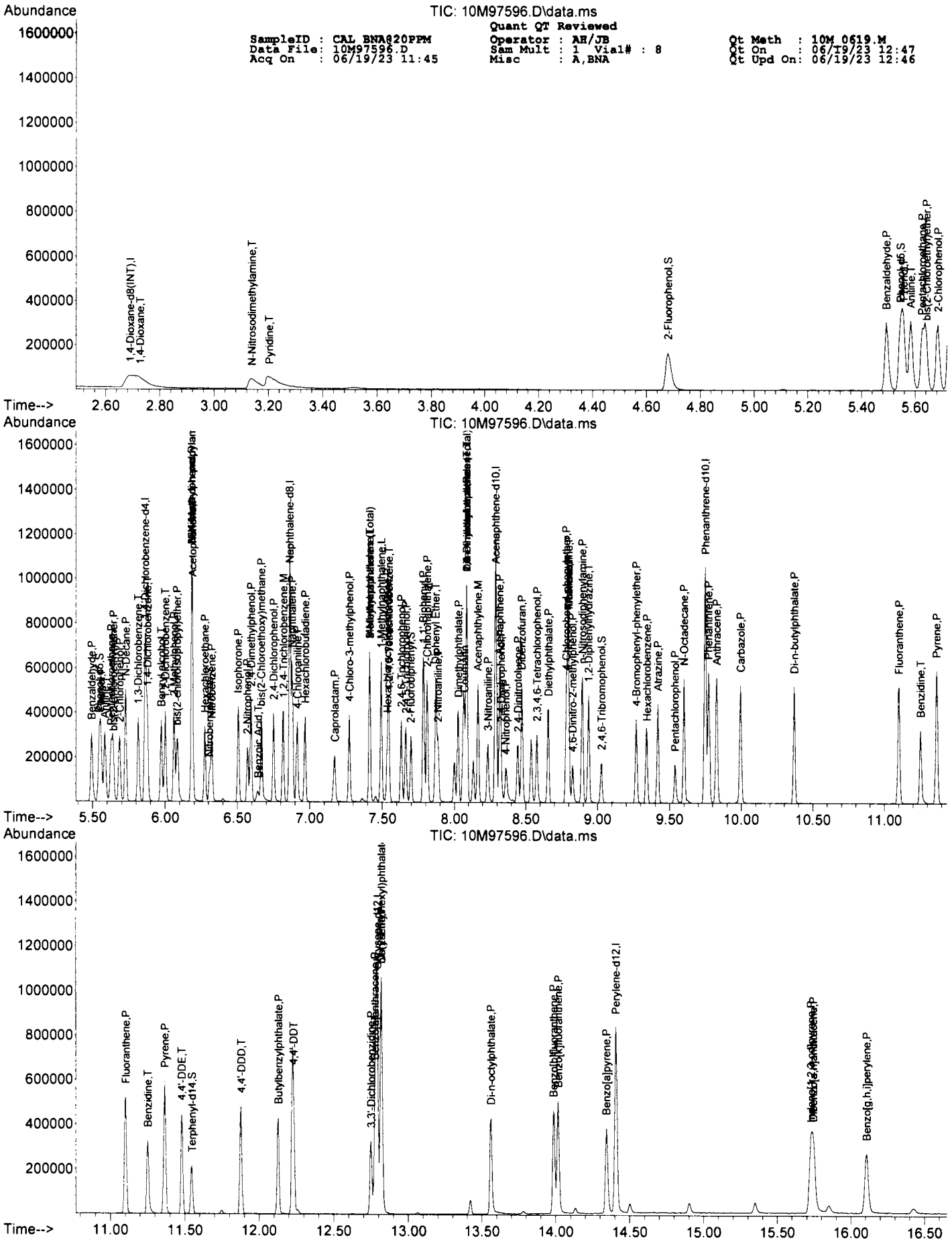
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@20PPM Operator : AH/JB Qt Meth : 10M_0619.M
Data File: 10M97596.D Sam Mult : 1 Vial# : 8 Qt On : 06/19/23 12:47
Acq On : 06/19/23 11:45 Misc : A,BNA Qt Upd On: 06/19/23 12:46

Data Path : G:\GcMsData\2023\GCMS_10\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.237	138	42524	21.6379	ng	72
67)	2,4-Dinitrophenol	8.327	184	14228	17.0392	ng	63
68)	Dibenzofuran	8.472	168	205198	19.5022	ng	87
69)	2,4-Dinitrotoluene	8.445	165	47740	19.9177	ng	62
70)	4-Nitrophenol	8.360	65	30419	20.3520	ng	93
71)	2,3,4,6-Tetrachlorophenol	8.579	232	35616	18.2966	ng	88
72)	Fluorene	8.798	166	170843	21.0554	ng	99
73)	4-Chlorophenyl-phenyle...	8.782	204	75348	18.8440	ng	87
74)	Diethylphthalate	8.659	149	154950	20.9807	ng	96
75)	4-Nitroaniline	8.798	138	44997	20.9469	ng	70
76)	Atrazine	9.419	200	44785	20.6886	ng	96
78)	4,6-Dinitro-2-methylph...	8.825	198	21452	18.2173	ng	49
79)	n-Nitrosodiphenylamine	8.894	169	142244	21.6705	ng	97
81)	1,2-Diphenylhydrazine	8.937	77	170512	20.4756	ng	86
82)	4-Bromophenyl-phenylether	9.269	248	40672	18.8784	ng	87
83)	Hexachlorobenzene	9.344	284	42026	17.6152	ng	67
84)	N-Octadecane	9.600	57	90655	24.6133	ng	81
85)	Pentachlorophenol	9.536	266	19665	17.1752	ng	92
86)	Phenanthrene	9.772	178	232446	20.5468	ng	100
87)	Anthracene	9.830	178	236635	20.8871	ng	100
88)	Carbazole	9.996	167	226415	21.6385	ng	97
89)	Di-n-butylphthalate	10.371	149	251137	22.8168	ng	97
90)	Fluoranthene	11.103	202	233710	19.9677	ng	90
92)	Pyrene	11.365	202	249982	21.0559	ng	88
93)	Benzidine	11.253	184	136322	24.4335	ng	87
95)	4,4'-DDE	11.478	246	48206	20.3468	ng	95
96)	4,4'-DDD	11.879	235	87745	20.7710	ng	92
97)	Butylbenzylphthalate	12.130	149	103703	22.6043	ng	73
98)	4,4'-DDT	12.232	235	73487	21.7530	ng	94
99)	3,3'-Dichlorobenzidine	12.751	252	72895	21.0145	ng	96
100)	Benzo[a]anthracene	12.778	228	218527	19.8278	ng	99
101)	Chrysene	12.820	228	215037	20.4262	ng	100
102)	bis(2-Ethylhexyl)phtha...	12.820	149	149648	23.7601	ng	91
104)	Di-n-octylphthalate	13.564	149	230746	24.3941	ng	98
105)	Benzo[b]fluoranthene	13.986	252	199321	19.8126	ng	93
106)	Benzo[k]fluoranthene	14.018	252	210952	21.3159	ng	93
107)	Benzo[a]pyrene	14.345	252	177306	20.1286	ng	93
108)	Indeno[1,2,3-cd]pyrene	15.730	276	215860	19.5986	ng	100
109)	Dibenzo[a,h]anthracene	15.746	278	177477	19.3526	ng	92
110)	Benzo[g,h,i]perylene	16.110	276	179571	19.2206	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed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Quant QT Reviewed
SampleID : CAL BNA@20PPM
Data File: 10M97596.D
Acq On : 06/19/23 11:45
Operator : AH/JB
Sam Mult : 1 Vial# : 8
Misc : A,BNA
Qt Meth : 10M_0619.M
Qt On : 06/19/23 12:47
Qt Upd On: 06/19/23 12:46
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@80PPM Operator : AH/JB Qt Meth : 10M_0619.M
Data File: 10M97595.D Sam Mult : 1 Vial# : 7 Qt On : 06/19/23 12:47
Acq On : 06/19/23 11:23 Misc : A,BNA Qt Upd On: 06/19/23 12:46

Data Path : G:\GcMsData\2023\GCMS_10\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.690	96	74212	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.862	152	129243	40.00	ng	0.00
31) Naphthalene-d8	6.867	136	502383	40.00	ng	0.00
50) Acenaphthene-d10	8.290	164	274212	40.00	ng	0.00
77) Phenanthrene-d10	9.750	188	456762	40.00	ng	0.00
91) Chrysene-d12	12.799	240	399448	40.00	ng	0.00
103) Perylene-d12	14.414	264	380436	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.680	112	336577	83.48	ng	0.00
Spiked Amount 100.000			Recovery = 83.48%			
16) Phenol-d5	5.546	99	408948	81.06	ng	0.00
Spiked Amount 100.000			Recovery = 81.06%			
32) Nitrobenzene-d5	6.311	128	82382	39.26	ng	0.00
Spiked Amount 50.000			Recovery = 78.52%			
55) 2-Fluorobiphenyl	7.702	172	364050	38.79	ng	0.00
Spiked Amount 50.000			Recovery = 77.58%			
80) 2,4,6-Tribromophenol	9.028	330	83130	75.49	ng	0.00
Spiked Amount 100.000			Recovery = 75.49%			
94) Terphenyl-d14	11.548	244	303867	37.76	ng	0.00
Spiked Amount 50.000			Recovery = 75.52%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.722	88	150934m	80.6462	ng	
9) Pyridine	3.188	79	290926	75.5862	ng	75
10) N-Nitrosodimethylamine	3.134	74	225804	76.8664	ng	78
12) Benzaldehyde	5.493	77	277078	78.1599	ng	76
13) Aniline	5.584	93	508136	78.6523	ng	36
14) Pentachloroethane	5.627	117	130199	89.8272	ng	84
15) bis(2-Chloroethyl)ether	5.643	93	359841	78.5912	ng	81
17) Phenol	5.562	94	480379	79.4897	ng	82
18) 2-Chlorophenol	5.685	128	358884	85.5835	ng	81
19) N-Decane	5.728	57	406577	91.5395	ng	98
20) 1,3-Dichlorobenzene	5.814	146	385214	84.9871	ng	98
22) 1,4-Dichlorobenzene	5.878	146	387431	75.5550	ng	98
23) 1,2-Dichlorobenzene	6.001	146	367995	75.7970	ng	98
24) Benzyl alcohol	5.974	108	243871	76.7564	ng	70
25) bis(2-chloroisopropyl)...	6.087	45	494349	84.5564	ng	100
26) 2-Methylphenol	6.065	108	331139	74.1255	ng	95
27) Acetophenone	6.188	105	482955	84.0671	ng	76
28) Hexachloroethane	6.274	117	150250	76.8745	ng	82
29) N-Nitroso-di-n-propyla...	6.188	70	247245	76.3649	ng	71
30) 3&4-Methylphenol	6.188	108	344169	78.2154	ng	97
33) Nitrobenzene	6.327	77	357248	71.3961	ng	77
34) Isophorone	6.509	82	668832	72.4074	ng	85
35) 2-Nitrophenol	6.573	139	194614	81.7964	ng	83
36) 2,4-Dimethylphenol	6.595	107	339987	75.7501	ng	90
37) Benzoic Acid	6.675	105	239877	80.5234	ng	86
38) bis(2-Chloroethoxy)met...	6.670	93	415471	72.7031	ng	95
39) 2,4-Dichlorophenol	6.755	162	289282	80.7212	ng	86
40) 1,2,4-Trichlorobenzene	6.819	180	297448	73.4638	ng	98
41) Naphthalene	6.884	128	1049426	73.7061	ng	99
42) 4-Chloroaniline	6.916	127	395580m	79.2892	ng	
43) Hexachlorobutadiene	6.969	225	151743	70.8487	ng	96
44) Caprolactam	7.199	113	121333	86.7243	ng	71
45) 4-Chloro-3-methylphenol	7.279	107	291514	75.9597	ng	78
46) 2-Methylnaphthalene	7.413	142	691329	78.9855	ng	98
47) 1-Methylnaphthalene	7.493	142	658585	79.5259	ng	95
48) Methylnaphthalenes (To...	7.413	142	1340969m	157.2341	ng	
49) 1,1'-Biphenyl	7.787	154	852225	79.2069	ng	95
51) 1,2,4,5-Tetrachloroben...	7.547	216	296502	79.9078	ng	98
52) Hexachlorocyclopentadiene	7.536	237	136195	78.6366	ng	99
53) 2,4,6-Trichlorophenol	7.632	196	194256m	80.9421	ng	
54) 2,4,5-Trichlorophenol	7.670	196	212843	82.5834	ng	100
56) 2-Chloronaphthalene	7.814	162	627215	78.8587	ng	91
57) 1,4-Dimethylnaphthalene	8.092	156	535509	83.6339	ng	88
58) Dimethylnaphthalenes (...	8.092	156	535509	83.6339	ng	88
59) Diphenyl Ether	7.873	170	469124	86.2934	ng	75
60) 2-Nitroaniline	7.889	65	228834	83.3187	ng	50
61) Coumarin	8.076	146	267593	86.5925	ng	81
62) Acenaphthylene	8.173	152	917050	80.0546	ng	99
63) Dimethylphthalate	8.033	163	688487	78.8330	ng	94
64) 2,6-Dinitrotoluene	8.092	165	158210	84.5314	ng	62
65) Acenaphthene	8.322	153	621425	77.0623	ng	99

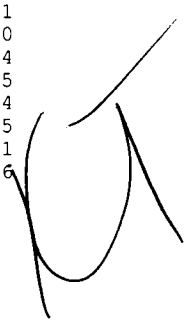
Quantitation Report (QT Reviewed)

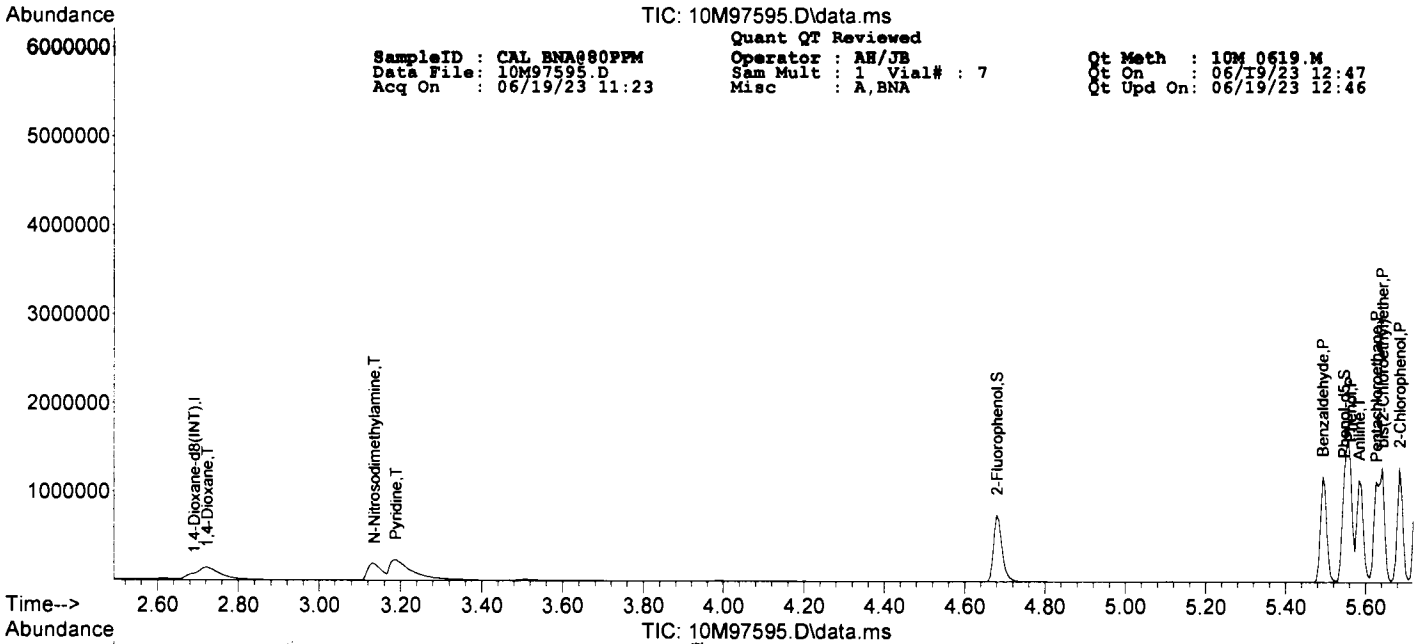
SampleID : CAL BNA@80PPM Operator : AH/JB Qt Meth : 10M_0619.M
Data File: 10M97595.D Sam Mult : 1 Vial# : 7 Qt On : 06/19/23 12:47
Acq On : 06/19/23 11:23 Misc : A,BNA Qt Upd On: 06/19/23 12:46

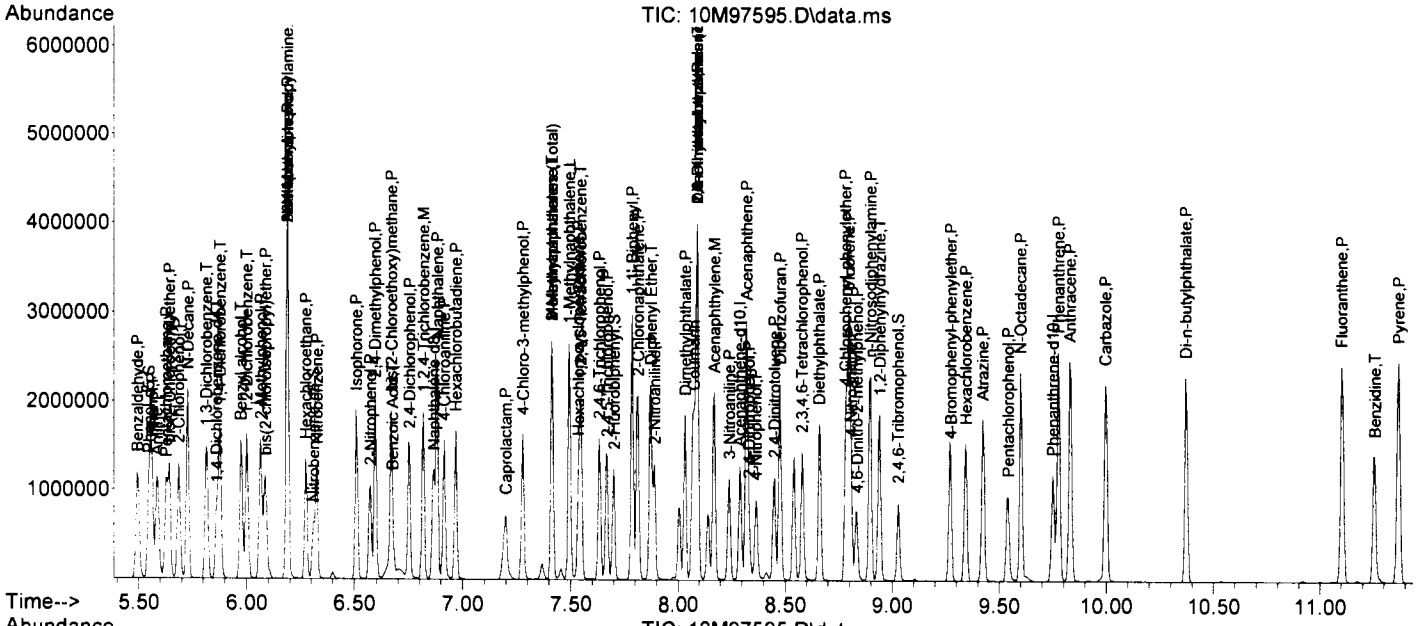
Data Path : G:\GcMsData\2023\GCMS_10\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

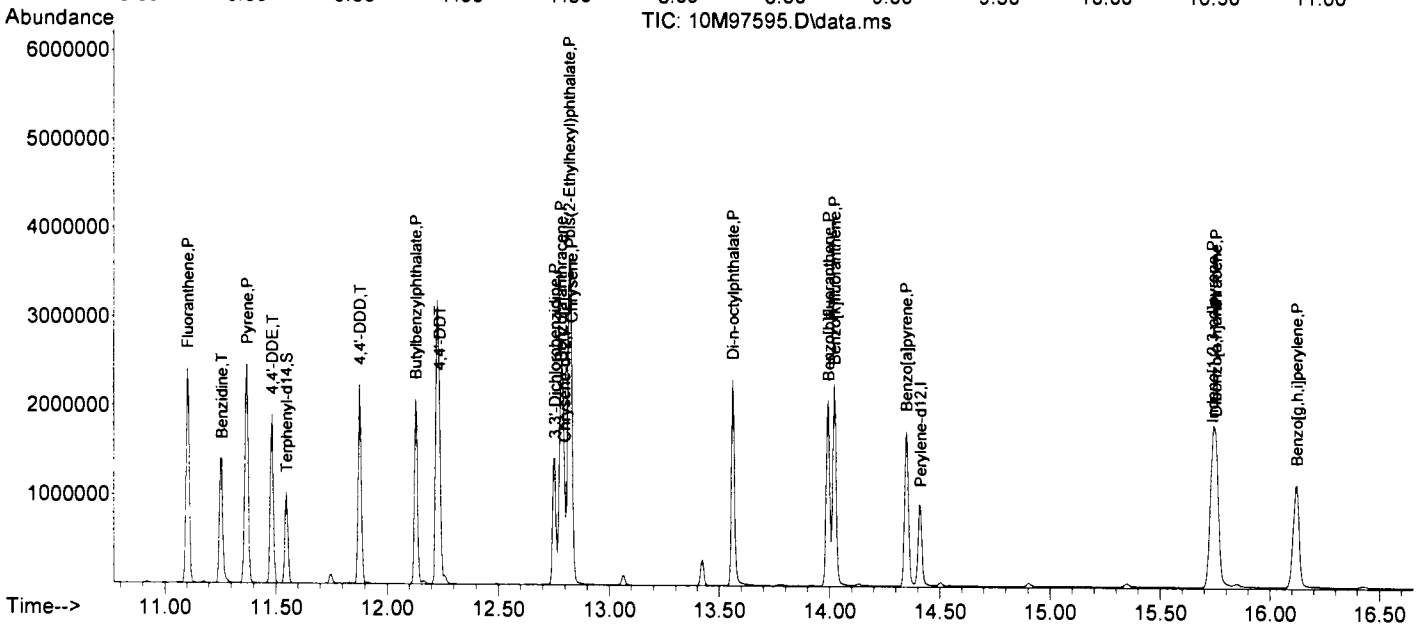
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.242	138	184130	83.7130	ng	73
67)	2,4-Dinitrophenol	8.333	184	88787	81.9781	ng	43
68)	Dibenzofuran	8.477	168	881683	74.8703	ng	84
69)	2,4-Dinitrotoluene	8.451	165	213871	79.7250	ng	62
70)	4-Nitrophenol	8.365	65	141630	84.6652	ng	92
71)	2,3,4,6-Tetrachlorophenol	8.579	232	166810	76.5656	ng	87
72)	Fluorene	8.798	166	736397	81.0897	ng	99
73)	4-Chlorophenyl-phenyle...	8.782	204	331447	74.0632	ng	86
74)	Diethylphthalate	8.659	149	670847	81.1594	ng	95
75)	4-Nitroaniline	8.809	138	205816	85.6056	ng	70
76)	Atrazine	9.424	200	206132	85.0806	ng	97
78)	4,6-Dinitro-2-methylph...	8.836	198	117384	80.1414	ng	66
79)	n-Nitrosodiphenylamine	8.900	169	622229	84.2335	ng	97
81)	1,2-Diphenylhydrazine	8.943	77	797891	85.1381	ng	80
82)	4-Bromophenyl-phenylether	9.274	248	184701	76.1795	ng	82
83)	Hexachlorobenzene	9.344	284	187288	69.7554	ng	70
84)	N-Octadecane	9.601	57	396850	95.7423	ng	81
85)	Pentachlorophenol	9.542	266	113499	77.4912	ng	94
86)	Phenanthrene	9.777	178	1009031	79.2548	ng	100
87)	Anthracene	9.831	178	1036977	81.3330	ng	99
88)	Carbazole	9.996	167	989703	84.0479	ng	98
89)	Di-n-butylphthalate	10.371	149	1154866	93.2342	ng	98
90)	Fluoranthene	11.104	202	1061672	80.6009	ng	95
92)	Pyrene	11.371	202	1105530	81.7619	ng	89
93)	Benzidine	11.259	184	607150	95.5502	ng	87
95)	4,4'-DDE	11.483	246	218905	81.1274	ng	93
96)	4,4'-DDD	11.879	235	399721	83.0823	ng	92
97)	Butylbenzylphthalate	12.131	149	500229	95.7381	ng	76
98)	4,4'-DDT	12.238	235	332533	86.4289	ng	96
99)	3,3'-Dichlorobenzidine	12.756	252	334735	84.7303	ng	96
100)	Benzo[a]anthracene	12.783	228	969339	77.2257	ng	98
101)	Chrysene	12.831	228	928616	77.4510	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.820	149	692719	96.5721	ng	91
104)	Di-n-octylphthalate	13.564	149	1148451	107.3039	ng	100
105)	Benzo[b]fluoranthene	13.997	252	909015	79.8570	ng	94
106)	Benzo[k]fluoranthene	14.024	252	939113	83.8670	ng	95
107)	Benzo[a]pyrene	14.350	252	820288	82.3019	ng	94
108)	Indeno[1,2,3-cd]pyrene	15.741	276	1017202	81.6231	ng	95
109)	Dibenzo[a,h]anthracene	15.757	278	853815	82.2835	ng	91
110)	Benzo[g,h,i]perylene	16.126	276	825611	78.1015	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed




Abundance
TIC: 10M97595.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@80PPM
Data File: 10M97595.D
Acq On : 06/19/23 11:23
Operator : AH/JB
Sam Mult : 1 Vial# : 7
Misc : A,BNA
Qt Meth : 10M_0619.M
Qt On : 06/19/23 12:47
Qt Upd On: 06/19/23 12:46
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
Time-->


Abundance
TIC: 10M97595.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
Acenaphthylene,M
Diethylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 10M97595.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@120PPM Operator : AH/JB Qt Meth : 10M_0619.M
Data File: 10M97594.D Sam Mult : 1 Vial# : 6 Qt On : 06/19/23 12:47
Acq On : 06/19/23 11:00 Misc : A,BNA Qt Upd On: 06/19/23 12:46

Data Path : G:\GcMsData\2023\GCMS_10\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.685	96	69603	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.867	152	122489	40.00	ng	0.00
31) Naphthalene-d8	6.867	136	479589	40.00	ng	0.00
50) Acenaphthene-d10	8.295	164	261537	40.00	ng	0.00
77) Phenanthrene-d10	9.750	188	437078	40.00	ng	0.00
91) Chrysene-d12	12.799	240	380455	40.00	ng	0.00
103) Perylene-d12	14.414	264	367088	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.685	112	498697	131.88	ng	0.00
Spiked Amount 100.000			Recovery = 131.88%			
16) Phenol-d5	5.552	99	605643	127.99	ng	0.00
Spiked Amount 100.000			Recovery = 127.99%			
32) Nitrobenzene-d5	6.311	128	122661	61.24	ng	0.00
Spiked Amount 50.000			Recovery = 122.48%			
55) 2-Fluorobiphenyl	7.702	172	545743	60.97	ng	0.00
Spiked Amount 50.000			Recovery = 121.94%			
80) 2,4,6-Tribromophenol	9.034	330	129657	123.04	ng	0.00
Spiked Amount 100.000			Recovery = 123.04%			
94) Terphenyl-d14	11.547	244	454045	59.24	ng	0.00
Spiked Amount 50.000			Recovery = 118.48%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.722	88	221997m	126.4707	ng	
9) Pyridine	3.182	79	434907	120.4766	ng	74
10) N-Nitrosodimethylamine	3.134	74	334108	121.2657	ng	78
12) Benzaldehyde	5.493	77	404633	121.6997	ng	77
13) Aniline	5.589	93	751984	124.1041	ng	31
14) Pentachloroethane	5.626	117	191063	140.5475	ng	82
15) bis(2-Chloroethyl)ether	5.643	93	530330	123.4968	ng	81
17) Phenol	5.562	94	708578	125.0146	ng	82
18) 2-Chlorophenol	5.691	128	529877	134.7278	ng	79
19) N-Decane	5.728	57	591337	141.9538	ng	96
20) 1,3-Dichlorobenzene	5.819	146	567333	133.4551	ng	98
22) 1,4-Dichlorobenzene	5.878	146	572683	117.8401	ng	97
23) 1,2-Dichlorobenzene	6.001	146	542212	117.8390	ng	98
24) Benzyl alcohol	5.979	108	361694	120.1174	ng	67
25) bis(2-chloroisopropyl)...	6.086	45	723891	130.6460	ng	98
26) 2-Methylphenol	6.065	108	493890	116.6534	ng	96
27) Acetophenone	6.193	105	684474	125.7148	ng	67
28) Hexachloroethane	6.274	117	220158	118.8536	ng	82
29) N-Nitroso-di-n-propyla...	6.193	70	342717	111.6894	ng	68
30) 3&4-Methylphenol	6.188	108	483226	115.8726	ng	99
33) Nitrobenzene	6.327	77	525728	110.0605	ng	78
34) Isophorone	6.514	82	991754	112.4697	ng	83
35) 2-Nitrophenol	6.573	139	286812	126.2767	ng	85
36) 2,4-Dimethylphenol	6.600	107	497751	116.1713	ng	88
37) Benzoic Acid	6.691	105	381617	120.9770	ng	86
38) bis(2-Chloroethoxy)met...	6.669	93	606087	111.0996	ng	96
39) 2,4-Dichlorophenol	6.755	162	427096	124.8411	ng	87
40) 1,2,4-Trichlorobenzene	6.819	180	439508	113.7090	ng	98
41) Naphthalene	6.883	128	1536164	113.0199	ng	99
42) 4-Chloroaniline	6.915	127	551548m	115.8054	ng	
43) Hexachlorobutadiene	6.969	225	224136	109.6227	ng	95
44) Caprolactam	7.215	113	182452	136.6080	ng	68
45) 4-Chloro-3-methylphenol	7.279	107	436042	119.0195	ng	80
46) 2-Methylnaphthalene	7.413	142	1002901	120.0291	ng	98
47) 1-Methylnaphthalene	7.493	142	951272	120.3281	ng	95
48) Methylnaphthalenes (To...	7.413	142	1943836m	238.7554	ng	
49) 1,1'-Biphenyl	7.787	154	1231036	119.8520	ng	96
51) 1,2,4,5-Tetrachloroben...	7.547	216	437004	123.4810	ng	99
52) Hexachlorocyclopentadiene	7.536	237	206357	124.9211	ng	98
53) 2,4,6-Trichlorophenol	7.632	196	292044	127.5857	ng	99
54) 2,4,5-Trichlorophenol	7.670	196	314514	127.9461	ng	98
56) 2-Chloronaphthalene	7.814	162	920763	121.3764	ng	92
57) 1,4-Dimethylnaphthalene	8.092	156	756718	123.9091	ng	91
58) Dimethylnaphthalenes (...	8.092	156	756718	123.9091	ng	91
59) Diphenyl Ether	7.873	170	693840	133.8143	ng	75
60) 2-Nitroaniline	7.889	65	332737	127.0213	ng	57
61) Coumarin	8.082	146	393223	133.4128	ng	84
62) Acenaphthylene	8.172	152	1350074	123.5675	ng	99
63) Dimethylphthalate	8.039	163	1016361	122.0152	ng	94
64) 2,6-Dinitrotoluene	8.092	165	226864	127.0875	ng	67
65) Acenaphthene	8.322	153	916869	119.2103	ng	98

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@120PPM Operator : AH/JB Qt Meth : 10M_0619.M
Data File: 10M97594.D Sam Mult : 1 Vial# : 6 Qt On : 06/19/23 12:47
Acq On : 06/19/23 11:00 Misc : A,BNA Qt Upd On: 06/19/23 12:46

Data Path : G:\GcMsData\2023\GCMS_10\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

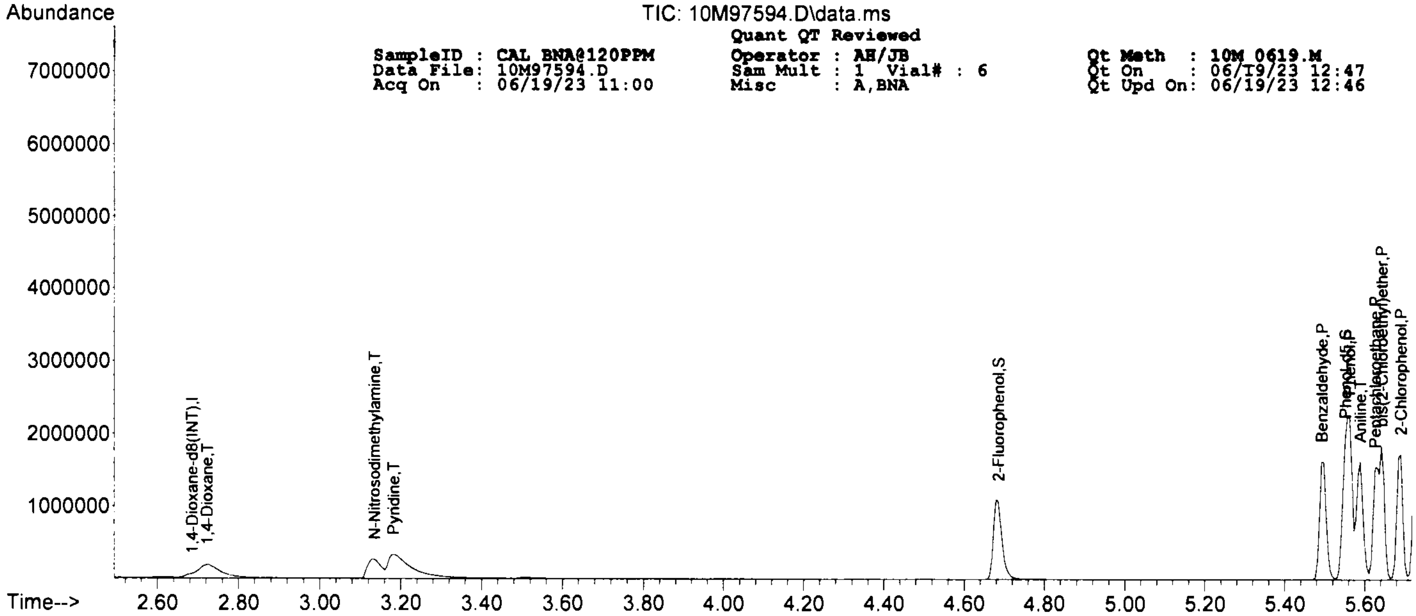
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.242	138	270385	128.8856	ng	77
67)	2,4-Dinitrophenol	8.333	184	139081	123.7310	ng	48
68)	Dibenzofuran	8.477	168	1293543	115.1678	ng	86
69)	2,4-Dinitrotoluene	8.451	165	320655	125.3240	ng	66
70)	4-Nitrophenol	8.370	65	211343	132.4619	ng	92
71)	2,3,4,6-Tetrachlorophenol	8.584	232	248005	119.3508	ng	87
72)	Fluorene	8.798	166	1069462	123.4732	ng	98
73)	4-Chlorophenyl-phenyle...	8.788	204	492074	115.2849	ng	82
74)	Diethylphthalate	8.665	149	989439	125.5040	ng	96
75)	4-Nitroaniline	8.814	138	301256	131.3748	ng	72
76)	Atrazine	9.429	200	305426	132.1735	ng	97
78)	4,6-Dinitro-2-methylph...	8.836	198	179645	120.6545	ng	59
79)	n-Nitrosodiphenylamine	8.900	169	910113	128.7540	ng	98
81)	1,2-Diphenylhydrazine	8.943	77	1065495	118.8126	ng	81
82)	4-Bromophenyl-phenylether	9.274	248	276647	119.2410	ng	84
83)	Hexachlorobenzene	9.344	284	282356	109.8995	ng	71
84)	N-Octadecane	9.601	57	580278	146.3000	ng	80
85)	Pentachlorophenol	9.542	266	179431	118.3740	ng	96
86)	Phenanthrene	9.782	178	1479323	121.4270	ng	100
87)	Anthracene	9.836	178	1515186	124.1923	ng	98
88)	Carbazole	10.002	167	1447619	128.4716	ng	98
89)	Di-n-butylphthalate	10.376	149	1693481	142.8745	ng	97
90)	Fluoranthene	11.109	202	1545503	122.6169	ng	93
92)	Pyrene	11.371	202	1597777	124.0663	ng	92
93)	Benzidine	11.259	184	846794	139.9169	ng	88
95)	4,4'-DDE	11.483	246	327264	127.3407	ng	93
96)	4,4'-DDD	11.879	235	593080	129.4261	ng	93
97)	Butylbenzylphthalate	12.130	149	735032	147.6995	ng	77
98)	4,4'-DDT	12.237	235	486366	132.7225	ng	96
99)	3,3'-Dichlorobenzidine	12.756	252	492687	130.9379	ng	96
100)	Benzo[a]anthracene	12.788	228	1427531	119.4068	ng	99
101)	Chrysene	12.831	228	1346007	117.8677	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.820	149	1010588	147.9195	ng	91
104)	Di-n-octylphthalate	13.564	149	1725417	167.0739	ng	100
105)	Benzo[b]fluoranthene	13.997	252	1398072m	127.2866	ng	
106)	Benzo[k]fluoranthene	14.029	252	1343587m	124.3513	ng	
107)	Benzo[a]pyrene	14.355	252	1230056	127.9027	ng	93
108)	Indeno[1,2,3-cd]pyrene	15.746	276	1520482	126.4442	ng	94
109)	Dibenzo[a,h]anthracene	15.768	278	1280080	127.8491	ng	90
110)	Benzo[g,h,i]perylene	16.131	276	1239951	121.5626	ng	96

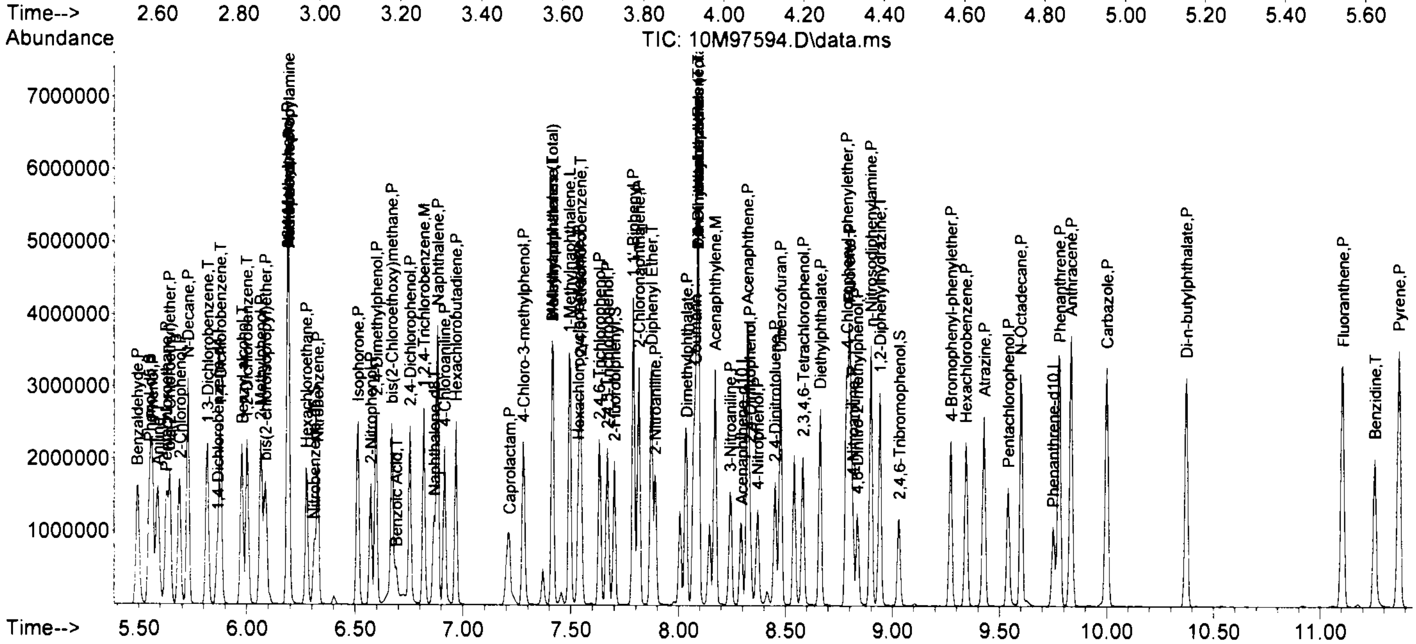
(#) = qualifier out of range (m) = manual integration (+) = signals summed

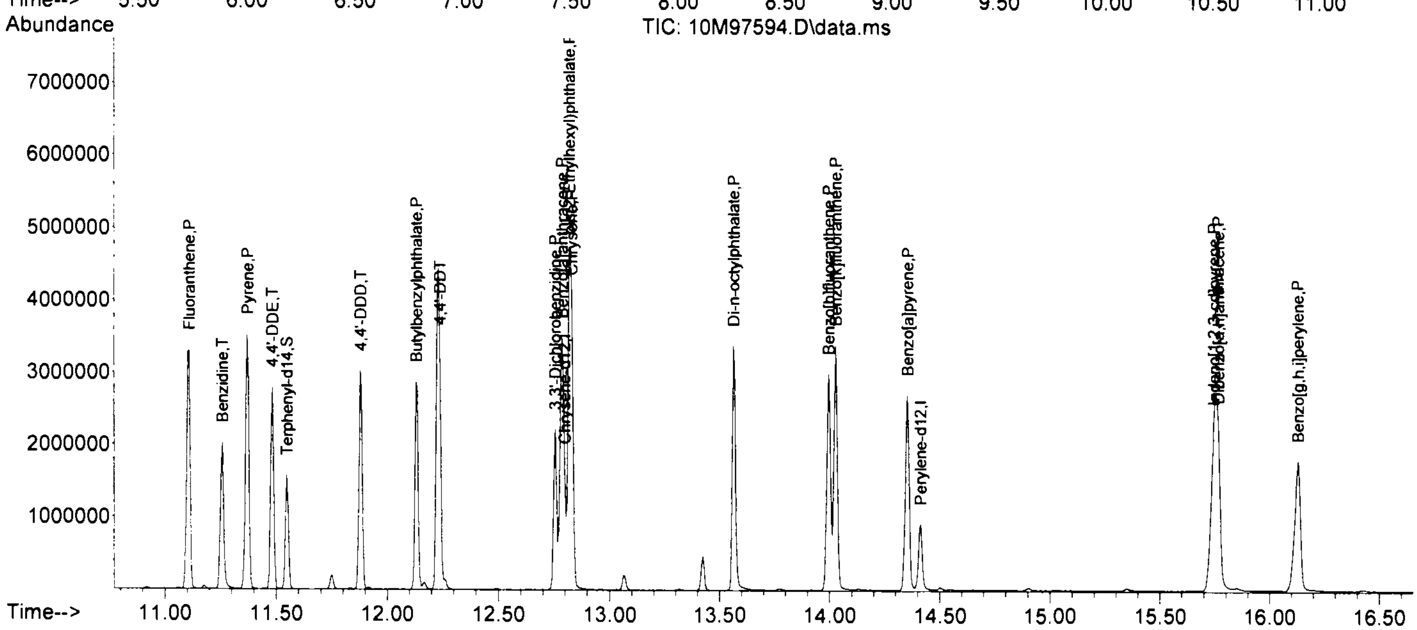
TIC: 10M97594.D\data.ms

Quant QT Reviewed

SampleID	: CAL BNA@120PPM	Operator	: AH/JB	Qt Meth	: 10M_0619.M
Data File	: 10M97594.D	Sam Mult	: 1 Vial# : 6	Qt On	: 06/19/23 12:47
Acq On	: 06/19/23 11:00	Misc	: A,BNA	Qt Upd On	: 06/19/23 12:46







Quantitation Report (QT Reviewed)

SampleID : CAL BNA@160PPM Operator : AH/JB Qt Meth : 10M_0619.M
Data File: 10M97593.D Sam Mult : 1 Vial# : 5 Qt On : 06/19/23 12:46
Acq On : 06/19/23 10:38 Misc : A,BNA Qt Upd On: 06/19/23 12:46

Data Path : G:\GcMsData\2023\GCMS_10\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.685	96	69655	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.867	152	118935	40.00	ng	0.00
31) Naphthalene-d8	6.867	136	470558	40.00	ng	0.00
50) Acenaphthene-d10	8.295	164	256908	40.00	ng	0.00
77) Phenanthrene-d10	9.750	188	429800	40.00	ng	0.00
91) Chrysene-d12	12.799	240	383265	40.00	ng	0.00
103) Perylene-d12	14.414	264	373165	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.685	112	666962	176.25	ng	0.00
Spiked Amount 100.000			Recovery = 176.25%			
16) Phenol-d5	5.557	99	800434	169.03	ng	0.01
Spiked Amount 100.000			Recovery = 169.03%			
32) Nitrobenzene-d5	6.311	128	163354	83.12	ng	0.00
Spiked Amount 50.000			Recovery = 166.24%			
55) 2-Fluorobiphenyl	7.702	172	725730	82.54	ng	0.00
Spiked Amount 50.000			Recovery = 165.08%			
80) 2,4,6-Tribromophenol	9.034	330	176249	170.09	ng	0.00
Spiked Amount 100.000			Recovery = 170.09%			
94) Terphenyl-d14	11.547	244	606430	78.54	ng	0.00
Spiked Amount 50.000			Recovery = 157.08%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.722	88	292739m	166.6476	ng	
9) Pyridine	3.187	79	573893	158.8594	ng	74
10) N-Nitrosodimethylamine	3.129	74	446586	161.9690	ng	79
12) Benzaldehyde	5.498	77	521938	156.8638	ng	73
13) Aniline	5.589	93	979894	161.5966	ng	67
14) Pentachloroethane	5.626	117	249924	183.7089	ng	83
15) bis(2-Chloroethyl)ether	5.648	93	681088	158.4850	ng	79
17) Phenol	5.568	94	928286	163.6555	ng	81
18) 2-Chlorophenol	5.691	128	703535	178.7489	ng	79
19) N-Decane	5.728	57	766752	183.9257	ng	97
20) 1,3-Dichlorobenzene	5.819	146	745237	175.1729	ng	98
22) 1,4-Dichlorobenzene	5.878	146	758160	160.6671	ng	97
23) 1,2-Dichlorobenzene	6.001	146	714959	160.0252	ng	97
24) Benzyl alcohol	5.979	108	480179	164.2310	ng	68
25) bis(2-chloroisopropyl)...	6.086	45	939510	174.6271	ng	98
26) 2-Methylphenol	6.065	108	651023	158.3620	ng	95
27) Acetophenone	6.193	105	854872	161.7030	ng	73
28) Hexachloroethane	6.274	117	291011	161.7985	ng	81
29) N-Nitroso-di-n-propyla...	6.193	70	431823	144.9338	ng	66
30) 3&4-Methylphenol	6.193	108	601809	148.6198	ng	98
33) Nitrobenzene	6.327	77	692139	147.6793	ng	80
34) Isophorone	6.514	82	1303210	150.6267	ng	85
35) 2-Nitrophenol	6.573	139	385190	172.8451	ng	85
36) 2,4-Dimethylphenol	6.600	107	659381	156.8481	ng	90
37) Benzoic Acid	6.702	105	531714	157.6976	ng	86
38) bis(2-Chloroethoxy)met...	6.675	93	797024	148.9036	ng	96
39) 2,4-Dichlorophenol	6.755	162	571065	170.1272	ng	88
40) 1,2,4-Trichlorobenzene	6.819	180	577871	152.3755	ng	98
41) Naphthalene	6.883	128	2011834	150.8570	ng	99
42) 4-Chloroaniline	6.915	127	665208m	142.3505	ng	
43) Hexachlorobutadiene	6.969	225	299369	149.2285	ng	96
44) Caprolactam	7.226	113	241803	184.5207	ng	70
45) 4-Chloro-3-methylphenol	7.285	107	575612	160.1311	ng	75
46) 2-Methylnaphthalene	7.418	142	1299993	158.5716	ng	99
47) 1-Methylnaphthalene	7.498	142	1235647	159.2989	ng	95
48) Methylnaphthalenes (To...	7.418	142	2526301m	316.2531	ng	
49) 1,1'-Biphenyl	7.787	154	1592262	157.9956	ng	96
51) 1,2,4,5-Tetrachloroben...	7.547	216	572766	164.7583	ng	98
52) Hexachlorocyclopentadiene	7.536	237	277020	170.7196	ng	99
53) 2,4,6-Trichlorophenol	7.638	196	390356	173.6081	ng	100
54) 2,4,5-Trichlorophenol	7.670	196	423222	175.2712	ng	99
56) 2-Chloronaphthalene	7.814	162	1217709	163.4125	ng	92
57) 1,4-Dimethylnaphthalene	8.098	156	946241	157.7344	ng	90
58) Dimethylnaphthalenes (...	8.098	156	946241	157.7344	ng	90
59) Diphenyl Ether	7.873	170	905714	177.8237	ng	76
60) 2-Nitroaniline	7.894	65	435648	169.3038	ng	44
61) Coumarin	8.081	146	507305	175.2199	ng	86
62) Acenaphthylene	8.172	152	1763892	164.3516	ng	99
63) Dimethylphthalate	8.039	163	1344828	164.3569	ng	94
64) 2,6-Dinitrotoluene	8.098	165	285464	162.7961	ng	62
65) Acenaphthene	8.328	153	1194259	158.0741	ng	99

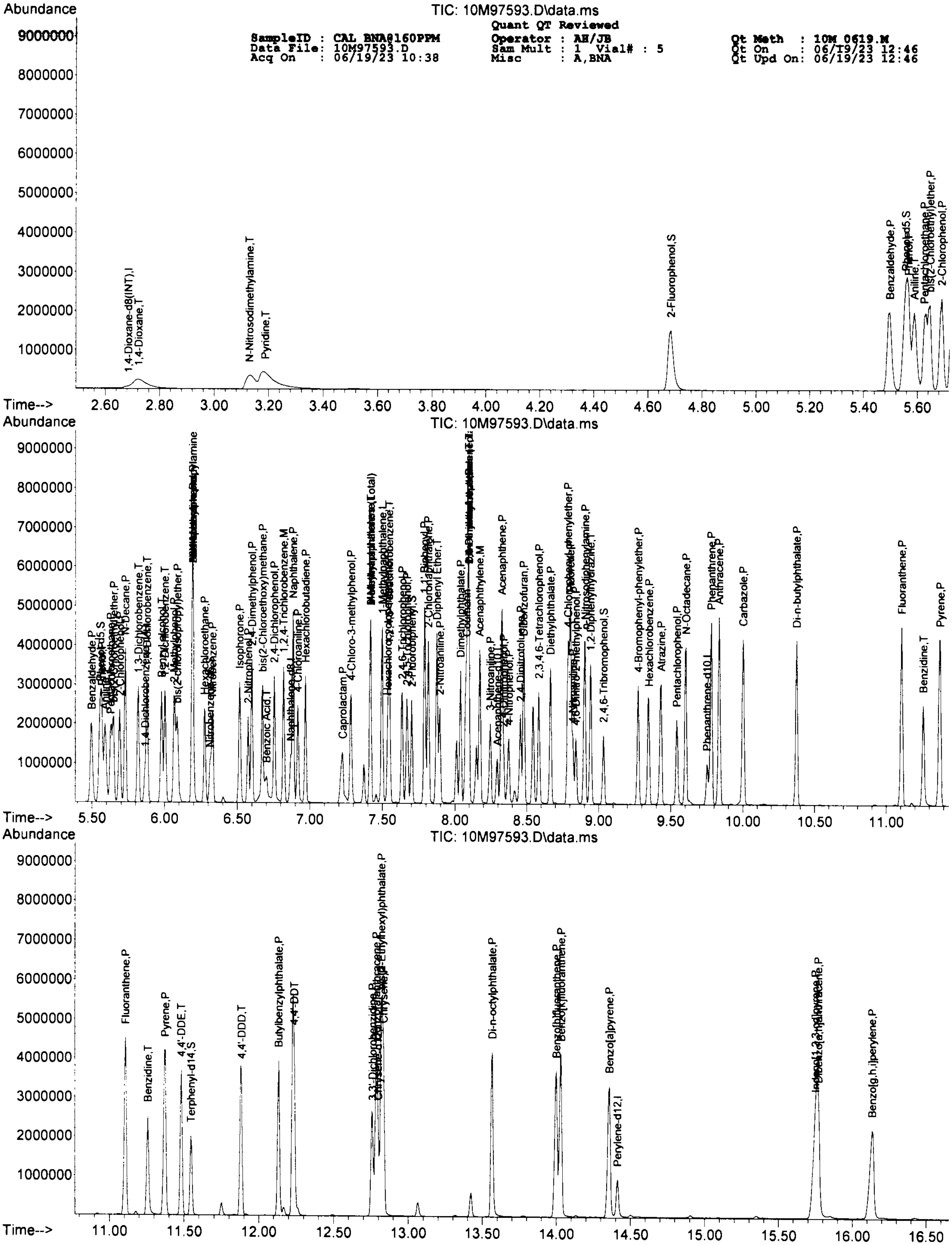
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@160PPM Operator : AH/JB Qt Meth : 10M_0619.M
Data File: 10M97593.D Sam Mult : 1 Vial# : 5 Qt On : 06/19/23 12:46
Acq On : 06/19/23 10:38 Misc : A,BNA Qt Upd On: 06/19/23 12:46

Data Path : G:\GcMsData\2023\GCMS_10\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.247	138	344698	167.2693	ng	75
67)	2,4-Dinitrophenol	8.338	184	191109	161.3160	ng	39
68)	Dibenzofuran	8.477	168	1693942	153.5339	ng	87
69)	2,4-Dinitrotoluene	8.456	165	431912	171.8490	ng	62
70)	4-Nitrophenol	8.376	65	284072	181.2538	ng	89
71)	2,3,4,6-Tetrachlorophenol	8.584	232	336577	164.8940	ng	86
72)	Fluorene	8.804	166	1384545	162.7308	ng	99
73)	4-Chlorophenyl-phenyle...	8.787	204	657282	156.7650	ng	83
74)	Diethylphthalate	8.664	149	1312187	169.4415	ng	96
75)	4-Nitroaniline	8.820	138	400242	177.6866	ng	73
76)	Atrazine	9.435	200	411276	181.1872	ng	96
78)	4,6-Dinitro-2-methylph...	8.841	198	244858	158.5416	ng	61
79)	n-Nitrosodiphenylamine	8.905	169	1195502	171.9920	ng	98
81)	1,2-Diphenylhydrazine	8.943	77	1393774	158.0506	ng	81
82)	4-Bromophenyl-phenylether	9.274	248	372639	163.3355	ng	84
83)	Hexachlorobenzene	9.349	284	381711	151.0866	ng	64
84)	N-Octadecane	9.606	57	756582	193.9800	ng	76
85)	Pentachlorophenol	9.542	266	249732	156.5313	ng	96
86)	Phenanthrene	9.782	178	1938808	161.8376	ng	100
87)	Anthracene	9.836	178	1987362	165.6525	ng	98
88)	Carbazole	10.002	167	1923653	173.6089	ng	98
89)	Di-n-butylphthalate	10.376	149	2217096	190.2180	ng	97
90)	Fluoranthene	11.109	202	2009789	162.1524	ng	97
92)	Pyrene	11.376	202	2088732	160.9995	ng	90
93)	Benzidine	11.259	184	1049092	172.0720	ng	89
95)	4,4'-DDE	11.483	246	437759	169.0862	ng	92
96)	4,4'-DDD	11.884	235	785663	170.1959	ng	94
97)	Butylbenzylphthalate	12.136	149	976732	194.8284	ng	74
98)	4,4'-DDT	12.237	235	642837	174.1351	ng	97
99)	3,3'-Dichlorobenzidine	12.762	252	636863	168.0136	ng	96
100)	Benzo[a]anthracene	12.788	228	1947373	161.6950	ng	99
101)	Chrysene	12.836	228	1790041	155.6018	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.820	149	1333431	193.7430	ng	91
104)	Di-n-octylphthalate	13.569	149	2293527	218.4679	ng	100
105)	Benzo[b]fluoranthene	14.002	252	1812390m	162.3208	ng	
106)	Benzo[k]fluoranthene	14.035	252	1861284m	169.4597	ng	
107)	Benzo[a]pyrene	14.361	252	1660986	169.8987	ng	93
108)	Indeno[1,2,3-cd]pyrene	15.751	276	2042671	167.1034	ng	92
109)	Dibenzo[a,h]anthracene	15.773	278	1723879	169.3700	ng	91
110)	Benzo[g,h,i]perylene	16.137	276	1675875	161.6241	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Abundance
TIC: 10M97593.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@160PPM
Data File: 10M97593.D
Acq On : 06/19/23 10:38
Operator : AH/JB
Sam Mult : 1 Vial# : 5
Misc : A,BNA
Qt Meth : 10M_0619.M
Qt On : 06/19/23 12:46
Qt Upd On: 06/19/23 12:46
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Aniline,T
Pentachloroethane,P
2-Chlorophenol,P
Time-->
TIC: 10M97593.D\data.ms
N-Decane,P
1,3-Dichlorobenzene,T
1,4-Dichlorobenzene,T
Benzyl alcohol,T
Hexachloroethane,P
Nitrobenzene,P
Isophorone,P
2-Nitrophenol,P
2,4-Dimethylphenol,P
bis(2-Chloroethoxy)methane,P
Benzoic Acid,T
2,4-Dichlorophenol,P
1,2,4-Trichlorobenzene,M
Naphthalene-d8,I
Naphthalene,P
4-Chloroaniline,P
Hexachlorobutadiene,P
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Nitroaniline,P
Dimethylphthalate,P
Acenaphthylene,M
3-Nitroaniline,P
Acenaphthene,P
4-Nitrophenol,P
2,4-Dinitrotoluene,P
Dibenzofuran,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Chlorophenyl-phenylether,P
1,2-Diphenylhydrazine,T
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene-d10,I
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->
TIC: 10M97593.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
bis(2-Ethylhexyl)phthalate,P
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@196PPM Operator : AH/JB Qt Meth : 10M_0619.M
Data File: 10M97592.D Sam Mult : 1 Vial# : 4 Qt On : 06/19/23 12:46
Acq On : 06/19/23 10:15 Misc : A,BNA Qt Upd On: 06/19/23 12:46

Data Path : G:\GcMsData\2023\GCMS_10\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.685	96	67023	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.867	152	114435	40.00	ng	0.00
31) Naphthalene-d8	6.867	136	459732	40.00	ng	0.00
50) Acenaphthene-d10	8.295	164	247643	40.00	ng	0.00
77) Phenanthrene-d10	9.756	188	407590	40.00	ng	0.00
91) Chrysene-d12	12.804	240	361520	40.00	ng	0.00
103) Perylene-d12	14.414	264	352945	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.685	112	826069	226.86	ng	0.00
Spiked Amount 100.000			Recovery = 226.86%			
16) Phenol-d5	5.557	99	993741	218.10	ng	0.01
Spiked Amount 100.000			Recovery = 218.10%			
32) Nitrobenzene-d5	6.316	128	205928	107.25	ng	0.00
Spiked Amount 50.000			Recovery = 214.50%			
55) 2-Fluorobiphenyl	7.702	172	905513	106.85	ng	0.00
Spiked Amount 50.000			Recovery = 213.70%			
80) 2,4,6-Tribromophenol	9.039	330	225955	229.94	ng	0.01
Spiked Amount 100.000			Recovery = 229.94%			
94) Terphenyl-d14	11.553	244	772233	106.03	ng	0.00
Spiked Amount 50.000			Recovery = 212.06%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.722	88	366090m	216.5882	ng	
9) Pyridine	3.182	79	712567	204.9917	ng	74
10) N-Nitrosodimethylamine	3.129	74	552769	208.3526	ng	79
12) Benzaldehyde	5.498	77	618114	193.0639	ng	72
13) Aniline	5.589	93	1188060	203.6198	ng	68
14) Pentachloroethane	5.626	117	309520	236.4500	ng	84
15) bis(2-Chloroethyl)ether	5.648	93	842972	203.8575	ng	79
17) Phenol	5.568	94	1147305	210.2114	ng	83
18) 2-Chlorophenol	5.691	128	867436	229.0464	ng	80
19) N-Decane	5.728	57	928870	231.5639	ng	98
20) 1,3-Dichlorobenzene	5.819	146	914880	223.4937	ng	97
22) 1,4-Dichlorobenzene	5.878	146	925982	203.9480	ng	97
23) 1,2-Dichlorobenzene	6.001	146	880574	204.8443	ng	98
24) Benzyl alcohol	5.979	108	599543	213.1195	ng	68
25) bis(2-chloroisopropyl)...	6.086	45	1159565	224.0042	ng	97
26) 2-Methylphenol	6.070	108	808029	204.2830	ng	95
27) Acetophenone	6.199	105	983942	193.4359	ng	68
28) Hexachloroethane	6.274	117	359463	207.7161	ng	83
29) N-Nitroso-di-n-propyla...	6.199	70	502460	175.2735	ng	66
30) 3&4-Methylphenol	6.193	108	686308	176.1521	ng	99
33) Nitrobenzene	6.332	77	862579	188.3796	ng	75
34) Isophorone	6.520	82	1614078	190.9504	ng	82
35) 2-Nitrophenol	6.573	139	474468	217.9201	ng	85
36) 2,4-Dimethylphenol	6.600	107	814338	198.2696	ng	92
37) Benzoic Acid	6.712	105	655458m	186.8186	ng	
38) bis(2-Chloroethoxy)met...	6.675	93	980190	187.4357	ng	96
39) 2,4-Dichlorophenol	6.760	162	701032	213.7639	ng	85
40) 1,2,4-Trichlorobenzene	6.819	180	715932	193.2255	ng	97
41) Naphthalene	6.883	128	2424128	186.0533	ng	99
42) 4-Chloroaniline	6.921	127	728715m	159.6128	ng	
43) Hexachlorobutadiene	6.969	225	369657	188.6046	ng	96
44) Caprolactam	7.231	113	326882	255.3188	ng	70
45) 4-Chloro-3-methylphenol	7.285	107	714913	203.5670	ng	80
46) 2-Methylnaphthalene	7.418	142	1572752	196.3600	ng	99
47) 1-Methylnaphthalene	7.498	142	1507695	198.9483	ng	95
48) Methylnaphthalenes (To...	7.418	142	3057347m	391.7445	ng	
49) 1,1'-Biphenyl	7.793	154	1926087	195.6207	ng	94
51) 1,2,4,5-Tetrachloroben...	7.552	216	703455	209.9221	ng	98
52) Hexachlorocyclopentadiene	7.536	237	348756	222.9695	ng	98
53) 2,4,6-Trichlorophenol	7.638	196	489401m	225.8008	ng	
54) 2,4,5-Trichlorophenol	7.675	196	530066	227.7319	ng	99
56) 2-Chloronaphthalene	7.814	162	1502875	209.2263	ng	92
57) 1,4-Dimethylnaphthalene	8.097	156	1099521	190.1427	ng	90
58) Dimethylnaphthalenes (...	8.097	156	1099521	190.1427	ng	90
59) Diphenyl Ether	7.873	170	1118027	227.7207	ng	76
60) 2-Nitroaniline	7.894	65	537564	216.7268	ng	49
61) Coumarin	8.087	146	593647	212.7130	ng	85
62) Acenaphthylene	8.178	152	2163536	209.1307	ng	99
63) Dimethylphthalate	8.044	163	1668693	211.5677	ng	94
64) 2,6-Dinitrotoluene	8.097	165	333333	197.2071	ng	72
65) Acenaphthene	8.327	153	1452751	199.4825	ng	98

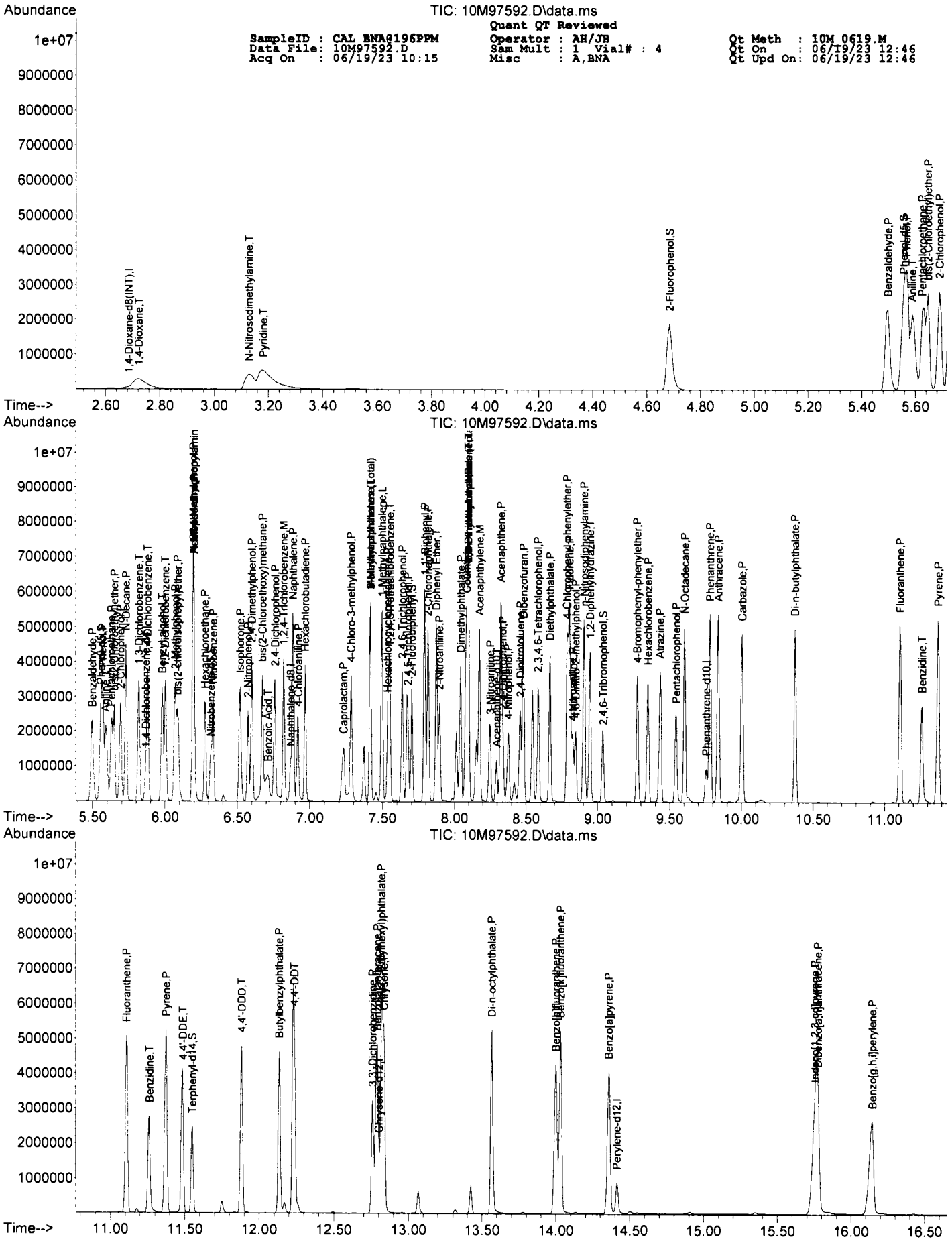
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@196PPM Operator : AH/JB Qt Meth : 10M_0619.M
Data File: 10M97592.D Sam Mult : 1 Vial# : 4 Qt On : 06/19/23 12:46
Acq On : 06/19/23 10:15 Misc : A,BNA Qt Upd On: 06/19/23 12:46

Data Path : G:\GcMsData\2023\GCMS_10\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.253	138	418679	210.7706	ng	69
67)	2,4-Dinitrophenol	8.338	184	240941	197.8968	ng	43
68)	Dibenzofuran	8.483	168	2086954	196.2322	ng	86
69)	2,4-Dinitrotoluene	8.461	165	541913	223.6829	ng	58
70)	4-Nitrophenol	8.376	65	334570	221.4610	ng	93
71)	2,3,4,6-Tetrachlorophenol	8.584	232	416124	211.4924	ng	85
72)	Fluorene	8.803	166	1683801	205.3076	ng	100
73)	4-Chlorophenyl-phenyle...	8.787	204	802587	198.5826	ng	85
74)	Diethylphthalate	8.670	149	1615534	216.4171	ng	96
75)	4-Nitroaniline	8.825	138	496095	228.4801	ng	72
76)	Atrazine	9.435	200	508347	232.3303	ng	96
78)	4,6-Dinitro-2-methylph...	8.846	198	313345	201.9197	ng	67
79)	n-Nitrosodiphenylamine	8.905	169	1484803	225.2525	ng	98
81)	1,2-Diphenylhydrazine	8.948	77	1877904	224.5536	ng	77
82)	4-Bromophenyl-phenylether	9.274	248	463950	214.4402	ng	86
83)	Hexachlorobenzene	9.349	284	475657	198.5309	ng	67
84)	N-Octadecane	9.606	57	909028	245.7656	ng	75
85)	Pentachlorophenol	9.547	266	319191	197.1690	ng	97
86)	Phenanthrene	9.782	178	2352016	207.0274	ng	100
87)	Anthracene	9.841	178	2420995	212.7933	ng	99
88)	Carbazole	10.007	167	2354114	224.0349	ng	98
89)	Di-n-butylphthalate	10.376	149	2718370	245.9339	ng	98
90)	Fluoranthene	11.109	202	2459324	209.2336	ng	98
92)	Pyrene	11.376	202	2555826	208.8526	ng	93
93)	Benzidine	11.264	184	1251435	217.6064	ng	87
95)	4,4'-DDE	11.489	246	553925	226.8250	ng	92
96)	4,4'-DDD	11.884	235	970765	222.9429	ng	94
97)	Butylbenzylphthalate	12.136	149	1216476	257.2452	ng	75
98)	4,4'-DDT	12.237	235	793231	227.7991	ng	98
99)	3,3'-Dichlorobenzidine	12.762	252	740791	207.1863	ng	97
100)	Benzo[a]anthracene	12.794	228	2347595	206.6510	ng	99
101)	Chrysene	12.836	228	2185864	201.4381	ng	100
102)	bis(2-Ethylhexyl)phtha...	12.820	149	1639039	252.4711	ng	90
104)	Di-n-octylphthalate	13.569	149	2844058	286.4284	ng	100
105)	Benzo[b]fluoranthene	14.002	252	2376329	225.0209	ng	96
106)	Benzo[k]fluoranthene	14.034	252	2244476	216.0541	ng	95
107)	Benzo[a]pyrene	14.361	252	2106816	227.8477	ng	94
108)	Indeno[1,2,3-cd]pyrene	15.757	276	2593288	224.3011	ng	92
109)	Dibenzo[a,h]anthracene	15.778	278	2178673	226.3162	ng	91
110)	Benzo[g,h,i]perylene	16.147	276	2144109	218.6278	ng	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M97592.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA0196PPM
Data File: 10M97592.D
Acq On : 06/19/23 10:15
Operator : AH/JB
Sam Mult : 1 Vial# : 4
Misc : A,BNA
Qt Meth : 10M_0619.M
Qt On : 06/19/23 12:46
Qt Upd On: 06/19/23 12:46
1e+07
9000000
8000000
7000000
6000000
5000000
4000000
3000000
2000000
1000000
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Aniline,T
Bis(2-Chloroethyl)ether,P
2-Chlorophenol,P
Time-->
2.60
2.80
3.00
3.20
3.40
3.60
3.80
4.00
4.20
4.40
4.60
4.80
5.00
5.20
5.40
5.60
Abundance
TIC: 10M97592.D\data.ms
1e+07
9000000
8000000
7000000
6000000
5000000
4000000
3000000
2000000
1000000
Benzaldehyde,P
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
Benzoic Acid,T
Naphthalene,P
Hexachlorobutadiene,P
Dimethylphthalate,P
Acenaphthylene,M
Acenaphthene,P
Diphenyl Ether,T
Fluorene,P
Diethylphthalate,P
2,3,4,6-Tetrachlorophenol,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->
5.50
6.00
6.50
7.00
7.50
8.00
8.50
9.00
9.50
10.00
10.50
11.00
Abundance
TIC: 10M97592.D\data.ms
1e+07
9000000
8000000
7000000
6000000
5000000
4000000
3000000
2000000
1000000
Fluoranthene,P
Benzidine,T
Pyrene,P
Terphenyl-d14,S
4,4'-DDE,T
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->
11.00
11.50
12.00
12.50
13.00
13.50
14.00
14.50
15.00
15.50
16.00
16.50

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@0.5PPM Operator : AH/JB Qt Meth : 10M_0619.M
Data File: 10M97597.D Sam Mult : 1 Vial# : 9 Qt On : 06/19/23 12:47
Acq On : 06/19/23 12:11 Misc : A,BNA Qt Upd On: 06/19/23 12:46

Data Path : G:\GcMsData\2023\GCMS_10\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.685	96	74101	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.862	152	127874	40.00	ng	0.00
31) Naphthalene-d8	6.862	136	498348	40.00	ng	0.00
50) Acenaphthene-d10	8.290	164	268679	40.00	ng	0.00
77) Phenanthrene-d10	9.750	188	443979	40.00	ng	0.00
91) Chrysene-d12	12.794	240	380084m	40.00	ng	0.00
103) Perylene-d12	14.409	264	371743	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	0.000	112	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
16) Phenol-d5	0.000	99	0d	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
32) Nitrobenzene-d5	0.000	128	0	0.00	ng	
Spiked Amount 50.000			Recovery =	0.00%		
55) 2-Fluorobiphenyl	0.000	172	0d	0.00	ng	
Spiked Amount 50.000			Recovery =	0.00%		
80) 2,4,6-Tribromophenol	0.000	330	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
94) Terphenyl-d14	0.000	244	0d	0.00	ng	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
8) 1,4-Dioxane	2.727	88	971m	0.5196	ng	
9) Pyridine	0.000		0	N.D. d		
10) N-Nitrosodimethylamine	0.000		0	N.D. d		
12) Benzaldehyde	0.000		0	N.D. d		
13) Aniline	5.584	93	2684	0.4161	ng	37
14) Pentachloroethane	0.000		0	N.D. d		
15) bis(2-Chloroethyl)ether	5.637	93	2143	0.4687	ng	71
17) Phenol	0.000		0	N.D. d		
18) 2-Chlorophenol	0.000		0	N.D. d		
19) N-Decane	0.000		0	N.D. d		
20) 1,3-Dichlorobenzene	0.000		0	N.D. d		
22) 1,4-Dichlorobenzene	0.000		0	N.D. d		
23) 1,2-Dichlorobenzene	0.000		0	N.D. d		
24) Benzyl alcohol	0.000		0	N.D. d		
25) bis(2-chloroisopropyl)...	0.000		0	N.D. d		
26) 2-Methylphenol	6.065	108	1735	0.3925	ng	77
27) Acetophenone	0.000		0	N.D. d		
28) Hexachloroethane	0.000		0	N.D. d		
29) N-Nitroso-di-n-propyla...	6.183	70	1362	0.4252	ng	91
30) 3&4-Methylphenol	6.188	108	1664	0.3822	ng	88
33) Nitrobenzene	0.000		0	N.D. d		
34) Isophorone	0.000		0	N.D. d		
35) 2-Nitrophenol	0.000		0	N.D. d		
36) 2,4-Dimethylphenol	6.595	107	1737	0.3901	ng	72
37) Benzoic Acid	0.000		0	N.D. d		
38) bis(2-Chloroethoxy)met...	0.000		0	N.D. d		
39) 2,4-Dichlorophenol	6.755	162	1112	0.3128	ng	78
40) 1,2,4-Trichlorobenzene	0.000		0	N.D. d		
41) Naphthalene	6.878	128	7023	0.4973	ng	97
42) 4-Chloroaniline	6.921	127	1806	0.3649	ng	93
43) Hexachlorobutadiene	0.000		0	N.D. d		
44) Caprolactam	0.000		0	N.D.		
45) 4-Chloro-3-methylphenol	0.000		0	N.D. d		
46) 2-Methylnaphthalene	0.000		0	N.D. d		
47) 1-Methylnaphthalene	0.000		0	N.D. d		
48) Methylnaphthalenes (To...	0.000		0	N.D. d		
49) 1,1'-Biphenyl	0.000		0	N.D. d		
51) 1,2,4,5-Tetrachloroben...	0.000		0	N.D. d		
52) Hexachlorocyclopentadiene	0.000		0	N.D.		
53) 2,4,6-Trichlorophenol	0.000		0	N.D. d		
54) 2,4,5-Trichlorophenol	0.000		0	N.D. d		
56) 2-Chloronaphthalene	0.000		0	N.D. d		
57) 1,4-Dimethylnaphthalene	0.000		0	N.D. d		
58) Dimethylnaphthalenes (...	0.000		0	N.D. d		
59) Diphenyl Ether	0.000		0	N.D. d		
60) 2-Nitroaniline	0.000		0	N.D. d		
61) Coumarin	0.000		0	N.D. d		
62) Acenaphthylene	0.000		0	N.D. d		
63) Dimethylphthalate	0.000		0	N.D. d		
64) 2,6-Dinitrotoluene	0.000		0	N.D. d		
65) Acenaphthene	0.000		0	N.D. d		

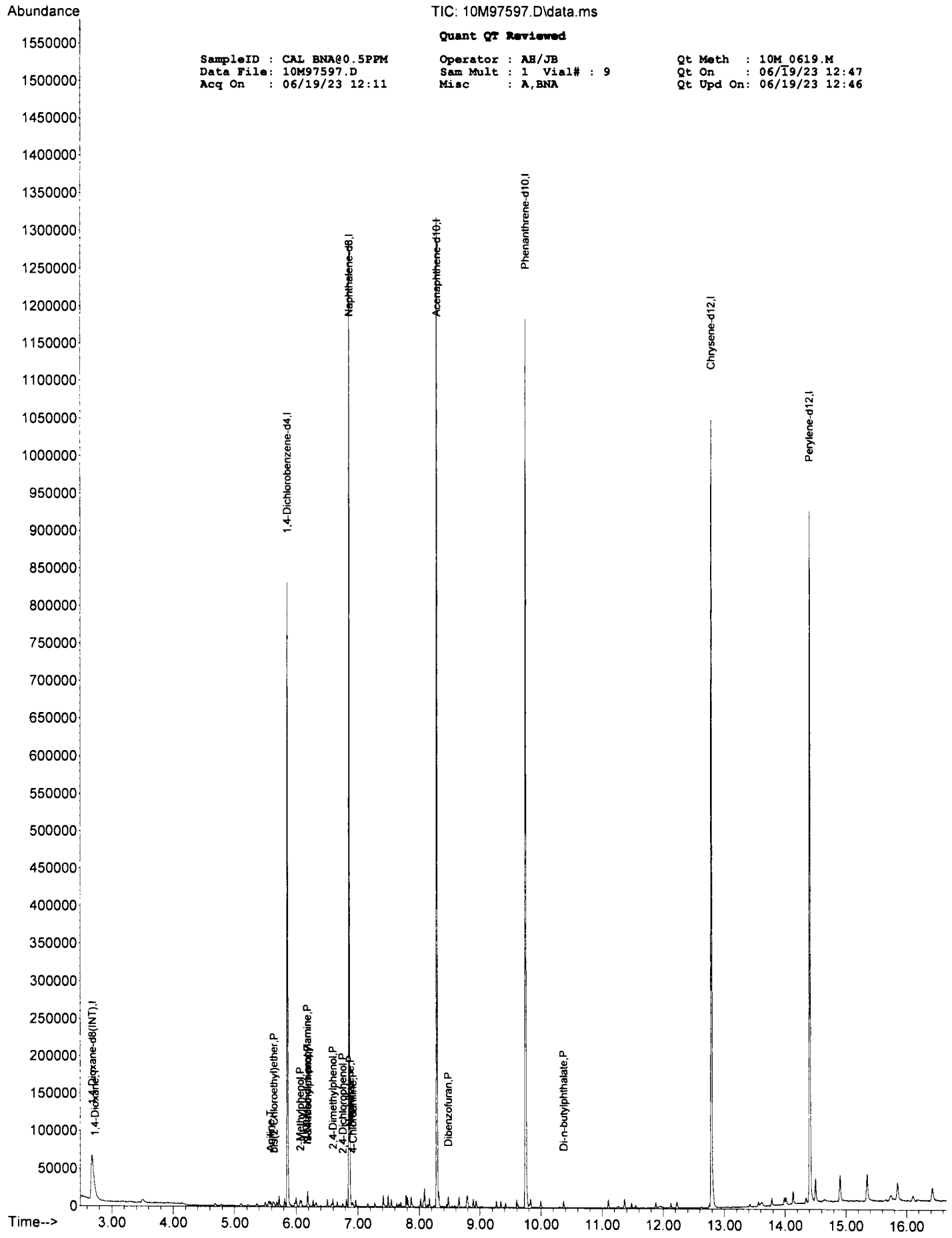
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@0.5PPM Operator : AH/JB Qt Meth : 10M_0619.M
Data File: 10M97597.D Sam Mult : 1 Vial# : 9 Qt On : 06/19/23 12:47
Acq On : 06/19/23 12:11 Misc : A,BNA Qt Upd On: 06/19/23 12:46

Data Path : G:\GcMsData\2023\GCMS_10\Data\06-19-23\
Qt Path : G:\GCMSDATA\2023\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	0.000		0	N.D. d		
67)	2,4-Dinitrophenol	0.000		0	N.D.		
68)	Dibenzofuran	8.472	168	5982	0.5184	ng	88
69)	2,4-Dinitrotoluene	0.000		0	N.D. d		
70)	4-Nitrophenol	0.000		0	N.D. d		
71)	2,3,4,6-Tetrachlorophenol	0.000		0	N.D. d		
72)	Fluorene	0.000		0	N.D. d		
73)	4-Chlorophenyl-phenyle...	0.000		0	N.D. d		
74)	Diethylphthalate	0.000		0	N.D. d		
75)	4-Nitroaniline	0.000		0	N.D. d		
76)	Atrazine	0.000		0	N.D. d		
78)	4,6-Dinitro-2-methylph...	0.000		0	N.D.		
79)	n-Nitrosodiphenylamine	0.000		0	N.D. d		
81)	1,2-Diphenylhydrazine	0.000		0	N.D. d		
82)	4-Bromophenyl-phenylether	0.000		0	N.D. d		
83)	Hexachlorobenzene	0.000		0	N.D. d		
84)	N-Octadecane	0.000		0	N.D. d		
85)	Pentachlorophenol	0.000		0	N.D.		
86)	Phenanthrene	0.000		0	N.D. d		
87)	Anthracene	0.000		0	N.D. d		
88)	Carbazole	0.000		0	N.D. d		
89)	Di-n-butylphthalate	10.371	149	4802	0.3988	ng	96
90)	Fluoranthene	0.000		0	N.D. d		
92)	Pyrene	0.000		0	N.D. d		
93)	Benzidine	0.000		0	N.D. d		
95)	4,4'-DDE	0.000		0	N.D. d		
96)	4,4'-DDD	0.000		0	N.D. d		
97)	Butylbenzylphthalate	0.000		0	N.D. d		
98)	4,4'-DDT	0.000		0	N.D. d		
99)	3,3'-Dichlorobenzidine	0.000		0	N.D. d		
100)	Benzo[a]anthracene	0.000		0	N.D. d		
101)	Chrysene	0.000		0	N.D. d		
102)	bis(2-Ethylhexyl)phtha...	0.000		0	N.D. d		
104)	Di-n-octylphthalate	0.000		0	N.D. d		
105)	Benzo[b]fluoranthene	0.000		0	N.D. d		
106)	Benzo[k]fluoranthene	0.000		0	N.D. d		
107)	Benzo[a]pyrene	0.000		0	N.D. d		
108)	Indeno[1,2,3-cd]pyrene	0.000		0	N.D. d		
109)	Dibenzo[a,h]anthracene	0.000		0	N.D. d		
110)	Benzo[g,h,i]perylene	0.000		0	N.D. d		

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M97597.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@0.5PPM
Data File: 10M97597.D
Acq On : 06/19/23 12:11
Operator : AH/JB
Sam Mult : 1 Vial# : 9
Misc : A,BNA
Qt Meth : 10M_0619.M
Qt On : 06/19/23 12:47
Qt Upd On: 06/19/23 12:46
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Chrysene-d12,I
Perylene-d12,I
1,4-Dioxane-d8(INT),I
2-Methylphenol,P
2,4-Dimethylphenol,P
Dibenzofuran,P
Di-n-butylphthalate,P
Time-->

3061429 0428

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_9

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	9M122396.D	CAL BNA@50PPM	06/21/23 14:44	2	9M122389.D	CAL BNA@2PPM	06/21/23 12:06
3	9M122388.D	CAL BNA@10PPM	06/21/23 11:44	4	9M122394.D	CAL BNA@20PPM	06/21/23 13:59
5	9M122393.D	CAL BNA@80PPM	06/21/23 13:36	6	9M122392.D	CAL BNA@120PPM	06/21/23 13:14
7	9M122391.D	CAL BNA@160PPM	06/21/23 12:51	8	9M122390.D	CAL BNA@196PPM	06/21/23 12:29
9	9M122395.D	CAL BNA@0.5PPM	06/21/23 14:21				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Avg	0.9611	1.4238	0.9981	0.9553	0.9315	0.9351	0.9872	1.0024	1.1675	1.04	2.61	0.999	0.999	15		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	1.9437	2.1164	1.6105	1.8528	1.9624	1.9897	2.1053	2.0892	-----	1.96	3.07	0.999	1.00	8.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.5581	1.7532	1.3802	1.4454	1.5185	1.5226	1.5778	1.6420	-----	1.55	3.00	0.998	1.00	7.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.3003	2.7975	2.1820	2.2190	2.2038	2.2564	2.3487	2.3679	-----	2.33	4.61	0.999	1.00	8.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	1.9967	2.9092	2.0664	1.9265	1.9625	1.9437	1.9880	1.9889	-----	2.10	5.44	1.00	1.00	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	3.1714	3.9181	2.8657	2.9913	3.0725	3.0801	3.1012	3.1597	4.1976	3.28	5.53	1.00	1.00	14		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.9135	1.1510	0.8872	0.8666	0.8705	0.8819	0.8947	0.9060	-----	0.921	5.57	1.00	1.00	10	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	2.3683	2.9182	2.2178	2.3116	2.2193	2.1913	2.2703	2.2646	3.3976	2.46	5.59	0.999	1.00	17	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	2.7478	3.4539	2.5637	2.6311	2.6517	2.7048	2.7942	2.8069	-----	2.79	5.49	0.999	1.00	10		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.2427	3.9608	3.1259	3.1332	3.1367	3.1218	3.2369	3.2530	-----	3.28	5.50	0.999	1.00	8.6	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.4813	3.3520	2.3419	2.4602	2.4208	2.4010	2.4580	2.4713	-----	2.55	5.63	1.00	1.00	13	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	2.9689	3.8171	2.7936	2.8884	2.8353	2.8319	2.8704	2.8776	-----	2.99	5.68	1.00	1.00	11	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	2.7969	3.5517	2.7402	2.7113	2.6902	2.6824	2.7151	2.7346	-----	2.83	5.77	1.00	1.00	10		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.4865	1.9598	1.4376	1.4283	1.4711	1.4114	1.4532	1.5346	-----	1.52	5.82	0.998	0.999	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.3923	1.8243	1.2934	1.3418	1.4056	1.3121	1.3754	1.4473	-----	1.42	5.95	0.997	0.998	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.8479	0.9566	0.7827	0.8095	0.8473	0.8215	0.8656	0.8995	-----	0.854	5.92	0.998	0.999	6.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.8984	2.3544	1.7793	1.8330	1.8509	1.7748	1.8332	1.9209	-----	1.91	6.04	0.998	0.999	9.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.1537	1.3779	1.0843	1.1233	1.1623	1.1002	1.1647	1.2260	1.4657	1.21	6.01	0.997	0.999	11	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.6654	2.1770	1.5380	1.6321	1.6431	1.5342	1.5788	1.6433	-----	1.68	6.14	0.998	0.999	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5540	0.7139	0.5141	0.5197	0.5435	0.5290	0.5484	0.5781	-----	0.563	6.22	0.998	0.999	11	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	0.8948	1.1327	0.8274	0.8809	0.8940	0.8312	0.8606	0.9014	1.0589	0.920	6.14	0.998	0.999	11	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.2144	1.3136	1.0610	1.1741	1.2122	1.1260	1.1936	1.2254	1.5780	1.23	6.13	0.998	0.999	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1580	0.2321	0.1550	0.1491	0.1603	0.1588	0.1636	0.1701	-----	0.168	6.26	0.998	1.00	16		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3402	0.4549	0.3046	0.3313	0.3394	0.3305	0.3459	0.3539	-----	0.350	6.28	0.999	1.00	13	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6411	0.8192	0.5824	0.6148	0.6303	0.6254	0.6435	0.6635	-----	0.653	6.46	0.999	1.00	11	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.1757	0.1837	0.1504	0.1658	0.1829	0.1815	0.1897	0.1984	-----	0.179	6.52	0.997	1.00	8.3	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Avg	0.3267	0.3778	0.2961	0.3104	0.3305	0.3236	0.3343	0.3501	0.4050	0.339	6.55	0.998	1.00	10	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.1906	-----	0.1022	0.1616	0.2250	0.2381	0.2581	0.2671	-----	0.206	6.60	0.996	1.00	29		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.3889	0.4966	0.3596	0.3706	0.3839	0.3798	0.3894	0.4033	-----	0.397	6.62	0.999	1.00	11	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Avg	0.2879	0.3222	0.2565	0.2759	0.2851	0.2812	0.2938	0.3070	0.2973	0.290	6.70	0.998	1.00	6.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.3139	0.3888	0.2987	0.3103	0.3150	0.3135	0.3235	0.3327	-----	0.325	6.77	0.999	1.00	8.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	1.0546	1.3669	1.0253	1.0374	1.0381	1.0210	1.0522	1.0948	1.5765	1.14	6.84	0.999	1.00	17	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.3581	0.4173	0.3370	0.3427	0.3567	0.3270	0.3262	0.4676	0.4567	0.377	6.87	0.948	0.974	15	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1769	0.2343	0.1739	0.1782	0.1782	0.1777	0.1849	0.1902	-----	0.187	6.92	0.999	1.00	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.1000	0.1168	0.0888	0.0992	0.1010	0.1005	0.1067	0.1109	-----	0.103	7.14	0.997	1.00	8.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2748	0.2868	0.2350	0.2635	0.2783	0.2728	0.2868	0.2978	-----	0.275	7.23	0.998	1.00	6.9	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.6859	0.8689	0.6439	0.6703	0.6857	0.6788	0.6905	0.7169	-----	0.705	7.37	0.999	1.00	9.8	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6524	0.7940	0.6165	0.6282	0.6319	0.6348	0.6522	0.6729	-----	0.660	7.45	0.999	1.00	8.6	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Avg	0.6585	0.8314	0.6262	0.6454	0.6575	0.6530	0.6674	0.6910	-----	0.679	7.45	0.999	1.00	9.5		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.8527	1.0387	0.8044	0.8217	0.8377	0.8192	0.8672	0.8966	-----	0.867	7.74	0.998	0.999	8.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.5919	0.7642	0.5523	0.5722	0.5792	0.5729	0.6021	0.6072	-----	0.605	7.50	0.999	1.00	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 9.769

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

3061429 0429

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_9

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	9M122396.D	CAL BNA@50PPM	06/21/23 14:44	2	9M122389.D	CAL BNA@2PPM	06/21/23 12:06
3	9M122388.D	CAL BNA@10PPM	06/21/23 11:44	4	9M122394.D	CAL BNA@20PPM	06/21/23 13:59
5	9M122393.D	CAL BNA@80PPM	06/21/23 13:36	6	9M122392.D	CAL BNA@120PPM	06/21/23 13:14
7	9M122391.D	CAL BNA@160PPM	06/21/23 12:51	8	9M122390.D	CAL BNA@196PPM	06/21/23 12:29
9	9M122395.D	CAL BNA@0.5PPM	06/21/23 14:21				

Compound	Col	Mr	Fit	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Avg	0.3045	0.3305	0.2758	0.2658	0.2983	0.2976	0.3205	0.3333	-----	0.303	7.49	0.996	0.999	8.0	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.3737	0.3998	0.3194	0.3524	0.3656	0.3727	0.3878	0.3954	-----	0.371	7.58	0.999	1.00	7.0	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.3977	0.4164	0.3489	0.3621	0.4023	0.3867	0.4137	0.4201	-----	0.394	7.61	0.998	0.999	6.6	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.4018	1.7766	1.3404	1.3201	1.3616	1.3520	1.4380	1.4795	-----	1.43	7.65	0.998	1.00	10		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.1636	1.4637	1.0899	1.1083	1.1459	1.1006	1.1663	1.1936	-----	1.18	7.77	0.999	0.999	10	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	0.9664	1.2933	0.9487	0.9318	0.9376	0.9213	0.9614	0.9628	-----	0.990	8.05	0.999	1.00	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	0.9664	1.2933	0.9487	0.9318	0.9376	0.9213	0.9614	0.9628	-----	0.990	8.05	0.999	1.00	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8312	1.0399	0.7417	0.7875	0.7891	0.7823	0.8239	0.8412	-----	0.830	7.83	0.998	0.999	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.3891	0.3839	0.3183	0.3628	0.3778	0.3770	0.3933	0.4021	-----	0.376	7.84	0.999	1.00	6.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4585	0.5231	0.4231	0.4288	0.4528	0.4453	0.4677	0.4758	-----	0.459	8.02	0.999	1.00	6.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.7230	2.0453	1.6001	1.6385	1.6498	1.6334	1.7361	1.7622	-----	1.72	8.12	0.999	0.999	8.2	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.2637	1.5362	1.1891	1.2070	1.2059	1.2186	1.2850	1.3249	-----	1.28	7.98	0.998	1.00	8.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.2831	0.2854	0.2595	0.2666	0.2778	0.2733	0.2884	0.2925	-----	0.278	8.04	0.999	1.00	4.1	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.2250	1.5796	1.1326	1.1327	1.1719	1.1729	1.2069	1.2538	-----	1.23	8.28	0.998	1.00	12	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3077	0.3012	0.2601	0.2867	0.2990	0.2884	0.3017	0.2943	-----	0.292	8.19	0.999	0.999	5.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1012	-----	0.0673	0.0714	0.1167	0.1298	0.1492	0.1537	-----	0.113	8.28	0.991	0.999	31	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.6454	2.1240	1.5857	1.5694	1.5994	1.5788	1.6617	1.6948	2.4880	1.77	8.43	0.999	1.00	18	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Avg	0.3655	0.3082	0.2874	0.3207	0.3623	0.3673	0.4028	0.4043	-----	0.352	8.40	0.997	0.999	12	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Avg	0.2288	0.2032	0.2033	0.1710	0.2279	0.2126	0.2399	0.2450	-----	0.217	8.31	0.995	0.998	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3398	0.3375	0.3067	0.3192	0.3347	0.3403	0.3605	0.3655	-----	0.338	8.53	0.998	1.00	5.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.3527	1.6130	1.2992	1.2808	1.3083	1.2957	1.3793	1.3992	-----	1.37	8.75	0.998	0.999	7.9	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.6495	0.7644	0.5968	0.6208	0.6329	0.6323	0.6711	0.6870	-----	0.657	8.74	0.998	1.00	7.9	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.2265	1.5554	1.1826	1.1794	1.1987	1.1997	1.2723	1.2893	-----	1.26	8.62	0.998	1.00	9.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.3418	0.2988	0.2765	0.3169	0.3399	0.3343	0.3556	0.3615	-----	0.328	8.75	0.998	1.00	8.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.3583	0.3987	0.3333	0.3289	0.3590	0.3538	0.3813	0.3837	-----	0.362	9.38	0.998	0.999	6.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.0891	-----	0.0597	0.0655	0.0929	0.1025	0.1108	0.1127	-----	0.0905	8.78	0.996	0.999	23	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6240	0.7398	0.5848	0.6160	0.5950	0.6086	0.6368	0.6352	-----	0.630	8.85	0.999	1.00	7.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Avg	0.0998	0.0952	0.0894	0.0962	0.0984	0.1019	0.1085	0.1097	-----	0.0999	8.98	0.998	1.00	6.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.6950	0.8490	0.6784	0.6658	0.7209	0.6631	0.6953	0.7571	-----	0.716	8.90	0.997	0.998	8.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2155	0.2517	0.2062	0.1957	0.2041	0.2096	0.2233	0.2236	-----	0.216	9.23	0.998	0.999	8.0	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2340	0.2918	0.2306	0.2155	0.2170	0.2250	0.2371	0.2355	-----	0.236	9.30	0.999	0.999	10	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.3971	0.4374	0.3436	0.3589	0.3820	0.3907	0.4081	0.4116	-----	0.391	9.57	0.999	1.00	7.7	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Avg	0.1370	-----	0.1056	0.1137	0.1354	0.1446	0.1511	0.1559	-----	0.135	9.49	0.998	1.00	14	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.0489	1.3363	1.0050	1.0059	1.0099	1.0247	1.0753	1.0536	-----	1.07	9.73	0.999	0.999	10	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.0981	1.3187	1.0046	1.0339	1.0307	1.0548	1.1210	1.0848	-----	1.09	9.79	0.999	0.999	9.0	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	1.0189	1.2319	0.9508	0.9770	0.9641	0.9816	1.0381	1.0296	-----	1.02	9.95	0.999	0.999	8.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Avg	1.2021	1.3851	1.1084	1.1241	1.1498	1.1993	1.2525	1.2602	1.5535	1.25	10.34	0.999	1.00	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.1967	1.3935	1.0843	1.1419	1.1618	1.1885	1.2517	1.2503	-----	1.21	11.06	0.999	1.00	7.7	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.3293	1.6154	1.1918	1.2702	1.2705	1.2992	1.3472	1.3926	-----	1.34	11.32	0.998	1.00	9.4	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Qua	0.5641	0.2727	0.3602	0.4870	0.5312	0.5330	0.5109	0.5312	-----	0.474	11.21	0.999	0.999	22		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.7731	0.9583	0.6859	0.7473	0.7351	0.7628	0.7880	0.8399	-----	0.786	11.51	0.996	0.999	10		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Avg Rsd: 9.769

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note:

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form 6
Initial Calibration

Method: EPA 8270E

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M122396.D	CAL BNA@50PPM	06/21/23 14:44	2	9M122389.D	CAL BNA@2PPM	06/21/23 12:06
3	9M122388.D	CAL BNA@10PPM	06/21/23 11:44	4	9M122394.D	CAL BNA@20PPM	06/21/23 13:59
5	9M122393.D	CAL BNA@80PPM	06/21/23 13:36	6	9M122392.D	CAL BNA@120PPM	06/21/23 13:14
7	9M122391.D	CAL BNA@160PPM	06/21/23 12:51	8	9M122390.D	CAL BNA@196PPM	06/21/23 12:29
9	9M122395.D	CAL BNA@0.5PPM	06/21/23 14:21				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2718	0.3239	0.2389	0.2539	0.2574	0.2687	0.2834	0.2939	-----	0.274	11.45	0.997	1.00	9.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.5179	0.5542	0.4644	0.5009	0.4970	0.5179	0.5281	0.5426	-----	0.515	11.84	0.999	1.00	5.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Avg	0.5696	0.5911	0.4899	0.5377	0.5473	0.5753	0.5968	0.6192	-----	0.566	12.10	0.998	1.00	7.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.3979	0.3593	0.3319	0.3514	0.3868	0.4060	0.4236	0.4311	-----	0.386	12.20	0.998	1.00	9.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Avg	0.3805	0.4086	0.3443	0.3698	0.3832	0.4034	0.4213	0.4052	-----	0.390	12.71	0.999	0.999	6.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.2640	1.5533	1.1394	1.2293	1.1939	1.2466	1.2603	1.3453	-----	1.28	12.74	0.997	0.999	9.8	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.1983	1.4571	1.1158	1.1382	1.1236	1.1516	1.1636	1.1524	-----	1.19	12.78	1.00	1.00	9.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Avg	0.8250	0.8440	0.7093	0.7701	0.7671	0.7853	0.8038	0.8324	-----	0.792	12.80	0.999	0.999	5.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Avg	1.3802	1.2494	1.0828	1.2361	1.3250	1.3861	1.4184	1.4684	-----	1.32	13.54	0.998	1.00	9.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.2205	1.4257	1.1094	1.1798	1.2250	1.2819	1.2883	1.3131	-----	1.26	13.95	0.999	1.00	7.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.2440	1.3778	1.0775	1.1485	1.1335	1.1226	1.1503	1.2154	-----	1.18	13.98	0.997	0.998	8.0	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.0983	1.1536	0.9436	1.0017	1.0477	1.0742	1.1180	1.1435	-----	1.07	14.31	0.999	1.00	6.7	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.4030	1.4329	1.1955	1.2668	1.3187	1.3804	1.4349	1.4952	-----	1.37	15.67	0.997	1.00	7.2	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.1105	1.1451	0.9494	1.0132	1.0477	1.0765	1.1261	1.1601	-----	1.08	15.69	0.998	1.00	6.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	1.1257	1.3224	0.9834	1.0495	1.0738	1.1250	1.1372	1.1797	-----	1.12	16.05	0.999	1.00	8.9	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 9.769
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122396.D Sam Mult : 1 Vial# : 10 Qt On : 06/21/23 15:01
Acq On : 06/21/23 14:44 Misc : A,BNA Qt Upd On: 06/21/23 14:36

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.578	96	28755	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.813	152	53960	40.00	ng	0.00
31) Naphthalene-d8	6.819	136	196166	40.00	ng	0.00
50) Acenaphthene-d10	8.248	164	103536	40.00	ng	0.00
77) Phenanthrene-d10	9.707	188	187463	40.00	ng	0.00
91) Chrysene-d12	12.754	240	176141	40.00	ng	0.00
103) Perylene-d12	14.366	264	180071	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.607	112	82682	48.90	ng	0.00
Spiked Amount 100.000			Recovery = 48.90%			
16) Phenol-d5	5.490	99	98769	45.08	ng	0.00
Spiked Amount 100.000			Recovery = 45.08%			
32) Nitrobenzene-d5	6.260	128	19378	23.42	ng	0.00
Spiked Amount 50.000			Recovery = 46.84%			
55) 2-Fluorobiphenyl	7.654	172	90715	25.64	ng	0.00
Spiked Amount 50.000			Recovery = 51.28%			
80) 2,4,6-Tribromophenol	8.984	330	23391	55.61	ng	0.00
Spiked Amount 100.000			Recovery = 55.61%			
94) Terphenyl-d14	11.507	244	85111	22.73	ng	0.00
Spiked Amount 50.000			Recovery = 45.46%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.613	88	34548	48.7585	ng	82
9) Pyridine	3.066	79	69864	46.1014	ng	80
10) N-Nitrosodimethylamine	3.002	74	56007	48.8335	ng	85
12) Benzaldehyde	5.437	77	71769	45.2764	ng	99
13) Aniline	5.531	93	113994	43.6876	ng	93
14) Pentachloroethane	5.572	117	32835	50.7556	ng	80
15) bis(2-Chloroethyl)ether	5.590	93	85126	47.2638	ng	86
17) Phenol	5.501	94	116558	46.0831	ng	83
18) 2-Chlorophenol	5.631	128	89188	50.0267	ng	80
19) N-Decane	5.678	57	106716	66.8760	ng	73
20) 1,3-Dichlorobenzene	5.766	146	100533	52.1457	ng	98
22) 1,4-Dichlorobenzene	5.825	146	100269	45.5860	ng	98
23) 1,2-Dichlorobenzene	5.949	146	93913	46.4296	ng	97
24) Benzyl alcohol	5.919	108	57196	41.1369	ng	72
25) bis(2-chloroisopropyl)...	6.037	45	128047	69.3108	ng	99
26) 2-Methylphenol	6.007	108	77818	41.2645	ng	100
27) Acetophenone	6.137	105	112331	43.1624	ng	76
28) Hexachloroethane	6.225	117	37367	42.4248	ng	82
29) N-Nitroso-di-n-propyla...	6.137	70	60358	40.0366	ng	89
30) 3&4-Methylphenol	6.131	108	81916	41.1519	ng	96
33) Nitrobenzene	6.278	77	83431	37.9071	ng	76
34) Isophorone	6.460	82	157221	40.0809	ng	86
35) 2-Nitrophenol	6.525	139	43084	42.9154	ng	82
36) 2,4-Dimethylphenol	6.548	107	80110	40.2486	ng	89
37) Benzoic Acid	6.601	105	46757m	45.2310	ng	
38) bis(2-Chloroethoxy)met...	6.625	93	95360	42.8841	ng	98
39) 2,4-Dichlorophenol	6.701	162	70607	44.7344	ng	87
40) 1,2,4-Trichlorobenzene	6.772	180	76982	42.6825	ng	97
41) Naphthalene	6.837	128	258598	45.5046	ng	98
42) 4-Chloroaniline	6.866	127	87828m	45.4868	ng	
43) Hexachlorobutadiene	6.925	225	43387	41.8637	ng	99
44) Caprolactam	7.137	113	24528	43.5819	ng	69
45) 4-Chloro-3-methylphenol	7.231	107	67390	39.0513	ng	96
46) 2-Methylnaphthalene	7.372	142	168196	46.2889	ng	97
47) 1-Methylnaphthalene	7.448	142	159990	47.7058	ng	100
48) Methylnaphthalenes (To...	7.448	142	322961m	92.1059	ng	
49) 1,1'-Biphenyl	7.743	154	209095	46.6962	ng	94
51) 1,2,4,5-Tetrachloroben...	7.501	216	76612	49.9199	ng	99
52) Hexachlorocyclopentadiene	7.490	237	39414	60.6402	ng	98
53) 2,4,6-Trichlorophenol	7.584	196	48367	47.9484	ng	99
54) 2,4,5-Trichlorophenol	7.613	196	51471m	49.1037	ng	
56) 2-Chloronaphthalene	7.766	162	150594	49.0677	ng	91
57) 1,4-Dimethylnaphthalene	8.048	156	125074	49.3158	ng	87
58) Dimethylnaphthalenes (...	8.048	156	125074	49.3158	ng	87
59) Diphenyl Ether	7.831	170	107578	51.2908	ng	73
60) 2-Nitroaniline	7.837	65	50357	43.4678	ng	66
61) Coumarin	8.025	146	59341	50.9967	ng	91
62) Acenaphthylene	8.125	152	222997	52.2137	ng	98
63) Dimethylphthalate	7.984	163	163559	47.6731	ng	98
64) 2,6-Dinitrotoluene	8.042	165	36639	47.3372	ng	62
65) Acenaphthene	8.278	153	158542	51.5178	ng	96

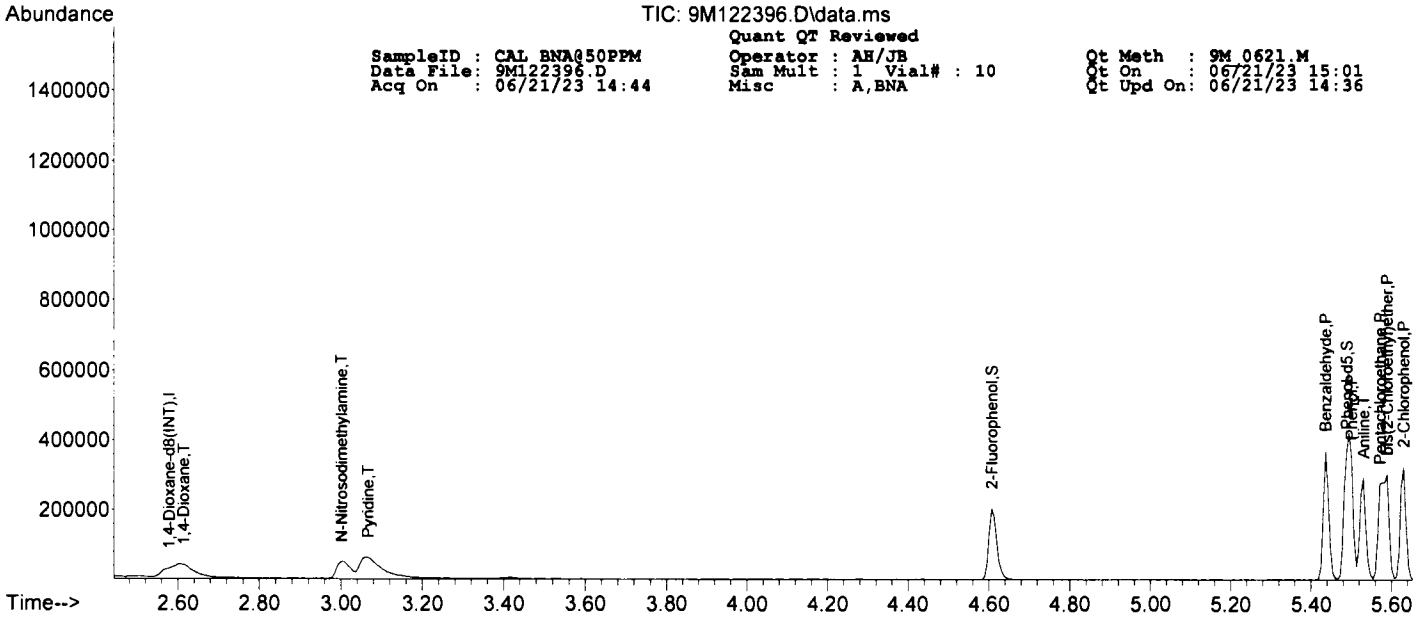
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122396.D Sam Mult : 1 Vial# : 10 Qt On : 06/21/23 15:01
Acq On : 06/21/23 14:44 Misc : A,BNA Qt Upd On: 06/21/23 14:36

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.190	138	39830	48.6664	ng	75
67)	2,4-Dinitrophenol	8.284	184	13102	34.4559	ng	47
68)	Dibenzofuran	8.431	168	212956	48.5986	ng	83
69)	2,4-Dinitrotoluene	8.401	165	47314	45.5017	ng	57
70)	4-Nitrophenol	8.313	65	29615	40.8521	ng	93
71)	2,3,4,6-Tetrachlorophenol	8.531	232	43982	48.7914	ng	81
72)	Fluorene	8.754	166	175073	50.2173	ng	98
73)	4-Chlorophenyl-phenyle...	8.742	204	84062	45.1091	ng	81
74)	Diethylphthalate	8.619	149	158742	48.3014	ng	97
75)	4-Nitroaniline	8.754	138	44243	50.5821	ng	70
76)	Atrazine	9.384	200	46383	45.0961	ng	93
78)	4,6-Dinitro-2-methylph...	8.778	198	20889	35.5828	ng	65
79)	n-Nitrosodiphenylamine	8.854	169	146233	47.9512	ng	97
81)	1,2-Diphenylhydrazine	8.895	77	162876	40.1078	ng	85
82)	4-Bromophenyl-phenylether	9.231	248	50503	49.3258	ng	77
83)	Hexachlorobenzene	9.295	284	54835	54.6954	ng	59
84)	N-Octadecane	9.572	57	93064	62.5807	ng	91
85)	Pentachlorophenol	9.489	266	32116	58.6518	ng	99
86)	Phenanthrene	9.731	178	245792	47.0739	ng	99
87)	Anthracene	9.789	178	257329	48.9856	ng	100
88)	Carbazole	9.954	167	238777	50.8935	ng	94
89)	Di-n-butylphthalate	10.336	149	281699	51.2904	ng	97
90)	Fluoranthene	11.060	202	280430	47.7567	ng	93
92)	Pyrene	11.325	202	292683	43.3525	ng	90
93)	Benzidine	11.213	184	124211	41.8965	ng	88
95)	4,4'-DDE	11.448	246	59849	44.1559	ng	93
96)	4,4'-DDD	11.842	235	114042	43.1734	ng	95
97)	Butylbenzylphthalate	12.101	149	125420	44.5603	ng	71
98)	4,4'-DDT	12.201	235	87627	42.1110	ng	97
99)	3,3'-Dichlorobenzidine	12.713	252	83784	44.4468	ng	97
100)	Benzo[a]anthracene	12.742	228	278316	46.1546	ng	99
101)	Chrysene	12.783	228	263843	46.9906	ng	100
102)	bis(2-Ethylhexyl)phtha...	12.795	149	181665	49.0087	ng	95
104)	Di-n-octylphthalate	13.542	149	310687	42.0214	ng	99
105)	Benzo[b]fluoranthene	13.954	252	274737	43.3684	ng	97
106)	Benzo[k]fluoranthene	13.983	252	280027m	47.4175	ng	
107)	Benzo[a]pyrene	14.307	252	247228	45.5624	ng	91
108)	Indeno[1,2,3-cd]pyrene	15.671	276	315803	56.2319	ng	82
109)	Dibenzo[a,h]anthracene	15.695	278	249963	57.4826	ng	91
110)	Benzo[g,h,i]perylene	16.048	276	253402	55.1412	ng	76

(#) = qualifier out of range (m) = manual integration (+) = signals summed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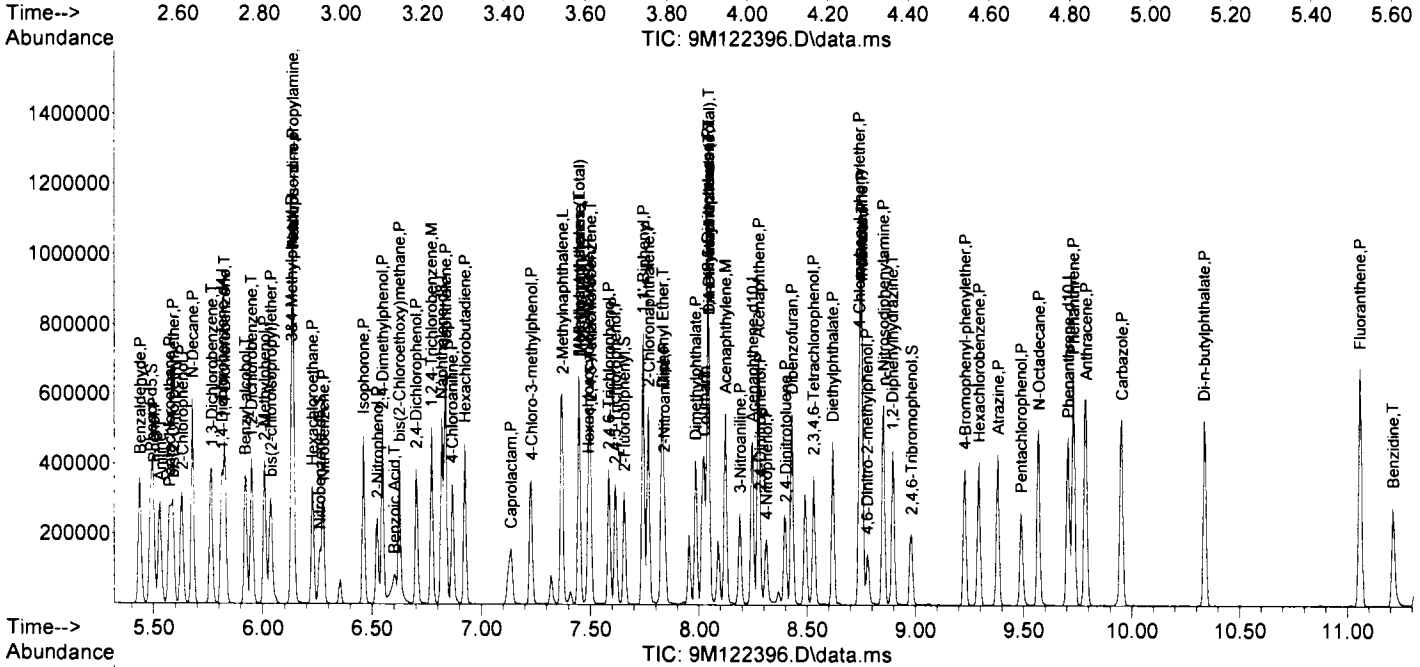
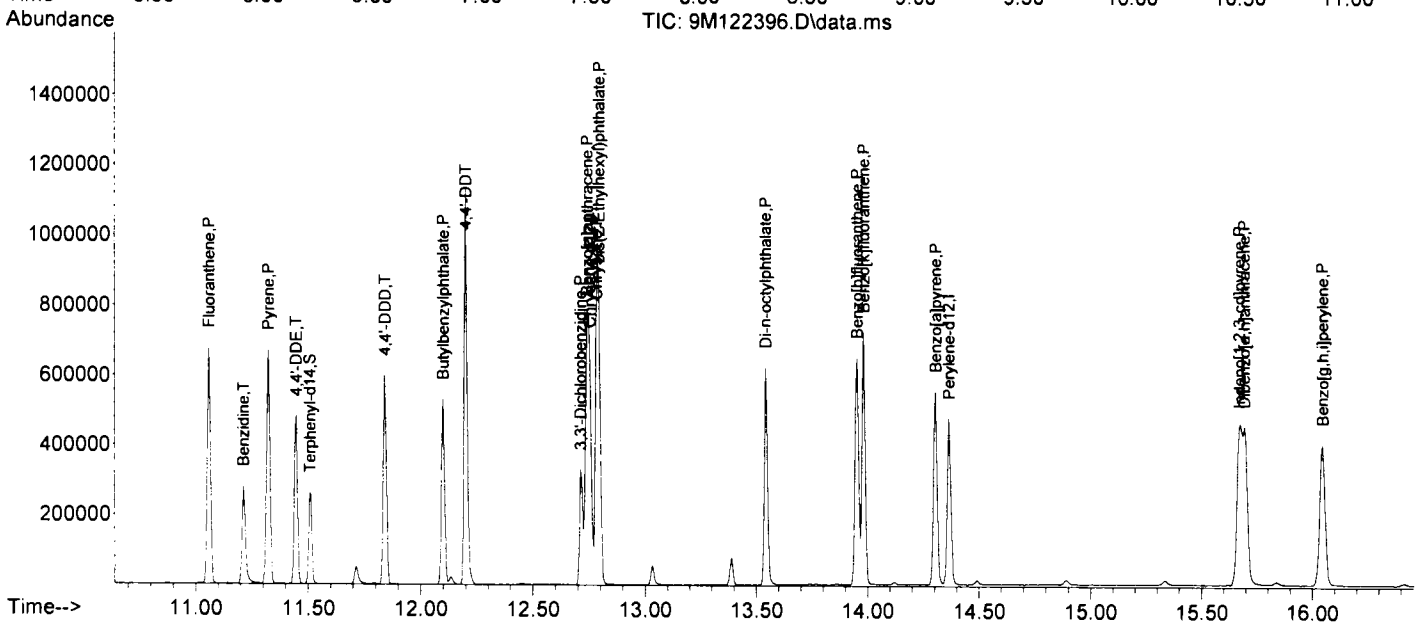
TIC: 9M122396.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@50PPM
Data File: 9M122396.D
Acq On : 06/21/23 14:44
Operator : AH/JB
Sam Mult : 1 Vial# : 10
Misc : A,BNA
Qt Meth : 9M_0621.M
Qt On : 06/21/23 15:01
Qt Upd On: 06/21/23 14:36
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Aniline,T
2-Chlorophenol,P
Time-->


Abundance
TIC: 9M122396.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Methylnaphthalene,L
Acenaphthylene,M
Diethylphthalate,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Time-->


Abundance
TIC: 9M122396.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@2PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122389.D Sam Mult : 1 Vial# : 3 Qt On : 06/21/23 12:27
Acq On : 06/21/23 12:06 Misc : A,BNA Qt Upd On: 06/20/23 18:32

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.578	96	24343	40.00	ng	-0.04
21) 1,4-Dichlorobenzene-d4	5.813	152	47229	40.00	ng	-0.02
31) Naphthalene-d8	6.819	136	171985	40.00	ng	-0.02
50) Acenaphthene-d10	8.242	164	94085	40.00	ng	-0.03
77) Phenanthrene-d10	9.707	188	169314	40.00	ng	-0.03
91) Chrysene-d12	12.754	240	157359	40.00	ng	-0.04
103) Perylene-d12	14.366	264	162075	40.00	ng	-0.05
System Monitoring Compounds						
11) 2-Fluorophenol	4.607	112	3405m	2.38	ng	-0.03
Spiked Amount 100.000			Recovery = 2.38%			
16) Phenol-d5	5.484	99	4204	2.27	ng	-0.04
Spiked Amount 100.000			Recovery = 2.27%			
32) Nitrobenzene-d5	6.260	128	998	1.38	ng	-0.02
Spiked Amount 50.000			Recovery = 2.76%			
55) 2-Fluorobiphenyl	7.654	172	4179	1.30	ng	-0.03
Spiked Amount 50.000			Recovery = 2.60%			
80) 2,4,6-Tribromophenol	8.978	330	806	2.12	ng	-0.04
Spiked Amount 100.000			Recovery = 2.12%			
94) Terphenyl-d14	11.507	244	3770	1.13	ng	-0.03
Spiked Amount 50.000			Recovery = 2.26%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.608	88	1733	2.8891	ng	94
9) Pyridine	3.090	79	2576	2.0079	ng	79
10) N-Nitrosodimethylamine	3.019	74	2134	2.1979	ng	68
12) Benzaldehyde	5.437	77	3541m	2.6388	ng	
13) Aniline	5.531	93	4769	2.1590	ng	86
14) Pentachloroethane	5.572	117	1401	2.5581	ng	90
15) bis(2-Chloroethyl)ether	5.590	93	3552m	2.3296	ng	
17) Phenol	5.496	94	4821	2.2515	ng	90
18) 2-Chlorophenol	5.625	128	4080	2.7033	ng	77
19) N-Decane	5.678	57	4646	3.4392	ng	75
20) 1,3-Dichlorobenzene	5.760	146	4323	2.6487	ng	96
22) 1,4-Dichlorobenzene	5.825	146	4628	2.4039	ng	97
23) 1,2-Dichlorobenzene	5.948	146	4308	2.4334	ng	95
24) Benzyl alcohol	5.919	108	2259	1.8563	ng	85
25) bis(2-chloroisopropyl)...	6.037	45	5560	3.4385	ng	95
26) 2-Methylphenol	6.007	108	3254	1.9714	ng	90
27) Acetophenone	6.137	105	5141	2.2569	ng	66
28) Hexachloroethane	6.225	117	1686	2.1870	ng	82
29) N-Nitroso-di-n-propyla...	6.137	70	2675	2.0273	ng	98
30) 3&4-Methylphenol	6.131	108	3102	1.7804	ng	92
33) Nitrobenzene	6.272	77	3912	2.0273	ng	81
34) Isophorone	6.460	82	7045	2.0485	ng	82
35) 2-Nitrophenol	6.519	139	1580	1.7951	ng	77
36) 2,4-Dimethylphenol	6.548	107	3249	1.8619	ng	85
37) Benzoic Acid	0.000		0	N.D.		
38) bis(2-Chloroethoxy)met...	6.625	93	4271	2.1908	ng	95
39) 2,4-Dichlorophenol	6.701	162	2771	2.0025	ng	82
40) 1,2,4-Trichlorobenzene	6.772	180	3344	2.1148	ng	95
41) Naphthalene	6.837	128	11755	2.3593	ng	98
42) 4-Chloroaniline	6.866	127	3589m	2.1201	ng	
43) Hexachlorobutadiene	6.925	225	2015	2.2176	ng	96
44) Caprolactam	7.107	113	1005	2.0368	ng	70
45) 4-Chloro-3-methylphenol	7.225	107	2467	1.6306	ng	86
46) 2-Methylnaphthalene	7.366	142	7472	2.3455	ng	100
47) 1-Methylnaphthalene	7.448	142	6828	2.3222	ng	88
48) Methylnaphthalenes (To...	7.366	142	14300m	4.6516	ng	
49) 1,1'-Biphenyl	7.742	154	8932	2.2752	ng	94
51) 1,2,4,5-Tetrachloroben...	7.495	216	3595	2.5778	ng	92
52) Hexachlorocyclopentadiene	7.490	237	1555	2.7647	ng	98
53) 2,4,6-Trichlorophenol	7.584	196	1881m	2.0520	ng	
54) 2,4,5-Trichlorophenol	7.613	196	1959m	2.0566	ng	
56) 2-Chloronaphthalene	7.766	162	6886	2.4690	ng	91
57) 1,4-Dimethylnaphthalene	8.042	156	6084	2.6399	ng	88
58) Dimethylnaphthalenes (...	8.042	156	6084	2.6399	ng	88
59) Diphenyl Ether	7.825	170	4892	2.5667	ng	75
60) 2-Nitroaniline	7.837	65	1806	1.7155	ng	62
61) Coumarin	8.019	146	2461	2.3274	ng	91
62) Acenaphthylene	8.119	152	9622	2.4793	ng	95
63) Dimethylphthalate	7.984	163	7227	2.3181	ng	98
64) 2,6-Dinitrotoluene	8.037	165	1343	1.9094	ng	62
65) Acenaphthene	8.272	153	7431	2.6572	ng	93

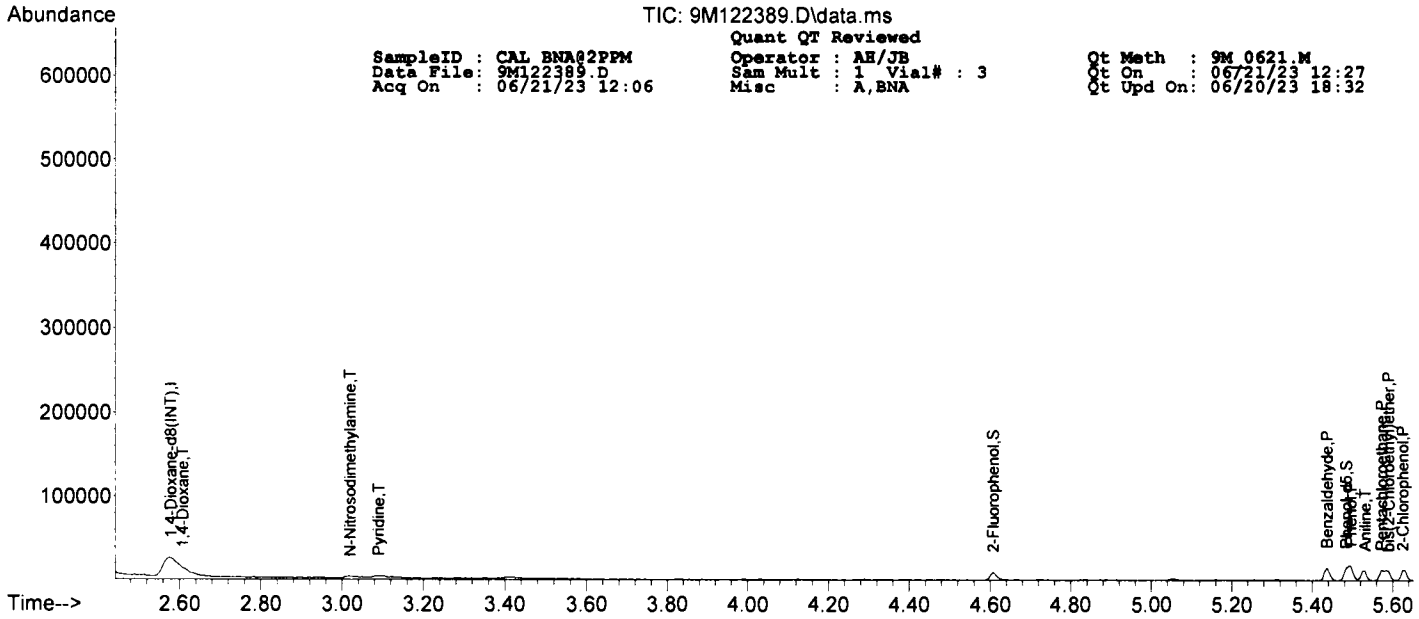
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@2PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122389.D Sam Mult : 1 Vial# : 3 Qt On : 06/21/23 12:27
Acq On : 06/21/23 12:06 Misc : A,BNA Qt Upd On: 06/20/23 18:32

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.184	138	1417	1.9053	ng	75
67)	2,4-Dinitrophenol	0.000		0	N.D.		
68)	Dibenzofuran	8.425	168	9992	2.5093	ng	81
69)	2,4-Dinitrotoluene	8.395	165	1450	1.5345	ng	65
70)	4-Nitrophenol	8.307	65	956	1.4512	ng	91
71)	2,3,4,6-Tetrachlorophenol	8.531	232	1588	1.9386	ng	76
72)	Fluorene	8.748	166	7588	2.3951	ng	95
73)	4-Chlorophenyl-phenyle...	8.742	204	3596	2.1235	ng	84
74)	Diethylphthalate	8.613	149	7317	2.4500	ng	99
75)	4-Nitroaniline	8.748	138	1406	1.7689	ng	67
76)	Atrazine	9.378	200	1876	2.0072	ng	95
78)	4,6-Dinitro-2-methylph...	0.000		0	N.D.		
79)	n-Nitrosodiphenylamine	8.848	169	6263	2.2738	ng	91
81)	1,2-Diphenylhydrazine	8.895	77	7188	1.9598	ng	81
82)	4-Bromophenyl-phenylether	9.231	248	2131	2.3044	ng	73
83)	Hexachlorobenzene	9.295	284	2471	2.7289	ng	61
84)	N-Octadecane	9.566	57	3703	2.7570	ng	90
85)	Pentachlorophenol	0.000		0	N.D. d		
86)	Phenanthrene	9.731	178	11313	2.3989	ng	97
87)	Anthracene	9.784	178	11164	2.3530	ng	96
88)	Carbazole	9.948	167	10429	2.4611	ng	98
89)	Di-n-butylphthalate	10.336	149	11726	2.3639	ng	95
90)	Fluoranthene	11.060	202	11797	2.2244	ng	92
92)	Pyrene	11.325	202	12710	2.1073	ng	91
93)	Benzidine	11.213	184	2146	0.8102	ng	97
95)	4,4'-DDE	11.442	246	2549	2.1051	ng	94
96)	4,4'-DDD	11.842	235	4361	1.8480	ng	95
97)	Butylbenzylphthalate	12.101	149	4651	1.8497	ng	64
98)	4,4'-DDT	12.201	235	2827	1.5207	ng	98
99)	3,3'-Dichlorobenzidine	12.713	252	3215	1.9091	ng	87
100)	Benzo[a]anthracene	12.742	228	12222	2.2688	ng	98
101)	Chrysene	12.783	228	11465	2.2856	ng	95
102)	bis(2-Ethylhexyl)phtha...	12.795	149	6641	2.0054	ng	97
104)	Di-n-octylphthalate	13.542	149	10125	1.5215	ng	98
105)	Benzo[b]fluoranthene	13.948	252	11554m	2.0264	ng	
106)	Benzo[k]fluoranthene	13.977	252	11166m	2.1007	ng	
107)	Benzo[a]pyrene	14.301	252	9349	1.9143	ng	96
108)	Indeno[1,2,3-cd]pyrene	15.666	276	11612	2.2972	ng	83
109)	Dibenzo[a,h]anthracene	15.689	278	9280	2.3710	ng	86
110)	Benzo[g,h,i]perylene	16.036	276	10717	2.5910	ng	73

(#) = qualifier out of range (m) = manual integration (+) = signals summed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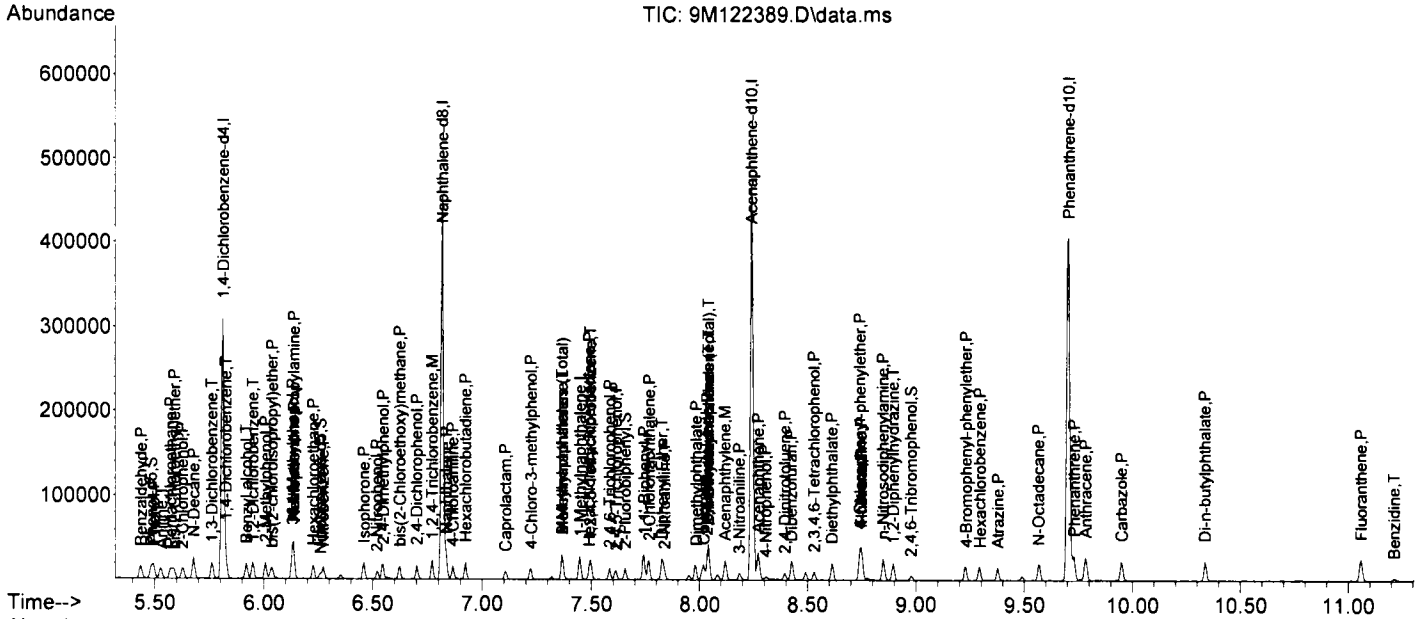
Quant QT Reviewed
SampleID : CAL BNA@2PPM
Data File: 9M122389.D
Acq On : 06/21/23 12:06
Operator : AH/JB
Sam Mult : 1 Vial# : 3
Misc : A,BNA
Qt Meth : 9M_0621.M
Qt On : 06/21/23 12:27
Qt Upd On: 06/20/23 18:32
600000
500000
400000
300000
200000
100000
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Phenol-d5,S
Aniline,T
2-Chlorophenol,P
Time-->
2.60
2.80
3.00
3.20
3.40
3.60
3.80
4.00
4.20
4.40
4.60
4.80
5.00
5.20
5.40
5.60


Abundance
TIC: 9M122389.D\data.ms
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400000
300000
200000
100000
1,4-Dichlorobenzene-d4,I
Nephthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
1,4-Dichlorobenzene,T
Caprolactam,P
4-Chloro-3-methylphenol,P
Acenaphthylene,M
Acenaphthylene,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Time-->
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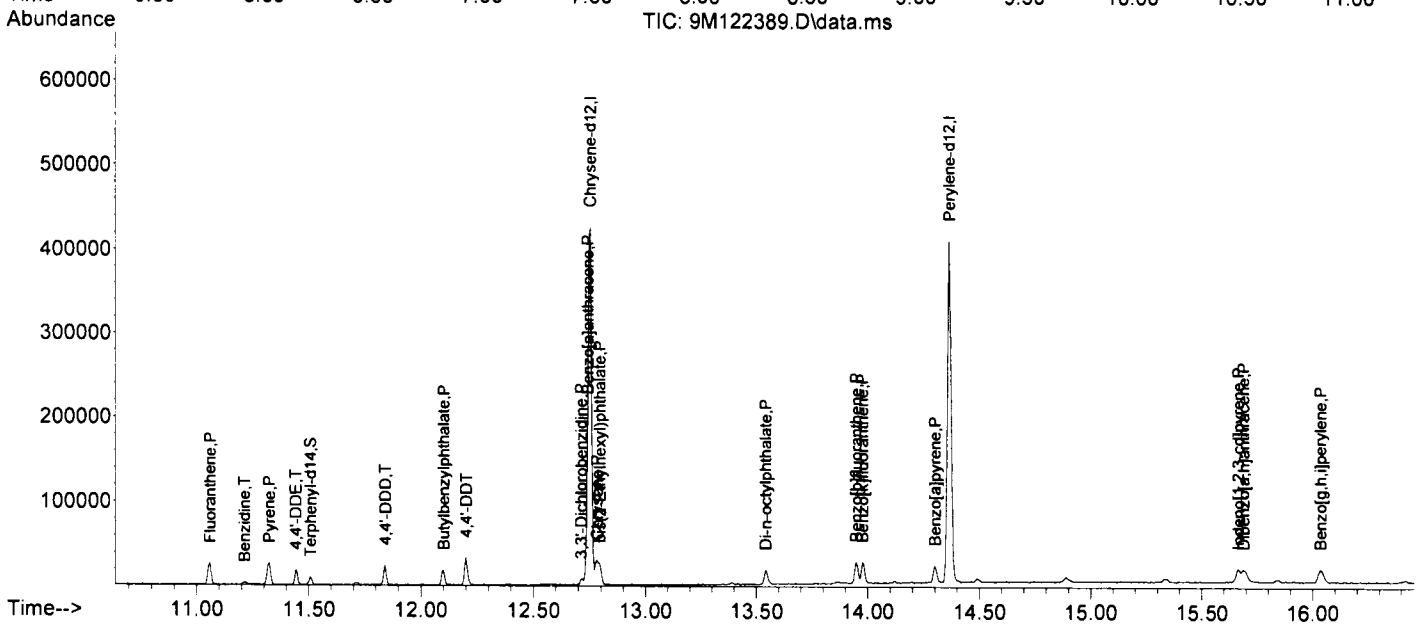
6.00
6.50
7.00
7.50
8.00
8.50
9.00
9.50
10.00
10.50
11.00


Abundance
TIC: 9M122389.D\data.ms
600000
500000
400000
300000
200000
100000
Chrysene-d12,I
Perylene-d12,I
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo(a)pyrene,P
Benzo[g,h,i]perylene,P
Time-->
11.00
11.50
12.00
12.50
13.00
13.50
14.00
14.50
15.00
15.50
16.00

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@10PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122388.D Sam Mult : 1 Vial# : 2 Qt On : 06/21/23 12:11
Acq On : 06/21/23 11:44 Misc : A,BNA Qt Upd On: 06/20/23 18:32

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.578	96	22077	40.00	ng	-0.04
21) 1,4-Dichlorobenzene-d4	5.813	152	43453	40.00	ng	-0.02
31) Naphthalene-d8	6.819	136	157783	40.00	ng	-0.02
50) Acenaphthene-d10	8.242	164	84566	40.00	ng	-0.03
77) Phenanthrene-d10	9.707	188	150661	40.00	ng	-0.03
91) Chrysene-d12	12.754	240	142900	40.00	ng	-0.04
103) Perylene-d12	14.366	264	146108	40.00	ng	-0.05
System Monitoring Compounds						
11) 2-Fluorophenol	4.607	112	12043	9.28	ng	-0.03
Spiked Amount 100.000			Recovery = 9.28%			
16) Phenol-d5	5.484	99	14150	8.41	ng	-0.04
Spiked Amount 100.000			Recovery = 8.41%			
32) Nitrobenzene-d5	6.260	128	3058	4.60	ng	-0.02
Spiked Amount 50.000			Recovery = 9.20%			
55) 2-Fluorobiphenyl	7.654	172	14170	4.90	ng	-0.03
Spiked Amount 50.000			Recovery = 9.80%			
80) 2,4,6-Tribromophenol	8.978	330	3368	9.96	ng	-0.04
Spiked Amount 100.000			Recovery = 9.96%			
94) Terphenyl-d14	11.507	244	12252	4.03	ng	-0.03
Spiked Amount 50.000			Recovery = 8.06%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.619	88	5509	10.1268	ng	94
9) Pyridine	3.078	79	8889	7.6399	ng	85
10) N-Nitrosodimethylamine	3.007	74	7618	8.6515	ng	77
12) Benzaldehyde	5.437	77	11405	9.3714	ng	99
13) Aniline	5.531	93	15817	7.8954	ng	93
14) Pentachloroethane	5.572	117	4897	9.8594	ng	78
15) bis(2-Chloroethyl)ether	5.590	93	12241m	8.8523	ng	
17) Phenol	5.495	94	17253	8.8846	ng	87
18) 2-Chlorophenol	5.625	128	12926	9.4435	ng	82
19) N-Decane	5.678	57	15419	12.5855	ng	71
20) 1,3-Dichlorobenzene	5.760	146	15124	10.2176	ng	96
22) 1,4-Dichlorobenzene	5.825	146	15617	8.8169	ng	96
23) 1,2-Dichlorobenzene	5.948	146	14051	8.6264	ng	96
24) Benzyl alcohol	5.919	108	8503	7.5943	ng	70
25) bis(2-chloroisopropyl)...	6.037	45	19330	12.9932	ng	98
26) 2-Methylphenol	6.007	108	11779	7.7563	ng	97
27) Acetophenone	6.137	105	16708	7.9723	ng	68
28) Hexachloroethane	6.225	117	5585	7.8742	ng	78
29) N-Nitroso-di-n-propyla...	6.137	70	8989	7.4043	ng	88
30) 3&4-Methylphenol	6.131	108	11526	7.1904	ng	98
33) Nitrobenzene	6.272	77	12015	6.7870	ng	78
34) Isophorone	6.460	82	22976	7.2822	ng	81
35) 2-Nitrophenol	6.525	139	5934	7.3487	ng	81
36) 2,4-Dimethylphenol	6.548	107	11681	7.2964	ng	90
37) Benzoic Acid	6.572	105	4032	5.5254	ng	83
38) bis(2-Chloroethoxy)met...	6.625	93	14187	7.9320	ng	97
39) 2,4-Dichlorophenol	6.701	162	10121	7.9722	ng	82
40) 1,2,4-Trichlorobenzene	6.772	180	11784	8.1230	ng	94
41) Naphthalene	6.837	128	40444	8.8481	ng	98
42) 4-Chloroaniline	6.866	127	13296m	8.5612	ng	
43) Hexachlorobutadiene	6.925	225	6860	8.2294	ng	98
44) Caprolactam	7.113	113	3504	7.7406	ng	67
45) 4-Chloro-3-methylphenol	7.225	107	9272	6.6800	ng	90
46) 2-Methylnaphthalene	7.366	142	25401	8.6911	ng	98
47) 1-Methylnaphthalene	7.448	142	24320	9.0158	ng	93
48) Methylnaphthalenes (To...	7.366	142	49402m	17.5164	ng	
49) 1,1'-Biphenyl	7.742	154	31730	8.8099	ng	95
51) 1,2,4,5-Tetrachloroben...	7.501	216	11678	9.3162	ng	95
52) Hexachlorocyclopentadiene	7.489	237	5832	11.4500	ng	96
53) 2,4,6-Trichlorophenol	7.584	196	6754m	8.1975	ng	
54) 2,4,5-Trichlorophenol	7.613	196	7377m	8.6164	ng	
56) 2-Chloronaphthalene	7.766	162	23044	9.1927	ng	92
57) 1,4-Dimethylnaphthalene	8.042	156	20058	9.6828	ng	88
58) Dimethylnaphthalenes (...	8.042	156	20058	9.6828	ng	88
59) Diphenyl Ether	7.825	170	15681	9.1535	ng	79
60) 2-Nitroaniline	7.837	65	6730	7.1124	ng	47
61) Coumarin	8.019	146	8945	9.4116	ng	91
62) Acenaphthylene	8.119	152	33830	9.6980	ng	97
63) Dimethylphthalate	7.984	163	25141	8.9718	ng	98
64) 2,6-Dinitrotoluene	8.037	165	5488	8.6810	ng	66
65) Acenaphthene	8.272	153	23945	9.5263	ng	98

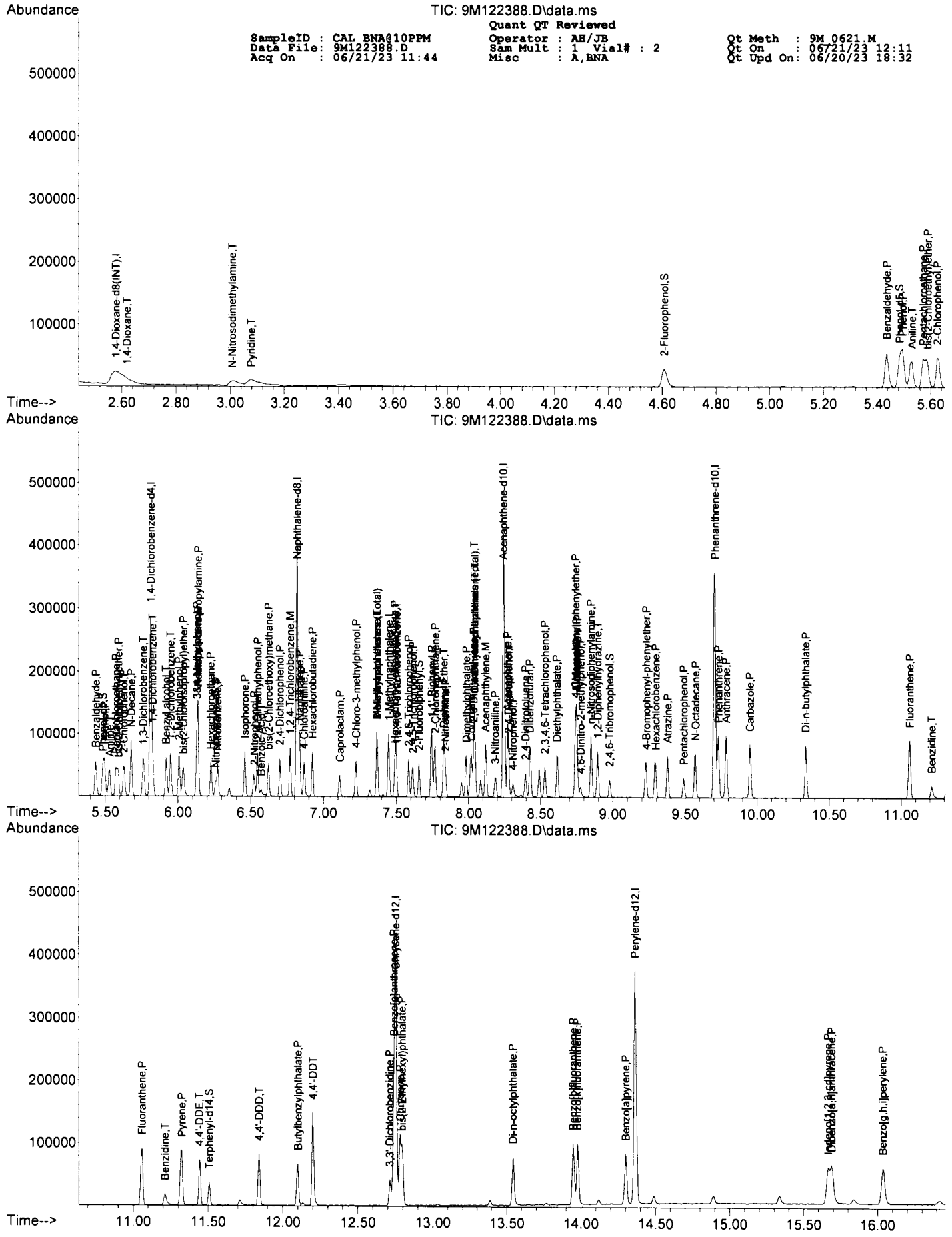
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@10PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122388.D Sam Mult : 1 Vial# : 2 Qt On : 06/21/23 12:11
Acq On : 06/21/23 11:44 Misc : A,BNA Qt Upd On: 06/20/23 18:32

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.184	138	5500	8.2277	ng	79
67)	2,4-Dinitrophenol	8.278	184	1424	4.8562	ng	83
68)	Dibenzofuran	8.425	168	33525	9.3670	ng	87
69)	2,4-Dinitrotoluene	8.395	165	6076	7.1540	ng	66
70)	4-Nitrophenol	8.307	65	4299	7.2605	ng	93
71)	2,3,4,6-Tetrachlorophenol	8.531	232	6484	8.8066	ng	80
72)	Fluorene	8.748	166	27468	9.6462	ng	96
73)	4-Chlorophenyl-phenyle...	8.742	204	12618	8.2899	ng	83
74)	Diethylphthalate	8.613	149	25003	9.3144	ng	97
75)	4-Nitroaniline	8.748	138	5847	8.1843	ng	73
76)	Atrazine	9.378	200	7047	8.3884	ng	88
78)	4,6-Dinitro-2-methylph...	8.778	198	2250	4.7689	ng	54
79)	n-Nitrosodiphenylamine	8.848	169	22028	8.9876	ng	97
81)	1,2-Diphenylhydrazine	8.895	77	25552	7.8291	ng	80
82)	4-Bromophenyl-phenylether	9.231	248	7770	9.4426	ng	78
83)	Hexachlorobenzene	9.295	284	8689	10.7839	ng	58
84)	N-Octadecane	9.572	57	12942	10.8287	ng	89
85)	Pentachlorophenol	9.489	266	3980	9.0439	ng	94
86)	Phenanthrene	9.731	178	37856	9.0212	ng	99
87)	Anthracene	9.783	178	37841	8.9631	ng	99
88)	Carbazole	9.948	167	35813	9.4979	ng	95
89)	Di-n-butylphthalate	10.336	149	41750	9.4585	ng	97
90)	Fluoranthene	11.060	202	40844	8.6547	ng	93
92)	Pyrene	11.325	202	42579	7.7739	ng	86
93)	Benzidine	11.213	184	12871	5.3513	ng	89
95)	4,4'-DDE	11.442	246	8535	7.7618	ng	95
96)	4,4'-DDD	11.842	235	16592	7.7424	ng	97
97)	Butylbenzylphthalate	12.101	149	17502	7.6647	ng	71
98)	4,4'-DDT	12.201	235	11858	7.0242	ng	97
99)	3,3'-Dichlorobenzidine	12.713	252	12301	8.0436	ng	96
100)	Benzo[a]anthracene	12.742	228	40705	8.3206	ng	97
101)	Chrysene	12.783	228	39863	8.7511	ng	98
102)	bis(2-Ethylhexyl)phtha...	12.795	149	25342	8.4270	ng	97
104)	Di-n-octylphthalate	13.542	149	39553	6.5932	ng	98
105)	Benzo[b]fluoranthene	13.948	252	40523m	7.8837	ng	
106)	Benzo[k]fluoranthene	13.977	252	39359m	8.2140	ng	
107)	Benzo[a]pyrene	14.301	252	34470	7.8293	ng	94
108)	Indeno[1,2,3-cd]pyrene	15.665	276	43670	9.5834	ng	78
109)	Dibenzo[a,h]anthracene	15.689	278	34679	9.8287	ng	91
110)	Benzo[g,h,i]perylene	16.036	276	35924	9.6343	ng	77

(#) = qualifier out of range (m) = manual integration (+) = signals summed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Quant QT Reviewed
SampleID : CAL BNA@10PPM
Data File: 9M122388.D
Acq On : 06/21/23 11:44
Operator : AE/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 9M_0621.M
Qt On : 06/21/23 12:11
Qt Upd On: 06/20/23 18:32
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Aniline,T
2-Chlorophenol,P
Time-->
Abundance
TIC: 9M122388.D\data.ms
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
2,4-Dichlorophenol,P
1,2,4-Trichlorobenzene,M
Hexachlorobutadiene,P
Acenaphthylene,M
3-Nitroaniline,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Time-->
Abundance
TIC: 9M122388.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Perylene-d12,I
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@20PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122394.D Sam Mult : 1 Vial# : 8 Qt On : 06/21/23 14:36
Acq On : 06/21/23 13:59 Misc : A,BNA Qt Upd On: 06/21/23 14:36

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.572	96	27623	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.813	152	52672	40.00	ng	0.00
31) Naphthalene-d8	6.819	136	192098	40.00	ng	0.00
50) Acenaphthene-d10	8.242	164	105150	40.00	ng	0.00
77) Phenanthrene-d10	9.707	188	188928	40.00	ng	0.00
91) Chrysene-d12	12.754	240	172575	40.00	ng	0.00
103) Perylene-d12	14.366	264	177486	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.607	112	30649	18.87	ng	0.00
Spiked Amount 100.000			Recovery = 18.87%			
16) Phenol-d5	5.484	99	36340	17.26	ng	0.00
Spiked Amount 100.000			Recovery = 17.26%			
32) Nitrobenzene-d5	6.260	128	7162	8.84	ng	0.00
Spiked Amount 50.000			Recovery = 17.68%			
55) 2-Fluorobiphenyl	7.654	172	34702	9.66	ng	0.00
Spiked Amount 50.000			Recovery = 19.32%			
80) 2,4,6-Tribromophenol	8.984	330	9095	21.46	ng	0.00
Spiked Amount 100.000			Recovery = 21.46%			
94) Terphenyl-d14	11.507	244	32245	8.79	ng	0.00
Spiked Amount 50.000			Recovery = 17.58%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.608	88	13195	19.3856	ng	90
9) Pyridine	3.072	79	25591	17.5788	ng	79
10) N-Nitrosodimethylamine	3.008	74	19964	18.1203	ng	76
12) Benzaldehyde	5.437	77	26608	17.4739	ng	98
13) Aniline	5.531	93	41315	16.4826	ng	94
14) Pentachloroethane	5.572	117	11969	19.2596	ng	76
15) bis(2-Chloroethyl)ether	5.590	93	31927	18.4530	ng	90
17) Phenol	5.496	94	43275	17.8106	ng	86
18) 2-Chlorophenol	5.631	128	33980	19.8409	ng	79
19) N-Decane	5.678	57	39894	26.0250	ng	72
20) 1,3-Dichlorobenzene	5.766	146	37448	20.2200	ng	97
22) 1,4-Dichlorobenzene	5.825	146	37616	17.5198	ng	97
23) 1,2-Dichlorobenzene	5.949	146	35338	17.8980	ng	98
24) Benzyl alcohol	5.919	108	21320	15.7089	ng	72
25) bis(2-chloroisopropyl)...	6.037	45	48274	26.7693	ng	98
26) 2-Methylphenol	6.007	108	29585	16.0716	ng	98
27) Acetophenone	6.137	105	42985	16.9206	ng	69
28) Hexachloroethane	6.225	117	13688	15.9208	ng	89
29) N-Nitroso-di-n-propyla...	6.137	70	23200	15.7653	ng	91
30) 3&4-Methylphenol	6.131	108	30922	15.9141	ng	96
33) Nitrobenzene	6.272	77	31827	14.7669	ng	79
34) Isophorone	6.460	82	59054	15.3737	ng	82
35) 2-Nitrophenol	6.519	139	15934	16.2078	ng	90
36) 2,4-Dimethylphenol	6.548	107	29814	15.2963	ng	83
37) Benzoic Acid	6.584	105	15525m	16.8087	ng	
38) bis(2-Chloroethoxy)met...	6.625	93	35602	16.3495	ng	94
39) 2,4-Dichlorophenol	6.701	162	26503	17.1471	ng	85
40) 1,2,4-Trichlorobenzene	6.772	180	29809	16.8776	ng	97
41) Naphthalene	6.837	128	99641	17.9048	ng	98
42) 4-Chloroaniline	6.866	127	32919m	17.4100	ng	
43) Hexachlorobutadiene	6.925	225	17122	16.8707	ng	95
44) Caprolactam	7.119	113	9534	17.2990	ng	68
45) 4-Chloro-3-methylphenol	7.225	107	25309	14.9767	ng	97
46) 2-Methylnaphthalene	7.366	142	64390	18.0959	ng	97
47) 1-Methylnaphthalene	7.448	142	60342	18.3738	ng	98
48) Methylnaphthalenes (To...	7.366	142	123986m	36.1086	ng	
49) 1,1'-Biphenyl	7.743	154	78926	17.9994	ng	93
51) 1,2,4,5-Tetrachloroben...	7.501	216	30087	19.3036	ng	95
52) Hexachlorocyclopentadiene	7.490	237	13976	21.8719	ng	99
53) 2,4,6-Trichlorophenol	7.584	196	18530m	18.0877	ng	
54) 2,4,5-Trichlorophenol	7.613	196	19038	17.8836	ng	97
56) 2-Chloronaphthalene	7.766	162	58269	18.6942	ng	89
57) 1,4-Dimethylnaphthalene	8.043	156	48993	19.0211	ng	88
58) Dimethylnaphthalenes (...	8.043	156	48993	19.0211	ng	88
59) Diphenyl Ether	7.825	170	41403	19.4370	ng	77
60) 2-Nitroaniline	7.837	65	19077	16.2144	ng	56
61) Coumarin	8.019	146	22549	19.0808	ng	93
62) Acenaphthylene	8.119	152	86147	19.8613	ng	97
63) Dimethylphthalate	7.984	163	63462	18.2136	ng	98
64) 2,6-Dinitrotoluene	8.037	165	14020	17.8357	ng	64
65) Acenaphthene	8.272	153	59552	19.0542	ng	96

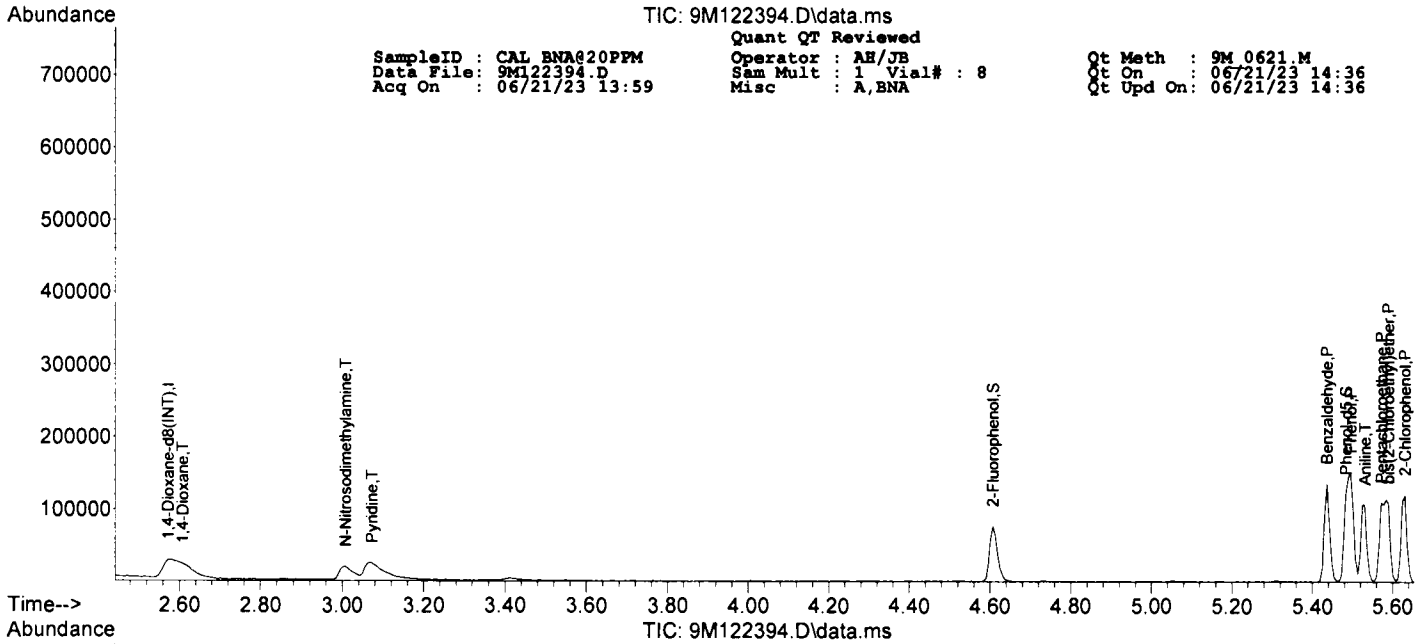
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@20PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122394.D Sam Mult : 1 Vial# : 8 Qt On : 06/21/23 14:36
Acq On : 06/21/23 13:59 Misc : A,BNA Qt Upd On: 06/21/23 14:36

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.190	138	15074	18.1355	ng	65
67)	2,4-Dinitrophenol	8.278	184	3758	10.1981	ng	88
68)	Dibenzofuran	8.431	168	82511	18.5408	ng	80
69)	2,4-Dinitrotoluene	8.395	165	16863	15.9682	ng	69
70)	4-Nitrophenol	8.307	65	8995	12.2176	ng	87
71)	2,3,4,6-Tetrachlorophenol	8.531	232	16783	18.3324	ng	81
72)	Fluorene	8.748	166	67340	19.0191	ng	100
73)	4-Chlorophenyl-phenyle...	8.742	204	32640	17.2463	ng	79
74)	Diethylphthalate	8.619	149	62010	18.5785	ng	96
75)	4-Nitroaniline	8.748	138	16662	18.7569	ng	68
76)	Atrazine	9.378	200	17292	16.5542	ng	95
78)	4,6-Dinitro-2-methylph...	8.778	198	6189	10.4607	ng	67
79)	n-Nitrosodiphenylamine	8.848	169	58195	18.9347	ng	99
81)	1,2-Diphenylhydrazine	8.895	77	62897	15.3681	ng	84
82)	4-Bromophenyl-phenylether	9.231	248	18487	17.9161	ng	80
83)	Hexachlorobenzene	9.295	284	20361	20.1517	ng	60
84)	N-Octadecane	9.572	57	33906	22.6232	ng	87
85)	Pentachlorophenol	9.489	266	10743	19.4673	ng	95
86)	Phenanthrene	9.731	178	95023	18.0576	ng	99
87)	Anthracene	9.784	178	97667	18.4479	ng	99
88)	Carbazole	9.948	167	92296	19.5197	ng	95
89)	Di-n-butylphthalate	10.336	149	106188	19.1843	ng	97
90)	Fluoranthene	11.060	202	107875	18.2285	ng	88
92)	Pyrene	11.325	202	109602	16.5698	ng	87
93)	Benzidine	11.213	184	42028	14.4690	ng	89
95)	4,4'-DDE	11.448	246	21908	16.4974	ng	92
96)	4,4'-DDD	11.842	235	43222	16.7009	ng	95
97)	Butylbenzylphthalate	12.101	149	46401	16.8264	ng	70
98)	4,4'-DDT	12.201	235	30328	14.8759	ng	97
99)	3,3'-Dichlorobenzidine	12.713	252	31910	17.2778	ng	97
100)	Benzo[a]anthracene	12.742	228	106081	17.9555	ng	99
101)	Chrysene	12.783	228	98217	17.8540	ng	100
102)	bis(2-Ethylhexyl)phtha...	12.795	149	66452	18.2975	ng	95
104)	Di-n-octylphthalate	13.542	149	109702	15.0537	ng	99
105)	Benzo[b]fluoranthene	13.948	252	104700	16.7681	ng	96
106)	Benzo[k]fluoranthene	13.977	252	101928	17.5110	ng	97
107)	Benzo[a]pyrene	14.301	252	88897	16.6217	ng	94
108)	Indeno[1,2,3-cd]pyrene	15.666	276	112425	20.3100	ng	81
109)	Dibenzo[a,h]anthracene	15.689	278	89918	20.9791	ng	91
110)	Benzo[g,h,i]perylene	16.042	276	93143	20.5635	ng	76

(#) = qualifier out of range (m) = manual integration (+) = signals summed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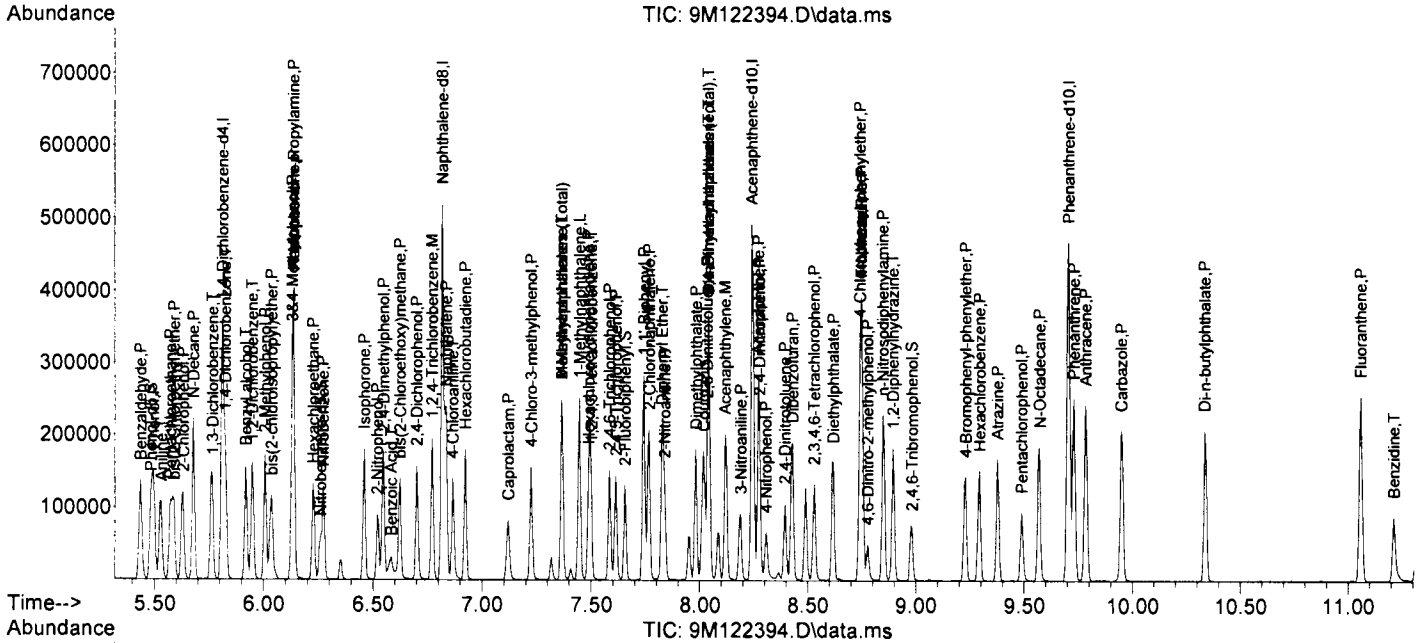
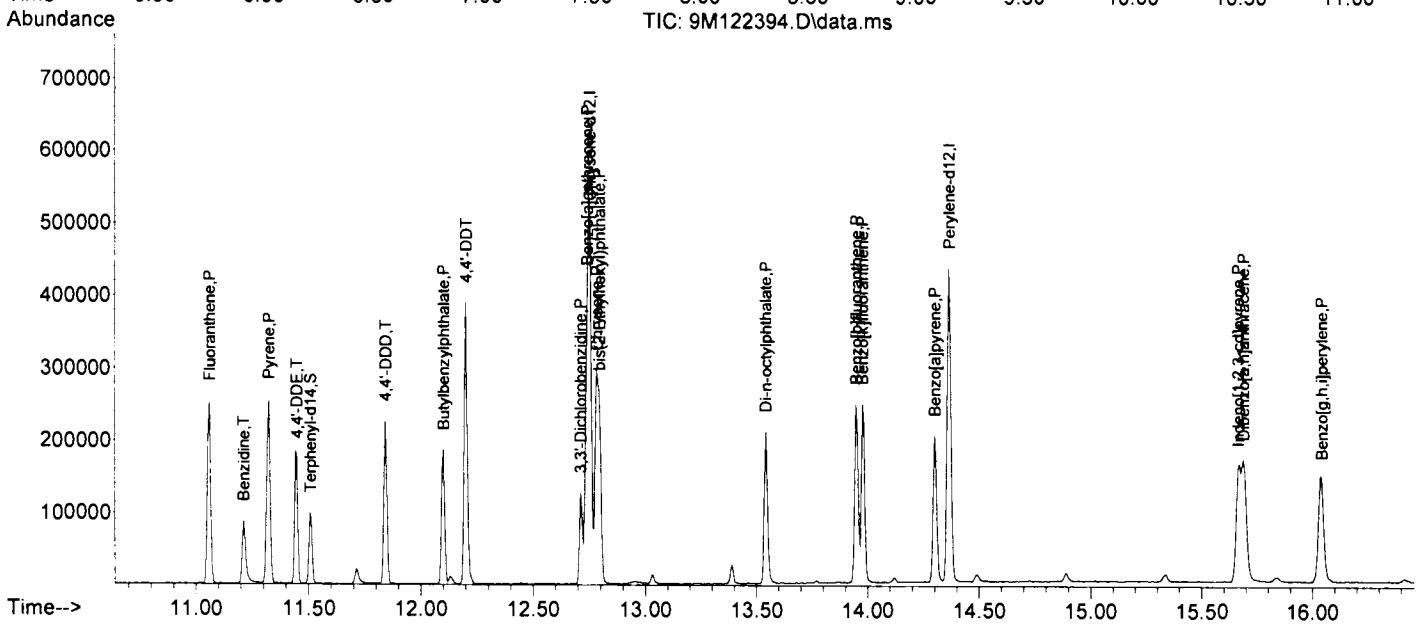
Quant QT Reviewed
SampleID : CAL BNA@20PPM
Data File: 9M122394.D
Acq On : 06/21/23 13:59
Operator : AH/JB
Sam Mult : 1 Vial# : 8
Misc : A,BNA
Qt Meth : 9M_0621.M
Qt On : 06/21/23 14:36
Qt Upd On: 06/21/23 14:36
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Phenol-d5,S
Aniline,T
2-Chlorophenol,P
Time-->


Abundance
TIC: 9M122394.D\data.ms
Time-->


Abundance
TIC: 9M122394.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Perylene-d12,I
Benzo[a]pyrene,P
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@80PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122393.D Sam Mult : 1 Vial# : 7 Qt On : 06/21/23 14:33
Acq On : 06/21/23 13:36 Misc : A,BNA Qt Upd On: 06/20/23 18:32

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.572	96	26575	40.00	ng	-0.04
21) 1,4-Dichlorobenzene-d4	5.813	152	48407	40.00	ng	-0.02
31) Naphthalene-d8	6.819	136	176975	40.00	ng	-0.02
50) Acenaphthene-d10	8.248	164	96419	40.00	ng	-0.02
77) Phenanthrene-d10	9.707	188	178707	40.00	ng	-0.03
91) Chrysene-d12	12.760	240	168368	40.00	ng	-0.03
103) Perylene-d12	14.365	264	173643	40.00	ng	-0.05
System Monitoring Compounds						
11) 2-Fluorophenol	4.613	112	117137	74.96	ng	-0.02
Spiked Amount 100.000			Recovery = 74.96%			
16) Phenol-d5	5.489	99	140941	69.60	ng	-0.03
Spiked Amount 100.000			Recovery = 69.60%			
32) Nitrobenzene-d5	6.260	128	28372	38.01	ng	-0.02
Spiked Amount 50.000			Recovery = 76.02%			
55) 2-Fluorobiphenyl	7.654	172	131290	39.84	ng	-0.03
Spiked Amount 50.000			Recovery = 79.68%			
80) 2,4,6-Tribromophenol	8.983	330	35182	87.75	ng	-0.03
Spiked Amount 100.000			Recovery = 87.75%			
94) Terphenyl-d14	11.513	244	123778	34.59	ng	-0.02
Spiked Amount 50.000			Recovery = 69.18%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.613	88	49511	75.6082	ng	87
9) Pyridine	3.060	79	104303	74.4727	ng	82
10) N-Nitrosodimethylamine	3.001	74	80709	76.1444	ng	81
12) Benzaldehyde	5.437	77	104309	71.2027	ng	97
13) Aniline	5.531	93	163308	67.7210	ng	94
14) Pentachloroethane	5.572	117	46267	77.3852	ng	77
15) bis(2-Chloroethyl)ether	5.589	93	117959m	70.8660	ng	
17) Phenol	5.501	94	166716	71.3209	ng	85
18) 2-Chlorophenol	5.631	128	128668	78.0920	ng	80
19) N-Decane	5.678	57	150699	102.1859	ng	72
20) 1,3-Dichlorobenzene	5.766	146	142984	80.2486	ng	96
22) 1,4-Dichlorobenzene	5.825	146	142427	72.1806	ng	97
23) 1,2-Dichlorobenzene	5.954	146	136088	74.9986	ng	99
24) Benzyl alcohol	5.925	108	82031	65.7670	ng	69
25) bis(2-chloroisopropyl)...	6.037	45	179202	108.1280	ng	100
26) 2-Methylphenol	6.013	108	112529	66.5157	ng	96
27) Acetophenone	6.142	105	159082	68.1383	ng	66
28) Hexachloroethane	6.225	117	52624	66.6007	ng	83
29) N-Nitroso-di-n-propyla...	6.142	70	86554	63.9991	ng	95
30) 3&4-Methylphenol	6.137	108	117359	65.7206	ng	99
33) Nitrobenzene	6.278	77	120156	60.5133	ng	76
34) Isophorone	6.460	82	223116	63.0478	ng	88
35) 2-Nitrophenol	6.525	139	64738	71.4773	ng	83
36) 2,4-Dimethylphenol	6.548	107	116983	65.1477	ng	89
37) Benzoic Acid	6.619	105	79640m	77.6401	ng	
38) bis(2-Chloroethoxy)met...	6.625	93	135915	67.7501	ng	97
39) 2,4-Dichlorophenol	6.707	162	100940	70.8874	ng	85
40) 1,2,4-Trichlorobenzene	6.772	180	111527	68.5414	ng	98
41) Naphthalene	6.836	128	367460	71.6725	ng	98
42) 4-Chloroaniline	6.866	127	126267m	72.4860	ng	
43) Hexachlorobutadiene	6.925	225	63101	67.4880	ng	97
44) Caprolactam	7.142	113	35761	70.4313	ng	68
45) 4-Chloro-3-methylphenol	7.231	107	98513	63.2770	ng	97
46) 2-Methylnaphthalene	7.372	142	242735	74.0467	ng	99
47) 1-Methylnaphthalene	7.448	142	223675	73.9278	ng	98
48) Methylnaphthalenes (To...	7.372	142	465494m	147.1509	ng	
49) 1,1'-Biphenyl	7.742	154	296509	73.3985	ng	94
51) 1,2,4,5-Tetrachloroben...	7.501	216	111702	78.1568	ng	99
52) Hexachlorocyclopentadiene	7.489	237	57530	92.6049	ng	99
53) 2,4,6-Trichlorophenol	7.589	196	70504	75.0530	ng	99
54) 2,4,5-Trichlorophenol	7.619	196	77580m	79.4750	ng	
56) 2-Chloronaphthalene	7.766	162	220973	77.3135	ng	91
57) 1,4-Dimethylnaphthalene	8.048	156	180810	76.5545	ng	85
58) Dimethylnaphthalenes (...	8.048	156	180810	76.5545	ng	85
59) Diphenyl Ether	7.831	170	152181	77.9121	ng	73
60) 2-Nitroaniline	7.842	65	72858	67.5327	ng	52
61) Coumarin	8.025	146	87319	80.5796	ng	95
62) Acenaphthylene	8.125	152	318157	79.9937	ng	98
63) Dimethylphthalate	7.989	163	232561	72.7888	ng	98
64) 2,6-Dinitrotoluene	8.042	165	53579	74.3332	ng	64
65) Acenaphthene	8.278	153	225995	78.8571	ng	97

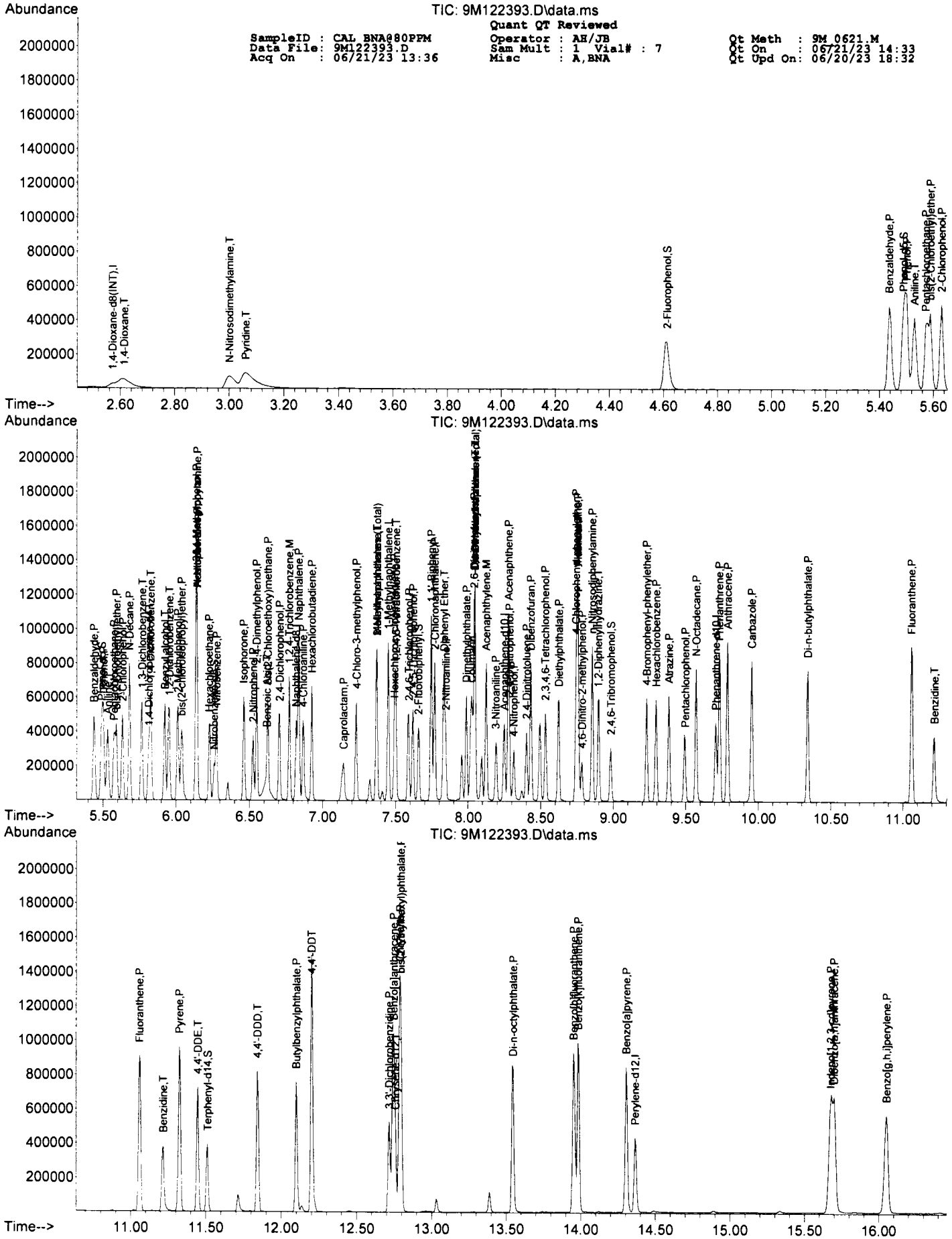
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@80PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122393.D Sam Mult : 1 Vial# : 7 Qt On : 06/21/23 14:33
Acq On : 06/21/23 13:36 Misc : A,BNA Qt Upd On: 06/20/23 18:32

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.189	138	57660	75.6523	ng	75
67)	2,4-Dinitrophenol	8.283	184	22521	60.6065	ng	50
68)	Dibenzofuran	8.430	168	308429	75.5819	ng	84
69)	2,4-Dinitrotoluene	8.401	165	69876	72.1597	ng	62
70)	4-Nitrophenol	8.313	65	43961	65.1177	ng	97
71)	2,3,4,6-Tetrachlorophenol	8.530	232	64548	76.8918	ng	82
72)	Fluorene	8.754	166	252289	77.7071	ng	97
73)	4-Chlorophenyl-phenyle...	8.742	204	122051	70.3290	ng	80
74)	Diethylphthalate	8.625	149	231165	75.5298	ng	96
75)	4-Nitroaniline	8.754	138	65558	80.4835	ng	69
76)	Atrazine	9.383	200	69234	72.2817	ng	96
78)	4,6-Dinitro-2-methylph...	8.783	198	33211	59.3442	ng	72
79)	n-Nitrosodiphenylamine	8.854	169	212672	73.1540	ng	97
81)	1,2-Diphenylhydrazine	8.895	77	257663	66.5576	ng	87
82)	4-Bromophenyl-phenylether	9.230	248	72978	74.7693	ng	82
83)	Hexachlorobenzene	9.295	284	77585	81.1792	ng	63
84)	N-Octadecane	9.572	57	136534	96.3105	ng	91
85)	Pentachlorophenol	9.495	266	48418	92.7557	ng	96
86)	Phenanthrene	9.730	178	360970	72.5200	ng	100
87)	Anthracene	9.789	178	368390	73.5634	ng	99
88)	Carbazole	9.954	167	344595	77.0465	ng	96
89)	Di-n-butylphthalate	10.342	149	410978	78.4953	ng	97
90)	Fluoranthene	11.060	202	415276	74.1858	ng	95
92)	Pyrene	11.324	202	427843	66.2982	ng	91
93)	Benzidine	11.219	184	178877	63.1209	ng	87
95)	4,4'-DDE	11.448	246	86675	66.9000	ng	93
96)	4,4'-DDD	11.842	235	167365	66.2853	ng	95
97)	Butylbenzylphthalate	12.101	149	184317	68.5090	ng	73
98)	4,4'-DDT	12.201	235	130249	65.4837	ng	98
99)	3,3'-Dichlorobenzidine	12.718	252	129039	71.6146	ng	95
100)	Benzo[a]anthracene	12.748	228	402056	69.7533	ng	99
101)	Chrysene	12.789	228	378383	70.5014	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.795	149	258318	72.9051	ng	95
104)	Di-n-octylphthalate	13.548	149	460172	64.5438	ng	100
105)	Benzo[b]fluoranthene	13.954	252	425424	69.6410	ng	96
106)	Benzo[k]fluoranthene	13.983	252	393677	69.1298	ng	98
107)	Benzo[a]pyrene	14.307	252	363882	69.5435	ng	93
108)	Indeno[1,2,3-cd]pyrene	15.677	276	457968	84.5645	ng	81
109)	Dibenzo[a,h]anthracene	15.701	278	363859	86.7721	ng	90
110)	Benzo[g,h,i]perylene	16.054	276	372934	84.1560	ng	76

(#) = qualifier out of range (m) = manual integration (+) = signals summed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Quant QT Reviewed
SampleID : CAL BNA@80PPM
Data File: 9M122393.D
Acq On : 06/21/23 13:36
Operator : AH/JB
Sam Mult : 1 Vial# : 7
Misc : A,BNA
Qt Meth : 9M_0621.M
Qt On : 06/21/23 14:33
Qt Upd On: 06/20/23 18:32
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Aniline,T
Bis(2-Chloroethyl)ether,P
2-Chlorophenol,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@120PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122392.D Sam Mult : 1 Vial# : 6 Qt On : 06/21/23 13:31
Acq On : 06/21/23 13:14 Misc : A,BNA Qt Upd On: 06/20/23 18:32

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.572	96	25317	40.00	ng	-0.04
21) 1,4-Dichlorobenzene-d4	5.813	152	48274	40.00	ng	-0.02
31) Naphthalene-d8	6.819	136	171029	40.00	ng	-0.02
50) Acenaphthene-d10	8.248	164	92999	40.00	ng	-0.02
77) Phenanthrene-d10	9.707	188	169112	40.00	ng	-0.03
91) Chrysene-d12	12.760	240	156872	40.00	ng	-0.03
103) Perylene-d12	14.371	264	162796	40.00	ng	-0.04
System Monitoring Compounds						
11) 2-Fluorophenol	4.613	112	171382	115.12	ng	-0.02
Spiked Amount 100.000			Recovery = 115.12%			
16) Phenol-d5	5.490	99	205433	106.49	ng	-0.03
Spiked Amount 100.000			Recovery = 106.49%			
32) Nitrobenzene-d5	6.260	128	40753	56.49	ng	-0.02
Spiked Amount 50.000			Recovery = 112.98%			
55) 2-Fluorobiphenyl	7.660	172	188605	59.34	ng	-0.02
Spiked Amount 50.000			Recovery = 118.68%			
80) 2,4,6-Tribromophenol	8.984	330	51730	136.34	ng	-0.03
Spiked Amount 100.000			Recovery = 136.34%			
94) Terphenyl-d14	11.513	244	179493	53.84	ng	-0.02
Spiked Amount 50.000			Recovery = 107.68%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.613	88	71024	113.8501	ng	81
9) Pyridine	3.060	79	151122	113.2633	ng	80
10) N-Nitrosodimethylamine	3.002	74	115645	114.5259	ng	79
12) Benzaldehyde	5.437	77	147626	105.7788	ng	100
13) Aniline	5.531	93	233941	101.8318	ng	93
14) Pentachloroethane	5.578	117	66985	117.6048	ng	78
15) bis(2-Chloroethyl)ether	5.590	93	166434m	104.9566	ng	
17) Phenol	5.501	94	237110	106.4757	ng	86
18) 2-Chlorophenol	5.631	128	182361	116.1793	ng	81
19) N-Decane	5.678	57	215091	153.0960	ng	72
20) 1,3-Dichlorobenzene	5.766	146	203731	120.0240	ng	98
22) 1,4-Dichlorobenzene	5.831	146	204412	103.8794	ng	96
23) 1,2-Dichlorobenzene	5.954	146	190033	105.0164	ng	98
24) Benzyl alcohol	5.925	108	118971	95.6458	ng	70
25) bis(2-chloroisopropyl)...	6.037	45	257031	155.5162	ng	100
26) 2-Methylphenol	6.013	108	159346	94.4487	ng	100
27) Acetophenone	6.143	105	222192	95.4318	ng	69
28) Hexachloroethane	6.231	117	76614	97.2295	ng	90
29) N-Nitroso-di-n-propyla...	6.143	70	120383	89.2579	ng	94
30) 3&4-Methylphenol	6.137	108	163081	91.5763	ng	96
33) Nitrobenzene	6.278	77	169588	88.3777	ng	79
34) Isophorone	6.466	82	320891	93.8293	ng	83
35) 2-Nitrophenol	6.525	139	93125	106.3941	ng	84
36) 2,4-Dimethylphenol	6.548	107	166053	95.6897	ng	92
37) Benzoic Acid	6.631	105	122164m	112.3215	ng	
38) bis(2-Chloroethoxy)met...	6.625	93	194892	100.5260	ng	98
39) 2,4-Dichlorophenol	6.707	162	144305	104.8647	ng	85
40) 1,2,4-Trichlorobenzene	6.772	180	160877	102.3079	ng	97
41) Naphthalene	6.837	128	523901	105.7387	ng	98
42) 4-Chloroaniline	6.872	127	167815m	99.6866	ng	
43) Hexachlorobutadiene	6.925	225	91209	100.9415	ng	97
44) Caprolactam	7.154	113	51584	105.1268	ng	68
45) 4-Chloro-3-methylphenol	7.231	107	139978	93.0367	ng	99
46) 2-Methylnaphthalene	7.372	142	348305	109.9450	ng	98
47) 1-Methylnaphthalene	7.448	142	325709	111.3941	ng	99
48) Methylnaphthalenes (To...	7.372	142	670170m	219.2179	ng	
49) 1,1'-Biphenyl	7.742	154	420341	107.6696	ng	94
51) 1,2,4,5-Tetrachloroben...	7.501	216	159840	115.9513	ng	98
52) Hexachlorocyclopentadiene	7.495	237	83034	134.1024	ng	98
53) 2,4,6-Trichlorophenol	7.589	196	103985m	114.7649	ng	
54) 2,4,5-Trichlorophenol	7.619	196	107898	114.5983	ng	100
56) 2-Chloronaphthalene	7.766	162	307086	111.3937	ng	92
57) 1,4-Dimethylnaphthalene	8.048	156	257057	112.8397	ng	86
58) Dimethylnaphthalenes (...	8.048	156	257057	112.8397	ng	86
59) Diphenyl Ether	7.831	170	218271	115.8577	ng	74
60) 2-Nitroaniline	7.842	65	105208	101.1044	ng	59
61) Coumarin	8.031	146	124256	118.8825	ng	90
62) Acenaphthylene	8.125	152	455723	118.7954	ng	98
63) Dimethylphthalate	7.989	163	339991	110.3265	ng	98
64) 2,6-Dinitrotoluene	8.048	165	76255	109.6834	ng	61
65) Acenaphthene	8.278	153	327245	118.3857	ng	97

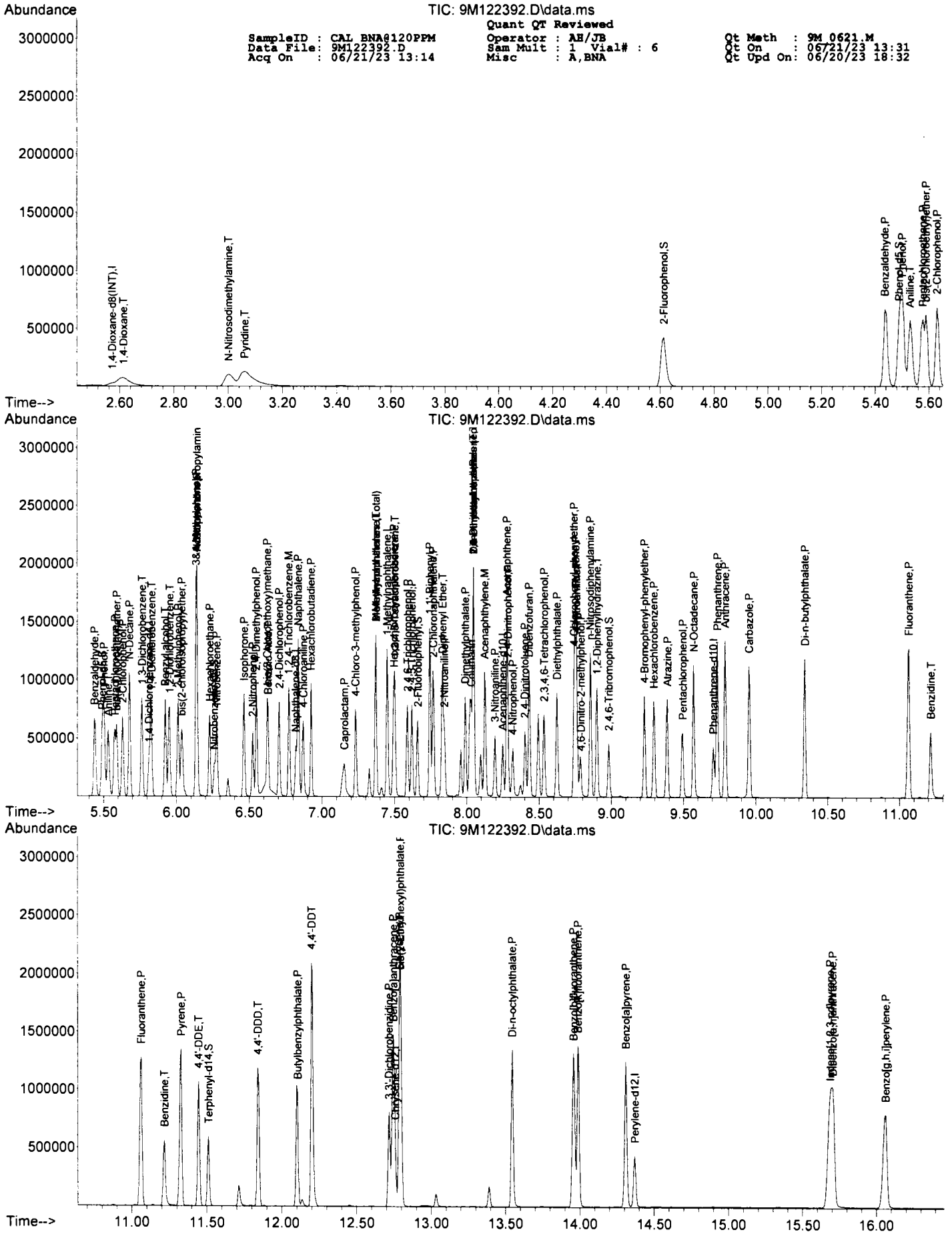
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@120PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122392.D Sam Mult : 1 Vial# : 6 Qt On : 06/21/23 13:31
Acq On : 06/21/23 13:14 Misc : A,BNA Qt Upd On: 06/20/23 18:32

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.195	138	80470	109.4626	ng	75
67)	2,4-Dinitrophenol	8.284	184	36227	95.1615	ng	57
68)	Dibenzofuran	8.431	168	440490	111.9136	ng	84
69)	2,4-Dinitrotoluene	8.401	165	102494	109.7361	ng	69
70)	4-Nitrophenol	8.319	65	59324	91.1059	ng	93
71)	2,3,4,6-Tetrachlorophenol	8.536	232	94966	117.2870	ng	81
72)	Fluorene	8.754	166	361522	115.4467	ng	98
73)	4-Chlorophenyl-phenyle...	8.742	204	176434	105.4046	ng	82
74)	Diethylphthalate	8.625	149	334736	113.3922	ng	97
75)	4-Nitroaniline	8.760	138	93285	118.7346	ng	70
76)	Atrazine	9.389	200	98716	106.8515	ng	95
78)	4,6-Dinitro-2-methylph...	8.789	198	52033	98.2522	ng	77
79)	n-Nitrosodiphenylamine	8.854	169	308770	112.2354	ng	98
81)	1,2-Diphenylhydrazine	8.901	77	336424	91.8332	ng	80
82)	4-Bromophenyl-phenylether	9.231	248	106367	115.1609	ng	81
83)	Hexachlorobenzene	9.295	284	114182	126.2502	ng	65
84)	N-Octadecane	9.572	57	198252	147.7806	ng	89
85)	Pentachlorophenol	9.495	266	73398	148.5886	ng	97
86)	Phenanthrene	9.736	178	519894	110.3744	ng	99
87)	Anthracene	9.789	178	535137	112.9239	ng	100
88)	Carbazole	9.954	167	498025	117.6691	ng	96
89)	Di-n-butylphthalate	10.342	149	608478	122.8110	ng	97
90)	Fluoranthene	11.066	202	603002	113.8334	ng	91
92)	Pyrene	11.330	202	611441	101.6918	ng	87
93)	Benzidine	11.219	184	250850	95.0050	ng	87
95)	4,4'-DDE	11.448	246	126477	104.7751	ng	93
96)	4,4'-DDD	11.842	235	243737	103.6067	ng	96
97)	Butylbenzylphthalate	12.107	149	270759	108.0138	ng	67
98)	4,4'-DDT	12.201	235	191072	103.1027	ng	97
99)	3,3'-Dichlorobenzidine	12.719	252	189867	113.0951	ng	97
100)	Benzo[a]anthracene	12.748	228	586714	109.2493	ng	98
101)	Chrysene	12.789	228	541964	108.3804	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.795	149	369579	111.9501	ng	95
104)	Di-n-octylphthalate	13.548	149	676959	101.2769	ng	100
105)	Benzo[b]fluoranthene	13.960	252	626063	109.3137	ng	96
106)	Benzo[k]fluoranthene	13.989	252	548302m	102.6971	ng	
107)	Benzo[a]pyrene	14.313	252	524625	106.9444	ng	93
108)	Indeno[1,2,3-cd]pyrene	15.689	276	674183	132.7835	ng	84
109)	Dibenzo[a,h]anthracene	15.707	278	525777	133.7402	ng	91
110)	Benzo[g,h,i]perylene	16.065	276	549463	132.2528	ng	76

(#) = qualifier out of range (m) = manual integration (+) = signals summed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TIC: 9M122392.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@120PPM
Data File: 9M122392.D
Acq On : 06/21/23 13:14
Operator : AH/JB
Sam Mult : 1 Vial# : 6
Misc : A,BNA
Qt Meth : 9M_0621.M
Qt On : 06/21/23 13:31
Qt Upd On: 06/20/23 18:32
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Phenol-d5,S
Aniline,T
2-Chlorophenol,P
Time-->
Abundance
TIC: 9M122392.D\data.ms
Benzaldehyde,P
N-Decane,P
1,3-Dichlorobenzene,T
Benzyl alcohol,T
bis(2-Chloroethyl)ether,P
Isophorone,P
2-Nitrophenol,P
2,4-Dimethylphenol,P
bis(2-Chloroethoxy)methane,P
2,4-Dichlorophenol,P
1,2,4-Trichlorobenzene,M
Naphthalene,P
4-Chloroaniline,P
Hexachlorobutadiene,P
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Fluorobiphenyl,S
2-Chloronaphthalene,P
Dimethylphthalate,P
Acenaphthylene,M
3-Nitroaniline,P
Acenaphthene,P
4-Nitrophenol,P
2,4-Dinitrotoluene,P
Dibenzofuran,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
2,4,6-Tribromophenol,S
Time-->
Abundance
TIC: 9M122392.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@160PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122391.D Sam Mult : 1 Vial# : 5 Qt On : 06/21/23 13:24
Acq On : 06/21/23 12:51 Misc : A,BNA Qt Upd On: 06/20/23 18:32

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.578	96	25260	40.00	ng	-0.04
21) 1,4-Dichlorobenzene-d4	5.813	152	46712	40.00	ng	-0.02
31) Naphthalene-d8	6.819	136	167100	40.00	ng	-0.02
50) Acenaphthene-d10	8.248	164	89053	40.00	ng	-0.02
77) Phenanthrene-d10	9.707	188	163851	40.00	ng	-0.03
91) Chrysene-d12	12.760	240	155214	40.00	ng	-0.03
103) Perylene-d12	14.371	264	163284	40.00	ng	-0.04
System Monitoring Compounds						
11) 2-Fluorophenol	4.613	112	237315	159.77	ng	-0.02
Spiked Amount 100.000			Recovery = 159.77%			
16) Phenol-d5	5.496	99	282329	146.68	ng	-0.02
Spiked Amount 100.000			Recovery = 146.68%			
32) Nitrobenzene-d5	6.260	128	54675	77.57	ng	-0.02
Spiked Amount 50.000			Recovery = 155.14%			
55) 2-Fluorobiphenyl	7.660	172	256123	84.15	ng	-0.02
Spiked Amount 50.000			Recovery = 168.30%			
80) 2,4,6-Tribromophenol	8.984	330	71167	193.59	ng	-0.03
Spiked Amount 100.000			Recovery = 193.59%			
94) Terphenyl-d14	11.513	244	244639	74.16	ng	-0.02
Spiked Amount 50.000			Recovery = 148.32%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.613	88	99751	160.2598	ng	77
9) Pyridine	3.060	79	212729	159.7965	ng	80
10) N-Nitrosodimethylamine	3.002	74	159422	158.2355	ng	79
12) Benzaldehyde	5.437	77	200868	144.2532	ng	96
13) Aniline	5.531	93	313350	136.7054	ng	94
14) Pentachloroethane	5.578	117	90407	159.0848	ng	78
15) bis(2-Chloroethyl)ether	5.590	93	229391m	144.9850	ng	
17) Phenol	5.507	94	327057	147.1984	ng	84
18) 2-Chlorophenol	5.631	128	248359	158.5826	ng	83
19) N-Decane	5.678	57	290031	206.9022	ng	72
20) 1,3-Dichlorobenzene	5.766	146	274343	161.9883	ng	97
22) 1,4-Dichlorobenzene	5.831	146	271528	142.6010	ng	98
23) 1,2-Dichlorobenzene	5.954	146	257008	146.7775	ng	99
24) Benzyl alcohol	5.925	108	161747	134.3835	ng	72
25) bis(2-chloroisopropyl)...	6.037	45	342529	214.1767	ng	99
26) 2-Methylphenol	6.013	108	217626	133.3062	ng	99
27) Acetophenone	6.143	105	295005	130.9420	ng	77
28) Hexachloroethane	6.231	117	102473	134.3954	ng	89
29) N-Nitroso-di-n-propyla...	6.143	70	160801	123.2126	ng	91
30) 3&4-Methylphenol	6.137	108	223036	129.4314	ng	96
33) Nitrobenzene	6.278	77	231255	123.3479	ng	80
34) Isophorone	6.466	82	430149	128.7340	ng	86
35) 2-Nitrophenol	6.525	139	126814	148.2900	ng	86
36) 2,4-Dimethylphenol	6.554	107	223458	131.7976	ng	87
37) Benzoic Acid	6.643	105	172547	148.6052	ng	85
38) bis(2-Chloroethoxy)met...	6.631	93	260280	137.4101	ng	95
39) 2,4-Dichlorophenol	6.707	162	196431	146.1003	ng	86
40) 1,2,4-Trichlorobenzene	6.772	180	216250	140.7552	ng	97
41) Naphthalene	6.837	128	703343	145.2931	ng	98
42) 4-Chloroaniline	6.872	127	218083m	132.5932	ng	
43) Hexachlorobutadiene	6.925	225	123634	140.0437	ng	97
44) Caprolactam	7.166	113	71331	148.7887	ng	69
45) 4-Chloro-3-methylphenol	7.237	107	191728	130.4287	ng	96
46) 2-Methylnaphthalene	7.372	142	461589	149.1298	ng	98
47) 1-Methylnaphthalene	7.448	142	435949	152.6025	ng	99
48) Methylnaphthalenes (To...	7.372	142	892208m	298.7105	ng	
49) 1,1'-Biphenyl	7.743	154	579692	151.9785	ng	96
51) 1,2,4,5-Tetrachloroben...	7.501	216	214493	162.4924	ng	98
52) Hexachlorocyclopentadiene	7.495	237	114197	185.2389	ng	99
53) 2,4,6-Trichlorophenol	7.590	196	138150m	159.2279	ng	
54) 2,4,5-Trichlorophenol	7.619	196	147386	163.4748	ng	98
56) 2-Chloronaphthalene	7.772	162	415464	157.3852	ng	90
57) 1,4-Dimethylnaphthalene	8.048	156	342473	156.9960	ng	87
58) Dimethylnaphthalenes (...	8.048	156	342473	156.9960	ng	87
59) Diphenyl Ether	7.831	170	293494	162.6889	ng	74
60) 2-Nitroaniline	7.843	65	140104	140.6053	ng	63
61) Coumarin	8.037	146	166616	166.4742	ng	81
62) Acenaphthylene	8.131	152	618430	168.3523	ng	98
63) Dimethylphthalate	7.995	163	457747	155.1199	ng	98
64) 2,6-Dinitrotoluene	8.048	165	102743	154.3314	ng	64
65) Acenaphthene	8.278	153	429919	162.4212	ng	97

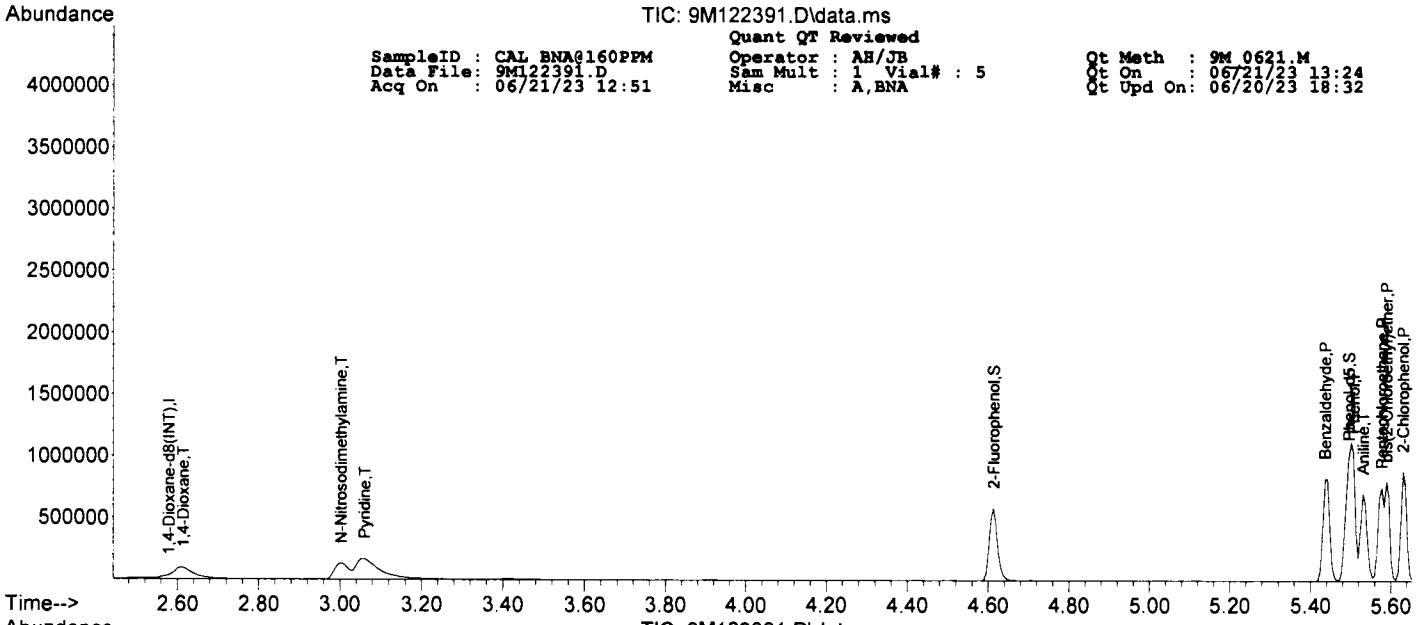
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@160PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122391.D Sam Mult : 1 Vial# : 5 Qt On : 06/21/23 13:24
Acq On : 06/21/23 12:51 Misc : A,BNA Qt Upd On: 06/20/23 18:32

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.195	138	107478	152.6796	ng	77
67)	2,4-Dinitrophenol	8.284	184	53178	136.3638	ng	69
68)	Dibenzofuran	8.437	168	591926	157.0522	ng	81
69)	2,4-Dinitrotoluene	8.407	165	143483	160.4284	ng	60
70)	4-Nitrophenol	8.319	65	85461	137.0609	ng	95
71)	2,3,4,6-Tetrachlorophenol	8.537	232	128435	165.6513	ng	82
72)	Fluorene	8.754	166	491351	163.8583	ng	99
73)	4-Chlorophenyl-phenyle...	8.742	204	239087	149.1637	ng	82
74)	Diethylphthalate	8.625	149	453239	160.3384	ng	96
75)	4-Nitroaniline	8.766	138	126685	168.3916	ng	72
76)	Atrazine	9.389	200	135843	153.5537	ng	95
78)	4,6-Dinitro-2-methylph...	8.790	198	72641	141.5697	ng	72
79)	n-Nitrosodiphenylamine	8.860	169	417385	156.5875	ng	99
81)	1,2-Diphenylhydrazine	8.901	77	455750	128.3999	ng	83
82)	4-Bromophenyl-phenylether	9.231	248	146382	163.5729	ng	81
83)	Hexachlorobenzene	9.301	284	155408	177.3508	ng	58
84)	N-Octadecane	9.572	57	267523	205.8194	ng	90
85)	Pentachlorophenol	9.495	266	99051	206.9595	ng	97
86)	Phenanthrene	9.736	178	704799	154.4345	ng	100
87)	Anthracene	9.789	178	734744	160.0230	ng	100
88)	Carbazole	9.960	167	680387	165.9177	ng	95
89)	Di-n-butylphthalate	10.342	149	820898	171.0042	ng	97
90)	Fluoranthene	11.066	202	820377	159.8416	ng	93
92)	Pyrene	11.331	202	836439	140.5983	ng	90
93)	Benzidine	11.219	184	317204	121.4188	ng	88
95)	4,4'-DDE	11.448	246	175963	147.3270	ng	93
96)	4,4'-DDD	11.848	235	327894	140.8687	ng	95
97)	Butylbenzylphthalate	12.107	149	370543	149.3996	ng	70
98)	4,4'-DDT	12.207	235	263019	143.4414	ng	97
99)	3,3'-Dichlorobenzidine	12.725	252	261570	157.4697	ng	96
100)	Benzo[a]anthracene	12.748	228	782516	147.2651	ng	98
101)	Chrysene	12.795	228	722454	146.0176	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.801	149	499063	152.7872	ng	94
104)	Di-n-octylphthalate	13.548	149	926427	138.1845	ng	99
105)	Benzo[b]fluoranthene	13.960	252	841468	146.4854	ng	96
106)	Benzo[k]fluoranthene	13.995	252	751309m	140.2998	ng	
107)	Benzo[a]pyrene	14.319	252	730235	148.4130	ng	91
108)	Indeno[1,2,3-cd]pyrene	15.689	276	937223	184.0388	ng	84
109)	Dibenzo[a,h]anthracene	15.713	278	735528	186.5348	ng	89
110)	Benzo[g,h,i]perylene	16.066	276	742795	178.2524	ng	77

(#) = qualifier out of range (m) = manual integration (+) = signals summed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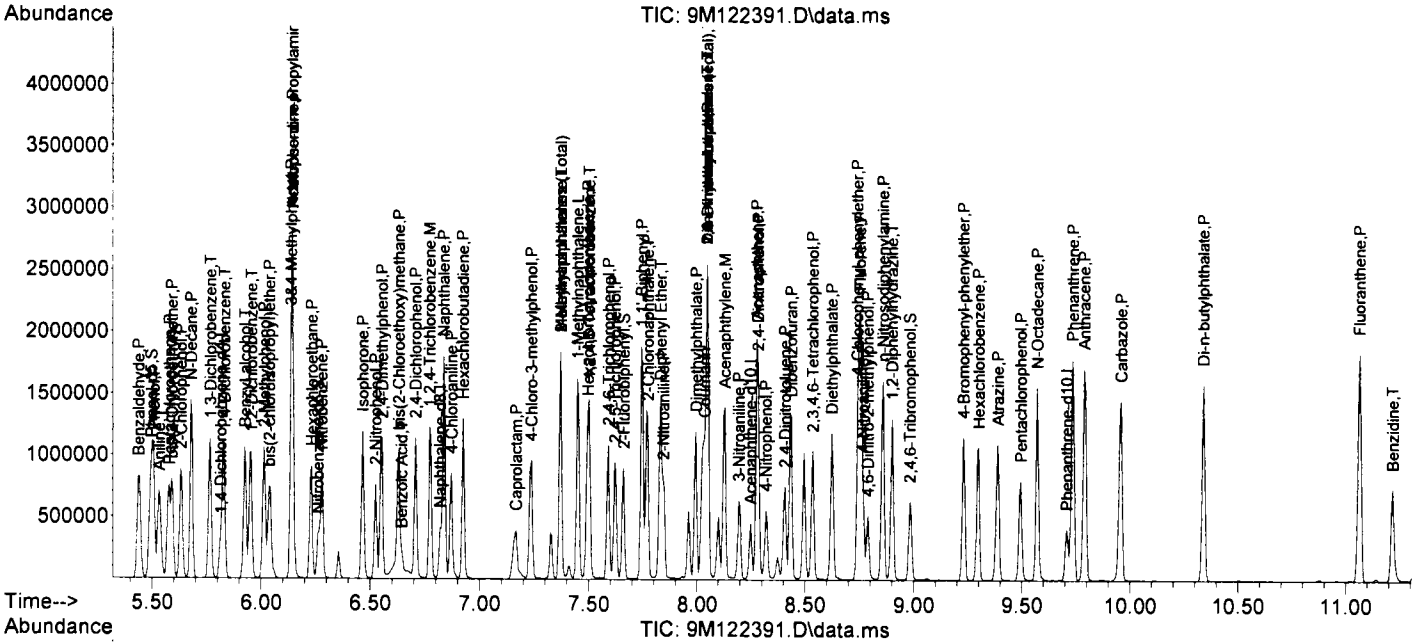
Quant QT Reviewed
SampleID : CAL BNA@160PPM
Data File: 9M122391.D
Acq On : 06/21/23 12:51
Operator : AH/JB
Sam Mult : 1 Vial# : 5
Misc : A,BNA
Qt Meth : 9M_0621.M
Qt On : 06/21/23 13:24
Qt Upd On: 06/20/23 18:32
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
Time-->


Abundance
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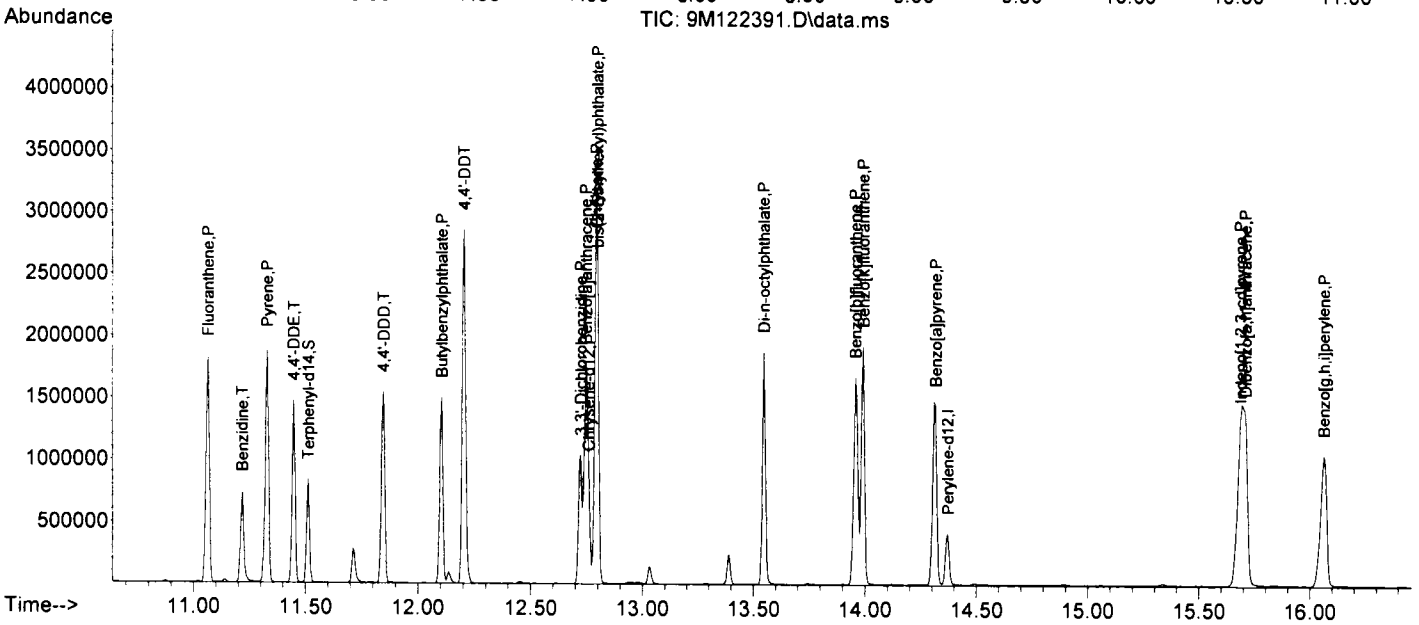
Benzaldehyde,P
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
Acenaphthylene,M
4-Nitrophenol,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Time-->


Abundance
TIC: 9M122391.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@196PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122390.D Sam Mult : 1 Vial# : 4 Qt On : 06/21/23 13:23
Acq On : 06/21/23 12:29 Misc : A,BNA Qt Upd On: 06/20/23 18:32

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.578	96	25917	40.00	ng	-0.04
21) 1,4-Dichlorobenzene-d4	5.813	152	45818	40.00	ng	-0.02
31) Naphthalene-d8	6.825	136	165680	40.00	ng	-0.02
50) Acenaphthene-d10	8.248	164	90112	40.00	ng	-0.02
77) Phenanthrene-d10	9.707	188	169256	40.00	ng	-0.03
91) Chrysene-d12	12.760	240	154408	40.00	ng	-0.03
103) Perylene-d12	14.371	264	162742	40.00	ng	-0.04
System Monitoring Compounds						
11) 2-Fluorophenol	4.613	112	300713	197.32	ng	-0.02
Spiked Amount 100.000			Recovery = 197.32%			
16) Phenol-d5	5.496	99	356458	180.50	ng	-0.02
Spiked Amount 100.000			Recovery = 180.50%			
32) Nitrobenzene-d5	6.266	128	69076	98.85	ng	-0.02
Spiked Amount 50.000			Recovery = 197.70%			
55) 2-Fluorobiphenyl	7.660	172	326640	106.06	ng	-0.02
Spiked Amount 50.000			Recovery = 212.12%			
80) 2,4,6-Tribromophenol	8.989	330	91054	239.78	ng	-0.02
Spiked Amount 100.000			Recovery = 239.78%			
94) Terphenyl-d14	11.513	244	311283	94.85	ng	-0.02
Spiked Amount 50.000			Recovery = 189.70%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.613	88	127301	199.3369	ng	76
9) Pyridine	3.060	79	265315	194.2455	ng	80
10) N-Nitrosodimethylamine	3.002	74	208527	201.7282	ng	80
12) Benzaldehyde	5.443	77	252577	176.7897	ng	99
13) Aniline	5.537	93	401263	170.6215	ng	95
14) Pentachloroethane	5.578	117	115064	197.3398	ng	77
15) bis(2-Chloroethyl)ether	5.596	93	287599m	177.1670	ng	
17) Phenol	5.507	94	413109	181.2144	ng	86
18) 2-Chlorophenol	5.637	128	313846	195.3174	ng	80
19) N-Decane	5.684	57	365440	254.0887	ng	73
20) 1,3-Dichlorobenzene	5.766	146	347282	199.8577	ng	98
22) 1,4-Dichlorobenzene	5.831	146	344539	184.4754	ng	97
23) 1,2-Dichlorobenzene	5.954	146	324943	189.1962	ng	97
24) Benzyl alcohol	5.931	108	201945	171.0547	ng	70
25) bis(2-chloroisopropyl)...	6.043	45	431261	274.9206	ng	100
26) 2-Methylphenol	6.013	108	275254	171.8960	ng	99
27) Acetophenone	6.149	105	368938	166.9535	ng	67
28) Hexachloroethane	6.231	117	129806	173.5649	ng	90
29) N-Nitroso-di-n-propyla...	6.149	70	202388	158.1042	ng	96
30) 3&4-Methylphenol	6.143	108	275125	162.7748	ng	99
33) Nitrobenzene	6.284	77	287365	154.5899	ng	76
34) Isophorone	6.472	82	538681	162.5970	ng	82
35) 2-Nitrophenol	6.525	139	161109	190.0075	ng	88
36) 2,4-Dimethylphenol	6.554	107	284281	169.1087	ng	90
37) Benzoic Acid	6.648	105	216887	176.7613	ng	87
38) bis(2-Chloroethoxy)met...	6.631	93	327467	174.3619	ng	96
39) 2,4-Dichlorophenol	6.707	162	249255	186.9784	ng	87
40) 1,2,4-Trichlorobenzene	6.778	180	270130	177.3322	ng	96
41) Naphthalene	6.843	128	888796	185.1767	ng	98
42) 4-Chloroaniline	6.872	127	379654	232.8058	ng	94
43) Hexachlorobutadiene	6.925	225	154469	176.4710	ng	96
44) Caprolactam	7.178	113	90071	189.4886	ng	70
45) 4-Chloro-3-methylphenol	7.237	107	241789	165.8940	ng	98
46) 2-Methylnaphthalene	7.372	142	582058	189.6625	ng	97
47) 1-Methylnaphthalene	7.454	142	546294	192.8673	ng	98
48) Methylnaphthalenes (To...	7.372	142	1121956m	378.8494	ng	
49) 1,1'-Biphenyl	7.748	154	727932	192.4784	ng	94
51) 1,2,4,5-Tetrachloroben...	7.501	216	268120	200.7313	ng	99
52) Hexachlorocyclopentadiene	7.495	237	147201	228.5636	ng	97
53) 2,4,6-Trichlorophenol	7.590	196	174597m	198.8707	ng	
54) 2,4,5-Trichlorophenol	7.625	196	185513	203.3457	ng	100
56) 2-Chloronaphthalene	7.772	162	527055	197.3115	ng	90
57) 1,4-Dimethylnaphthalene	8.054	156	425134	192.5990	ng	87
58) Dimethylnaphthalenes (...	8.054	156	425134	192.5990	ng	87
59) Diphenyl Ether	7.831	170	371442	203.4771	ng	76
60) 2-Nitroaniline	7.848	65	177586	176.1269	ng	53
61) Coumarin	8.037	146	210098	207.4523	ng	81
62) Acenaphthylene	8.131	152	778124	209.3357	ng	98
63) Dimethylphthalate	7.995	163	585027	195.9223	ng	98
64) 2,6-Dinitrotoluene	8.048	165	129156	191.7267	ng	73
65) Acenaphthene	8.284	153	553628	206.6998	ng	98

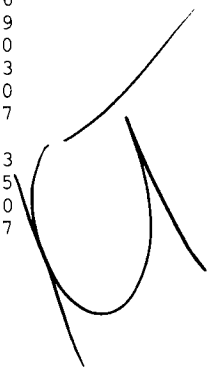
Quantitation Report (QT Reviewed)

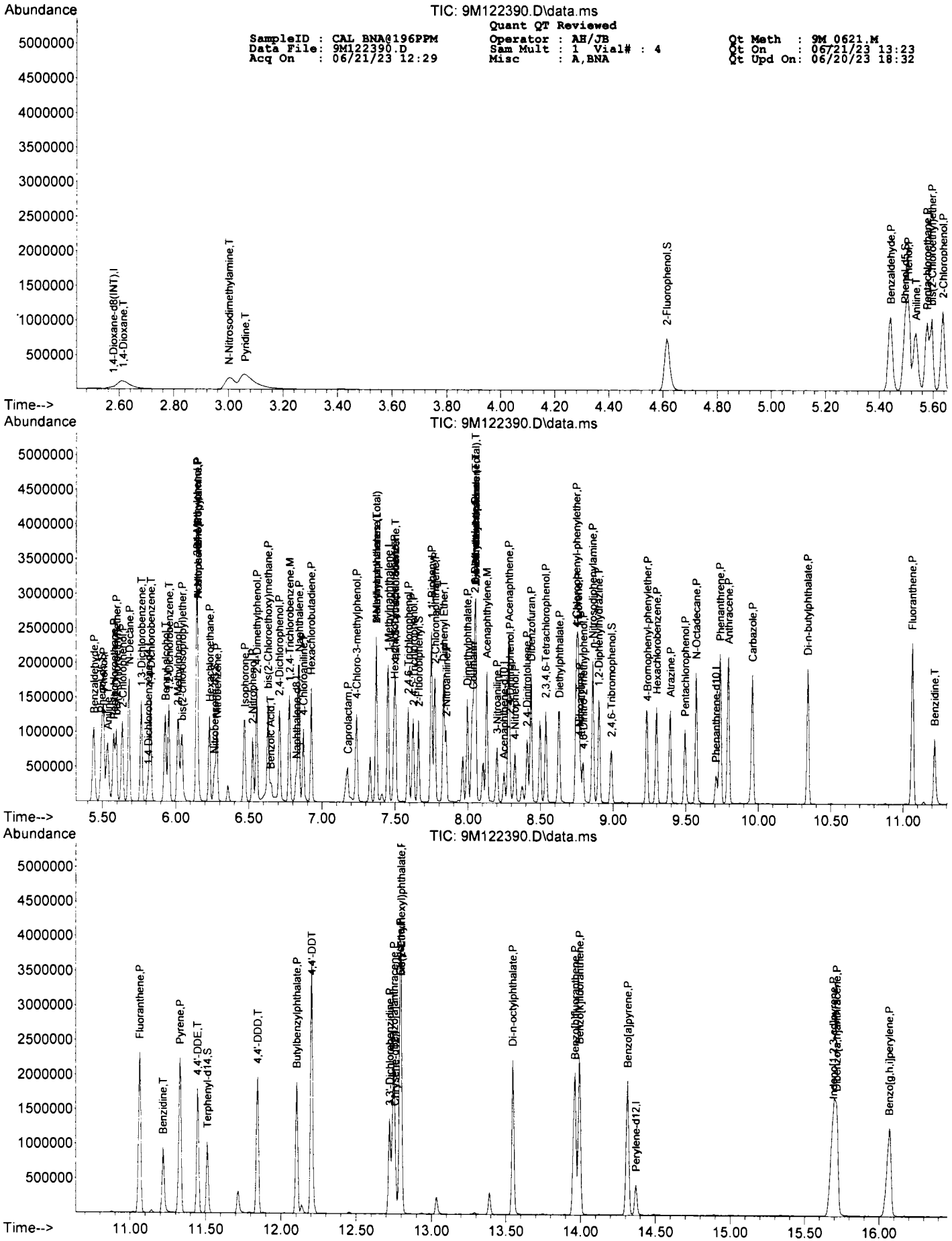
SampleID : CAL BNA@196PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122390.D Sam Mult : 1 Vial# : 4 Qt On : 06/21/23 13:23
Acq On : 06/21/23 12:29 Misc : A,BNA Qt Upd On: 06/20/23 18:32

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.201	138	129979	182.4739	ng	72
67)	2,4-Dinitrophenol	8.290	184	67872	164.6314	ng	41
68)	Dibenzofuran	8.437	168	748358	196.2240	ng	83
69)	2,4-Dinitrotoluene	8.407	165	178537	197.2763	ng	67
70)	4-Nitrophenol	8.325	65	108200	171.4900	ng	91
71)	2,3,4,6-Tetrachlorophenol	8.537	232	161399	205.7208	ng	82
72)	Fluorene	8.760	166	617856	203.6244	ng	100
73)	4-Chlorophenyl-phenyle...	8.748	204	303378	187.0498	ng	78
74)	Diethylphthalate	8.631	149	569321	199.0368	ng	96
75)	4-Nitroaniline	8.772	138	159622	209.6784	ng	73
76)	Atrazine	9.395	200	169439	189.2789	ng	95
78)	4,6-Dinitro-2-methylph...	8.795	198	93503	176.4084	ng	72
79)	n-Nitrosodiphenylamine	8.860	169	526863	191.3476	ng	100
81)	1,2-Diphenylhydrazine	8.901	77	627948	171.2642	ng	85
82)	4-Bromophenyl-phenylether	9.237	248	185460	200.6221	ng	77
83)	Hexachlorobenzene	9.301	284	195329	215.7901	ng	62
84)	N-Octadecane	9.572	57	341435	254.2953	ng	90
85)	Pentachlorophenol	9.495	266	129346	261.6282	ng	97
86)	Phenanthrene	9.736	178	873878	185.3681	ng	100
87)	Anthracene	9.795	178	899704	189.6928	ng	98
88)	Carbazole	9.960	167	853943	201.5907	ng	96
89)	Di-n-butylphthalate	10.342	149	1045228	210.7821	ng	97
90)	Fluoranthene	11.066	202	1036948	195.5862	ng	94
92)	Pyrene	11.331	202	1053647	178.0336	ng	92
93)	Benzidine	11.219	184	401952	154.6616	ng	88
95)	4,4'-DDE	11.448	246	222377	187.1595	ng	93
96)	4,4'-DDD	11.848	235	410597	177.3201	ng	95
97)	Butylbenzylphthalate	12.107	149	468524	189.8907	ng	72
98)	4,4'-DDT	12.207	235	326207	178.8306	ng	97
99)	3,3'-Dichlorobenzidine	12.725	252	306576	185.5275	ng	96
100)	Benzo[a]anthracene	12.754	228	1017870	192.5574	ng	99
101)	Chrysene	12.795	228	871906	177.1437	ng	100
102)	bis(2-Ethylhexyl)phtha...	12.801	149	629794	193.8168	ng	93
104)	Di-n-octylphthalate	13.548	149	1170975	175.2426	ng	100
105)	Benzo[b]fluoranthene	13.966	252	1047159	182.8999	ng	97
106)	Benzo[k]fluoranthene	13.995	252	969263m	181.6035	ng	
107)	Benzo[a]pyrene	14.319	252	911900	185.9519	ng	93
108)	Indeno[1,2,3-cd]pyrene	15.695	276	1192323	234.9115	ng	85
109)	Dibenzo[a,h]anthracene	15.718	278	925108	235.3949	ng	90
110)	Benzo[g,h,i]perylene	16.071	276	940779	226.5156	ng	77

(#) = qualifier out of range (m) = manual integration (+) = signals summed




Abundance
TIC: 9M122390.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@196PPM
Data File: 9M122390.D
Acq On : 06/21/23 12:29
Operator : AH/JB
Sam Mult : 1 Vial# : 4
Misc : A,BNA
Qt Meth : 9M_0621.M
Qt On : 06/21/23 13:23
Qt Upd On: 06/20/23 18:32
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Aniline,T
2-Chlorophenol,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@0.5PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122395.D Sam Mult : 1 Vial# : 9 Qt On : 06/21/23 14:38
Acq On : 06/21/23 14:21 Misc : A,BNA Qt Upd On: 06/21/23 14:36

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.572	96	25900	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.813	152	50542	40.00	ng	0.00
31) Naphthalene-d8	6.819	136	185669	40.00	ng	0.00
50) Acenaphthene-d10	8.242	164	100737	40.00	ng	0.00
77) Phenanthrene-d10	9.701	188	181464	40.00	ng	0.00
91) Chrysene-d12	12.754	240	166801	40.00	ng	0.00
103) Perylene-d12	14.366	264	167951	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	0.000	112	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
16) Phenol-d5	0.000	99	0d	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
32) Nitrobenzene-d5	0.000	128	0	0.00	ng	
Spiked Amount 50.000			Recovery =	0.00%		
55) 2-Fluorobiphenyl	0.000	172	0d	0.00	ng	
Spiked Amount 50.000			Recovery =	0.00%		
80) 2,4,6-Tribromophenol	0.000	330	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
94) Terphenyl-d14	0.000	244	0d	0.00	ng	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
8) 1,4-Dioxane	2.608	88	378m	0.5923	ng	
9) Pyridine	0.000		0	N.D. d		
10) N-Nitrosodimethylamine	0.000		0	N.D.		
12) Benzaldehyde	0.000		0	N.D. d		
13) Aniline	5.531	93	1359	0.5782	ng	94
14) Pentachloroethane	0.000		0	N.D. d		
15) bis(2-Chloroethyl)ether	5.590	93	1100	0.6781	ng	93
17) Phenol	0.000		0	N.D. d		
18) 2-Chlorophenol	0.000		0	N.D. d		
19) N-Decane	0.000		0	N.D. d		
20) 1,3-Dichlorobenzene	0.000		0	N.D. d		
22) 1,4-Dichlorobenzene	0.000		0	N.D. d		
23) 1,2-Dichlorobenzene	0.000		0	N.D. d		
24) Benzyl alcohol	0.000		0	N.D. d		
25) bis(2-chloroisopropyl)...	0.000		0	N.D. d		
26) 2-Methylphenol	6.007	108	926	0.5242	ng	88
27) Acetophenone	0.000		0	N.D. d		
28) Hexachloroethane	0.000		0	N.D.		
29) N-Nitroso-di-n-propyla...	6.137	70	669	0.4738	ng	88
30) 3&4-Methylphenol	6.131	108	997	0.5347	ng	95
33) Nitrobenzene	0.000		0	N.D. d		
34) Isophorone	0.000		0	N.D. d		
35) 2-Nitrophenol	0.000		0	N.D.		
36) 2,4-Dimethylphenol	6.548	107	940	0.4990	ng	95
37) Benzoic Acid	0.000		0	N.D.		
38) bis(2-Chloroethoxy)met...	0.000		0	N.D. d		
39) 2,4-Dichlorophenol	6.701	162	690	0.4619	ng	80
40) 1,2,4-Trichlorobenzene	0.000		0	N.D. d		
41) Naphthalene	6.837	128	3659	0.6803	ng	93
42) 4-Chloroaniline	6.866	127	1060m	0.5800	ng	
43) Hexachlorobutadiene	0.000		0	N.D. d		
44) Caprolactam	0.000		0	N.D.		
45) 4-Chloro-3-methylphenol	0.000		0	N.D. d		
46) 2-Methylnaphthalene	0.000		0	N.D. d		
47) 1-Methylnaphthalene	0.000		0	N.D. d		
48) Methylnaphthalenes (To...	0.000		0	N.D. d		
49) 1,1'-Biphenyl	0.000		0	N.D. d		
51) 1,2,4,5-Tetrachloroben...	0.000		0	N.D. d		
52) Hexachlorocyclopentadiene	0.000		0	N.D.		
53) 2,4,6-Trichlorophenol	0.000		0	N.D. d		
54) 2,4,5-Trichlorophenol	0.000		0	N.D. d		
56) 2-Chloronaphthalene	0.000		0	N.D. d		
57) 1,4-Dimethylnaphthalene	0.000		0	N.D. d		
58) Dimethylnaphthalenes (...	0.000		0	N.D. d		
59) Diphenyl Ether	0.000		0	N.D. d		
60) 2-Nitroaniline	0.000		0	N.D.		
61) Coumarin	0.000		0	N.D. d		
62) Acenaphthylene	0.000		0	N.D. d		
63) Dimethylphthalate	0.000		0	N.D. d		
64) 2,6-Dinitrotoluene	0.000		0	N.D. d		
65) Acenaphthene	0.000		0	N.D. d		

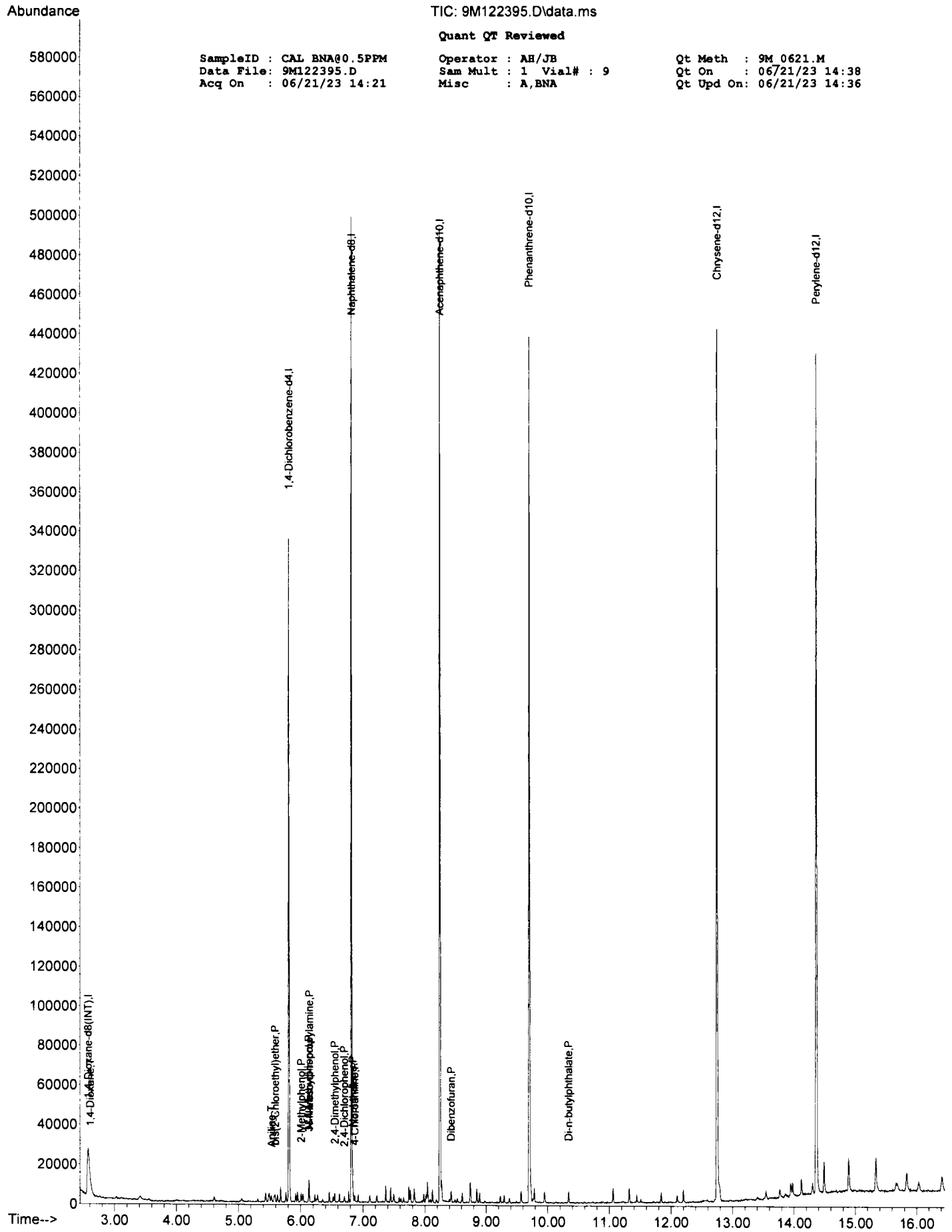
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@0.5PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122395.D Sam Mult : 1 Vial# : 9 Qt On : 06/21/23 14:38
Acq On : 06/21/23 14:21 Misc : A,BNA Qt Upd On: 06/21/23 14:36

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	0.000		0	N.D.		
67)	2,4-Dinitrophenol	0.000		0	N.D.		
68)	Dibenzofuran	8.425	168	3133m	0.7348	ng	
69)	2,4-Dinitrotoluene	0.000		0	N.D. d		
70)	4-Nitrophenol	0.000		0	N.D.		
71)	2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
72)	Fluorene	0.000		0	N.D. d		
73)	4-Chlorophenyl-phenyle...	0.000		0	N.D. d		
74)	Diethylphthalate	0.000		0	N.D. d		
75)	4-Nitroaniline	0.000		0	N.D.		
76)	Atrazine	0.000		0	N.D.		
78)	4,6-Dinitro-2-methylph...	0.000		0	N.D.		
79)	n-Nitrosodiphenylamine	0.000		0	N.D. d		
81)	1,2-Diphenylhydrazine	0.000		0	N.D. d		
82)	4-Bromophenyl-phenylether	0.000		0	N.D.		
83)	Hexachlorobenzene	0.000		0	N.D. d		
84)	N-Octadecane	0.000		0	N.D. d		
85)	Pentachlorophenol	0.000		0	N.D. d		
86)	Phenanthrene	0.000		0	N.D. d		
87)	Anthracene	0.000		0	N.D. d		
88)	Carbazole	0.000		0	N.D. d		
89)	Di-n-butylphthalate	10.336	149	3524	0.6628	ng	90
90)	Fluoranthene	0.000		0	N.D. d		
92)	Pyrene	0.000		0	N.D. d		
93)	Benzidine	0.000		0	N.D.		
95)	4,4'-DDE	0.000		0	N.D. d		
96)	4,4'-DDD	0.000		0	N.D. d		
97)	Butylbenzylphthalate	0.000		0	N.D. d		
98)	4,4'-DDT	0.000		0	N.D. d		
99)	3,3'-Dichlorobenzidine	0.000		0	N.D. d		
100)	Benzo[a]anthracene	0.000		0	N.D. d		
101)	Chrysene	0.000		0	N.D. d		
102)	bis(2-Ethylhexyl)phtha...	0.000		0	N.D. d		
104)	Di-n-octylphthalate	0.000		0	N.D. d		
105)	Benzo[b]fluoranthene	0.000		0	N.D. d		
106)	Benzo[k]fluoranthene	0.000		0	N.D. d		
107)	Benzo[a]pyrene	0.000		0	N.D. d		
108)	Indeno[1,2,3-cd]pyrene	0.000		0	N.D. d		
109)	Dibenzo[a,h]anthracene	0.000		0	N.D. d		
110)	Benzo[g,h,i]perylene	0.000		0	N.D. d		

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M122395.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@0.5PPM
Data File: 9M122395.D
Acq On : 06/21/23 14:21
Operator : AH/JB
Sam Mult : 1 Vial# : 9
Misc : A,BNA
Qt Meth : 9M_0621.M
Qt On : 06/21/23 14:38
Qt Upd On: 06/21/23 14:36
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Chrysene-d12,I
Perylene-d12,I
1,4-Dioxane-d8(INT),I
2-Methylphenol,P
2,4-Dimethylphenol,P
2,4-Dichlorophenol,P
Dibenzofuran,P
Di-n-butylphthalate,P
Time-->

3061429 0458

Form 6
Initial Calibration

Method: EPA 8270E

Instrument: GCMS_5

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	5M124264.D	CAL BNA@50PPM	06/21/23 15:27	2	5M124256.D	CAL BNA@2PPM	06/21/23 12:17
3	5M124257.D	CAL BNA@10PPM	06/21/23 12:41	4	5M124262.D	CAL BNA@20PPM	06/21/23 14:39
5	5M124261.D	CAL BNA@80PPM	06/21/23 14:16	6	5M124260.D	CAL BNA@120PPM	06/21/23 13:52
7	5M124259.D	CAL BNA@160PPM	06/21/23 13:28	8	5M124258.D	CAL BNA@196PPM	06/21/23 13:04
9	5M124263.D	CAL BNA@0.5PPM	06/21/23 15:03				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1.4-Dioxane	1	0	Avg	0.9854	1.4635	1.1146	0.9873	0.9973	0.9581	0.9891	1.0801	0.9644	1.06	2.39	0.995	0.998	15		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	2.0753	2.4083	1.8808	2.0122	2.1150	2.1175	2.1623	2.2722	-----	2.13	2.81	0.998	1.00	7.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.5705	1.8323	1.4382	1.5073	1.6074	1.5970	1.6242	1.7283	-----	1.61	2.76	0.998	0.999	7.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	1.6988	1.9741	1.5380	1.6692	1.7472	1.7567	1.8018	1.8999	-----	1.76	4.43	0.998	1.00	7.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	1.4946	1.8416	1.4016	1.4737	1.5255	1.5085	1.5078	1.5927	-----	1.54	5.27	0.998	0.999	8.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	2.3963	2.7321	2.2711	2.3945	2.4254	2.3883	2.4731	2.6187	2.6694	2.49	5.36	0.998	1.00	6.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.6573	0.8807	0.6280	0.6631	0.6563	0.6533	0.6712	0.6994	-----	0.689	5.40	0.998	1.00	12	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	1.7862	2.3777	1.7686	1.8189	1.8077	1.8098	1.8736	1.8385	2.3873	1.94	5.42	1.00	1.00	13	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	2.0807	2.4117	1.9537	2.0360	2.1527	2.1318	2.1696	2.2998	-----	2.15	5.34	0.998	0.999	6.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	2.4673	3.0348	2.3856	2.4794	2.5911	2.5194	2.6137	2.7585	-----	2.61	5.35	0.998	1.00	7.9	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	1.8086	2.2572	1.7483	1.8296	1.8592	1.8312	1.8587	1.9320	-----	1.89	5.46	0.999	1.00	8.3	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	1.9326	2.5055	1.8497	1.8997	1.9397	1.8548	1.9097	2.0004	-----	1.99	5.50	0.998	0.999	11	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.3-Dichlorobenzene	1	0	Avg	2.0667	2.7648	2.0635	2.0651	2.0860	2.0526	2.1042	2.1872	-----	2.17	5.59	0.999	1.00	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.4-Dichlorobenzene	1	0	Avg	1.4984	1.9792	1.4288	1.4215	1.5058	1.4847	1.5790	1.6792	-----	1.57	5.66	0.996	0.999	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.2-Dichlorobenzene	1	0	Avg	1.3892	1.8270	1.3570	1.3481	1.4224	1.3867	1.4889	1.6065	-----	1.48	5.78	0.994	0.999	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.8437	0.8915	0.7382	0.8082	0.8769	0.8715	0.9277	1.0088	-----	0.871	5.76	0.993	0.999	9.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.5165	2.1375	1.5506	1.5232	1.5357	1.4802	1.5404	1.6408	-----	1.62	5.87	0.998	0.999	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.1311	1.3625	1.0733	1.0909	1.1783	1.1663	1.2447	1.3584	1.1981	1.20	5.85	0.993	0.999	8.7	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.7294	1.9631	1.5887	1.6152	1.7536	1.7667	1.8045	1.8443	-----	1.76	5.98	0.999	1.00	6.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5221	0.6796	0.5065	0.5098	0.5362	0.5347	0.5724	0.6103	-----	0.559	6.06	0.995	0.999	11	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	0.9005	0.9978	0.7915	0.8341	0.9107	0.9022	0.9288	0.9278	1.0041	0.911	5.98	1.00	1.00	7.5	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.2573	1.3835	1.1097	1.1815	1.2749	1.2805	1.3188	1.3530	1.1780	1.26	5.98	0.999	1.00	7.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1611	0.1844	0.1462	0.1503	0.1650	0.1692	0.1772	0.1843	-----	0.167	6.10	0.997	1.00	8.6		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3650	0.4554	0.3404	0.3480	0.3676	0.3661	0.3878	0.4102	-----	0.380	6.11	0.996	0.999	9.9	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6691	0.7228	0.5985	0.6263	0.6907	0.6819	0.7112	0.7651	-----	0.683	6.30	0.996	0.999	7.8	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.1848	0.1837	0.1539	0.1707	0.1949	0.1971	0.2134	0.2278	-----	0.191	6.36	0.993	1.00	12	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2.4-Dimethylphenol	1	0	Avg	0.3400	0.3905	0.3096	0.3194	0.3378	0.3499	0.3802	0.4004	0.3589	0.354	6.39	0.994	1.00	8.8	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.2104	-----	0.1145	0.1630	0.2504	0.2586	0.2840	0.2991	-----	0.226	6.46	0.995	1.00	30		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.4189	0.4979	0.3766	0.3940	0.4188	0.4206	0.4429	0.4758	-----	0.431	6.46	0.995	0.999	9.4	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2.4-Dichlorophenol	1	0	Avg	0.3061	0.3268	0.2635	0.2831	0.3130	0.3140	0.3334	0.3540	0.3012	0.311	6.54	0.996	1.00	8.6	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1.2.4-Trichlorobenzen	1	0	Avg	0.3481	0.4312	0.3285	0.3262	0.3447	0.3492	0.3710	0.4041	-----	0.363	6.61	0.993	0.999	10		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	1.1094	1.3628	1.0068	1.0097	1.1019	1.0593	1.1202	1.1767	1.4114	1.15	6.67	0.997	0.999	13	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.3735	0.4093	0.3367	0.3530	0.3740	0.3581	0.3562	0.3467	0.3788	0.365	6.71	0.999	1.00	5.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1979	0.2512	0.1869	0.1828	0.2008	0.1980	0.2151	0.2273	-----	0.208	6.76	0.995	0.999	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.0982	0.0827	0.0779	0.0904	0.0997	0.1028	0.1100	0.1172	-----	0.0974	6.98	0.995	1.00	14	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2801	0.2749	0.2417	0.2607	0.2875	0.2916	0.3114	0.3366	-----	0.286	7.07	0.994	1.00	10	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.7108	0.8358	0.6472	0.6509	0.7156	0.7011	0.7531	0.7931	-----	0.726	7.20	0.996	0.999	9.0	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6562	0.7903	0.5960	0.6146	0.6672	0.6582	0.7050	0.7353	-----	0.678	7.28	0.997	1.00	9.4	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Avg	0.6822	0.8131	0.6215	0.6294	0.6857	0.6792	0.7332	0.7638	-----	0.701	7.20	0.996	1.00	9.3		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1.1'-Biphenyl	1	0	Avg	0.8831	1.0544	0.8164	0.8167	0.8880	0.8783	0.9324	0.9921	-----	0.908	7.56	0.996	0.999	9.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1.2.4.5-Tetrachloroben	1	0	Avg	0.6269	0.7848	0.5823	0.5973	0.6205	0.6315	0.6838	0.7106	-----	0.655	7.32	0.996	1.00	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Avg Rsd: 10.58

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note:

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

3061429 0459

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_5

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	5M124264.D	CAL BNA@50PPM	06/21/23 15:27	2	5M124256.D	CAL BNA@2PPM	06/21/23 12:17
3	5M124257.D	CAL BNA@10PPM	06/21/23 12:41	4	5M124262.D	CAL BNA@20PPM	06/21/23 14:39
5	5M124261.D	CAL BNA@80PPM	06/21/23 14:16	6	5M124260.D	CAL BNA@120PPM	06/21/23 13:52
7	5M124259.D	CAL BNA@160PPM	06/21/23 13:28	8	5M124258.D	CAL BNA@196PPM	06/21/23 13:04
9	5M124263.D	CAL BNA@0.5PPM	06/21/23 15:03				

Compound	Col	Mr	Fit	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Qua	0.2628	0.1843	0.1896	0.2141	0.2690	0.2828	0.3061	0.3315	-----	0.255	7.31	0.992	1.00	21	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.3880	0.3792	0.3371	0.3545	0.3875	0.4033	0.4372	0.4635	-----	0.394	7.41	0.994	1.00	10	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.4146	0.4232	0.3626	0.3836	0.4151	0.4297	0.4575	0.4921	-----	0.422	7.45	0.994	1.00	9.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.3750	1.6606	1.3240	1.2976	1.3596	1.3906	1.4864	1.5558	-----	1.43	7.48	0.996	1.00	8.8		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.1849	1.3813	1.1059	1.1120	1.1694	1.2005	1.2954	1.3491	-----	1.22	7.58	0.996	1.00	8.6	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	0.9994	1.1721	0.9086	0.9207	0.9804	1.0237	1.0686	1.1105	-----	1.02	7.86	0.997	1.00	8.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	0.9994	1.1721	0.9086	0.9207	0.9804	1.0237	1.0686	1.1105	-----	1.02	7.86	0.997	1.00	8.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8177	0.9815	0.7676	0.7869	0.7997	0.8169	0.8807	0.9410	-----	0.849	7.65	0.994	0.999	9.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.3745	0.3579	0.3121	0.3435	0.3636	0.3720	0.3929	0.4190	-----	0.367	7.67	0.995	0.999	8.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4845	0.5220	0.4447	0.4545	0.4704	0.5019	0.5347	0.5495	-----	0.495	7.85	0.996	1.00	7.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.6785	1.8753	1.5782	1.5850	1.6319	1.6771	1.7894	1.8880	-----	1.71	7.94	0.995	1.00	7.2	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.2829	1.4378	1.1795	1.1978	1.2605	1.2980	1.3583	1.4602	-----	1.31	7.81	0.995	0.999	7.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.2956	0.2852	0.2495	0.2743	0.2903	0.3001	0.3201	0.3304	-----	0.293	7.87	0.997	1.00	8.6	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.1542	1.4064	1.0932	1.1091	1.1346	1.1992	1.2666	1.3217	-----	1.21	8.09	0.996	1.00	9.2	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3065	0.2760	0.2684	0.2847	0.2953	0.2956	0.3007	0.3010	-----	0.291	8.01	1.00	1.00	4.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1246	-----	0.0629	0.0914	0.1453	0.1598	0.1782	0.1910	-----	0.136	8.11	0.991	1.00	34	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.6521	2.1300	1.5770	1.5706	1.6367	1.6718	1.7646	1.8662	2.1528	1.78	8.24	0.996	1.00	13	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Avg	0.3753	0.3028	0.3046	0.3419	0.3725	0.3894	0.4192	0.4519	-----	0.370	8.22	0.993	1.00	14	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Avg	0.2076	0.1542	0.1528	0.1843	0.2119	0.2279	0.2330	0.2528	-----	0.203	8.15	0.995	0.999	18	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3427	0.3084	0.2829	0.3177	0.3409	0.3518	0.3875	0.4109	-----	0.343	8.34	0.993	0.999	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.3650	1.5822	1.2281	1.2791	1.3587	1.4048	1.4763	1.5793	-----	1.41	8.56	0.995	1.00	9.2	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.6691	0.8048	0.6058	0.6149	0.6743	0.6948	0.7433	0.8010	-----	0.701	8.55	0.993	1.00	11	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.2094	1.3539	1.0834	1.1172	1.1976	1.2555	1.3307	1.4355	-----	1.25	8.43	0.994	1.00	9.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.3267	0.2739	0.2693	0.3054	0.3250	0.3392	0.3574	0.3737	-----	0.321	8.57	0.997	1.00	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.3591	0.3074	0.2885	0.3267	0.3535	0.3713	0.4003	0.4235	-----	0.354	9.19	0.994	1.00	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.1040	-----	0.0665	0.0833	0.1134	0.1224	0.1313	0.1392	-----	0.109	8.59	0.995	1.00	24	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6131	0.6715	0.5508	0.5649	0.6017	0.6285	0.6771	0.7036	-----	0.626	8.66	0.995	1.00	8.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Avg	0.0982	0.0937	0.0791	0.0841	0.0998	0.1048	0.1130	0.1194	-----	0.0991	8.79	0.994	1.00	14		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.6884	0.8329	0.6775	0.7047	0.7375	0.7815	0.8114	0.8431	-----	0.760	8.70	0.996	1.00	8.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2100	0.2400	0.1860	0.1901	0.2090	0.2193	0.2350	0.2501	-----	0.217	9.03	0.994	1.00	11	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2298	0.2802	0.2113	0.2118	0.2209	0.2338	0.2457	0.2614	-----	0.237	9.09	0.995	1.00	10	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.3355	0.3052	0.2758	0.2911	0.3217	0.3438	0.3607	0.3789	-----	0.327	9.36	0.996	1.00	11	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Qua	0.1232	-----	0.0732	0.0953	0.1337	0.1432	0.1595	0.1674	-----	0.128	9.29	0.993	1.00	27	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.0491	1.2903	1.0012	0.9720	1.0424	1.0959	1.1600	1.2013	-----	1.10	9.52	0.996	1.00	9.8	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.0760	1.1782	0.9911	0.9771	1.0709	1.1188	1.1510	1.2278	-----	1.10	9.58	0.996	1.00	8.0	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	0.9981	1.0703	0.8913	0.8876	0.9928	1.0368	1.0925	1.1425	-----	1.01	9.75	0.997	1.00	9.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Avg	1.1339	0.9996	0.9056	0.9955	1.1656	1.2365	1.3204	1.3793	0.8798	1.11	10.13	0.995	1.00	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.1923	1.1871	1.0192	1.0648	1.1975	1.2738	1.3194	1.3358	-----	1.20	10.85	0.998	1.00	9.4	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.3275	1.4899	1.1994	1.2346	1.3086	1.3912	1.3993	1.4706	-----	1.35	11.11	0.998	1.00	7.7	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Avg	0.5440	0.4193	0.3750	0.4638	0.5446	0.5638	0.5526	0.5754	-----	0.505	11.01	0.999	0.999	15		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.7158	0.8723	0.6643	0.6841	0.7059	0.7539	0.7578	0.8451	-----	0.750	11.30	0.993	0.998	9.9		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 10.58
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_5

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	5M124264.D	CAL BNA@50PPM	06/21/23 15:27	2	5M124256.D	CAL BNA@2PPM	06/21/23 12:17
3	5M124257.D	CAL BNA@10PPM	06/21/23 12:41	4	5M124262.D	CAL BNA@20PPM	06/21/23 14:39
5	5M124261.D	CAL BNA@80PPM	06/21/23 14:16	6	5M124260.D	CAL BNA@120PPM	06/21/23 13:52
7	5M124259.D	CAL BNA@160PPM	06/21/23 13:28	8	5M124258.D	CAL BNA@196PPM	06/21/23 13:04
9	5M124263.D	CAL BNA@0.5PPM	06/21/23 15:03				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2692	0.2915	0.2358	0.2506	0.2609	0.2885	0.3037	0.3278	-----	0.279	11.23	0.992	1.00	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4907	0.4465	0.4108	0.4464	0.4860	0.5189	0.5294	0.5828	-----	0.489	11.63	0.994	0.999	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Avg	0.5228	0.4058	0.3887	0.4500	0.5245	0.5723	0.5987	0.6316	-----	0.512	11.89	0.996	1.00	17	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.4014	0.3312	0.3115	0.3492	0.4015	0.4235	0.4420	0.4782	-----	0.392	11.99	0.994	0.999	15		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Avg	0.3645	0.3710	0.2824	0.3357	0.3743	0.4042	0.4078	0.4027	-----	0.368	12.51	0.999	0.999	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.2625	1.4560	1.1111	1.1826	1.2155	1.2950	1.3350	1.4037	-----	1.28	12.53	0.997	1.00	8.9	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.1579	1.3813	1.0957	1.0952	1.1373	1.2287	1.2387	1.3097	-----	1.21	12.57	0.997	1.00	8.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Avg	0.7320	0.5640	0.5514	0.6406	0.7441	0.8152	0.8526	0.8908	-----	0.724	12.59	0.996	1.00	18	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Qua	1.2592	0.8085	0.8274	1.0269	1.2966	1.3848	1.5090	1.6339	-----	1.22	13.33	0.991	1.00	25	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.2519	1.2296	1.0190	1.0722	1.1768	1.2082	1.3102	1.4847	-----	1.22	13.74	0.990	0.998	12	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.0634	1.2774	1.1235	1.1488	1.2219	1.2429	1.2306	1.3814	-----	1.21	13.77	0.993	0.998	8.2	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.0734	1.0365	0.8767	0.9621	1.0591	1.1012	1.1720	1.2759	-----	1.07	14.08	0.993	0.999	11	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.3489	1.2651	1.0985	1.1597	1.3072	1.3913	1.4778	1.6290	-----	1.33	15.37	0.992	0.999	13	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.1096	1.0111	0.9175	0.9562	1.0807	1.1475	1.2087	1.3443	-----	1.10	15.40	0.991	0.999	13	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	1.0805	1.1292	0.9408	0.9367	1.0446	1.0796	1.1588	1.2463	-----	1.08	15.72	0.993	0.999	9.8	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 10.58
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124264.D Sam Mult : 1 Vial# : 10 Qt On : 06/21/23 15:43
Acq On : 06/21/23 15:27 Misc : A,BNA Qt Upd On: 05/11/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.355	96	52985	40.00	ng	-0.05
21) 1,4-Dichlorobenzene-d4	5.640	152	74399	40.00	ng	-0.03
31) Naphthalene-d8	6.655	136	250978	40.00	ng	-0.03
50) Acenaphthene-d10	8.055	164	139070	40.00	ng	-0.04
77) Phenanthrene-d10	9.498	188	254424	40.00	ng	-0.04
91) Chrysene-d12	12.543	240	237728	40.00	ng	-0.04
103) Perylene-d12	14.140	264	226792	40.00	ng	-0.05
System Monitoring Compounds						
11) 2-Fluorophenol	4.433	112	112518	48.07	ng	-0.05
Spiked Amount 100.000			Recovery = 48.07%			
16) Phenol-d5	5.336	99	137812	47.23	ng	-0.04
Spiked Amount 100.000			Recovery = 47.23%			
32) Nitrobenzene-d5	6.100	128	25279	23.77	ng	-0.03
Spiked Amount 50.000			Recovery = 47.54%			
55) 2-Fluorobiphenyl	7.478	172	119518	24.16	ng	-0.03
Spiked Amount 50.000			Recovery = 48.32%			
80) 2,4,6-Tribromophenol	8.787	330	31252	48.07	ng	-0.04
Spiked Amount 100.000			Recovery = 48.07%			
94) Terphenyl-d14	11.298	244	106360	23.67	ng	-0.04
Spiked Amount 50.000			Recovery = 47.34%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.387	88	65270	43.8216	ng	100
9) Pyridine	2.814	79	137451	47.3871	ng	65
10) N-Nitrosodimethylamine	2.756	74	104020	48.3985	ng	74
12) Benzaldehyde	5.266	77	98993	48.7860	ng	76
13) Aniline	5.363	93	158710	44.0424	ng	60
14) Pentachloroethane	5.400	117	43538	48.5227	ng	74
15) bis(2-Chloroethyl)ether	5.421	93	118305	46.8436	ng	81
17) Phenol	5.347	94	163417	45.1914	ng	81
18) 2-Chlorophenol	5.464	128	119792	46.8937	ng	78
19) N-Decane	5.502	57	128001m	47.0038	ng	
20) 1,3-Dichlorobenzene	5.592	146	136883m	47.3102	ng	
22) 1,4-Dichlorobenzene	5.656	146	139350	46.2333	ng	97
23) 1,2-Dichlorobenzene	5.779	146	129194	45.8776	ng	97
24) Benzyl alcohol	5.763	108	78466	46.4837	ng	69
25) bis(2-chloroisopropyl)...	5.870	45	141035	42.0000	ng	100
26) 2-Methylphenol	5.854	108	105196	45.6695	ng	97
27) Acetophenone	5.977	105	160839	50.8881	ng	71
28) Hexachloroethane	6.057	117	48561	45.4483	ng	90
29) N-Nitroso-di-n-propyla...	5.977	70	83746	49.0671	ng	73
30) 3&4-Methylphenol	5.982	108	116929	49.5925	ng	99
33) Nitrobenzene	6.111	77	114521	47.8154	ng	82
34) Isophorone	6.298	82	209918	48.1651	ng	91
35) 2-Nitrophenol	6.362	139	57982	47.6099	ng	82
36) 2,4-Dimethylphenol	6.394	107	106677	48.0385	ng	90
37) Benzoic Acid	6.463	105	66027	45.3866	ng	87
38) bis(2-Chloroethoxy)met...	6.463	93	131432	47.9959	ng	97
39) 2,4-Dichlorophenol	6.543	162	96047	49.3120	ng	86
40) 1,2,4-Trichlorobenzene	6.607	180	109236	47.8471	ng	96
41) Naphthalene	6.671	128	348051	49.3502	ng	99
42) 4-Chloroaniline	6.709	127	117187	47.4786	ng	95
43) Hexachlorobutadiene	6.757	225	62093	49.0421	ng	97
44) Caprolactam	6.976	113	30818	49.3735	ng	69
45) 4-Chloro-3-methylphenol	7.072	107	87902	47.6919	ng	75
46) 2-Methylnaphthalene	7.195	142	223011	48.1177	ng	99
47) 1-Methylnaphthalene	7.275	142	205881	47.7979	ng	92
48) Methylnaphthalenes (To...	7.195	142	428086m	95.4500	ng	
49) 1,1'-Biphenyl	7.564	154	277075	49.2575	ng	94
51) 1,2,4,5-Tetrachloroben...	7.323	216	108990	49.9878	ng	98
52) Hexachlorocyclopentadiene	7.313	237	45685	45.0837	ng	97
53) 2,4,6-Trichlorophenol	7.414	196	67461	48.3693	ng	99
54) 2,4,5-Trichlorophenol	7.446	196	72085	48.1872	ng	100
56) 2-Chloronaphthalene	7.585	162	205994	48.0748	ng	89
57) 1,4-Dimethylnaphthalene	7.863	156	173741	50.1099	ng	85
58) Dimethylnaphthalenes (...	7.863	156	173741	50.1099	ng	85
59) Diphenyl Ether	7.649	170	142152	49.0583	ng	73
60) 2-Nitroaniline	7.665	65	65115	48.2646	ng	58
61) Coumarin	7.847	146	84229	50.5239	ng	95
62) Acenaphthylene	7.938	152	291794	48.3468	ng	99
63) Dimethylphthalate	7.809	163	223017	47.7081	ng	99
64) 2,6-Dinitrotoluene	7.868	165	51401	48.6965	ng	57
65) Acenaphthene	8.087	153	200656	46.5567	ng	97

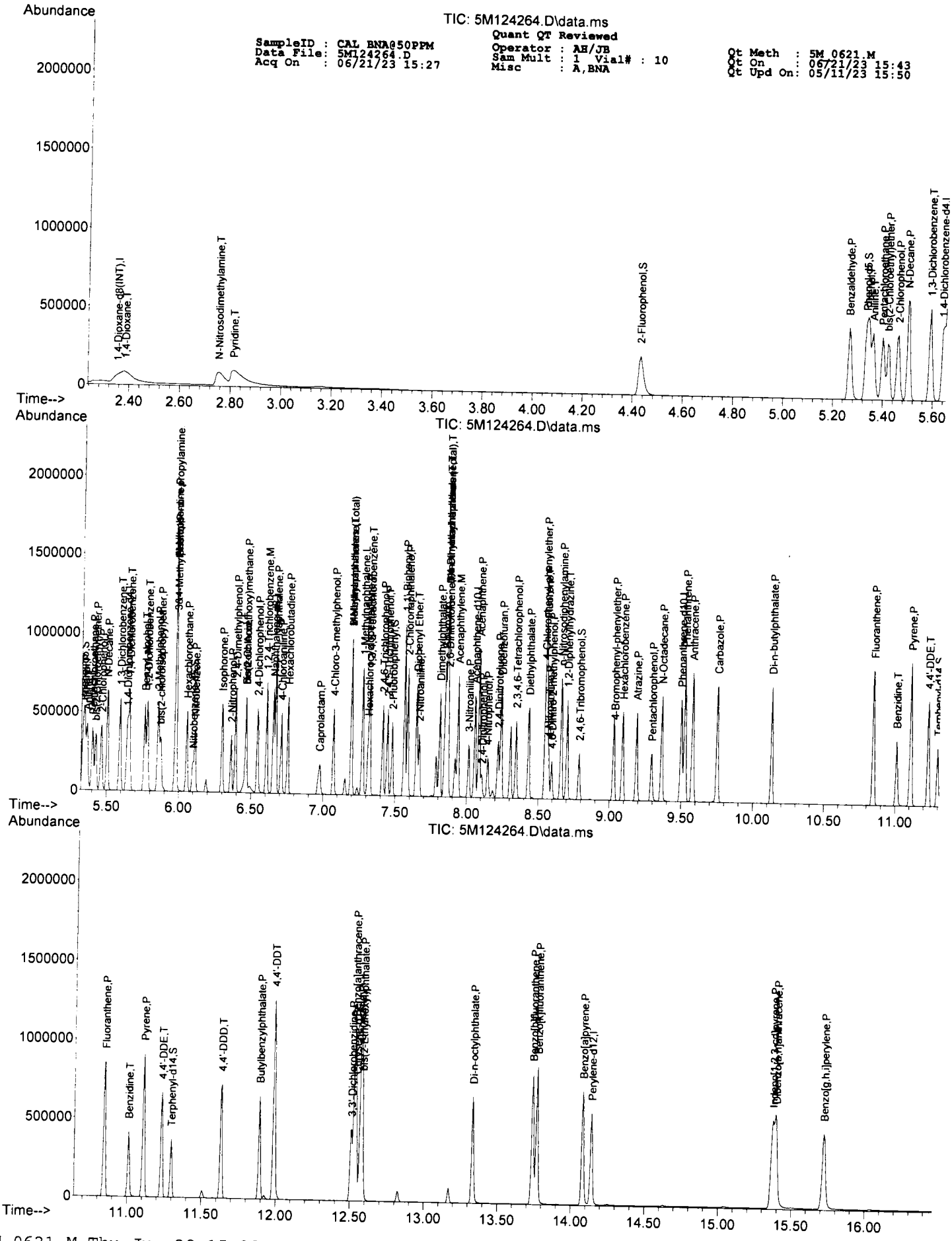
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM
Data File: 5M124264.D
Acq On : 06/21/23 15:27
Operator : AH/JB
Sam Mult : 1 Vial# : 10
Misc : A,BNA
Qt Meth : 5M_0621.M
Qt On : 06/21/23 15:43
Qt Upd On: 05/11/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.012	138	53289	49.0976	ng	77
67)	2,4-Dinitrophenol	8.109	184	21675	49.2036	ng	26
68)	Dibenzofuran	8.242	168	287202	47.0271	ng	81
69)	2,4-Dinitrotoluene	8.221	165	65257	48.2623	ng	59
70)	4-Nitrophenol	8.146	65	36101	48.8759	ng	95
71)	2,3,4,6-Tetrachlorophenol	8.344	232	59589	49.7050	ng	82
72)	Fluorene	8.557	166	237303	48.3173	ng	100
73)	4-Chlorophenyl-phenyle...	8.547	204	116326	48.6583	ng	82
74)	Diethylphthalate	8.434	149	210240	47.4613	ng	96
75)	4-Nitroaniline	8.573	138	56809	47.3176	ng	72
76)	Atrazine	9.188	200	62436	48.7705	ng	94
78)	4,6-Dinitro-2-methylph...	8.595	198	33090	46.1593	ng	69
79)	n-Nitrosodiphenylamine	8.659	169	194984	47.3837	ng	100
81)	1,2-Diphenylhydrazine	8.702	77	218960	44.8870	ng	83
82)	4-Bromophenyl-phenylether	9.033	248	66807	46.4156	ng	75
83)	Hexachlorobenzene	9.091	284	73093	47.8467	ng	62
84)	N-Octadecane	9.364	57	106726	47.1867	ng	73
85)	Pentachlorophenol	9.294	266	39191	50.1003	ng	99
86)	Phenanthrene	9.524	178	333660	45.8557	ng	99
87)	Anthracene	9.578	178	342199	46.8783	ng	99
88)	Carbazole	9.754	167	317431	47.2549	ng	96
89)	Di-n-butylphthalate	10.133	149	360638	48.0848	ng	97
90)	Fluoranthene	10.849	202	379191	47.7683	ng	88
92)	Pyrene	11.111	202	394504	48.6209	ng	86
93)	Benzidine	11.009	184	161669	41.3681	ng	88
95)	4,4'-DDE	11.234	246	80007	46.9332	ng	95
96)	4,4'-DDD	11.634	235	145843	48.1752	ng	97
97)	Butylbenzylphthalate	11.891	149	155374	47.1610	ng	70
98)	4,4'-DDT	11.987	235	119287	49.4179	ng	100
99)	3,3'-Dichlorobenzidine	12.511	252	108340	43.6405	ng	95
100)	Benzo[a]anthracene	12.532	228	375165	47.7915	ng	99
101)	Chrysene	12.569	228	344104	47.9052	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.585	149	217524	47.1893	ng	93
104)	Di-n-octylphthalate	13.333	149	356987	45.0473	ng	99
105)	Benzo[b]fluoranthene	13.739	252	354908	47.2520	ng	97
106)	Benzo[k]fluoranthene	13.771	252	301484	42.0484	ng	92
107)	Benzo[a]pyrene	14.081	252	304300	47.5350	ng	92
108)	Indeno[1,2,3-cd]pyrene	15.374	276	382415	47.5026	ng	80
109)	Dibenzo[a,h]anthracene	15.395	278	314560	47.3262	ng	95
110)	Benzo[g,h,i]perylene	15.721	276	306319	47.4290	ng	75

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 5M124264.D\data.ms
SampleID : CAL BNA@50PPM
Data File: 5M124264.D
Acq On : 06/21/23 15:27
Quant QT Reviewed
Operator : AH/JB
Sam Mult : 1 Vial# : 10
Misc : A,BNA
Qt Meth : 5M_0621.M
Qt On : 06/21/23 15:43
Qt Upd On: 05/11/23 15:50
Abundance
Time-->
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Aniline,P
bis(2-Chloroethyl)ether,P
2-Chlorophenol,P
N-Decane,P
1,3-Dichlorobenzene,T
1,4-Dichlorobenzene-d4,I
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
2-Nitrophenol,P
2,4-Dichlorophenol,P
1,2,4-Trichlorobenzene,M
Naphthalene,P
4-Chloroaniline,P
Hexachlorobutadiene,P
Dimethylphthalate,P
Acenaphthylene,M
3-Nitroaniline,P
Acenaphthene,P
2,4-Dinitrophenol,P
Dibenzofuran,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
Butylbenzylphthalate,P
4,4'-DDD,T
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@2PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124256.D Sam Mult : 1 Vial# : 2 Qt On : 06/21/23 12:34
Acq On : 06/21/23 12:17 Misc : A,BNA Qt Upd On: 05/11/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.355	96	47120	40.00	ng	-0.05
21) 1,4-Dichlorobenzene-d4	5.640	152	68330	40.00	ng	-0.03
31) Naphthalene-d8	6.650	136	244363	40.00	ng	-0.03
50) Acenaphthene-d10	8.055	164	138111	40.00	ng	-0.04
77) Phenanthrene-d10	9.497	188	248753	40.00	ng	-0.04
91) Chrysene-d12	12.537	240	223754	40.00	ng	-0.05
103) Perylene-d12	14.140	264	222201	40.00	ng	-0.05
System Monitoring Compounds						
11) 2-Fluorophenol	4.433	112	4651m	2.23	ng	-0.05
Spiked Amount 100.000			Recovery = 2.23%			
16) Phenol-d5	5.336	99	5682	2.19	ng	-0.04
Spiked Amount 100.000			Recovery = 2.19%			
32) Nitrobenzene-d5	6.100	128	1127	1.09	ng	-0.03
Spiked Amount 50.000			Recovery = 2.18%			
55) 2-Fluorobiphenyl	7.478	172	5734	1.17	ng	-0.03
Spiked Amount 50.000			Recovery = 2.34%			
80) 2,4,6-Tribromophenol	8.787	330	1166	1.83	ng	-0.04
Spiked Amount 100.000			Recovery = 1.83%			
94) Terphenyl-d14	11.298	244	4880	1.15	ng	-0.04
Spiked Amount 50.000			Recovery = 2.30%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.392	88	3448	2.6031	ng	94
9) Pyridine	2.884	79	5674	2.1996	ng	71
10) N-Nitrosodimethylamine	2.782	74	4317	2.2586	ng	77
12) Benzaldehyde	5.266	77	4339	2.4045	ng	81
13) Aniline	5.363	93	6437m	2.0086	ng	
14) Pentachloroethane	5.400	117	2075	2.6004	ng	72
15) bis(2-Chloroethyl)ether	5.421	93	5602	2.4942	ng	80
17) Phenol	5.346	94	7150	2.2234	ng	82
18) 2-Chlorophenol	5.464	128	5318	2.3409	ng	79
19) N-Decane	5.501	57	5903	2.4375	ng	95
20) 1,3-Dichlorobenzene	5.592	146	6514m	2.5316	ng	
22) 1,4-Dichlorobenzene	5.656	146	6762	2.4427	ng	96
23) 1,2-Dichlorobenzene	5.779	146	6242	2.4134	ng	97
24) Benzyl alcohol	5.763	108	3046	1.9647	ng	77
25) bis(2-chloroisopropyl)...	5.870	45	7303	2.3680	ng	88
26) 2-Methylphenol	5.854	108	4655	2.2004	ng	96
27) Acetophenone	5.977	105	6707	2.3105	ng	75
28) Hexachloroethane	6.057	117	2322	2.3662	ng	89
29) N-Nitroso-di-n-propyla...	5.977	70	3409	2.1748	ng	72
30) 3&4-Methylphenol	5.982	108	4727	2.1829	ng	97
33) Nitrobenzene	6.110	77	5565	2.3864	ng	84
34) Isophorone	6.297	82	8832	2.0813	ng	93
35) 2-Nitrophenol	6.362	139	2245	1.8933	ng	81
36) 2,4-Dimethylphenol	6.394	107	4772	2.2071	ng	95
37) Benzoic Acid	0.000		0	N.D. d		
38) bis(2-Chloroethoxy)met...	6.463	93	6084	2.2819	ng	97
39) 2,4-Dichlorophenol	6.548	162	3993	2.1056	ng	85
40) 1,2,4-Trichlorobenzene	6.607	180	5269	2.3704	ng	94
41) Naphthalene	6.666	128	16652	2.4250	ng	98
42) 4-Chloroaniline	6.709	127	5001m	2.0810	ng	
43) Hexachlorobutadiene	6.757	225	3070	2.4904	ng	96
44) Caprolactam	6.955	113	1011	1.6636	ng	67
45) 4-Chloro-3-methylphenol	7.067	107	3359	1.8718	ng	86
46) 2-Methylnaphthalene	7.195	142	10213	2.2632	ng	98
47) 1-Methylnaphthalene	7.270	142	9657	2.3027	ng	90
48) Methylnaphthalenes (To...	7.195	142	19870m	4.5503	ng	
49) 1,1'-Biphenyl	7.564	154	12883	2.3523	ng	95
51) 1,2,4,5-Tetrachloroben...	7.323	216	5420	2.5031	ng	98
52) Hexachlorocyclopentadiene	7.312	237	1273	1.2650	ng	88
53) 2,4,6-Trichlorophenol	7.414	196	2619	1.8909	ng	96
54) 2,4,5-Trichlorophenol	7.446	196	2923	1.9675	ng	98
56) 2-Chloronaphthalene	7.585	162	9539	2.2417	ng	90
57) 1,4-Dimethylnaphthalene	7.857	156	8094	2.3507	ng	87
58) Dimethylnaphthalenes (...	7.857	156	8094	2.3507	ng	87
59) Diphenyl Ether	7.649	170	6778	2.3554	ng	68
60) 2-Nitroaniline	7.665	65	2472	1.8450	ng	67
61) Coumarin	7.841	146	3605	2.1774	ng	93
62) Acenaphthylene	7.932	152	12950	2.1606	ng	99
63) Dimethylphthalate	7.804	163	9929	2.1388	ng	97
64) 2,6-Dinitrotoluene	7.863	165	1970	1.8793	ng	73
65) Acenaphthene	8.082	153	9712	2.2690	ng	97

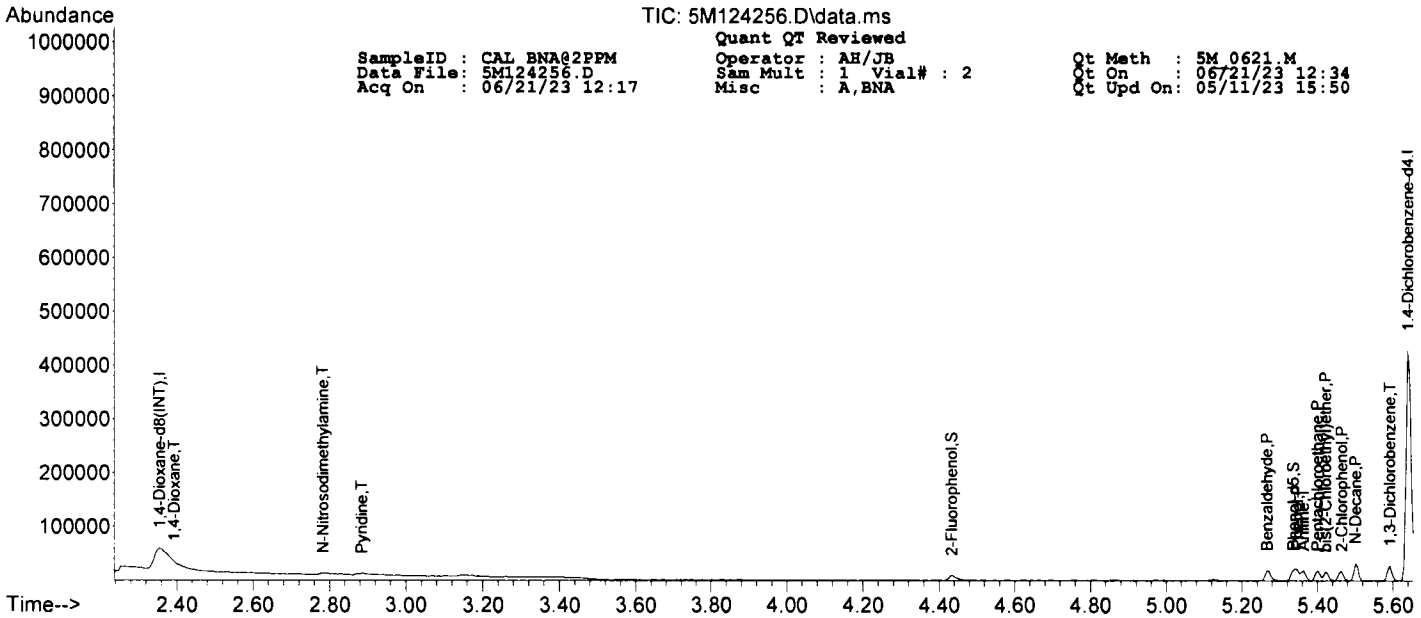
Quantitation Report (QT Reviewed)

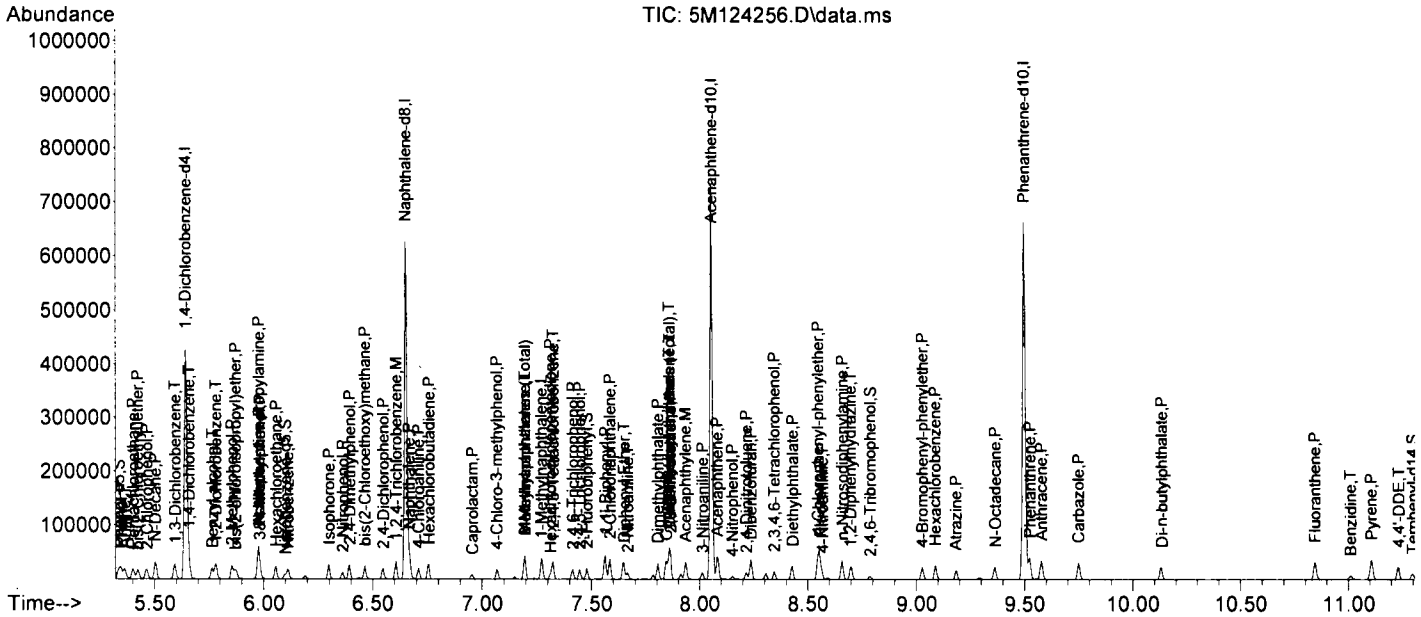
SampleID : CAL BNA@2PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124256.D Sam Mult : 1 Vial# : 2 Qt On : 06/21/23 12:34
Acq On : 06/21/23 12:17 Misc : A,BNA Qt Upd On: 05/11/23 15:50

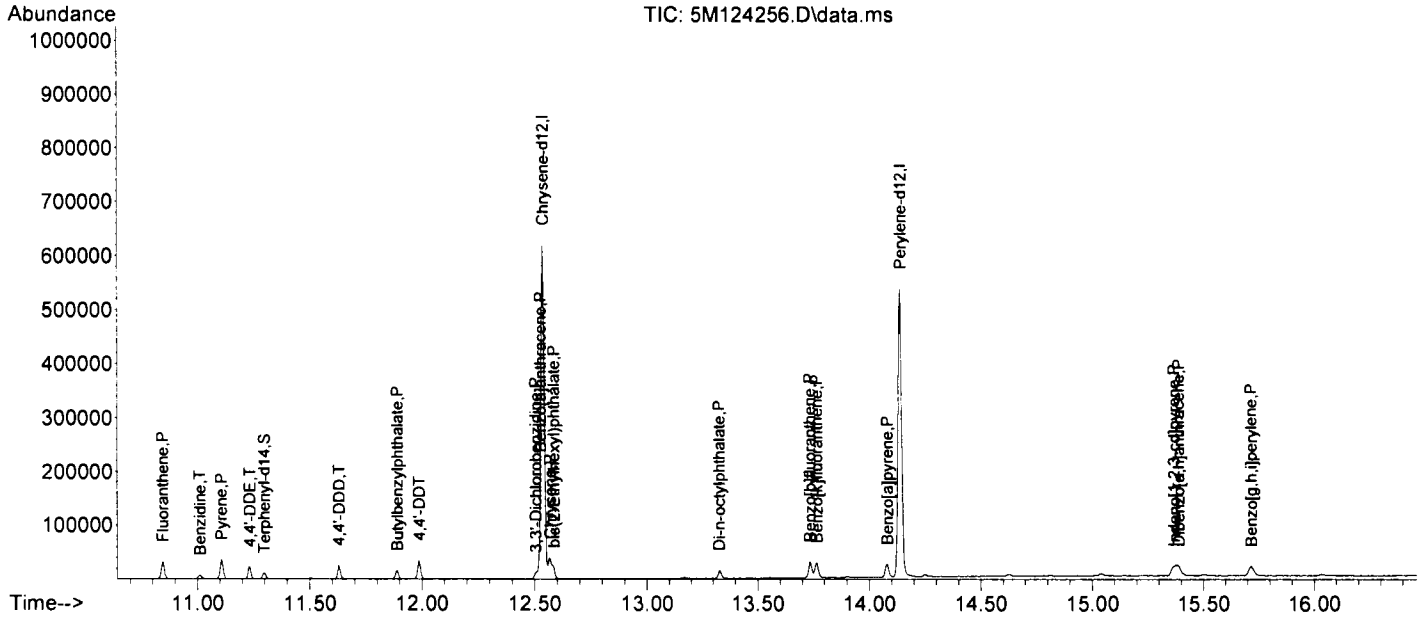
Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.012	138	1906	1.7683	ng	79
67)	2,4-Dinitrophenol	0.000		0	N.D.		
68)	Dibenzofuran	8.237	168	14709	2.4252	ng	79
69)	2,4-Dinitrotoluene	8.215	165	2091	1.5572	ng	73
70)	4-Nitrophenol	8.151	65	1065	1.5982	ng	97
71)	2,3,4,6-Tetrachlorophenol	8.344	232	2130	1.7890	ng	81
72)	Fluorene	8.557	166	10926	2.2401	ng	96
73)	4-Chlorophenyl-phenyle...	8.547	204	5558	2.3410	ng	79
74)	Diethylphthalate	8.429	149	9350	2.1254	ng	98
75)	4-Nitroaniline	8.568	138	1892	1.5868	ng	69
76)	Atrazine	9.182	200	2123	1.6699	ng	87
78)	4,6-Dinitro-2-methylph...	0.000		0	N.D. d		
79)	n-Nitrosodiphenylamine	8.659	169	8353	2.0762	ng	96
81)	1,2-Diphenylhydrazine	8.696	77	10360	2.1722	ng	86
82)	4-Bromophenyl-phenylether	9.027	248	2985	2.1212	ng	79
83)	Hexachlorobenzene	9.086	284	3485	2.3333	ng	68
84)	N-Octadecane	9.364	57	3797	1.7170	ng	73
85)	Pentachlorophenol	0.000		0	N.D. d		
86)	Phenanthrene	9.524	178	16049	2.2559	ng	99
87)	Anthracene	9.578	178	14655	2.0534	ng	99
88)	Carbazole	9.748	167	13312	2.0269	ng	97
89)	Di-n-butylphthalate	10.133	149	12433	1.6955	ng	96
90)	Fluoranthene	10.844	202	14765	1.9024	ng	92
92)	Pyrene	11.105	202	16669	2.1827	ng	85
93)	Benzidine	11.009	184	4692	1.2756	ng	87
95)	4,4'-DDE	11.234	246	3262	2.0330	ng	94
96)	4,4'-DDD	11.629	235	4996	1.7534	ng	95
97)	Butylbenzylphthalate	11.891	149	4541	1.4644	ng	76
98)	4,4'-DDT	11.987	235	3706	1.6312	ng	98
99)	3,3'-Dichlorobenzidine	12.505	252	4151	1.7765	ng	95
100)	Benzo[a]anthracene	12.526	228	16290	2.2047	ng	97
101)	Chrysene	12.569	228	15454	2.2858	ng	98
102)	bis(2-Ethylhexyl)phtha...	12.585	149	6310	1.4544	ng	91
104)	Di-n-octylphthalate	13.328	149	8983	1.1570	ng	100
105)	Benzo[b]fluoranthene	13.734	252	13661m	1.8564	ng	
106)	Benzo[k]fluoranthene	13.766	252	14192	2.0203	ng	89
107)	Benzo[a]pyrene	14.081	252	11516	1.8361	ng	91
108)	Indeno[1,2,3-cd]pyrene	15.369	276	14056	1.7821	ng	77
109)	Dibenzo[a,h]anthracene	15.390	278	11234	1.7251	ng	93
110)	Benzo[g,h,i]perylene	15.716	276	12546	1.9827	ng	73

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M124256.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@2PPM
Data File: 5M124256.D
Acq On : 06/21/23 12:17
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 5M_0621.M
Qt On : 06/21/23 12:34
Qt Upd On: 05/11/23 15:50
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
1,3-Dichlorobenzene,T
1,4-Dichlorobenzene-d4,I
Time-->


Abundance
TIC: 5M124256.D\data.ms
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Isophorone,P
Caprolactam,P
4-Chloro-3-methylphenol,P
Acenaphthene,P
4-Nitrophenol,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
N-Octadecane,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 5M124256.D\data.ms
Chrysene-d12,I
Perylene-d12,I
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@10PPM
Data File: 5M124257.D
Acq On : 06/21/23 12:41
Operator : AH/JB
Sam Mult : 1 Vial# : 3
Misc : A,BNA
Qt Meth : 5M_0621.M
Qt On : 06/21/23 12:58
Qt Upd On: 05/11/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.360	96	46121	40.00	ng	-0.04
21) 1,4-Dichlorobenzene-d4	5.640	152	66413	40.00	ng	-0.03
31) Naphthalene-d8	6.650	136	232816	40.00	ng	-0.03
50) Acenaphthene-d10	8.055	164	129563	40.00	ng	-0.04
77) Phenanthrene-d10	9.498	188	233711	40.00	ng	-0.04
91) Chrysene-d12	12.537	240	210427	40.00	ng	-0.05
103) Perylene-d12	14.140	264	208245	40.00	ng	-0.05
System Monitoring Compounds						
11) 2-Fluorophenol	4.433	112	17734	8.70	ng	-0.05
Spiked Amount 100.000			Recovery = 8.70%			
16) Phenol-d5	5.336	99	22527	8.87	ng	-0.04
Spiked Amount 100.000			Recovery = 8.87%			
32) Nitrobenzene-d5	6.100	128	4255	4.31	ng	-0.03
Spiked Amount 50.000			Recovery = 8.62%			
55) 2-Fluorobiphenyl	7.478	172	21444	4.65	ng	-0.03
Spiked Amount 50.000			Recovery = 9.30%			
80) 2,4,6-Tribromophenol	8.787	330	4623	7.74	ng	-0.04
Spiked Amount 100.000			Recovery = 7.74%			
94) Terphenyl-d14	11.298	244	17474	4.39	ng	-0.04
Spiked Amount 50.000			Recovery = 8.78%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.398	88	12852m	9.9129	ng	
9) Pyridine	2.841	79	21687	8.5895	ng	71
10) N-Nitrosodimethylamine	2.772	74	16583	8.8640	ng	71
12) Benzaldehyde	5.267	77	16161	9.1498	ng	79
13) Aniline	5.363	93	26187	8.3485	ng	60
14) Pentachloroethane	5.400	117	7241	9.2711	ng	70
15) bis(2-Chloroethyl)ether	5.421	93	20393	9.2765	ng	82
17) Phenol	5.347	94	27507	8.7389	ng	80
18) 2-Chlorophenol	5.459	128	20159	9.0659	ng	80
19) N-Decane	5.502	57	21328	8.9975	ng	96
20) 1,3-Dichlorobenzene	5.592	146	23793m	9.4473	ng	
22) 1,4-Dichlorobenzene	5.657	146	23724	8.8176	ng	97
23) 1,2-Dichlorobenzene	5.779	146	22531	8.9630	ng	98
24) Benzyl alcohol	5.763	108	12257	8.1342	ng	72
25) bis(2-chloroisopropyl)...	5.870	45	25746	8.5891	ng	100
26) 2-Methylphenol	5.854	108	17821	8.6671	ng	97
27) Acetophenone	5.977	105	26378	9.3493	ng	73
28) Hexachloroethane	6.057	117	8410	8.8174	ng	88
29) N-Nitroso-di-n-propyla...	5.977	70	13143	8.6265	ng	75
30) 3&4-Methylphenol	5.977	108	18425	8.7542	ng	89
33) Nitrobenzene	6.111	77	19813	8.9178	ng	80
34) Isophorone	6.298	82	34835	8.6163	ng	91
35) 2-Nitrophenol	6.362	139	8962	7.9329	ng	83
36) 2,4-Dimethylphenol	6.394	107	18025	8.7502	ng	92
37) Benzoic Acid	6.436	105	6669	5.4413	ng	83
38) bis(2-Chloroethoxy)met...	6.463	93	21921	8.6295	ng	97
39) 2,4-Dichlorophenol	6.549	162	15341	8.4907	ng	83
40) 1,2,4-Trichlorobenzene	6.607	180	19120	9.0282	ng	94
41) Naphthalene	6.672	128	58604	8.9577	ng	100
42) 4-Chloroaniline	6.709	127	19597	8.5592	ng	93
43) Hexachlorobutadiene	6.757	225	10879	9.2627	ng	99
44) Caprolactam	6.960	113	4539	7.8392	ng	64
45) 4-Chloro-3-methylphenol	7.067	107	14070	8.2293	ng	83
46) 2-Methylnaphthalene	7.195	142	37671	8.7621	ng	100
47) 1-Methylnaphthalene	7.270	142	34690	8.6820	ng	89
48) Methylnaphthalenes (To...	7.195	142	72357m	17.3919	ng	
49) 1,1'-Biphenyl	7.564	154	47519	9.1068	ng	95
51) 1,2,4,5-Tetrachloroben...	7.323	216	18862	9.2858	ng	95
52) Hexachlorocyclopentadiene	7.313	237	6143	6.5070	ng	99
53) 2,4,6-Trichlorophenol	7.414	196	10921	8.4049	ng	99
54) 2,4,5-Trichlorophenol	7.446	196	11747	8.4288	ng	98
56) 2-Chloronaphthalene	7.585	162	35821	8.9733	ng	89
57) 1,4-Dimethylnaphthalene	7.857	156	29432	9.1116	ng	90
58) Dimethylnaphthalenes (...	7.857	156	29432	9.1116	ng	90
59) Diphenyl Ether	7.649	170	24866	9.2112	ng	68
60) 2-Nitroaniline	7.665	65	10112	8.0452	ng	51
61) Coumarin	7.841	146	14407	9.2760	ng	97
62) Acenaphthylene	7.932	152	51119	9.0913	ng	99
63) Dimethylphthalate	7.804	163	38205	8.7726	ng	99
64) 2,6-Dinitrotoluene	7.863	165	8083	8.2196	ng	62
65) Acenaphthene	8.082	153	35412	8.8193	ng	95

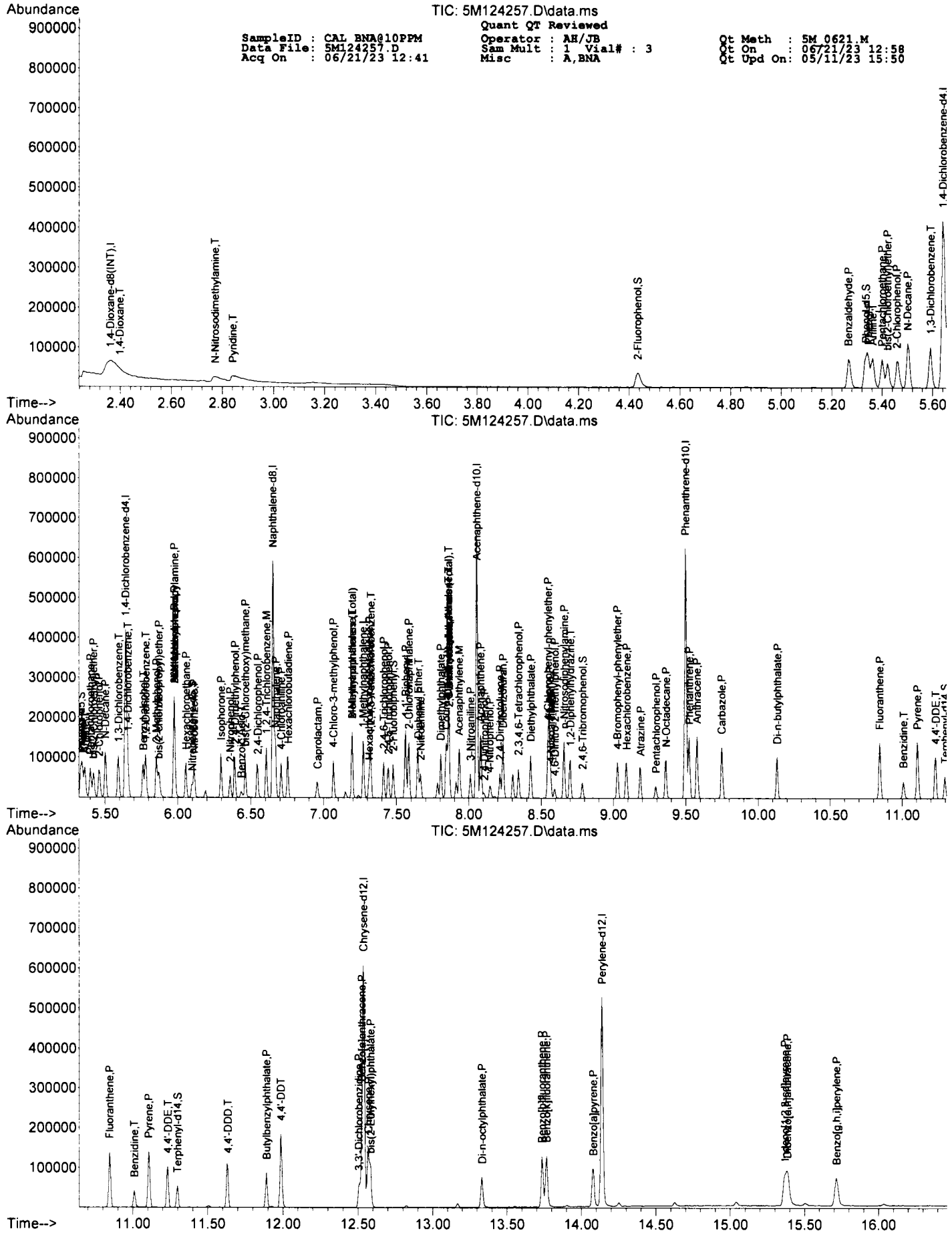
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@10PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124257.D Sam Mult : 1 Via1# : 3 Qt On : 06/21/23 12:58
Acq On : 06/21/23 12:41 Misc : A,BNA Qt Upd On: 05/11/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.012	138	8696	8.5999	ng	74
67)	2,4-Dinitrophenol	8.109	184	2040	6.0186	ng	1
68)	Dibenzofuran	8.237	168	51081	8.9779	ng	82
69)	2,4-Dinitrotoluene	8.215	165	9869	7.8344	ng	64
70)	4-Nitrophenol	8.146	65	4950	7.8147	ng	98
71)	2,3,4,6-Tetrachlorophenol	8.344	232	9166	8.2067	ng	82
72)	Fluorene	8.557	166	39781	8.6942	ng	97
73)	4-Chlorophenyl-phenyle...	8.547	204	19623	8.8104	ng	81
74)	Diethylphthalate	8.429	149	35094	8.5037	ng	95
75)	4-Nitroaniline	8.568	138	8725	7.8005	ng	68
76)	Atrazine	9.188	200	9345	7.8353	ng	94
78)	4,6-Dinitro-2-methylph...	8.595	198	3890	6.4703	ng	68
79)	n-Nitrosodiphenylamine	8.659	169	32182	8.5138	ng	99
81)	1,2-Diphenylhydrazine	8.702	77	39590	8.8353	ng	80
82)	4-Bromophenyl-phenylether	9.027	248	10868	8.2200	ng	81
83)	Hexachlorobenzene	9.092	284	12351	8.8015	ng	60
84)	N-Octadecane	9.364	57	16117	7.7573	ng	72
85)	Pentachlorophenol	9.295	266	4278	6.7185	ng	98
86)	Phenanthrene	9.524	178	58499	8.7522	ng	99
87)	Anthracene	9.578	178	57908	8.6360	ng	99
88)	Carbazole	9.749	167	52082	8.4404	ng	96
89)	Di-n-butylphthalate	10.133	149	52913	7.6803	ng	96
90)	Fluoranthene	10.844	202	59554	8.1672	ng	91
92)	Pyrene	11.106	202	63100	8.7858	ng	88
93)	Benzidine	11.009	184	19731	5.7038	ng	88
95)	4,4'-DDE	11.234	246	12408	8.2230	ng	95
96)	4,4'-DDD	11.634	235	21613	8.0655	ng	97
97)	Butylbenzylphthalate	11.891	149	20450	7.0126	ng	70
98)	4,4'-DDT	11.987	235	16387	7.6695	ng	98
99)	3,3'-Dichlorobenzidine	12.505	252	14856	6.7605	ng	97
100)	Benzo[a]anthracene	12.527	228	58455	8.4126	ng	99
101)	Chrysene	12.569	228	57643	9.0661	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.585	149	29012	7.1104	ng	94
104)	Di-n-octylphthalate	13.333	149	43076	5.9198	ng	100
105)	Benzo[b]fluoranthene	13.734	252	53052m	7.6923	ng	
106)	Benzo[k]fluoranthene	13.766	252	58495	8.8850	ng	92
107)	Benzo[a]pyrene	14.081	252	45643	7.7650	ng	90
108)	Indeno[1,2,3-cd]pyrene	15.369	276	57190	7.7367	ng	75
109)	Dibenzo[a,h]anthracene	15.385	278	47770	7.8272	ng	94
110)	Benzo[g,h,i]perylene	15.716	276	48982	8.2596	ng	74

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M124257.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@10PPM
Data File: 5M124257.D
Acq On : 06/21/23 12:41
Operator : AH/JB
Sam Mult : 1 Vial# : 3
Misc : A,BNA
Qt Meth : 5M_0621.M
Qt On : 06/21/23 12:58
Qt Upd On: 05/11/23 15:50
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
1,3-Dichlorobenzene,T
1,4-Dichlorobenzene-d4,I
Time-->

Abundance
TIC: 5M124257.D\data.ms
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
2,4-Dichlorophenol,P
Hexachlorobutadiene,P
Acenaphthylene,M
3-Nitroaniline,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->

Abundance
TIC: 5M124257.D\data.ms
Chrysene-d12,I
Perylene-d12,I
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
3,3'-Dichlorobenzidine,P
Benzo[a]anthracene,P
bis(2-Ethylhexyl)phthalate,P
Di-n-octylphthalate,P
Benzo(b)fluoranthene,P
Benzo(k)fluoranthene,P
Benzo[a]pyrene,P
Indeno(1,2,3-cd)pyrene,P
Dibenz(a,h)anthracene,P
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@20PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124262.D Sam Mult : 1 Vial# : 8 Qt On : 06/21/23 15:13
Acq On : 06/21/23 14:39 Misc : A,BNA Qt Upd On: 05/11/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.355	96	53086	40.00	ng	-0.05
21) 1,4-Dichlorobenzene-d4	5.640	152	78280	40.00	ng	-0.03
31) Naphthalene-d8	6.650	136	272851	40.00	ng	-0.03
50) Acenaphthene-d10	8.055	164	150848	40.00	ng	-0.04
77) Phenanthrene-d10	9.497	188	279073	40.00	ng	-0.04
91) Chrysene-d12	12.537	240	252777	40.00	ng	-0.05
103) Perylene-d12	14.140	264	250036	40.00	ng	-0.05
System Monitoring Compounds						
11) 2-Fluorophenol	4.433	112	44308	18.89	ng	-0.05
Spiked Amount 100.000			Recovery = 18.89%			
16) Phenol-d5	5.330	99	54043	18.49	ng	-0.05
Spiked Amount 100.000			Recovery = 18.49%			
32) Nitrobenzene-d5	6.094	128	10256	8.87	ng	-0.03
Spiked Amount 50.000			Recovery = 17.74%			
55) 2-Fluorobiphenyl	7.478	172	48935	9.12	ng	-0.03
Spiked Amount 50.000			Recovery = 18.24%			
80) 2,4,6-Tribromophenol	8.787	330	11741	16.47	ng	-0.04
Spiked Amount 100.000			Recovery = 16.47%			
94) Terphenyl-d14	11.298	244	43233	9.05	ng	-0.04
Spiked Amount 50.000			Recovery = 18.10%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.387	88	26208	17.5623	ng	99
9) Pyridine	2.825	79	53410	18.3784	ng	69
10) N-Nitrosodimethylamine	2.761	74	40009	18.5800	ng	72
12) Benzaldehyde	5.266	77	39117	19.2411	ng	77
13) Aniline	5.363	93	63558	17.6039	ng	58
14) Pentachloroethane	5.400	117	17603	19.5811	ng	72
15) bis(2-Chloroethyl)ether	5.421	93	48281	19.0808	ng	80
17) Phenol	5.346	94	65813	18.1653	ng	79
18) 2-Chlorophenol	5.459	128	48564	18.9747	ng	80
19) N-Decane	5.501	57	50425	18.4816	ng	97
20) 1,3-Dichlorobenzene	5.592	146	54814m	18.9091	ng	
22) 1,4-Dichlorobenzene	5.656	146	55639	17.5446	ng	98
23) 1,2-Dichlorobenzene	5.779	146	52766	17.8086	ng	98
24) Benzyl alcohol	5.763	108	31636	17.8122	ng	67
25) bis(2-chloroisopropyl)...	5.870	45	59618	16.8739	ng	98
26) 2-Methylphenol	5.854	108	42699	17.6182	ng	98
27) Acetophenone	5.977	105	63222	19.0112	ng	73
28) Hexachloroethane	6.057	117	19954	17.7491	ng	86
29) N-Nitroso-di-n-propyla...	5.977	70	32649	18.1808	ng	75
30) 3&4-Methylphenol	5.977	108	46244	18.6409	ng	97
33) Nitrobenzene	6.110	77	47487	18.2376	ng	81
34) Isophorone	6.297	82	85456	18.0358	ng	90
35) 2-Nitrophenol	6.362	139	23295	17.5945	ng	83
36) 2,4-Dimethylphenol	6.388	107	43577	18.0504	ng	94
37) Benzoic Acid	6.447	105	22243	15.1154	ng	82
38) bis(2-Chloroethoxy)met...	6.463	93	53757	18.0571	ng	97
39) 2,4-Dichlorophenol	6.543	162	38627	18.2419	ng	87
40) 1,2,4-Trichlorobenzene	6.607	180	44513	17.9344	ng	97
41) Naphthalene	6.666	128	137756	17.9666	ng	99
42) 4-Chloroaniline	6.709	127	48158	17.9472	ng	95
43) Hexachlorobutadiene	6.757	225	24939	18.1182	ng	96
44) Caprolactam	6.965	113	12333	18.1747	ng	69
45) 4-Chloro-3-methylphenol	7.067	107	35569	17.7512	ng	82
46) 2-Methylnaphthalene	7.195	142	88801	17.6241	ng	99
47) 1-Methylnaphthalene	7.270	142	83858	17.9080	ng	93
48) Methylnaphthalenes (To...	7.195	142	171733m	35.2216	ng	
49) 1,1'-Biphenyl	7.564	154	111424	18.2207	ng	93
51) 1,2,4,5-Tetrachloroben...	7.323	216	45054	19.0504	ng	99
52) Hexachlorocyclopentadiene	7.312	237	16153	14.6958	ng	98
53) 2,4,6-Trichlorophenol	7.414	196	26739	17.6749	ng	99
54) 2,4,5-Trichlorophenol	7.446	196	28933	17.8309	ng	98
56) 2-Chloronaphthalene	7.585	162	83872	18.0457	ng	89
57) 1,4-Dimethylnaphthalene	7.857	156	69443	18.4648	ng	87
58) Dimethylnaphthalenes (...	7.857	156	69443	18.4648	ng	87
59) Diphenyl Ether	7.649	170	59353	18.8841	ng	71
60) 2-Nitroaniline	7.665	65	25910	17.7055	ng	55
61) Coumarin	7.847	146	34287	18.9609	ng	99
62) Acenaphthylene	7.937	152	119552	18.2617	ng	99
63) Dimethylphthalate	7.804	163	90345	17.8177	ng	99
64) 2,6-Dinitrotoluene	7.863	165	20695	18.0753	ng	65
65) Acenaphthene	8.087	153	83655	17.8943	ng	96

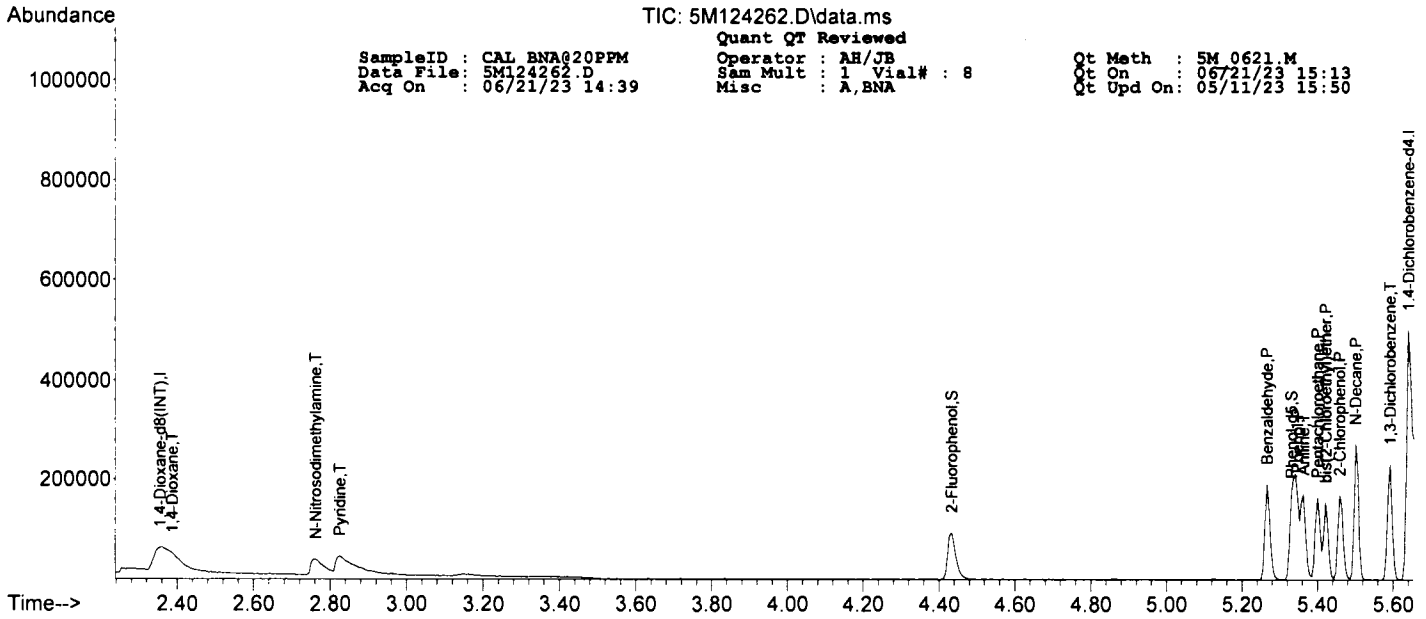
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@20PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124262.D Sam Mult : 1 Vial# : 8 Qt On : 06/21/23 15:13
Acq On : 06/21/23 14:39 Misc : A,BNA Qt Upd On: 05/11/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.012	138	21479	18.2444	ng	75
67)	2,4-Dinitrophenol	8.103	184	6894	16.6106	ng	39
68)	Dibenzofuran	8.237	168	118467	17.8835	ng	84
69)	2,4-Dinitrotoluene	8.215	165	25788	17.5830	ng	67
70)	4-Nitrophenol	8.146	65	13904	18.4411	ng	90
71)	2,3,4,6-Tetrachlorophenol	8.343	232	23966	18.4299	ng	79
72)	Fluorene	8.557	166	96475	18.1096	ng	100
73)	4-Chlorophenyl-phenyle...	8.547	204	46381	17.8860	ng	80
74)	Diethylphthalate	8.429	149	84268	17.5380	ng	96
75)	4-Nitroaniline	8.568	138	23035	17.6884	ng	71
76)	Atrazine	9.188	200	24641	17.7449	ng	96
78)	4,6-Dinitro-2-methylph...	8.595	198	11626	15.8381	ng	79
79)	n-Nitrosodiphenylamine	8.659	169	78828	17.4643	ng	98
81)	1,2-Diphenylhydrazine	8.701	77	98340	18.3792	ng	80
82)	4-Bromophenyl-phenylether	9.027	248	26530	16.8043	ng	81
83)	Hexachlorobenzene	9.091	284	29564	17.6433	ng	60
84)	N-Octadecane	9.364	57	40620	16.3730	ng	73
85)	Pentachlorophenol	9.294	266	13303	16.9800	ng	94
86)	Phenanthrene	9.524	178	135638	16.9946	ng	100
87)	Anthracene	9.578	178	136345	17.0283	ng	100
88)	Carbazole	9.748	167	123865	16.8107	ng	96
89)	Di-n-butylphthalate	10.133	149	138908	16.8851	ng	96
90)	Fluoranthene	10.844	202	148583	17.0644	ng	92
92)	Pyrene	11.111	202	156047	18.0872	ng	86
93)	Benzidine	11.009	184	58625	14.1080	ng	87
95)	4,4'-DDE	11.234	246	31673	17.4737	ng	95
96)	4,4'-DDD	11.629	235	56426	17.5291	ng	97
97)	Butylbenzylphthalate	11.891	149	56881	16.2373	ng	68
98)	4,4'-DDT	11.987	235	44145	17.1995	ng	99
99)	3,3'-Dichlorobenzidine	12.505	252	42440	16.0775	ng	96
100)	Benzo[a]anthracene	12.526	228	149471	17.9072	ng	100
101)	Chrysene	12.569	228	138431	18.1246	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.585	149	80971	16.5199	ng	93
104)	Di-n-octylphthalate	13.333	149	128383	14.6943	ng	99
105)	Benzo[b]fluoranthene	13.739	252	134044m	16.1874	ng	
106)	Benzo[k]fluoranthene	13.766	252	143623	18.1691	ng	93
107)	Benzo[a]pyrene	14.081	252	120284	17.0429	ng	91
108)	Indeno[1,2,3-cd]pyrene	15.369	276	144993	16.3363	ng	79
109)	Dibenzo[a,h]anthracene	15.390	278	119553	16.3149	ng	95
110)	Benzo[g,h,i]perylene	15.716	276	117114	16.4476	ng	75

(#) = qualifier out of range (m) = manual integration (+) = signals summed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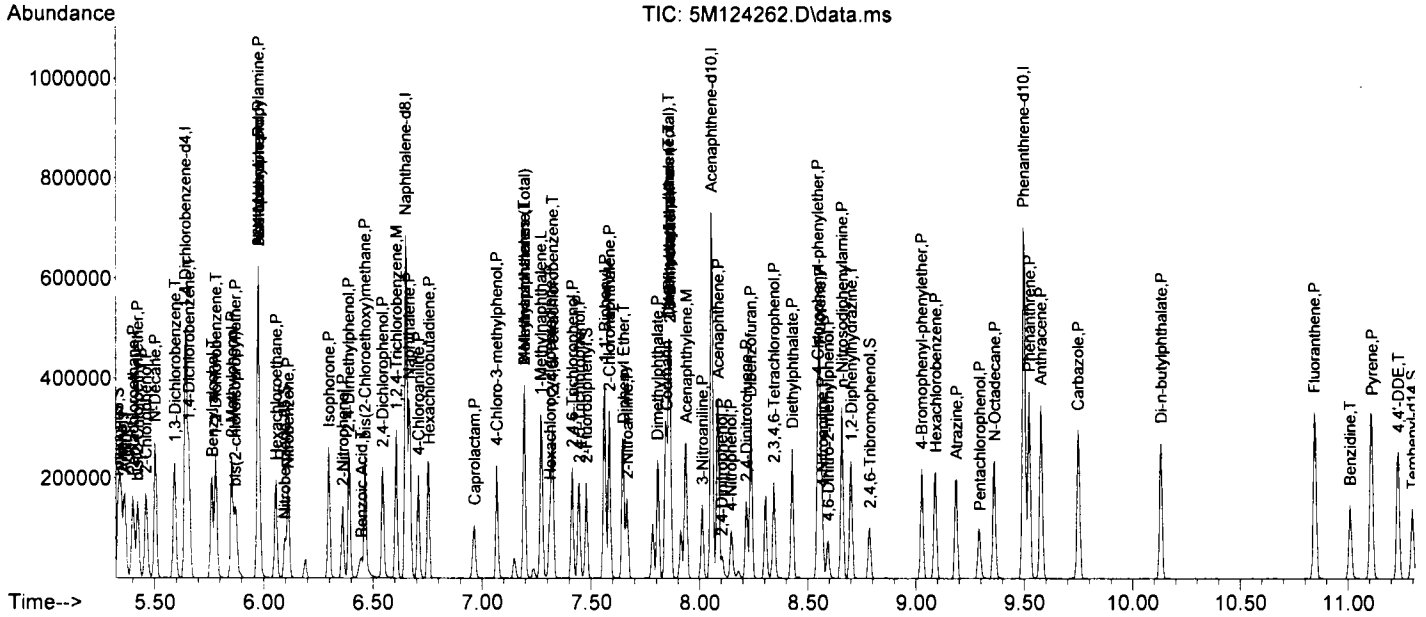
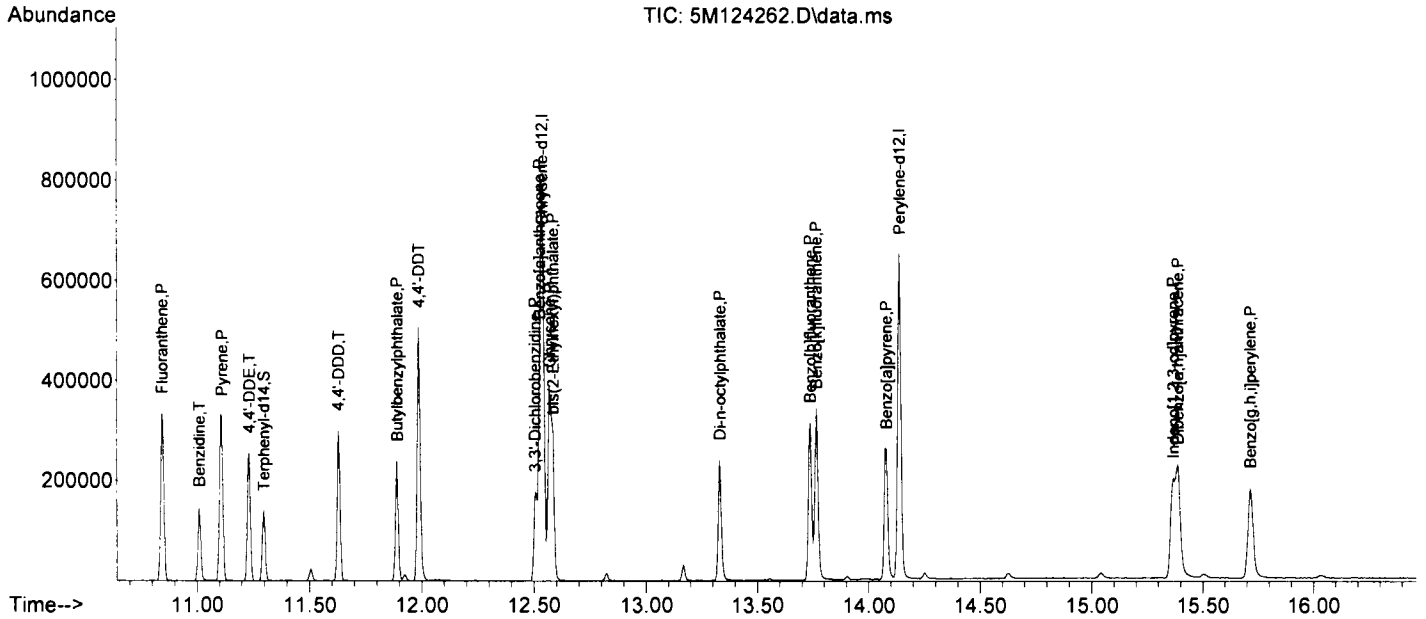
Quant QT Reviewed
SampleID : CAL BNA@20PPM
Data File: 5M124262.D
Acq On : 06/21/23 14:39
Operator : AH/JB
Sam Mult : 1 Vial# : 8
Misc : A,BNA
Qt Meth : 5M_0621.M
Qt On : 06/21/23 15:13
Qt Upd On: 05/11/23 15:50
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
1,3-Dichlorobenzene,T
1,4-Dichlorobenzene-d4,I
Time-->


Abundance
TIC: 5M124262.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
2,4-Dichlorophenol,P
Naphthalene-d8,I
Hexachlorobutadiene,P
Acenaphthene-d10,I
Acenaphthene,P
3-Nitroaniline,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene-d10,I
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 5M124262.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Perylene-d12,I
Benzo[a]pyrene,P
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@80PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124261.D Sam Mult : 1 Vial# : 7 Qt On : 06/21/23 14:30
Acq On : 06/21/23 14:16 Misc : A,BNA Qt Upd On: 05/11/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.355	96	54825	40.00	ng	-0.05
21) 1,4-Dichlorobenzene-d4	5.646	152	76871	40.00	ng	-0.03
31) Naphthalene-d8	6.655	136	263834	40.00	ng	-0.03
50) Acenaphthene-d10	8.060	164	149394	40.00	ng	-0.03
77) Phenanthrene-d10	9.503	188	274717	40.00	ng	-0.04
91) Chrysene-d12	12.543	240	259957	40.00	ng	-0.04
103) Perylene-d12	14.140	264	250220	40.00	ng	-0.05
System Monitoring Compounds						
11) 2-Fluorophenol	4.433	112	191583	79.10	ng	-0.05
Spiked Amount 100.000			Recovery = 79.10%			
16) Phenol-d5	5.336	99	236053	78.18	ng	-0.04
Spiked Amount 100.000			Recovery = 78.18%			
32) Nitrobenzene-d5	6.100	128	43554	38.96	ng	-0.03
Spiked Amount 50.000			Recovery = 77.92%			
55) 2-Fluorobiphenyl	7.478	172	203118	38.23	ng	-0.03
Spiked Amount 50.000			Recovery = 76.46%			
80) 2,4,6-Tribromophenol	8.787	330	54875	78.18	ng	-0.04
Spiked Amount 100.000			Recovery = 78.18%			
94) Terphenyl-d14	11.298	244	183508	37.35	ng	-0.04
Spiked Amount 50.000			Recovery = 74.70%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.392	88	109355	70.9558	ng	99
9) Pyridine	2.814	79	231920	77.2725	ng	67
10) N-Nitrosodimethylamine	2.756	74	176261	79.2584	ng	74
12) Benzaldehyde	5.266	77	167272	79.6689	ng	79
13) Aniline	5.363	93	265953m	71.3256	ng	
14) Pentachloroethane	5.400	117	71968	77.5158	ng	74
15) bis(2-Chloroethyl)ether	5.427	93	198215	75.8505	ng	79
17) Phenol	5.347	94	284117	75.9329	ng	82
18) 2-Chlorophenol	5.464	128	203865	77.1265	ng	79
19) N-Decane	5.507	57	212692m	75.4823	ng	
20) 1,3-Dichlorobenzene	5.592	146	228733m	76.4027	ng	
22) 1,4-Dichlorobenzene	5.656	146	231516	74.3419	ng	98
23) 1,2-Dichlorobenzene	5.779	146	218686	75.1596	ng	96
24) Benzyl alcohol	5.763	108	134825	77.3026	ng	70
25) bis(2-chloroisopropyl)...	5.875	45	236112	68.0526	ng	98
26) 2-Methylphenol	5.854	108	181154	76.1167	ng	97
27) Acetophenone	5.977	105	269615	82.5607	ng	68
28) Hexachloroethane	6.057	117	82446	74.6799	ng	90
29) N-Nitroso-di-n-propyla...	5.977	70	140021	79.4007	ng	70
30) 3&4-Methylphenol	5.982	108	196009	80.4590	ng	98
33) Nitrobenzene	6.116	77	194006	77.0553	ng	77
34) Isophorone	6.303	82	364510	79.5604	ng	87
35) 2-Nitrophenol	6.362	139	102846	80.3334	ng	86
36) 2,4-Dimethylphenol	6.394	107	178281	76.3711	ng	92
37) Benzoic Acid	6.479	105	132160	80.0448	ng	85
38) bis(2-Chloroethoxy)met...	6.468	93	221009	76.7746	ng	96
39) 2,4-Dichlorophenol	6.549	162	165160	80.6638	ng	85
40) 1,2,4-Trichlorobenzene	6.607	180	181893	75.7899	ng	97
41) Naphthalene	6.671	128	581470	78.4293	ng	99
42) 4-Chloroaniline	6.709	127	197369m	76.0681	ng	
43) Hexachlorobutadiene	6.757	225	105999	79.6403	ng	97
44) Caprolactam	6.987	113	52631	80.2113	ng	70
45) 4-Chloro-3-methylphenol	7.072	107	151737	78.3145	ng	80
46) 2-Methylnaphthalene	7.195	142	377631	77.5087	ng	100
47) 1-Methylnaphthalene	7.275	142	352094	77.7600	ng	94
48) Methylnaphthalenes (To...	7.195	142	723706m	153.5013	ng	
49) 1,1'-Biphenyl	7.564	154	468602	79.2473	ng	95
51) 1,2,4,5-Tetrachloroben...	7.323	216	185415	79.1631	ng	99
52) Hexachlorocyclopentadiene	7.312	237	80380	73.8404	ng	98
53) 2,4,6-Trichlorophenol	7.414	196	115799	77.2898	ng	100
54) 2,4,5-Trichlorophenol	7.446	196	124032	77.1828	ng	99
56) 2-Chloronaphthalene	7.585	162	349416	75.9112	ng	91
57) 1,4-Dimethylnaphthalene	7.863	156	292935	78.6490	ng	85
58) Dimethylnaphthalenes (...	7.863	156	292935	78.6490	ng	85
59) Diphenyl Ether	7.649	170	238945	76.7641	ng	74
60) 2-Nitroaniline	7.670	65	108648	74.9669	ng	44
61) Coumarin	7.852	146	140550	78.4813	ng	93
62) Acenaphthylene	7.938	152	487602	75.2069	ng	99
63) Dimethylphthalate	7.815	163	376639	75.0033	ng	99
64) 2,6-Dinitrotoluene	7.868	165	86752	76.5079	ng	61
65) Acenaphthene	8.087	153	339005	73.2211	ng	98

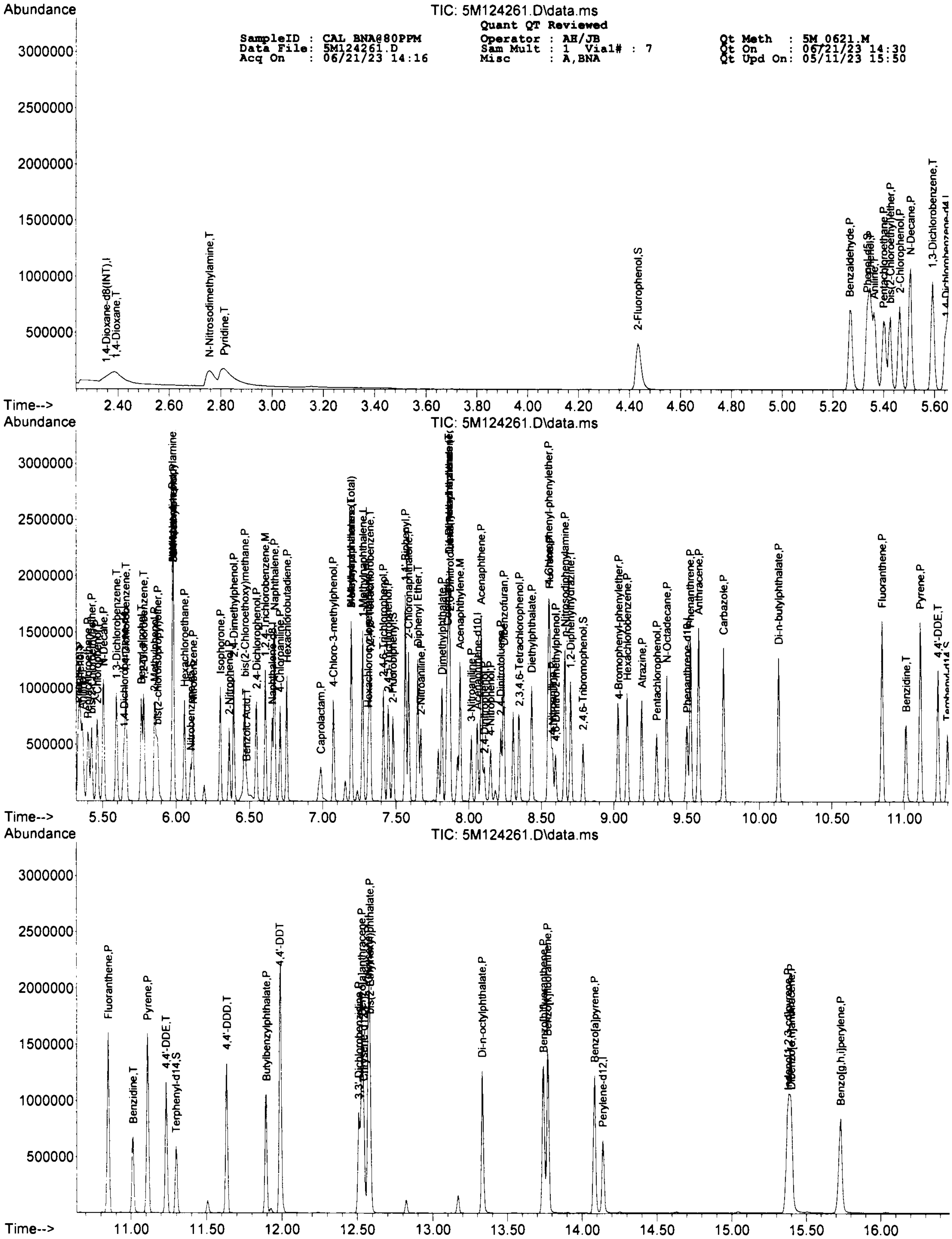
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@80PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124261.D Sam Mult : 1 Vial# : 7 Qt On : 06/21/23 14:30
Acq On : 06/21/23 14:16 Misc : A,BNA Qt Upd On: 05/11/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.018	138	88240	75.6812	ng	74
67)	2,4-Dinitrophenol	8.108	184	43427	81.2650	ng	31
68)	Dibenzofuran	8.242	168	489034	74.5418	ng	82
69)	2,4-Dinitrotoluene	8.221	165	111303	76.6282	ng	64
70)	4-Nitrophenol	8.151	65	63315	75.8373	ng	85
71)	2,3,4,6-Tetrachlorophenol	8.349	232	101864	79.0961	ng	81
72)	Fluorene	8.557	166	405964	76.9462	ng	98
73)	4-Chlorophenyl-phenyle...	8.552	204	201498	78.4605	ng	76
74)	Diethylphthalate	8.434	149	357839	75.1990	ng	96
75)	4-Nitroaniline	8.579	138	97112	75.2972	ng	71
76)	Atrazine	9.193	200	105636	76.8130	ng	94
78)	4,6-Dinitro-2-methylph...	8.600	198	62356	75.6649	ng	74
79)	n-Nitrosodiphenylamine	8.664	169	330644	74.4155	ng	99
81)	1,2-Diphenylhydrazine	8.701	77	405233	76.9366	ng	84
82)	4-Bromophenyl-phenylether	9.033	248	114846	73.8976	ng	76
83)	Hexachlorobenzene	9.091	284	121386	73.5898	ng	64
84)	N-Octadecane	9.364	57	176785	72.3881	ng	72
85)	Pentachlorophenol	9.294	266	73507	80.5809	ng	99
86)	Phenanthrene	9.524	178	572767	72.9020	ng	99
87)	Anthracene	9.583	178	588407	74.6523	ng	99
88)	Carbazole	9.754	167	545502	75.2085	ng	97
89)	Di-n-butylphthalate	10.133	149	640422	79.0815	ng	97
90)	Fluoranthene	10.849	202	657993	76.7671	ng	91
92)	Pyrene	11.111	202	680365	76.6819	ng	89
93)	Benzidine	11.015	184	283158	66.2592	ng	84
95)	4,4'-DDE	11.234	246	135690	72.7912	ng	96
96)	4,4'-DDD	11.634	235	252708	76.3372	ng	97
97)	Butylbenzylphthalate	11.896	149	272722	75.7014	ng	66
98)	4,4'-DDT	11.987	235	208768	79.0922	ng	99
99)	3,3'-Dichlorobenzidine	12.510	252	194624	71.6928	ng	94
100)	Benzo[a]anthracene	12.532	228	631974	73.6218	ng	99
101)	Chrysene	12.575	228	591318	75.2824	ng	100
102)	bis(2-Ethylhexyl)phtha...	12.585	149	386886	76.7535	ng	93
104)	Di-n-octylphthalate	13.333	149	648877	74.2138	ng	99
105)	Benzo[b]fluoranthene	13.745	252	588958	71.0713	ng	97
106)	Benzo[k]fluoranthene	13.771	252	611535m	77.3058	ng	
107)	Benzo[a]pyrene	14.086	252	530038	75.0454	ng	90
108)	Indeno[1,2,3-cd]pyrene	15.379	276	654175	73.6515	ng	83
109)	Dibenzo[a,h]anthracene	15.401	278	540840	73.7518	ng	95
110)	Benzo[g,h,i]perylene	15.732	276	522766	73.3640	ng	76

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M124261.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@80PPM
Data File : 5M124261.D
Acq On : 06/21/23 14:16
Operator : AH/JB
Sam Mult : 1 Vial# : 7
Misc : A,BNA
Qt Meth : 5M_0621.M
Qt On : 06/21/23 14:30
Qt Upd On: 05/11/23 15:50
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
N-Decane,P
1,3-Dichlorobenzene,T
Time-->
Caprolactam,P
4-Chloro-3-methylphenol,P
Hexachlorobutadiene,P
Isophorone,P
Acenaphthylene,M
Acenaphthene,P
Dibenzofuran,P
Diethylphthalate,P
2,4,6-Tribromophenol,S
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->
2.40 2.60 2.80 3.00 3.20 3.40 3.60 3.80 4.00 4.20 4.40 4.60 4.80 5.00 5.20 5.40 5.60
5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00
11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50 15.00 15.50 16.00
500000 1000000 1500000 2000000 2500000 3000000

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@120PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124260.D Sam Mult : 1 Vial# : 6 Qt On : 06/21/23 14:13
Acq On : 06/21/23 13:52 Misc : A,BNA Qt Upd On: 05/11/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.360	96	51309	40.00	ng	-0.04
21) 1,4-Dichlorobenzene-d4	5.646	152	71242	40.00	ng	-0.03
31) Naphthalene-d8	6.655	136	244578	40.00	ng	-0.03
50) Acenaphthene-d10	8.060	164	134400	40.00	ng	-0.03
77) Phenanthrene-d10	9.503	188	241766	40.00	ng	-0.04
91) Chrysene-d12	12.543	240	228847	40.00	ng	-0.04
103) Perylene-d12	14.140	264	223580	40.00	ng	-0.05
System Monitoring Compounds						
11) 2-Fluorophenol	4.438	112	270408	119.29	ng	-0.04
Spiked Amount 100.000			Recovery = 119.29%			
16) Phenol-d5	5.341	99	328153	116.13	ng	-0.04
Spiked Amount 100.000			Recovery = 116.13%			
32) Nitrobenzene-d5	6.100	128	62091	59.92	ng	-0.03
Spiked Amount 50.000			Recovery = 119.84%			
55) 2-Fluorobiphenyl	7.483	172	280361	58.65	ng	-0.03
Spiked Amount 50.000			Recovery = 117.30%			
80) 2,4,6-Tribromophenol	8.792	330	76040	123.09	ng	-0.03
Spiked Amount 100.000			Recovery = 123.09%			
94) Terphenyl-d14	11.303	244	258821	59.84	ng	-0.04
Spiked Amount 50.000			Recovery = 119.68%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.392	88	147485	102.2544	ng	97
9) Pyridine	2.814	79	325950	116.0440	ng	66
10) N-Nitrosodimethylamine	2.756	74	245823	118.1127	ng	74
12) Benzaldehyde	5.272	77	232207	118.1750	ng	74
13) Aniline	5.368	93	367627m	105.3496	ng	
14) Pentachloroethane	5.405	117	100569	115.7444	ng	74
15) bis(2-Chloroethyl)ether	5.427	93	278583	113.9099	ng	78
17) Phenol	5.352	94	387807	110.7474	ng	85
18) 2-Chlorophenol	5.464	128	281872	113.9457	ng	81
19) N-Decane	5.507	57	285516m	108.2703	ng	
20) 1,3-Dichlorobenzene	5.592	146	315953m	112.7684	ng	
22) 1,4-Dichlorobenzene	5.656	146	317333	109.9497	ng	96
23) 1,2-Dichlorobenzene	5.785	146	296393	109.9152	ng	98
24) Benzyl alcohol	5.763	108	186273	115.2392	ng	71
25) bis(2-chloroisopropyl)...	5.875	45	316357	98.3853	ng	99
26) 2-Methylphenol	5.859	108	249273	113.0144	ng	97
27) Acetophenone	5.982	105	377590	124.7603	ng	69
28) Hexachloroethane	6.057	117	114293	111.7070	ng	89
29) N-Nitroso-di-n-propyla...	5.982	70	192829	117.9859	ng	68
30) 3&4-Methylphenol	5.982	108	273690	121.2227	ng	99
33) Nitrobenzene	6.116	77	268688	115.1196	ng	79
34) Isophorone	6.303	82	500379	117.8148	ng	88
35) 2-Nitrophenol	6.362	139	144629	121.8647	ng	86
36) 2,4-Dimethylphenol	6.394	107	256781	118.6589	ng	93
37) Benzoic Acid	6.490	105	189804	115.3435	ng	86
38) bis(2-Chloroethoxy)met...	6.468	93	308668	115.6678	ng	97
39) 2,4-Dichlorophenol	6.549	162	230428	121.4011	ng	86
40) 1,2,4-Trichlorobenzene	6.613	180	256271	115.1882	ng	95
41) Naphthalene	6.671	128	777251	113.0904	ng	98
42) 4-Chloroaniline	6.709	127	262798m	109.2594	ng	
43) Hexachlorobutadiene	6.757	225	145278	117.7455	ng	97
44) Caprolactam	6.997	113	75485	124.0990	ng	71
45) 4-Chloro-3-methylphenol	7.077	107	213988	119.1389	ng	76
46) 2-Methylnaphthalene	7.195	142	514427	113.8991	ng	98
47) 1-Methylnaphthalene	7.275	142	482951	115.0573	ng	91
48) Methylnaphthalenes (To...	7.195	142	996830m	228.0784	ng	
49) 1,1'-Biphenyl	7.564	154	644441	117.5647	ng	95
51) 1,2,4,5-Tetrachloroben...	7.323	216	254622	120.8391	ng	99
52) Hexachlorocyclopentadiene	7.312	237	114044	116.4535	ng	100
53) 2,4,6-Trichlorophenol	7.414	196	162640m	120.6642	ng	
54) 2,4,5-Trichlorophenol	7.451	196	173257m	119.8427	ng	
56) 2-Chloronaphthalene	7.590	162	484048	116.8922	ng	88
57) 1,4-Dimethylnaphthalene	7.863	156	412760	123.1837	ng	87
58) Dimethylnaphthalenes (...	7.863	156	412760	123.1837	ng	87
59) Diphenyl Ether	7.649	170	329382	117.6234	ng	75
60) 2-Nitroaniline	7.670	65	150028	115.0678	ng	46
61) Coumarin	7.852	146	202402	125.6272	ng	97
62) Acenaphthylene	7.943	152	676227	115.9360	ng	99
63) Dimethylphthalate	7.815	163	523369	115.8502	ng	99
64) 2,6-Dinitrotoluene	7.873	165	121008	118.6245	ng	54
65) Acenaphthene	8.087	153	483530	116.0881	ng	97

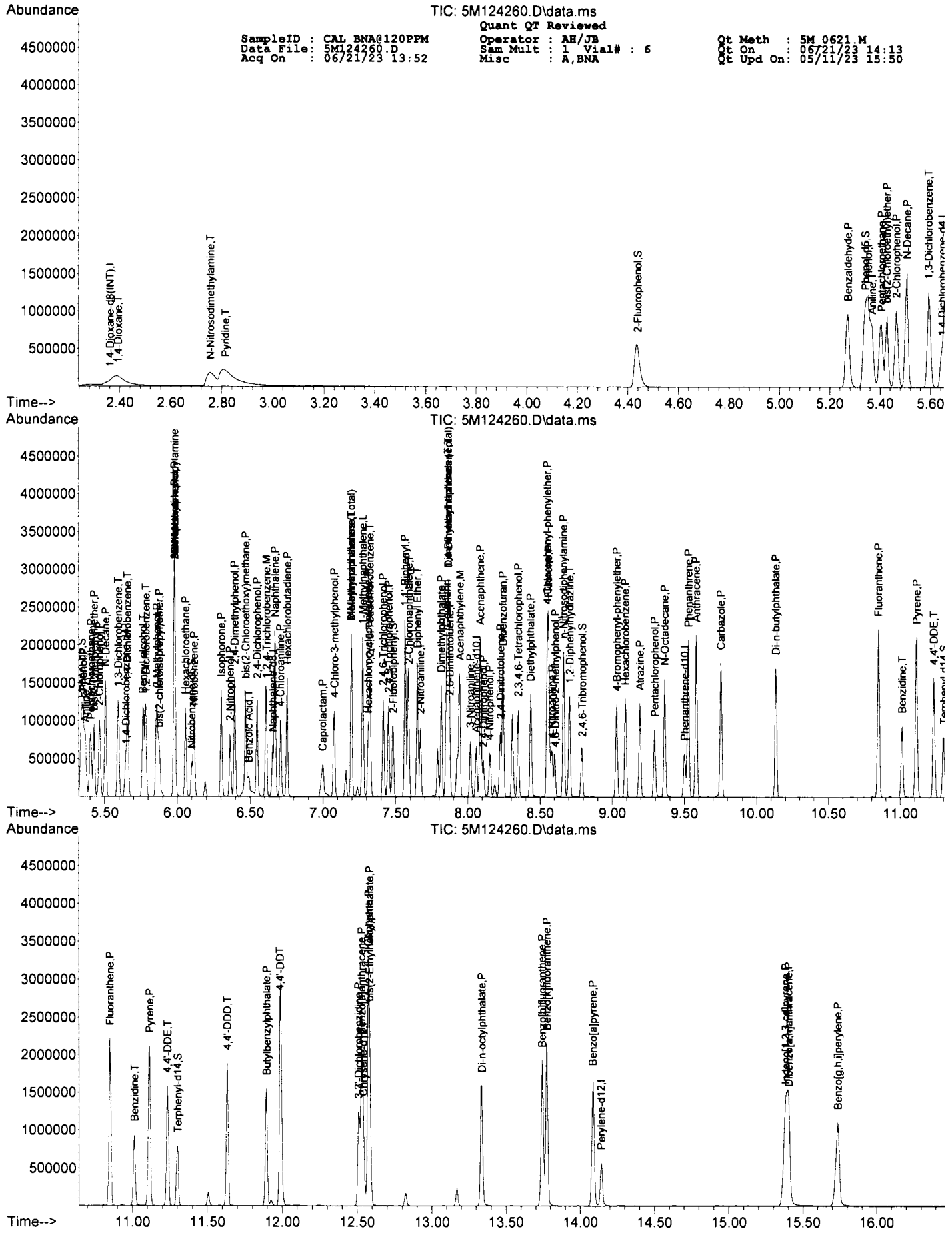
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@120PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124260.D Sam Mult : 1 Vial# : 6 Qt On : 06/21/23 14:13
Acq On : 06/21/23 13:52 Misc : A,BNA Qt Upd On: 05/11/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.018	138	119219	113.6585	ng	77
67)	2,4-Dinitrophenol	8.108	184	64469	118.4017	ng	37
68)	Dibenzofuran	8.242	168	674108	114.2153	ng	84
69)	2,4-Dinitrotoluene	8.226	165	157016	120.1598	ng	58
70)	4-Nitrophenol	8.151	65	91911	114.2853	ng	91
71)	2,3,4,6-Tetrachlorophenol	8.349	232	141860	122.4413	ng	81
72)	Fluorene	8.557	166	566437	119.3397	ng	99
73)	4-Chlorophenyl-phenyle...	8.552	204	280156	121.2590	ng	78
74)	Diethylphthalate	8.434	149	506233	118.2521	ng	97
75)	4-Nitroaniline	8.584	138	136787	117.8921	ng	71
76)	Atrazine	9.193	200	149734	121.0256	ng	96
78)	4,6-Dinitro-2-methylph...	8.605	198	88804	113.5784	ng	78
79)	n-Nitrosodiphenylamine	8.664	169	455914	116.5940	ng	99
81)	1,2-Diphenylhydrazine	8.707	77	566870	122.2931	ng	78
82)	4-Bromophenyl-phenylether	9.033	248	159103	116.3277	ng	78
83)	Hexachlorobenzene	9.091	284	169628	116.8521	ng	67
84)	N-Octadecane	9.364	57	249361	116.0221	ng	72
85)	Pentachlorophenol	9.294	266	103886	118.4893	ng	97
86)	Phenanthrene	9.530	178	794868	114.9601	ng	100
87)	Anthracene	9.583	178	811517	116.9912	ng	98
88)	Carbazole	9.754	167	752028	117.8134	ng	97
89)	Di-n-butylphthalate	10.133	149	896870	125.8429	ng	98
90)	Fluoranthene	10.849	202	923887	122.4795	ng	93
92)	Pyrene	11.116	202	955125	122.2834	ng	86
93)	Benzidine	11.015	184	387102	102.8961	ng	85
95)	4,4'-DDE	11.234	246	198094	120.7143	ng	95
96)	4,4'-DDD	11.634	235	356304	122.2627	ng	98
97)	Butylbenzylphthalate	11.896	149	392967	123.9070	ng	68
98)	4,4'-DDT	11.987	235	290796	125.1453	ng	99
99)	3,3'-Dichlorobenzidine	12.510	252	277497	116.1165	ng	94
100)	Benzo[a]anthracene	12.532	228	889074	117.6525	ng	99
101)	Chrysene	12.580	228	843578	121.9983	ng	100
102)	bis(2-Ethylhexyl)phtha...	12.585	149	559720	126.1369	ng	92
104)	Di-n-octylphthalate	13.339	149	928880	118.8970	ng	100
105)	Benzo[b]fluoranthene	13.745	252	810404	109.4461	ng	99
106)	Benzo[k]fluoranthene	13.777	252	833684	117.9455	ng	94
107)	Benzo[a]pyrene	14.086	252	738645	117.0421	ng	93
108)	Indeno[1,2,3-cd]pyrene	15.385	276	933246	117.5907	ng	84
109)	Dibenzo[a,h]anthracene	15.406	278	769694	117.4657	ng	95
110)	Benzo[g,h,i]perylene	15.737	276	724179	113.7393	ng	76

(#) = qualifier out of range (m) = manual integration (+) = signals summed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Quant QT Reviewed
SampleID : CAL BNA@120PPM
Data File: 5M124260.D
Acq On : 06/21/23 13:52
Operator : AH/JB
Sam Mult : 1 Vial# : 6
Misc : A,BNA
Qt Meth : 5M_0621.M
Qt On : 06/21/23 14:13
Qt Upd On: 05/11/23 15:50
1,4-Dioxane-d8(INT),I
1,4-Dioxane,I
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
1,3-Dichlorobenzene,T
Time-->
Abundance
TIC: 5M124260.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
Acenaphthene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->
Abundance
TIC: 5M124260.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->
5M_0621.M Thu Jun 29 15:32:52 2023 SYSTEM1
Page: 1

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@160PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124259.D Sam Mult : 1 Vial# : 5 Qt On : 06/21/23 14:12
Acq On : 06/21/23 13:28 Misc : A,BNA Qt Upd On: 05/11/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.355	96	50724	40.00	ng	-0.05
21) 1,4-Dichlorobenzene-d4	5.646	152	67561	40.00	ng	-0.03
31) Naphthalene-d8	6.655	136	232381	40.00	ng	-0.03
50) Acenaphthene-d10	8.060	164	129184	40.00	ng	-0.03
77) Phenanthrene-d10	9.503	188	233393	40.00	ng	-0.04
91) Chrysene-d12	12.548	240	225259	40.00	ng	-0.04
103) Perylene-d12	14.145	264	216306	40.00	ng	-0.04
System Monitoring Compounds						
11) 2-Fluorophenol	4.438	112	365581	163.14	ng	-0.04
Spiked Amount 100.000			Recovery = 163.14%			
16) Phenol-d5	5.341	99	440213	157.59	ng	-0.04
Spiked Amount 100.000			Recovery = 157.59%			
32) Nitrobenzene-d5	6.100	128	82388	83.68	ng	-0.03
Spiked Amount 50.000			Recovery = 167.36%			
55) 2-Fluorobiphenyl	7.483	172	384037	83.58	ng	-0.03
Spiked Amount 50.000			Recovery = 167.16%			
80) 2,4,6-Tribromophenol	8.792	330	105492	176.90	ng	-0.03
Spiked Amount 100.000			Recovery = 176.90%			
94) Terphenyl-d14	11.303	244	341425	80.19	ng	-0.04
Spiked Amount 50.000			Recovery = 160.38%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.392	88	200700m	140.7542	ng	
9) Pyridine	2.809	79	438726	157.9956	ng	67
10) N-Nitrosodimethylamine	2.756	74	329550	160.1679	ng	72
12) Benzaldehyde	5.272	77	305944	157.4971	ng	77
13) Aniline	5.368	93	501789	145.4544	ng	49
14) Pentachloroethane	5.405	117	136185	158.5423	ng	74
15) bis(2-Chloroethyl)ether	5.427	93	380157	157.2353	ng	79
17) Phenol	5.352	94	530328	153.1943	ng	84
18) 2-Chlorophenol	5.469	128	377126	154.2100	ng	78
19) N-Decane	5.507	57	387477m	148.6295	ng	
20) 1,3-Dichlorobenzene	5.592	146	426942m	154.1394	ng	
22) 1,4-Dichlorobenzene	5.662	146	426721	155.9060	ng	97
23) 1,2-Dichlorobenzene	5.785	146	402386	157.3521	ng	98
24) Benzyl alcohol	5.769	108	250723	163.5628	ng	68
25) bis(2-chloroisopropyl)...	5.875	45	416307	136.5233	ng	100
26) 2-Methylphenol	5.859	108	336381	160.8163	ng	98
27) Acetophenone	5.982	105	487665	169.9094	ng	66
28) Hexachloroethane	6.057	117	154690	159.4274	ng	88
29) N-Nitroso-di-n-propyla...	5.982	70	251021	161.9600	ng	66
30) 3&4-Methylphenol	5.988	108	356420	166.4666	ng	99
33) Nitrobenzene	6.121	77	360512	162.5689	ng	74
34) Isophorone	6.308	82	661103	163.8275	ng	85
35) 2-Nitrophenol	6.367	139	198375	175.9244	ng	79
36) 2,4-Dimethylphenol	6.399	107	353444	171.8995	ng	91
37) Benzoic Acid	6.500	105	264030	156.2280	ng	86
38) bis(2-Chloroethoxy)met...	6.468	93	411763	162.3996	ng	97
39) 2,4-Dichlorophenol	6.548	162	309973	171.8811	ng	87
40) 1,2,4-Trichlorobenzene	6.613	180	344935	163.1784	ng	96
41) Naphthalene	6.671	128	1041281	159.4590	ng	98
42) 4-Chloroaniline	6.714	127	331127m	144.8933	ng	
43) Hexachlorobutadiene	6.757	225	199984	170.5912	ng	95
44) Caprolactam	7.008	113	102330	177.0627	ng	69
45) 4-Chloro-3-methylphenol	7.077	107	289472	169.6241	ng	76
46) 2-Methylnaphthalene	7.200	142	700097	163.1441	ng	99
47) 1-Methylnaphthalene	7.275	142	655370	164.3291	ng	93
48) Methylnaphthalenes (To...	7.200	142	1363176m	328.2705	ng	
49) 1,1'-Biphenyl	7.569	154	866733	166.4163	ng	94
51) 1,2,4,5-Tetrachloroben...	7.328	216	353379	174.4789	ng	98
52) Hexachlorocyclopentadiene	7.312	237	158192	168.0565	ng	98
53) 2,4,6-Trichlorophenol	7.419	196	225941m	174.3960	ng	
54) 2,4,5-Trichlorophenol	7.451	196	236440m	170.1501	ng	
56) 2-Chloronaphthalene	7.590	162	669425	168.1859	ng	90
57) 1,4-Dimethylnaphthalene	7.868	156	552216	171.4570	ng	85
58) Dimethylnaphthalenes (...	7.868	156	552216	171.4570	ng	85
59) Diphenyl Ether	7.649	170	455126	169.0893	ng	77
60) 2-Nitroaniline	7.676	65	203053	162.0248	ng	39
61) Coumarin	7.857	146	276297	178.4168	ng	84
62) Acenaphthylene	7.943	152	924658	164.9292	ng	98
63) Dimethylphthalate	7.820	163	701925	161.6479	ng	98
64) 2,6-Dinitrotoluene	7.873	165	165412	168.7011	ng	58
65) Acenaphthene	8.092	153	654544	163.4909	ng	97

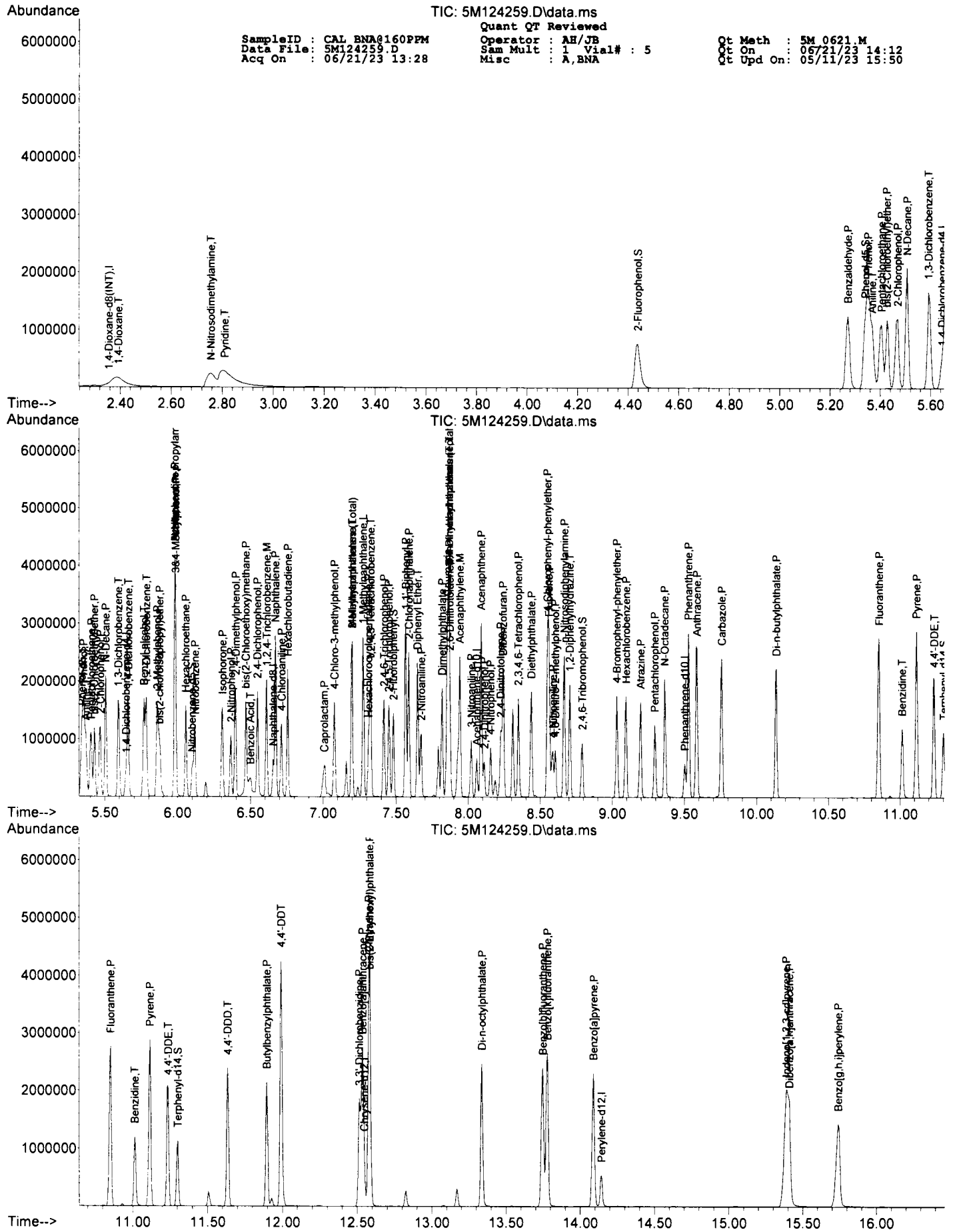
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@160PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124259.D Sam Mult : 1 Vial# : 5 Qt On : 06/21/23 14:12
Acq On : 06/21/23 13:28 Misc : A,BNA Qt Upd On: 05/11/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.023	138	155431	154.1646	ng	74
67)	2,4-Dinitrophenol	8.114	184	92084	156.9038	ng	29
68)	Dibenzofuran	8.242	168	911832	160.7312	ng	84
69)	2,4-Dinitrotoluene	8.226	165	216654	172.4935	ng	65
70)	4-Nitrophenol	8.157	65	120417	147.3907	ng	90
71)	2,3,4,6-Tetrachlorophenol	8.349	232	200272	179.8369	ng	82
72)	Fluorene	8.563	166	762882	167.2173	ng	98
73)	4-Chlorophenyl-phenyle...	8.552	204	384096	172.9595	ng	79
74)	Diethylphthalate	8.440	149	687632	167.1109	ng	97
75)	4-Nitroaniline	8.589	138	184700	165.6141	ng	71
76)	Atrazine	9.198	200	206874	173.9615	ng	96
78)	4,6-Dinitro-2-methylph...	8.605	198	122648	151.5141	ng	68
79)	n-Nitrosodiphenylamine	8.669	169	632170	167.4691	ng	99
81)	1,2-Diphenylhydrazine	8.707	77	757531	169.2881	ng	81
82)	4-Bromophenyl-phenylether	9.033	248	219467	166.2193	ng	81
83)	Hexachlorobenzene	9.097	284	229396	163.6938	ng	62
84)	N-Octadecane	9.364	57	336756	162.3061	ng	71
85)	Pentachlorophenol	9.294	266	148956	160.8350	ng	98
86)	Phenanthrene	9.529	178	1082943	162.2426	ng	98
87)	Anthracene	9.588	178	1074612	160.4778	ng	97
88)	Carbazole	9.759	167	1020003	165.5272	ng	96
89)	Di-n-butylphthalate	10.138	149	1232771	179.1798	ng	97
90)	Fluoranthene	10.854	202	1231837	169.1629	ng	91
92)	Pyrene	11.116	202	1260846	163.9956	ng	90
93)	Benzidine	11.015	184	497963	134.4726	ng	88
95)	4,4'-DDE	11.239	246	273699	169.4430	ng	95
96)	4,4'-DDD	11.634	235	477031	166.2965	ng	98
97)	Butylbenzylphthalate	11.896	149	539451	172.8045	ng	70
98)	4,4'-DDT	11.992	235	398343	174.1591	ng	99
99)	3,3'-Dichlorobenzidine	12.516	252	367508	156.2304	ng	96
100)	Benzo[a]anthracene	12.537	228	1202891	161.7159	ng	98
101)	Chrysene	12.580	228	1116163	163.9907	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.585	149	768304	175.9007	ng	93
104)	Di-n-octylphthalate	13.338	149	1305645	172.7432	ng	99
105)	Benzo[b]fluoranthene	13.750	252	1133633	158.2471	ng	98
106)	Benzo[k]fluoranthene	13.782	252	1064798m	155.7082	ng	
107)	Benzo[a]pyrene	14.092	252	1014048	166.0846	ng	93
108)	Indeno[1,2,3-cd]pyrene	15.390	276	1278702	166.5370	ng	87
109)	Dibenzo[a,h]anthracene	15.411	278	1045843	164.9772	ng	95
110)	Benzo[g,h,i]perylene	15.743	276	1002670	162.7747	ng	76

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M124259.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@160PPM
Data File: 5M124259.D
Acq On : 06/21/23 13:28
Operator : AH/JB
Sam Mult : 1 Vial# : 5
Misc : A,BNA
Qt Meth : 5M_0621.M
Qt On : 06/21/23 14:12
Qt Upd On: 05/11/23 15:50
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
1,3-Dichlorobenzene,T
Time-->
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
Benzoic Acid,T
Naphthalene,P
4-Chloroaniline,P
Hexachlorobutadiene,P
Dimethylphthalate,P
Acenaphthylene,M
Acenaphthene,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Time-->
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@196PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124258.D Sam Mult : 1 Vial# : 4 Qt On : 06/21/23 13:35
Acq On : 06/21/23 13:04 Misc : A,BNA Qt Upd On: 05/11/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.355	96	50530	40.00	ng	-0.05
21) 1,4-Dichlorobenzene-d4	5.646	152	66615	40.00	ng	-0.03
31) Naphthalene-d8	6.655	136	228370	40.00	ng	-0.03
50) Acenaphthene-d10	8.060	164	128595	40.00	ng	-0.03
77) Phenanthrene-d10	9.503	188	237934	40.00	ng	-0.04
91) Chrysene-d12	12.548	240	226870	40.00	ng	-0.04
103) Perylene-d12	14.145	264	213673	40.00	ng	-0.04
System Monitoring Compounds						
11) 2-Fluorophenol	4.438	112	470426	210.73	ng	-0.04
Spiked Amount 100.000			Recovery = 210.73%			
16) Phenol-d5	5.347	99	569447	204.63	ng	-0.03
Spiked Amount 100.000			Recovery = 204.63%			
32) Nitrobenzene-d5	6.105	128	103115	106.57	ng	-0.02
Spiked Amount 50.000			Recovery = 213.14%			
55) 2-Fluorobiphenyl	7.484	172	490192	107.18	ng	-0.03
Spiked Amount 50.000			Recovery = 214.36%			
80) 2,4,6-Tribromophenol	8.792	330	139270	229.08	ng	-0.03
Spiked Amount 100.000			Recovery = 229.08%			
94) Terphenyl-d14	11.303	244	460185	107.31	ng	-0.04
Spiked Amount 50.000			Recovery = 214.62%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.387	88	267443m	188.2823	ng	
9) Pyridine	2.804	79	562592	203.3806	ng	65
10) N-Nitrosodimethylamine	2.756	74	427937	208.7845	ng	72
12) Benzaldehyde	5.272	77	394347	203.7855	ng	74
13) Aniline	5.368	93	648402	188.6749	ng	49
14) Pentachloroethane	5.405	117	173180	202.3847	ng	73
15) bis(2-Chloroethyl)ether	5.432	93	455217	189.0034	ng	78
17) Phenol	5.357	94	683011	198.0569	ng	90
18) 2-Chlorophenol	5.469	128	478368	196.3598	ng	78
19) N-Decane	5.507	57	495309m	190.7215	ng	
20) 1,3-Dichlorobenzene	5.598	146	541545m	196.2653	ng	
22) 1,4-Dichlorobenzene	5.662	146	548139	203.1111	ng	98
23) 1,2-Dichlorobenzene	5.785	146	524401	207.9779	ng	99
24) Benzyl alcohol	5.769	108	329305	217.8776	ng	68
25) bis(2-chloroisopropyl)...	5.875	45	535593	178.1361	ng	99
26) 2-Methylphenol	5.859	108	443418	214.9987	ng	96
27) Acetophenone	5.982	105	602025	212.7328	ng	63
28) Hexachloroethane	6.057	117	199230	208.2473	ng	88
29) N-Nitroso-di-n-propyla...	5.988	70	302870m	198.1883	ng	
30) 3&4-Methylphenol	5.988	108	441641	209.1985	ng	98
33) Nitrobenzene	6.121	77	459112	210.6677	ng	76
34) Isophorone	6.308	82	856159	215.8906	ng	86
35) 2-Nitrophenol	6.367	139	255011	230.1228	ng	80
36) 2,4-Dimethylphenol	6.399	107	448071	221.7494	ng	92
37) Benzoic Acid	6.511	105	334732	189.8513	ng	86
38) bis(2-Chloroethoxy)met...	6.474	93	532468	213.6942	ng	96
39) 2,4-Dichlorophenol	6.554	162	396227	223.5681	ng	85
40) 1,2,4-Trichlorobenzene	6.613	180	452237	217.6972	ng	97
41) Naphthalene	6.677	128	1316780	205.1899	ng	97
42) 4-Chloroaniline	6.714	127	387983	172.7540	ng	96
43) Hexachlorobutadiene	6.757	225	254376	220.8000	ng	96
44) Caprolactam	7.024	113	131182	230.9724	ng	67
45) 4-Chloro-3-methylphenol	7.077	107	376689	224.6081	ng	81
46) 2-Methylnaphthalene	7.200	142	887569	210.4635	ng	100
47) 1-Methylnaphthalene	7.275	142	822895	209.9588	ng	92
48) Methylnaphthalenes (To...	7.200	142	1709423m	418.8814	ng	
49) 1,1'-Biphenyl	7.569	154	1110211	216.9090	ng	93
51) 1,2,4,5-Tetrachloroben...	7.329	216	447800	222.1114	ng	98
52) Hexachlorocyclopentadiene	7.318	237	208919	222.9633	ng	99
53) 2,4,6-Trichlorophenol	7.419	196	292095m	226.4907	ng	
54) 2,4,5-Trichlorophenol	7.457	196	310108m	224.1862	ng	
56) 2-Chloronaphthalene	7.590	162	850118	214.5614	ng	91
57) 1,4-Dimethylnaphthalene	7.868	156	699743	218.2576	ng	86
58) Dimethylnaphthalenes (...	7.868	156	699743	218.2576	ng	86
59) Diphenyl Ether	7.649	170	592991	221.3183	ng	78
60) 2-Nitroaniline	7.676	65	264074	211.6813	ng	46
61) Coumarin	7.863	146	346247	224.6106	ng	91
62) Acenaphthylene	7.943	152	1189662	213.1693	ng	97
63) Dimethylphthalate	7.825	163	920097	212.8617	ng	98
64) 2,6-Dinitrotoluene	7.879	165	208206	213.3187	ng	56
65) Acenaphthene	8.093	153	832831	208.9759	ng	98

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@196PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124258.D Sam Mult : 1 Vial# : 4 Qt On : 06/21/23 13:35
Acq On : 06/21/23 13:04 Misc : A,BNA Qt Upd On: 05/11/23 15:50

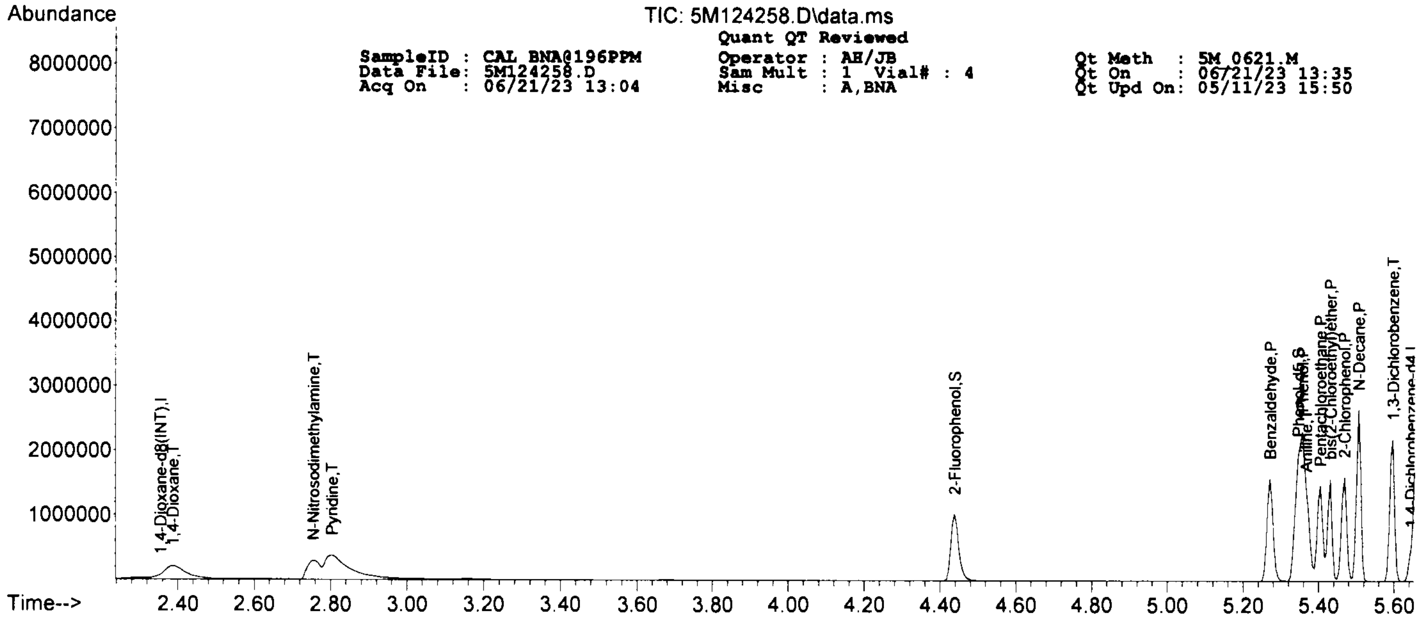
Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

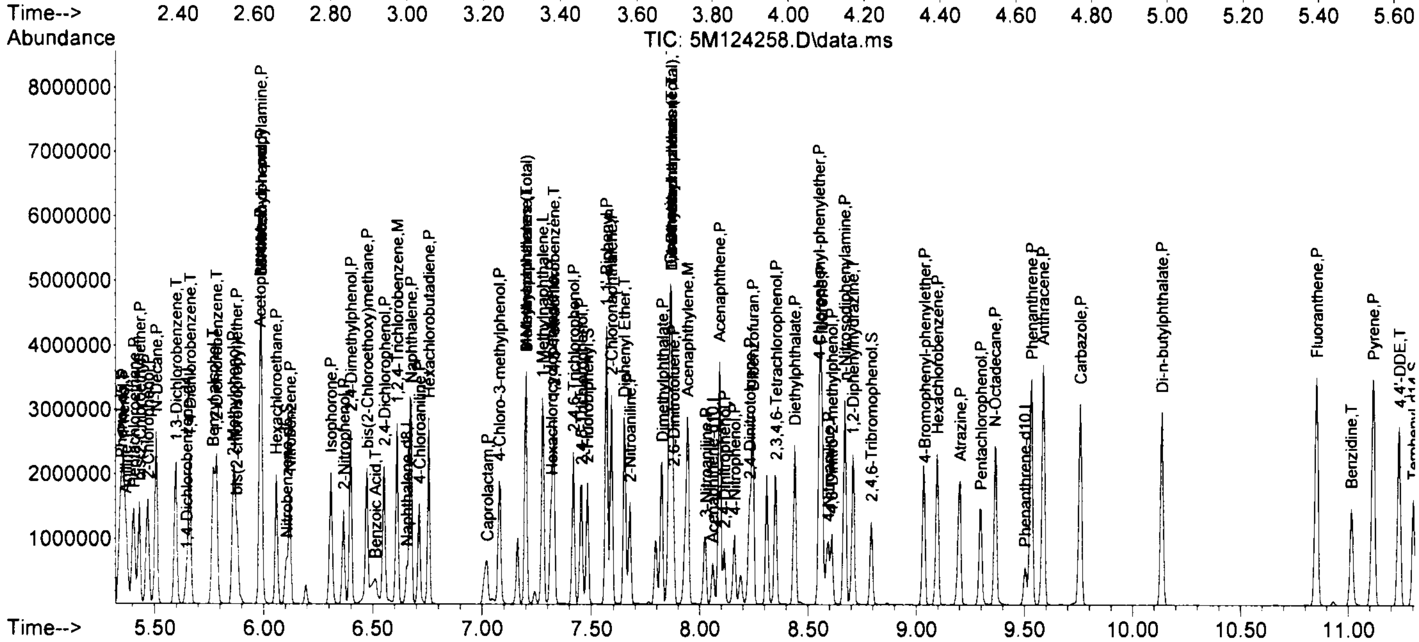
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.028	138	189691	189.0072	ng	71
67)	2,4-Dinitrophenol	8.114	184	120392	189.0158	ng	35
68)	Dibenzofuran	8.247	168	1175946	208.2368	ng	83
69)	2,4-Dinitrotoluene	8.231	165	284788	227.7783	ng	62
70)	4-Nitrophenol	8.162	65	159330	184.7064	ng	86
71)	2,3,4,6-Tetrachlorophenol	8.354	232	258927	233.5719	ng	82
72)	Fluorene	8.563	166	995184	219.1350	ng	98
73)	4-Chlorophenyl-phenyle...	8.552	204	504779	228.3445	ng	80
74)	Diethylphthalate	8.440	149	904529	220.8289	ng	96
75)	4-Nitroaniline	8.595	138	235496	212.1283	ng	72
76)	Atrazine	9.204	200	266885	225.4530	ng	94
78)	4,6-Dinitro-2-methylph...	8.611	198	162383	185.5328	ng	71
79)	n-Nitrosodiphenylamine	8.669	169	820329	213.1670	ng	98
81)	1,2-Diphenylhydrazine	8.707	77	983058	215.4946	ng	83
82)	4-Bromophenyl-phenylether	9.038	248	291647	216.6712	ng	76
83)	Hexachlorobenzene	9.097	284	304769	213.3283	ng	66
84)	N-Octadecane	9.364	57	441828	208.8835	ng	68
85)	Pentachlorophenol	9.300	266	195264	193.8141	ng	96
86)	Phenanthrene	9.535	178	1400654	205.8361	ng	99
87)	Anthracene	9.588	178	1431468	209.6892	ng	97
88)	Carbazole	9.759	167	1332020	212.0362	ng	97
89)	Di-n-butylphthalate	10.139	149	1608102	229.2723	ng	97
90)	Fluoranthene	10.854	202	1557412	209.7909	ng	94
92)	Pyrene	11.116	202	1634903	211.1384	ng	92
93)	Benzidine	11.015	184	639674	171.5144	ng	87
95)	4,4'-DDE	11.239	246	364444	224.0197	ng	96
96)	4,4'-DDD	11.634	235	647935	224.2709	ng	97
97)	Butylbenzylphthalate	11.896	149	702161	223.3288	ng	71
98)	4,4'-DDT	11.992	235	531668	230.7994	ng	98
99)	3,3'-Dichlorobenzidine	12.516	252	447685	188.9628	ng	96
100)	Benzo[a]anthracene	12.537	228	1560501	208.3030	ng	97
101)	Chrysene	12.585	228	1456019	212.4045	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.591	149	990318	225.1200	ng	91
104)	Di-n-octylphthalate	13.339	149	1710787	229.1346	ng	99
105)	Benzo[b]fluoranthene	13.750	252	1554515m	219.6732	ng	
106)	Benzo[k]fluoranthene	13.782	252	1446372m	214.1130	ng	
107)	Benzo[a]pyrene	14.092	252	1335950	221.5032	ng	94
108)	Indeno[1,2,3-cd]pyrene	15.395	276	1705613	224.8748	ng	87
109)	Dibenzo[a,h]anthracene	15.417	278	1407506	224.7640	ng	94
110)	Benzo[g,h,i]perylene	15.748	276	1304888	214.4475	ng	77

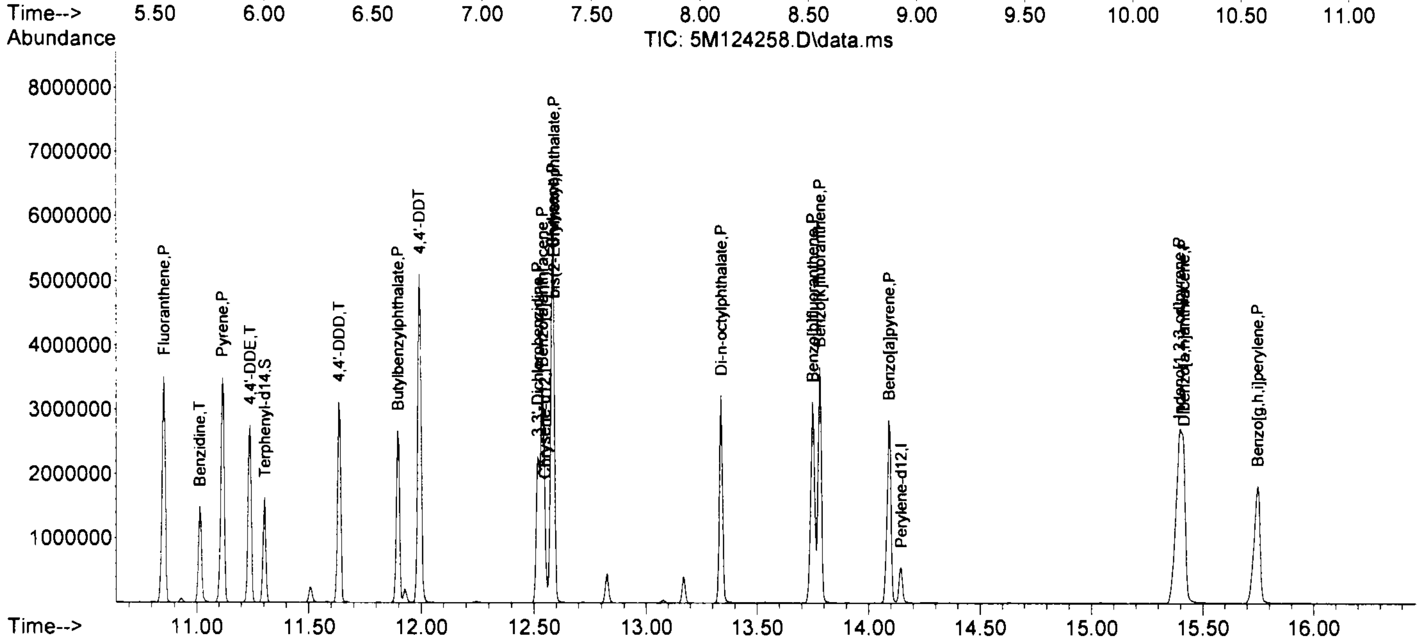
(#) = qualifier out of range (m) = manual integration (+) = signals summed

TIC: 5M124258.D\data.ms
Quant QT Reviewed

SampleID	: CAL BNA@196PPM	Operator	: AH/JB	Qt Meth	: 5M_0621.M
Data File	: 5M124258.D	Sam Mult	: 1 Vial# : 4	Qt On	: 06/21/23 13:35
Acq On	: 06/21/23 13:04	Misc	: A,BNA	Qt Upd On	: 05/11/23 15:50







Quantitation Report (QT Reviewed)

SampleID : CAL BNA@0.5PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124263.D Sam Mult : 1 Vial# : 9 Qt On : 06/21/23 15:37
Acq On : 06/21/23 15:03 Misc : A,BNA Qt Upd On: 05/11/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.355	96	50767	40.00	ng	-0.05
21) 1,4-Dichlorobenzene-d4	5.640	152	75450	40.00	ng	-0.03
31) Naphthalene-d8	6.650	136	262081	40.00	ng	-0.03
50) Acenaphthene-d10	8.055	164	147339	40.00	ng	-0.04
77) Phenanthrene-d10	9.497	188	260497	40.00	ng	-0.04
91) Chrysene-d12	12.537	240	236420	40.00	ng	-0.05
103) Perylene-d12	14.140	264	228305	40.00	ng	-0.05
System Monitoring Compounds						
11) 2-Fluorophenol	0.000	112	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
16) Phenol-d5	0.000	99	0d	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
32) Nitrobenzene-d5	0.000	128	0	0.00	ng	
Spiked Amount 50.000			Recovery =	0.00%		
55) 2-Fluorobiphenyl	0.000	172	0d	0.00	ng	
Spiked Amount 50.000			Recovery =	0.00%		
80) 2,4,6-Tribromophenol	0.000	330	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
94) Terphenyl-d14	0.000	244	0d	0.00	ng	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
8) 1,4-Dioxane	2.387	88	612m	0.4288	ng	
9) Pyridine	0.000		0	N.D.	d	
10) N-Nitrosodimethylamine	0.000		0	N.D.	d	
12) Benzaldehyde	0.000		0	N.D.	d	
13) Aniline	5.363	93	1694m	0.4906	ng	
14) Pentachloroethane	0.000		0	N.D.	d	
15) bis(2-Chloroethyl)ether	5.421	93	1515	0.6261	ng	80
17) Phenol	0.000		0	N.D.	d	
18) 2-Chlorophenol	0.000		0	N.D.	d	
19) N-Decane	0.000		0	N.D.	d	
20) 1,3-Dichlorobenzene	0.000		0	N.D.		
22) 1,4-Dichlorobenzene	0.000		0	N.D.	d	
23) 1,2-Dichlorobenzene	0.000		0	N.D.	d	
24) Benzyl alcohol	0.000		0	N.D.	d	
25) bis(2-chloroisopropyl)...	0.000		0	N.D.	d	
26) 2-Methylphenol	5.859	108	1130	0.4837	ng	89
27) Acetophenone	0.000		0	N.D.	d	
28) Hexachloroethane	0.000		0	N.D.	d	
29) N-Nitroso-di-n-propyla...	5.972	70	947	0.5471	ng	72
30) 3&4-Methylphenol	5.982	108	1111	0.4646	ng	87
33) Nitrobenzene	0.000		0	N.D.	d	
34) Isophorone	0.000		0	N.D.	d	
35) 2-Nitrophenol	0.000		0	N.D.	d	
36) 2,4-Dimethylphenol	6.394	107	1176m	0.5071	ng	
37) Benzoic Acid	0.000		0	N.D.		
38) bis(2-Chloroethoxy)met...	0.000		0	N.D.	d	
39) 2,4-Dichlorophenol	6.549	162	987	0.4853	ng	80
40) 1,2,4-Trichlorobenzene	0.000		0	N.D.	d	
41) Naphthalene	6.666	128	4624	0.6279	ng	97
42) 4-Chloroaniline	6.709	127	1241	0.4815	ng	92
43) Hexachlorobutadiene	0.000		0	N.D.	d	
44) Caprolactam	0.000		0	N.D.		
45) 4-Chloro-3-methylphenol	0.000		0	N.D.	d	
46) 2-Methylnaphthalene	0.000		0	N.D.	d	
47) 1-Methylnaphthalene	0.000		0	N.D.	d	
48) Methylnaphthalenes (To...	0.000		0	N.D.	d	
49) 1,1'-Biphenyl	0.000		0	N.D.	d	
51) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.	d	
52) Hexachlorocyclopentadiene	0.000		0	N.D.		
53) 2,4,6-Trichlorophenol	0.000		0	N.D.	d	
54) 2,4,5-Trichlorophenol	0.000		0	N.D.	d	
56) 2-Chloronaphthalene	0.000		0	N.D.	d	
57) 1,4-Dimethylnaphthalene	0.000		0	N.D.	d	
58) Dimethylnaphthalenes (...	0.000		0	N.D.	d	
59) Diphenyl Ether	0.000		0	N.D.	d	
60) 2-Nitroaniline	0.000		0	N.D.		
61) Coumarin	0.000		0	N.D.	d	
62) Acenaphthylene	0.000		0	N.D.	d	
63) Dimethylphthalate	0.000		0	N.D.	d	
64) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
65) Acenaphthene	0.000		0	N.D.	d	

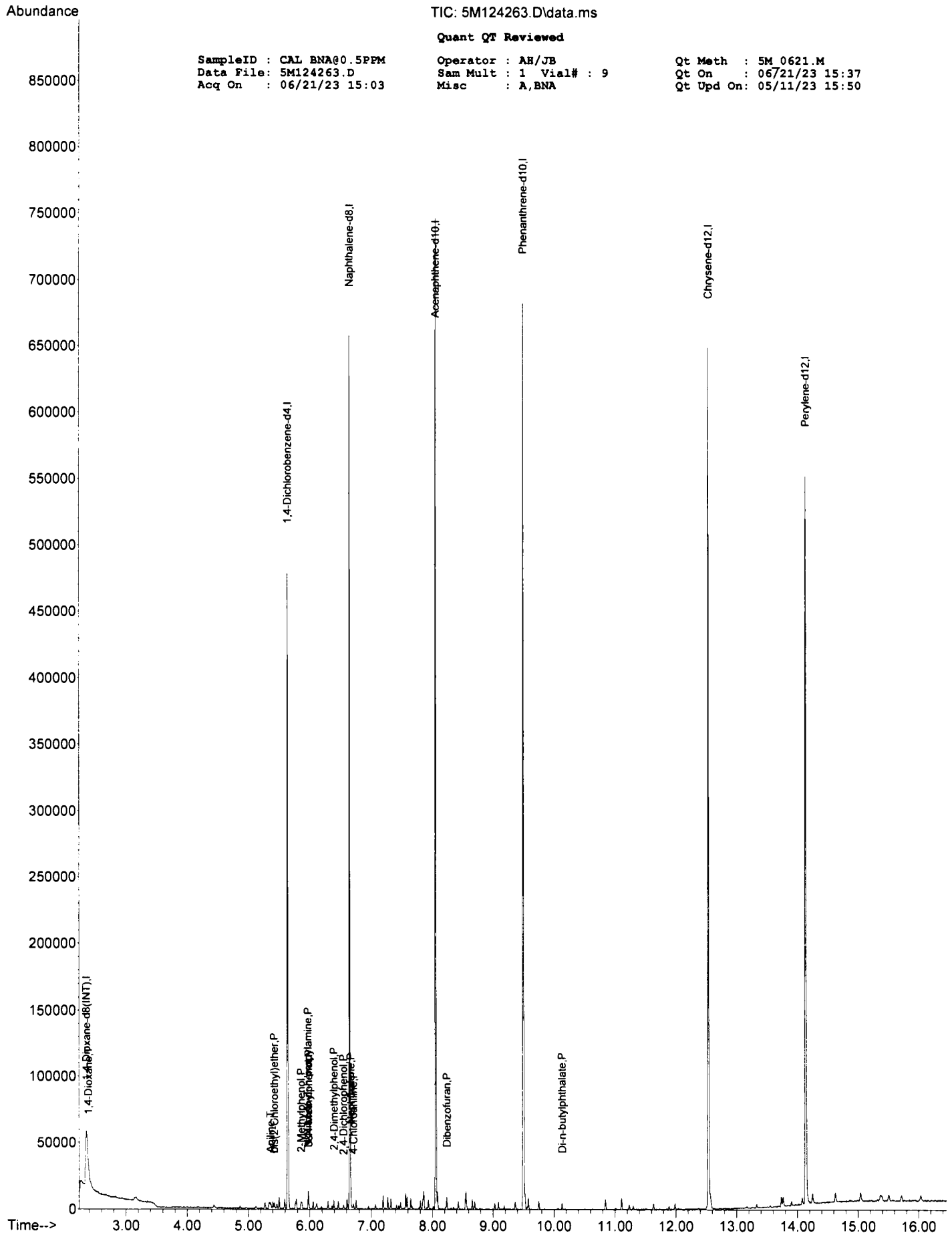
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@0.5PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124263.D Sam Mult : 1 Vial# : 9 Qt On : 06/21/23 15:37
Acq On : 06/21/23 15:03 Misc : A,BNA Qt Upd On: 05/11/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) 3-Nitroaniline	0.000		0	N.D.		
67) 2,4-Dinitrophenol	0.000		0	N.D.		
68) Dibenzofuran	8.237	168	3965	0.6128	ng	81
69) 2,4-Dinitrotoluene	0.000		0	N.D. d		
70) 4-Nitrophenol	0.000		0	N.D. d		
71) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
72) Fluorene	0.000		0	N.D. d		
73) 4-Chlorophenyl-phenyle...	0.000		0	N.D. d		
74) Diethylphthalate	0.000		0	N.D. d		
75) 4-Nitroaniline	0.000		0	N.D.		
76) Atrazine	0.000		0	N.D. d		
78) 4,6-Dinitro-2-methylph...	0.000		0	N.D.		
79) n-Nitrosodiphenylamine	0.000		0	N.D. d		
81) 1,2-Diphenylhydrazine	0.000		0	N.D. d		
82) 4-Bromophenyl-phenylether	0.000		0	N.D. d		
83) Hexachlorobenzene	0.000		0	N.D. d		
84) N-Octadecane	0.000		0	N.D. d		
85) Pentachlorophenol	0.000		0	N.D.		
86) Phenanthrene	0.000		0	N.D. d		
87) Anthracene	0.000		0	N.D. d		
88) Carbazole	0.000		0	N.D. d		
89) Di-n-butylphthalate	10.133	149	2865	0.3731	ng	98
90) Fluoranthene	0.000		0	N.D. d		
92) Pyrene	0.000		0	N.D. d		
93) Benzidine	0.000		0	N.D. d		
95) 4,4'-DDE	0.000		0	N.D. d		
96) 4,4'-DDD	0.000		0	N.D. d		
97) Butylbenzylphthalate	0.000		0	N.D. d		
98) 4,4'-DDT	0.000		0	N.D. d		
99) 3,3'-Dichlorobenzidine	0.000		0	N.D. d		
100) Benzo[a]anthracene	0.000		0	N.D. d		
101) Chrysene	0.000		0	N.D. d		
102) bis(2-Ethylhexyl)phtha...	0.000		0	N.D. d		
104) Di-n-octylphthalate	0.000		0	N.D. d		
105) Benzo[b]fluoranthene	0.000		0	N.D. d		
106) Benzo[k]fluoranthene	0.000		0	N.D. d		
107) Benzo[a]pyrene	0.000		0	N.D. d		
108) Indeno[1,2,3-cd]pyrene	0.000		0	N.D. d		
109) Dibenzo[a,h]anthracene	0.000		0	N.D. d		
110) Benzo[g,h,i]perylene	0.000		0	N.D. d		

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M124263.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@0.5PPM
Data File: 5M124263.D
Acq On : 06/21/23 15:03
Operator : AH/JB
Sam Mult : 1 Vial# : 9
Misc : A,BNA
Qt Meth : 5M_0621.M
Qt On : 06/21/23 15:37
Qt Upd On: 05/11/23 15:50
850000
800000
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
1,4-Dioxane-d8(INT),I
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Chrysene-d12,I
Perylene-d12,I
Bis(2-Chloroethyl)ether,P
2-Methylphenol,P
2,4-Dimethylphenol,P
2,4-Dichlorophenol,P
Dibenzofuran,P
Di-n-butylphthalate,P
Time-->
3.00
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
16.00

TxtDfile: 5M124265.D ICV FORM Date/Time: 06/21/23 15:55

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
1.4-Dioxane	1	0		51.8289	50	104		70	130
Pyridine	1	0		48.3327	50	97		50	150
N-Nitrosodimethylamine	1	0		47.1991	50	94		70	130
Benzaldehyde	1	0		31.5643	50	63		50	150
Aniline	1	0		55.0473	50	110		50	150
Pentachloroethane	1	0		46.4125	50	93		70	130
bis(2-Chloroethyl)ether	1	0		44.5353	50	89		70	130
Phenol	1	0		46.1545	50	92		70	130
2-Chlorophenol	1	0		45.3955	50	91		70	130
1.3-Dichlorobenzene	1	0		45.6264	50	91		70	130
1.4-Dichlorobenzene	1	0		46.9121	50	94		70	130
1.2-Dichlorobenzene	1	0		46.8721	50	94		70	130
Benzyl alcohol	1	0		47.8142	50	96		70	130
bis(2-chloroisopropyl)ether	1	0		47.4486	50	95		70	130
2-Methylphenol	1	0		47.9564	50	96		70	130
Acetophenone	1	0		56.1514	50	112		70	130
Hexachloroethane	1	0		46.2626	50	93		70	130
N-Nitroso-di-n-propylamine	1	0		49.1698	50	98		70	130
3&4-Methylphenol	1	0		51.1805	50	102		70	130
Nitrobenzene	1	0		46.7757	50	94		70	130
Isophorone	1	0		48.395	50	97		70	130
2-Nitrophenol	1	0		49.0765	50	98		70	130
2.4-Dimethylphenol	1	0		46.4896	50	93		70	130
Benzoic Acid	1	0		74.5942	50	149		50	190
bis(2-Chloroethoxy)methane	1	0		48.2963	50	97		70	130
2.4-Dichlorophenol	1	0		47.1016	50	94		70	130
1.2.4-Trichlorobenzene	1	0		48.412	50	97		70	130
Naphthalene	1	0		44.5936	50	89		70	130
4-Chloroaniline	1	0		56.3747	50	113		50	150
Hexachlorobutadiene	1	0		48.937	50	98		70	130
Caprolactam	1	0		58.6816	50	117		70	130
4-Chloro-3-methylphenol	1	0		47.0158	50	94		70	130
2-Methylnaphthalene	1	0		47.9989	50	96		70	130
1-Methylnaphthalene	1	0		59.8193	50	120		70	130
1.1'-Biphenyl	1	0		47.5762	50	95		70	130
1.2.4.5-Tetrachlorobenzene	1	0		55.8307	50	112		70	130
Hexachlorocyclopentadiene	1	0		57.1641	50	114		70	130
2.4.6-Trichlorophenol	1	0		47.696	50	95		70	130
2.4.5-Trichlorophenol	1	0		49.4943	50	99		70	130
2-Chloronaphthalene	1	0		47.6022	50	95		70	130
1.4-Dimethylnaphthalene	1	0		47.9231	50	96		70	130
Diphenyl Ether	1	0		55.9521	50	112		70	130
2-Nitroaniline	1	0		52.0206	50	104		70	130
Acenaphthylene	1	0		53.5093	50	107		70	130
Dimethylphthalate	1	0		46.7056	50	93		70	130
2.6-Dinitrotoluene	1	0		47.3986	50	95		70	130
Acenaphthene	1	0		46.6834	50	93		70	130
3-Nitroaniline	1	0		53.1445	50	106		70	130
2.4-Dinitrophenol	1	0		54.5036	50	109		70	130
Dibenzofuran	1	0		45.983	50	92		70	130
2.4-Dinitrotoluene	1	0		49.843	50	100		70	130
4-Nitrophenol	1	0		49.6474	50	99		70	130
2.3.4.6-Tetrachlorophenol	1	0		47.4665	50	95		70	130
Fluorene	1	0		48.998	50	98		70	130
4-Chlorophenyl-phenylether	1	0		47.8547	50	96		70	130
Diethylphthalate	1	0		48.258	50	97		70	130
4-Nitroaniline	1	0		51.5684	50	103		70	130
Atrazine	1	0		59.5534	50	119		70	130
4.6-Dinitro-2-methylphenol	1	0		57.4402	50	115		70	130
n-Nitrosodiphenylamine	1	0		39.7838	50	80		70	130
1.2-Diphenylhydrazine	1	0		43.446	50	87		70	130
4-Bromophenyl-phenylether	1	0		47.0589	50	94		70	130
Hexachlorobenzene	1	0		46.0176	50	92		70	130
Pentachlorophenol	1	0		55.4877	50	111		70	130
Phenanthrene	1	0		45.99	50	92		70	130
Anthracene	1	0		47.1485	50	94		70	130
Carbazole	1	0		47.5309	50	95		70	130
Di-n-butylphthalate	1	0		49.8325	50	100		70	130
Fluoranthene	1	0		48.1539	50	96		70	130
Pyrene	1	0		47.2715	50	95		70	130
Benzidine	1	0		48.9345	50	98		30	150
Butylbenzylphthalate	1	0		49.7159	50	99		70	130
3.3'-Dichlorobenzidine	1	0		51.7171	50	103		50	150
Benzo[a]anthracene	1	0		47.2106	50	94		70	130
Chrysene	1	0		47.7436	50	95		70	130
bis(2-Ethylhexyl)phthalate	1	0		48.5563	50	97		70	130
Di-n-octylphthalate	1	0		52.0239	50	104		70	130
Benzo[b]fluoranthene	1	0		48.7825	50	98		70	130
Benzo[k]fluoranthene	1	0		51.0531	50	102		70	130
Benzo[a]pyrene	1	0		52.1784	50	104		70	130
Indeno[1.2.3-cd]pyrene	1	0		49.1172	50	98		70	130
Dibenzo[a.h]anthracene	1	0		49.4139	50	99		70	130
Benzo[g.h.i]perylene	1	0		50.4801	50	101		70	130

TxtDfile: 7M129294.D ICV FORM Date/Time: 06/19/23 13:32

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
1.4-Dioxane	1	0		50.7173	50	101		70	130
Pyridine	1	0		50.6578	50	101		50	150
N-Nitrosodimethylamine	1	0		47.5995	50	95		70	130
Benzaldehyde	1	0		36.0678	50	72		50	150
Aniline	1	0		53.5065	50	107		50	150
Pentachloroethane	1	0		47.4877	50	95		70	130
bis(2-Chloroethyl)ether	1	0		48.6683	50	97		70	130
Phenol	1	0		49.5556	50	99		70	130
2-Chlorophenol	1	0		47.6295	50	95		70	130
1.3-Dichlorobenzene	1	0		47.1705	50	94		70	130
1.4-Dichlorobenzene	1	0		48.009	50	96		70	130
1.2-Dichlorobenzene	1	0		47.9817	50	96		70	130
Benzyl alcohol	1	0		48.3272	50	97		70	130
bis(2-chloroisopropyl)ether	1	0		49.4431	50	99		70	130
2-Methylphenol	1	0		48.7746	50	98		70	130
Acetophenone	1	0		51.2693	50	103		70	130
Hexachloroethane	1	0		47.6553	50	95		70	130
N-Nitroso-di-n-propylamine	1	0		47.0281	50	94		70	130
3&4-Methylphenol	1	0		48.4474	50	97		70	130
Nitrobenzene	1	0		48.1688	50	96		70	130
Isophorone	1	0		47.6505	50	95		70	130
2-Nitrophenol	1	0		49.8437	50	100		70	130
2.4-Dimethylphenol	1	0		47.0098	50	94		70	130
Benzoic Acid	1	0		75.7778	50	152		50	190
bis(2-Chloroethoxy)methane	1	0		48.7382	50	97		70	130
2.4-Dichlorophenol	1	0		47.8914	50	96		70	130
1.2.4-Trichlorobenzene	1	0		47.4741	50	95		70	130
Naphthalene	1	0		45.4483	50	91		70	130
4-Chloroaniline	1	0		49.9808	50	100		50	150
Hexachlorobutadiene	1	0		48.9552	50	98		70	130
Caprolactam	1	0		51.4346	50	103		70	130
4-Chloro-3-methylphenol	1	0		48.083	50	96		70	130
2-Methylnaphthalene	1	0		48.7442	50	97		70	130
1-Methylnaphthalene	1	0		58.9915	50	118		70	130
1.1'-Biphenyl	1	0		48.1498	50	96		70	130
1.2.4.5-Tetrachlorobenzene	1	0		52.1449	50	104		70	130
Hexachlorocyclopentadiene	1	0		56.2496	50	112		70	130
2.4.6-Trichlorophenol	1	0		46.6454	50	93		70	130
2.4.5-Trichlorophenol	1	0		49.8472	50	100		70	130
2-Chloronaphthalene	1	0		48.3467	50	97		70	130
1.4-Dimethylnaphthalene	1	0		48.538	50	97		70	130
Diphenyl Ether	1	0		51.3426	50	103		70	130
2-Nitroaniline	1	0		48.9137	50	98		70	130
Acenaphthylene	1	0		54.3497	50	109		70	130
Dimethylphthalate	1	0		48.1694	50	96		70	130
2.6-Dinitrotoluene	1	0		47.9732	50	96		70	130
Acenaphthene	1	0		47.229	50	94		70	130
3-Nitroaniline	1	0		48.3291	50	97		70	130
2.4-Dinitrophenol	1	0		56.6252	50	113		70	130
Dibenzofuran	1	0		47.6741	50	95		70	130
2.4-Dinitrotoluene	1	0		47.9749	50	96		70	130
4-Nitrophenol	1	0		48.5614	50	97		70	130
2.3.4.6-Tetrachlorophenol	1	0		47.6411	50	95		70	130
Fluorene	1	0		48.6611	50	97		70	130
4-Chlorophenyl-phenylether	1	0		48.5736	50	97		70	130
Diethylphthalate	1	0		49.0384	50	98		70	130
4-Nitroaniline	1	0		48.8987	50	98		70	130
Atrazine	1	0		51.5187	50	103		70	130
4.6-Dinitro-2-methylphenol	1	0		58.2854	50	117		70	130
n-Nitrosodiphenylamine	1	0		40.8767	50	82		70	130
1.2-Diphenylhydrazine	1	0		49.0887	50	98		70	130
4-Bromophenyl-phenylether	1	0		48.5599	50	97		70	130
Hexachlorobenzene	1	0		47.6442	50	95		70	130
Pentachlorophenol	1	0		54.6393	50	109		70	130
Phenanthrene	1	0		46.9967	50	94		70	130
Anthracene	1	0		48.4348	50	97		70	130
Carbazole	1	0		49.038	50	98		70	130
Di-n-butylphthalate	1	0		49.1862	50	98		70	130
Fluoranthene	1	0		49.207	50	98		70	130
Pyrene	1	0		47.4783	50	95		70	130
Benzidine	1	0		40.6828	50	81		30	150
Butylbenzylphthalate	1	0		49.9151	50	100		70	130
3.3'-Dichlorobenzidine	1	0		45.1775	50	90		50	150
Benzo[a]anthracene	1	0		46.835	50	94		70	130
Chrysene	1	0		46.9952	50	94		70	130
bis(2-Ethylhexyl)phthalate	1	0		49.0356	50	98		70	130
Di-n-octylphthalate	1	0		49.4377	50	99		70	130
Benzo[b]fluoranthene	1	0		47.7723	50	96		70	130
Benzo[k]fluoranthene	1	0		47.8408	50	96		70	130
Benzo[a]pyrene	1	0		50.7461	50	101		70	130
Indeno[1.2.3-cd]pyrene	1	0		47.9216	50	96		70	130
Dibenzo[a.h]anthracene	1	0		48.1449	50	96		70	130
Benzo[g.h.i]perylene	1	0		48.9285	50	98		70	130

TxtDfile: 10M97600.D ICV FORM Date/Time: 06/19/23 13:27

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
1.4-Dioxane	1	0		49.823	50	100		70	130
Pyridine	1	0		52.5976	50	105		50	150
N-Nitrosodimethylamine	1	0		47.8866	50	96		70	130
Benzaldehyde	1	0		36.6282	50	73		50	150
Aniline	1	0		54.6716	50	109		50	150
Pentachloroethane	1	0		48.2006	50	96		70	130
bis(2-Chloroethyl)ether	1	0		49.1856	50	98		70	130
Phenol	1	0		48.2151	50	96		70	130
2-Chlorophenol	1	0		48.105	50	96		70	130
1.3-Dichlorobenzene	1	0		48.3438	50	97		70	130
1.4-Dichlorobenzene	1	0		47.6336	50	95		70	130
1.2-Dichlorobenzene	1	0		47.3602	50	95		70	130
Benzyl alcohol	1	0		49.044	50	98		70	130
bis(2-chloroisopropyl)ether	1	0		48.5365	50	97		70	130
2-Methylphenol	1	0		48.7934	50	98		70	130
Acetophenone	1	0		54.6084	50	109		70	130
Hexachloroethane	1	0		48.2271	50	96		70	130
N-Nitroso-di-n-propylamine	1	0		51.7754	50	104		70	130
3&4-Methylphenol	1	0		53.0374	50	106		70	130
Nitrobenzene	1	0		48.635	50	97		70	130
Isophorone	1	0		48.4421	50	97		70	130
2-Nitrophenol	1	0		49.8261	50	100		70	130
2.4-Dimethylphenol	1	0		48.4754	50	97		70	130
Benzoic Acid	1	0		69.0602	50	138		50	190
bis(2-Chloroethoxy)methane	1	0		48.9853	50	98		70	130
2.4-Dichlorophenol	1	0		50.6011	50	101		70	130
1.2.4-Trichlorobenzene	1	0		47.6761	50	95		70	130
Naphthalene	1	0		47.6002	50	95		70	130
4-Chloroaniline	1	0		52.5179	50	105		50	150
Hexachlorobutadiene	1	0		49.1282	50	98		70	130
Caprolactam	1	0		54.4	50	109		70	130
4-Chloro-3-methylphenol	1	0		48.0661	50	96		70	130
2-Methylnaphthalene	1	0		49.2877	50	99		70	130
1-Methylnaphthalene	1	0		60.3859	50	121		70	130
1.1'-Biphenyl	1	0		48.5252	50	97		70	130
1.2.4.5-Tetrachlorobenzene	1	0		51.8328	50	104		70	130
Hexachlorocyclopentadiene	1	0		51.5566	50	103		70	130
2.4.6-Trichlorophenol	1	0		49.0743	50	98		70	130
2.4.5-Trichlorophenol	1	0		47.1343	50	94		70	130
2-Chloronaphthalene	1	0		47.8468	50	96		70	130
1.4-Dimethylnaphthalene	1	0		50.348	50	101		70	130
Diphenyl Ether	1	0		52.4568	50	105		70	130
2-Nitroaniline	1	0		50.4976	50	101		70	130
Acenaphthylene	1	0		53.2953	50	107		70	130
Dimethylphthalate	1	0		47.1515	50	94		70	130
2.6-Dinitrotoluene	1	0		49.6297	50	99		70	130
Acenaphthene	1	0		47.3024	50	95		70	130
3-Nitroaniline	1	0		48.8427	50	98		70	130
2.4-Dinitrophenol	1	0		53.1274	50	106		70	130
Dibenzofuran	1	0		47.1033	50	94		70	130
2.4-Dinitrotoluene	1	0		47.8352	50	96		70	130
4-Nitrophenol	1	0		52.1559	50	104		70	130
2.3.4.6-Tetrachlorophenol	1	0		46.8054	50	94		70	130
Fluorene	1	0		49.4199	50	99		70	130
4-Chlorophenyl-phenylether	1	0		48.2065	50	96		70	130
Diethylphthalate	1	0		47.9791	50	96		70	130
4-Nitroaniline	1	0		50.4045	50	101		70	130
Atrazine	1	0		53.1761	50	106		70	130
4.6-Dinitro-2-methylphenol	1	0		54.7134	50	109		70	130
n-Nitrosodiphenylamine	1	0		40.2061	50	80		70	130
1.2-Diphenylhydrazine	1	0		46.5887	50	93		70	130
4-Bromophenyl-phenylether	1	0		47.7501	50	96		70	130
Hexachlorobenzene	1	0		45.6427	50	91		70	130
Pentachlorophenol	1	0		55.209	50	110		70	130
Phenanthrene	1	0		46.9484	50	94		70	130
Anthracene	1	0		48.4118	50	97		70	130
Carbazole	1	0		48.4817	50	97		70	130
Di-n-butylphthalate	1	0		51.0431	50	102		70	130
Fluoranthene	1	0		48.6802	50	97		70	130
Pyrene	1	0		48.773	50	98		70	130
Benzidine	1	0		42.9521	50	86		30	150
Butylbenzylphthalate	1	0		50.7391	50	101		70	130
3.3'-Dichlorobenzidine	1	0		45.4744	50	91		50	150
Benzo[a]anthracene	1	0		48.1442	50	96		70	130
Chrysene	1	0		49.2275	50	98		70	130
bis(2-Ethylhexyl)phthalate	1	0		50.4468	50	101		70	130
Di-n-octylphthalate	1	0		48.9284	50	98		70	130
Benzo[b]fluoranthene	1	0		45.4107	50	91		70	130
Benzo[k]fluoranthene	1	0		46.7136	50	93		70	130
Benzo[a]pyrene	1	0		51.079	50	102		70	130
Indeno[1.2.3-cd]pyrene	1	0		47.0535	50	94		70	130
Dibenzo[a.h]anthracene	1	0		47.7616	50	96		70	130
Benzo[g.h.i]perylene	1	0		48.242	50	96		70	130

TxtDfile: 9M122397.D ICV FORM Date/Time: 06/21/23 15:07

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
1.4-Dioxane	1	0		49.9074	50	100		70	130
Pyridine	1	0		50.1076	50	100		50	150
N-Nitrosodimethylamine	1	0		46.905	50	94		70	130
Benzaldehyde	1	0		31.2717	50	63		50	150
Aniline	1	0		53.2144	50	106		50	150
Pentachloroethane	1	0		48.2821	50	97		70	130
bis(2-Chloroethyl)ether	1	0		46.4318	50	93		70	130
Phenol	1	0		46.5316	50	93		70	130
2-Chlorophenol	1	0		47.2314	50	94		70	130
1.3-Dichlorobenzene	1	0		47.0037	50	94		70	130
1.4-Dichlorobenzene	1	0		47.1125	50	94		70	130
1.2-Dichlorobenzene	1	0		48.097	50	96		70	130
Benzyl alcohol	1	0		50.1317	50	100		70	130
bis(2-chloroisopropyl)ether	1	0		49.4169	50	99		70	130
2-Methylphenol	1	0		48.1086	50	96		70	130
Acetophenone	1	0		56.0343	50	112		70	130
Hexachloroethane	1	0		49.6391	50	99		70	130
N-Nitroso-di-n-propylamine	1	0		48.1014	50	96		70	130
3&4-Methylphenol	1	0		49.6531	50	99		70	130
Nitrobenzene	1	0		48.1836	50	96		70	130
Isophorone	1	0		48.4352	50	97		70	130
2-Nitrophenol	1	0		48.7115	50	97		70	130
2.4-Dimethylphenol	1	0		47.5016	50	95		70	130
Benzoic Acid	1	0		72.9617	50	146		50	190
bis(2-Chloroethoxy)methane	1	0		48.8201	50	98		70	130
2.4-Dichlorophenol	1	0		47.4136	50	95		70	130
1.2.4-Trichlorobenzene	1	0		48.1077	50	96		70	130
Naphthalene	1	0		45.407	50	91		70	130
4-Chloroaniline	1	0		52.2375	50	104		50	150
Hexachlorobutadiene	1	0		49.3493	50	99		70	130
Caprolactam	1	0		55.7269	50	111		70	130
4-Chloro-3-methylphenol	1	0		47.6911	50	95		70	130
2-Methylnaphthalene	1	0		48.152	50	96		70	130
1-Methylnaphthalene	1	0		59.28	50	119		70	130
1.1'-Biphenyl	1	0		48.165	50	96		70	130
1.2.4.5-Tetrachlorobenzene	1	0		55.1566	50	110		70	130
Hexachlorocyclopentadiene	1	0		52.1774	50	104		70	130
2.4.6-Trichlorophenol	1	0		47.5921	50	95		70	130
2.4.5-Trichlorophenol	1	0		45.8848	50	92		70	130
2-Chloronaphthalene	1	0		48.1676	50	96		70	130
1.4-Dimethylnaphthalene	1	0		48.7795	50	98		70	130
Diphenyl Ether	1	0		55.2906	50	111		70	130
2-Nitroaniline	1	0		50.8545	50	102		70	130
Acenaphthylene	1	0		53.7563	50	108		70	130
Dimethylphthalate	1	0		47.8272	50	96		70	130
2.6-Dinitrotoluene	1	0		47.1621	50	94		70	130
Acenaphthene	1	0		47.6868	50	95		70	130
3-Nitroaniline	1	0		51.8563	50	104		70	130
2.4-Dinitrophenol	1	0		52.4244	50	105		70	130
Dibenzofuran	1	0		45.4693	50	91		70	130
2.4-Dinitrotoluene	1	0		49.8092	50	100		70	130
4-Nitrophenol	1	0		48.6627	50	97		70	130
2.3.4.6-Tetrachlorophenol	1	0		48.2631	50	97		70	130
Fluorene	1	0		48.9532	50	98		70	130
4-Chlorophenyl-phenylether	1	0		48.3747	50	97		70	130
Diethylphthalate	1	0		48.188	50	96		70	130
4-Nitroaniline	1	0		50.6795	50	101		70	130
Atrazine	1	0		56.3306	50	113		70	130
4.6-Dinitro-2-methylphenol	1	0		53.9021	50	108		70	130
n-Nitrosodiphenylamine	1	0		40.4981	50	81		70	130
1.2-Diphenylhydrazine	1	0		46.1893	50	92		70	130
4-Bromophenyl-phenylether	1	0		47.7815	50	96		70	130
Hexachlorobenzene	1	0		46.7521	50	94		70	130
Pentachlorophenol	1	0		57.0282	50	114		70	130
Phenanthrene	1	0		46.7848	50	94		70	130
Anthracene	1	0		47.5753	50	95		70	130
Carbazole	1	0		48.0551	50	96		70	130
Di-n-butylphthalate	1	0		46.8767	50	94		70	130
Fluoranthene	1	0		48.0566	50	96		70	130
Pyrene	1	0		47.7113	50	95		70	130
Benzidine	1	0		49.415	50	99		30	150
Butylbenzylphthalate	1	0		50.6207	50	101		70	130
3.3'-Dichlorobenzidine	1	0		50.0568	50	100		50	150
Benzo[a]anthracene	1	0		48.2013	50	96		70	130
Chrysene	1	0		48.8204	50	98		70	130
bis(2-Ethylhexyl)phthalate	1	0		49.9712	50	100		70	130
Di-n-octylphthalate	1	0		50.9849	50	102		70	130
Benzo[b]fluoranthene	1	0		46.2805	50	93		70	130
Benzo[k]fluoranthene	1	0		50.9699	50	102		70	130
Benzo[a]pyrene	1	0		52.4027	50	105		70	130
Indeno[1.2.3-cd]pyrene	1	0		48.1852	50	96		70	130
Dibenzo[a.h]anthracene	1	0		49.2297	50	98		70	130
Benzo[g.h.i]perylene	1	0		48.606	50	97		70	130

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M97621.D **Instrument:** GCMS 10

Cont Calibration Date/Time 6/20/2023 9:04:00 A Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.67	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.72	46.70	50	**		1.100	1.027	6.60	
Pyridine	1	0		3.18	49.98	50	**		1.924	1.923	0.04	
N-Nitrosodimethylamine	1	0		3.12	49.69	50	**		1.542	1.533	0.63	
2-Fluorophenol	1	0	S	4.67	49.94	50	**		2.260	2.258	0.11	
Benzaldehyde	1	0		5.49	51.07	50	20	0.01	1.876	1.916	2.14	
Aniline	1	0		5.58	51.69	50	**		3.362	3.475	3.39	
Pentachloroethane	1	0		5.63	49.16	50	**	0.05	0.902	0.887	1.68	
bis(2-Chloroethyl)ether	1	0		5.64	51.15	50	20	0.7	2.462	2.519	2.29	
Phenol-d5	1	0	S	5.54	50.92	50	**		2.763	2.814	1.85	
Phenol	1	0		5.56	51.00	50	20	0.8	3.237	3.302	1.99	
2-Chlorophenol	1	0		5.68	50.81	50	20	0.8	2.441	2.481	1.61	
N-Decane	1	0		5.72	49.78	50	**	0.05	2.818	2.806	0.44	
1,3-Dichlorobenzene	1	0		5.81	50.10	50	**		2.651	2.657	0.20	
1,4-Dichlorobenzene-d4	1	0	I	5.86	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.87	49.94	50	20		1.565	1.564	0.11	
1,2-Dichlorobenzene	1	0		6.00	49.80	50	**		1.473	1.467	0.40	
Benzyl alcohol	1	0		5.97	50.58	50	**		0.935	0.946	1.16	
bis(2-chloroisopropyl)ether	1	0		6.08	49.81	50	20	0.01	1.992	1.984	0.39	
2-Methylphenol	1	0		6.06	50.85	50	20	0.7	1.286	1.308	1.71	
Acetophenone	1	0		6.19	52.97	50	20	0.01	1.900	2.013	5.95	
Hexachloroethane	1	0		6.27	49.36	50	20	0.3	0.598	0.590	1.27	
N-Nitroso-di-n-propylamine	1	0		6.18	54.17	50	20	0.5	0.944	1.022	8.33	
3&4-Methylphenol	1	0		6.18	54.79	50	20		1.278	1.401	9.58	
Naphthalene-d8	1	0	I	6.86	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.31	25.19	25	**		0.161	0.162	0.75	
Nitrobenzene	1	0		6.32	50.31	50	20	0.2	0.365	0.367	0.62	
Isophorone	1	0		6.50	50.54	50	20	0.4	0.671	0.678	1.09	
2-Nitrophenol	1	0		6.57	50.98	50	20	0.1	0.187	0.190	1.95	
2,4-Dimethylphenol	1	0		6.59	51.93	50	20	0.2	0.332	0.345	3.86	
Benzoic Acid	1	0		6.66	45.39	50	**		0.209	0.187	9.22	
bis(2-Chloroethoxy)methane	1	0		6.66	50.73	50	20	0.3	0.414	0.420	1.47	
2,4-Dichlorophenol	1	0		6.75	53.82	50	20	0.2	0.272	0.293	7.64	
1,2,4-Trichlorobenzene	1	0		6.81	49.89	50	**		0.301	0.300	0.22	
Naphthalene	1	0		6.88	50.51	50	20	0.7	1.071	1.082	1.03	
4-Chloroaniline	1	0		6.91	54.80	50	20	0.01	0.369	0.404	9.61	
Hexachlorobutadiene	1	0		6.96	50.88	50	20	0.01	0.155	0.157	1.76	
Caprolactam	1	0		7.19	51.37	50	20	0.01	0.118	0.121	2.73	
4-Chloro-3-methylphenol	1	0		7.27	50.78	50	20	0.2	0.289	0.294	1.56	
2-Methylnaphthalene	1	0		7.41	51.40	50	**	0.4	0.691	0.711	2.80	
1-Methylnaphthalene	1	0		7.49	51.15	50	**	0.4	0.657	0.672	2.31	
Methylnaphthalenes	1	0		7.41	103.09	50	**			1.383	106.17	
1,1'-Biphenyl	1	0		7.78	51.31	50	20	0.01	0.852	0.874	2.61	
Acenaphthene-d10	1	0	I	8.29	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.54	50.32	50	20	0.01	0.552	0.556	0.63	
Hexachlorocyclopentadiene	1	0		7.53	51.49	50	20	0.05	0.234	0.241	2.98	
2,4,6-Trichlorophenol	1	0		7.63	50.12	50	20	0.2	0.350	0.351	0.24	
2,4,5-Trichlorophenol	1	0		7.66	49.95	50	20	0.2	0.382	0.381	0.10	
2-Fluorobiphenyl	1	0	S	7.70	24.63	25	**		1.362	1.342	1.47	
2-Chloronaphthalene	1	0		7.81	49.83	50	20	0.8	1.161	1.157	0.34	
1,4-Dimethylnaphthalene	1	0		8.09	52.48	50	**		0.962	1.010	4.96	
Dimethylnaphthalenes	1	0		8.09	52.48	50	20			1.010	4.96	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M97621.D **Instrument:** GCMS 10

Cont Calibration Date/Time 6/20/2023 9:04:00 A Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.87	50.76	50	**		0.863	0.876	1.52	
2-Nitroaniline	1	0		7.88	52.07	50	20	0.01	0.411	0.428	4.15	
Coumarin	1	0		8.07	50.83		**		0.485			
Acenaphthylene	1	0		8.17	50.10	50	20	0.9	1.673	1.676	0.20	
Dimethylphthalate	1	0		8.03	50.42	50	20	0.01	1.270	1.281	0.83	
2,6-Dinitrotoluene	1	0		8.09	53.88	50	20	0.2	0.280	0.302	7.76	
Acenaphthene	1	0		8.32	50.71	50	20	0.9	1.151	1.168	1.42	
3-Nitroaniline	1	0		8.24	51.94	50	20	0.01	0.328	0.340	3.87	
2,4-Dinitrophenol	1	0		8.33	49.77	50	20	0.2	0.150	0.148	0.46	
Dibenzofuran	1	0		8.47	49.91	50	20	0.8	1.652	1.649	0.18	
2,4-Dinitrotoluene	1	0		8.45	50.84	50	20	0.2	0.383	0.389	1.68	
4-Nitrophenol	1	0		8.36	54.72	50	20	0.01	0.236	0.259	9.45	
2,3,4,6-Tetrachlorophenol	1	0		8.58	50.88	50	20	0.01	0.294	0.299	1.77	
Fluorene	1	0		8.79	51.37	50	20	0.9	1.342	1.379	2.75	
4-Chlorophenyl-phenylether	1	0		8.78	50.29	50	20	0.4	0.613	0.616	0.59	
Diethylphthalate	1	0		8.66	49.79	50	20	0.01	1.253	1.248	0.42	
4-Nitroaniline	1	0		8.80	52.68	50	20	0.01	0.357	0.376	5.35	
Atrazine	1	0		9.42	52.03	50	20	0.01	0.369	0.385	4.07	
Phenanthrene-d10	1	0	I	9.74	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.83	48.08	50	20	0.01	0.125	0.120	3.83	
n-Nitrosodiphenylamine	1	0		8.89	50.32	50	20	0.01	0.687	0.692	0.65	
2,4,6-Tribromophenol	1	0	S	9.03	48.41	50	**		0.090	0.087	3.18	
1,2-Diphenylhydrazine	1	0		8.94	48.71	50	**		0.839	0.818	2.58	
4-Bromophenyl-phenylether	1	0		9.27	49.83	50	20	0.1	0.203	0.202	0.35	
Hexachlorobenzene	1	0		9.34	48.20	50	20	0.1	0.210	0.203	3.60	
N-Octadecane	1	0		9.60	51.41	50	**	0.05	0.431	0.443	2.82	
Pentachlorophenol	1	0		9.54	51.73	50	20	0.05	0.121	0.117	3.47	
Phenanthrene	1	0		9.77	50.27	50	20	0.7	1.127	1.133	0.53	
Anthracene	1	0		9.83	50.80	50	20	0.7	1.139	1.158	1.60	
Carbazole	1	0		10.00	50.84	50	20	0.01	1.086	1.105	1.68	
Di-n-butylphthalate	1	0		10.37	53.50	50	20	0.01	1.184	1.267	7.00	
Fluoranthene	1	0		11.10	51.08	50	20	0.6	1.145	1.170	2.16	
Chrysene-d12	1	0	I	12.79	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.37	50.80	50	20	0.6	1.382	1.404	1.60	
Benzidine	1	0		11.25	51.70	50	**		0.710	0.734	3.41	
Terphenyl-d14	1	0	S	11.54	24.45	25	**		0.770	0.753	2.20	
4,4'-DDE	1	0		11.48	49.59		**		0.276			
4,4'-DDD	1	0		11.87	50.79		**		0.494			
Butylbenzylphthalate	1	0		12.13	51.86	50	20	0.01	0.596	0.618	3.71	
4,4'-DDT	1	0		12.23	51.27		**		0.409			
3,3'-Dichlorobenzidine	1	0		12.75	50.93	50	20	0.01	0.401	0.408	1.86	
Benzo[a]anthracene	1	0		12.78	50.53	50	20	0.8	1.240	1.254	1.07	
Chrysene	1	0		12.82	50.69	50	20	0.7	1.187	1.204	1.39	
bis(2-Ethylhexyl)phthalate	1	0		12.81	52.67	50	20	0.01	0.835	0.880	5.34	
Perylene-d12	1	0	I	14.41	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.56	51.24	50	20	0.01	1.426	1.461	2.47	
Benzo[b]fluoranthene	1	0		13.99	49.61	50	20	0.7	1.202	1.192	0.78	
Benzo[k]fluoranthene	1	0		14.02	48.80	50	20	0.7	1.218	1.189	2.40	
Benzo[a]pyrene	1	0		14.34	50.31	50	20	0.7	1.070	1.076	0.61	
Indeno[1,2,3-cd]pyrene	1	0		15.74	50.53	50	20	0.5	1.319	1.333	1.07	
Dibenzo[a,h]anthracene	1	0		15.75	50.03	50	20	0.4	1.099	1.100	0.05	
Benzo[g,h,i]perylene	1	0		16.12	50.03	50	20	0.5	1.084	1.085	0.06	

S-Surrogate Compound
N/O or N/Q - Not applicable for this run

I-Internal Standard Compound
C1-Compound %Diff exceeds limits

** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F.
624 limits are compared against the concentration found.

625 limits are compared against the %DIFF.
524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M97621.D **Instrument:** GCMS 10

Cont Calibration Date/Time 6/20/2023 9:04:00 A Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.671	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.962	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound
N/O or N/Q - Not applicable for this run

I-Internal Standard Compound
C1-Compound %Diff exceeds limits

** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F.
624 limits are compared against the concentration found.
625 limits are compared against the %DIFF.
524.2 limits are compared against the %DIFF

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 10M_0619.M
Data File: 10M97621.D Sam Mult : 1 Vial# : 2 Qt On : 06/20/23 09:23
Acq On : 06/20/23 09:04 Misc : A,BNA Qt Upd On: 06/19/23 13:14

Data Path : G:\GcMsData\2023\GCMS_10\Data\06-20-23\
Qt Path : G:\GCMSDATA\2023\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.674	96	69577	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.862	152	120688	40.00	ng	0.00
31) Naphthalene-d8	6.862	136	473273	40.00	ng	0.00
50) Acenaphthene-d10	8.290	164	262215	40.00	ng	0.00
77) Phenanthrene-d10	9.745	188	440271	40.00	ng	0.00
91) Chrysene-d12	12.794	240	388081	40.00	ng	0.00
103) Perylene-d12	14.409	264	366645	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.674	112	196354	49.94	ng	0.00
Spiked Amount 100.000			Recovery = 49.94%			
16) Phenol-d5	5.541	99	244749	50.92	ng	0.00
Spiked Amount 100.000			Recovery = 50.92%			
32) Nitrobenzene-d5	6.306	128	48031	25.19	ng	0.00
Spiked Amount 50.000			Recovery = 50.38%			
55) 2-Fluorobiphenyl	7.696	172	219886	24.63	ng	0.00
Spiked Amount 50.000			Recovery = 49.26%			
80) 2,4,6-Tribromophenol	9.028	330	47838	48.41	ng	0.00
Spiked Amount 100.000			Recovery = 48.41%			
94) Terphenyl-d14	11.542	244	182716	24.45	ng	0.00
Spiked Amount 50.000			Recovery = 48.90%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.717	88	89333	46.7004	ng	71
9) Pyridine	3.182	79	167260	49.9790	ng	74
10) N-Nitrosodimethylamine	3.123	74	133300	49.6866	ng	82
12) Benzaldehyde	5.487	77	166642	51.0698	ng	79
13) Aniline	5.584	93	302262	51.6943	ng	37
14) Pentachloroethane	5.626	117	77127	49.1592	ng	83
15) bis(2-Chloroethyl)ether	5.637	93	219060	51.1466	ng	81
17) Phenol	5.557	94	287153	50.9960	ng	82
18) 2-Chlorophenol	5.680	128	215756	50.8055	ng	81
19) N-Decane	5.723	57	244031	49.7778	ng	96
20) 1,3-Dichlorobenzene	5.814	146	231052	50.0977	ng	99
22) 1,4-Dichlorobenzene	5.872	146	235874	49.9443	ng	95
23) 1,2-Dichlorobenzene	6.001	146	221366	49.8017	ng	98
24) Benzyl alcohol	5.974	108	142748	50.5799	ng	69
25) bis(2-chloroisopropyl)...	6.081	45	299349	49.8062	ng	97
26) 2-Methylphenol	6.060	108	197332	50.8545	ng	97
27) Acetophenone	6.188	105	303641	52.9725	ng	66
28) Hexachloroethane	6.274	117	89044	49.3643	ng	86
29) N-Nitroso-di-n-propyla...	6.183	70	154221	54.1673	ng	75
30) 3&4-Methylphenol	6.183	108	211302	54.7878	ng	99
33) Nitrobenzene	6.322	77	217107	50.3114	ng	79
34) Isophorone	6.504	82	401311	50.5448	ng	86
35) 2-Nitrophenol	6.568	139	112639	50.9773	ng	87
36) 2,4-Dimethylphenol	6.595	107	204264	51.9309	ng	90
37) Benzoic Acid	6.659	105	110548m	45.3879	ng	
38) bis(2-Chloroethoxy)met...	6.664	93	248614	50.7332	ng	96
39) 2,4-Dichlorophenol	6.750	162	173096	53.8203	ng	87
40) 1,2,4-Trichlorobenzene	6.814	180	177690	49.8911	ng	99
41) Naphthalene	6.878	128	640233	50.5142	ng	99
42) 4-Chloroaniline	6.910	127	239088m	54.8036	ng	
43) Hexachlorobutadiene	6.964	225	93051	50.8783	ng	96
44) Caprolactam	7.188	113	71416	51.3665	ng	71
45) 4-Chloro-3-methylphenol	7.274	107	173869	50.7776	ng	78
46) 2-Methylnaphthalene	7.413	142	420432	51.4014	ng	99
47) 1-Methylnaphthalene	7.493	142	397568	51.1527	ng	96
48) Methylnaphthalenes (To...	7.413	142	817995m	103.0874	ng	
49) 1,1'-Biphenyl	7.782	154	517010	51.3064	ng	96
51) 1,2,4,5-Tetrachloroben...	7.541	216	182110	50.3162	ng	98
52) Hexachlorocyclopentadiene	7.531	237	79007	51.4909	ng	98
53) 2,4,6-Trichlorophenol	7.632	196	115099	50.1208	ng	99
54) 2,4,5-Trichlorophenol	7.664	196	124919	49.9502	ng	100
56) 2-Chloronaphthalene	7.809	162	379392	49.8293	ng	92
57) 1,4-Dimethylnaphthalene	8.087	156	330973	52.4785	ng	88
58) Dimethylnaphthalenes (...	8.087	156	330973	52.4785	ng	88
59) Diphenyl Ether	7.867	170	287148	50.7614	ng	78
60) 2-Nitroaniline	7.884	65	140137	52.0738	ng	58
61) Coumarin	8.071	146	161538	50.8321	ng	87
62) Acenaphthylene	8.167	152	549469	50.0989	ng	99
63) Dimethylphthalate	8.028	163	419761	50.4151	ng	94
64) 2,6-Dinitrotoluene	8.087	165	98936	53.8798	ng	63
65) Acenaphthene	8.317	153	382765	50.7088	ng	98

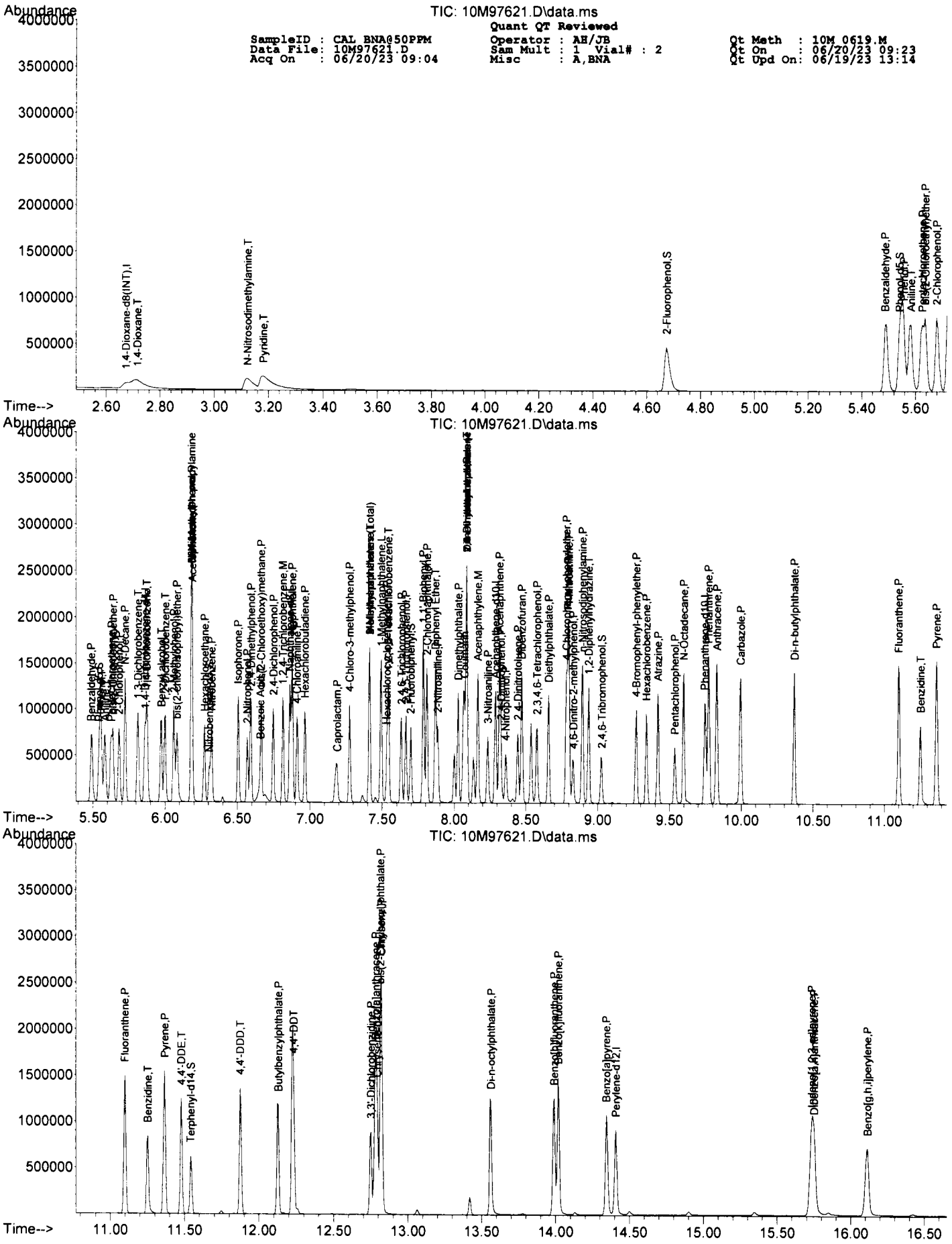
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 10M_0619.M
Data File: 10M97621.D Sam Mult : 1 Vial# : 2 Qt On : 06/20/23 09:23
Acq On : 06/20/23 09:04 Misc : A,BNA Qt Upd On: 06/19/23 13:14

Data Path : G:\GcMsData\2023\GCMS_10\Data\06-20-23\
Qt Path : G:\GCMSDATA\2023\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.237	138	111507	51.9356	ng	74
67)	2,4-Dinitrophenol	8.327	184	48504	49.7721	ng	51
68)	Dibenzofuran	8.472	168	540475	49.9125	ng	85
69)	2,4-Dinitrotoluene	8.445	165	127587	50.8380	ng	65
70)	4-Nitrophenol	8.360	65	84729	54.7225	ng	92
71)	2,3,4,6-Tetrachlorophenol	8.579	232	98156	50.8839	ng	87
72)	Fluorene	8.793	166	452095	51.3739	ng	98
73)	4-Chlorophenyl-phenyle...	8.782	204	201976	50.2938	ng	84
74)	Diethylphthalate	8.659	149	408898	49.7922	ng	96
75)	4-Nitroaniline	8.798	138	123288	52.6762	ng	72
76)	Atrazine	9.419	200	126033	52.0330	ng	97
78)	4,6-Dinitro-2-methylph...	8.830	198	66206	48.0847	ng	66
79)	n-Nitrosodiphenylamine	8.894	169	380678	50.3246	ng	97
81)	1,2-Diphenylhydrazine	8.937	77	449924	48.7089	ng	84
82)	4-Bromophenyl-phenylether	9.269	248	111384	49.8267	ng	85
83)	Hexachlorobenzene	9.338	284	111661	48.1977	ng	74
84)	N-Octadecane	9.600	57	243867	51.4110	ng	80
85)	Pentachlorophenol	9.536	266	64513	51.7348	ng	99
86)	Phenanthrene	9.772	178	623540	50.2660	ng	99
87)	Anthracene	9.830	178	637025	50.8010	ng	99
88)	Carbazole	9.996	167	607928	50.8397	ng	97
89)	Di-n-butylphthalate	10.371	149	697158	53.5015	ng	98
90)	Fluoranthene	11.098	202	643991	51.0815	ng	95
92)	Pyrene	11.366	202	681119	50.7977	ng	89
93)	Benzidine	11.253	184	356297	51.7044	ng	86
95)	4,4'-DDE	11.478	246	133006	49.5944	ng	94
96)	4,4'-DDD	11.874	235	243663	50.7949	ng	91
97)	Butylbenzylphthalate	12.130	149	299728	51.8556	ng	71
98)	4,4'-DDT	12.232	235	203241	51.2720	ng	94
99)	3,3'-Dichlorobenzidine	12.751	252	198148	50.9284	ng	96
100)	Benzo[a]anthracene	12.783	228	608172	50.5347	ng	99
101)	Chrysene	12.820	228	584029	50.6936	ng	100
102)	bis(2-Ethylhexyl)phtha...	12.815	149	426887	52.6690	ng	92
104)	Di-n-octylphthalate	13.564	149	669651	51.2371	ng	99
105)	Benzo[b]fluoranthene	13.992	252	546381	49.6077	ng	93
106)	Benzo[k]fluoranthene	14.018	252	544876	48.8024	ng	94
107)	Benzo[a]pyrene	14.345	252	493211	50.3063	ng	94
108)	Indeno[1,2,3-cd]pyrene	15.735	276	610824	50.5337	ng	88
109)	Dibenzo[a,h]anthracene	15.751	278	503930	50.0271	ng	92
110)	Benzo[g,h,i]perylene	16.115	276	497234	50.0289	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 10M97621.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@50PPM
Data File: 10M97621.D
Acq On : 06/20/23 09:04
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 10M_0619.M
Qt On : 06/20/23 09:23
Qt Upd On: 06/19/23 13:14
Abundance
Time-->

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M97639.D **Instrument:** GCMS 10

Cont Calibration Date/Time 6/20/2023 3:53:00 P Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.68	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.72	45.45	50	**		1.100	1.000	9.11	
Pyridine	1	0		3.19	49.82	50	**		1.924	1.917	0.35	
N-Nitrosodimethylamine	1	0		3.13	49.41	50	**		1.542	1.524	1.18	
2-Fluorophenol	1	0	S	4.68	50.04	50	**		2.260	2.262	0.08	
Benzaldehyde	1	0		5.49	51.27	50	20	0.01	1.876	1.923	2.53	
Aniline	1	0		5.58	50.88	50	**		3.362	3.421	1.77	
Pentachloroethane	1	0		5.63	49.77	50	**	0.05	0.902	0.898	0.46	
bis(2-Chloroethyl)ether	1	0		5.64	50.60	50	20	0.7	2.462	2.492	1.19	
Phenol-d5	1	0	S	5.55	50.48	50	**		2.763	2.790	0.96	
Phenol	1	0		5.56	50.91	50	20	0.8	3.237	3.296	1.82	
2-Chlorophenol	1	0		5.69	50.30	50	20	0.8	2.441	2.456	0.59	
N-Decane	1	0		5.72	50.38	50	**	0.05	2.818	2.840	0.75	
1,3-Dichlorobenzene	1	0		5.81	49.74	50	**		2.651	2.638	0.52	
1,4-Dichlorobenzene-d4	1	0	I	5.86	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.88	49.26	50	20		1.565	1.542	1.49	
1,2-Dichlorobenzene	1	0		6.00	49.29	50	**		1.473	1.452	1.42	
Benzyl alcohol	1	0		5.97	49.20	50	**		0.935	0.920	1.59	
bis(2-chloroisopropyl)ether	1	0		6.09	49.56	50	20	0.01	1.992	1.974	0.88	
2-Methylphenol	1	0		6.06	50.22	50	20	0.7	1.286	1.292	0.43	
Acetophenone	1	0		6.19	52.41	50	20	0.01	1.900	1.991	4.83	
Hexachloroethane	1	0		6.27	49.96	50	20	0.3	0.598	0.597	0.08	
N-Nitroso-di-n-propylamine	1	0		6.19	54.15	50	20	0.5	0.944	1.022	8.30	
3&4-Methylphenol	1	0		6.18	53.86	50	20		1.278	1.377	7.73	
Naphthalene-d8	1	0	I	6.86	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.31	24.66	25	**		0.161	0.159	1.36	
Nitrobenzene	1	0		6.32	50.08	50	20	0.2	0.365	0.365	0.16	
Isophorone	1	0		6.51	50.57	50	20	0.4	0.671	0.679	1.14	
2-Nitrophenol	1	0		6.57	50.05	50	20	0.1	0.187	0.187	0.10	
2,4-Dimethylphenol	1	0		6.59	52.45	50	20	0.2	0.332	0.349	4.89	
Benzoic Acid	1	0		6.66	44.61	50	**		0.209	0.183	10.78	
bis(2-Chloroethoxy)methane	1	0		6.67	50.46	50	20	0.3	0.414	0.418	0.92	
2,4-Dichlorophenol	1	0		6.75	52.75	50	20	0.2	0.272	0.287	5.49	
1,2,4-Trichlorobenzene	1	0		6.82	49.32	50	**		0.301	0.297	1.35	
Naphthalene	1	0		6.88	50.44	50	20	0.7	1.071	1.081	0.89	
4-Chloroaniline	1	0		6.92	55.05	50	20	0.01	0.369	0.406	10.10	
Hexachlorobutadiene	1	0		6.97	49.66	50	20	0.01	0.155	0.154	0.68	
Caprolactam	1	0		7.19	49.82	50	20	0.01	0.118	0.117	0.35	
4-Chloro-3-methylphenol	1	0		7.27	50.72	50	20	0.2	0.289	0.294	1.44	
2-Methylnaphthalene	1	0		7.41	50.92	50	**	0.4	0.691	0.704	1.84	
1-Methylnaphthalene	1	0		7.49	51.19	50	**	0.4	0.657	0.673	2.39	
Methylnaphthalenes	1	0		7.41	101.94	50	**			1.367	103.88	
1,1'-Biphenyl	1	0		7.79	50.92	50	20	0.01	0.852	0.867	1.84	
Acenaphthene-d10	1	0	I	8.29	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.55	49.84	50	20	0.01	0.552	0.550	0.32	
Hexachlorocyclopentadiene	1	0		7.54	50.78	50	20	0.05	0.234	0.238	1.55	
2,4,6-Trichlorophenol	1	0		7.63	49.61	50	20	0.2	0.350	0.348	0.78	
2,4,5-Trichlorophenol	1	0		7.66	49.00	50	20	0.2	0.382	0.374	2.00	
2-Fluorobiphenyl	1	0	S	7.70	24.12	25	**		1.362	1.314	3.51	
2-Chloronaphthalene	1	0		7.81	49.36	50	20	0.8	1.161	1.147	1.28	
1,4-Dimethylnaphthalene	1	0		8.09	51.34	50	**		0.962	0.988	2.68	
Dimethylnaphthalenes	1	0		8.09	51.34	50	20			0.988	2.68	

S-Surrogate Compound
N/O or N/Q - Not applicable for this run

I-Internal Standard Compound
C1-Compound %Diff exceeds limits

** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F.
624 limits are compared against the concentration found.
625 limits are compared against the %DIFF.
524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M97639.D **Instrument:** GCMS 10

Cont Calibration Date/Time 6/20/2023 3:53:00 P Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.87	49.35	50	**		0.863	0.852	1.30	
2-Nitroaniline	1	0		7.88	52.56	50	20	0.01	0.411	0.432	5.11	
Coumarin	1	0		8.07	50.71		**		0.485			
Acenaphthylene	1	0		8.17	48.97	50	20	0.9	1.673	1.639	2.06	
Dimethylphthalate	1	0		8.03	49.30	50	20	0.01	1.270	1.252	1.40	
2,6-Dinitrotoluene	1	0		8.09	52.64	50	20	0.2	0.280	0.295	5.29	
Acenaphthene	1	0		8.32	50.17	50	20	0.9	1.151	1.155	0.35	
3-Nitroaniline	1	0		8.24	50.64	50	20	0.01	0.328	0.332	1.28	
2,4-Dinitrophenol	1	0		8.33	47.05	50	20	0.2	0.150	0.139	5.91	
Dibenzofuran	1	0		8.47	48.99	50	20	0.8	1.652	1.618	2.02	
2,4-Dinitrotoluene	1	0		8.45	50.49	50	20	0.2	0.383	0.387	0.98	
4-Nitrophenol	1	0		8.36	52.75	50	20	0.01	0.236	0.249	5.49	
2,3,4,6-Tetrachlorophenol	1	0		8.58	49.55	50	20	0.01	0.294	0.292	0.89	
Fluorene	1	0		8.80	50.93	50	20	0.9	1.342	1.367	1.87	
4-Chlorophenyl-phenylether	1	0		8.78	49.30	50	20	0.4	0.613	0.604	1.40	
Diethylphthalate	1	0		8.66	49.32	50	20	0.01	1.253	1.236	1.36	
4-Nitroaniline	1	0		8.80	51.39	50	20	0.01	0.357	0.367	2.78	
Atrazine	1	0		9.42	50.16	50	20	0.01	0.369	0.371	0.32	
Phenanthrene-d10	1	0	I	9.75	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.83	46.66	50	20	0.01	0.125	0.117	6.69	
n-Nitrosodiphenylamine	1	0		8.89	50.12	50	20	0.01	0.687	0.689	0.23	
2,4,6-Tribromophenol	1	0	S	9.03	48.33	50	**		0.090	0.087	3.35	
1,2-Diphenylhydrazine	1	0		8.94	49.36	50	**		0.839	0.828	1.28	
4-Bromophenyl-phenylether	1	0		9.27	48.97	50	20	0.1	0.203	0.199	2.05	
Hexachlorobenzene	1	0		9.34	47.25	50	20	0.1	0.210	0.199	5.51	
N-Octadecane	1	0		9.60	52.01	50	**	0.05	0.431	0.448	4.01	
Pentachlorophenol	1	0		9.54	50.89	50	20	0.05	0.121	0.115	1.78	
Phenanthrene	1	0		9.78	50.16	50	20	0.7	1.127	1.131	0.32	
Anthracene	1	0		9.83	50.39	50	20	0.7	1.139	1.148	0.77	
Carbazole	1	0		10.00	50.70	50	20	0.01	1.086	1.102	1.40	
Di-n-butylphthalate	1	0		10.37	53.58	50	20	0.01	1.184	1.269	7.15	
Fluoranthene	1	0		11.10	51.06	50	20	0.6	1.145	1.170	2.12	
Chrysene-d12	1	0	I	12.79	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.37	50.74	50	20	0.6	1.382	1.402	1.48	
Benzidine	1	0		11.25	49.02	50	**		0.710	0.696	1.96	
Terphenyl-d14	1	0	S	11.55	24.27	25	**		0.770	0.748	2.91	
4,4'-DDE	1	0		11.48	50.13		**		0.276			
4,4'-DDD	1	0		11.88	50.27		**		0.494			
Butylbenzylphthalate	1	0		12.13	51.92	50	20	0.01	0.596	0.619	3.84	
4,4'-DDT	1	0		12.23	50.82		**		0.409			
3,3'-Dichlorobenzidine	1	0		12.75	50.09	50	20	0.01	0.401	0.402	0.19	
Benzo[a]anthracene	1	0		12.78	49.86	50	20	0.8	1.240	1.237	0.28	
Chrysene	1	0		12.83	51.31	50	20	0.7	1.187	1.219	2.62	
bis(2-Ethylhexyl)phthalate	1	0		12.82	52.70	50	20	0.01	0.835	0.881	5.40	
Perylene-d12	1	0	I	14.41	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.56	50.24	50	20	0.01	1.426	1.433	0.49	
Benzo[b]fluoranthene	1	0		13.99	51.77	50	20	0.7	1.202	1.244	3.55	
Benzo[k]fluoranthene	1	0		14.02	49.93	50	20	0.7	1.218	1.216	0.15	
Benzo[a]pyrene	1	0		14.35	50.88	50	20	0.7	1.070	1.088	1.76	
Indeno[1,2,3-cd]pyrene	1	0		15.74	49.97	50	20	0.5	1.319	1.318	0.07	
Dibenzo[a,h]anthracene	1	0		15.75	49.44	50	20	0.4	1.099	1.087	1.12	
Benzo[g,h,i]perylene	1	0		16.12	49.44	50	20	0.5	1.084	1.072	1.12	

S-Surrogate Compound
N/O or N/Q - Not applicable for this run

I-Internal Standard Compound
C1-Compound %Diff exceeds limits

** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F.
624 limits are compared against the concentration found.
625 limits are compared against the %DIFF.
524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M97639.D **Instrument:** GCMS 10

Cont Calibration Date/Time 6/20/2023 3:53:00 P Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.671	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.962	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	

S-Surrogate Compound
N/O or N/Q - Not applicable for this run

I-Internal Standard Compound
C1-Compound %Diff exceeds limits

** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F.
624 limits are compared against the concentration found.
625 limits are compared against the %DIFF.
524.2 limits are compared against the %DIFF

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 10M_0619.M
Data File: 10M97639.D Sam Mult : 1 Vial# : 2 Qt On : 06/20/23 16:12
Acq On : 06/20/23 15:53 Misc : A,BNA Qt Upd On: 06/19/23 13:14

Data Path : G:\GcMsData\2023\GCMS_10\Data\06-2023\
Qt Path : G:\GCMSDATA\2023\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.679	96	81016	40.00	ng	-0.01
21) 1,4-Dichlorobenzene-d4	5.862	152	142334	40.00	ng	0.00
31) Naphthalene-d8	6.862	136	555799	40.00	ng	0.00
50) Acenaphthene-d10	8.290	164	311346	40.00	ng	0.00
77) Phenanthrene-d10	9.750	188	514552	40.00	ng	0.00
91) Chrysene-d12	12.794	240	448305	40.00	ng	0.00
103) Perylene-d12	14.409	264	426568	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.680	112	229061	50.04	ng	0.00
Spiked Amount 100.000			Recovery = 50.04%			
16) Phenol-d5	5.546	99	282506	50.48	ng	0.00
Spiked Amount 100.000			Recovery = 50.48%			
32) Nitrobenzene-d5	6.311	128	55226	24.66	ng	0.00
Spiked Amount 50.000			Recovery = 49.32%			
55) 2-Fluorobiphenyl	7.702	172	255674	24.12	ng	0.00
Spiked Amount 50.000			Recovery = 48.24%			
80) 2,4,6-Tribromophenol	9.028	330	55814	48.33	ng	0.00
Spiked Amount 100.000			Recovery = 48.33%			
94) Terphenyl-d14	11.547	244	209543	24.27	ng	0.00
Spiked Amount 50.000			Recovery = 48.54%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.722	88	101226	45.4460	ng	66
9) Pyridine	3.187	79	194156	49.8243	ng	75
10) N-Nitrosodimethylamine	3.129	74	154352	49.4102	ng	84
12) Benzaldehyde	5.493	77	194790	51.2674	ng	77
13) Aniline	5.584	93	346433	50.8831	ng	33
14) Pentachloroethane	5.626	117	90927	49.7722	ng	84
15) bis(2-Chloroethyl)ether	5.642	93	252328	50.5957	ng	80
17) Phenol	5.557	94	333785	50.9078	ng	86
18) 2-Chlorophenol	5.685	128	248713	50.2969	ng	80
19) N-Decane	5.723	57	287568	50.3763	ng	95
20) 1,3-Dichlorobenzene	5.814	146	267116	49.7396	ng	98
22) 1,4-Dichlorobenzene	5.878	146	274353	49.2574	ng	98
23) 1,2-Dichlorobenzene	6.001	146	258379	49.2885	ng	99
24) Benzyl alcohol	5.974	108	163770	49.2037	ng	72
25) bis(2-chloroisopropyl)...	6.086	45	351281	49.5582	ng	94
26) 2-Methylphenol	6.060	108	229807	50.2170	ng	96
27) Acetophenone	6.188	105	354316	52.4127	ng	71
28) Hexachloroethane	6.274	117	106286	49.9620	ng	83
29) N-Nitroso-di-n-propyla...	6.188	70	181821	54.1493	ng	73
30) 3&4-Methylphenol	6.183	108	244996	53.8635	ng	99
33) Nitrobenzene	6.322	77	253789	50.0794	ng	83
34) Isophorone	6.509	82	471542	50.5719	ng	83
35) 2-Nitrophenol	6.568	139	129871	50.0488	ng	90
36) 2,4-Dimethylphenol	6.595	107	242267	52.4472	ng	92
37) Benzoic Acid	6.664	105	126888	44.6104	ng	87
38) bis(2-Chloroethoxy)met...	6.669	93	290400	50.4611	ng	95
39) 2,4-Dichlorophenol	6.750	162	199224	52.7467	ng	88
40) 1,2,4-Trichlorobenzene	6.819	180	206301	49.3236	ng	98
41) Naphthalene	6.878	128	750830	50.4442	ng	99
42) 4-Chloroaniline	6.915	127	282048m	55.0514	ng	
43) Hexachlorobutadiene	6.969	225	106665	49.6623	ng	97
44) Caprolactam	7.194	113	81352	49.8249	ng	71
45) 4-Chloro-3-methylphenol	7.274	107	203960	50.7211	ng	82
46) 2-Methylnaphthalene	7.413	142	489102	50.9181	ng	98
47) 1-Methylnaphthalene	7.493	142	467257	51.1926	ng	95
48) Methylnaphthalenes (To...	7.413	142	949924m	101.9384	ng	
49) 1,1'-Biphenyl	7.787	154	602602	50.9210	ng	94
51) 1,2,4,5-Tetrachloroben...	7.547	216	214191	49.8413	ng	97
52) Hexachlorocyclopentadiene	7.536	237	92507	50.7754	ng	99
53) 2,4,6-Trichlorophenol	7.632	196	135279m	49.6125	ng	
54) 2,4,5-Trichlorophenol	7.664	196	145498m	48.9982	ng	
56) 2-Chloronaphthalene	7.809	162	446221	49.3584	ng	92
57) 1,4-Dimethylnaphthalene	8.092	156	384471	51.3413	ng	89
58) Dimethylnaphthalenes (...	8.092	156	384471	51.3413	ng	89
59) Diphenyl Ether	7.867	170	331473	49.3503	ng	81
60) 2-Nitroaniline	7.884	65	167938	52.5569	ng	66
61) Coumarin	8.071	146	191339	50.7085	ng	76
62) Acenaphthylene	8.167	152	637752	48.9724	ng	100
63) Dimethylphthalate	8.028	163	487407	49.3020	ng	94
64) 2,6-Dinitrotoluene	8.087	165	114779	52.6439	ng	69
65) Acenaphthene	8.322	153	449690	50.1740	ng	98

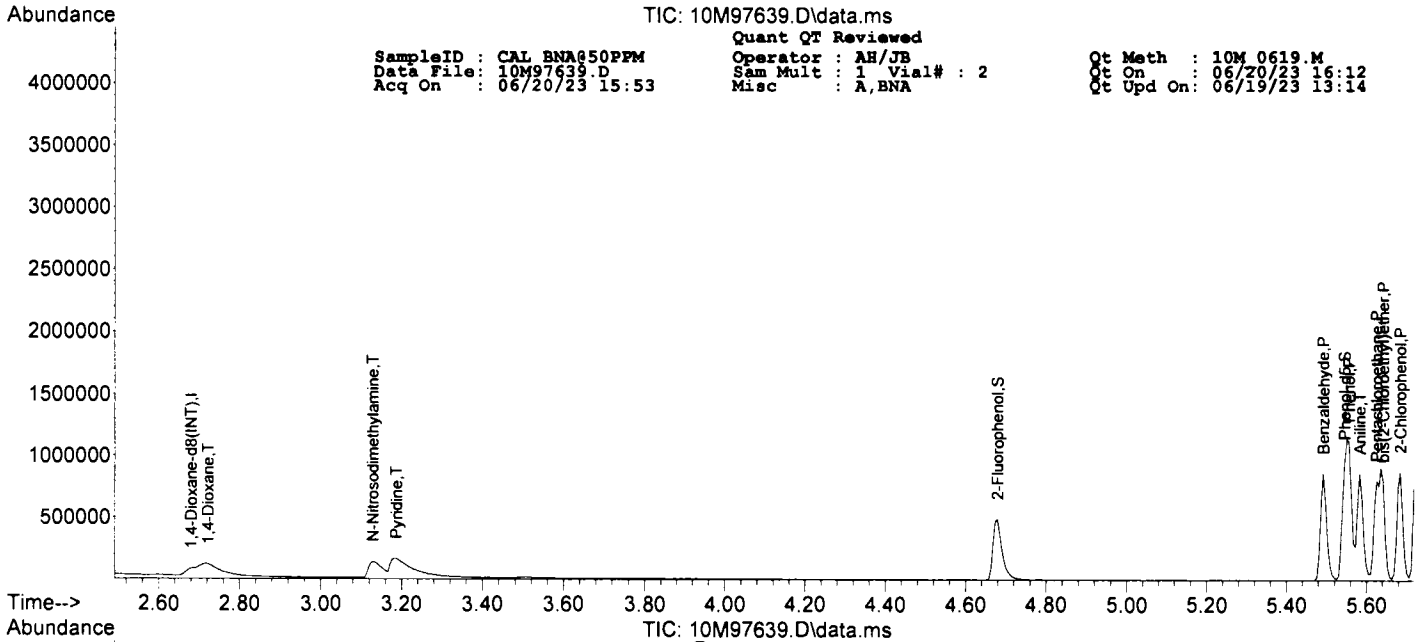
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 10M_0619.M
Data File: 10M97639.D Sam Mult : 1 Vial# : 2 Qt On : 06/20/23 16:12
Acq On : 06/20/23 15:53 Misc : A,BNA Qt Upd On: 06/19/23 13:14

Data Path : G:\GcMsData\2023\GCMS_10\Data\06-2023\
Qt Path : G:\GCMSDATA\2023\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.237	138	129094	50.6388	ng	80
67)	2,4-Dinitrophenol	8.333	184	54093	47.0460	ng	43
68)	Dibenzofuran	8.472	168	629852	48.9876	ng	88
69)	2,4-Dinitrotoluene	8.445	165	150459	50.4911	ng	70
70)	4-Nitrophenol	8.365	65	96971	52.7461	ng	86
71)	2,3,4,6-Tetrachlorophenol	8.579	232	113500	49.5535	ng	89
72)	Fluorene	8.798	166	532201	50.9334	ng	99
73)	4-Chlorophenyl-phenyle...	8.782	204	235077	49.2991	ng	86
74)	Diethylphthalate	8.659	149	480893	49.3184	ng	97
75)	4-Nitroaniline	8.803	138	142810	51.3886	ng	74
76)	Atrazine	9.424	200	144262	50.1603	ng	96
78)	4,6-Dinitro-2-methylph...	8.830	198	75078	46.6566	ng	59
79)	n-Nitrosodiphenylamine	8.894	169	443072	50.1173	ng	98
81)	1,2-Diphenylhydrazine	8.937	77	532866	49.3603	ng	87
82)	4-Bromophenyl-phenylether	9.269	248	127949	48.9742	ng	89
83)	Hexachlorobenzene	9.344	284	127924	47.2462	ng	70
84)	N-Octadecane	9.600	57	288310	52.0061	ng	80
85)	Pentachlorophenol	9.536	266	73988	50.8883	ng	97
86)	Phenanthrene	9.777	178	727185	50.1586	ng	99
87)	Anthracene	9.830	178	738406	50.3851	ng	99
88)	Carbazole	9.996	167	708534	50.6994	ng	97
89)	Di-n-butylphthalate	10.371	149	815903	53.5753	ng	98
90)	Fluoranthene	11.103	202	752322	51.0597	ng	92
92)	Pyrene	11.366	202	785925	50.7400	ng	91
93)	Benzidine	11.253	184	390230	49.0213	ng	87
95)	4,4'-DDE	11.478	246	155294	50.1262	ng	95
96)	4,4'-DDD	11.879	235	278594	50.2749	ng	91
97)	Butylbenzylphthalate	12.130	149	346666	51.9192	ng	76
98)	4,4'-DDT	12.232	235	232701	50.8178	ng	94
99)	3,3'-Dichlorobenzidine	12.751	252	225147	50.0940	ng	98
100)	Benzo[a]anthracene	12.783	228	693181	49.8607	ng	98
101)	Chrysene	12.826	228	682865	51.3101	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.820	149	493442	52.7020	ng	90
104)	Di-n-octylphthalate	13.564	149	763990	50.2437	ng	100
105)	Benzo[b]fluoranthene	13.992	252	663430m	51.7733	ng	
106)	Benzo[k]fluoranthene	14.018	252	648519	49.9256	ng	95
107)	Benzo[a]pyrene	14.350	252	580336	50.8777	ng	92
108)	Indeno[1,2,3-cd]pyrene	15.735	276	702667	49.9657	ng	88
109)	Dibenzo[a,h]anthracene	15.751	278	579421	49.4410	ng	93
110)	Benzo[g,h,i]perylene	16.115	276	571684	49.4395	ng	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
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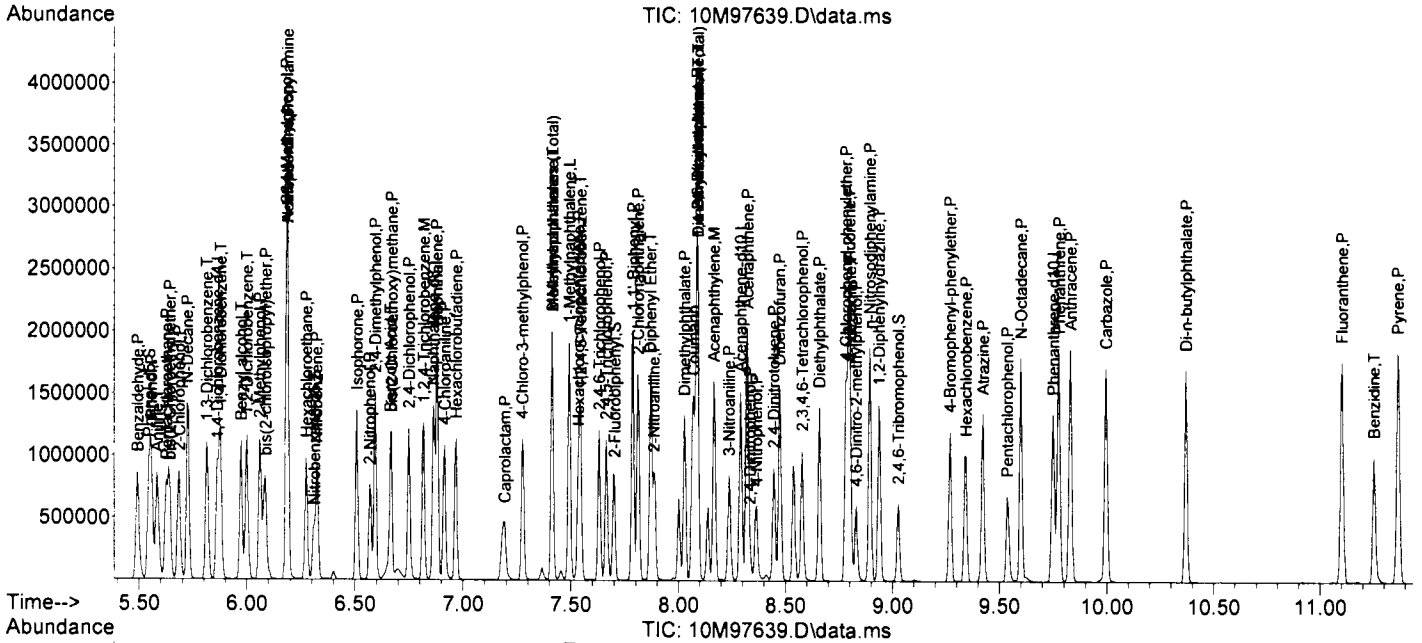
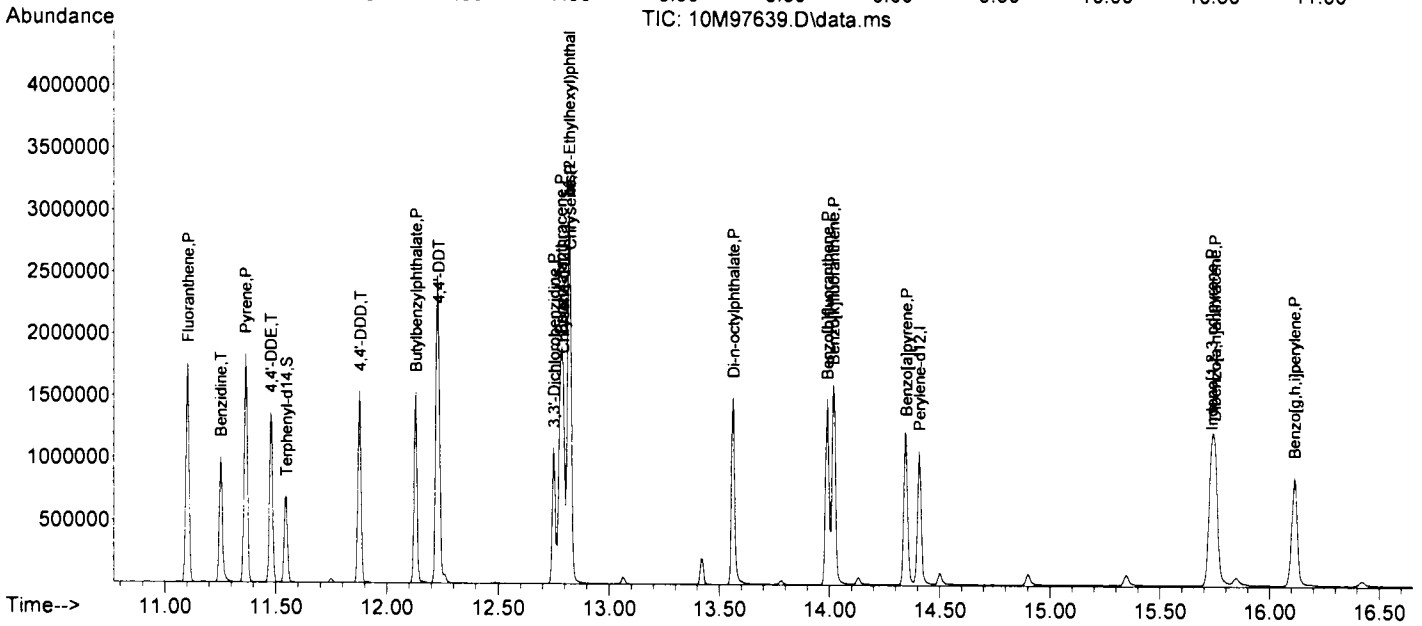
Quant QT Reviewed
SampleID : CAL BNA@50PPM
Data File: 10M97639.D
Acq On : 06/20/23 15:53
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 10M_0619.M
Qt On : 06/20/23 16:12
Qt Upd On: 06/19/23 13:14
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Phenol-d6
Aniline,T
2-Chlorophenol,P
Time-->


Abundance
TIC: 10M97639.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Fluorobiphenyl,S
2-Nitroaniline,P
Dimethylphthalate,P
Diphenyl Ether,T
Acenaphthylene,M
3-Nitroaniline,P
2,4-Dinitrotoluene,P
Dibenzofuran,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4,6-Dinitro-2-methylphenol,P
1,2-Diphenylhydrazine,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 10M97639.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 5M124272.D **Instrument:** GCMS 5

Cont Calibration Date/Time 6/23/2023 9:06:00 A Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.35	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.39	50.22	50	**		1.060	1.065	0.44	
Pyridine	1	0		2.81	48.76	50	**		2.130	2.078	2.48	
N-Nitrosodimethylamine	1	0		2.76	50.10	50	**		1.613	1.617	0.21	
2-Fluorophenol	1	0	S	4.43	51.26	50	**		1.761	1.805	2.53	
Benzaldehyde	1	0		5.27	47.83	50	20	0.01	1.543	1.476	4.33	
Aniline	1	0		5.36	53.87	50	**		2.485	2.678	7.74	
Pentachloroethane	1	0		5.40	49.96	50	**	0.05	0.689	0.688	0.09	
bis(2-Chloroethyl)ether	1	0		5.42	48.80	50	20	0.7	1.941	1.894	2.40	
Phenol-d5	1	0	S	5.34	51.22	50	**		2.155	2.207	2.44	
Phenol	1	0		5.35	50.83	50	20	0.8	2.606	2.649	1.65	
2-Chlorophenol	1	0		5.46	50.32	50	20	0.8	1.891	1.903	0.64	
N-Decane	1	0		5.50	50.21	50	**	0.05	1.987	1.995	0.42	
1,3-Dichlorobenzene	1	0		5.59	49.28	50	**		2.174	2.143	1.43	
1,4-Dichlorobenzene-d4	1	0	I	5.64	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.66	49.38	50	20		1.572	1.553	1.24	
1,2-Dichlorobenzene	1	0		5.78	48.53	50	**		1.478	1.435	2.94	
Benzyl alcohol	1	0		5.76	49.69	50	**		0.871	0.865	0.63	
bis(2-chloroisopropyl)ether	1	0		5.87	50.21	50	20	0.01	1.616	1.623	0.43	
2-Methylphenol	1	0		5.85	50.57	50	20	0.7	1.200	1.214	1.15	
Acetophenone	1	0		5.98	54.84	50	20	0.01	1.758	1.928	9.67	
Hexachloroethane	1	0		6.06	49.06	50	20	0.3	0.559	0.548	1.89	
N-Nitroso-di-n-propylamine	1	0		5.98	51.40	50	20	0.5	0.911	0.936	2.79	
3&4-Methylphenol	1	0		5.98	52.35	50	20		1.260	1.319	4.70	
Naphthalene-d8	1	0	I	6.66	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.10	24.54	25	**		0.167	0.164	1.83	
Nitrobenzene	1	0		6.12	49.05	50	20	0.2	0.380	0.373	1.89	
Isophorone	1	0		6.30	49.38	50	20	0.4	0.683	0.675	1.24	
2-Nitrophenol	1	0		6.36	49.99	50	20	0.1	0.191	0.191	0.01	
2,4-Dimethylphenol	1	0		6.39	49.24	50	20	0.2	0.354	0.348	1.52	
Benzoic Acid	1	0		6.47	47.72	50	**		0.226	0.212	4.56	
bis(2-Chloroethoxy)methane	1	0		6.46	48.17	50	20	0.3	0.431	0.415	3.66	
2,4-Dichlorophenol	1	0		6.54	50.08	50	20	0.2	0.311	0.311	0.16	
1,2,4-Trichlorobenzene	1	0		6.61	48.12	50	**		0.363	0.349	3.76	
Naphthalene	1	0		6.67	46.69	50	20	0.7	1.151	1.075	6.63	
4-Chloroaniline	1	0		6.71	55.92	50	20	0.01	0.365	0.408	11.84	
Hexachlorobutadiene	1	0		6.76	47.63	50	20	0.01	0.208	0.198	4.74	
Caprolactam	1	0		6.98	55.92	50	20	0.01	0.097	0.109	11.84	
4-Chloro-3-methylphenol	1	0		7.07	49.88	50	20	0.2	0.286	0.285	0.24	
2-Methylnaphthalene	1	0		7.19	49.87	50	**	0.4	0.726	0.724	0.26	
1-Methylnaphthalene	1	0		7.28	47.65	50	**	0.4	0.678	0.646	4.70	
Methylnaphthalenes	1	0		7.19	97.99	50	**			1.374	95.99	
1,1'-Biphenyl	1	0		7.56	49.83	50	20	0.01	0.908	0.905	0.33	
Acenaphthene-d10	1	0	I	8.06	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.32	52.70	50	20	0.01	0.655	0.690	5.41	
Hexachlorocyclopentadiene	1	0		7.31	53.15	50	20	0.05	0.255	0.265	6.29	
2,4,6-Trichlorophenol	1	0		7.41	50.65	50	20	0.2	0.394	0.399	1.30	
2,4,5-Trichlorophenol	1	0		7.45	50.67	50	20	0.2	0.422	0.428	1.34	
2-Fluorobiphenyl	1	0	S	7.48	25.07	25	**		1.431	1.435	0.26	
2-Chloronaphthalene	1	0		7.58	48.76	50	20	0.8	1.225	1.194	2.49	
1,4-Dimethylnaphthalene	1	0		7.86	52.10	50	**		1.023	1.066	4.20	
Dimethylnaphthalenes	1	0		7.86	52.10	50	20			1.066	4.20	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 5M124272.D **Instrument:** GCMS 5

Cont Calibration Date/Time 6/23/2023 9:06:00 A Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.65	52.41	50	**		0.849	0.890	4.83	
2-Nitroaniline	1	0		7.67	52.49	50	20	0.01	0.367	0.385	4.98	
Coumarin	1	0		7.85	51.44		**		0.495			
Acenaphthylene	1	0		7.94	48.93	50	20	0.9	1.713	1.676	2.13	
Dimethylphthalate	1	0		7.81	49.66	50	20	0.01	1.309	1.301	0.67	
2,6-Dinitrotoluene	1	0		7.87	52.69	50	20	0.2	0.293	0.309	5.39	
Acenaphthene	1	0		8.09	49.06	50	20	0.9	1.211	1.188	1.89	
3-Nitroaniline	1	0		8.02	56.17	50	20	0.01	0.291	0.327	12.34	
2,4-Dinitrophenol	1	0		8.11	53.94	50	20	0.2	0.136	0.141	7.88	
Dibenzofuran	1	0		8.24	47.77	50	20	0.8	1.780	1.701	4.47	
2,4-Dinitrotoluene	1	0		8.22	51.08	50	20	0.2	0.370	0.378	2.16	
4-Nitrophenol	1	0		8.15	52.20	50	20	0.01	0.203	0.212	4.39	
2,3,4,6-Tetrachlorophenol	1	0		8.34	52.68	50	20	0.01	0.343	0.361	5.35	
Fluorene	1	0		8.56	51.06	50	20	0.9	1.409	1.439	2.12	
4-Chlorophenyl-phenylether	1	0		8.55	49.68	50	20	0.4	0.701	0.697	0.63	
Diethylphthalate	1	0		8.43	50.93	50	20	0.01	1.248	1.271	1.86	
4-Nitroaniline	1	0		8.57	53.85	50	20	0.01	0.321	0.346	7.70	
Atrazine	1	0		9.19	55.84	50	20	0.01	0.354	0.395	11.68	
Phenanthrene-d10	1	0	I	9.50	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.60	52.79	50	20	0.01	0.109	0.112	5.59	
n-Nitrosodiphenylamine	1	0		8.66	49.46	50	20	0.01	0.626	0.620	1.08	
2,4,6-Tribromophenol	1	0	S	8.79	49.84	50	**		0.099	0.099	0.31	
1,2-Diphenylhydrazine	1	0		8.70	45.88	50	**		0.760	0.697	8.25	
4-Bromophenyl-phenylether	1	0		9.03	49.13	50	20	0.1	0.217	0.214	1.74	
Hexachlorobenzene	1	0		9.09	48.13	50	20	0.1	0.237	0.228	3.74	
N-Octadecane	1	0		9.36	51.82	50	**	0.05	0.327	0.339	3.64	
Pentachlorophenol	1	0		9.29	52.70	50	20	0.05	0.128	0.130	5.40	
Phenanthrene	1	0		9.52	48.14	50	20	0.7	1.102	1.061	3.72	
Anthracene	1	0		9.58	48.99	50	20	0.7	1.099	1.077	2.02	
Carbazole	1	0		9.75	50.02	50	20	0.01	1.014	1.014	0.04	
Di-n-butylphthalate	1	0		10.13	52.76	50	20	0.01	1.113	1.174	5.52	
Fluoranthene	1	0		10.85	51.28	50	20	0.6	1.199	1.230	2.57	
Chrysene-d12	1	0	I	12.54	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.11	49.92	50	20	0.6	1.353	1.351	0.16	
Benzidine	1	0		11.01	57.21	50	**		0.505	0.578	14.42	
Terphenyl-d14	1	0	S	11.30	24.72	25	**		0.750	0.742	1.11	
4,4'-DDE	1	0		11.23	49.39		**		0.279			
4,4'-DDD	1	0		11.63	52.74		**		0.489			
Butylbenzylphthalate	1	0		11.89	51.50	50	20	0.01	0.512	0.527	3.01	
4,4'-DDT	1	0		11.99	53.88		**		0.392			
3,3'-Dichlorobenzidine	1	0		12.51	57.16	50	20	0.01	0.368	0.421	14.31	
Benzo[a]anthracene	1	0		12.53	49.74	50	20	0.8	1.283	1.276	0.51	
Chrysene	1	0		12.57	48.54	50	20	0.7	1.206	1.170	2.93	
bis(2-Ethylhexyl)phthalate	1	0		12.59	51.81	50	20	0.01	0.724	0.750	3.61	
Perylene-d12	1	0	I	14.14	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.33	53.79	50	20	0.01	1.218	1.294	7.57	
Benzo[b]fluoranthene	1	0		13.74	49.92	50	20	0.7	1.219	1.217	0.16	
Benzo[k]fluoranthene	1	0		13.77	52.81	50	20	0.7	1.211	1.279	5.62	
Benzo[a]pyrene	1	0		14.09	51.86	50	20	0.7	1.070	1.109	3.72	
Indeno[1,2,3-cd]pyrene	1	0		15.38	49.82	50	20	0.5	1.335	1.330	0.37	
Dibenzo[a,h]anthracene	1	0		15.40	50.16	50	20	0.4	1.097	1.100	0.31	
Benzo[g,h,i]perylene	1	0		15.73	50.35	50	20	0.5	1.077	1.085	0.71	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 5M124272.D **Instrument:** GCMS 5

Cont Calibration Date/Time 6/23/2023 9:06:00 A Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.701	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		1.023	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124272.D Sam Mult : 1 Vial# : 2 Qt On : 06/23/23 09:23
Acq On : 06/23/23 09:06 Misc : A,BNA Qt Upd On: 06/21/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-23-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.355	96	64535	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.640	152	90180	40.00	ng	0.00
31) Naphthalene-d8	6.655	136	321716	40.00	ng	0.00
50) Acenaphthene-d10	8.060	164	173874	40.00	ng	0.00
77) Phenanthrene-d10	9.503	188	320185	40.00	ng	0.00
91) Chrysene-d12	12.543	240	303317	40.00	ng	0.00
103) Perylene-d12	14.140	264	289493	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.433	112	145628	51.26	ng	0.00
Spiked Amount 100.000			Recovery = 51.26%			
16) Phenol-d5	5.336	99	178050	51.22	ng	0.00
Spiked Amount 100.000			Recovery = 51.22%			
32) Nitrobenzene-d5	6.100	128	33015	24.54	ng	0.00
Spiked Amount 50.000			Recovery = 49.08%			
55) 2-Fluorobiphenyl	7.478	172	155946	25.07	ng	0.00
Spiked Amount 50.000			Recovery = 50.14%			
80) 2,4,6-Tribromophenol	8.787	330	39522	49.84	ng	0.00
Spiked Amount 100.000			Recovery = 49.84%			
94) Terphenyl-d14	11.298	244	140591	24.72	ng	0.00
Spiked Amount 50.000			Recovery = 49.44%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.387	88	85891m	50.2224	ng	
9) Pyridine	2.814	79	167597	48.7587	ng	67
10) N-Nitrosodimethylamine	2.761	74	130406	50.1044	ng	74
12) Benzaldehyde	5.266	77	119102	47.8339	ng	77
13) Aniline	5.363	93	216017	53.8694	ng	58
14) Pentachloroethane	5.400	117	55509	49.9569	ng	71
15) bis(2-Chloroethyl)ether	5.421	93	152816	48.7994	ng	82
17) Phenol	5.347	94	213724	50.8274	ng	81
18) 2-Chlorophenol	5.464	128	153498	50.3221	ng	78
19) N-Decane	5.502	57	160927	50.2103	ng	98
20) 1,3-Dichlorobenzene	5.592	146	172843	49.2832	ng	98
22) 1,4-Dichlorobenzene	5.656	146	175025	49.3814	ng	97
23) 1,2-Dichlorobenzene	5.779	146	161736	48.5293	ng	98
24) Benzyl alcohol	5.763	108	97554	49.6871	ng	70
25) bis(2-chloroisopropyl)...	5.870	45	182899	50.2125	ng	100
26) 2-Methylphenol	5.854	108	136869	50.5729	ng	98
27) Acetophenone	5.977	105	217364	54.8353	ng	69
28) Hexachloroethane	6.057	117	61823	49.0561	ng	90
29) N-Nitroso-di-n-propyla...	5.977	70	105544	51.3953	ng	72
30) 3&4-Methylphenol	5.982	108	148672	52.3485	ng	99
33) Nitrobenzene	6.116	77	149975	49.0549	ng	76
34) Isophorone	6.297	82	271359	49.3805	ng	91
35) 2-Nitrophenol	6.362	139	76729	49.9928	ng	84
36) 2,4-Dimethylphenol	6.394	107	140014	49.2424	ng	89
37) Benzoic Acid	6.468	105	85095	47.7213	ng	87
38) bis(2-Chloroethoxy)met...	6.463	93	166871	48.1677	ng	95
39) 2,4-Dichlorophenol	6.543	162	125108	50.0779	ng	87
40) 1,2,4-Trichlorobenzene	6.607	180	140469	48.1224	ng	97
41) Naphthalene	6.671	128	432176	46.6861	ng	99
42) 4-Chloroaniline	6.709	127	164234	55.9188	ng	94
43) Hexachlorobutadiene	6.757	225	79502	47.6301	ng	97
44) Caprolactam	6.981	113	43811	55.9183	ng	71
45) 4-Chloro-3-methylphenol	7.072	107	114575	49.8788	ng	77
46) 2-Methylnaphthalene	7.195	142	291185	49.8678	ng	99
47) 1-Methylnaphthalene	7.275	142	259795	47.6486	ng	92
48) Methylnaphthalenes (To...	7.195	142	552544m	97.9935	ng	
49) 1,1'-Biphenyl	7.564	154	363821	49.8341	ng	94
51) 1,2,4,5-Tetrachloroben...	7.323	216	150005	52.7044	ng	98
52) Hexachlorocyclopentadiene	7.313	237	57581	53.1451	ng	99
53) 2,4,6-Trichlorophenol	7.414	196	86713m	50.6507	ng	
54) 2,4,5-Trichlorophenol	7.446	196	93025m	50.6709	ng	
56) 2-Chloronaphthalene	7.585	162	259594	48.7568	ng	91
57) 1,4-Dimethylnaphthalene	7.863	156	231685	52.1000	ng	86
58) Dimethylnaphthalenes (...	7.863	156	231685	52.1000	ng	86
59) Diphenyl Ether	7.649	170	193445	52.4146	ng	74
60) 2-Nitroaniline	7.665	65	83740	52.4915	ng	59
61) Coumarin	7.852	146	110754	51.4401	ng	97
62) Acenaphthylene	7.938	152	364363	48.9344	ng	99
63) Dimethylphthalate	7.809	163	282676	49.6638	ng	99
64) 2,6-Dinitrotoluene	7.868	165	67167	52.6943	ng	59
65) Acenaphthene	8.087	153	258159	49.0556	ng	96

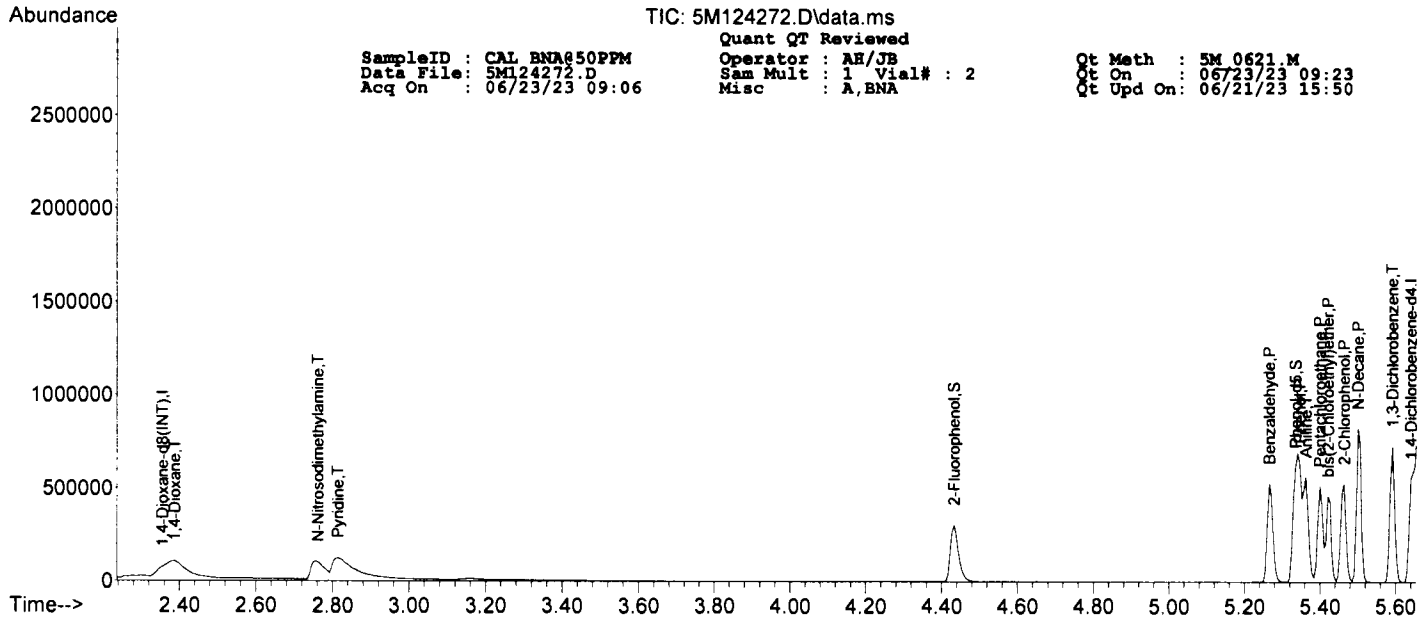
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124272.D Sam Mult : 1 Vial# : 2 Qt On : 06/23/23 09:23
Acq On : 06/23/23 09:06 Misc : A,BNA Qt Upd On: 06/21/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-23-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.018	138	71068	56.1676	ng	71
67)	2,4-Dinitrophenol	8.109	184	30703	53.9382	ng	30
68)	Dibenzofuran	8.242	168	369635	47.7661	ng	81
69)	2,4-Dinitrotoluene	8.221	165	82097	51.0800	ng	61
70)	4-Nitrophenol	8.151	65	46081	52.1956	ng	87
71)	2,3,4,6-Tetrachlorophenol	8.344	232	78516	52.6761	ng	82
72)	Fluorene	8.557	166	312782	51.0606	ng	97
73)	4-Chlorophenyl-phenyle...	8.547	204	151407	49.6847	ng	81
74)	Diethylphthalate	8.434	149	276276	50.9303	ng	96
75)	4-Nitroaniline	8.573	138	75224	53.8481	ng	75
76)	Atrazine	9.193	200	85887	55.8421	ng	92
78)	4,6-Dinitro-2-methylph...	8.600	198	44714	52.7928	ng	78
79)	n-Nitrosodiphenylamine	8.664	169	248023	49.4616	ng	99
81)	1,2-Diphenylhydrazine	8.701	77	278978	45.8766	ng	85
82)	4-Bromophenyl-phenylether	9.033	248	85523	49.1277	ng	77
83)	Hexachlorobenzene	9.091	284	91265	48.1276	ng	64
84)	N-Octadecane	9.364	57	135491	51.8214	ng	75
85)	Pentachlorophenol	9.294	266	52135	52.7010	ng	97
86)	Phenanthrene	9.524	178	424497	48.1418	ng	100
87)	Anthracene	9.583	178	430919	48.9888	ng	99
88)	Carbazole	9.754	167	405993	50.0178	ng	97
89)	Di-n-butylphthalate	10.133	149	470035	52.7612	ng	97
90)	Fluoranthene	10.849	202	492111	51.2841	ng	89
92)	Pyrene	11.111	202	512067	49.9221	ng	88
93)	Benzidine	11.009	184	219009	57.2075	ng	89
95)	4,4'-DDE	11.234	246	104324	49.3907	ng	96
96)	4,4'-DDD	11.634	235	195575	52.7439	ng	97
97)	Butylbenzylphthalate	11.891	149	199904	51.5040	ng	72
98)	4,4'-DDT	11.987	235	160306	53.8793	ng	99
99)	3,3'-Dichlorobenzidine	12.511	252	159436	57.1558	ng	96
100)	Benzo[a]anthracene	12.532	228	483849m	49.7445	ng	
101)	Chrysene	12.575	228	443727	48.5367	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.585	149	284381	51.8075	ng	94
104)	Di-n-octylphthalate	13.333	149	468186	53.7875	ng	99
105)	Benzo[b]fluoranthene	13.745	252	440431	49.9183	ng	95
106)	Benzo[k]fluoranthene	13.771	252	462975	52.8119	ng	94
107)	Benzo[a]pyrene	14.086	252	401485	51.8622	ng	91
108)	Indeno[1,2,3-cd]pyrene	15.379	276	481213	49.8153	ng	81
109)	Dibenzo[a,h]anthracene	15.401	278	398200	50.1555	ng	95
110)	Benzo[g,h,i]perylene	15.727	276	392521	50.3530	ng	76

(#) = qualifier out of range (m) = manual integration (+) = signals summed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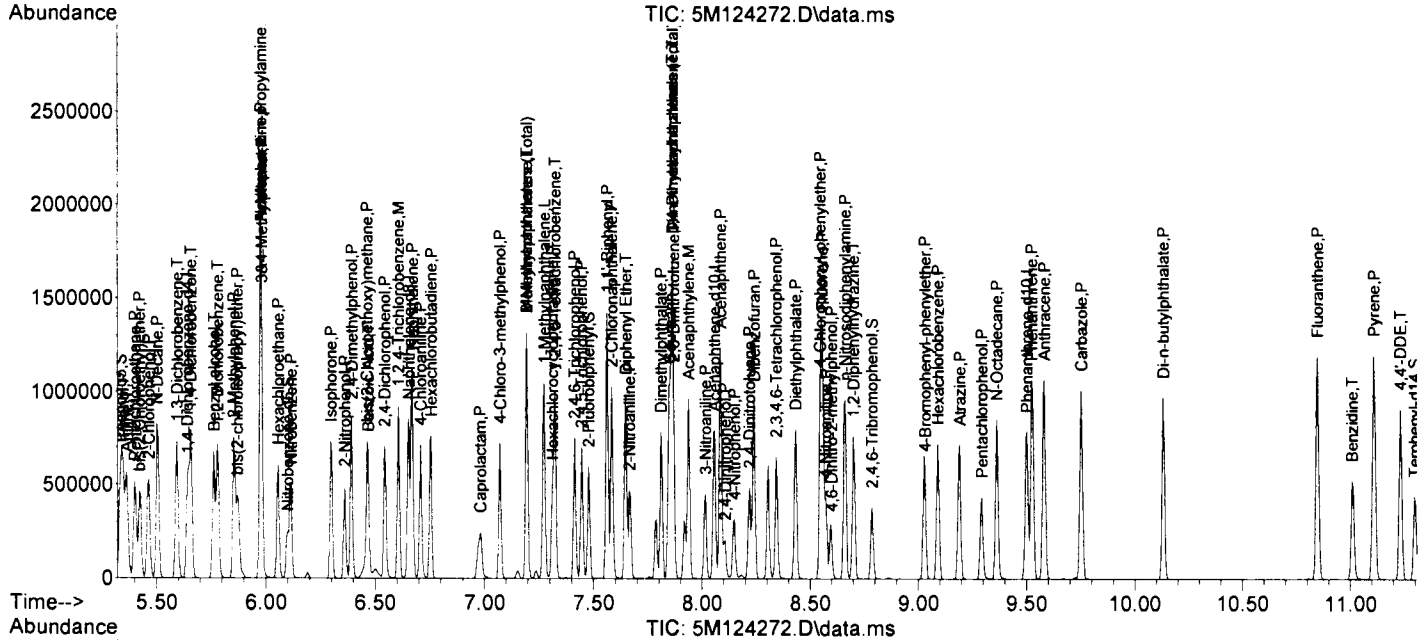
SampleID : CAL BNA@50PPM
Data File: 5M124272.D
Acq On : 06/23/23 09:06
Quant QT Reviewed
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 5M_0621.M
Qt On : 06/23/23 09:23
Qt Upd On: 06/21/23 15:50
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
1,3-Dichlorobenzene,T
1,4-Dichlorobenzene-d4,I
Time-->


Abundance
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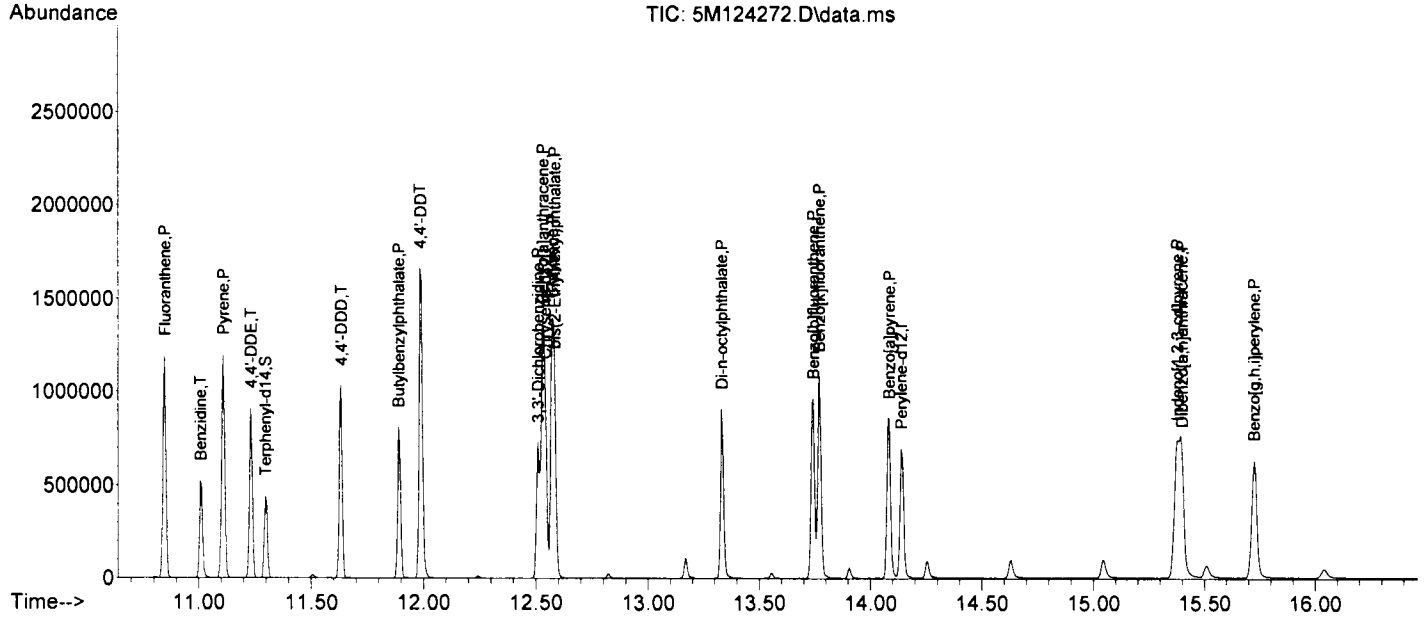
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
2,4-Dichlorophenol,P
4-Chloroaniline,P
Hexachlorobutadiene,P
Dimethylphthalate,P
Acenaphthylene,M
Diethylphthalate,P
2,3,4,6-Tetrachlorophenol,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Time-->


Abundance
TIC: 5M124272.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo(a)pyrene,P
Perylene-d12,I
Benzo(g,h,i)perylene,P
Time-->

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M122445.D **Instrument:** GCMS 9

Cont Calibration Date/Time 6/23/2023 9:28:00 A Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.58	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.61	50.98	50	**		1.040	1.061	1.96	
Pyridine	1	0		3.07	50.83	50	**		1.959	1.991	1.66	
N-Nitrosodimethylamine	1	0		3.01	53.57	50	**		1.550	1.661	7.15	
2-Fluorophenol	1	0	S	4.61	53.37	50	**		2.335	2.492	6.74	
Benzaldehyde	1	0		5.44	49.73	50	20	0.01	2.098	2.086	0.55	
Aniline	1	0		5.53	55.36	50	**		3.284	3.636	10.71	
Pentachloroethane	1	0		5.57	53.85	50	**	0.05	0.921	0.992	7.70	
bis(2-Chloroethyl)ether	1	0		5.59	51.71	50	20	0.7	2.462	2.547	3.43	
Phenol-d5	1	0	S	5.49	54.36	50	**		2.794	3.038	8.73	
Phenol	1	0		5.50	53.88	50	20	0.8	3.276	3.531	7.76	
2-Chlorophenol	1	0		5.63	52.36	50	20	0.8	2.548	2.669	4.72	
N-Decane	1	0		5.68	52.95	50	**	0.05	2.985	3.162	5.90	
1,3-Dichlorobenzene	1	0		5.76	51.34	50	**		2.828	2.904	2.69	
1,4-Dichlorobenzene-d4	1	0	I	5.81	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.82	48.85	50	20		1.523	1.488	2.30	
1,2-Dichlorobenzene	1	0		5.95	50.04	50	**		1.424	1.425	0.09	
Benzyl alcohol	1	0		5.92	52.94	50	**		0.854	0.904	5.88	
bis(2-chloroisopropyl)ether	1	0		6.04	52.23	50	20	0.01	1.906	1.991	4.46	
2-Methylphenol	1	0		6.01	50.42	50	20	0.7	1.206	1.217	0.84	
Acetophenone	1	0		6.14	55.81	50	20	0.01	1.677	1.871	11.63	
Hexachloroethane	1	0		6.22	50.71	50	20	0.3	0.563	0.571	1.43	
N-Nitroso-di-n-propylamine	1	0		6.14	51.16	50	20	0.5	0.920	0.942	2.32	
3&4-Methylphenol	1	0		6.14	52.23	50	20		1.233	1.288	4.47	
Naphthalene-d8	1	0	I	6.82	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.26	24.76	25	**		0.168	0.167	0.97	
Nitrobenzene	1	0		6.28	50.05	50	20	0.2	0.350	0.350	0.10	
Isophorone	1	0		6.46	50.38	50	20	0.4	0.653	0.658	0.76	
2-Nitrophenol	1	0		6.52	53.54	50	20	0.1	0.179	0.191	7.07	
2,4-Dimethylphenol	1	0		6.55	50.55	50	20	0.2	0.339	0.343	1.10	
Benzoic Acid	1	0		6.61	44.50	50	**		0.206	0.181	11.00	
bis(2-Chloroethoxy)methane	1	0		6.62	50.31	50	20	0.3	0.397	0.399	0.61	
2,4-Dichlorophenol	1	0		6.70	51.49	50	20	0.2	0.290	0.298	2.97	
1,2,4-Trichlorobenzene	1	0		6.77	50.06	50	**		0.325	0.325	0.12	
Naphthalene	1	0		6.84	45.40	50	20	0.7	1.141	1.036	9.20	
4-Chloroaniline	1	0		6.87	53.30	50	20	0.01	0.377	0.401	6.59	
Hexachlorobutadiene	1	0		6.92	49.44	50	20	0.01	0.187	0.185	1.12	
Caprolactam	1	0		7.14	54.02	50	20	0.01	0.103	0.111	8.03	
4-Chloro-3-methylphenol	1	0		7.23	52.70	50	20	0.2	0.275	0.289	5.41	
2-Methylnaphthalene	1	0		7.37	50.54	50	**	0.4	0.705	0.713	1.08	
1-Methylnaphthalene	1	0		7.45	49.45	50	**	0.4	0.660	0.653	1.11	
Methylnaphthalenes	1	0		7.45	101.12	50	**			1.373	102.24	
1,1'-Biphenyl	1	0		7.74	51.91	50	20	0.01	0.867	0.900	3.83	
Acenaphthene-d10	1	0	I	8.25	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.50	52.62	50	20	0.01	0.605	0.637	5.23	
Hexachlorocyclopentadiene	1	0		7.49	45.43	50	20	0.05	0.303	0.276	9.13	
2,4,6-Trichlorophenol	1	0		7.58	50.11	50	20	0.2	0.371	0.372	0.22	
2,4,5-Trichlorophenol	1	0		7.62	50.80	50	20	0.2	0.394	0.400	1.60	
2-Fluorobiphenyl	1	0	S	7.65	24.55	25	**		1.434	1.408	1.82	
2-Chloronaphthalene	1	0		7.77	48.82	50	20	0.8	1.179	1.151	2.35	
1,4-Dimethylnaphthalene	1	0		8.05	50.73	50	**		0.990	1.005	1.46	
Dimethylnaphthalenes	1	0		8.05	50.73	50	20			1.005	1.46	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M122445.D **Instrument:** GCMS 9

Cont Calibration Date/Time 6/23/2023 9:28:00 A Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.82	53.46	50	**		0.830	0.887	6.92	
2-Nitroaniline	1	0		7.84	54.69	50	20	0.01	0.376	0.411	9.38	
Coumarin	1	0		8.02	51.85		**		0.459			
Acenaphthylene	1	0		8.12	50.16	50	20	0.9	1.724	1.729	0.33	
Dimethylphthalate	1	0		7.98	50.27	50	20	0.01	1.279	1.286	0.54	
2,6-Dinitrotoluene	1	0		8.04	51.10	50	20	0.2	0.278	0.285	2.20	
Acenaphthene	1	0		8.28	49.12	50	20	0.9	1.234	1.213	1.75	
3-Nitroaniline	1	0		8.19	56.51	50	20	0.01	0.292	0.331	13.03	
2,4-Dinitrophenol	1	0		8.28	63.39	50	20	0.2	0.113	0.141	26.78	C1
Dibenzofuran	1	0		8.43	46.77	50	20	0.8	1.772	1.657	6.46	
2,4-Dinitrotoluene	1	0		8.40	52.76	50	20	0.2	0.352	0.372	5.51	
4-Nitrophenol	1	0		8.31	55.05	50	20	0.01	0.217	0.238	10.09	
2,3,4,6-Tetrachlorophenol	1	0		8.53	50.54	50	20	0.01	0.338	0.342	1.08	
Fluorene	1	0		8.75	49.85	50	20	0.9	1.366	1.362	0.30	
4-Chlorophenyl-phenylether	1	0		8.74	49.30	50	20	0.4	0.657	0.648	1.40	
Diethylphthalate	1	0		8.62	50.61	50	20	0.01	1.263	1.278	1.21	
4-Nitroaniline	1	0		8.75	53.51	50	20	0.01	0.328	0.351	7.02	
Atrazine	1	0		9.38	54.95	50	20	0.01	0.362	0.398	9.90	
Phenanthrene-d10	1	0	I	9.71	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.78	60.11	50	20	0.01	0.090	0.110	20.23	
n-Nitrosodiphenylamine	1	0		8.85	50.15	50	20	0.01	0.630	0.632	0.31	
2,4,6-Tribromophenol	1	0	S	8.98	51.53	50	**		0.100	0.103	3.06	
1,2-Diphenylhydrazine	1	0		8.90	49.60	50	**		0.716	0.710	0.80	
4-Bromophenyl-phenylether	1	0		9.23	49.62	50	20	0.1	0.216	0.215	0.76	
Hexachlorobenzene	1	0		9.30	48.19	50	20	0.1	0.236	0.227	3.61	
N-Octadecane	1	0		9.57	52.57	50	**	0.05	0.391	0.411	5.14	
Pentachlorophenol	1	0		9.49	48.22	50	20	0.05	0.135	0.130	3.56	
Phenanthrene	1	0		9.73	49.07	50	20	0.7	1.070	1.050	1.86	
Anthracene	1	0		9.79	49.91	50	20	0.7	1.093	1.091	0.18	
Carbazole	1	0		9.95	49.76	50	20	0.01	1.024	1.019	0.48	
Di-n-butylphthalate	1	0		10.34	49.37	50	20	0.01	1.248	1.233	1.26	
Fluoranthene	1	0		11.06	49.83	50	20	0.6	1.209	1.205	0.34	
Chrysene-d12	1	0	I	12.76	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.32	50.52	50	20	0.6	1.340	1.353	1.03	
Benzidine	1	0		11.21	57.97	50	**		0.474	0.614	15.94	
Terphenyl-d14	1	0	S	11.51	25.15	25	**		0.786	0.791	0.59	
4,4'-DDE	1	0		11.45	50.42		**		0.274			
4,4'-DDD	1	0		11.84	51.79		**		0.515			
Butylbenzylphthalate	1	0		12.10	52.30	50	20	0.01	0.566	0.592	4.60	
4,4'-DDT	1	0		12.20	55.62		**		0.386			
3,3'-Dichlorobenzidine	1	0		12.72	59.58	50	20	0.01	0.390	0.464	19.15	
Benzo[a]anthracene	1	0		12.75	50.61	50	20	0.8	1.279	1.295	1.23	
Chrysene	1	0		12.79	49.70	50	20	0.7	1.188	1.180	0.60	
bis(2-Ethylhexyl)phthalate	1	0		12.79	53.43	50	20	0.01	0.792	0.847	6.87	
Perylene-d12	1	0	I	14.37	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.54	55.27	50	20	0.01	1.318	1.457	10.54	
Benzo[b]fluoranthene	1	0		13.96	50.78	50	20	0.7	1.255	1.275	1.56	
Benzo[k]fluoranthene	1	0		13.99	51.83	50	20	0.7	1.184	1.227	3.67	
Benzo[a]pyrene	1	0		14.31	52.16	50	20	0.7	1.073	1.119	4.33	
Indeno[1,2,3-cd]pyrene	1	0		15.68	51.85	50	20	0.5	1.366	1.416	3.70	
Dibenzo[a,h]anthracene	1	0		15.70	51.76	50	20	0.4	1.079	1.117	3.52	
Benzo[g,h,i]perylene	1	0		16.05	51.27	50	20	0.5	1.125	1.153	2.54	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M122445.D **Instrument:** GCMS 9

Cont Calibration Date/Time 6/23/2023 9:28:00 A Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.990	0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.679	0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122445.D Sam Mult : 1 Vial# : 2 Qt On : 06/23/23 09:46
Acq On : 06/23/23 09:28 Misc : A,BNA Qt Upd On: 06/21/23 15:13

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-23-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.578	96	30443	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.813	152	59610	40.00	ng	0.00
31) Naphthalene-d8	6.819	136	218598	40.00	ng	0.00
50) Acenaphthene-d10	8.248	164	119758	40.00	ng	0.00
77) Phenanthrene-d10	9.707	188	218481	40.00	ng	0.00
91) Chrysene-d12	12.760	240	201643	40.00	ng	0.00
103) Perylene-d12	14.371	264	202415	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.613	112	94823	53.37	ng	0.00
Spiked Amount 100.000			Recovery = 53.37%			
16) Phenol-d5	5.489	99	115612	54.36	ng	0.00
Spiked Amount 100.000			Recovery = 54.36%			
32) Nitrobenzene-d5	6.260	128	22786	24.76	ng	0.00
Spiked Amount 50.000			Recovery = 49.52%			
55) 2-Fluorobiphenyl	7.654	172	105367	24.55	ng	0.00
Spiked Amount 50.000			Recovery = 49.10%			
80) 2,4,6-Tribromophenol	8.983	330	28129	51.53	ng	0.00
Spiked Amount 100.000			Recovery = 51.53%			
94) Terphenyl-d14	11.507	244	99682	25.15	ng	0.00
Spiked Amount 50.000			Recovery = 50.30%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.613	88	40363	50.9814	ng	76
9) Pyridine	3.066	79	75778	50.8310	ng	80
10) N-Nitrosodimethylamine	3.007	74	63190	53.5739	ng	81
12) Benzaldehyde	5.437	77	79389	49.7254	ng	99
13) Aniline	5.531	93	138368	55.3571	ng	94
14) Pentachloroethane	5.572	117	37764	53.8485	ng	79
15) bis(2-Chloroethyl)ether	5.589	93	96905	51.7133	ng	88
17) Phenol	5.501	94	134354	53.8794	ng	85
18) 2-Chlorophenol	5.631	128	101555	52.3615	ng	81
19) N-Decane	5.678	57	120315	52.9519	ng	73
20) 1,3-Dichlorobenzene	5.760	146	110504	51.3447	ng	97
22) 1,4-Dichlorobenzene	5.825	146	110861	48.8500	ng	96
23) 1,2-Dichlorobenzene	5.948	146	106202	50.0427	ng	98
24) Benzyl alcohol	5.925	108	67362	52.9386	ng	66
25) bis(2-chloroisopropyl)...	6.037	45	148325	52.2291	ng	100
26) 2-Methylphenol	6.013	108	90655	50.4207	ng	98
27) Acetophenone	6.136	105	139445	55.8127	ng	78
28) Hexachloroethane	6.225	117	42522	50.7147	ng	85
29) N-Nitroso-di-n-propyla...	6.136	70	70163	51.1612	ng	90
30) 3&4-Methylphenol	6.136	108	95994	52.2341	ng	98
33) Nitrobenzene	6.278	77	95768	50.0494	ng	73
34) Isophorone	6.460	82	179663	50.3782	ng	88
35) 2-Nitrophenol	6.525	139	52237	53.5362	ng	83
36) 2,4-Dimethylphenol	6.548	107	93763	50.5496	ng	86
37) Benzoic Acid	6.607	105	49569	44.4976	ng	86
38) bis(2-Chloroethoxy)met...	6.625	93	109023	50.3060	ng	95
39) 2,4-Dichlorophenol	6.701	162	81513	51.4855	ng	89
40) 1,2,4-Trichlorobenzene	6.772	180	88804	50.0603	ng	97
41) Naphthalene	6.836	128	283035m	45.3989	ng	
42) 4-Chloroaniline	6.866	127	109701m	53.2957	ng	
43) Hexachlorobutadiene	6.925	225	50481	49.4393	ng	97
44) Caprolactam	7.136	113	30414	54.0168	ng	67
45) 4-Chloro-3-methylphenol	7.231	107	79064	52.7027	ng	95
46) 2-Methylnaphthalene	7.366	142	194770	50.5407	ng	99
47) 1-Methylnaphthalene	7.448	142	178456	49.4471	ng	97
48) Methylnaphthalenes (To...	7.448	142	375132m	101.1185	ng	
49) 1,1'-Biphenyl	7.742	154	246054	51.9126	ng	94
51) 1,2,4,5-Tetrachloroben...	7.501	216	95351	52.6156	ng	99
52) Hexachlorocyclopentadiene	7.489	237	41262	45.4340	ng	98
53) 2,4,6-Trichlorophenol	7.583	196	55645m	50.1124	ng	
54) 2,4,5-Trichlorophenol	7.619	196	59852	50.8010	ng	97
56) 2-Chloronaphthalene	7.766	162	172343	48.8229	ng	90
57) 1,4-Dimethylnaphthalene	8.048	156	150433	50.7303	ng	83
58) Dimethylnaphthalenes (...	8.048	156	150433	50.7303	ng	83
59) Diphenyl Ether	7.825	170	132783	53.4582	ng	78
60) 2-Nitroaniline	7.842	65	61495	54.6887	ng	51
61) Coumarin	8.025	146	71317	51.8483	ng	91
62) Acenaphthylene	8.125	152	258870	50.1648	ng	98
63) Dimethylphthalate	7.983	163	192469	50.2681	ng	98
64) 2,6-Dinitrotoluene	8.042	165	42589	51.1016	ng	65
65) Acenaphthene	8.278	153	181553	49.1231	ng	98

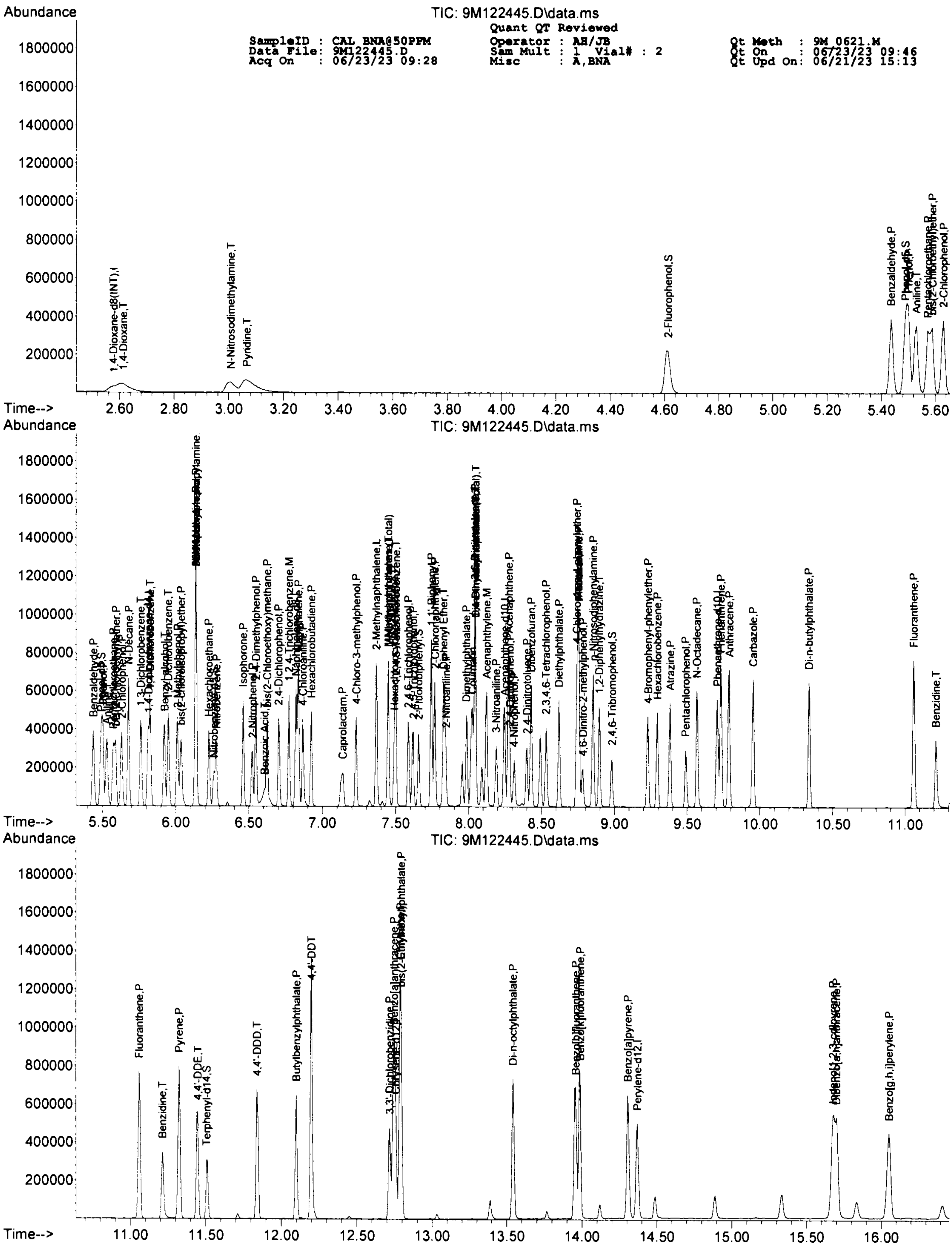
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 9M_0621.M
Data File: 9M122445.D Sam Mult : 1 Vial# : 2 Qt On : 06/23/23 09:46
Acq On : 06/23/23 09:28 Misc : A,BNA Qt Upd On: 06/21/23 15:13

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-23-23\
Qt Path : G:\GCMSDATA\2023\GCMS_9\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.189	138	49477	56.5132	ng	74
67)	2,4-Dinitrophenol	8.283	184	21094	63.3897	ng	42
68)	Dibenzofuran	8.430	168	248121	46.7701	ng	82
69)	2,4-Dinitrotoluene	8.401	165	55655	52.7572	ng	60
70)	4-Nitrophenol	8.313	65	35681	55.0456	ng	97
71)	2,3,4,6-Tetrachlorophenol	8.530	232	51156	50.5419	ng	82
72)	Fluorene	8.754	166	203888	49.8509	ng	99
73)	4-Chlorophenyl-phenyle...	8.742	204	96959	49.2999	ng	79
74)	Diethylphthalate	8.619	149	191371	50.6072	ng	97
75)	4-Nitroaniline	8.754	138	52581	53.5095	ng	73
76)	Atrazine	9.383	200	59582	54.9490	ng	96
78)	4,6-Dinitro-2-methylph...	8.783	198	30063	60.1145	ng	72
79)	n-Nitrosodiphenylamine	8.854	169	172596	50.1526	ng	98
81)	1,2-Diphenylhydrazine	8.895	77	193876	49.6010	ng	86
82)	4-Bromophenyl-phenylether	9.230	248	58613	49.6218	ng	80
83)	Hexachlorobenzene	9.295	284	62088	48.1943	ng	62
84)	N-Octadecane	9.566	57	112330	52.5682	ng	90
85)	Pentachlorophenol	9.489	266	35508	48.2221	ng	96
86)	Phenanthrene	9.730	178	286795	49.0721	ng	100
87)	Anthracene	9.789	178	298073	49.9123	ng	99
88)	Carbazole	9.954	167	278328	49.7607	ng	95
89)	Di-n-butylphthalate	10.336	149	336631	49.3688	ng	97
90)	Fluoranthene	11.060	202	328954	49.8295	ng	94
92)	Pyrene	11.324	202	341121	50.5156	ng	91
93)	Benzidine	11.213	184	154734	57.9698	ng	87
95)	4,4'-DDE	11.448	246	69643	50.4182	ng	93
96)	4,4'-DDD	11.842	235	134565	51.7906	ng	96
97)	Butylbenzylphthalate	12.101	149	149200	52.3006	ng	72
98)	4,4'-DDT	12.201	235	108238	55.6198	ng	98
99)	3,3'-Dichlorobenzidine	12.718	252	116996	59.5770	ng	94
100)	Benzo[a]anthracene	12.748	228	326353	50.6137	ng	99
101)	Chrysene	12.789	228	297538	49.6986	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.795	149	213382	53.4344	ng	94
104)	Di-n-octylphthalate	13.542	149	368731	55.2712	ng	100
105)	Benzo[b]fluoranthene	13.960	252	322622	50.7805	ng	97
106)	Benzo[k]fluoranthene	13.989	252	310494m	51.8329	ng	
107)	Benzo[a]pyrene	14.307	252	283135	52.1630	ng	94
108)	Indeno[1,2,3-cd]pyrene	15.677	276	358393	51.8490	ng	84
109)	Dibenzo[a,h]anthracene	15.701	278	282517	51.7607	ng	91
110)	Benzo[g,h,i]perylene	16.054	276	291781	51.2688	ng	77

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M122445.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@50PPM
Data File: 9M122445.D
Acq On : 06/23/23 09:28
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 9M_0621.M
Qt On : 06/23/23 09:46
Qt Upd On: 06/21/23 15:13
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Aniline,T
2-Chlorophenol,P
Time-->
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Methylnaphthalene,L
Acenaphthylene,M
3-Nitroaniline,P
2,4-Dinitrotoluene,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4,6-Dinitro-2-methylphenol,P
1,2-Diphenylhydrazine,T
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Perylene-d12,I
Benzo[a]pyrene,P
Benzo[g,h,i]perylene,P

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M129479.D **Instrument:** GCMS 7

Cont Calibration Date/Time 6/23/2023 5:49:00 P Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.62	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.66	48.57	50	**		1.034	1.004	2.86	
Pyridine	1	0		3.13	50.67	50	**		1.934	1.960	1.35	
N-Nitrosodimethylamine	1	0		3.07	50.61	50	**		1.541	1.559	1.23	
2-Fluorophenol	1	0	S	4.66	55.12	50	**		2.418	2.665	10.23	
Benzaldehyde	1	0		5.46	53.52	50	20	0.01	1.991	2.132	7.05	
Aniline	1	0		5.55	54.50	50	**		3.462	3.774	9.00	
Pentachloroethane	1	0		5.59	54.61	50	**	0.05	0.878	0.959	9.21	
bis(2-Chloroethyl)ether	1	0		5.61	53.54	50	20	0.7	2.384	2.553	7.08	
Phenol-d5	1	0	S	5.53	55.60	50	**		2.857	3.176	11.19	
Phenol	1	0		5.54	55.62	50	20	0.8	3.255	3.621	11.24	
2-Chlorophenol	1	0		5.65	55.56	50	20	0.8	2.449	2.721	11.12	
N-Decane	1	0		5.69	53.20	50	**	0.05	2.322	2.470	6.39	
1,3-Dichlorobenzene	1	0		5.78	54.97	50	**		2.510	2.760	9.94	
1,4-Dichlorobenzene-d4	1	0	I	5.83	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.84	50.47	50	20		1.524	1.538	0.93	
1,2-Dichlorobenzene	1	0		5.97	50.85	50	**		1.453	1.477	1.69	
Benzyl alcohol	1	0		5.95	50.74	50	**		1.030	1.045	1.48	
bis(2-chloroisopropyl)ether	1	0		6.05	47.67	50	20	0.01	1.698	1.619	4.66	
2-Methylphenol	1	0		6.04	50.11	50	20	0.7	1.378	1.381	0.23	
Acetophenone	1	0		6.16	52.30	50	20	0.01	2.002	2.094	4.60	
Hexachloroethane	1	0		6.24	49.99	50	20	0.3	0.626	0.626	0.03	
N-Nitroso-di-n-propylamine	1	0		6.16	51.01	50	20	0.5	0.992	1.012	2.01	
3&4-Methylphenol	1	0		6.17	52.07	50	20		1.352	1.408	4.14	
Naphthalene-d8	1	0	I	6.84	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.28	24.78	25	**		0.185	0.183	0.89	
Nitrobenzene	1	0		6.29	49.46	50	20	0.2	0.384	0.379	1.07	
Isophorone	1	0		6.48	49.96	50	20	0.4	0.734	0.734	0.07	
2-Nitrophenol	1	0		6.54	51.07	50	20	0.1	0.208	0.213	2.13	
2,4-Dimethylphenol	1	0		6.57	50.10	50	20	0.2	0.372	0.373	0.19	
Benzoic Acid	1	0		6.66	45.78	50	**		0.303	0.278	8.44	
bis(2-Chloroethoxy)methane	1	0		6.64	49.57	50	20	0.3	0.430	0.426	0.86	
2,4-Dichlorophenol	1	0		6.73	51.28	50	20	0.2	0.300	0.308	2.55	
1,2,4-Trichlorobenzene	1	0		6.79	50.27	50	**		0.309	0.310	0.53	
Naphthalene	1	0		6.85	49.56	50	20	0.7	1.070	1.060	0.88	
4-Chloroaniline	1	0		6.89	69.76	50	20	0.01	0.404	0.564	39.52	C1
Hexachlorobutadiene	1	0		6.94	51.31	50	20	0.01	0.158	0.163	2.63	
Caprolactam	1	0		7.18	50.92	50	20	0.01	0.138	0.141	1.84	
4-Chloro-3-methylphenol	1	0		7.26	52.57	50	20	0.2	0.334	0.351	5.13	
2-Methylnaphthalene	1	0		7.39	51.72	50	**	0.4	0.694	0.718	3.44	
1-Methylnaphthalene	1	0		7.47	50.91	50	**	0.4	0.649	0.661	1.81	
Methylnaphthalenes	1	0		7.39	102.54	50	**			1.379	105.08	
1,1'-Biphenyl	1	0		7.76	51.56	50	20	0.01	0.862	0.889	3.12	
Acenaphthene-d10	1	0	I	8.27	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.52	49.65	50	20	0.01	0.508	0.504	0.70	
Hexachlorocyclopentadiene	1	0		7.51	19.80	50	20	0.05	0.145	0.051	60.40	C1
2,4,6-Trichlorophenol	1	0		7.62	47.70	50	20	0.2	0.374	0.357	4.61	
2,4,5-Trichlorophenol	1	0		7.65	47.44	50	20	0.2	0.393	0.373	5.13	
2-Fluorobiphenyl	1	0	S	7.68	24.91	25	**		1.305	1.300	0.35	
2-Chloronaphthalene	1	0		7.79	49.44	50	20	0.8	1.117	1.105	1.13	
1,4-Dimethylnaphthalene	1	0		8.08	49.10	50	**		0.869	0.853	1.81	
Dimethylnaphthalenes	1	0		8.08	49.10	50	20			0.853	1.81	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M129479.D **Instrument:** GCMS 7

Cont Calibration Date/Time 6/23/2023 5:49:00 P Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.85	49.68	50	**		0.808	0.803	0.64	
2-Nitroaniline	1	0		7.87	49.41	50	20	0.01	0.417	0.412	1.17	
Coumarin	1	0		8.06	49.85		**		0.459			
Acenaphthylene	1	0		8.15	49.97	50	20	0.9	1.578	1.577	0.06	
Dimethylphthalate	1	0		8.02	50.31	50	20	0.01	1.312	1.320	0.62	
2,6-Dinitrotoluene	1	0		8.08	49.62	50	20	0.2	0.287	0.285	0.75	
Acenaphthene	1	0		8.30	49.30	50	20	0.9	1.074	1.059	1.40	
3-Nitroaniline	1	0		8.23	51.22	50	20	0.01	0.338	0.346	2.43	
2,4-Dinitrophenol	1	0		8.33	52.17	50	20	0.2	0.160	0.167	4.34	
Dibenzofuran	1	0		8.46	49.64	50	20	0.8	1.612	1.600	0.72	
2,4-Dinitrotoluene	1	0		8.44	51.29	50	20	0.2	0.417	0.427	2.57	
4-Nitrophenol	1	0		8.37	42.97	50	20	0.01	0.257	0.221	14.06	
2,3,4,6-Tetrachlorophenol	1	0		8.57	49.06	50	20	0.01	0.302	0.296	1.87	
Fluorene	1	0		8.79	50.51	50	20	0.9	1.286	1.299	1.02	
4-Chlorophenyl-phenylether	1	0		8.77	50.85	50	20	0.4	0.612	0.623	1.70	
Diethylphthalate	1	0		8.65	50.77	50	20	0.01	1.284	1.304	1.53	
4-Nitroaniline	1	0		8.80	49.46	50	20	0.01	0.371	0.367	1.08	
Atrazine	1	0		9.43	50.67	50	20	0.01	0.396	0.401	1.34	
Phenanthrene-d10	1	0	I	9.75	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.83	52.09	50	20	0.01	0.130	0.135	4.18	
n-Nitrosodiphenylamine	1	0		8.89	49.55	50	20	0.01	0.658	0.652	0.89	
2,4,6-Tribromophenol	1	0	S	9.03	49.12	50	**		0.090	0.088	1.76	
1,2-Diphenylhydrazine	1	0		8.93	49.96	50	**		0.811	0.810	0.08	
4-Bromophenyl-phenylether	1	0		9.27	49.65	50	20	0.1	0.205	0.203	0.70	
Hexachlorobenzene	1	0		9.34	49.08	50	20	0.1	0.216	0.212	1.84	
N-Octadecane	1	0		9.60	48.88	50	**	0.05	0.382	0.374	2.25	
Pentachlorophenol	1	0		9.54	44.54	50	20	0.05	0.123	0.109	10.91	
Phenanthrene	1	0		9.78	48.57	50	20	0.7	1.064	1.033	2.86	
Anthracene	1	0		9.83	49.56	50	20	0.7	1.083	1.073	0.89	
Carbazole	1	0		10.01	49.42	50	20	0.01	1.061	1.049	1.16	
Di-n-butylphthalate	1	0		10.38	49.42	50	20	0.01	1.323	1.308	1.16	
Fluoranthene	1	0		11.12	48.90	50	20	0.6	1.169	1.144	2.20	
Chrysene-d12	1	0	I	12.83	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.39	52.89	50	20	0.6	1.491	1.577	5.78	
Benzidine	1	0		11.28	44.61	50	**		0.834	0.744	10.78	
Terphenyl-d14	1	0	S	11.57	26.13	25	**		0.868	0.908	4.51	
4,4'-DDE	1	0		11.50	52.67		**		0.305			
4,4'-DDD	1	0		11.91	52.94		**		0.565			
Butylbenzylphthalate	1	0		12.16	51.59	50	20	0.01	0.733	0.756	3.18	
4,4'-DDT	1	0		12.26	53.38		**		0.419			
3,3'-Dichlorobenzidine	1	0		12.79	50.97	50	20	0.01	0.479	0.488	1.95	
Benzo[a]anthracene	1	0		12.82	49.07	50	20	0.8	1.317	1.292	1.86	
Chrysene	1	0		12.87	50.52	50	20	0.7	1.154	1.166	1.03	
bis(2-Ethylhexyl)phthalate	1	0		12.85	52.39	50	20	0.01	0.923	0.967	4.78	
Perylene-d12	1	0	I	14.49	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.61	49.20	50	20	0.01	1.714	1.687	1.60	
Benzo[b]fluoranthene	1	0		14.05	47.39	50	20	0.7	1.284	1.217	5.22	
Benzo[k]fluoranthene	1	0		14.08	49.91	50	20	0.7	1.181	1.179	0.18	
Benzo[a]pyrene	1	0		14.42	47.95	50	20	0.7	1.106	1.061	4.11	
Indeno[1,2,3-cd]pyrene	1	0		15.88	50.22	50	20	0.5	1.284	1.289	0.44	
Dibenzo[a,h]anthracene	1	0		15.90	50.77	50	20	0.4	1.066	1.083	1.54	
Benzo[g,h,i]perylene	1	0		16.28	49.78	50	20	0.5	1.058	1.054	0.44	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M129479.D **Instrument:** GCMS 7

Cont Calibration Date/Time 6/23/2023 5:49:00 P Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.672	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.869	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129479.D Sam Mult : 1 Vial# : 2 Qt On : 06/23/23 18:06
Acq On : 06/23/23 17:49 Misc : A,BNA Qt Upd On: 06/19/23 13:33

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-2323\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.623	96	69033	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.831	152	123570	40.00	ng	0.00
31) Naphthalene-d8	6.835	136	511713	40.00	ng	0.00
50) Acenaphthene-d10	8.275	164	318304	40.00	ng	0.00
77) Phenanthrene-d10	9.750	188	557252	40.00	ng	0.00
91) Chrysene-d12	12.834	240	401239	40.00	ng	0.01
103) Perylene-d12	14.485	264	398879	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.655	112	229997	55.12	ng	0.01
Spiked Amount 100.000			Recovery = 55.12%			
16) Phenol-d5	5.531	99	274078	55.60	ng	0.01
Spiked Amount 100.000			Recovery = 55.60%			
32) Nitrobenzene-d5	6.277	128	58591	24.78	ng	0.00
Spiked Amount 50.000			Recovery = 49.56%			
55) 2-Fluorobiphenyl	7.676	172	258677	24.91	ng	0.00
Spiked Amount 50.000			Recovery = 49.82%			
80) 2,4,6-Tribromophenol	9.027	330	61275	49.12	ng	0.00
Spiked Amount 100.000			Recovery = 49.12%			
94) Terphenyl-d14	11.565	244	227581	26.13	ng	0.00
Spiked Amount 50.000			Recovery = 52.26%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.658	88	86675	48.5719	ng	98
9) Pyridine	3.128	79	169120	50.6748	ng	72
10) N-Nitrosodimethylamine	3.075	74	134562	50.6126	ng	78
12) Benzaldehyde	5.460	77	183953	53.5249	ng	72
13) Aniline	5.554	93	325664	54.5011	ng	93
14) Pentachloroethane	5.590	117	82731	54.6050	ng	84
15) bis(2-Chloroethyl)ether	5.613	93	220290	53.5395	ng	77
17) Phenol	5.543	94	312452	55.6219	ng	96
18) 2-Chlorophenol	5.654	128	234786	55.5576	ng	82
19) N-Decane	5.690	57	213140	53.1974	ng	91
20) 1,3-Dichlorobenzene	5.778	146	238165	54.9713	ng	98
22) 1,4-Dichlorobenzene	5.842	146	237630	50.4655	ng	97
23) 1,2-Dichlorobenzene	5.966	146	228189	50.8469	ng	98
24) Benzyl alcohol	5.948	108	161458	50.7395	ng	74
25) bis(2-chloroisopropyl)...	6.054	45	250050	47.6704	ng	91
26) 2-Methylphenol	6.042	108	213376	50.1131	ng	96
27) Acetophenone	6.160	105	323414	52.2979	ng	70
28) Hexachloroethane	6.236	117	96640	49.9860	ng	82
29) N-Nitroso-di-n-propyla...	6.160	70	156382	51.0072	ng	79
30) 3&4-Methylphenol	6.165	108	217415	52.0697	ng	100
33) Nitrobenzene	6.295	77	242683	49.4647	ng	80
34) Isophorone	6.483	82	469261	49.9639	ng	85
35) 2-Nitrophenol	6.542	139	135926	51.0673	ng	91
36) 2,4-Dimethylphenol	6.571	107	238355	50.0959	ng	97
37) Benzoic Acid	6.665	105	177557	45.7804	ng	45
38) bis(2-Chloroethoxy)met...	6.641	93	272509	49.5716	ng	96
39) 2,4-Dichlorophenol	6.730	162	196992	51.2768	ng	89
40) 1,2,4-Trichlorobenzene	6.788	180	198491	50.2651	ng	99
41) Naphthalene	6.853	128	678199	49.5593	ng	99
42) 4-Chloroaniline	6.888	127	360494	69.7615	ng	92
43) Hexachlorobutadiene	6.935	225	103950	51.3136	ng	97
44) Caprolactam	7.182	113	89950	50.9223	ng	71
45) 4-Chloro-3-methylphenol	7.264	107	224676	52.5653	ng	85
46) 2-Methylnaphthalene	7.388	142	459148	51.7205	ng	99
47) 1-Methylnaphthalene	7.470	142	422761	50.9059	ng	91
48) Methylnaphthalenes (To...	7.388	142	881775m	102.5388	ng	
49) 1,1'-Biphenyl	7.764	154	568464	51.5588	ng	94
51) 1,2,4,5-Tetrachloroben...	7.523	216	200581	49.6503	ng	98
52) Hexachlorocyclopentadiene	7.505	237	20121	19.8010	ng	98
53) 2,4,6-Trichlorophenol	7.617	196	142097	47.6955	ng	99
54) 2,4,5-Trichlorophenol	7.652	196	148406	47.4375	ng	98
56) 2-Chloronaphthalene	7.787	162	439603	49.4374	ng	93
57) 1,4-Dimethylnaphthalene	8.075	156	339363	49.0972	ng	89
58) Dimethylnaphthalenes (...	8.075	156	339363	49.0972	ng	89
59) Diphenyl Ether	7.846	170	319591	49.6824	ng	81
60) 2-Nitroaniline	7.869	65	163900	49.4142	ng	57
61) Coumarin	8.063	146	181915	49.8457	ng	68
62) Acenaphthylene	8.151	152	627546	49.9705	ng	100
63) Dimethylphthalate	8.016	163	525261	50.3112	ng	99
64) 2,6-Dinitrotoluene	8.075	165	113210	49.6236	ng	66
65) Acenaphthene	8.304	153	421301	49.3014	ng	98

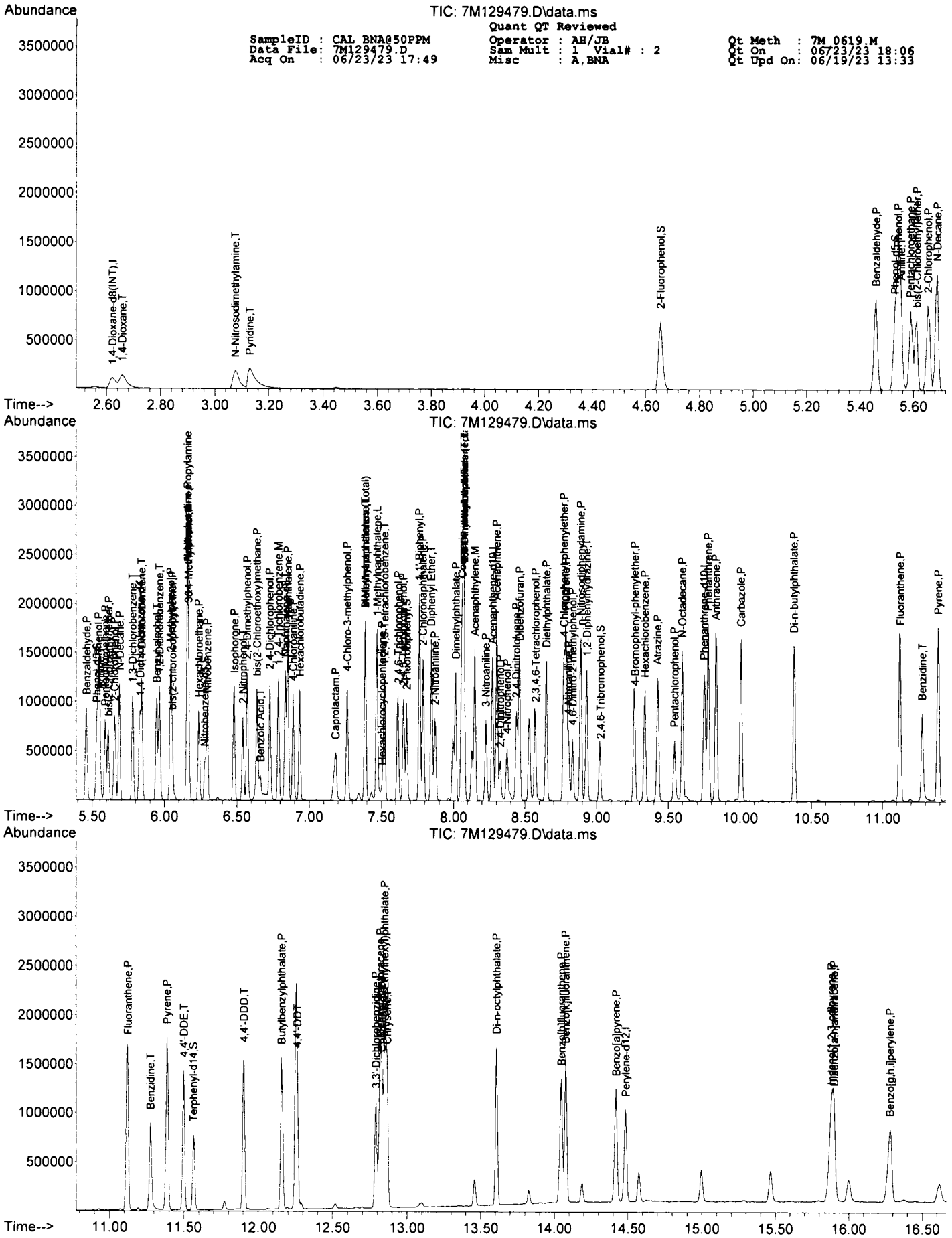
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129479.D Sam Mult : 1 Vial# : 2 Qt On : 06/23/23 18:06
Acq On : 06/23/23 17:49 Misc : A,BNA Qt Upd On: 06/19/23 13:33

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-2323\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.228	138	137697	51.2174	ng	82
67)	2,4-Dinitrophenol	8.328	184	66401	52.1709	ng	39
68)	Dibenzofuran	8.463	168	636681	49.6416	ng	85
69)	2,4-Dinitrotoluene	8.439	165	170091	51.2867	ng	68
70)	4-Nitrophenol	8.375	65	88025	42.9704	ng	83
71)	2,3,4,6-Tetrachlorophenol	8.574	232	117912	49.0633	ng	86
72)	Fluorene	8.786	166	516832	50.5085	ng	99
73)	4-Chlorophenyl-phenyle...	8.774	204	247692	50.8483	ng	84
74)	Diethylphthalate	8.651	149	518757	50.7671	ng	96
75)	4-Nitroaniline	8.804	138	145851	49.4618	ng	79
76)	Atrazine	9.426	200	159556	50.6685	ng	98
78)	4,6-Dinitro-2-methylph...	8.833	198	94220	52.0900	ng	61
79)	n-Nitrosodiphenylamine	8.892	169	454480	49.5546	ng	98
81)	1,2-Diphenylhydrazine	8.933	77	564178	49.9602	ng	80
82)	4-Bromophenyl-phenylether	9.268	248	141579	49.6523	ng	84
83)	Hexachlorobenzene	9.338	284	147494	49.0795	ng	67
84)	N-Octadecane	9.597	57	260384	48.8764	ng	78
85)	Pentachlorophenol	9.544	266	76098	44.5447	ng	98
86)	Phenanthrene	9.779	178	719686	48.5711	ng	99
87)	Anthracene	9.832	178	747646	49.5567	ng	100
88)	Carbazole	10.008	167	730775	49.4221	ng	97
89)	Di-n-butylphthalate	10.378	149	910972	49.4191	ng	98
90)	Fluoranthene	11.124	202	796590	48.9005	ng	88
92)	Pyrene	11.389	202	790966	52.8893	ng	88
93)	Benzidine	11.277	184	373186	44.6118	ng	87
95)	4,4'-DDE	11.501	246	161168	52.6695	ng	97
96)	4,4'-DDD	11.906	235	300178	52.9368	ng	92
97)	Butylbenzylphthalate	12.159	149	379072	51.5876	ng	75
98)	4,4'-DDT	12.264	235	224297	53.3782	ng	95
99)	3,3'-Dichlorobenzidine	12.793	252	244711	50.9728	ng	96
100)	Benzo[a]anthracene	12.823	228	648034	49.0703	ng	100
101)	Chrysene	12.870	228	584607	50.5151	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.852	149	484855	52.3903	ng	93
104)	Di-n-octylphthalate	13.610	149	840944	49.2004	ng	99
105)	Benzo[b]fluoranthene	14.051	252	606673m	47.3924	ng	
106)	Benzo[k]fluoranthene	14.080	252	587956m	49.9077	ng	
107)	Benzo[a]pyrene	14.421	252	528923	47.9466	ng	92
108)	Indeno[1,2,3-cd]pyrene	15.884	276	642782	50.2189	ng	87
109)	Dibenzo[a,h]anthracene	15.901	278	539829	50.7696	ng	88
110)	Benzo[g,h,i]perylene	16.283	276	525294	49.7813	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 7M129479.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@50PPM
Data File: 7M129479.D
Acq On : 06/23/23 17:49
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 7M_0619.M
Qt On : 06/23/23 18:06
Qt Upd On: 06/19/23 13:33
Abundance
Time-->
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
TIC: 7M129479.D\data.ms
Abundance
Time-->
Benzaldehyde,P
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Nitrophenol,P
Isophorone,P
2,4-Dichlorophenol,P
Benzoic Acid,T
Naphthalene,P
Hexachlorobutadiene,P
Dimethylphthalate,P
Acenaphthylene,M
Acenaphthene,P
2,4-Dinitrophenol,P
4-Nitrophenol,P
Dibenzofuran,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Chlorophenyl-phenylether,P
Fluorene,P
4-Nitroaniline,P
4,6-Dinitro-2-methylphenol,P
1,2-Diphenylhydrazine,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
TIC: 7M129479.D\data.ms
Abundance
Time-->
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
3,3'-Dichlorobenzidine,P
Bis(2-ethylhexyl)phthalate,P
Chrysene,P
Di-n-octylphthalate,P
Benzo[b]fluoranthene,P
Benzo[k]fluoranthene,P
Benzo[a]pyrene,P
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,P
Dibenz[a,h]anthracene,P
Benzo[g,h,i]perylene,P

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M129512.D **Instrument:** GCMS 7

Cont Calibration Date/Time 6/26/2023 8:22:00 A Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.62	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.65	48.47	50	**		1.034	1.002	3.06	
Pyridine	1	0		3.12	49.46	50	**		1.934	1.913	1.07	
N-Nitrosodimethylamine	1	0		3.07	51.50	50	**		1.541	1.587	3.00	
2-Fluorophenol	1	0	S	4.66	55.40	50	**		2.418	2.679	10.81	
Benzaldehyde	1	0		5.46	52.93	50	20	0.01	1.991	2.108	5.86	
Aniline	1	0		5.55	55.27	50	**		3.462	3.828	10.55	
Pentachloroethane	1	0		5.60	55.93	50	**	0.05	0.878	0.982	11.86	
bis(2-Chloroethyl)ether	1	0		5.61	55.79	50	20	0.7	2.384	2.660	11.59	
Phenol-d5	1	0	S	5.54	55.93	50	**		2.857	3.196	11.87	
Phenol	1	0		5.55	56.43	50	20	0.8	3.255	3.674	12.86	
2-Chlorophenol	1	0		5.66	56.10	50	20	0.8	2.449	2.747	12.19	
N-Decane	1	0		5.69	55.09	50	**	0.05	2.322	2.558	10.18	
1,3-Dichlorobenzene	1	0		5.78	53.82	50	**		2.510	2.702	7.64	
1,4-Dichlorobenzene-d4	1	0	I	5.83	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.85	50.23	50	20		1.524	1.531	0.46	
1,2-Dichlorobenzene	1	0		5.97	50.52	50	**		1.453	1.468	1.03	
Benzyl alcohol	1	0		5.95	51.23	50	**		1.030	1.055	2.45	
bis(2-chloroisopropyl)ether	1	0		6.05	50.74	50	20	0.01	1.698	1.723	1.49	
2-Methylphenol	1	0		6.05	50.44	50	20	0.7	1.378	1.390	0.87	
Acetophenone	1	0		6.17	52.62	50	20	0.01	2.002	2.107	5.24	
Hexachloroethane	1	0		6.24	52.16	50	20	0.3	0.626	0.653	4.31	
N-Nitroso-di-n-propylamine	1	0		6.16	52.62	50	20	0.5	0.992	1.044	5.23	
3&4-Methylphenol	1	0		6.17	51.66	50	20		1.352	1.396	3.31	
Naphthalene-d8	1	0	I	6.85	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.28	24.66	25	**		0.185	0.182	1.34	
Nitrobenzene	1	0		6.30	51.72	50	20	0.2	0.384	0.397	3.45	
Isophorone	1	0		6.48	50.44	50	20	0.4	0.734	0.741	0.87	
2-Nitrophenol	1	0		6.55	50.20	50	20	0.1	0.208	0.209	0.40	
2,4-Dimethylphenol	1	0		6.58	51.09	50	20	0.2	0.372	0.380	2.18	
Benzoic Acid	1	0		6.67	40.85	50	**		0.303	0.248	18.30	
bis(2-Chloroethoxy)methane	1	0		6.65	51.07	50	20	0.3	0.430	0.439	2.14	
2,4-Dichlorophenol	1	0		6.74	50.01	50	20	0.2	0.300	0.300	0.02	
1,2,4-Trichlorobenzene	1	0		6.80	48.63	50	**		0.309	0.300	2.73	
Naphthalene	1	0		6.86	48.26	50	20	0.7	1.070	1.033	3.48	
4-Chloroaniline	1	0		6.90	53.35	50	20	0.01	0.404	0.431	6.69	
Hexachlorobutadiene	1	0		6.95	48.23	50	20	0.01	0.158	0.153	3.53	
Caprolactam	1	0		7.20	49.33	50	20	0.01	0.138	0.136	1.34	
4-Chloro-3-methylphenol	1	0		7.28	51.44	50	20	0.2	0.334	0.344	2.88	
2-Methylnaphthalene	1	0		7.41	50.12	50	**	0.4	0.694	0.696	0.25	
1-Methylnaphthalene	1	0		7.48	49.83	50	**	0.4	0.649	0.647	0.35	
Methylnaphthalenes	1	0		7.41	100.09	50	**			1.346	100.19	
1,1'-Biphenyl	1	0		7.78	49.24	50	20	0.01	0.862	0.849	1.52	
Acenaphthene-d10	1	0	I	8.29	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.54	48.80	50	20	0.01	0.508	0.496	2.40	
Hexachlorocyclopentadiene	1	0		7.52	13.57	50	20	0.05	0.145	0.034	72.87	C1
2,4,6-Trichlorophenol	1	0		7.63	46.75	50	20	0.2	0.374	0.350	6.50	
2,4,5-Trichlorophenol	1	0		7.67	48.27	50	20	0.2	0.393	0.380	3.45	
2-Fluorobiphenyl	1	0	S	7.69	25.22	25	**		1.305	1.316	0.88	
2-Chloronaphthalene	1	0		7.80	50.41	50	20	0.8	1.117	1.127	0.82	
1,4-Dimethylnaphthalene	1	0		8.09	49.64	50	**		0.869	0.862	0.72	
Dimethylnaphthalenes	1	0		8.09	49.64	50	20			0.862	0.72	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M129512.D **Instrument:** GCMS 7

Cont Calibration Date/Time 6/26/2023 8:22:00 A Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.86	49.88	50	**		0.808	0.806	0.24	
2-Nitroaniline	1	0		7.89	53.80	50	20	0.01	0.417	0.448	7.60	
Coumarin	1	0		8.08	50.92		**		0.459			
Acenaphthylene	1	0		8.17	49.82	50	20	0.9	1.578	1.573	0.36	
Dimethylphthalate	1	0		8.03	50.14	50	20	0.01	1.312	1.316	0.29	
2,6-Dinitrotoluene	1	0		8.09	50.55	50	20	0.2	0.287	0.290	1.10	
Acenaphthene	1	0		8.32	49.68	50	20	0.9	1.074	1.067	0.64	
3-Nitroaniline	1	0		8.25	52.48	50	20	0.01	0.338	0.355	4.97	
2,4-Dinitrophenol	1	0		8.35	48.54	50	20	0.2	0.160	0.155	2.92	
Dibenzofuran	1	0		8.48	49.44	50	20	0.8	1.612	1.594	1.11	
2,4-Dinitrotoluene	1	0		8.46	51.65	50	20	0.2	0.417	0.430	3.29	
4-Nitrophenol	1	0		8.40	41.62	50	20	0.01	0.257	0.214	16.77	
2,3,4,6-Tetrachlorophenol	1	0		8.59	48.12	50	20	0.01	0.302	0.291	3.77	
Fluorene	1	0		8.80	50.62	50	20	0.9	1.286	1.302	1.25	
4-Chlorophenyl-phenylether	1	0		8.79	49.95	50	20	0.4	0.612	0.611	0.11	
Diethylphthalate	1	0		8.67	51.50	50	20	0.01	1.284	1.323	3.00	
4-Nitroaniline	1	0		8.83	51.11	50	20	0.01	0.371	0.379	2.22	
Atrazine	1	0		9.44	49.93	50	20	0.01	0.396	0.395	0.14	
Phenanthrene-d10	1	0	I	9.77	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.86	49.47	50	20	0.01	0.130	0.128	1.05	
n-Nitrosodiphenylamine	1	0		8.91	51.17	50	20	0.01	0.658	0.674	2.34	
2,4,6-Tribromophenol	1	0	S	9.04	44.03	50	**		0.090	0.079	11.94	
1,2-Diphenylhydrazine	1	0		8.95	54.07	50	**		0.811	0.877	8.15	
4-Bromophenyl-phenylether	1	0		9.29	48.32	50	20	0.1	0.205	0.198	3.36	
Hexachlorobenzene	1	0		9.36	47.47	50	20	0.1	0.216	0.205	5.06	
N-Octadecane	1	0		9.61	53.07	50	**	0.05	0.382	0.406	6.14	
Pentachlorophenol	1	0		9.56	34.75	50	20	0.05	0.123	0.085	30.49	C1
Phenanthrene	1	0		9.80	49.46	50	20	0.7	1.064	1.052	1.07	
Anthracene	1	0		9.85	49.69	50	20	0.7	1.083	1.076	0.61	
Carbazole	1	0		10.03	49.62	50	20	0.01	1.061	1.053	0.77	
Di-n-butylphthalate	1	0		10.40	51.69	50	20	0.01	1.323	1.368	3.37	
Fluoranthene	1	0		11.14	49.18	50	20	0.6	1.169	1.150	1.65	
Chrysene-d12	1	0	I	12.85	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.40	54.58	50	20	0.6	1.491	1.627	9.16	
Benzidine	1	0		11.29	42.09	50	**		0.834	0.702	15.81	
Terphenyl-d14	1	0	S	11.58	26.19	25	**		0.868	0.910	4.76	
4,4'-DDE	1	0		11.51	53.84		**		0.305			
4,4'-DDD	1	0		11.92	54.54		**		0.565			
Butylbenzylphthalate	1	0		12.17	56.24	50	20	0.01	0.733	0.824	12.48	
4,4'-DDT	1	0		12.28	54.45		**		0.419			
3,3'-Dichlorobenzidine	1	0		12.80	52.51	50	20	0.01	0.479	0.503	5.02	
Benzo[a]anthracene	1	0		12.83	50.48	50	20	0.8	1.317	1.329	0.96	
Chrysene	1	0		12.88	51.90	50	20	0.7	1.154	1.198	3.80	
bis(2-Ethylhexyl)phthalate	1	0		12.86	58.22	50	20	0.01	0.923	1.074	16.44	
Perylene-d12	1	0	I	14.52	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.63	56.72	50	20	0.01	1.714	1.945	13.45	
Benzo[b]fluoranthene	1	0		14.08	51.36	50	20	0.7	1.284	1.319	2.73	
Benzo[k]fluoranthene	1	0		14.12	50.61	50	20	0.7	1.181	1.196	1.23	
Benzo[a]pyrene	1	0		14.46	50.06	50	20	0.7	1.106	1.108	0.12	
Indeno[1,2,3-cd]pyrene	1	0		15.92	48.99	50	20	0.5	1.284	1.258	2.01	
Dibenzo[a,h]anthracene	1	0		15.95	49.63	50	20	0.4	1.066	1.058	0.74	
Benzo[g,h,i]perylene	1	0		16.34	48.70	50	20	0.5	1.058	1.031	2.59	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M129512.D **Instrument:** GCMS 7

Cont Calibration Date/Time 6/26/2023 8:22:00 A Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.672	0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.869	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129512.D Sam Mult : 1 Vial# : 2 Qt On : 06/26/23 08:43
Acq On : 06/26/23 08:22 Misc : A,BNA Qt Upd On: 06/19/23 13:33

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-26-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.617	96	53587	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.831	152	94603	40.00	ng	0.00
31) Naphthalene-d8	6.847	136	390195	40.00	ng	0.01
50) Acenaphthene-d10	8.292	164	230660	40.00	ng	0.02
77) Phenanthrene-d10	9.767	188	396735	40.00	ng	0.02
91) Chrysene-d12	12.852	240	281797	40.00	ng	0.03
103) Perylene-d12	14.521	264	269881	40.00	ng	0.03
System Monitoring Compounds						
11) 2-Fluorophenol	4.655	112	179468	55.40	ng	0.01
Spiked Amount 100.000			Recovery = 55.40%			
16) Phenol-d5	5.537	99	214050	55.93	ng	0.02
Spiked Amount 100.000			Recovery = 55.93%			
32) Nitrobenzene-d5	6.283	128	44475	24.66	ng	0.00
Spiked Amount 50.000			Recovery = 49.32%			
55) 2-Fluorobiphenyl	7.693	172	189768	25.22	ng	0.01
Spiked Amount 50.000			Recovery = 50.44%			
80) 2,4,6-Tribromophenol	9.045	330	39105	44.03	ng	0.02
Spiked Amount 100.000			Recovery = 44.03%			
94) Terphenyl-d14	11.583	244	160225	26.19	ng	0.02
Spiked Amount 50.000			Recovery = 52.38%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.652	88	67138	48.4682	ng	98
9) Pyridine	3.122	79	128140	49.4629	ng	73
10) N-Nitrosodimethylamine	3.075	74	106281	51.4979	ng	79
12) Benzaldehyde	5.460	77	141210	52.9312	ng	76
13) Aniline	5.554	93	256385	55.2745	ng	96
14) Pentachloroethane	5.596	117	65778	55.9296	ng	87
15) bis(2-Chloroethyl)ether	5.613	93	178197	55.7927	ng	80
17) Phenol	5.549	94	246070	56.4311	ng	81
18) 2-Chlorophenol	5.660	128	184016	56.0951	ng	82
19) N-Decane	5.690	57	171339	55.0908	ng	90
20) 1,3-Dichlorobenzene	5.784	146	181010	53.8217	ng	99
22) 1,4-Dichlorobenzene	5.848	146	181078	50.2304	ng	99
23) 1,2-Dichlorobenzene	5.972	146	173565	50.5173	ng	98
24) Benzyl alcohol	5.948	108	124792	51.2250	ng	78
25) bis(2-chloroisopropyl)...	6.054	45	203776	50.7438	ng	89
26) 2-Methylphenol	6.048	108	164408	50.4355	ng	98
27) Acetophenone	6.165	105	249114	52.6177	ng	73
28) Hexachloroethane	6.242	117	77197	52.1555	ng	82
29) N-Nitroso-di-n-propyla...	6.160	70	123497	52.6150	ng	80
30) 3&4-Methylphenol	6.171	108	165128	51.6565	ng	99
33) Nitrobenzene	6.301	77	193505	51.7241	ng	80
34) Isophorone	6.483	82	361211	50.4368	ng	92
35) 2-Nitrophenol	6.547	139	101892	50.2025	ng	92
36) 2,4-Dimethylphenol	6.583	107	185351	51.0879	ng	96
37) Benzoic Acid	6.671	105	120817	40.8521	ng	41
38) bis(2-Chloroethoxy)met...	6.647	93	214086	51.0722	ng	97
39) 2,4-Dichlorophenol	6.741	162	146494	50.0077	ng	90
40) 1,2,4-Trichlorobenzene	6.800	180	146443	48.6339	ng	98
41) Naphthalene	6.865	128	503598m	48.2610	ng	
42) 4-Chloroaniline	6.900	127	210206m	53.3467	ng	
43) Hexachlorobutadiene	6.947	225	74509	48.2349	ng	96
44) Caprolactam	7.200	113	66445	49.3303	ng	68
45) 4-Chloro-3-methylphenol	7.282	107	167649	51.4385	ng	85
46) 2-Methylnaphthalene	7.405	142	339302	50.1235	ng	99
47) 1-Methylnaphthalene	7.482	142	315534	49.8269	ng	91
48) Methylnaphthalenes (To...	7.405	142	656337m	100.0927	ng	
49) 1,1'-Biphenyl	7.781	154	413991	49.2420	ng	94
51) 1,2,4,5-Tetrachloroben...	7.540	216	142866	48.8012	ng	97
52) Hexachlorocyclopentadiene	7.523	237	9742	13.5658	ng	98
53) 2,4,6-Trichlorophenol	7.634	196	100926	46.7483	ng	100
54) 2,4,5-Trichlorophenol	7.670	196	109440	48.2744	ng	96
56) 2-Chloronaphthalene	7.805	162	324824	50.4095	ng	95
57) 1,4-Dimethylnaphthalene	8.093	156	248631	49.6384	ng	89
58) Dimethylnaphthalenes (...	8.093	156	248631	49.6384	ng	89
59) Diphenyl Ether	7.864	170	232523	49.8820	ng	81
60) 2-Nitroaniline	7.887	65	129308	53.7982	ng	66
61) Coumarin	8.081	146	134672	50.9221	ng	63
62) Acenaphthylene	8.169	152	453391	49.8208	ng	99
63) Dimethylphthalate	8.034	163	379361	50.1432	ng	98
64) 2,6-Dinitrotoluene	8.093	165	83572	50.5515	ng	73
65) Acenaphthene	8.322	153	307655	49.6822	ng	97

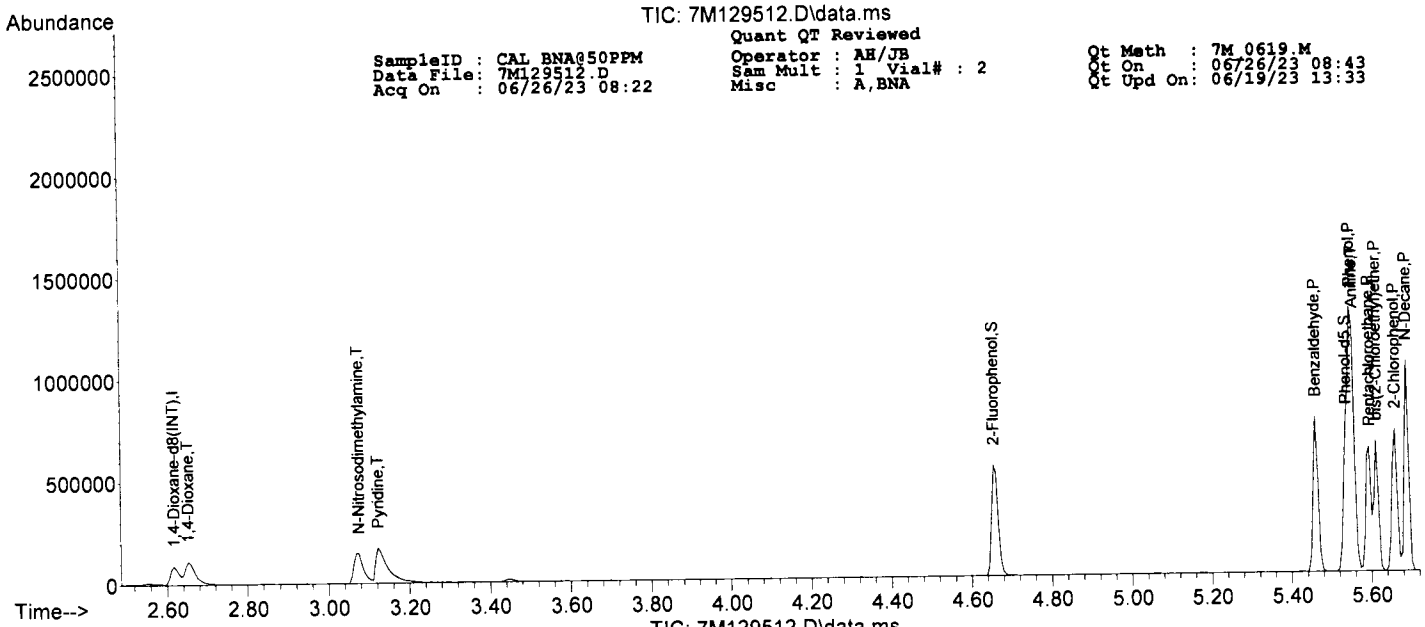
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129512.D Sam Mult : 1 Vial# : 2 Qt On : 06/26/23 08:43
Acq On : 06/26/23 08:22 Misc : A,BNA Qt Upd On: 06/19/23 13:33

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-26-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.251	138	102249	52.4834	ng	77
67)	2,4-Dinitrophenol	8.345	184	44768	48.5391	ng	50
68)	Dibenzofuran	8.480	168	459532	49.4435	ng	87
69)	2,4-Dinitrotoluene	8.463	165	124122	51.6466	ng	64
70)	4-Nitrophenol	8.398	65	61777	41.6160	ng	83
71)	2,3,4,6-Tetrachlorophenol	8.592	232	83796	48.1162	ng	87
72)	Fluorene	8.804	166	375371	50.6227	ng	99
73)	4-Chlorophenyl-phenyle...	8.792	204	176308	49.9466	ng	85
74)	Diethylphthalate	8.668	149	381331	51.4980	ng	97
75)	4-Nitroaniline	8.827	138	109215	51.1108	ng	79
76)	Atrazine	9.444	200	113938	49.9302	ng	98
78)	4,6-Dinitro-2-methylph...	8.857	198	63710	49.4732	ng	60
79)	n-Nitrosodiphenylamine	8.909	169	334113	51.1698	ng	99
81)	1,2-Diphenylhydrazine	8.951	77	434732	54.0730	ng	84
82)	4-Bromophenyl-phenylether	9.285	248	98095	48.3213	ng	84
83)	Hexachlorobenzene	9.356	284	101570	47.4725	ng	69
84)	N-Octadecane	9.614	57	201288	53.0706	ng	74
85)	Pentachlorophenol	9.562	266	42270	34.7541	ng	98
86)	Phenanthrene	9.797	178	521799	49.4640	ng	99
87)	Anthracene	9.849	178	533747	49.6927	ng	99
88)	Carbazole	10.026	167	522318	49.6162	ng	96
89)	Di-n-butylphthalate	10.396	149	678310	51.6855	ng	97
90)	Fluoranthene	11.136	202	570334	49.1767	ng	93
92)	Pyrene	11.401	202	573270	54.5803	ng	90
93)	Benzidine	11.289	184	247295	42.0927	ng	88
95)	4,4'-DDE	11.512	246	115716	53.8444	ng	94
96)	4,4'-DDD	11.918	235	217189	54.5360	ng	91
97)	Butylbenzylphthalate	12.170	149	290239	56.2401	ng	76
98)	4,4'-DDT	12.276	235	160684	54.4477	ng	93
99)	3,3'-Dichlorobenzidine	12.805	252	177053	52.5116	ng	97
100)	Benzo[a]anthracene	12.834	228	468214	50.4814	ng	99
101)	Chrysene	12.881	228	421821m	51.8982	ng	
102)	bis(2-Ethylhexyl)phtha...	12.864	149	378402	58.2183	ng	94
104)	Di-n-octylphthalate	13.627	149	655991	56.7242	ng	100
105)	Benzo[b]fluoranthene	14.080	252	444866	51.3632	ng	96
106)	Benzo[k]fluoranthene	14.115	252	403445	50.6146	ng	94
107)	Benzo[a]pyrene	14.456	252	373657	50.0620	ng	93
108)	Indeno[1,2,3-cd]pyrene	15.925	276	424291	48.9933	ng	89
109)	Dibenzo[a,h]anthracene	15.948	278	357054	49.6307	ng	89
110)	Benzo[g,h,i]perylene	16.336	276	347712	48.7026	ng	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed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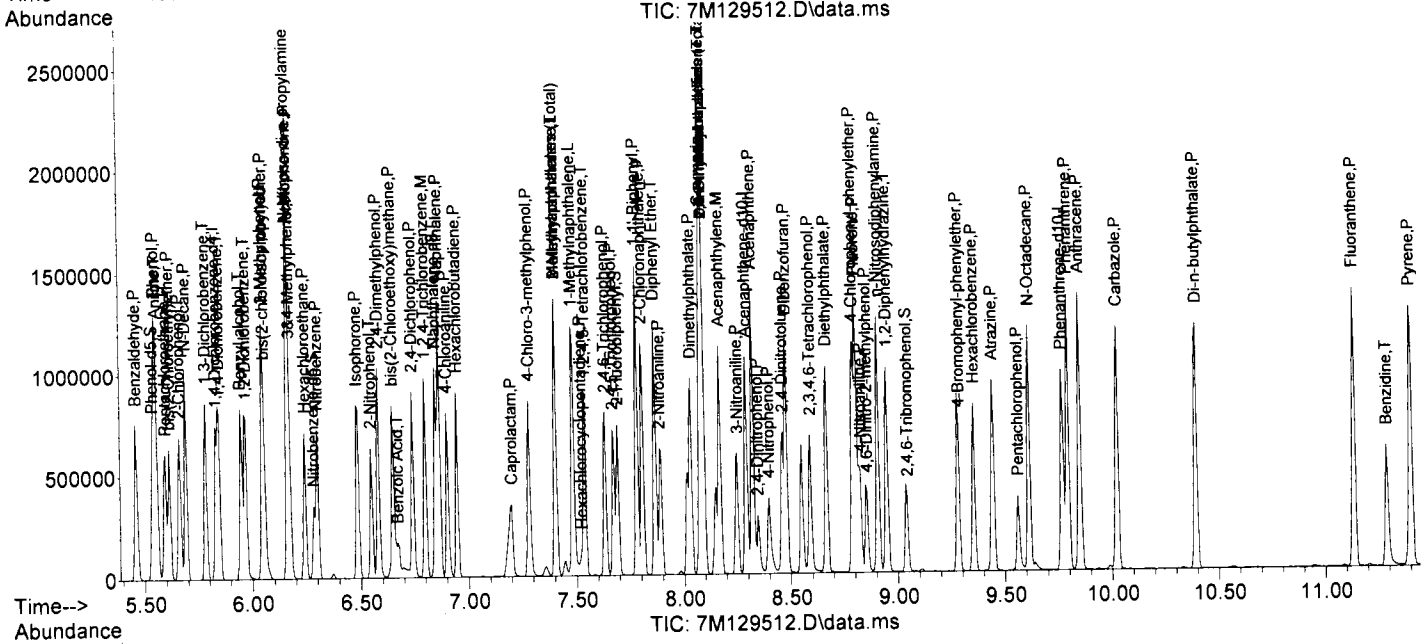
Quant QT Reviewed
SampleID : CAL BNA@50PPM
Data File: 7M129512.D
Acq On : 06/26/23 08:22
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 7M_0619.M
Qt On : 06/26/23 08:43
Qt Upd On: 06/19/23 13:33
Abundance
Time-->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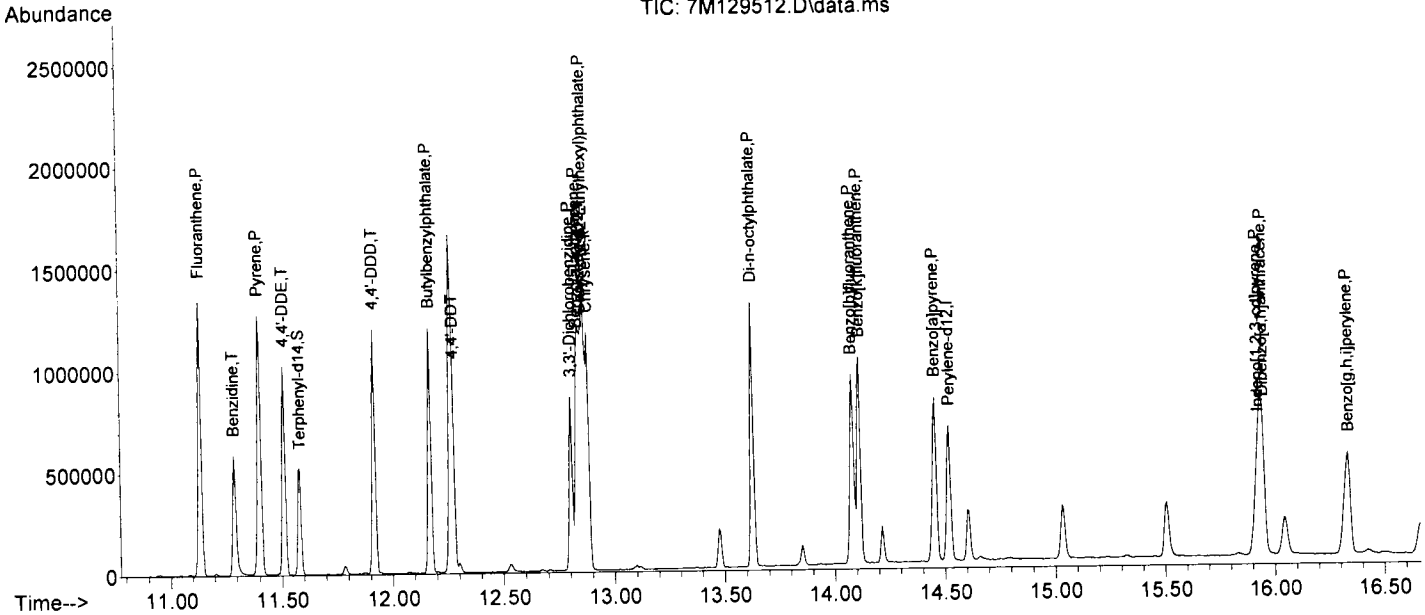
Abundance
Time-->


TIC: 7M129512.D\data.ms
Abundance
Time-->

GC/MS Base Neutral/Acid Extractable Data
Raw QC Data

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 7
Data File: 7M129283.D
Analysis Date: 06/19/23 08:46
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.031 to 10.037 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	41.6	47976	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	46.4	53544	PASS
70	69	0.00	2	0.7	385	PASS
127	198	40	60	56.0	64604	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	115428	PASS
199	198	5	9	6.8	7905	PASS
275	198	10	30	21.9	25328	PASS
365	198	1	100	2.7	3097	PASS
441	443	0.01	100	72.8	11050	PASS
442	198	40	100	65.4	75472	PASS
443	442	17	23	20.1	15179	PASS

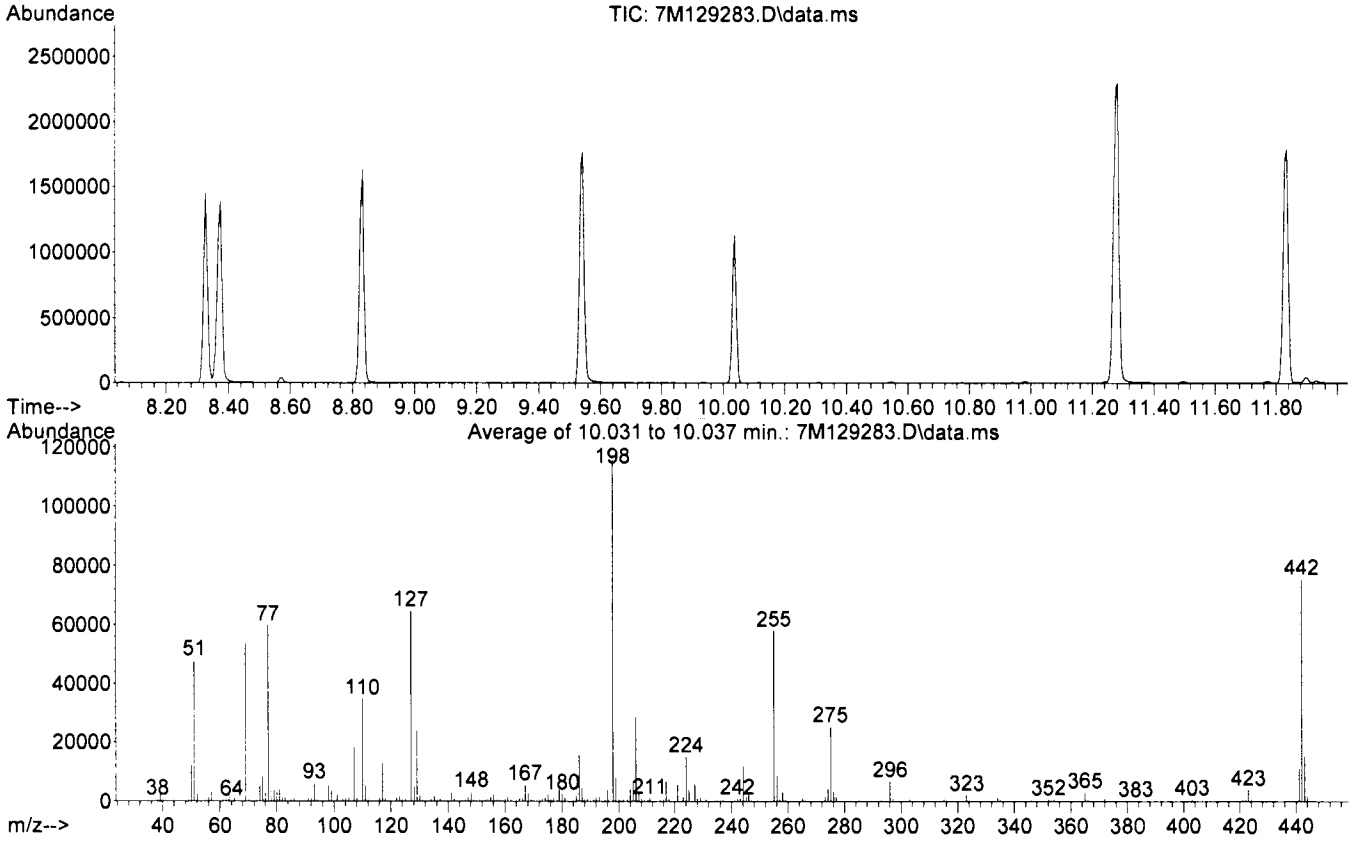
Data File	Sample Number	Analysis Date:
7M129284.D	CAL BNA@2PPM	06/19/23 09:10
7M129285.D	CAL BNA@196PP	06/19/23 09:36
7M129286.D	CAL BNA@160PP	06/19/23 10:00
7M129287.D	CAL BNA@120PP	06/19/23 10:23
7M129288.D	CAL BNA@80PPM	06/19/23 10:47
7M129289.D	CAL BNA@20PPM	06/19/23 11:10
7M129290.D	CAL BNA@10PPM	06/19/23 11:34
7M129291.D	CAL BNA@0.5PP	06/19/23 11:57
7M129292.D	CAL BNA@50PPM	06/19/23 12:21
7M129293.D	CAL BNA@80PPM	06/19/23 13:08
7M129294.D	ICV BNA@50PPM	06/19/23 13:32

DFTPP

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-19-23\
Data File : 7M129283.D
Acq On : 19 Jun 2023 8:46
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2023\GCMS_7\METHODQT\7M_0511.M
Title : @GCMS_7,mg,625,8270
Last Update : Thu May 11 14:52:23 2023



Spectrum Information: Average of 10.031 to 10.037 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.6	47976	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	46.4	53544	PASS
70	69	0.00	2	0.7	385	PASS
127	198	40	60	56.0	64604	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	115428	PASS
199	198	5	9	6.8	7905	PASS
275	198	10	30	21.9	25328	PASS
365	198	1	100	2.7	3097	PASS
441	443	0.01	100	72.8	11050	PASS
442	198	40	100	65.4	75472	PASS
443	442	17	23	20.1	15179	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 10
Data File: 10M97589.D
Analysis Date: 06/19/23 09:04
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.023 to 10.028 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	47.3	49116	PASS
68	69	0.00	2	1.8	851	PASS
69	198	0.00	100	46.0	47756	PASS
70	69	0.00	2	0.6	307	PASS
127	198	40	60	55.9	58060	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	103880	PASS
199	198	5	9	6.8	7103	PASS
275	198	10	30	21.2	22013	PASS
365	198	1	100	2.2	2263	PASS
441	443	0.01	100	69.8	7510	PASS
442	198	40	100	49.6	51572	PASS
443	442	17	23	20.9	10759	PASS

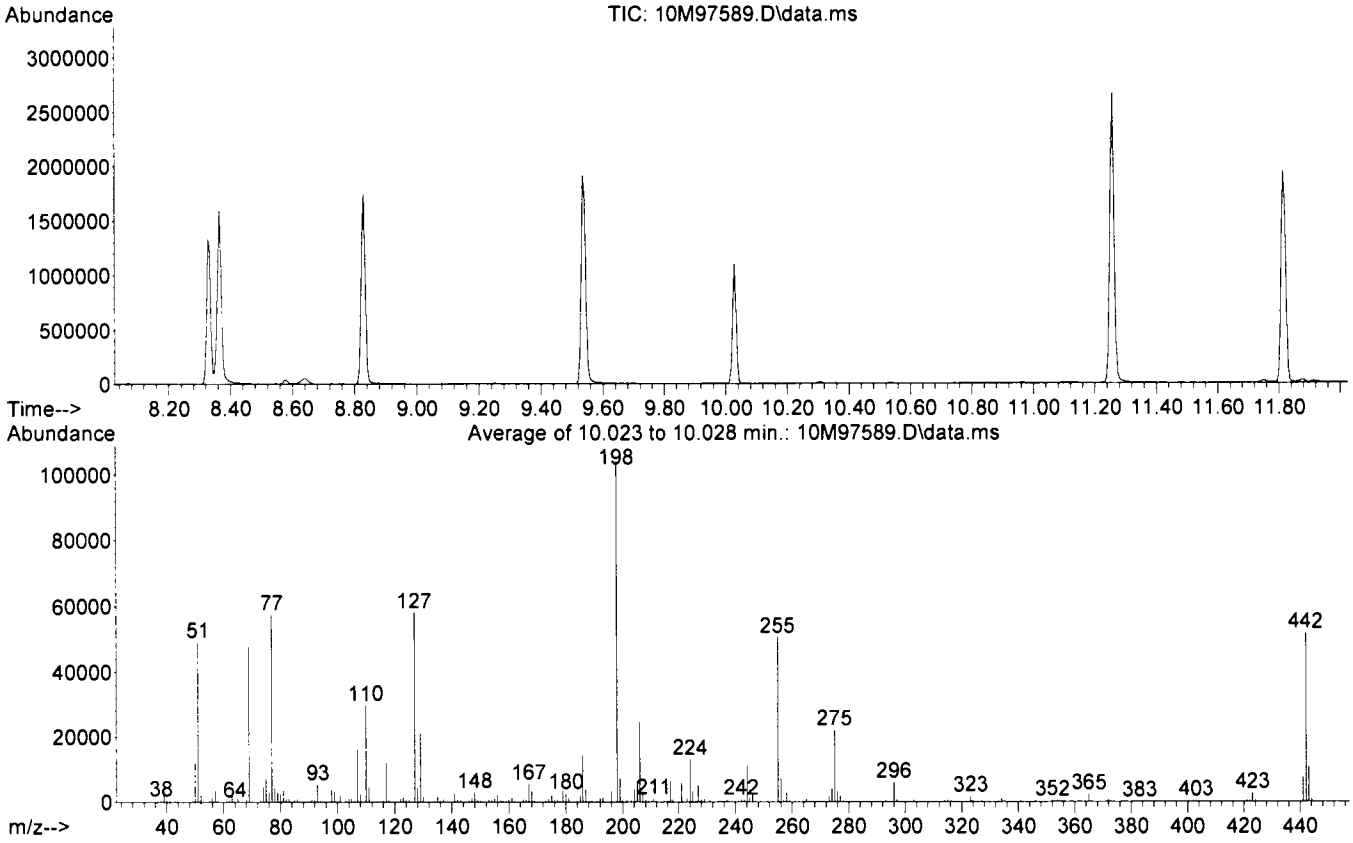
Data File	Sample Number	Analysis Date:
10M97590.D	CAL BNA@2PPM	06/19/23 09:27
10M97591.D	CAL BNA@10PPM	06/19/23 09:53
10M97592.D	CAL BNA@196PP	06/19/23 10:15
10M97593.D	CAL BNA@160PP	06/19/23 10:38
10M97594.D	CAL BNA@120PP	06/19/23 11:00
10M97595.D	CAL BNA@80PPM	06/19/23 11:23
10M97596.D	CAL BNA@20PPM	06/19/23 11:45
10M97597.D	CAL BNA@0.5PP	06/19/23 12:11
10M97598.D	CAL BNA@50PPM	06/19/23 12:41
10M97599.D	BNA@80PPM	06/19/23 13:04
10M97600.D	ICV BNA@50PPM	06/19/23 13:27
10M97601.D	108832	06/19/23 13:52
10M97602.D	WMB108832	06/19/23 14:14
10M97603.D	WMB108832(MS)	06/19/23 15:00
10M97604.D	AD38529-003(T)	06/19/23 15:23
10M97605.D	AD38529-001(T)	06/19/23 15:46
10M97606.D	AD38529-001(T)(M	06/19/23 16:09
10M97607.D	AD38529-001(T)(M	06/19/23 16:32
10M97608.D	AD38647-001	06/19/23 16:54
10M97609.D	EF1 V-397210(6/14	06/19/23 17:17
10M97610.D	AD38543-001	06/19/23 17:49
10M97611.D	AD38543-002	06/19/23 18:11
10M97612.D	AD38543-003	06/19/23 18:34
10M97613.D	AD38543-004	06/19/23 18:56
10M97614.D	AD38543-005	06/19/23 19:19
10M97615.D	AD38543-006	06/19/23 19:42
10M97616.D	AD38543-010	06/19/23 20:04
10M97617.D	AD38543-007	06/19/23 20:27
10M97618.D	AD38543-008	06/19/23 20:49
10M97619.D	AD38543-009	06/19/23 21:12

DFTPP

Data Path : G:\GcMsData\2023\GCMS_10\Data\06-19-23\
Data File : 10M97589.D
Acq On : 19 Jun 2023 9:04
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2023\GCMS_10\METHODQT\10M_0511.M
Title : @GCMS_10,mg,625,8270
Last Update : Thu May 11 14:09:01 2023



Spectrum Information: Average of 10.023 to 10.028 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.3	49116	PASS
68	69	0.00	2	1.8	851	PASS
69	198	0.00	100	46.0	47756	PASS
70	69	0.00	2	0.6	307	PASS
127	198	40	60	55.9	58060	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	103880	PASS
199	198	5	9	6.8	7103	PASS
275	198	10	30	21.2	22013	PASS
365	198	1	100	2.2	2263	PASS
441	443	0.01	100	69.8	7510	PASS
442	198	40	100	49.6	51572	PASS
443	442	17	23	20.9	10759	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 10
Data File: 10M97620.D
Analysis Date: 06/20/23 08:41
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.023 to 10.028 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	44.3	48348	PASS
68	69	0.00	2	1.8	842	PASS
69	198	0.00	100	44.0	48028	PASS
70	69	0.00	2	0.6	270	PASS
127	198	40	60	55.0	60008	PASS
197	198	0.00	1	0.3	377	PASS
198	198	100	100	100.0	109132	PASS
199	198	5	9	6.8	7403	PASS
275	198	10	30	20.8	22708	PASS
365	198	1	100	2.0	2137	PASS
441	443	0.01	100	70.4	8249	PASS
442	198	40	100	52.8	57676	PASS
443	442	17	23	20.3	11720	PASS

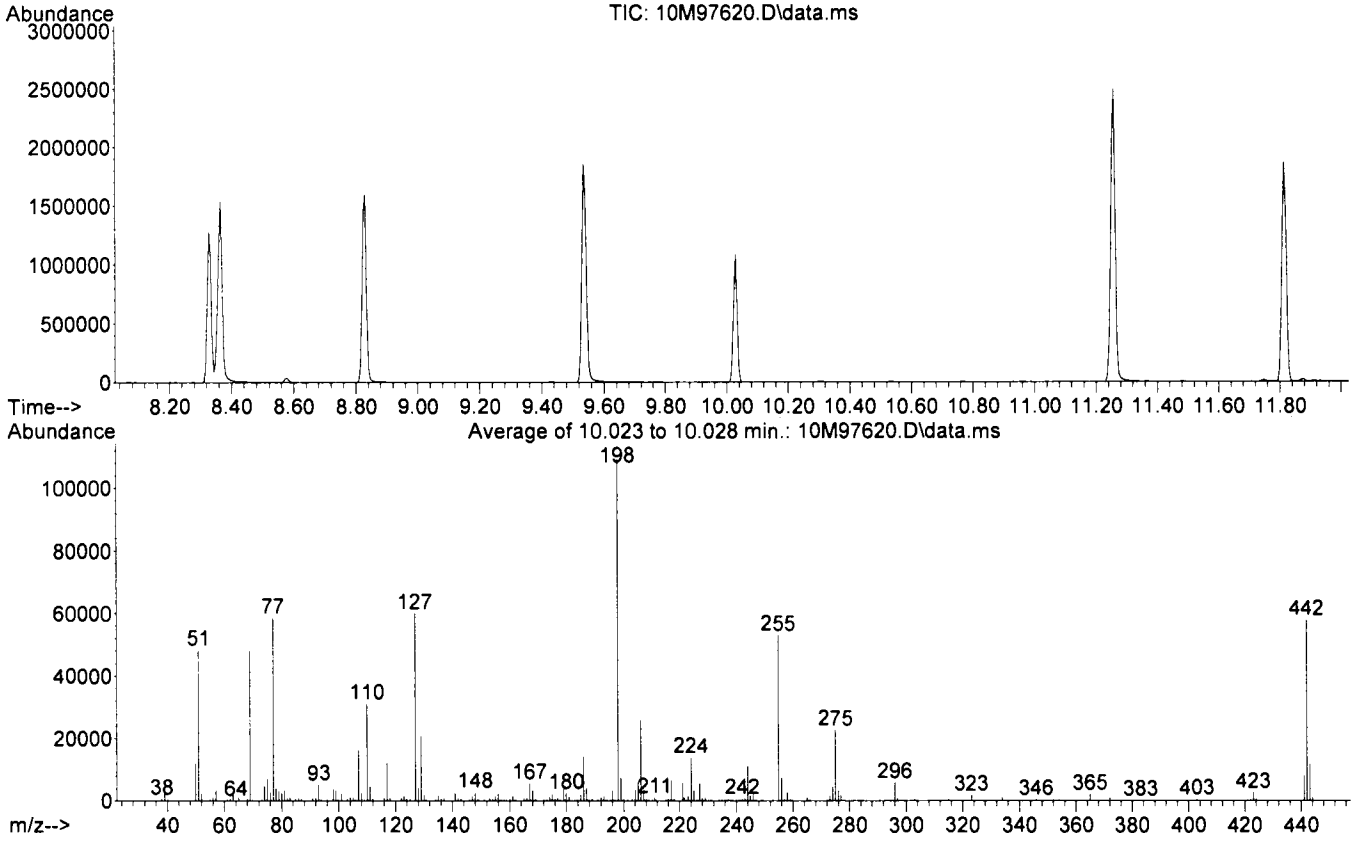
Data File	Sample Number	Analysis Date:
10M97621.D	CAL BNA@50PPM	06/20/23 09:04
10M97622.D	WMB108840(MS)	06/20/23 09:27
10M97623.D	WMB108840	06/20/23 09:50
10M97624.D	AD38541-012	06/20/23 10:13
10M97625.D	AD38541-001	06/20/23 10:35
10M97626.D	AD38541-002	06/20/23 10:58
10M97627.D	AD38541-003	06/20/23 11:21
10M97628.D	AD38541-004	06/20/23 11:43
10M97629.D	AD38541-005	06/20/23 12:06
10M97630.D	AD38541-006	06/20/23 12:29
10M97631.D	AD38541-007	06/20/23 12:52
10M97632.D	AD38541-008	06/20/23 13:14
10M97633.D	AD38541-009	06/20/23 13:37
10M97634.D	AD38541-010	06/20/23 13:59
10M97635.D	AD38541-011	06/20/23 14:22
10M97636.D	OMB108853(MS)	06/20/23 14:45
10M97637.D	SMB108849(MS)	06/20/23 15:07

DFTPP

Data Path : G:\GcMsData\2023\GCMS_10\Data\06-20-23\
Data File : 10M97620.D
Acq On : 20 Jun 2023 8:41
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2023\GCMS_10\METHODQT\10M_0619.M
Title : @GCMS_10,mg,625,8270
Last Update : Mon Jun 19 13:10:03 2023



Spectrum Information: Average of 10.023 to 10.028 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	44.3	48348	PASS
68	69	0.00	2	1.8	842	PASS
69	198	0.00	100	44.0	48028	PASS
70	69	0.00	2	0.6	270	PASS
127	198	40	60	55.0	60008	PASS
197	198	0.00	1	0.3	377	PASS
198	198	100	100	100.0	109132	PASS
199	198	5	9	6.8	7403	PASS
275	198	10	30	20.8	22708	PASS
365	198	1	100	2.0	2137	PASS
441	443	0.01	100	70.4	8249	PASS
442	198	40	100	52.8	57676	PASS
443	442	17	23	20.3	11720	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 10
Data File: 10M97638.D
Analysis Date: 06/20/23 15:30
Method: EPA 8270E

Tune Scan/Time Range: Scan 1410

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	41.3	65504	PASS
68	69	0.00	2	1.9	1186	PASS
69	198	0.00	100	40.0	63504	PASS
70	69	0.00	2	0.4	280	PASS
127	198	40	60	53.2	84440	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	158592	PASS
199	198	5	9	7.1	11237	PASS
275	198	10	30	22.2	35168	PASS
365	198	1	100	2.5	3989	PASS
441	443	0.01	100	69.1	13266	PASS
442	198	40	100	59.3	94064	PASS
443	442	17	23	20.4	19200	PASS

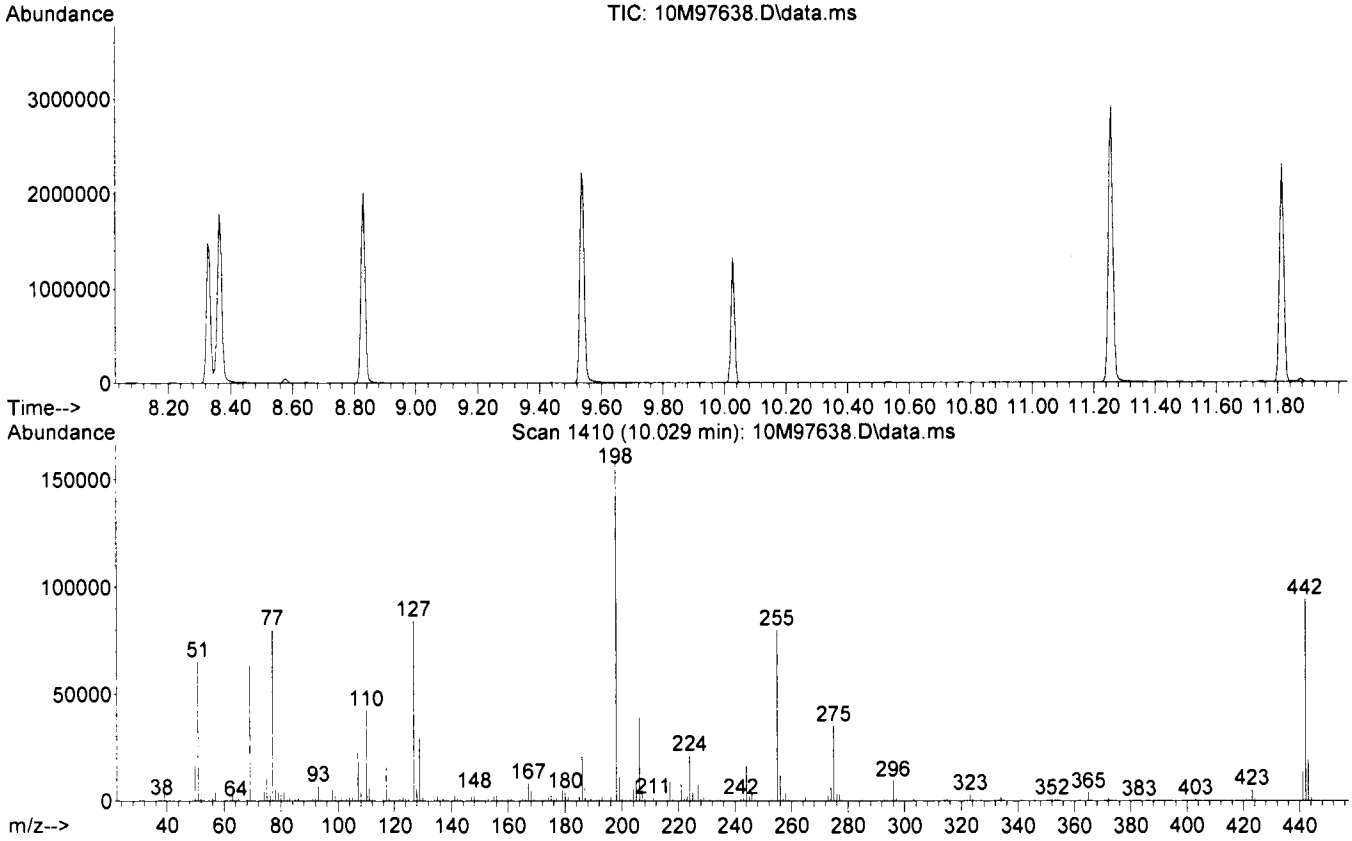
Data File	Sample Number	Analysis Date:
10M97639.D	CAL BNA@50PPM	06/20/23 15:53
10M97640.D	SMB108852(MS)	06/20/23 16:20
10M97641.D	AD38586-005	06/20/23 16:42
10M97642.D	AD38586-006	06/20/23 17:05
10M97643.D	AD38527-001	06/20/23 17:27
10M97644.D	AD38527-001(MS)	06/20/23 17:49
10M97645.D	AD38527-001(MSD	06/20/23 18:12
10M97646.D	AD38527-006	06/20/23 18:34
10M97647.D	AD38543-009	06/20/23 18:57
10M97648.D	AD38576-001	06/20/23 19:19
10M97649.D	AD38576-002	06/20/23 19:42
10M97650.D	AD38545-001	06/20/23 20:04
10M97651.D	AD38637-031	06/20/23 20:27

DFTPP

Data Path : G:\GcMsData\2023\GCMS_10\Data\06-2023\
Data File : 10M97638.D
Acq On : 20 Jun 2023 15:30
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2023\GCMS_10\METHODQT\10M_0619.M
Title : @GCMS_10,mg,625,8270
Last Update : Mon Jun 19 13:10:03 2023



Spectrum Information: Scan 1410

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.3	65504	PASS
68	69	0.00	2	1.9	1186	PASS
69	198	0.00	100	40.0	63504	PASS
70	69	0.00	2	0.4	280	PASS
127	198	40	60	53.2	84440	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	158592	PASS
199	198	5	9	7.1	11237	PASS
275	198	10	30	22.2	35168	PASS
365	198	1	100	2.5	3989	PASS
441	443	0.01	100	69.1	13266	PASS
442	198	40	100	59.3	94064	PASS
443	442	17	23	20.4	19200	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 9M122387.D
Instrument: GCMS 9 **Analysis Date:** 06/21/23 11:22
Method: EPA 8270E

Tune Scan/Time Range: Average of 9.989 to 10.001 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	45.3	17656	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	41.2	16030	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	47.9	18652	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	38941	PASS
199	198	5	9	6.8	2646	PASS
275	198	10	30	25.6	9962	PASS
365	198	1	100	3.3	1290	PASS
441	443	0.01	100	81.7	4698	PASS
442	198	40	100	78.8	30669	PASS
443	442	17	23	18.8	5751	PASS

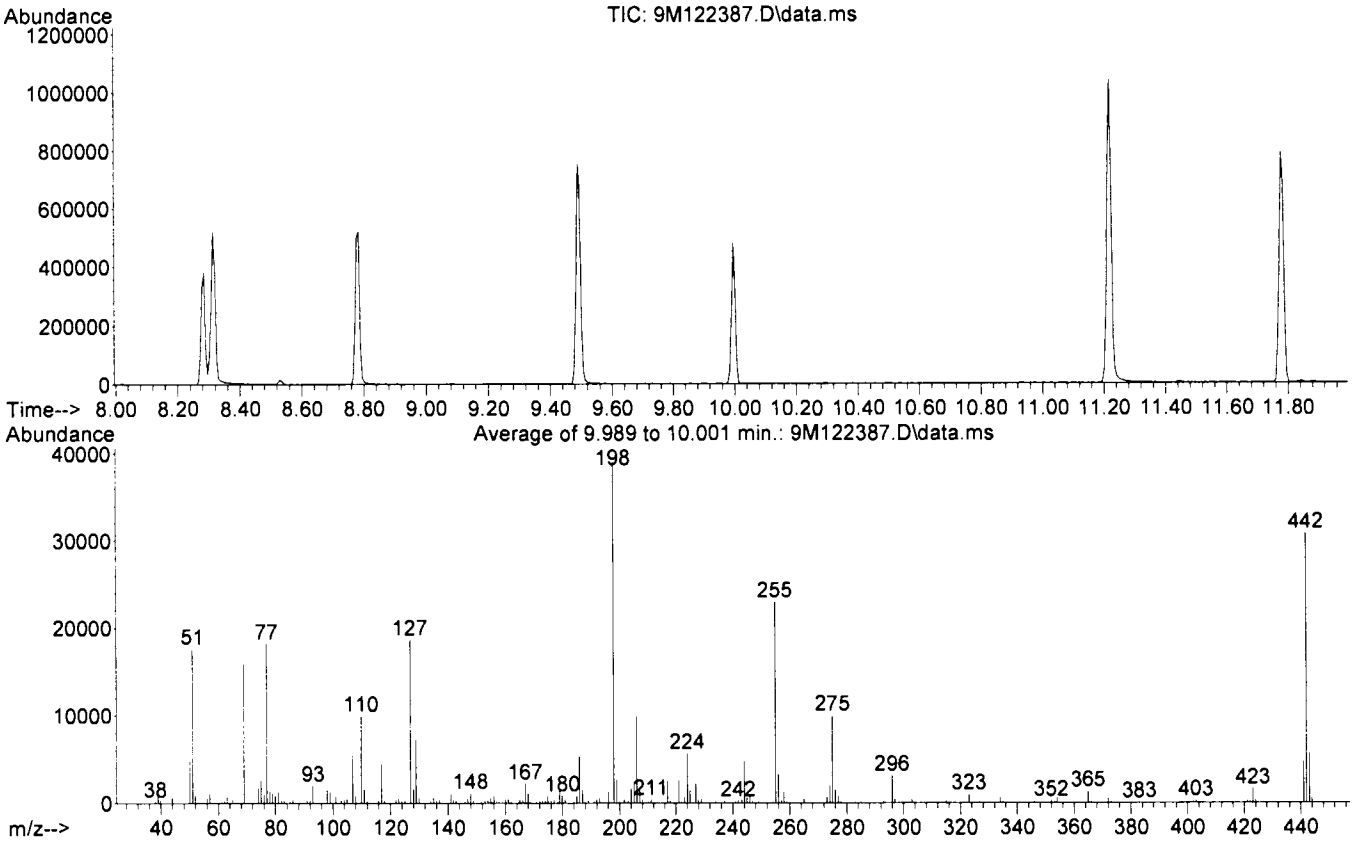
Data File	Sample Number	Analysis Date:
9M122388.D	CAL BNA@10PPM	06/21/23 11:44
9M122389.D	CAL BNA@2PPM	06/21/23 12:06
9M122390.D	CAL BNA@196PP	06/21/23 12:29
9M122391.D	CAL BNA@160PP	06/21/23 12:51
9M122392.D	CAL BNA@120PP	06/21/23 13:14
9M122393.D	CAL BNA@80PPM	06/21/23 13:36
9M122394.D	CAL BNA@20PPM	06/21/23 13:59
9M122395.D	CAL BNA@0.5PP	06/21/23 14:21
9M122396.D	CAL BNA@50PPM	06/21/23 14:44
9M122397.D	ICV BNA@50PPM	06/21/23 15:07

DFTPP

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-21-23\
Data File : 9M122387.D
Acq On : 21 Jun 2023 11:22
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2023\GCMS_9\METHODQT\9M_0621.M
Title : @GCMS_9,mg,625,8270
Last Update : Wed Jun 21 15:11:51 2023



Spectrum Information: Average of 9.989 to 10.001 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	45.3	17656	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	41.2	16030	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	47.9	18652	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	38941	PASS
199	198	5	9	6.8	2646	PASS
275	198	10	30	25.6	9962	PASS
365	198	1	100	3.3	1290	PASS
441	443	0.01	100	81.7	4698	PASS
442	198	40	100	78.8	30669	PASS
443	442	17	23	18.8	5751	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 5
Data File: 5M124255.D
Analysis Date: 06/21/23 11:53
Method: EPA 8270E

Tune Scan/Time Range: Scan 1414

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	34.5	28968	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.9	33440	PASS
70	69	0.00	2	0.5	168	PASS
127	198	40	60	48.3	40536	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	83904	PASS
199	198	5	9	7.1	5926	PASS
275	198	10	30	22.4	18760	PASS
365	198	1	100	2.2	1844	PASS
441	443	0.01	100	76.2	7695	PASS
442	198	40	100	60.7	50920	PASS
443	442	17	23	19.8	10097	PASS

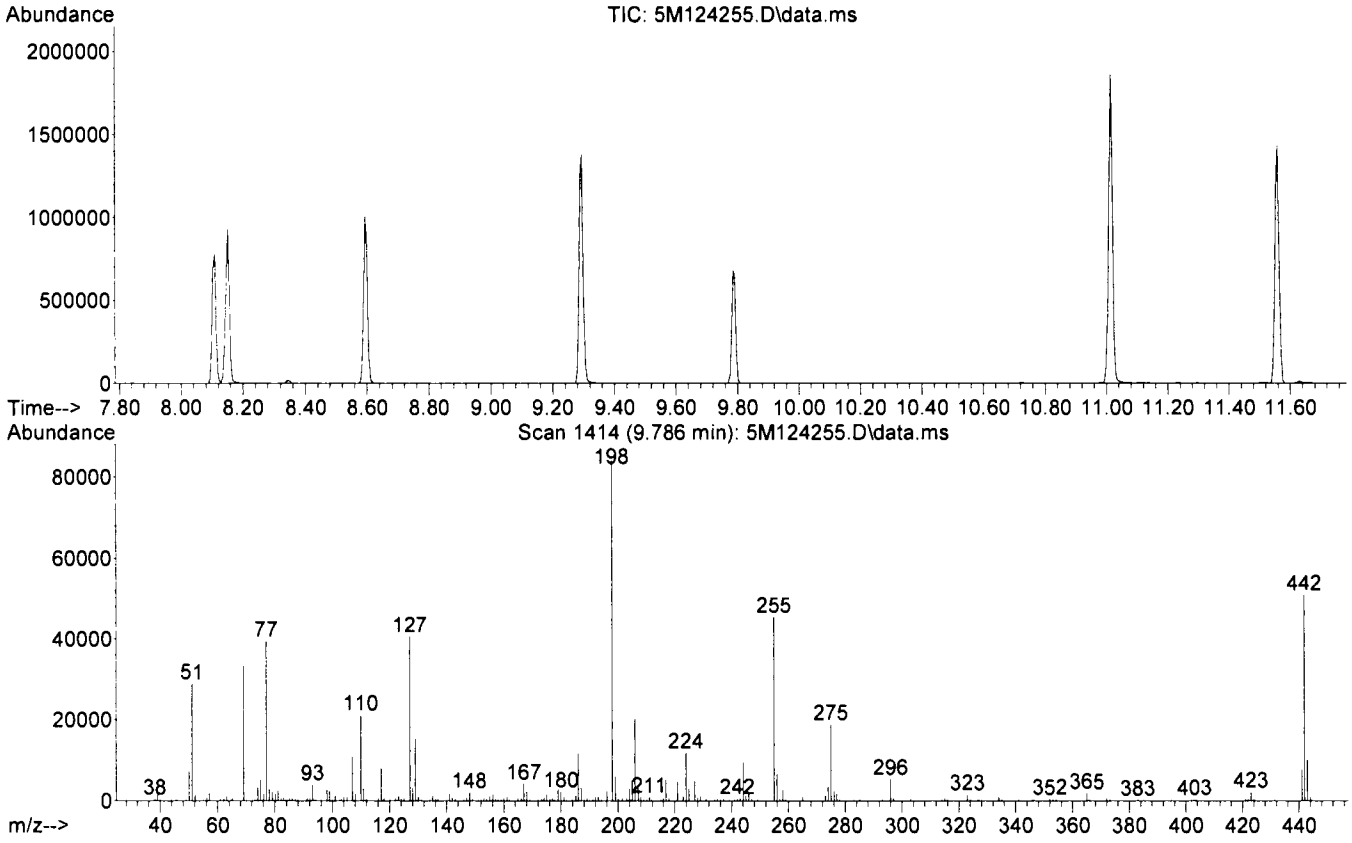
Data File	Sample Number	Analysis Date:
5M124256.D	CAL BNA@2PPM	06/21/23 12:17
5M124257.D	CAL BNA@10PPM	06/21/23 12:41
5M124258.D	CAL BNA@196PP	06/21/23 13:04
5M124259.D	CAL BNA@160PP	06/21/23 13:28
5M124260.D	CAL BNA@120PP	06/21/23 13:52
5M124261.D	CAL BNA@80PPM	06/21/23 14:16
5M124262.D	CAL BNA@20PPM	06/21/23 14:39
5M124263.D	CAL BNA@0.5PP	06/21/23 15:03
5M124264.D	CAL BNA@50PPM	06/21/23 15:27
5M124265.D	ICV BNA@50PPM	06/21/23 15:55

DFTPP

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Data File : 5M124255.D
Acq On : 21 Jun 2023 11:53
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2023\GCMS_5\METHODQT\5M_0619.M
Title : @GCMS_5,mg,625,8270
Last Update : Mon Jun 19 15:30:03 2023



Spectrum Information: Scan 1414

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	34.5	28968	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.9	33440	PASS
70	69	0.00	2	0.5	168	PASS
127	198	40	60	48.3	40536	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	83904	PASS
199	198	5	9	7.1	5926	PASS
275	198	10	30	22.4	18760	PASS
365	198	1	100	2.2	1844	PASS
441	443	0.01	100	76.2	7695	PASS
442	198	40	100	60.7	50920	PASS
443	442	17	23	19.8	10097	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 5
Data File: 5M124271.D
Analysis Date: 06/23/23 08:43
Method: EPA 8270E

Tune Scan/Time Range: Scan 1415

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	30.5	32712	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	34.3	36856	PASS
70	69	0.00	2	0.5	202	PASS
127	198	40	60	45.4	48760	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	107408	PASS
199	198	5	9	7.1	7575	PASS
275	198	10	30	22.8	24464	PASS
365	198	1	100	2.7	2932	PASS
441	443	0.01	100	73.6	10857	PASS
442	198	40	100	72.9	78304	PASS
443	442	17	23	18.8	14746	PASS

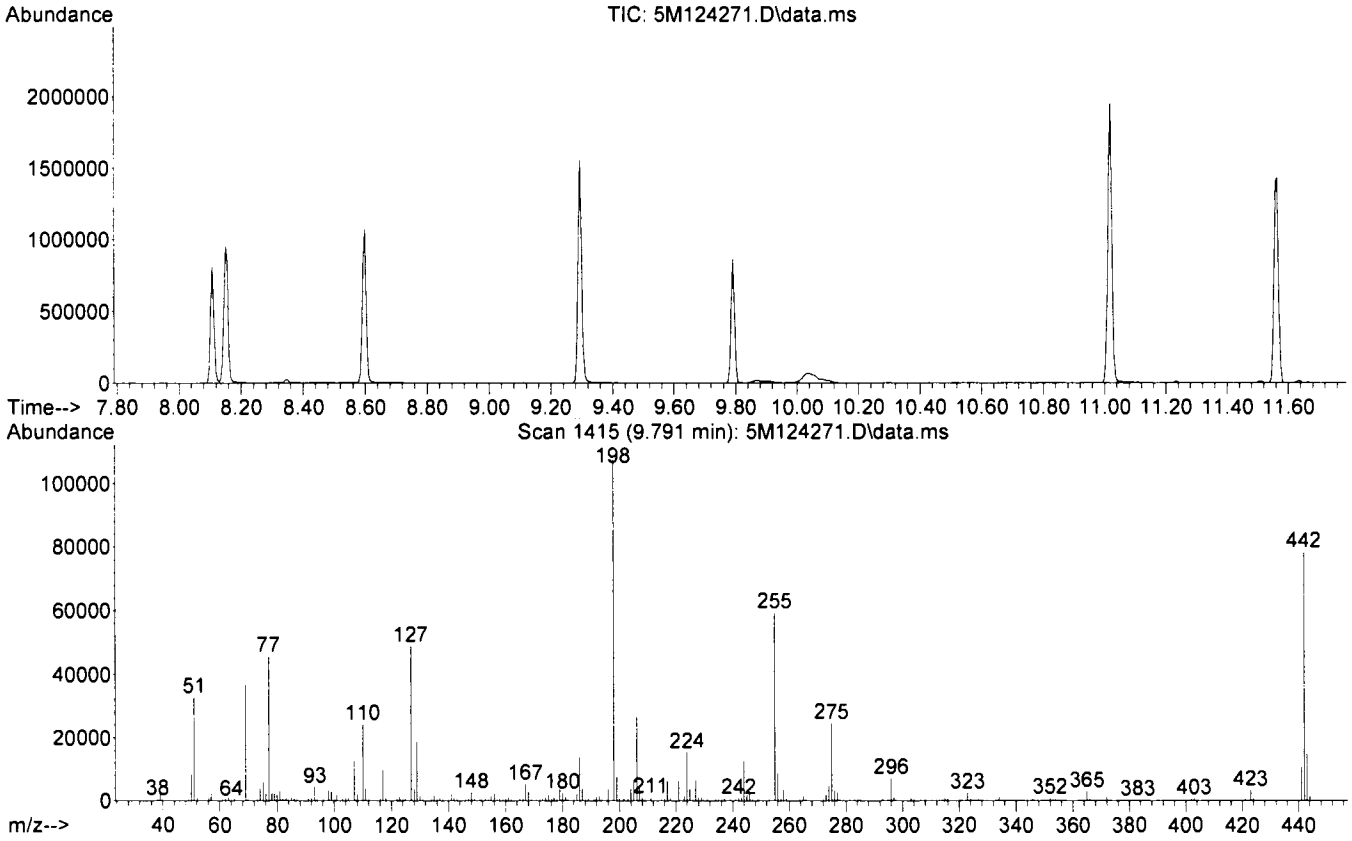
Data File	Sample Number	Analysis Date:
5M124272.D	CAL BNA@50PPM	06/23/23 09:06
5M124273.D	WMB108886	06/23/23 09:29
5M124274.D	MDL-1 (AQ)	06/23/23 09:53
5M124275.D	SMB108928(MS)	06/23/23 12:36
5M124276.D	SMB108928	06/23/23 13:00
5M124277.D	SMB108929(MS)	06/23/23 14:08
5M124278.D	SMB108929	06/23/23 14:31

DFTPP

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-23-23\
Data File : 5M124271.D
Acq On : 23 Jun 2023 8:43
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2023\GCMS_5\METHODQT\5M_0619.M
Title : @GCMS_5,mg,625,8270
Last Update : Mon Jun 19 15:30:03 2023



Spectrum Information: Scan 1415

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	30.5	32712	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	34.3	36856	PASS
70	69	0.00	2	0.5	202	PASS
127	198	40	60	45.4	48760	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	107408	PASS
199	198	5	9	7.1	7575	PASS
275	198	10	30	22.8	24464	PASS
365	198	1	100	2.7	2932	PASS
441	443	0.01	100	73.6	10857	PASS
442	198	40	100	72.9	78304	PASS
443	442	17	23	18.8	14746	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 7
Data File: 7M129478.D
Analysis Date: 06/23/23 17:25
Method: EPA 8270E

Tune Scan/Time Range: Scan 1285

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	37.7	37472	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.4	42120	PASS
70	69	0.00	2	0.7	299	PASS
127	198	40	60	52.8	52496	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	99376	PASS
199	198	5	9	6.9	6882	PASS
275	198	10	30	23.4	23264	PASS
365	198	1	100	2.6	2615	PASS
441	443	0.01	100	80.2	10636	PASS
442	198	40	100	70.6	70112	PASS
443	442	17	23	18.9	13257	PASS

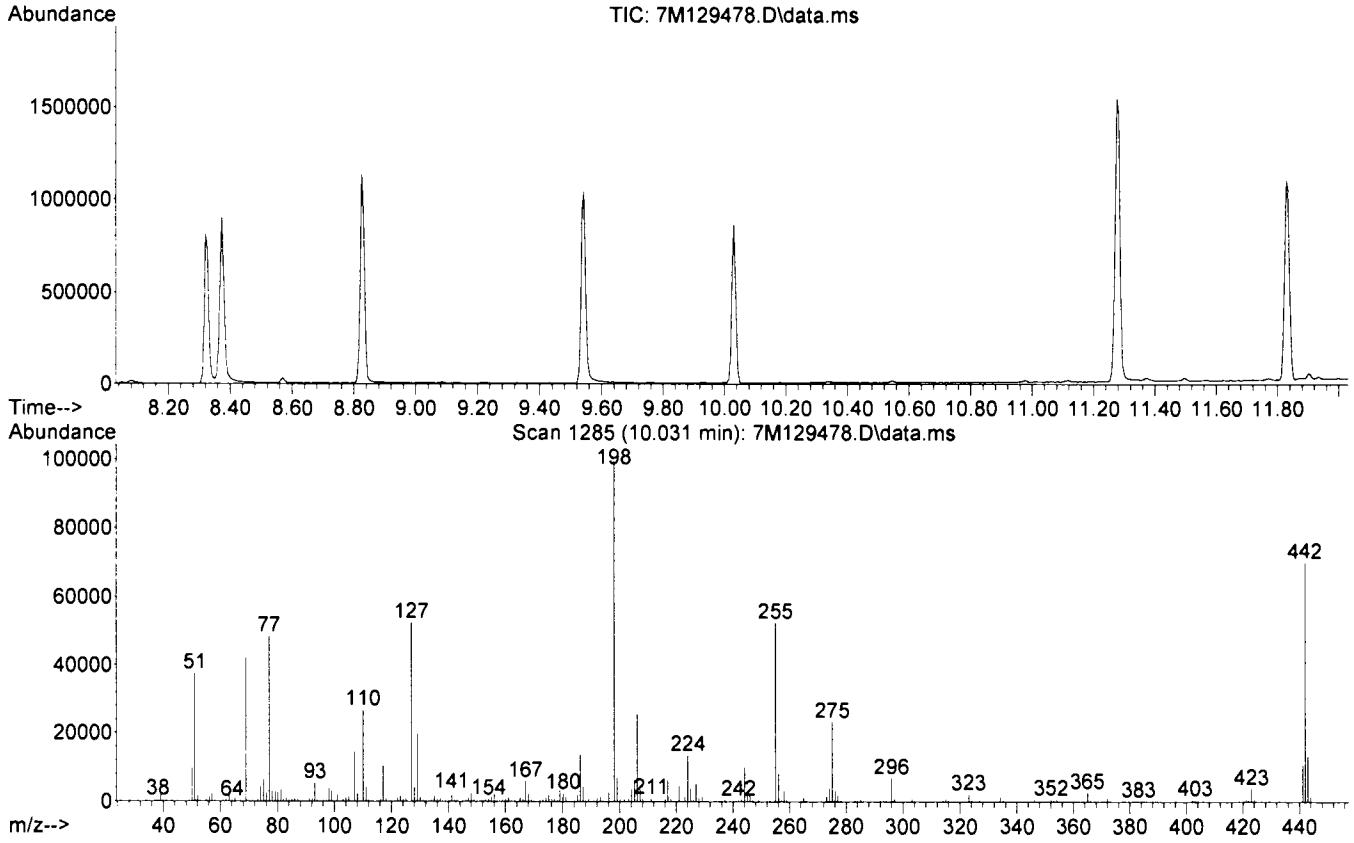
Data File	Sample Number	Analysis Date:
7M129479.D	CAL BNA@50PPM	06/23/23 17:49
7M129480.D	AD38554-009	06/23/23 18:13
7M129481.D	SMB108928	06/23/23 18:36
7M129482.D	AD38626-014	06/23/23 19:00
7M129483.D	AD38626-018(5X)	06/23/23 19:24
7M129484.D	AD38633-004	06/23/23 19:47
7M129485.D	AD38633-004(MS)	06/23/23 20:11
7M129486.D	AD38633-004(MSD	06/23/23 20:34
7M129487.D	AD38586-001	06/23/23 20:58
7M129488.D	AD38586-007(MS:	06/23/23 21:22
7M129489.D	AD38586-008(MSD	06/23/23 21:45
7M129490.D	AD38633-009	06/23/23 22:08
7M129491.D	AD38633-014	06/23/23 22:32
7M129492.D	AD38633-034	06/23/23 22:55
7M129493.D	AD38633-039	06/23/23 23:19
7M129494.D	AD38633-044	06/23/23 23:42
7M129495.D	AD38633-049	06/24/23 00:05
7M129496.D	AD38633-054	06/24/23 00:29
7M129497.D	AD38674-002	06/24/23 00:52
7M129498.D	AD38618-001(5X)	06/24/23 01:15
7M129499.D	AD38633-059	06/24/23 01:39
7M129500.D	AD38534-001(3X)	06/24/23 02:02
7M129501.D	AD38534-002(3X)	06/24/23 02:25
7M129502.D	AD38586-002	06/24/23 02:49
7M129503.D	AD38586-004	06/24/23 03:12
7M129504.D	AD38584-006	06/24/23 03:35
7M129505.D	AD38633-019	06/24/23 03:59
7M129506.D	AD38633-024	06/24/23 04:22
7M129507.D	AD38633-029	06/24/23 04:45
7M129508.D	AD38633-064	06/24/23 05:09
7M129509.D	AD38633-069	06/24/23 05:32
7M129510.D	AD38633-079	06/24/23 05:55

DFTPP

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-2323\
Data File : 7M129478.D
Acq On : 23 Jun 2023 17:25
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2023\GCMS_7\METHODQT\7M_0619.M
Title : @GCMS_7,mg,625,8270
Last Update : Mon Jun 19 13:31:01 2023



Spectrum Information: Scan 1285

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.7	37472	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.4	42120	PASS
70	69	0.00	2	0.7	299	PASS
127	198	40	60	52.8	52496	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	99376	PASS
199	198	5	9	6.9	6882	PASS
275	198	10	30	23.4	23264	PASS
365	198	1	100	2.6	2615	PASS
441	443	0.01	100	80.2	10636	PASS
442	198	40	100	70.6	70112	PASS
443	442	17	23	18.9	13257	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 7
Data File: 7M129511.D
Analysis Date: 06/26/23 07:49
Method: EPA 8270E

Tune Scan/Time Range: Scan 1289

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	40.4	44960	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	45.5	50664	PASS
70	69	0.00	2	0.8	389	PASS
127	198	40	60	57.1	63584	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	111408	PASS
199	198	5	9	6.8	7566	PASS
275	198	10	30	23.4	26024	PASS
365	198	1	100	2.7	2989	PASS
441	443	0.01	100	75.1	10809	PASS
442	198	40	100	68.7	76544	PASS
443	442	17	23	18.8	14387	PASS

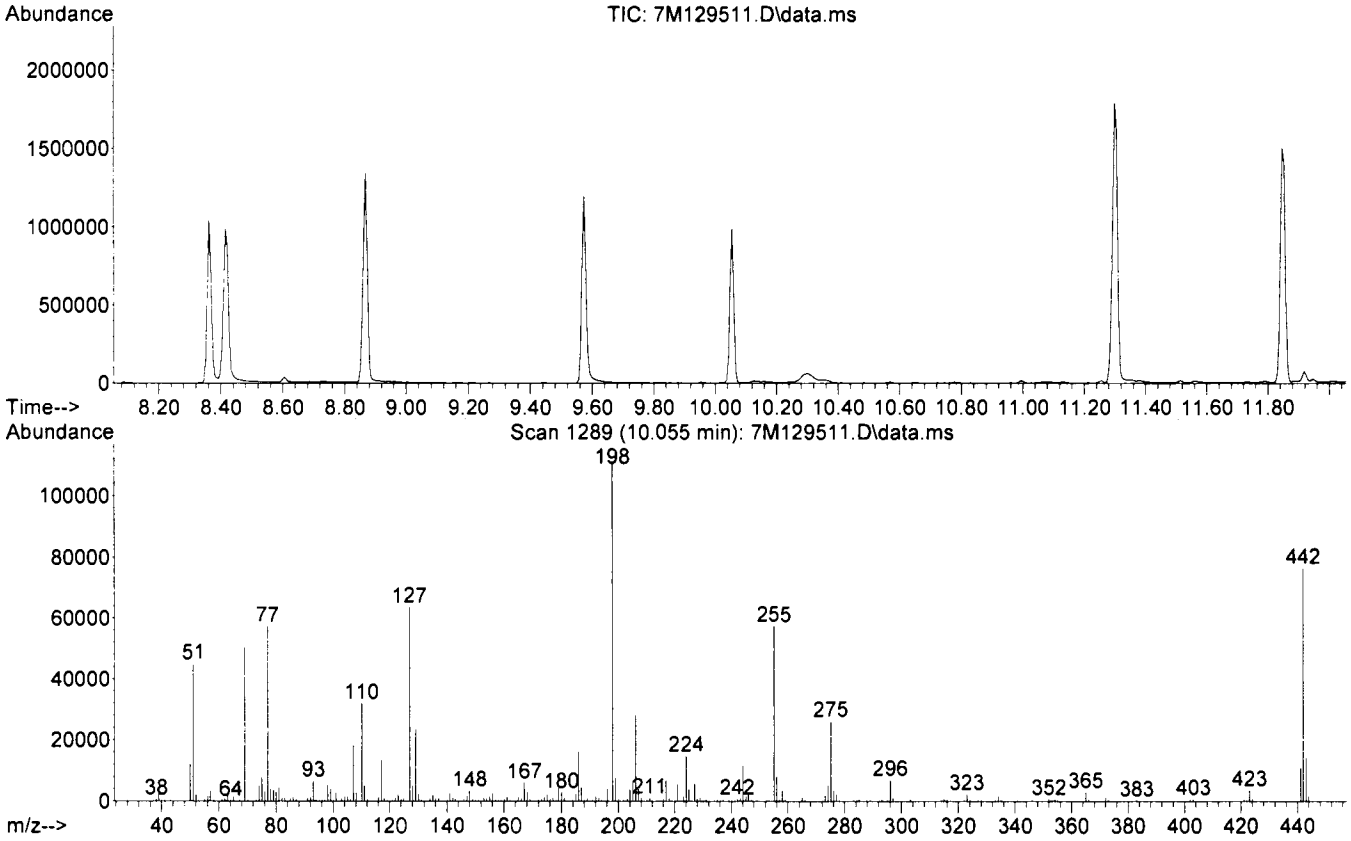
Data File	Sample Number	Analysis Date:
7M129512.D	CAL BNA@50PPM	06/26/23 08:22
7M129513.D	SMB108928	06/26/23 08:46
7M129514.D	AD38633-004	06/26/23 09:10
7M129515.D	AD38586-001	06/26/23 09:34
7M129516.D	AD38586-007(MS:	06/26/23 09:57
7M129517.D	AD38633-009	06/26/23 10:21
7M129518.D	AD38633-034	06/26/23 10:45
7M129519.D	AD38633-069	06/26/23 11:09
7M129520.D	AD38633-079	06/26/23 11:33
7M129521.D	AD38590-025	06/26/23 11:57
7M129522.D	AD38590-029	06/26/23 12:21
7M129523.D	AD38590-039	06/26/23 12:44
7M129524.D	AD38590-043	06/26/23 13:08
7M129525.D	AD38590-035(3X)	06/26/23 13:32
7M129526.D	AD38590-031(3X)	06/26/23 13:56
7M129527.D	AD38590-025(MS)	06/26/23 14:20
7M129528.D	AD38590-031(3X)	06/26/23 14:43
7M129529.D	AD38590-025(MSD	06/26/23 15:07
7M129530.D	SMB108906	06/26/23 15:31
7M129531.D	AD38582-001	06/26/23 15:55
7M129532.D	AD38582-002(3X)	06/26/23 16:31
7M129533.D	AD38590-025(MSD	06/26/23 16:55
7M129534.D	AD38582-003	06/26/23 17:19
7M129535.D	AD38582-004	06/26/23 17:43
7M129536.D	AD38584-036	06/26/23 18:07
7M129537.D	AD38584-040	06/26/23 18:30
7M129538.D	AD38590-001	06/26/23 18:54
7M129539.D	AD38590-003	06/26/23 19:18
7M129540.D	AD38590-005	06/26/23 19:41
7M129541.D	AD38590-009	06/26/23 20:05
7M129542.D	AD38590-011	06/26/23 20:28

DFTPP

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-26-23\
Data File : 7M129511.D
Acq On : 26 Jun 2023 7:49
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2023\GCMS_7\METHODQT\7M_0619.M
Title : @GCMS_7,mg,625,8270
Last Update : Mon Jun 19 13:31:01 2023



Spectrum Information: Scan 1289

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	40.4	44960	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	45.5	50664	PASS
70	69	0.00	2	0.8	389	PASS
127	198	40	60	57.1	63584	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	111408	PASS
199	198	5	9	6.8	7566	PASS
275	198	10	30	23.4	26024	PASS
365	198	1	100	2.7	2989	PASS
441	443	0.01	100	75.1	10809	PASS
442	198	40	100	68.7	76544	PASS
443	442	17	23	18.8	14387	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 9M122444.D
Instrument: GCMS 9 **Analysis Date:** 06/23/23 09:06
Method: EPA 8270E

Tune Scan/Time Range: Average of 9.989 to 9.995 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	46.7	26464	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.7	24204	PASS
70	69	0.00	2	0.4	92	PASS
127	198	40	60	49.7	28184	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	56696	PASS
199	198	5	9	6.8	3874	PASS
275	198	10	30	24.5	13882	PASS
365	198	1	100	2.8	1616	PASS
441	443	0.01	100	83.6	6613	PASS
442	198	40	100	72.0	40796	PASS
443	442	17	23	19.4	7914	PASS

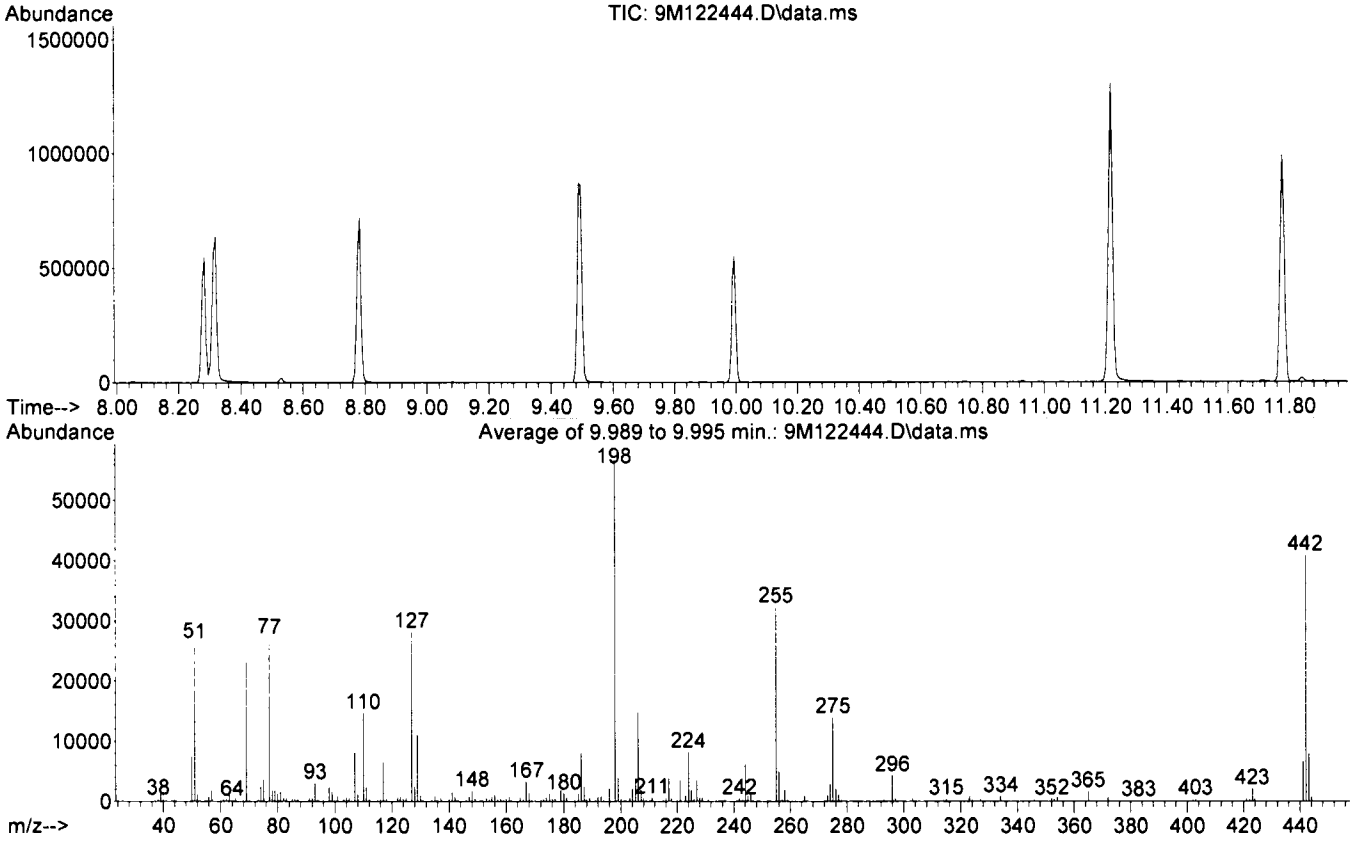
Data File	Sample Number	Analysis Date:
9M122445.D	CAL BNA@50PPM	06/23/23 09:28
9M122446.D	WMB108886	06/23/23 09:50
9M122447.D	MDL-1 (AQ)	06/23/23 10:13
9M122448.D	SMB108868(MS)	06/23/23 10:35
9M122449.D	SMB108868	06/23/23 10:58
9M122450.D	AD38653-001	06/23/23 11:20
9M122451.D	AD38653-002	06/23/23 11:43
9M122452.D	AD38653-004	06/23/23 12:06
9M122453.D	AD38653-005	06/23/23 12:28
9M122454.D	AD38653-006	06/23/23 12:51
9M122455.D	AD38554-015	06/23/23 13:13
9M122456.D	AD38554-012	06/23/23 13:36
9M122457.D	AD38653-003	06/23/23 13:59
9M122458.D	AD38554-003	06/23/23 14:21
9M122459.D	AD38554-006	06/23/23 14:44
9M122460.D	AD38554-012(MS)	06/23/23 15:06
9M122461.D	AD38554-012(MSD	06/23/23 15:29
9M122462.D	AD38584-008	06/23/23 15:52
9M122463.D	AD38584-010	06/23/23 16:15
9M122464.D	AD38584-012	06/23/23 16:37
9M122465.D	AD38584-016	06/23/23 17:00
9M122466.D	AD38586-003	06/23/23 17:23
9M122467.D	AD38614-002	06/23/23 17:45
9M122468.D	AD38626-019	06/23/23 18:08
9M122469.D	AD38614-004	06/23/23 18:31
9M122470.D	AD38633-084	06/23/23 18:53
9M122471.D	AD38532-001	06/23/23 19:16
9M122472.D	AD38614-003	06/23/23 19:39
9M122473.D	AD38633-074	06/23/23 20:01
9M122474.D	AD38584-014	06/23/23 20:24

DFTPP

Data Path : G:\GcMsData\2023\GCMS_9\Data\06-23-23\
Data File : 9M122444.D
Acq On : 23 Jun 2023 9:06
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2023\GCMS_9\METHODQT\9M_0621.M
Title : @GCMS_9,mg,625,8270
Last Update : Wed Jun 21 15:11:51 2023



Spectrum Information: Average of 9.989 to 9.995 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	46.7	26464	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.7	24204	PASS
70	69	0.00	2	0.4	92	PASS
127	198	40	60	49.7	28184	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	56696	PASS
199	198	5	9	6.8	3874	PASS
275	198	10	30	24.5	13882	PASS
365	198	1	100	2.8	1616	PASS
441	443	0.01	100	83.6	6613	PASS
442	198	40	100	72.0	40796	PASS
443	442	17	23	19.4	7914	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 7
Data File: 7M129478.D
Analysis Date: 06/23/23 17:25
Method: EPA 8270E

Tune Scan/Time Range: Scan 1285

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	37.7	37472	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.4	42120	PASS
70	69	0.00	2	0.7	299	PASS
127	198	40	60	52.8	52496	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	99376	PASS
199	198	5	9	6.9	6882	PASS
275	198	10	30	23.4	23264	PASS
365	198	1	100	2.6	2615	PASS
441	443	0.01	100	80.2	10636	PASS
442	198	40	100	70.6	70112	PASS
443	442	17	23	18.9	13257	PASS

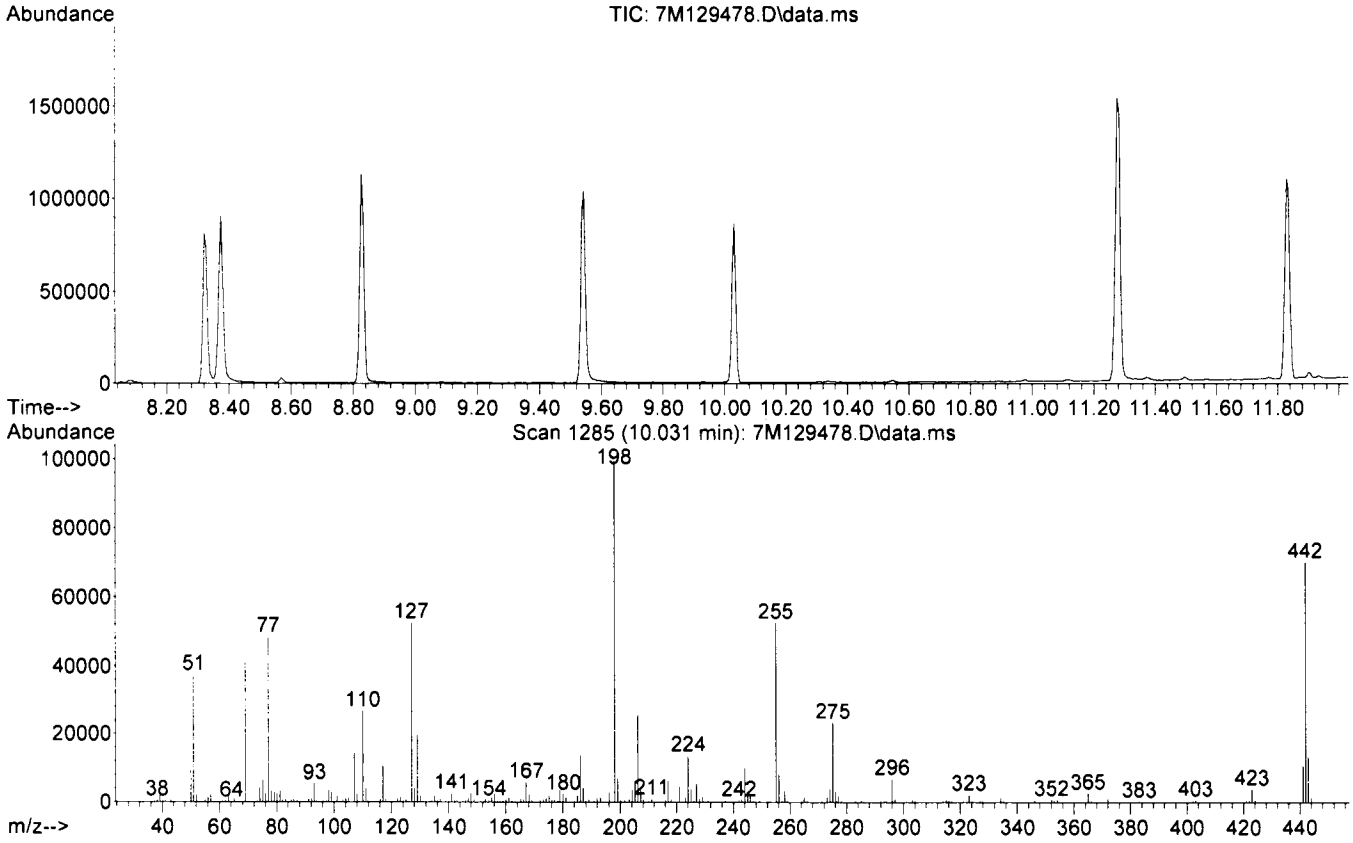
Data File	Sample Number	Analysis Date:
7M129479.D	CAL BNA@50PPM	06/23/23 17:49
7M129480.D	AD38554-009	06/23/23 18:13
7M129481.D	SMB108928	06/23/23 18:36
7M129482.D	AD38626-014	06/23/23 19:00
7M129483.D	AD38626-018(5X)	06/23/23 19:24
7M129484.D	AD38633-004	06/23/23 19:47
7M129485.D	AD38633-004(MS)	06/23/23 20:11
7M129486.D	AD38633-004(MSD	06/23/23 20:34
7M129487.D	AD38586-001	06/23/23 20:58
7M129488.D	AD38586-007(MS:	06/23/23 21:22
7M129489.D	AD38586-008(MSD	06/23/23 21:45
7M129490.D	AD38633-009	06/23/23 22:08
7M129491.D	AD38633-014	06/23/23 22:32
7M129492.D	AD38633-034	06/23/23 22:55
7M129493.D	AD38633-039	06/23/23 23:19
7M129494.D	AD38633-044	06/23/23 23:42
7M129495.D	AD38633-049	06/24/23 00:05
7M129496.D	AD38633-054	06/24/23 00:29
7M129497.D	AD38674-002	06/24/23 00:52
7M129498.D	AD38618-001(5X)	06/24/23 01:15
7M129499.D	AD38633-059	06/24/23 01:39
7M129500.D	AD38534-001(3X)	06/24/23 02:02
7M129501.D	AD38534-002(3X)	06/24/23 02:25
7M129502.D	AD38586-002	06/24/23 02:49
7M129503.D	AD38586-004	06/24/23 03:12
7M129504.D	AD38584-006	06/24/23 03:35
7M129505.D	AD38633-019	06/24/23 03:59
7M129506.D	AD38633-024	06/24/23 04:22
7M129507.D	AD38633-029	06/24/23 04:45
7M129508.D	AD38633-064	06/24/23 05:09
7M129509.D	AD38633-069	06/24/23 05:32
7M129510.D	AD38633-079	06/24/23 05:55

DFTPP

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-2323\
Data File : 7M129478.D
Acq On : 23 Jun 2023 17:25
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2023\GCMS_7\METHODQT\7M_0619.M
Title : @GCMS_7,mg,625,8270
Last Update : Mon Jun 19 13:31:01 2023



Spectrum Information: Scan 1285

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.7	37472	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.4	42120	PASS
70	69	0.00	2	0.7	299	PASS
127	198	40	60	52.8	52496	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	99376	PASS
199	198	5	9	6.9	6882	PASS
275	198	10	30	23.4	23264	PASS
365	198	1	100	2.6	2615	PASS
441	443	0.01	100	80.2	10636	PASS
442	198	40	100	70.6	70112	PASS
443	442	17	23	18.9	13257	PASS

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: WMB108840
Client Id:
Data File: 10M97623.D
Analysis Date: 06/20/23 09:50
Date Rec/Extracted: NA-06/19/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U
207-08-9	Benzo[k]fluoranthene	2.0	U				

Worksheet #: 696345

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

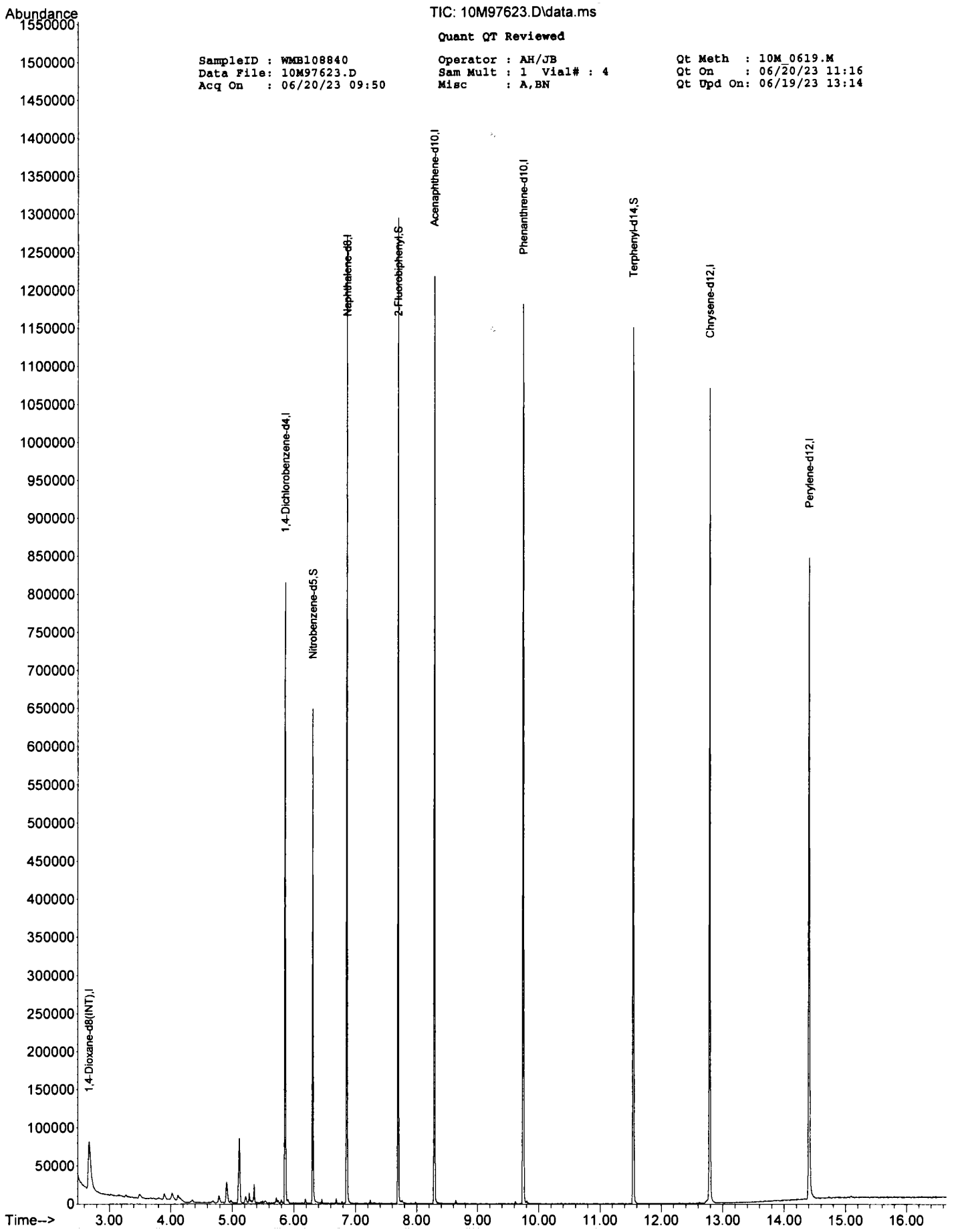
Quantitation Report (QT Reviewed)

SampleID : WMB108840 Operator : AH/JB Qt Meth : 10M_0619.M
Data File: 10M97623.D Sam Mult : 1 Vial# : 4 Qt On : 06/20/23 11:16
Acq On : 06/20/23 09:50 Misc : A,BN Qt Upd On: 06/19/23 13:14

Data Path : G:\GcMsData\2023\GCMS_10\Data\06-20-23\
Qt Path : G:\GCMSDATA\2023\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.674	96	71490	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.862	152	122873	40.00	ng	0.00
31) Naphthalene-d8	6.862	136	486339	40.00	ng	0.00
50) Acenaphthene-d10	8.285	164	271459	40.00	ng	0.00
77) Phenanthrene-d10	9.745	188	457271	40.00	ng	0.00
91) Chrysene-d12	12.788	240	377586	40.00	ng	0.00
103) Perylene-d12	14.409	264	356275	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	0.000	112	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
16) Phenol-d5	0.000	99	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
32) Nitrobenzene-d5	6.306	128	80922	41.30	ng	0.00
Spiked Amount 50.000			Recovery =	82.60%		
55) 2-Fluorobiphenyl	7.696	172	363992	39.39	ng	0.00
Spiked Amount 50.000			Recovery =	78.78%		
80) 2,4,6-Tribromophenol	0.000	330	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
94) Terphenyl-d14	11.542	244	359803	49.49	ng	0.00
Spiked Amount 50.000			Recovery =	98.98%		
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M97623.D\data.ms
Quant QT Reviewed
SampleID : WMB108840
Data File: 10M97623.D
Acq On : 06/20/23 09:50
Operator : AH/JB
Sam Mult : 1 Vial# : 4
Misc : A,BN
Qt Meth : 10M_0619.M
Qt On : 06/20/23 11:16
Qt Upd On: 06/19/23 13:14
1,4-Dioxane-d8(INT),I
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: SMB108929
Client Id:
Data File: 5M124278.D
Analysis Date: 06/23/23 14:31
Date Rec/Extracted: NA-06/23/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.033	U	50-32-8	Benzo[a]pyrene	0.033	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.033	U	205-99-2	Benzo[b]fluoranthene	0.033	U
123-91-1	1,4-Dioxane	0.0095	U	191-24-2	Benzo[g,h,i]perylene	0.033	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.033	U	207-08-9	Benzo[k]fluoranthene	0.033	U
95-95-4	2,4,5-Trichlorophenol	0.033	U	111-91-1	bis(2-Chloroethoxy)methan	0.033	U
88-06-2	2,4,6-Trichlorophenol	0.033	U	111-44-4	bis(2-Chloroethyl)ether	0.011	U
120-83-2	2,4-Dichlorophenol	0.011	U	108-60-1	bis(2-chloroisopropyl)ether	0.033	U
105-67-9	2,4-Dimethylphenol	0.033	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.30	U
51-28-5	2,4-Dinitrophenol	0.17	U	85-68-7	Butylbenzylphthalate	0.033	U
121-14-2	2,4-Dinitrotoluene	0.033	U	105-60-2	Caprolactam	0.033	U
606-20-2	2,6-Dinitrotoluene	0.033	U	86-74-8	Carbazole	0.033	U
91-58-7	2-Chloronaphthalene	0.033	U	218-01-9	Chrysene	0.033	U
95-57-8	2-Chlorophenol	0.033	U	53-70-3	Dibenzo[a,h]anthracene	0.033	U
91-57-6	2-Methylnaphthalene	0.033	U	132-64-9	Dibenzofuran	0.0087	U
95-48-7	2-Methylphenol	0.010	U	84-66-2	Diethylphthalate	0.59	U
88-74-4	2-Nitroaniline	0.033	U	131-11-3	Dimethylphthalate	0.033	U
88-75-5	2-Nitrophenol	0.033	U	84-74-2	Di-n-butylphthalate	0.80	U
106-44-5	3&4-Methylphenol	0.011	U	117-84-0	Di-n-octylphthalate	0.033	U
91-94-1	3,3'-Dichlorobenzidine	0.033	U	206-44-0	Fluoranthene	0.033	U
99-09-2	3-Nitroaniline	0.033	U	86-73-7	Fluorene	0.033	U
534-52-1	4,6-Dinitro-2-methylphenol	0.17	U	118-74-1	Hexachlorobenzene	0.033	U
101-55-3	4-Bromophenyl-phenylether	0.033	U	87-68-3	Hexachlorobutadiene	0.033	U
59-50-7	4-Chloro-3-methylphenol	0.033	U	77-47-4	Hexachlorocyclopentadiene	0.11	U
106-47-8	4-Chloroaniline	0.011	U	67-72-1	Hexachloroethane	0.033	U
7005-72-3	4-Chlorophenyl-phenylether	0.033	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.033	U
100-01-6	4-Nitroaniline	0.033	U	78-59-1	Isophorone	0.033	U
100-02-7	4-Nitrophenol	0.033	U	91-20-3	Naphthalene	0.0083	U
83-32-9	Acenaphthene	0.033	U	98-95-3	Nitrobenzene	0.033	U
208-96-8	Acenaphthylene	0.033	U	621-64-7	N-Nitroso-di-n-propylamine	0.0086	U
98-86-2	Acetophenone	0.033	U	86-30-6	n-Nitrosodiphenylamine	0.033	U
120-12-7	Anthracene	0.033	U	87-86-5	Pentachlorophenol	0.17	U
1912-24-9	Atrazine	0.033	U	85-01-8	Phenanthrene	0.033	U
100-52-7	Benzaldehyde	0.033	U	108-95-2	Phenol	0.033	U
56-55-3	Benzo[a]anthracene	0.033	U	129-00-0	Pyrene	0.033	U

Worksheet #: 696343 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

SampleID : SMB108929 Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124278.D Sam Mult : 1 Vial# : 8 Qt On : 06/23/23 15:47
Acq On : 06/23/23 14:31 Misc : S,BNA Qt Upd On: 06/23/23 14:38

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-23-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.339	96	85918	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.640	152	67067	40.00	ng	0.00
31) Naphthalene-d8	6.650	136	247684	40.00	ng	0.00
50) Acenaphthene-d10	8.055	164	138887	40.00	ng	0.00
77) Phenanthrene-d10	9.497	188	257627	40.00	ng	0.00
91) Chrysene-d12	12.537	240	217479	40.00	ng	0.00
103) Perylene-d12	14.140	264	211374	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.438	112	163711	43.29	ng	0.00
Spiked Amount 100.000			Recovery = 43.29%			
16) Phenol-d5	5.336	99	209388	45.24	ng	0.00
Spiked Amount 100.000			Recovery = 45.24%			
32) Nitrobenzene-d5	6.094	128	39293	37.94	ng	0.00
Spiked Amount 50.000			Recovery = 75.88%			
55) 2-Fluorobiphenyl	7.478	172	206128	41.48	ng	0.00
Spiked Amount 50.000			Recovery = 82.96%			
80) 2,4,6-Tribromophenol	8.787	330	48998	76.80	ng	0.00
Spiked Amount 100.000			Recovery = 76.80%			
94) Terphenyl-d14	11.298	244	189621	46.50	ng	0.00
Spiked Amount 50.000			Recovery = 93.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

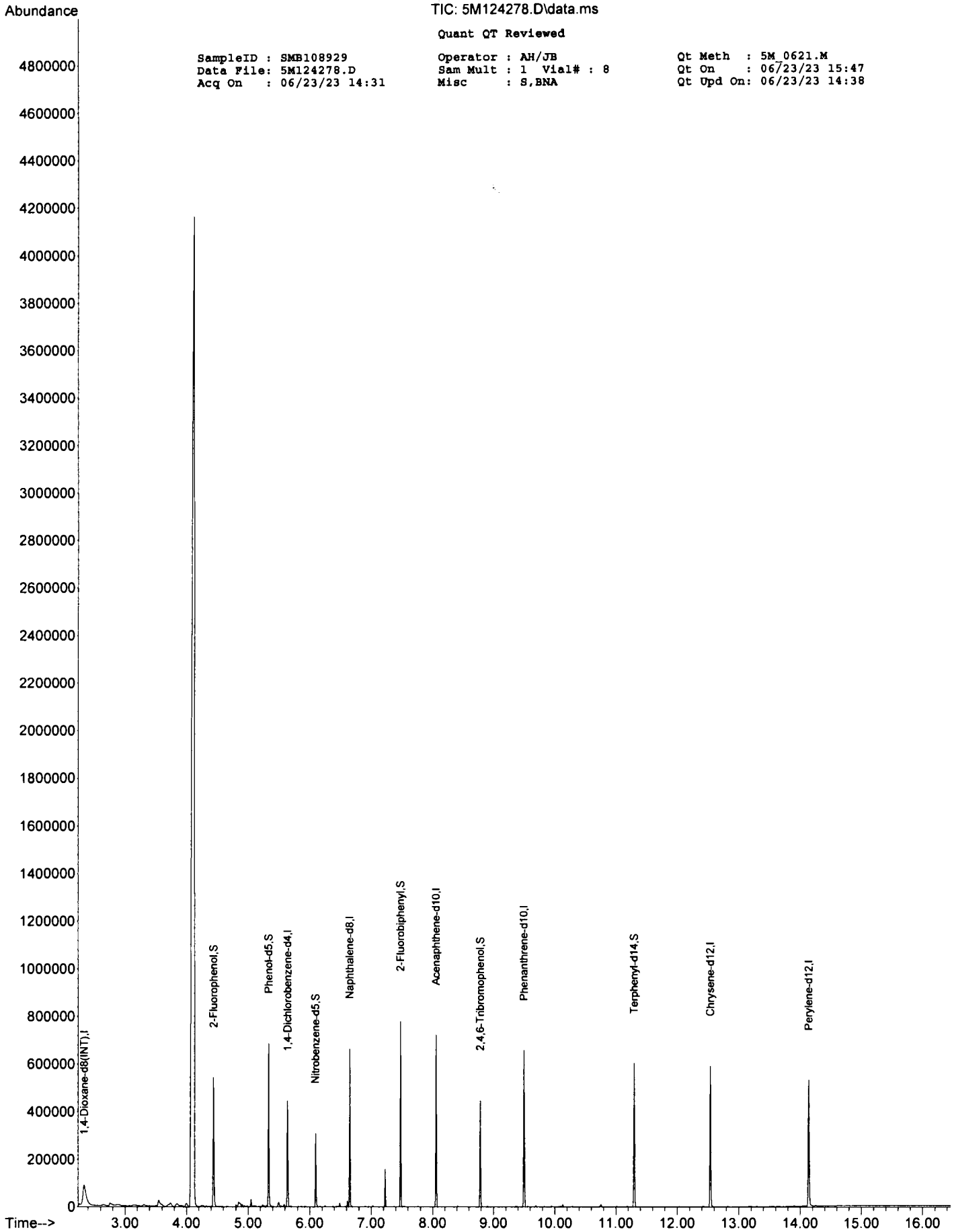
TIC: 5M124278.D\data.ms

Quant QT Reviewed

SampleID : SMB108929
Data File: 5M124278.D
Acq On : 06/23/23 14:31

Operator : AH/JB
Sam Mult : 1 Vial# : 8
Misc : S,BNA

Qt Meth : 5M_0621.M
Qt On : 06/23/23 15:47
Qt Upd On: 06/23/23 14:38



Form3
Recovery Data Laboratory Limits
QC Batch: WMB108840

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M97622.D	WMB108840(MS)	6/20/2023 9:27:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8270E Matrix: Aqueous Units: ug/L QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	21.0773	0	100	21	16	112
Pyridine	1	53.2391	0	100	53	10	131
N-Nitrosodimethylamine	1	27.1419	0	100	27	24	118
Benzaldehyde	1	51.176	0	100	51	10	103
Aniline	1	77.5464	0	100	78	10	149
Pentachloroethane	1	11.2028	0	100	11	10	155
bis(2-Chloroethyl)ether	1	69.8946	0	100	70	42	118
N-Decane	1	60.7885	0	100	61	25	129
1,3-Dichlorobenzene	1	65.9301	0	100	66	13	126
1,4-Dichlorobenzene	1	65.9121	0	100	66	13	133
1,2-Dichlorobenzene	1	67.11	0	100	67	16	129
Benzyl alcohol	1	46.372	0	100	46	33	150
bis(2-chloroisopropyl)ether	1	58.6774	0	100	59	28	119
Acetophenone	1	77.2739	0	100	77	47	132
Hexachloroethane	1	64.9747	0	100	65	19	132
N-Nitroso-di-n-propylamine	1	76.3652	0	100	76	46	127
Nitrobenzene	1	73.9042	0	100	74	45	134
Isophorone	1	67.4779	0	100	67	48	121
bis(2-Chloroethoxy)methane	1	75.1239	0	100	75	47	131
1,2,4-Trichlorobenzene	1	73.9241	0	100	74	32	135
Naphthalene	**1**	**74.2119**	**0**	**100**	**74**	**12**	**146**
4-Chloroaniline	1	95.1399	0	100	95	10	161
Hexachlorobutadiene	1	71.9279	0	100	72	24	136
Caprolactam	1	13.0288	0	100	13	10	155
2-Methylnaphthalene	**1**	**85.7569**	**0**	**100**	**86**	**34**	**156**
1-Methylnaphthalene	1	90.6312	0	100	91	44	149
1,1'-Biphenyl	1	84.9148	0	100	85	51	137
1,2,4,5-Tetrachlorobenzene	1	78.5471	0	100	79	52	131
Hexachlorocyclopentadiene	1	84.1276	0	100	84	24	137
2-Chloronaphthalene	1	79.1088	0	100	79	51	129
1,4-Dimethylnaphthalene	1	81.8541	0	100	82	50	137
Diphenyl Ether	1	81.9677	0	100	82	55	134
2-Nitroaniline	1	91.0181	0	100	91	45	165
Coumarin	1	0	0	100	0*	10	194
Acenaphthylene	**1**	**88.802**	**0**	**100**	**89**	**46**	**130**
Dimethylphthalate	1	60.8417	0	100	61	10	177
2,6-Dinitrotoluene	1	87.7972	0	100	88	55	135
Acenaphthene	**1**	**81.8616**	**0**	**100**	**82**	**48**	**136**
3-Nitroaniline	1	95.4096	0	100	95	24	169
Dibenzofuran	1	89.5342	0	100	90	50	147
2,4-Dinitrotoluene	1	88.5292	0	100	89	55	136
Fluorene	**1**	**84.8162**	**0**	**100**	**85**	**53**	**132**
4-Chlorophenyl-phenylether	1	85.8841	0	100	86	58	133
Diethylphthalate	1	81.5723	0	100	82	25	152
4-Nitroaniline	1	92.8502	0	100	93	33	166
Atrazine	1	76.2507	0	100	76	21	152
n-Nitrosodiphenylamine	1	66.7089	0	100	67	44	122
1,2-Diphenylhydrazine	1	84.3389	0	100	84	53	140
4-Bromophenyl-phenylether	1	87.814	0	100	88	60	139
Hexachlorobenzene	1	84.1597	0	100	84	58	132
N-Octadecane	1	110.534	0	100	111	53	157
Phenanthrene	**1**	**86.1073**	**0**	**100**	**86**	**56**	**136**
Anthracene	**1**	**86.6857**	**0**	**100**	**87**	**59**	**131**
Carbazole	1	96.027	0	100	96	53	159
Di-n-butylphthalate	1	98.0156	0	100	98	60	140
Fluoranthene	**1**	**90.7409**	**0**	**100**	**91**	**61**	**139**
Pyrene	**1**	**88.7299**	**0**	**100**	**89**	**58**	**133**
Benzidine	1	31.3325	0	100	31	10	43
Butylbenzylphthalate	1	95.9793	0	100	96	61	145
3,3'-Dichlorobenzidine	1	102.0635	0	100	102	10	145
Benzo[a]anthracene	**1**	**86.811**	**0**	**100**	**87**	**56**	**122**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB108840

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chrysene	1	86.4973	0	100	86	58	136
bis(2-Ethylhexyl)phthalate	1	93.2753	0	100	93	59	145
Di-n-octylphthalate	1	95.6784	0	100	96	57	147
Benzo[b]fluoranthene	1	101.9886	0	100	102	58	146
Benzo[k]fluoranthene	1	94.8982	0	100	95	57	140
Benzo[a]pyrene	1	97.6849	0	100	98	55	135
Indeno[1,2,3-cd]pyrene	1	91.5764	0	100	92	59	147
Dibenzo[a,h]anthracene	1	93.0314	0	100	93	58	142
Benzo[g,h,i]perylene	1	88.1918	0	100	88	57	138

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Quantitation Report (QT Reviewed)

SampleID : WMB108840(MS) Operator : AH/JB Qt Meth : 10M_0619.M
Data File: 10M97622.D Sam Mult : 1 Vial# : 3 Qt On : 06/20/23 11:15
Acq On : 06/20/23 09:27 Misc : A,BN Qt Upd On: 06/19/23 13:14

Data Path : G:\GcMsData\2023\GCMS_10\Data\06-20-23\
Qt Path : G:\GCMSDATA\2023\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.679	96	72335	40.00	ng	-0.01
21) 1,4-Dichlorobenzene-d4	5.862	152	127344	40.00	ng	0.00
31) Naphthalene-d8	6.862	136	498455	40.00	ng	0.00
50) Acenaphthene-d10	8.290	164	276072	40.00	ng	0.00
77) Phenanthrene-d10	9.750	188	461686	40.00	ng	0.00
91) Chrysene-d12	12.794	240	397986	40.00	ng	0.00
103) Perylene-d12	14.409	264	375524	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	0.000	112	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
16) Phenol-d5	0.000	99	0d	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
32) Nitrobenzene-d5	6.306	128	79437	39.55	ng	0.00
Spiked Amount 50.000			Recovery =	79.10%		
55) 2-Fluorobiphenyl	7.696	172	343529	36.55	ng	0.00
Spiked Amount 50.000			Recovery =	73.10%		
80) 2,4,6-Tribromophenol	0.000	330	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
94) Terphenyl-d14	11.547	244	366729	47.85	ng	0.00
Spiked Amount 50.000			Recovery =	95.70%		
Target Compounds						Qvalue
8) 1,4-Dioxane	2.717	88	41917	21.0773	ng	68
9) Pyridine	3.177	79	185233	53.2391	ng	74
10) N-Nitrosodimethylamine	3.123	74	75703	27.1419	ng	78
12) Benzaldehyde	5.487	77	173608	51.1760	ng	81
13) Aniline	5.584	93	471395	77.5464	ng	36
14) Pentachloroethane	5.621	117	18273	11.2028	ng	84
15) bis(2-Chloroethyl)ether	5.637	93	311224	69.8946	ng	81
19) N-Decane	5.723	57	309823	60.7885	ng	96
20) 1,3-Dichlorobenzene	5.814	146	316125	65.9301	ng	97
22) 1,4-Dichlorobenzene	5.878	146	328453	65.9121	ng	97
23) 1,2-Dichlorobenzene	6.001	146	314752	67.1100	ng	99
24) Benzyl alcohol	5.969	108	138090	46.3720	ng	73
25) bis(2-chloroisopropyl)...	6.081	45	372117	58.6774	ng	96
27) Acetophenone	6.188	105	467366	77.2739	ng	58
28) Hexachloroethane	6.274	117	123666	64.9747	ng	85
29) N-Nitroso-di-n-propyla...	6.183	70	229412	76.3652	ng	73
33) Nitrobenzene	6.322	77	335885	73.9042	ng	80
34) Isophorone	6.504	82	564262	67.4779	ng	87
38) bis(2-Chloroethoxy)met...	6.664	93	387727	75.1239	ng	97
40) 1,2,4-Trichlorobenzene	6.814	180	277294	73.9241	ng	98
41) Naphthalene	6.878	128	990631	74.2119	ng	99
42) 4-Chloroaniline	6.915	127	437145m	95.1399	ng	
43) Hexachlorobutadiene	6.969	225	138548	71.9279	ng	97
44) Caprolactam	7.156	113	19078	13.0288	ng	70
46) 2-Methylnaphthalene	7.413	142	738762	85.7569	ng	98
47) 1-Methylnaphthalene	7.493	142	741882	90.6312	ng	95
48) Methylnaphthalenes (To...	7.413	142	1478435m	176.9062	ng	
49) 1,1'-Biphenyl	7.787	154	901208	84.9148	ng	94
51) 1,2,4,5-Tetrachloroben...	7.547	216	299310	78.5471	ng	99
52) Hexachlorocyclopentadiene	7.536	237	135906	84.1276	ng	99
56) 2-Chloronaphthalene	7.809	162	634152	79.1088	ng	92
57) 1,4-Dimethylnaphthalene	8.092	156	543521	81.8541	ng	87
58) Dimethylnaphthalenes (...	8.092	156	543521	81.8541	ng	87
59) Diphenyl Ether	7.867	170	488180	81.9677	ng	79
60) 2-Nitroaniline	7.889	65	257885	91.0181	ng	50
61) Coumarin	8.071	146	3050m	0.9116	ng	
62) Acenaphthylene	8.167	152	1025421	88.8020	ng	99
63) Dimethylphthalate	8.028	163	533344	60.8417	ng	94
64) 2,6-Dinitrotoluene	8.087	165	169736	87.7972	ng	64
65) Acenaphthene	8.322	153	650570	81.8616	ng	97
66) 3-Nitroaniline	8.242	138	215672	95.4096	ng	71
68) Dibenzofuran	8.472	168	1020751	89.5342	ng	87
69) 2,4-Dinitrotoluene	8.445	165	233921	88.5292	ng	65
72) Fluorene	8.798	166	785835	84.8162	ng	100
73) 4-Chlorophenyl-phenyle...	8.782	204	363131	85.8841	ng	86
74) Diethylphthalate	8.659	149	705280	81.5723	ng	96
75) 4-Nitroaniline	8.803	138	228799	92.8502	ng	72
76) Atrazine	9.424	200	194453	76.2507	ng	95
79) n-Nitrosodiphenylamine	8.894	169	529161	66.7089	ng	98
81) 1,2-Diphenylhydrazine	8.937	77	816931	84.3389	ng	85
82) 4-Bromophenyl-phenylether	9.269	248	205850	87.8140	ng	87

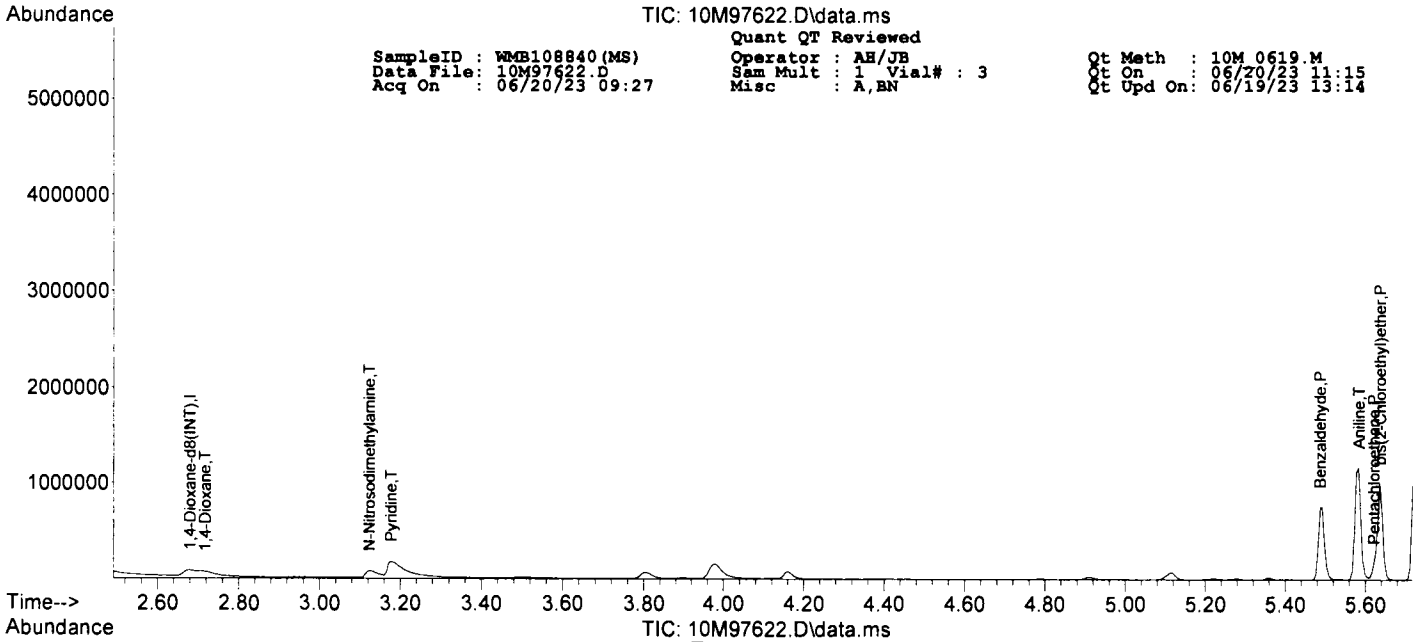
Quantitation Report (QT Reviewed)

SampleID : WMB108840(MS) Operator : AH/JB Qt Meth : 10M_0619.M
Data File: 10M97622.D Sam Mult : 1 Vial# : 3 Qt On : 06/20/23 11:15
Acq On : 06/20/23 09:27 Misc : A,BN Qt Upd On: 06/19/23 13:14

Data Path : G:\GcMsData\2023\GCMS_10\Data\06-20-23\
Qt Path : G:\GCMSDATA\2023\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
83) Hexachlorobenzene	9.344	284	204459	84.1597	ng	68
84) N-Octadecane	9.600	57	549818	110.5340	ng	79
86) Phenanthrene	9.777	178	1120100	86.1073	ng	100
87) Anthracene	9.830	178	1139878	86.6857	ng	98
88) Carbazole	9.996	167	1204118	96.0270	ng	98
89) Di-n-butylphthalate	10.371	149	1339327	98.0156	ng	98
90) Fluoranthene	11.103	202	1199625	90.7409	ng	95
92) Pyrene	11.371	202	1220098	88.7299	ng	87
93) Benzidine	11.253	184	221424	31.3325	ng	86
97) Butylbenzylphthalate	12.130	149	568925	95.9793	ng	73
99) 3,3'-Dichlorobenzidine	12.756	252	407235	102.0635	ng	96
100) Benzo[a]anthracene	12.783	228	1071413	86.8110	ng	99
101) Chrysene	12.826	228	1021948	86.4973	ng	100
102) bis(2-Ethylhexyl)phtha...	12.820	149	775300	93.2753	ng	90
104) Di-n-octylphthalate	13.564	149	1280766	95.6784	ng	99
105) Benzo[b]fluoranthene	13.992	252	1150509	101.9886	ng	95
106) Benzo[k]fluoranthene	14.024	252	1085192	94.8982	ng	95
107) Benzo[a]pyrene	14.350	252	980910	97.6849	ng	94
108) Indeno[1,2,3-cd]pyrene	15.741	276	1133733	91.5764	ng	89
109) Dibenzo[a,h]anthracene	15.757	278	959812	93.0314	ng	92
110) Benzo[g,h,i]perylene	16.120	276	897759	88.1918	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed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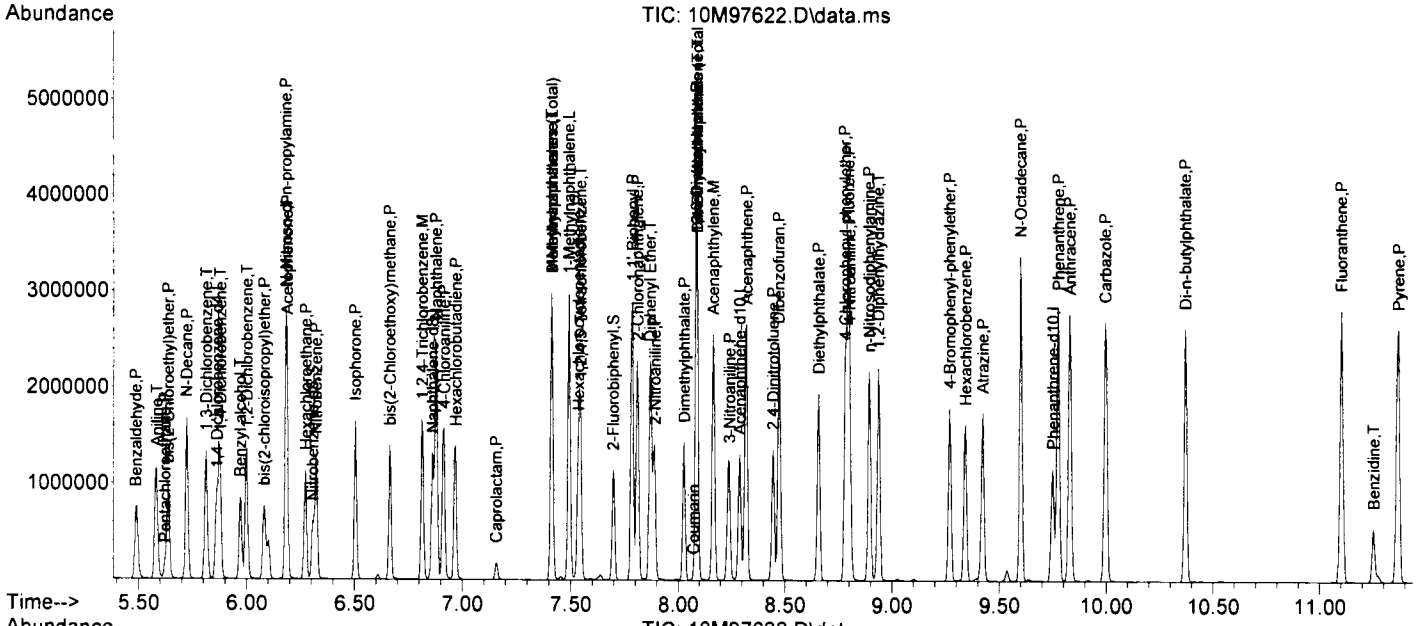
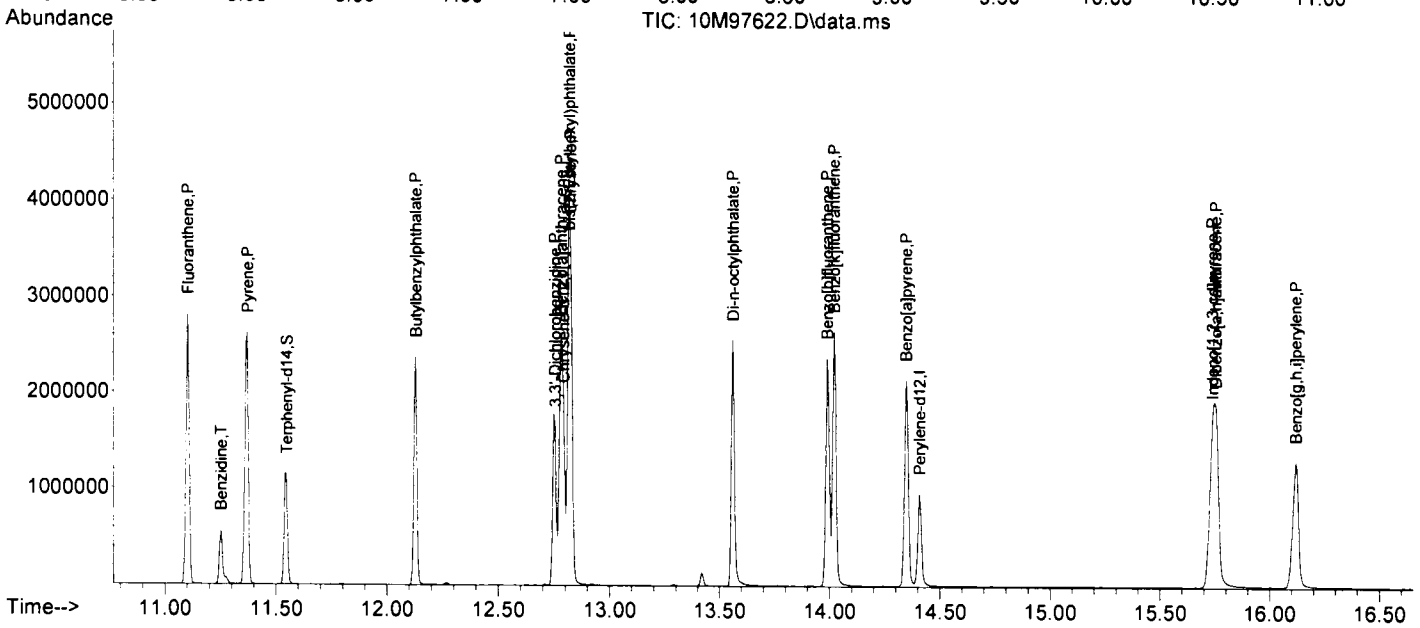
TIC: 10M97622.D\data.ms
Quant QT Reviewed
SampleID : WMB108840(MS)
Data File: 10M97622.D
Acq On : 06/20/23 09:27
Operator : AH/JB
Sam Mult : 1 Vial# : 3
Misc : A,BN
Qt Meth : 10M_0619.M
Qt On : 06/20/23 11:15
Qt Upd On: 06/19/23 13:14
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
Benzaldehyde,P
Aniline,T
Time-->


Abundance
TIC: 10M97622.D\data.ms
Benzaldehyde,P
Isophorone,P
Caprolactam,P
Diethylphthalate,P
Fluoranthene,P
Pyrene,P
Benzidine,T
Time-->


Abundance
TIC: 10M97622.D\data.ms
Fluoranthene,P
Pyrene,P
Benzidine,T
Terphenyl-d14,S
Butylbenzylphthalate,P
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Form3
Recovery Data Laboratory Limits
QC Batch: SMB108929

	Data File	Sample ID:	Analysis Date
Spike or Dup:	5M124277.D	SMB108929(MS)	6/23/2023 2:08:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	9.8936	0	50	20	10	60
Pyridine	1	19.7856	0	50	40	13	107
N-Nitrosodimethylamine	1	20.4608	0	50	41	30	100
Benzaldehyde	1	12.629	0	50	25	10	121
Aniline	1	17.6211	0	50	35	10	96
Pentachloroethane	1	19.108	0	50	38	19	125
bis(2-Chloroethyl)ether	1	17.9118	0	50	36	28	120
Phenol	1	40.3909	0	100	40	32	119
2-Chlorophenol	1	42.6159	0	100	43	33	124
N-Decane	1	15.5076	0	50	31	10	142
1,3-Dichlorobenzene	1	17.6121	0	50	35	32	105
1,4-Dichlorobenzene	1	37.2664	0	50	75	37	100
1,2-Dichlorobenzene	1	37.1667	0	50	74	29	108
Benzyl alcohol	1	41.6438	0	50	83	37	119
bis(2-chloroisopropyl)ether	1	33.6226	0	50	67	20	110
2-Methylphenol	1	89.3574	0	100	89	38	114
Acetophenone	1	45.5538	0	50	91	11	152
Hexachloroethane	1	36.9027	0	50	74	10	130
N-Nitroso-di-n-propylamine	1	39.506	0	50	79	10	151
3&4-Methylphenol	1	88.4998	0	100	88	36	127
Nitrobenzene	1	38.9962	0	50	78	20	142
Isophorone	1	34.1711	0	50	68	10	164
2-Nitrophenol	1	88.278	0	100	88	16	146
2,4-Dimethylphenol	1	87.0928	0	100	87	15	150
Benzoic Acid	1	94.7494	0	100	95	10	182
bis(2-Chloroethoxy)methane	1	37.8864	0	50	76	26	131
2,4-Dichlorophenol	1	88.969	0	100	89	20	146
1,2,4-Trichlorobenzene	1	38.2996	0	50	77	33	121
Naphthalene	1	37.0597	0	50	74	10	153
4-Chloroaniline	1	40.4624	0	50	81	10	112
Hexachlorobutadiene	1	37.2246	0	50	74	32	113
Caprolactam	1	48.7146	0	50	97	10	174
4-Chloro-3-methylphenol	1	93.4129	0	100	93	32	138
2-Methylnaphthalene	1	42.7306	0	50	85	11	153
1-Methylnaphthalene	1	44.9282	0	50	90	10	180
1,1'-Biphenyl	1	41.5287	0	50	83	18	148
1,2,4,5-Tetrachlorobenzene	1	42.0004	0	50	84	31	124
Hexachlorocyclopentadiene	1	49.1265	0	50	98	10	103
2,4,6-Trichlorophenol	1	95.4757	0	100	95	32	137
2,4,5-Trichlorophenol	1	92.6975	0	100	93	36	131
2-Chloronaphthalene	1	39.0212	0	50	78	41	115
1,4-Dimethylnaphthalene	1	39.4913	0	50	79	10	205
Diphenyl Ether	1	43.3234	0	50	87	31	127
2-Nitroaniline	1	45.7348	0	50	91	32	142
Coumarin	1	41.7636	0	50	84	14	160
Acenaphthylene	1	45.5029	0	50	91	26	133
Dimethylphthalate	1	41.7885	0	50	84	40	120
2,6-Dinitrotoluene	1	41.36	0	50	83	18	148
Acenaphthene	1	40.2763	0	50	81	11	158
3-Nitroaniline	1	40.7639	0	50	82	14	137
2,4-Dinitrophenol	1	81.7532	0	100	82	10	128
Dibenzofuran	1	42.3101	0	50	85	10	170
2,4-Dinitrotoluene	1	44.7002	0	50	89	10	173
4-Nitrophenol	1	101.5372	0	100	102	23	140
2,3,4,6-Tetrachlorophenol	1	91.7794	0	100	92	26	127
Fluorene	1	42.4114	0	50	85	14	152
4-Chlorophenyl-phenylether	1	40.6758	0	50	81	40	121
Diethylphthalate	1	42.7506	0	50	86	40	119
4-Nitroaniline	1	46.8939	0	50	94	31	125
Atrazine	1	48.6789	0	50	97	12	164
4,6-Dinitro-2-methylphenol	1	92.7605	0	100	93	10	146

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB108929

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	**1**	**35.0578**	**0**	**50**	**70**	**10**	**172**
1,2-Diphenylhydrazine	1	40.104	0	50	80	24	144
4-Bromophenyl-phenylether	**1**	**40.8525**	**0**	**50**	**82**	**26**	**148**
Hexachlorobenzene	**1**	**41.0348**	**0**	**50**	**82**	**36**	**124**
N-Octadecane	1	57.2761	0	50	115	10	186
Pentachlorophenol	**1**	**90.7506**	**0**	**100**	**91**	**21**	**148**
Phenanthrene	**1**	**41.9422**	**0**	**50**	**84**	**10**	**175**
Anthracene	**1**	**42.8367**	**0**	**50**	**86**	**21**	**148**
Carbazole	**1**	**45.1837**	**0**	**50**	**90**	**36**	**137**
Di-n-butylphthalate	**1**	**49.2457**	**0**	**50**	**98**	**41**	**134**
Fluoranthene	**1**	**44.2012**	**0**	**50**	**88**	**10**	**186**
Pyrene	**1**	**45.3865**	**0**	**50**	**91**	**10**	**196**
Benzidine	1	11.7021	0	50	23	10	77
Butylbenzylphthalate	**1**	**48.1053**	**0**	**50**	**96**	**40**	**139**
3,3'-Dichlorobenzidine	**1**	**36.3725**	**0**	**50**	**73**	**10**	**110**
Benzo[a]anthracene	**1**	**43.7902**	**0**	**50**	**88**	**13**	**142**
Chrysene	**1**	**43.1786**	**0**	**50**	**86**	**11**	**161**
bis(2-Ethylhexyl)phthalate	**1**	**47.1634**	**0**	**50**	**94**	**34**	**156**
Di-n-octylphthalate	**1**	**47.7232**	**0**	**50**	**95**	**28**	**158**
Benzo[b]fluoranthene	**1**	**46.6356**	**0**	**50**	**93**	**20**	**156**
Benzo[k]fluoranthene	**1**	**45.5844**	**0**	**50**	**91**	**15**	**156**
Benzo[a]pyrene	**1**	**49.372**	**0**	**50**	**99**	**14**	**144**
Indeno[1,2,3-cd]pyrene	**1**	**44.388**	**0**	**50**	**89**	**24**	**142**
Dibenzo[a,h]anthracene	**1**	**43.6824**	**0**	**50**	**87**	**29**	**132**
Benzo[g,h,i]perylene	**1**	**43.8039**	**0**	**50**	**88**	**12**	**142**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Quantitation Report (QT Reviewed)

SampleID : SMB108929(MS) Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124277.D Sam Mult : 1 Vial# : 7 Qt On : 06/23/23 14:36
Acq On : 06/23/23 14:08 Misc : S,BNA Qt Upd On: 06/21/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-23-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.339	96	101756	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.640	152	70437	40.00	ng	0.00
31) Naphthalene-d8	6.655	136	249301	40.00	ng	0.00
50) Acenaphthene-d10	8.060	164	137827	40.00	ng	0.00
77) Phenanthrene-d10	9.503	188	249639	40.00	ng	0.00
91) Chrysene-d12	12.543	240	222750	40.00	ng	0.00
103) Perylene-d12	14.145	264	218861	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.438	112	191322	42.71	ng	0.00
Spiked Amount 100.000			Recovery = 42.71%			
16) Phenol-d5	5.336	99	243456	44.42	ng	0.00
Spiked Amount 100.000			Recovery = 44.42%			
32) Nitrobenzene-d5	6.100	128	45941	44.07	ng	0.00
Spiked Amount 50.000			Recovery = 88.14%			
55) 2-Fluorobiphenyl	7.484	172	220668	44.75	ng	0.00
Spiked Amount 50.000			Recovery = 89.50%			
80) 2,4,6-Tribromophenol	8.792	330	62483	101.07	ng	0.00
Spiked Amount 100.000			Recovery = 101.07%			
94) Terphenyl-d14	11.303	244	208169	49.85	ng	0.00
Spiked Amount 50.000			Recovery = 99.70%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.371	88	26679	9.8936	ng	99
9) Pyridine	2.798	79	107233	19.7856	ng	67
10) N-Nitrosodimethylamine	2.745	74	83967	20.4608	ng	85
12) Benzaldehyde	5.266	77	49581	12.6290	ng	74
13) Aniline	5.363	93	111415	17.6211	ng	22
14) Pentachloroethane	5.400	117	33477	19.1080	ng	74
15) bis(2-Chloroethyl)ether	5.421	93	88442	17.9118	ng	82
17) Phenol	5.352	94	267796	40.3909	ng	83
18) 2-Chlorophenol	5.464	128	204965	42.6159	ng	79
19) N-Decane	5.502	57	78369	15.5076	ng	97
20) 1,3-Dichlorobenzene	5.592	146	97393m	17.6121	ng	
22) 1,4-Dichlorobenzene	5.656	146	103168	37.2664	ng	98
23) 1,2-Dichlorobenzene	5.779	146	96749	37.1667	ng	98
24) Benzyl alcohol	5.763	108	63862	41.6438	ng	70
25) bis(2-chloroisopropyl)...	5.870	45	95658	33.6226	ng	100
26) 2-Methylphenol	5.854	108	188890	89.3574	ng	96
27) Acetophenone	5.977	105	141040	45.5538	ng	87
28) Hexachloroethane	6.057	117	36325	36.9027	ng	90
29) N-Nitroso-di-n-propyla...	5.977	70	63367	39.5060	ng	72
30) 3&4-Methylphenol	5.977	108	196317	88.4998	ng	87
33) Nitrobenzene	6.111	77	92387	38.9962	ng	83
34) Isophorone	6.303	82	145512	34.1711	ng	85
35) 2-Nitrophenol	6.362	139	104992	88.2780	ng	83
36) 2,4-Dimethylphenol	6.394	107	191896	87.0928	ng	91
37) Benzoic Acid	6.490	105	145716	94.7494	ng	86
38) bis(2-Chloroethoxy)met...	6.468	93	101709	37.8864	ng	95
39) 2,4-Dichlorophenol	6.549	162	172238	88.9690	ng	83
40) 1,2,4-Trichlorobenzene	6.607	180	86632	38.2996	ng	97
41) Naphthalene	6.671	128	265844	37.0597	ng	100
42) 4-Chloroaniline	6.709	127	92089m	40.4624	ng	
43) Hexachlorobutadiene	6.757	225	48148	37.2246	ng	96
44) Caprolactam	6.987	113	29576	48.7146	ng	72
45) 4-Chloro-3-methylphenol	7.072	107	166277	93.4129	ng	77
46) 2-Methylnaphthalene	7.195	142	193348	42.7306	ng	98
47) 1-Methylnaphthalene	7.275	142	189824	44.9282	ng	92
49) 1,1'-Biphenyl	7.564	154	234942	41.5287	ng	96
51) 1,2,4,5-Tetrachloroben...	7.323	216	94757	42.0004	ng	99
52) Hexachlorocyclopentadiene	7.313	237	41810	49.1265	ng	98
53) 2,4,6-Trichlorophenol	7.414	196	129566m	95.4757	ng	
54) 2,4,5-Trichlorophenol	7.446	196	134899m	92.6975	ng	
56) 2-Chloronaphthalene	7.585	162	164687	39.0212	ng	91
57) 1,4-Dimethylnaphthalene	7.863	156	139207	39.4913	ng	87
59) Diphenyl Ether	7.649	170	126744	43.3234	ng	74
60) 2-Nitroaniline	7.670	65	57835	45.7348	ng	42
61) Coumarin	7.847	146	71278	41.7636	ng	97
62) Acenaphthylene	7.938	152	268571	45.5029	ng	99
63) Dimethylphthalate	7.809	163	188541	41.7885	ng	99
64) 2,6-Dinitrotoluene	7.868	165	41790	41.3600	ng	59
65) Acenaphthene	8.087	153	168015	40.2763	ng	97
66) 3-Nitroaniline	8.018	138	40885	40.7639	ng	73
67) 2,4-Dinitrophenol	8.109	184	40263	81.7532	ng	29

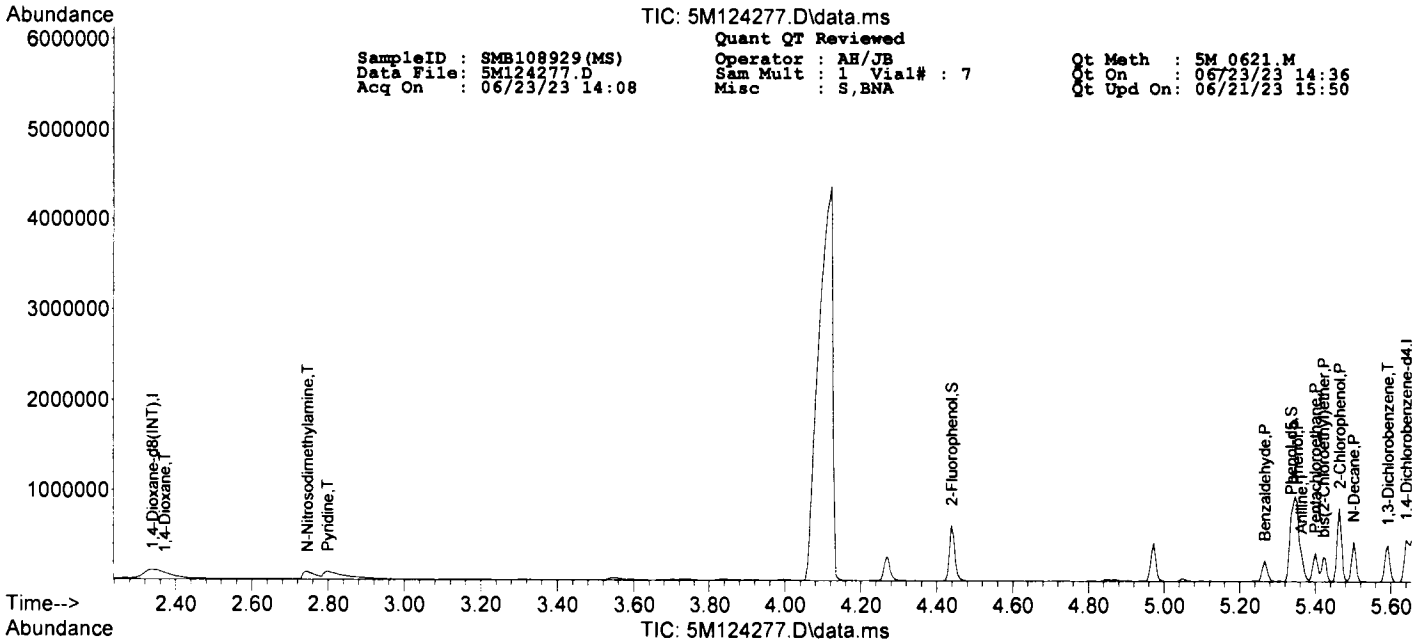
Quantitation Report (QT Reviewed)

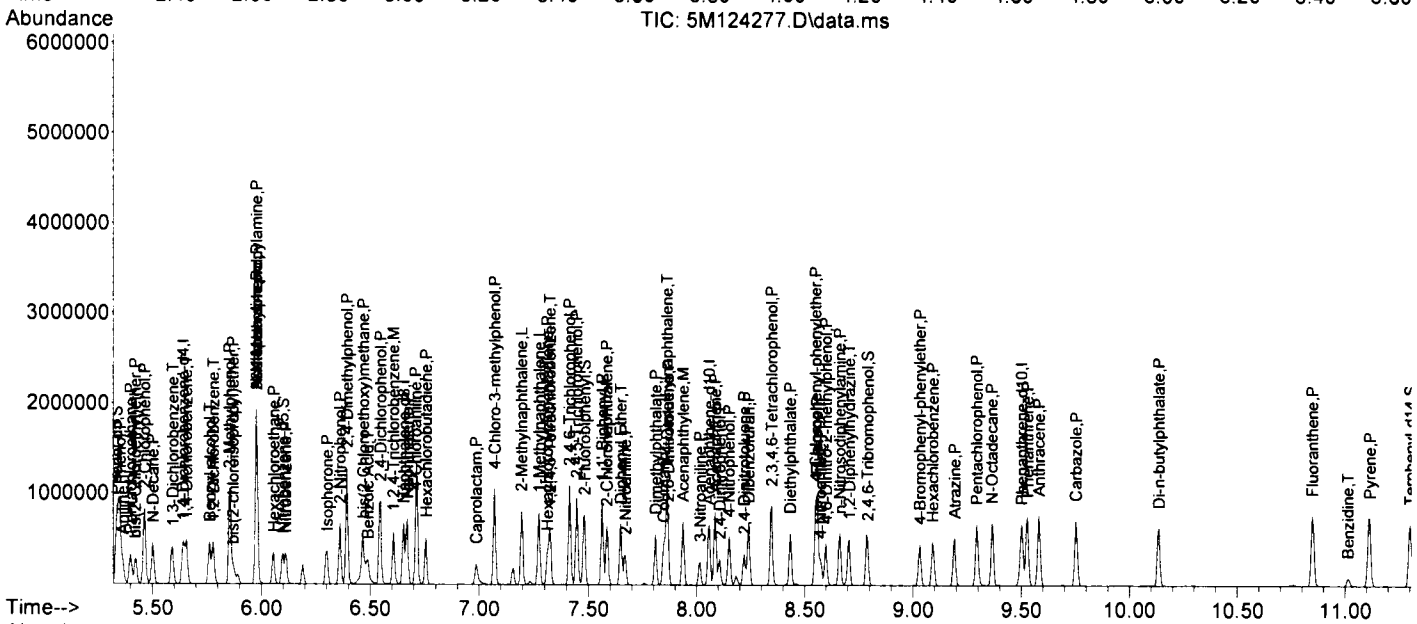
SampleID : SMB108929(MS) Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124277.D Sam Mult : 1 Vial# : 7 Qt On : 06/23/23 14:36
Acq On : 06/23/23 14:08 Misc : S,BNA Qt Upd On: 06/21/23 15:50

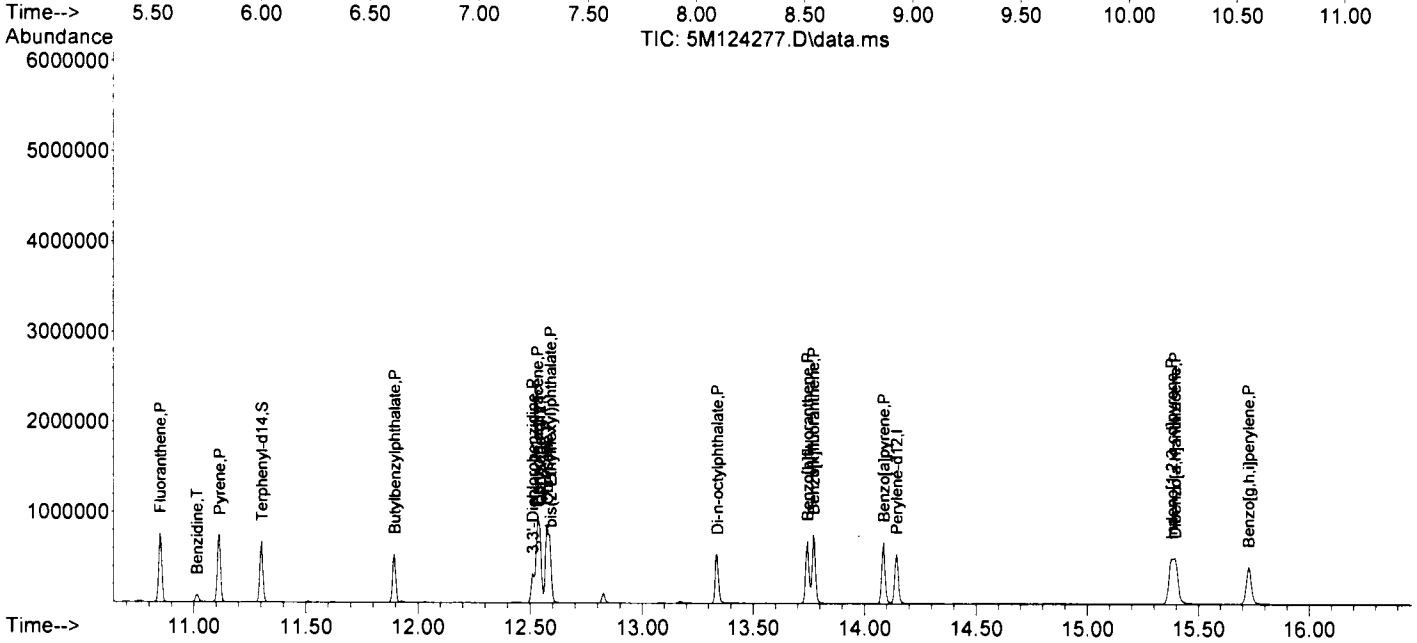
Data Path : G:\GcMsData\2023\GCMS_5\Data\06-23-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) Dibenzofuran	8.242	168	259536	42.3101	ng	80
69) 2,4-Dinitrotoluene	8.221	165	56949	44.7002	ng	61
70) 4-Nitrophenol	8.151	65	71058	101.5372	ng	88
71) 2,3,4,6-Tetrachlorophenol	8.349	232	108440	91.7794	ng	82
72) Fluorene	8.557	166	205939	42.4114	ng	99
73) 4-Chlorophenyl-phenyle...	8.552	204	98256	40.6758	ng	78
74) Diethylphthalate	8.434	149	183827	42.7506	ng	96
75) 4-Nitroaniline	8.573	138	51928	46.8939	ng	74
76) Atrazine	9.193	200	59348	48.6789	ng	94
78) 4,6-Dinitro-2-methylph...	8.600	198	66720	92.7605	ng	73
79) n-Nitrosodiphenylamine	8.664	169	137063	35.0578	ng	98
81) 1,2-Diphenylhydrazine	8.707	77	190142	40.1040	ng	78
82) 4-Bromophenyl-phenylether	9.033	248	55448	40.8525	ng	80
83) Hexachlorobenzene	9.092	284	60670	41.0348	ng	65
84) N-Octadecane	9.364	57	116758	57.2761	ng	74
85) Pentachlorophenol	9.295	266	76752	90.7506	ng	98
86) Phenanthrene	9.530	178	288347	41.9422	ng	99
87) Anthracene	9.583	178	293783	42.8367	ng	99
88) Carbazole	9.754	167	285948	45.1837	ng	96
89) Di-n-butylphthalate	10.139	149	342054	49.2457	ng	97
90) Fluoranthene	10.849	202	330694	44.2012	ng	91
92) Pyrene	11.116	202	341886	45.3865	ng	84
93) Benzidine	11.015	184	32900	11.7021	ng	86
97) Butylbenzylphthalate	11.896	149	137118	48.1053	ng	70
99) 3,3'-Dichlorobenzidine	12.511	252	74511	36.3725	ng	94
100) Benzo[a]anthracene	12.532	228	312797m	43.7902	ng	
101) Chrysene	12.575	228	289891	43.1786	ng	99
102) bis(2-Ethylhexyl)phtha...	12.591	149	190123	47.1634	ng	93
104) Di-n-octylphthalate	13.339	149	309326	47.7232	ng	99
105) Benzo[b]fluoranthene	13.745	252	311076	46.6356	ng	96
106) Benzo[k]fluoranthene	13.771	252	302115	45.5844	ng	94
107) Benzo[a]pyrene	14.086	252	288954	49.3720	ng	91
108) Indeno[1,2,3-cd]pyrene	15.379	276	324168	44.3880	ng	79
109) Dibenzo[a,h]anthracene	15.395	278	262192	43.6824	ng	96
110) Benzo[g,h,i]perylene	15.727	276	258155	43.8039	ng	75

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M124277.D\data.ms
Quant QT Reviewed
SampleID : SMB108929(MS)
Data File: 5M124277.D
Acq On : 06/23/23 14:08
Operator : AH/JB
Sam Mult : 1 Vial# : 7
Misc : S,BNA
Qt Meth : 5M_0621.M
Qt On : 06/23/23 14:36
Qt Upd On: 06/21/23 15:50
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
1,3-Dichlorobenzene,T
1,4-Dichlorobenzene-d4,I
Time-->


Abundance
TIC: 5M124277.D\data.ms
Isophorone,P
4-Chloro-3-methylphenol,P
2-Methylnaphthalene,L
Caprolactam,P
Diethylphthalate,P
2,3,4,6-Tetrachlorophenol,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
2,4,6-Tribromophenol,S
Time-->


Abundance
TIC: 5M124277.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo(g,h,i)perylene,P
Time-->

Form3
Recovery Data Laboratory Limits
QC Batch: WMB108840

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M97644.D	AD38527-001(MS)	6/20/2023 5:49:00 PM
Non Spike(If applicable):	10M97643.D	AD38527-001	6/20/2023 5:27:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	37.416	1.6408	100	36	16	112
Pyridine	1	69.6636	0	100	70	10	131
N-Nitrosodimethylamine	1	46.3522	0	100	46	24	118
Benzaldehyde	1	44.2389	0	100	44	10	103
Aniline	1	85.798	0	100	86	10	149
Pentachloroethane	1	19.1451	0	100	19	10	155
bis(2-Chloroethyl)ether	1	71.7209	0	100	72	42	118
N-Decane	1	64.5003	0	100	65	25	129
1,3-Dichlorobenzene	1	67.1341	0	100	67	13	126
1,4-Dichlorobenzene	1	67.3183	0	100	67	13	133
1,2-Dichlorobenzene	1	68.0238	0	100	68	16	129
Benzyl alcohol	1	65.0244	0	100	65	33	150
bis(2-chloroisopropyl)ether	1	59.8135	0	100	60	28	119
Acetophenone	1	78.082	0	100	78	47	132
Hexachloroethane	1	66.3724	0	100	66	19	132
N-Nitroso-di-n-propylamine	1	78.2497	0	100	78	46	127
Nitrobenzene	1	76.3209	0	100	76	45	134
Isophorone	1	69.5016	0	100	70	48	121
bis(2-Chloroethoxy)methane	1	77.3127	0	100	77	47	131
1,2,4-Trichlorobenzene	1	75.8856	0	100	76	32	135
Naphthalene	**1**	**75.8049**	**0**	**100**	**76**	**12**	**146**
4-Chloroaniline	1	98.3132	0	100	98	10	161
Hexachlorobutadiene	1	73.9157	0	100	74	24	136
Caprolactam	1	28.632	0	100	29	10	155
2-Methylnaphthalene	**1**	**86.8277**	**0**	**100**	**87**	**34**	**156**
1-Methylnaphthalene	1	91.8868	0	100	92	44	149
1,1'-Biphenyl	1	84.5702	0	100	85	51	137
1,2,4,5-Tetrachlorobenzene	1	78.0465	0	100	78	52	131
Hexachlorocyclopentadiene	1	83.7309	0	100	84	24	137
2-Chloronaphthalene	1	79.4186	0	100	79	51	129
1,4-Dimethylnaphthalene	1	80.7951	0	100	81	50	137
Diphenyl Ether	1	82.0173	0	100	82	55	134
2-Nitroaniline	1	92.0346	0	100	92	45	165
Coumarin	1	11.8744	0	100	12	10	194
Acenaphthylene	**1**	**88.6202**	**0**	**100**	**89**	**46**	**130**
Dimethylphthalate	1	27.3548	0	100	27	10	177
2,6-Dinitrotoluene	1	85.5744	0	100	86	55	135
Acenaphthene	**1**	**82.5342**	**0**	**100**	**83**	**48**	**136**
3-Nitroaniline	1	97.9815	0	100	98	24	169
Dibenzofuran	1	90.1367	0	100	90	50	147
2,4-Dinitrotoluene	1	87.4697	0	100	87	55	136
Fluorene	**1**	**84.3551**	**0**	**100**	**84**	**53**	**132**
4-Chlorophenyl-phenylether	1	85.9235	0	100	86	58	133
Diethylphthalate	1	51.2665	0	100	51	25	152
4-Nitroaniline	1	96.0554	0	100	96	33	166
Atrazine	1	75.9411	0	100	76	21	152
n-Nitrosodiphenylamine	1	66.7046	0	100	67	44	112
1,2-Diphenylhydrazine	1	84.6821	0	100	85	53	140
4-Bromophenyl-phenylether	1	86.3212	0	100	86	60	139
Hexachlorobenzene	1	83.71	0	100	84	58	132
N-Octadecane	1	107.6432	0	100	108	53	157
Phenanthrene	**1**	**85.273**	**0**	**100**	**85**	**56**	**136**
Anthracene	**1**	**86.9951**	**0**	**100**	**87**	**59**	**131**
Carbazole	1	95.3959	0	100	95	53	149
Di-n-butylphthalate	1	97.2021	0	100	97	60	140
Fluoranthene	**1**	**89.9789**	**0**	**100**	**90**	**61**	**139**
Pyrene	**1**	**89.6376**	**0**	**100**	**90**	**58**	**133**
Benzidine	1	25.5158	0	100	26	10	43
Butylbenzylphthalate	1	96.6368	0	100	97	61	145
3,3'-Dichlorobenzidine	1	99.4363	0	100	99	10	145
Benzo[a]anthracene	**1**	**88.8905**	**0**	**100**	**89**	**56**	**122**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB108840

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chrysene	1	86.397	0	100	86	58	136
bis(2-Ethylhexyl)phthalate	1	93.5093	0	100	94	59	145
Di-n-octylphthalate	1	96.5161	0	100	97	57	147
Benzo[b]fluoranthene	1	99.5435	0	100	100	58	146
Benzo[k]fluoranthene	1	96.3616	0	100	96	57	140
Benzo[a]pyrene	1	98.9701	0	100	99	55	135
Indeno[1,2,3-cd]pyrene	1	91.021	0	100	91	59	147
Dibenzo[a,h]anthracene	1	93.2251	0	100	93	58	142
Benzo[g,h,i]perylene	1	86.9489	0	100	87	57	138

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB108840

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M97645.D	AD38527-001(MSD)	6/20/2023 6:12:00 PM
Non Spike(If applicable):	10M97643.D	AD38527-001	6/20/2023 5:27:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	38.401	1.6408	100	37	16	112
Pyridine	1	68.9828	0	100	69	10	131
N-Nitrosodimethylamine	1	45.1529	0	100	45	24	118
Benzaldehyde	1	44.3842	0	100	44	10	103
Aniline	1	83.7175	0	100	84	10	149
Pentachloroethane	1	18.0859	0	100	18	10	155
bis(2-Chloroethyl)ether	1	72.7332	0	100	73	42	118
N-Decane	1	64.9661	0	100	65	25	129
1,3-Dichlorobenzene	1	66.5696	0	100	67	13	126
1,4-Dichlorobenzene	1	66.3473	0	100	66	13	133
1,2-Dichlorobenzene	1	67.7437	0	100	68	16	129
Benzyl alcohol	1	63.9015	0	100	64	33	150
bis(2-chloroisopropyl)ether	1	60.3078	0	100	60	28	119
Acetophenone	1	78.2416	0	100	78	47	132
Hexachloroethane	1	66.7437	0	100	67	19	132
N-Nitroso-di-n-propylamine	1	78.1334	0	100	78	46	127
Nitrobenzene	1	75.5245	0	100	76	45	134
Isophorone	1	69.99	0	100	70	48	121
bis(2-Chloroethoxy)methane	1	78.2218	0	100	78	47	131
1,2,4-Trichlorobenzene	1	75.6509	0	100	76	32	135
Naphthalene	**1**	**73.0742**	**0**	**100**	**73**	**12**	**146**
4-Chloroaniline	1	96.5988	0	100	97	10	161
Hexachlorobutadiene	1	74.4869	0	100	74	24	136
Caprolactam	1	28.3891	0	100	28	10	155
2-Methylnaphthalene	**1**	**84.7328**	**0**	**100**	**85**	**34**	**156**
1-Methylnaphthalene	1	90.7407	0	100	91	44	149
1,1'-Biphenyl	1	83.8432	0	100	84	51	137
1,2,4,5-Tetrachlorobenzene	1	77.3766	0	100	77	52	131
Hexachlorocyclopentadiene	1	85.2688	0	100	85	24	137
2-Chloronaphthalene	1	79.3059	0	100	79	51	129
1,4-Dimethylnaphthalene	1	79.898	0	100	80	50	137
Diphenyl Ether	1	80.7776	0	100	81	55	134
2-Nitroaniline	1	90.2926	0	100	90	45	165
Coumarin	1	12.0475	0	100	12	10	194
Acenaphthylene	**1**	**88.2935**	**0**	**100**	**88**	**46**	**130**
Dimethylphthalate	1	33.4427	0	100	33	10	177
2,6-Dinitrotoluene	1	87.4691	0	100	87	55	135
Acenaphthene	**1**	**81.3851**	**0**	**100**	**81**	**48**	**136**
3-Nitroaniline	1	95.4833	0	100	95	24	169
Dibenzofuran	1	87.6276	0	100	88	50	147
2,4-Dinitrotoluene	1	87.793	0	100	88	55	136
Fluorene	**1**	**84.1215**	**0**	**100**	**84**	**53**	**132**
4-Chlorophenyl-phenylether	1	85.6636	0	100	86	58	133
Diethylphthalate	1	54.6001	0	100	55	25	152
4-Nitroaniline	1	95.0101	0	100	95	33	166
Atrazine	1	73.2596	0	100	73	21	152
n-Nitrosodiphenylamine	1	66.9803	0	100	67	44	112
1,2-Diphenylhydrazine	1	84.5621	0	100	85	53	140
4-Bromophenyl-phenylether	1	86.9775	0	100	87	60	139
Hexachlorobenzene	1	83.7053	0	100	84	58	132
N-Octadecane	1	106.7352	0	100	107	53	157
Phenanthrene	**1**	**84.8283**	**0**	**100**	**85**	**56**	**136**
Anthracene	**1**	**86.9712**	**0**	**100**	**87**	**59**	**131**
Carbazole	1	93.7706	0	100	94	58	136
Di-n-butylphthalate	1	98.316	0	100	98	60	140
Fluoranthene	**1**	**89.8236**	**0**	**100**	**90**	**61**	**139**
Pyrene	**1**	**89.6565**	**0**	**100**	**90**	**58**	**133**
Benzidine	1	25.2014	0	100	25	10	43
Butylbenzylphthalate	1	96.3692	0	100	96	61	145
3,3'-Dichlorobenzidine	1	101.1883	0	100	101	10	145
Benzo[a]anthracene	**1**	**88.1058**	**0**	**100**	**88**	**56**	**122**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB108840

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chrysene	1	84.8286	0	100	85	58	136
bis(2-Ethylhexyl)phthalate	1	93.3845	0	100	93	59	145
Di-n-octylphthalate	1	97.6807	0	100	98	57	147
Benzo[b]fluoranthene	1	99.7326	0	100	100	58	146
Benzo[k]fluoranthene	1	96.6502	0	100	97	57	140
Benzo[a]pyrene	1	98.2627	0	100	98	55	135
Indeno[1,2,3-cd]pyrene	1	90.9266	0	100	91	59	147
Dibenzo[a,h]anthracene	1	92.4113	0	100	92	58	142
Benzo[g,h,i]perylene	1	86.6206	0	100	87	57	138

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: WMB108840

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M97645.D	AD38527-001(MSD)	6/20/2023 6:12:00 PM
Duplicate(If applicable):	10M97644.D	AD38527-001(MS)	6/20/2023 5:49:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
1,4-Dioxane	1	38.401	37.416	2.6	58
Pyridine	1	68.9828	69.6636	0.98	143
N-Nitrosodimethylamine	1	45.1529	46.3522	2.6	40
Benzaldehyde	1	44.3842	44.2389	0.33	92
Aniline	1	83.7175	85.798	2.5	138
Pentachloroethane	1	18.0859	19.1451	5.7	79
bis(2-Chloroethyl)ether	1	72.7332	71.7209	1.4	42
N-Decane	1	64.9661	64.5003	0.72	59
1,3-Dichlorobenzene	1	66.5696	67.1341	0.84	90
1,4-Dichlorobenzene	1	66.3473	67.3183	1.5	88
1,2-Dichlorobenzene	1	67.7437	68.0238	0.41	74
Benzyl alcohol	1	63.9015	65.0244	1.7	35
bis(2-chloroisopropyl)ether	1	60.3078	59.8135	0.82	48
Acetophenone	1	78.2416	78.082	0.2	30
Hexachloroethane	1	66.7437	66.3724	0.56	88
N-Nitroso-di-n-propylamine	1	78.1334	78.2497	0.15	56
Nitrobenzene	1	75.5245	76.3209	1	38
Isophorone	1	69.99	69.5016	0.7	35
bis(2-Chloroethoxy)methane	1	78.2218	77.3127	1.2	44
1,2,4-Trichlorobenzene	1	75.6509	75.8856	0.31	50
Naphthalene	**1**	**73.0742**	**75.8049**	**3.7**	**47**
4-Chloroaniline	1	96.5988	98.3132	1.8	85
Hexachlorobutadiene	1	74.4869	73.9157	0.77	58
Caprolactam	1	28.3891	28.632	0.85	33
2-Methylnaphthalene	**1**	**84.7328**	**86.8277**	**2.4**	**38**
1-Methylnaphthalene	1	90.7407	91.8868	1.3	32
1,1'-Biphenyl	1	83.8432	84.5702	0.86	31
1,2,4,5-Tetrachlorobenzene	1	77.3766	78.0465	0.86	32
Hexachlorocyclopentadiene	1	85.2688	83.7309	1.8	48
2-Chloronaphthalene	1	79.3059	79.4186	0.14	35
1,4-Dimethylnaphthalene	1	79.898	80.7951	1.1	31
Diphenyl Ether	1	80.7776	82.0173	1.5	32
2-Nitroaniline	1	90.2926	92.0346	1.9	37
Coumarin	1	12.0475	11.8744	1.4	97
Acenaphthylene	**1**	**88.2935**	**88.6202**	**0.37**	**41**
Dimethylphthalate	1	33.4427	27.3548	20	108
2,6-Dinitrotoluene	1	87.4691	85.5744	2.2	35
Acenaphthene	**1**	**81.3851**	**82.5342**	**1.4**	**35**
3-Nitroaniline	1	95.4833	97.9815	2.6	64
Dibenzofuran	1	87.6276	90.1367	2.8	36
2,4-Dinitrotoluene	1	87.793	87.4697	0.37	35
Fluorene	**1**	**84.1215**	**84.3551**	**0.28**	**34**
4-Chlorophenyl-phenylether	1	85.6636	85.9235	0.3	33
Diethylphthalate	1	54.6001	51.2665	6.3	37
4-Nitroaniline	1	95.0101	96.0554	1.1	35
Atrazine	1	73.2596	75.9411	3.6	47
n-Nitrosodiphenylamine	1	66.9803	66.7046	0.41	37
1,2-Diphenylhydrazine	1	84.5621	84.6821	0.14	36
4-Bromophenyl-phenylether	1	86.9775	86.3212	0.76	34
Hexachlorobenzene	1	83.7053	83.71	0.01	34
N-Octadecane	1	106.7352	107.6432	0.85	31
Phenanthrene	**1**	**84.8283**	**85.273**	**0.52**	**33**
Anthracene	**1**	**86.9712**	**86.9951**	**0.03**	**34**
Carbazole	1	93.7706	95.3959	1.7	32
Di-n-butylphthalate	1	98.316	97.2021	1.1	34
Fluoranthene	**1**	**89.8236**	**89.9789**	**0.17**	**34**
Pyrene	**1**	**89.6565**	**89.6376**	**0.02**	**33**
Benzidine	1	25.2014	25.5158	1.2	213
Butylbenzylphthalate	1	96.3692	96.6368	0.28	34
3,3'-Dichlorobenzidine	1	101.1883	99.4363	1.7	126
Benzo[a]anthracene	**1**	**88.1058**	**88.8905**	**0.89**	**33**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: WMB108840

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chrysene	**1**	**84.8286**	**86.397**	**1.8**	**32**
bis(2-Ethylhexyl)phthalate	1	93.3845	93.5093	0.13	33
Di-n-octylphthalate	1	97.6807	96.5161	1.2	36
Benzo[b]fluoranthene	**1**	**99.7326**	**99.5435**	**0.19**	**36**
Benzo[k]fluoranthene	**1**	**96.6502**	**96.3616**	**0.3**	**20**
Benzo[a]pyrene	**1**	**98.2627**	**98.9701**	**0.72**	**35**
Indeno[1,2,3-cd]pyrene	**1**	**90.9266**	**91.021**	**0.1**	**35**
Dibenzo[a,h]anthracene	**1**	**92.4113**	**93.2251**	**0.88**	**35**
Benzo[g,h,i]perylene	**1**	**86.6206**	**86.9489**	**0.38**	**35**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

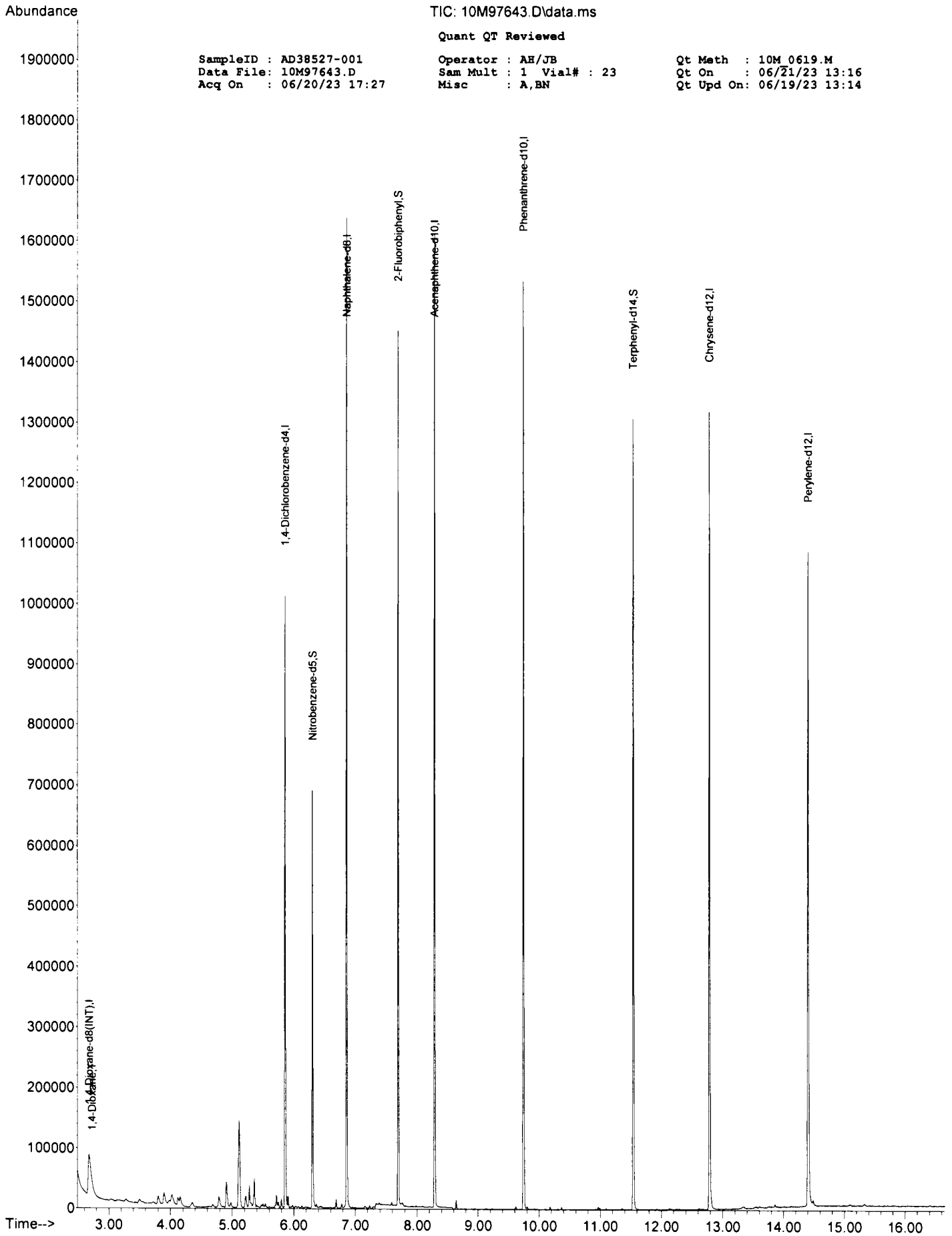
Quantitation Report (QT Reviewed)

SampleID : AD38527-001 Operator : AH/JB Qt Meth : 10M_0619.M
Data File: 10M97643.D Sam Mult : 1 Vial# : 23 Qt On : 06/21/23 13:16
Acq On : 06/20/23 17:27 Misc : A,BN Qt Upd On: 06/19/23 13:14

Data Path : G:\GcMsData\2023\GCMS_10\Data\06-2023\
Qt Path : G:\GCMSDATA\2023\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.679	96	89094	40.00	ng	-0.01
21) 1,4-Dichlorobenzene-d4	5.862	152	160064	40.00	ng	0.00
31) Naphthalene-d8	6.862	136	624022	40.00	ng	0.00
50) Acenaphthene-d10	8.285	164	342617	40.00	ng	0.00
77) Phenanthrene-d10	9.745	188	569935	40.00	ng	0.00
91) Chrysene-d12	12.788	240	471152	40.00	ng	0.00
103) Perylene-d12	14.409	264	446926	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	0.000	112	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
16) Phenol-d5	0.000	99	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
32) Nitrobenzene-d5	6.306	128	86579	34.43	ng	0.00
Spiked Amount 50.000			Recovery =	68.86%		
55) 2-Fluorobiphenyl	7.696	172	393341	33.72	ng	0.00
Spiked Amount 50.000			Recovery =	67.44%		
80) 2,4,6-Tribromophenol	0.000	330	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
94) Terphenyl-d14	11.542	244	391172	43.12	ng	0.00
Spiked Amount 50.000			Recovery =	86.24%		
Target Compounds						Qvalue
8) 1,4-Dioxane	2.728	88	4019m	1.6408	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M97643.D\data.ms
Quant QT Reviewed
SampleID : AD38527-001
Data File: 10M97643.D
Acq On : 06/20/23 17:27
Operator : AH/JB
Sam Mult : 1 Vial# : 23
Misc : A,BN
Qt Meth : 10M_0619.M
Qt On : 06/21/23 13:16
Qt Upd On: 06/19/23 13:14
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
1,4-Dichlorobenzene-d8(INT),I
Time-->

Quantitation Report (QT Reviewed)

SampleID : AD38527-001(MS) Operator : AH/JB Qt Meth : 10M_0619.M
Data File: 10M97644.D Sam Mult : 1 Vial# : 24 Qt On : 06/21/23 13:17
Acq On : 06/20/23 17:49 Misc : A,BN Qt Upd On: 06/19/23 13:14

Data Path : G:\GcMsData\2023\GCMS_10\Data\06-2023\
Qt Path : G:\GCMSDATA\2023\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.679	96	87114	40.00	ng	-0.01
21) 1,4-Dichlorobenzene-d4	5.862	152	154640	40.00	ng	0.00
31) Naphthalene-d8	6.862	136	599692	40.00	ng	0.00
50) Acenaphthene-d10	8.290	164	334870	40.00	ng	0.00
77) Phenanthrene-d10	9.750	188	561738	40.00	ng	0.00
91) Chrysene-d12	12.799	240	477600	40.00	ng	0.00
103) Perylene-d12	14.409	264	450551	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	0.000	112	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
16) Phenol-d5	0.000	99	0d	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
32) Nitrobenzene-d5	6.306	128	94930	39.29	ng	0.00
Spiked Amount 50.000			Recovery =	78.58%		
55) 2-Fluorobiphenyl	7.696	172	415778	36.47	ng	0.00
Spiked Amount 50.000			Recovery =	72.94%		
80) 2,4,6-Tribromophenol	0.000	330	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
94) Terphenyl-d14	11.542	244	444295	48.31	ng	0.00
Spiked Amount 50.000			Recovery =	96.62%		
Target Compounds						Qvalue
8) 1,4-Dioxane	2.717	88	89613	37.4160	ng	72
9) Pyridine	3.177	79	291899	69.6636	ng	76
10) N-Nitrosodimethylamine	3.129	74	155698	46.3522	ng	81
12) Benzaldehyde	5.493	77	180737	44.2389	ng	77
13) Aniline	5.584	93	628116	85.7980	ng	37
14) Pentachloroethane	5.627	117	37608	19.1451	ng	85
15) bis(2-Chloroethyl)ether	5.637	93	384605	71.7209	ng	82
19) N-Decane	5.723	57	395907	64.5003	ng	95
20) 1,3-Dichlorobenzene	5.814	146	387666	67.1341	ng	97
22) 1,4-Dichlorobenzene	5.878	146	407366	67.3183	ng	97
23) 1,2-Dichlorobenzene	6.001	146	387423	68.0238	ng	99
24) Benzyl alcohol	5.974	108	235140	65.0244	ng	70
25) bis(2-chloroisopropyl)...	6.081	45	460629	59.8135	ng	95
27) Acetophenone	6.188	105	573480	78.0820	ng	58
28) Hexachloroethane	6.274	117	153404	66.3724	ng	85
29) N-Nitroso-di-n-propyla...	6.183	70	285461	78.2497	ng	74
33) Nitrobenzene	6.322	77	417318	76.3209	ng	82
34) Isophorone	6.504	82	699224	69.5016	ng	87
38) bis(2-Chloroethoxy)met...	6.664	93	480066	77.3127	ng	97
40) 1,2,4-Trichlorobenzene	6.814	180	342465	75.8856	ng	99
41) Naphthalene	6.878	128	1217413	75.8049	ng	99
42) 4-Chloroaniline	6.916	127	543472m	98.3132	ng	
43) Hexachlorobutadiene	6.969	225	171294	73.9157	ng	97
44) Caprolactam	7.162	113	50441	28.6320	ng	69
46) 2-Methylnaphthalene	7.413	142	899904	86.8277	ng	99
47) 1-Methylnaphthalene	7.493	142	904924	91.8868	ng	95
48) Methylnaphthalenes (To...	7.413	142	1805652m	179.5861	ng	
49) 1,1'-Biphenyl	7.787	154	1079845	84.5702	ng	95
51) 1,2,4,5-Tetrachloroben...	7.547	216	360743	78.0465	ng	98
52) Hexachlorocyclopentadiene	7.536	237	164074	83.7309	ng	99
56) 2-Chloronaphthalene	7.809	162	772226	79.4186	ng	93
57) 1,4-Dimethylnaphthalene	8.087	156	650751	80.7951	ng	91
58) Dimethylnaphthalenes (...	8.087	156	650751	80.7951	ng	91
59) Diphenyl Ether	7.868	170	592511	82.0173	ng	79
60) 2-Nitroaniline	7.889	65	316303	92.0346	ng	50
61) Coumarin	8.071	146	48191m	11.8744	ng	
62) Acenaphthylene	8.167	152	1241269	88.6202	ng	99
63) Dimethylphthalate	8.028	163	290867	27.3548	ng	94
64) 2,6-Dinitrotoluene	8.087	165	200674	85.5744	ng	63
65) Acenaphthene	8.322	153	795612	82.5342	ng	98
66) 3-Nitroaniline	8.242	138	268658	97.9815	ng	71
68) Dibenzofuran	8.472	168	1246484	90.1367	ng	88
69) 2,4-Dinitrotoluene	8.445	165	280346	87.4697	ng	67
72) Fluorene	8.798	166	948020	84.3551	ng	99
73) 4-Chlorophenyl-phenyle...	8.782	204	440673	85.9235	ng	86
74) Diethylphthalate	8.659	149	537658	51.2665	ng	96
75) 4-Nitroaniline	8.804	138	287109	96.0554	ng	73
76) Atrazine	9.424	200	234910	75.9411	ng	98
79) n-Nitrosodiphenylamine	8.895	169	643794	66.7046	ng	98
81) 1,2-Diphenylhydrazine	8.937	77	998013	84.6821	ng	84
82) 4-Bromophenyl-phenylether	9.269	248	246202	86.3212	ng	88

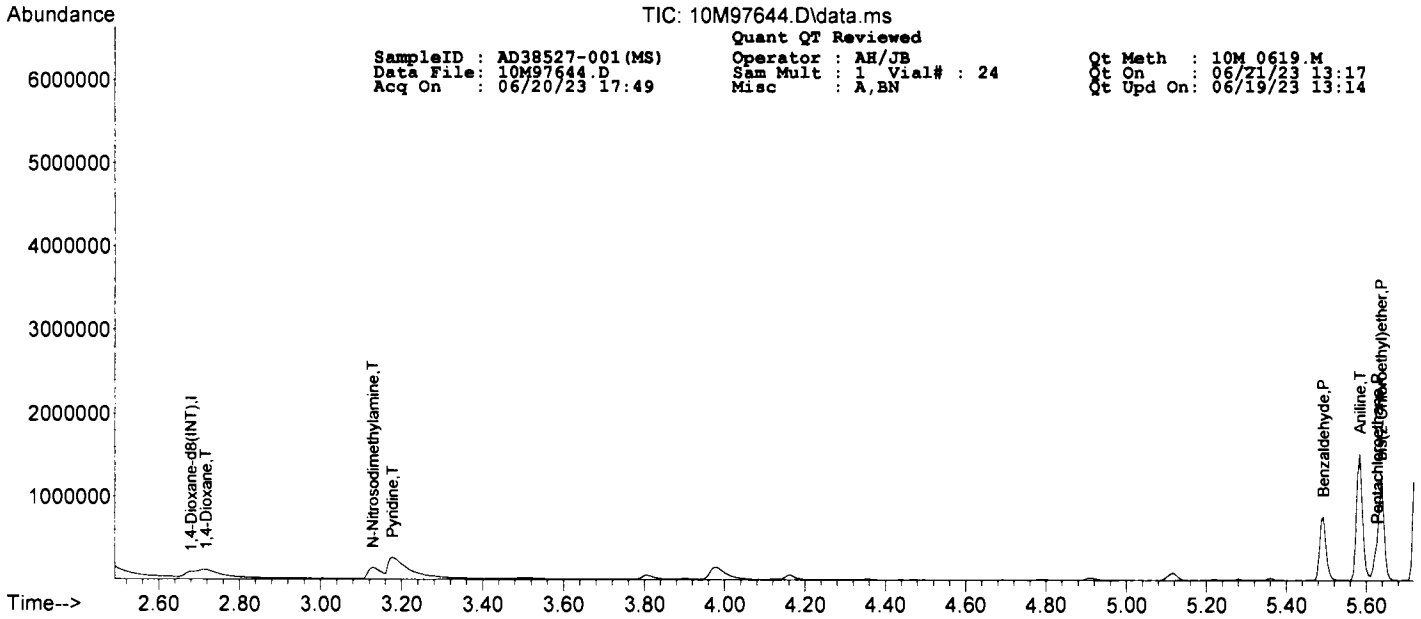
Quantitation Report (QT Reviewed)

SampleID : AD38527-001(MS) Operator : AH/JB Qt Meth : 10M_0619.M
Data File: 10M97644.D Sam Mult : 1 Vial# : 24 Qt On : 06/21/23 13:17
Acq On : 06/20/23 17:49 Misc : A,BN Qt Upd On: 06/19/23 13:14

Data Path : G:\GcMsData\2023\GCMS_10\Data\06-2023\
Qt Path : G:\GCMSDATA\2023\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
83) Hexachlorobenzene	9.344	284	247438	83.7100	ng	68
84) N-Octadecane	9.601	57	651474	107.6432	ng	77
86) Phenanthrene	9.777	178	1349632	85.2730	ng	100
87) Anthracene	9.831	178	1391852	86.9951	ng	99
88) Carbazole	9.996	167	1455434	95.3959	ng	98
89) Di-n-butylphthalate	10.371	149	1616048	97.2021	ng	98
90) Fluoranthene	11.104	202	1447340	89.9789	ng	96
92) Pyrene	11.371	202	1479146	89.6376	ng	87
93) Benzidine	11.253	184	216389	25.5158	ng	86
97) Butylbenzylphthalate	12.130	149	687411	96.6368	ng	73
99) 3,3'-Dichlorobenzidine	12.756	252	476120	99.4363	ng	96
100) Benzo[a]anthracene	12.783	228	1316539	88.8905	ng	99
101) Chrysene	12.831	228	1224959	86.3970	ng	100
102) bis(2-Ethylhexyl)phtha...	12.820	149	932727	93.5093	ng	89
104) Di-n-octylphthalate	13.564	149	1550108	96.5161	ng	100
105) Benzo[b]fluoranthene	13.997	252	1347279	99.5435	ng	94
106) Benzo[k]fluoranthene	14.029	252	1322084	96.3616	ng	93
107) Benzo[a]pyrene	14.356	252	1192373	98.9701	ng	91
108) Indeno[1,2,3-cd]pyrene	15.746	276	1351995	91.0210	ng	92
109) Dibenzo[a,h]anthracene	15.762	278	1153974	93.2251	ng	91
110) Benzo[g,h,i]perylene	16.126	276	1061945	86.9489	ng	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed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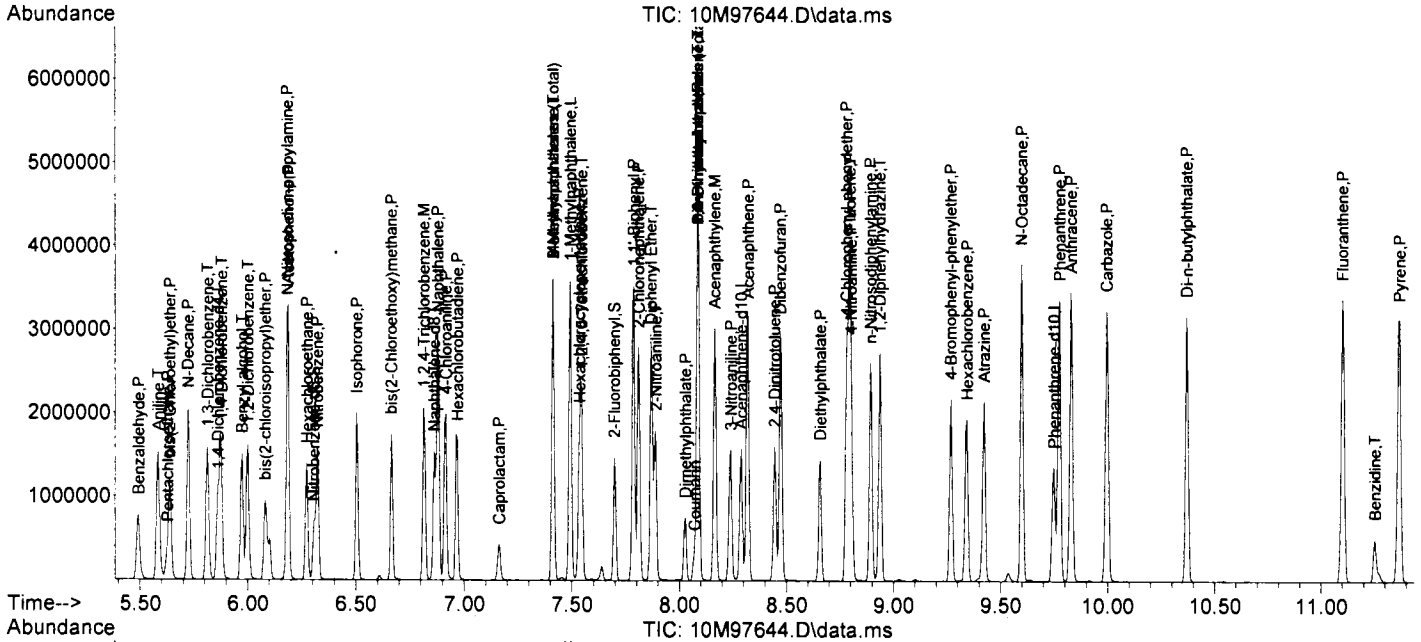
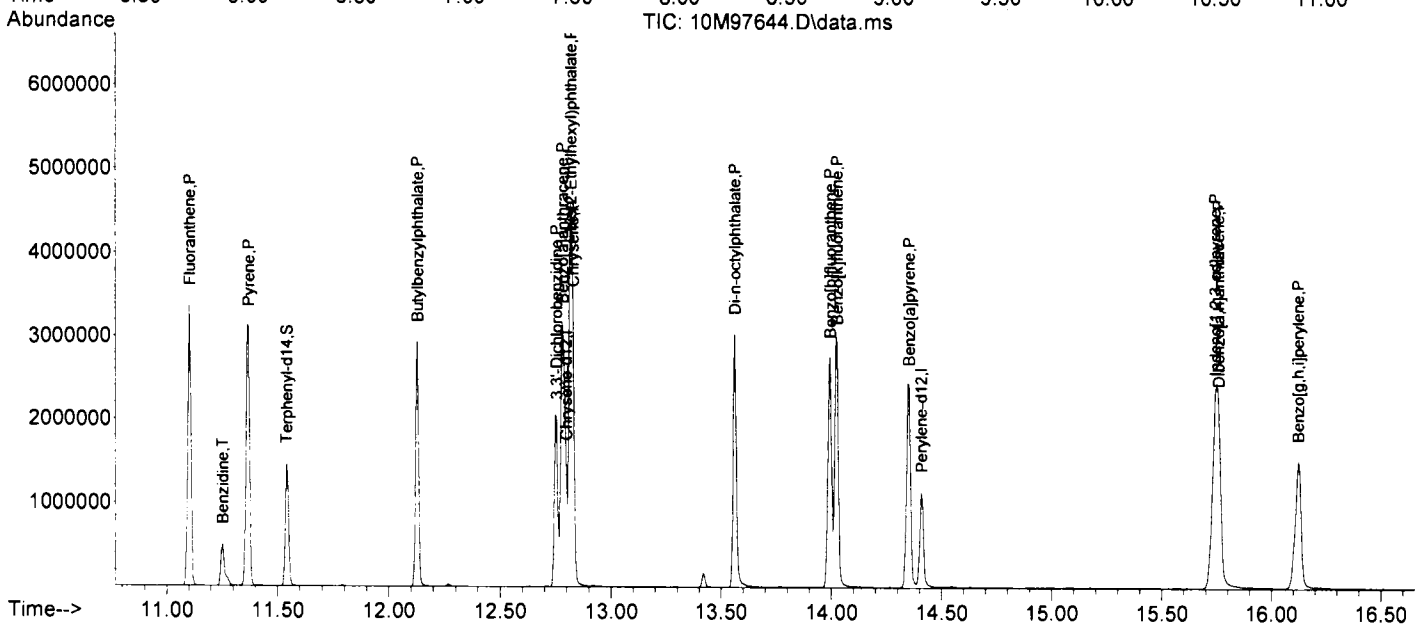
Quant QT Reviewed
SampleID : AD38527-001(MS)
Data File: 10M97644.D
Acq On : 06/20/23 17:49
Operator : AH/JB
Sam Mult : 1 Vial# : 24
Misc : A,BN
Qt Meth : 10M_0619.M
Qt On : 06/21/23 13:17
Qt Upd On: 06/19/23 13:14
1,4-Dioxane-dB(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
Benzaldehyde,P
Aniline,T
Time-->


Abundance
TIC: 10M97644.D\data.ms
Benzaldehyde,P
Caprolactam,P
Isophorone,P
bis(2-Chloroethoxy)methane,P
2-Fluorobiphenyl,S
Dimethylphthalate,P
Acenaphthylene,M
Acenaphthene,P
Dibenzofuran,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 10M97644.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : AD38527-001(MSD) Operator : AH/JB Qt Meth : 10M_0619.M
Data File: 10M97645.D Sam Mult : 1 Vial# : 25 Qt On : 06/21/23 13:24
Acq On : 06/20/23 18:12 Misc : A,BN Qt Upd On: 06/19/23 13:14

Data Path : G:\GcMsData\2023\GCMS_10\Data\06-2023\
Qt Path : G:\GCMSDATA\2023\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.685	96	91647	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.862	152	161311	40.00	ng	0.00
31) Naphthalene-d8	6.862	136	624811	40.00	ng	0.00
50) Acenaphthene-d10	8.290	164	347529	40.00	ng	0.00
77) Phenanthrene-d10	9.750	188	581735	40.00	ng	0.00
91) Chrysene-d12	12.799	240	493734	40.00	ng	0.00
103) Perylene-d12	14.409	264	462381	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	0.000	112	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
16) Phenol-d5	0.000	99	0d	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
32) Nitrobenzene-d5	6.306	128	100103	39.76	ng	0.00
Spiked Amount 50.000			Recovery =	79.52%		
55) 2-Fluorobiphenyl	7.696	172	407465	34.44	ng	0.00
Spiked Amount 50.000			Recovery =	68.88%		
80) 2,4,6-Tribromophenol	0.000	330	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
94) Terphenyl-d14	11.542	244	446937	47.01	ng	0.00
Spiked Amount 50.000			Recovery =	94.02%		
Target Compounds						Qvalue
8) 1,4-Dioxane	2.722	88	96758m	38.4010	ng	
9) Pyridine	3.177	79	304087	68.9828	ng	75
10) N-Nitrosodimethylamine	3.129	74	159562	45.1529	ng	82
12) Benzaldehyde	5.493	77	190766	44.3842	ng	75
13) Aniline	5.584	93	644777	83.7175	ng	37
14) Pentachloroethane	5.627	117	37376	18.0859	ng	82
15) bis(2-Chloroethyl)ether	5.637	93	410329	72.7332	ng	81
19) N-Decane	5.723	57	419516	64.9661	ng	95
20) 1,3-Dichlorobenzene	5.814	146	404409	66.5696	ng	97
22) 1,4-Dichlorobenzene	5.878	146	418810	66.3473	ng	98
23) 1,2-Dichlorobenzene	6.001	146	402472	67.7437	ng	98
24) Benzyl alcohol	5.974	108	241048	63.9015	ng	71
25) bis(2-chloroisopropyl)...	6.081	45	484471	60.3078	ng	95
27) Acetophenone	6.188	105	599442	78.2416	ng	58
28) Hexachloroethane	6.274	117	160917	66.7437	ng	85
29) N-Nitroso-di-n-propyla...	6.188	70	297333	78.1334	ng	70
33) Nitrobenzene	6.322	77	430261	75.5245	ng	81
34) Isophorone	6.504	82	733631	69.9900	ng	88
38) bis(2-Chloroethoxy)met...	6.664	93	506056	78.2218	ng	97
40) 1,2,4-Trichlorobenzene	6.814	180	355706	75.6509	ng	99
41) Naphthalene	6.878	128	1222715	73.0742	ng	99
42) 4-Chloroaniline	6.916	127	556362m	96.5988	ng	
43) Hexachlorobutadiene	6.969	225	179848	74.4869	ng	97
44) Caprolactam	7.162	113	52108	28.3891	ng	71
46) 2-Methylnaphthalene	7.413	142	914976	84.7328	ng	99
47) 1-Methylnaphthalene	7.493	142	931069	90.7407	ng	95
48) Methylnaphthalenes (To...	7.413	142	1849252m	176.5283	ng	
49) 1,1'-Biphenyl	7.787	154	1115404	83.8432	ng	94
51) 1,2,4,5-Tetrachloroben...	7.547	216	371167	77.3766	ng	99
52) Hexachlorocyclopentadiene	7.536	237	173404	85.2688	ng	99
56) 2-Chloronaphthalene	7.809	162	800281	79.3059	ng	92
57) 1,4-Dimethylnaphthalene	8.092	156	667853	79.8980	ng	89
58) Dimethylnaphthalenes (...	8.092	156	667853	79.8980	ng	89
59) Diphenyl Ether	7.868	170	605615	80.7776	ng	80
60) 2-Nitroaniline	7.889	65	322047	90.2926	ng	50
61) Coumarin	8.071	146	50742m	12.0475	ng	
62) Acenaphthylene	8.167	152	1283444	88.2935	ng	99
63) Dimethylphthalate	8.028	163	369042	33.4427	ng	94
64) 2,6-Dinitrotoluene	8.087	165	212871	87.4691	ng	63
65) Acenaphthene	8.322	153	814193	81.3851	ng	99
66) 3-Nitroaniline	8.242	138	271705	95.4833	ng	74
68) Dibenzofuran	8.472	168	1257594	87.6276	ng	87
69) 2,4-Dinitrotoluene	8.445	165	292019	87.7930	ng	68
72) Fluorene	8.798	166	981133	84.1215	ng	99
73) 4-Chlorophenyl-phenyle...	8.782	204	455948	85.6636	ng	87
74) Diethylphthalate	8.659	149	594266	54.6001	ng	96
75) 4-Nitroaniline	8.804	138	294720	95.0101	ng	72
76) Atrazine	9.424	200	235182	73.2596	ng	98
79) n-Nitrosodiphenylamine	8.895	169	669468	66.9803	ng	98
81) 1,2-Diphenylhydrazine	8.937	77	1032076	84.5621	ng	84
82) 4-Bromophenyl-phenylether	9.269	248	256905	86.9775	ng	88

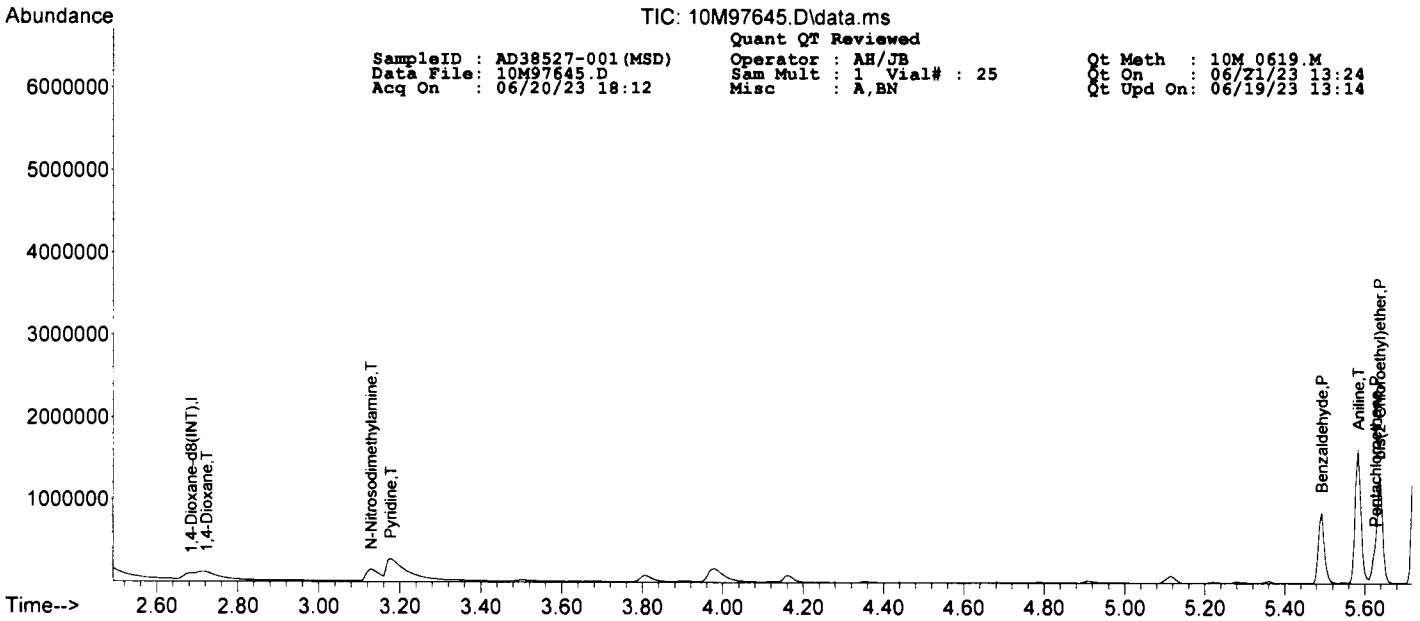
Quantitation Report (QT Reviewed)

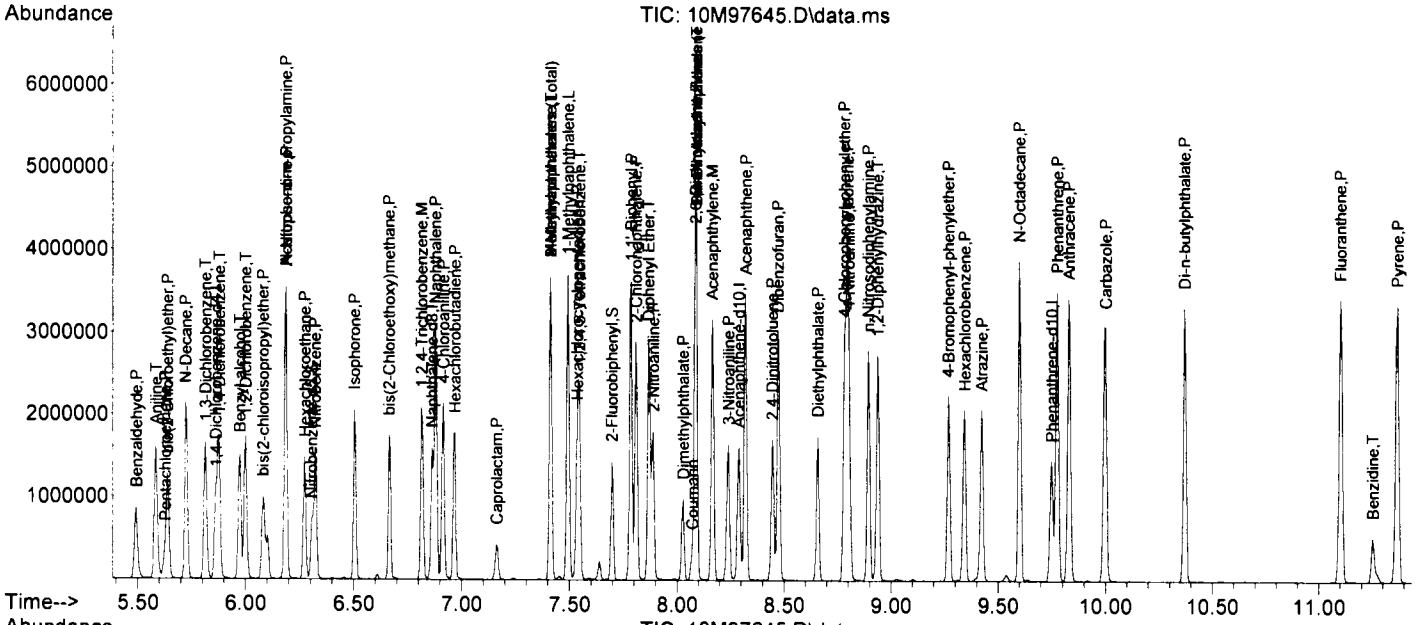
SampleID : AD38527-001(MSD) Operator : AH/JB Qt Meth : 10M_0619.M
Data File: 10M97645.D Sam Mult : 1 Vial# : 25 Qt On : 06/21/23 13:24
Acq On : 06/20/23 18:12 Misc : A,BN Qt Upd On: 06/19/23 13:14

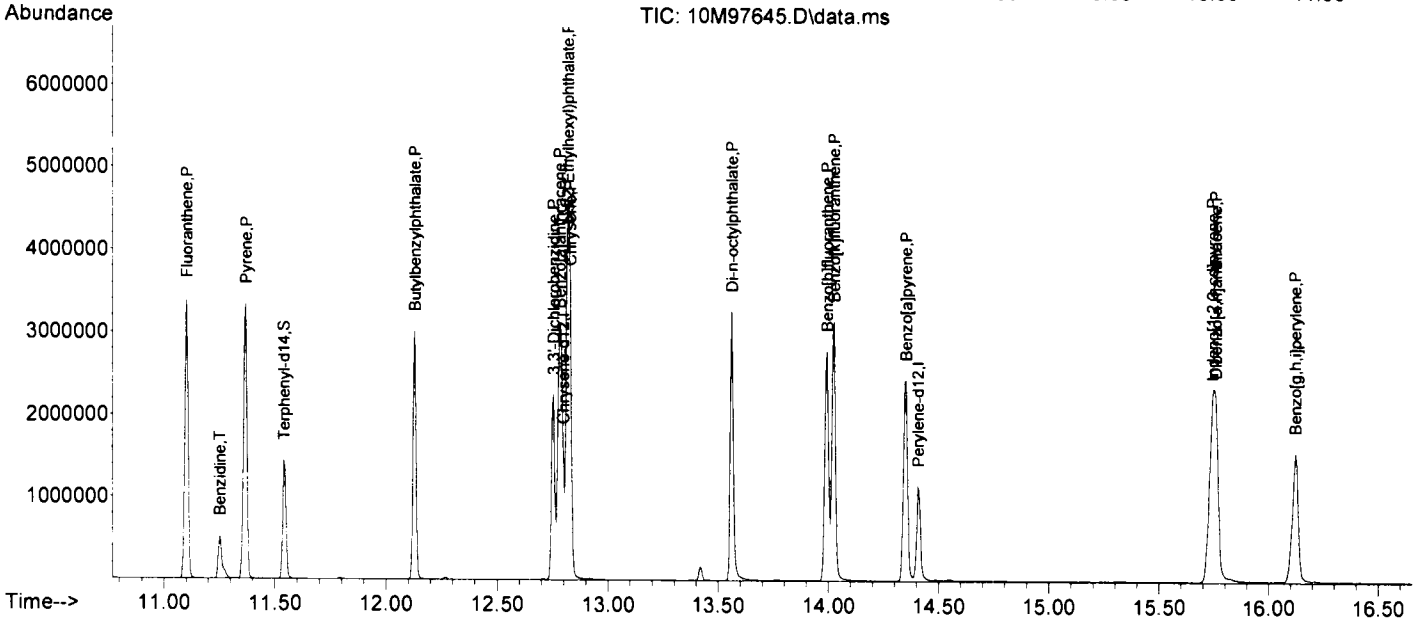
Data Path : G:\GcMsData\2023\GCMS_10\Data\06-2023\
Qt Path : G:\GCMSDATA\2023\GCMS_10\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
83)	Hexachlorobenzene	9.344	284	256232	83.7053	ng	68
84)	N-Octadecane	9.601	57	668974	106.7352	ng	77
86)	Phenanthrene	9.777	178	1390389	84.8283	ng	99
87)	Anthracene	9.831	178	1441003	86.9712	ng	99
88)	Carbazole	10.002	167	1481565	93.7706	ng	98
89)	Di-n-butylphthalate	10.371	149	1692755	98.3160	ng	98
90)	Fluoranthene	11.104	202	1496276	89.8236	ng	96
92)	Pyrene	11.371	202	1529437	89.6565	ng	89
93)	Benzidine	11.253	184	220943	25.2014	ng	89
97)	Butylbenzylphthalate	12.130	149	708665	96.3692	ng	74
99)	3,3'-Dichlorobenzidine	12.756	252	500876	101.1883	ng	97
100)	Benzo[a]anthracene	12.783	228	1349000	88.1058	ng	99
101)	Chrysene	12.831	228	1243352	84.8286	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.820	149	962949	93.3845	ng	90
104)	Di-n-octylphthalate	13.564	149	1610003	97.6807	ng	100
105)	Benzo[b]fluoranthene	13.997	252	1385281	99.7326	ng	93
106)	Benzo[k]fluoranthene	14.029	252	1360861	96.6502	ng	94
107)	Benzo[a]pyrene	14.355	252	1214934	98.2627	ng	92
108)	Indeno[1,2,3-cd]pyrene	15.746	276	1386055	90.9266	ng	90
109)	Dibenzo[a,h]anthracene	15.762	278	1173935	92.4113	ng	92
110)	Benzo[g,h,i]perylene	16.126	276	1085714	86.6206	ng	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M97645.D\data.ms
Quant QT Reviewed
SampleID : AD38527-001(MSD)
Data File: 10M97645.D
Acq On : 06/20/23 18:12
Operator : AH/JB
Sam Mult : 1 Vial# : 25
Misc : A,BN
Qt Meth : 10M_0619.M
Qt On : 06/21/23 13:24
Qt Upd On: 06/19/23 13:14
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
Benzaldehyde,P
Aniline,T
Time-->


Abundance
TIC: 10M97645.D\data.ms
Benzaldehyde,P
Isophorone,P
bis(2-Chloroethoxy)methane,P
Caprolactam,P
2-Fluorobiphenyl,S
Dimethylphthalate,P
Acenaphthylene,M
Acenaphthene,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 10M97645.D\data.ms
Benzidine,T
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Form3
Recovery Data Laboratory Limits
QC Batch: SMB108929

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M129516.D	AD38586-007(MS:AD38586-001	6/26/2023 9:57:00 AM
Non Spike(If applicable):	7M129515.D	AD38586-001	6/26/2023 9:34:00 AM
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	11.7553	0	50	24	10	60
Pyridine	1	27.7344	0	50	55	13	107
N-Nitrosodimethylamine	1	33.5856	0	50	67	30	100
Benzaldehyde	1	26.2142	0	50	52	10	121
Aniline	1	13.4379	0	50	27	10	96
Pentachloroethane	1	36.4555	0	50	73	19	125
bis(2-Chloroethyl)ether	1	38.1076	0	50	76	28	120
Phenol	1	72.1214	0	100	72	32	119
2-Chlorophenol	1	76.9564	0	100	77	33	124
N-Decane	1	28.2997	0	50	57	10	142
1,3-Dichlorobenzene	1	36.664	0	50	73	32	105
1,4-Dichlorobenzene	1	35.4118	0	50	71	37	100
1,2-Dichlorobenzene	1	35.9168	0	50	72	29	108
Benzyl alcohol	1	38.4585	0	50	77	37	119
bis(2-chloroisopropyl)ether	1	25.2566	0	50	51	20	110
2-Methylphenol	1	70.2484	0	100	70	38	114
Acetophenone	1	37.8942	0	50	76	11	152
Hexachloroethane	1	34.2633	0	50	69	10	130
N-Nitroso-di-n-propylamine	1	36.1243	0	50	72	10	151
3&4-Methylphenol	1	71.3934	0	100	71	36	127
Nitrobenzene	1	39.9778	0	50	80	20	142
Isophorone	1	33.8541	0	50	68	10	164
2-Nitrophenol	1	74.2001	0	100	74	16	146
2,4-Dimethylphenol	1	71.2482	0	100	71	15	150
Benzoic Acid	1	81.2034	0	100	81	10	182
bis(2-Chloroethoxy)methane	1	38.1485	0	50	76	26	131
2,4-Dichlorophenol	1	76.8376	0	100	77	20	146
1,2,4-Trichlorobenzene	1	38.8168	0	50	78	33	121
Naphthalene	1	39.4636	3.3781	50	72	10	153
4-Chloroaniline	1	19.6013	0	50	39	10	112
Hexachlorobutadiene	1	38.3036	0	50	77	32	113
Caprolactam	1	36.6021	0	50	73	10	174
4-Chloro-3-methylphenol	1	77.5374	0	100	78	32	138
2-Methylnaphthalene	1	43.2536	2.5017	50	82	11	153
1-Methylnaphthalene	1	43.2661	0	50	87	10	180
1,1'-Biphenyl	1	36.8744	0	50	74	18	148
1,2,4,5-Tetrachlorobenzene	1	40.4282	0	50	81	31	124
Hexachlorocyclopentadiene	1	2.0277	0	50	4.1*	10	103
2,4,6-Trichlorophenol	1	79.0867	0	100	79	32	137
2,4,5-Trichlorophenol	1	78.3542	0	100	78	36	131
2-Chloronaphthalene	1	42.2866	0	50	85	41	115
1,4-Dimethylnaphthalene	1	41.2261	0	50	82	10	205
Diphenyl Ether	1	39.9406	0	50	80	31	127
2-Nitroaniline	1	37.7009	0	50	75	32	142
Coumarin	1	41.599	0	50	83	14	160
Acenaphthylene	1	45.9112	2.3292	50	87	26	133
Dimethylphthalate	1	42.255	0	50	85	40	120
2,6-Dinitrotoluene	1	42.8929	0	50	86	18	148
Acenaphthene	1	42.6006	0	50	85	11	158
3-Nitroaniline	1	29.3686	0	50	59	14	137
2,4-Dinitrophenol	1	21.7827	0	100	22	10	128
Dibenzofuran	1	45.455	2.2958	50	86	10	170
2,4-Dinitrotoluene	1	41.7892	0	50	84	10	173
4-Nitrophenol	1	80.6937	0	100	81	23	140
2,3,4,6-Tetrachlorophenol	1	68.2667	0	100	68	26	127
Fluorene	1	42.1418	0	50	84	14	152
4-Chlorophenyl-phenylether	1	40.1305	0	50	80	40	121
Diethylphthalate	1	42.9662	0	50	86	40	119
4-Nitroaniline	1	27.3113	0	50	55	31	125
Atrazine	1	35.908	0	50	72	12	164
4,6-Dinitro-2-methylphenol	1	31.1843	0	100	31	10	146

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB108929

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	37.02	0	50	74	10	172
1,2-Diphenylhydrazine	1	44.3808	0	50	89	24	144
4-Bromophenyl-phenylether	1	40.1429	0	50	80	26	148
Hexachlorobenzene	1	37.7389	0	50	75	36	124
N-Octadecane	1	59.9892	0	50	120	10	186
Pentachlorophenol	1	63.8666	0	100	64	21	148
Phenanthrene	1	61.2581	24.4666	50	74	10	175
Anthracene	1	43.3769	3.4299	50	80	21	148
Carbazole	1	43.5676	2.0178	50	83	36	137
Di-n-butylphthalate	1	45.4522	0	50	91	41	134
Fluoranthene	1	62.5539	27.5135	50	70	10	186
Pyrene	1	63.0863	23.6448	50	79	10	196
Benzidine	1	0	0	50	0*	10	77
Butylbenzylphthalate	1	45.8424	0	50	92	40	139
3,3'-Dichlorobenzidine	1	2.2397	0	50	4.5*	10	110
Benzo[a]anthracene	1	52.7172	13.1811	50	79	13	142
Chrysene	1	64.568	27.8395	50	73	11	161
bis(2-Ethylhexyl)phthalate	1	48.6281	0	50	97	34	156
Di-n-octylphthalate	1	45.9668	0	50	92	28	158
Benzo[b]fluoranthene	1	62.6774	21.8134	50	82	20	156
Benzo[k]fluoranthene	1	50.1828	6.5641	50	87	15	156
Benzo[a]pyrene	1	55.1817	12.8176	50	85	14	144
Indeno[1,2,3-cd]pyrene	1	45.9434	7.7175	50	76	24	142
Dibenzo[a,h]anthracene	1	41.1485	3.057	50	76	29	132
Benzo[g,h,i]perylene	1	42.6044	8.8557	50	67	12	142

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB108929

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M129489.D	AD38586-008(MSD:AD38586-0	6/23/2023 9:45:00 PM
Non Spike(If applicable):	7M129515.D	AD38586-001	6/26/2023 9:34:00 AM
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	13.739	0	50	27	10	60
Pyridine	1	29.524	0	50	59	13	107
N-Nitrosodimethylamine	1	32.1272	0	50	64	30	100
Benzaldehyde	1	22.987	0	50	46	10	121
Aniline	1	18.9524	0	50	38	10	96
Pentachloroethane	1	31.7759	0	50	64	19	125
bis(2-Chloroethyl)ether	1	35.2931	0	50	71	28	120
Phenol	1	67.6026	0	100	68	32	119
2-Chlorophenol	1	73.3012	0	100	73	33	124
N-Decane	1	26.8674	0	50	54	10	142
1,3-Dichlorobenzene	1	34.8274	0	50	70	32	105
1,4-Dichlorobenzene	1	36.8995	0	50	74	37	100
1,2-Dichlorobenzene	1	36.9493	0	50	74	29	208
Benzyl alcohol	1	38.6919	0	50	77	37	119
bis(2-chloroisopropyl)ether	1	24.6825	0	50	49	20	110
2-Methylphenol	1	71.6646	0	100	72	38	114
Acetophenone	1	35.7747	0	50	72	11	152
Hexachloroethane	1	31.5563	0	50	63	10	130
N-Nitroso-di-n-propylamine	1	35.7599	0	50	72	10	151
3&4-Methylphenol	1	72.2388	0	100	72	36	127
Nitrobenzene	1	40.3408	0	50	81	20	142
Isophorone	1	34.3295	0	50	69	10	164
2-Nitrophenol	1	62.4093	0	100	62	16	146
2,4-Dimethylphenol	1	75.4998	0	100	75	15	150
Benzoic Acid	1	84.6643	0	100	85	10	182
bis(2-Chloroethoxy)methane	1	39.1421	0	50	78	26	131
2,4-Dichlorophenol	1	81.2393	0	100	81	20	146
1,2,4-Trichlorobenzene	1	40.8891	0	50	82	33	121
Naphthalene	1	41.7661	3.3781	50	77	10	153
4-Chloroaniline	1	22.4953	0	50	45	10	112
Hexachlorobutadiene	1	42.0789	0	50	84	32	113
Caprolactam	1	35.2928	0	50	71	10	174
4-Chloro-3-methylphenol	1	78.6997	0	100	79	32	138
2-Methylnaphthalene	1	45.8375	2.5017	50	87	11	153
1-Methylnaphthalene	1	43.8799	0	50	88	10	180
1,1'-Biphenyl	1	36.7753	0	50	74	18	148
1,2,4,5-Tetrachlorobenzene	1	39.3557	0	50	79	31	124
Hexachlorocyclopentadiene	1	0	0	50	0*	10	103
2,4,6-Trichlorophenol	1	82.4567	0	100	82	32	137
2,4,5-Trichlorophenol	1	80.1423	0	100	80	36	131
2-Chloronaphthalene	1	41.4952	0	50	83	41	115
1,4-Dimethylnaphthalene	1	39.7334	0	50	79	10	205
Diphenyl Ether	1	38.408	0	50	77	31	127
2-Nitroaniline	1	36.5832	0	50	73	32	142
Coumarin	1	39.5986	0	50	79	14	160
Acenaphthylene	1	48.2115	2.3292	50	92	26	133
Dimethylphthalate	1	41.9778	0	50	84	40	120
2,6-Dinitrotoluene	1	38.3362	0	50	77	18	148
Acenaphthene	1	42.4783	0	50	85	11	158
3-Nitroaniline	1	32.095	0	50	64	14	137
2,4-Dinitrophenol	1	0	0	100	0*	10	128
Dibenzofuran	1	46.1125	2.2958	50	88	10	170
2,4-Dinitrotoluene	1	36.6205	0	50	73	10	173
4-Nitrophenol	1	76.8074	0	100	77	23	140
2,3,4,6-Tetrachlorophenol	1	74.4476	0	100	74	26	126
Fluorene	1	42.638	0	50	85	14	152
4-Chlorophenyl-phenylether	1	40.7879	0	50	82	40	121
Diethylphthalate	1	42.3063	0	50	85	40	119
4-Nitroaniline	1	27.086	0	50	54	31	125
Atrazine	1	36.0739	0	50	72	12	164
4,6-Dinitro-2-methylphenol	1	10.4533	0	100	10	10	146

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB108929

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	**1**	**37.0966**	**0**	**50**	**74**	**10**	**172**
1,2-Diphenylhydrazine	1	41.2889	0	50	83	24	144
4-Bromophenyl-phenylether	**1**	**42.3403**	**0**	**50**	**85**	**26**	**148**
Hexachlorobenzene	**1**	**40.5765**	**0**	**50**	**81**	**36**	**124**
N-Octadecane	1	54.3827	0	50	109	10	186
Pentachlorophenol	**1**	**71.8841**	**0**	**100**	**72**	**21**	**148**
Phenanthrene	**1**	**72.2808**	**24.4666**	**50**	**96**	**10**	**175**
Anthracene	**1**	**46.3729**	**3.4299**	**50**	**86**	**21**	**148**
Carbazole	**1**	**42.64**	**2.0178**	**50**	**81**	**36**	**137**
Di-n-butylphthalate	**1**	**45.1735**	**0**	**50**	**90**	**41**	**134**
Fluoranthene	**1**	**74.1654**	**27.5135**	**50**	**93**	**10**	**186**
Pyrene	**1**	**73.704**	**23.6448**	**50**	**100**	**10**	**196**
Benzidine	1	0	0	50	0*	10	77
Butylbenzylphthalate	**1**	**44.3321**	**0**	**50**	**89**	**40**	**139**
3,3'-Dichlorobenzidine	**1**	**4.3101**	**0**	**50**	**8.6***	**10**	**110**
Benzo[a]anthracene	**1**	**58.2339**	**13.1811**	**50**	**90**	**13**	**142**
Chrysene	**1**	**67.6353**	**27.8395**	**50**	**80**	**11**	**161**
bis(2-Ethylhexyl)phthalate	**1**	**45.3448**	**0**	**50**	**91**	**34**	**156**
Di-n-octylphthalate	**1**	**45.477**	**0**	**50**	**91**	**28**	**158**
Benzo[b]fluoranthene	**1**	**67.8624**	**21.8134**	**50**	**92**	**20**	**156**
Benzo[k]fluoranthene	**1**	**53.2635**	**6.5641**	**50**	**93**	**15**	**156**
Benzo[a]pyrene	**1**	**58.81**	**12.8176**	**50**	**92**	**14**	**144**
Indeno[1,2,3-cd]pyrene	**1**	**44.8454**	**7.7175**	**50**	**74**	**24**	**142**
Dibenzo[a,h]anthracene	**1**	**38.9796**	**3.057**	**50**	**72**	**29**	**132**
Benzo[g,h,i]perylene	**1**	**41.5357**	**8.8557**	**50**	**65**	**12**	**142**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB108929

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M129489.D	AD38586-008(MSD:AD38586-0	6/23/2023 9:45:00 PM
Duplicate(If applicable):	7M129516.D	AD38586-007(MS:AD38586-001	6/26/2023 9:57:00 AM
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
1,4-Dioxane	1	13.739	11.7553	16	62
Pyridine	1	29.524	27.7344	6.3	78
N-Nitrosodimethylamine	1	32.1272	33.5856	4.4	44
Benzaldehyde	1	22.987	26.2142	13	44
Aniline	1	18.9524	13.4379	34	90
Pentachloroethane	1	31.7759	36.4555	14	54
bis(2-Chloroethyl)ether	1	35.2931	38.1076	7.7	47
Phenol	1	67.6026	72.1214	6.5	46
2-Chlorophenol	1	73.3012	76.9564	4.9	47
N-Decane	1	26.8674	28.2997	5.2	62
1,3-Dichlorobenzene	1	34.8274	36.664	5.1	45
1,4-Dichlorobenzene	1	36.8995	35.4118	4.1	40
1,2-Dichlorobenzene	1	36.9493	35.9168	2.8	40
Benzyl alcohol	1	38.6919	38.4585	0.61	49
bis(2-chloroisopropyl)ether	1	24.6825	25.2566	2.3	39
2-Methylphenol	1	71.6646	70.2484	2	46
Acetophenone	1	35.7747	37.8942	5.8	50
Hexachloroethane	1	31.5563	34.2633	8.2	66
N-Nitroso-di-n-propylamine	1	35.7599	36.1243	1	47
3&4-Methylphenol	1	72.2388	71.3934	1.2	49
Nitrobenzene	1	40.3408	39.9778	0.9	48
Isophorone	1	34.3295	33.8541	1.4	47
2-Nitrophenol	1	62.4093	74.2001	17	52
2,4-Dimethylphenol	1	75.4998	71.2482	5.8	48
Benzoic Acid	1	84.6643	81.2034	4.2	70
bis(2-Chloroethoxy)methane	1	39.1421	38.1485	2.6	45
2,4-Dichlorophenol	1	81.2393	76.8376	5.6	47
1,2,4-Trichlorobenzene	1	40.8891	38.8168	5.2	39
Naphthalene	1	41.7661	39.4636	5.7	58
4-Chloroaniline	1	22.4953	19.6013	14	75
Hexachlorobutadiene	1	42.0789	38.3036	9.4	40
Caprolactam	1	35.2928	36.6021	3.6	41
4-Chloro-3-methylphenol	1	78.6997	77.5374	1.5	47
2-Methylnaphthalene	1	45.8375	43.2536	5.8	39
1-Methylnaphthalene	1	43.8799	43.2661	1.4	41
1,1'-Biphenyl	1	36.7753	36.8744	0.27	43
1,2,4,5-Tetrachlorobenzene	1	39.3557	40.4282	2.7	53
Hexachlorocyclopentadiene	1	0	2.0277	200*	113
2,4,6-Trichlorophenol	1	82.4567	79.0867	4.2	63
2,4,5-Trichlorophenol	1	80.1423	78.3542	2.3	49
2-Chloronaphthalene	1	41.4952	42.2866	1.9	53
1,4-Dimethylnaphthalene	1	39.7334	41.2261	3.7	45
Diphenyl Ether	1	38.408	39.9406	3.9	52
2-Nitroaniline	1	36.5832	37.7009	3	46
Coumarin	1	39.5986	41.599	4.9	43
Acenaphthylene	1	48.2115	45.9112	4.9	48
Dimethylphthalate	1	41.9778	42.255	0.66	49
2,6-Dinitrotoluene	1	38.3362	42.8929	11	49
Acenaphthene	1	42.4783	42.6006	0.29	39
3-Nitroaniline	1	32.095	29.3686	8.9	51
2,4-Dinitrophenol	1	0	21.7827	200*	88
Dibenzofuran	1	46.1125	45.455	1.4	45
2,4-Dinitrotoluene	1	36.6205	41.7892	13	47
4-Nitrophenol	1	76.8074	80.6937	4.9	53
2,3,4,6-Tetrachlorophenol	1	74.4476	68.2667	8.7	50
Fluorene	1	42.638	42.1418	1.2	41
4-Chlorophenyl-phenylether	1	40.7879	40.1305	1.6	39
Diethylphthalate	1	42.3063	42.9662	1.5	46
4-Nitroaniline	1	27.086	27.3113	0.83	47
Atrazine	1	36.0739	35.908	0.46	59
4,6-Dinitro-2-methylphenol	1	10.4533	31.1843	100	100

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: SMB108929

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Nitrosodiphenylamine	**1**	**37.0966**	**37.02**	**0.21**	**56**
1,2-Diphenylhydrazine	1	41.2889	44.3808	7.2	45
4-Bromophenyl-phenylether	**1**	**42.3403**	**40.1429**	**5.3**	**41**
Hexachlorobenzene	**1**	**40.5765**	**37.7389**	**7.2**	**54**
N-Octadecane	1	54.3827	59.9892	9.8	42
Pentachlorophenol	**1**	**71.8841**	**63.8666**	**12**	**48**
Phenanthrene	**1**	**72.2808**	**61.2581**	**17**	**70**
Anthracene	**1**	**46.3729**	**43.3769**	**6.7**	**47**
Carbazole	**1**	**42.64**	**43.5676**	**2.2**	**46**
Di-n-butylphthalate	**1**	**45.1735**	**45.4522**	**0.62**	**47**
Fluoranthene	**1**	**74.1654**	**62.5539**	**17**	**63**
Pyrene	**1**	**73.704**	**63.0863**	**16**	**61**
Benzidine	1	0	0	NA	267
Butylbenzylphthalate	**1**	**44.3321**	**45.8424**	**3.3**	**40**
3,3'-Dichlorobenzidine	**1**	**4.3101**	**2.2397**	**63***	**48**
Benzo[a]anthracene	**1**	**58.2339**	**52.7172**	**9.9**	**55**
Chrysene	**1**	**67.6353**	**64.568**	**4.6**	**54**
bis(2-Ethylhexyl)phthalate	**1**	**45.3448**	**48.6281**	**7**	**39**
Di-n-octylphthalate	**1**	**45.477**	**45.9668**	**1.1**	**60**
Benzo[b]fluoranthene	**1**	**67.8624**	**62.6774**	**7.9**	**64**
Benzo[k]fluoranthene	**1**	**53.2635**	**50.1828**	**6**	**57**
Benzo[a]pyrene	**1**	**58.81**	**55.1817**	**6.4**	**58**
Indeno[1,2,3-cd]pyrene	**1**	**44.8454**	**45.9434**	**2.4**	**50**
Dibenzo[a,h]anthracene	**1**	**38.9796**	**41.1485**	**5.4**	**45**
Benzo[g,h,i]perylene	**1**	**41.5357**	**42.6044**	**2.5**	**48**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Quantitation Report (QT Reviewed)

SampleID : AD38586-008(MSD:AD3 Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129489.D Sam Mult : 1 Vial# : 28 Qt On : 06/25/23 09:08
Acq On : 06/23/23 21:45 Misc : S,BNA Qt Upd On: 06/19/23 13:33

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-2323\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.628	96	74572	40.00	ng	0.01
21) 1,4-Dichlorobenzene-d4	5.830	152	120649	40.00	ng	0.00
31) Naphthalene-d8	6.835	136	447879	40.00	ng	0.00
50) Acenaphthene-d10	8.275	164	250267	40.00	ng	0.00
77) Phenanthrene-d10	9.755	188	404387	40.00	ng	0.00
91) Chrysene-d12	12.846	240	300578	40.00	ng	0.02
103) Perylene-d12	14.503	264	285622	40.00	ng	0.01
System Monitoring Compounds						
11) 2-Fluorophenol	4.667	112	327427	72.63	ng	0.02
Spiked Amount 100.000			Recovery = 72.63%			
16) Phenol-d5	5.542	99	398744	74.87	ng	0.02
Spiked Amount 100.000			Recovery = 74.87%			
32) Nitrobenzene-d5	6.283	128	85470	41.30	ng	0.00
Spiked Amount 50.000			Recovery = 82.60%			
55) 2-Fluorobiphenyl	7.675	172	342340m	41.93	ng	0.00
Spiked Amount 50.000			Recovery = 83.86%			
80) 2,4,6-Tribromophenol	9.027	330	75761m	83.69	ng	0.00
Spiked Amount 100.000			Recovery = 83.69%			
94) Terphenyl-d14	11.571	244	283344	43.42	ng	0.01
Spiked Amount 50.000			Recovery = 86.84%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.663	88	26484m	13.7390	ng	
9) Pyridine	3.139	79	106438m	29.5240	ng	
10) N-Nitrosodimethylamine	3.081	74	92269m	32.1272	ng	
12) Benzaldehyde	5.460	77	85340m	22.9870	ng	
13) Aniline	5.554	93	122334m	18.9524	ng	
14) Pentachloroethane	5.595	117	52006m	31.7759	ng	
15) bis(2-Chloroethyl)ether	5.613	93	156866m	35.2931	ng	
17) Phenol	5.554	94	410223m	67.6026	ng	
18) 2-Chlorophenol	5.660	128	334625m	73.3012	ng	
19) N-Decane	5.689	57	116284m	26.8674	ng	
20) 1,3-Dichlorobenzene	5.783	146	162998m	34.8274	ng	
22) 1,4-Dichlorobenzene	5.842	146	169644m	36.8995	ng	
23) 1,2-Dichlorobenzene	5.965	146	161900m	36.9493	ng	
24) Benzyl alcohol	5.948	108	120211m	38.6919	ng	
25) bis(2-chloroisopropyl)...	6.054	45	126409m	24.6825	ng	
26) 2-Methylphenol	6.048	108	297927m	71.6646	ng	
27) Acetophenone	6.159	105	216004m	35.7747	ng	
28) Hexachloroethane	6.236	117	59567m	31.5563	ng	
29) N-Nitroso-di-n-propyla...	6.159	70	107044m	35.7599	ng	
30) 3&4-Methylphenol	6.171	108	294500m	72.2388	ng	
33) Nitrobenzene	6.295	77	173230m	40.3408	ng	
34) Isophorone	6.483	82	282202m	34.3295	ng	
35) 2-Nitrophenol	6.541	139	145393m	62.4093	ng	
36) 2,4-Dimethylphenol	6.577	107	314414m	75.4998	ng	
37) Benzoic Acid	6.700	105	287404m	84.6643	ng	
38) bis(2-Chloroethoxy)met...	6.641	93	188333m	39.1421	ng	
39) 2,4-Dichlorophenol	6.735	162	273167m	81.2393	ng	
40) 1,2,4-Trichlorobenzene	6.788	180	141324m	40.8891	ng	
41) Naphthalene	6.853	128	500254m	41.7661	ng	
42) 4-Chloroaniline	6.894	127	101744m	22.4953	ng	
43) Hexachlorobutadiene	6.935	225	74609	42.0789	ng	97
44) Caprolactam	7.194	113	54565m	35.2928	ng	
45) 4-Chloro-3-methylphenol	7.264	107	294418m	78.6997	ng	
46) 2-Methylnaphthalene	7.387	142	356160m	45.8375	ng	
47) 1-Methylnaphthalene	7.470	142	318953m	43.8799	ng	
48) Methylnaphthalenes (To...	7.387	142	676687m	89.9051	ng	
49) 1,1'-Biphenyl	7.763	154	354887	36.7753	ng	94
51) 1,2,4,5-Tetrachloroben...	7.523	216	125008	39.3557	ng	99
52) Hexachlorocyclopentadiene	7.505	237	1277	1.7220	ng	94
53) 2,4,6-Trichlorophenol	7.617	196	193150m	82.4567	ng	
54) 2,4,5-Trichlorophenol	7.658	196	197130m	80.1423	ng	
56) 2-Chloronaphthalene	7.793	162	290111m	41.4952	ng	
57) 1,4-Dimethylnaphthalene	8.069	156	215936m	39.7334	ng	
59) Diphenyl Ether	7.846	170	194256m	38.4080	ng	
60) 2-Nitroaniline	7.875	65	95405m	36.5832	ng	
61) Coumarin	8.057	146	113627m	39.5986	ng	
62) Acenaphthylene	8.151	152	476041m	48.2115	ng	
63) Dimethylphthalate	8.010	163	344581m	41.9778	ng	
64) 2,6-Dinitrotoluene	8.075	165	68765m	38.3362	ng	
65) Acenaphthene	8.304	153	285405m	42.4783	ng	
66) 3-Nitroaniline	8.228	138	67843m	32.0950	ng	

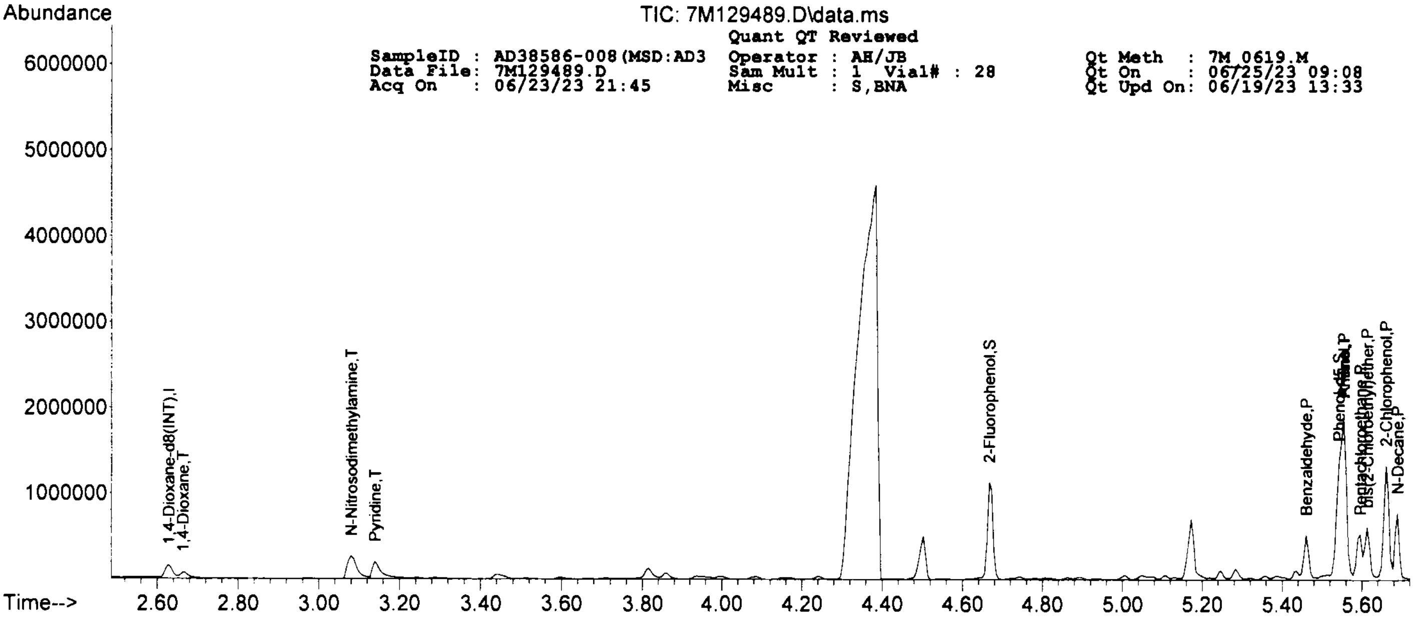
Quantitation Report (QT Reviewed)

SampleID : AD38586-008(MSD:AD3 Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129489.D Sam Mult : 1 Vial# : 28 Qt On : 06/25/23 09:08
Acq On : 06/23/23 21:45 Misc : S,BNA Qt Upd On: 06/19/23 13:33

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-2323\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67)	2,4-Dinitrophenol	8.327	184	6753m	6.7482	ng	
68)	Dibenzofuran	8.463	168	465003m	46.1125	ng	
69)	2,4-Dinitrotoluene	8.439	165	95491m	36.6205	ng	
70)	4-Nitrophenol	8.380	65	123709m	76.8074	ng	
71)	2,3,4,6-Tetrachlorophenol	8.574	232	140674m	74.4476	ng	
72)	Fluorene	8.786	166	343039m	42.6380	ng	
73)	4-Chlorophenyl-phenyle...	8.774	204	156217m	40.7879	ng	
74)	Diethylphthalate	8.651	149	339898m	42.3063	ng	
75)	4-Nitroaniline	8.803	138	62798m	27.0860	ng	
76)	Atrazine	9.432	200	89316m	36.0739	ng	
78)	4,6-Dinitro-2-methylph...	8.833	198	13721m	10.4533	ng	
79)	n-Nitrosodiphenylamine	8.892	169	246894m	37.0966	ng	
81)	1,2-Diphenylhydrazine	8.933	77	338354m	41.2889	ng	
82)	4-Bromophenyl-phenylether	9.268	248	87611m	42.3403	ng	
83)	Hexachlorobenzene	9.338	284	88490m	40.5765	ng	
84)	N-Octadecane	9.602	57	210243m	54.3827	ng	
85)	Pentachlorophenol	9.550	266	89116m	71.8841	ng	
86)	Phenanthrene	9.785	178	777201m	72.2808	ng	
87)	Anthracene	9.838	178	507696m	46.3729	ng	
88)	Carbazole	10.008	167	457536m	42.6400	ng	
89)	Di-n-butylphthalate	10.384	149	604282m	45.1735	ng	
90)	Fluoranthene	11.130	202	876734m	74.1654	ng	
92)	Pyrene	11.395	202	825724m	73.7040	ng	
97)	Butylbenzylphthalate	12.164	149	244033m	44.3321	ng	
99)	3,3'-Dichlorobenzidine	12.805	252	15501m	4.3101	ng	
100)	Benzo[a]anthracene	12.834	228	576115m	58.2339	ng	
101)	Chrysene	12.875	228	586368m	67.6353	ng	
102)	bis(2-Ethylhexyl)phtha...	12.863	149	314371m	45.3448	ng	
104)	Di-n-octylphthalate	13.621	149	556596m	45.4770	ng	
105)	Benzo[b]fluoranthene	14.068	252	622051m	67.8624	ng	
106)	Benzo[k]fluoranthene	14.097	252	449322m	53.2635	ng	
107)	Benzo[a]pyrene	14.438	252	464554m	58.8100	ng	
108)	Indeno[1,2,3-cd]pyrene	15.907	276	411022m	44.8454	ng	
109)	Dibenzo[a,h]anthracene	15.925	278	296784m	38.9796	ng	
110)	Benzo[g,h,i]perylene	16.312	276	313840m	41.5357	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed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SampleID : AD38586-008(MSD:AD3
Data File: 7M129489.D
Acq On : 06/23/23 21:45
Operator : AH/JB
Sam Mult : 1 Vial# : 28
Misc : S,BNA
Qt Meth : 7M_0619.M
Qt On : 06/25/23 09:08
Qt Upd On: 06/19/23 13:33
6000000
5000000
4000000
3000000
2000000
1000000
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
N-Decane,P
2-Chlorophenol,P
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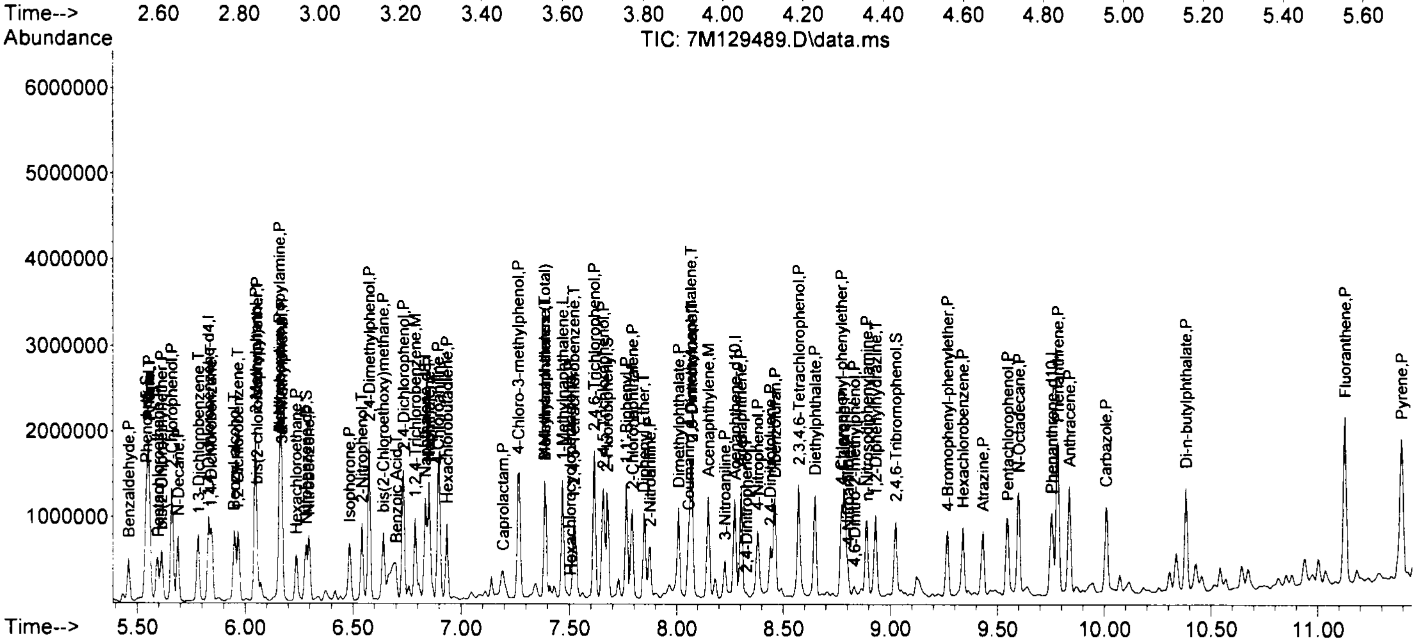
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6000000
5000000
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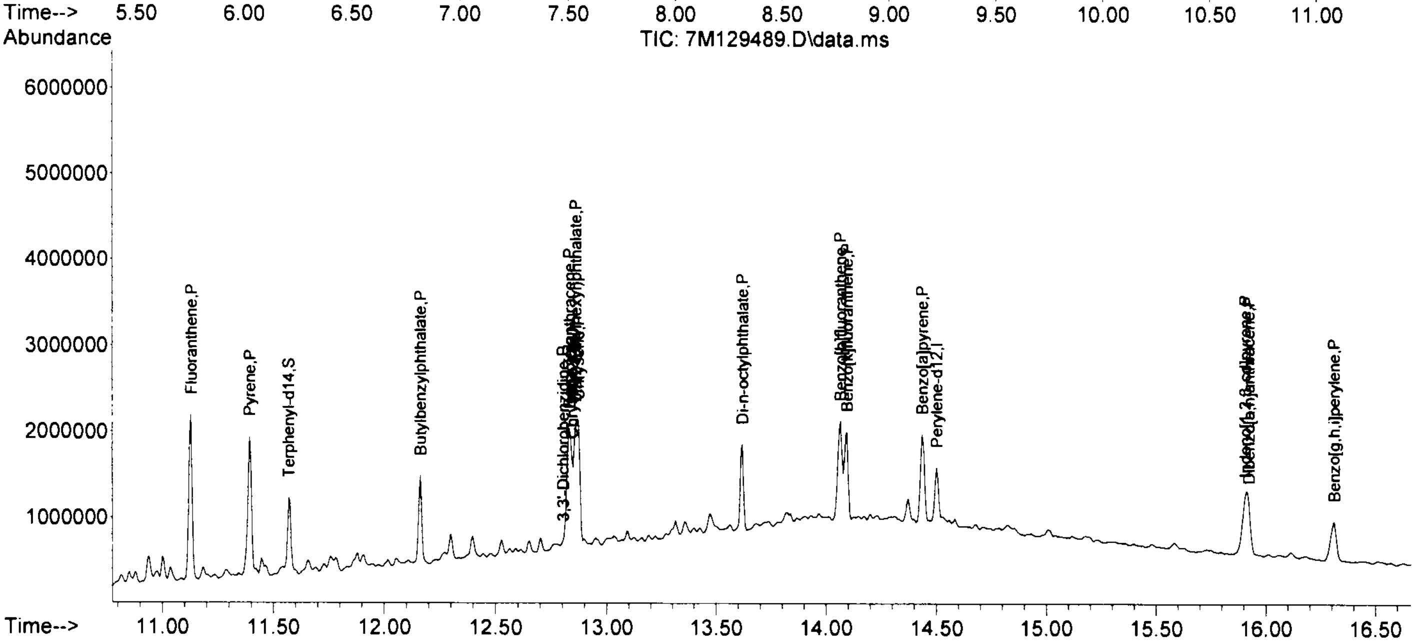
Benzaldehyde,P
N-Decane,P
Hexachloroethane,P
Isophorone,P
2-Nitrophenol,P
2,4-Dimethylphenol,P
bis(2-Chloroethoxy)methane,P
2,4-Dichlorophenol,P
Benzoic Acid,P
Hexachlorobutadiene,P
Caprolactam,P
4-Chloro-3-methylphenol,P
2,4,6-Trichlorophenol,P
Dimethylphthalate,P
Acenaphthylene,M
3-Nitroaniline,P
4-Nitrophenol,P
Dibenzofuran,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Pyrene,P
Time-->
5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00


Abundance
TIC: 7M129489.D\data.ms
6000000
5000000
4000000
3000000
2000000
1000000
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->
11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50 15.00 15.50 16.00 16.50

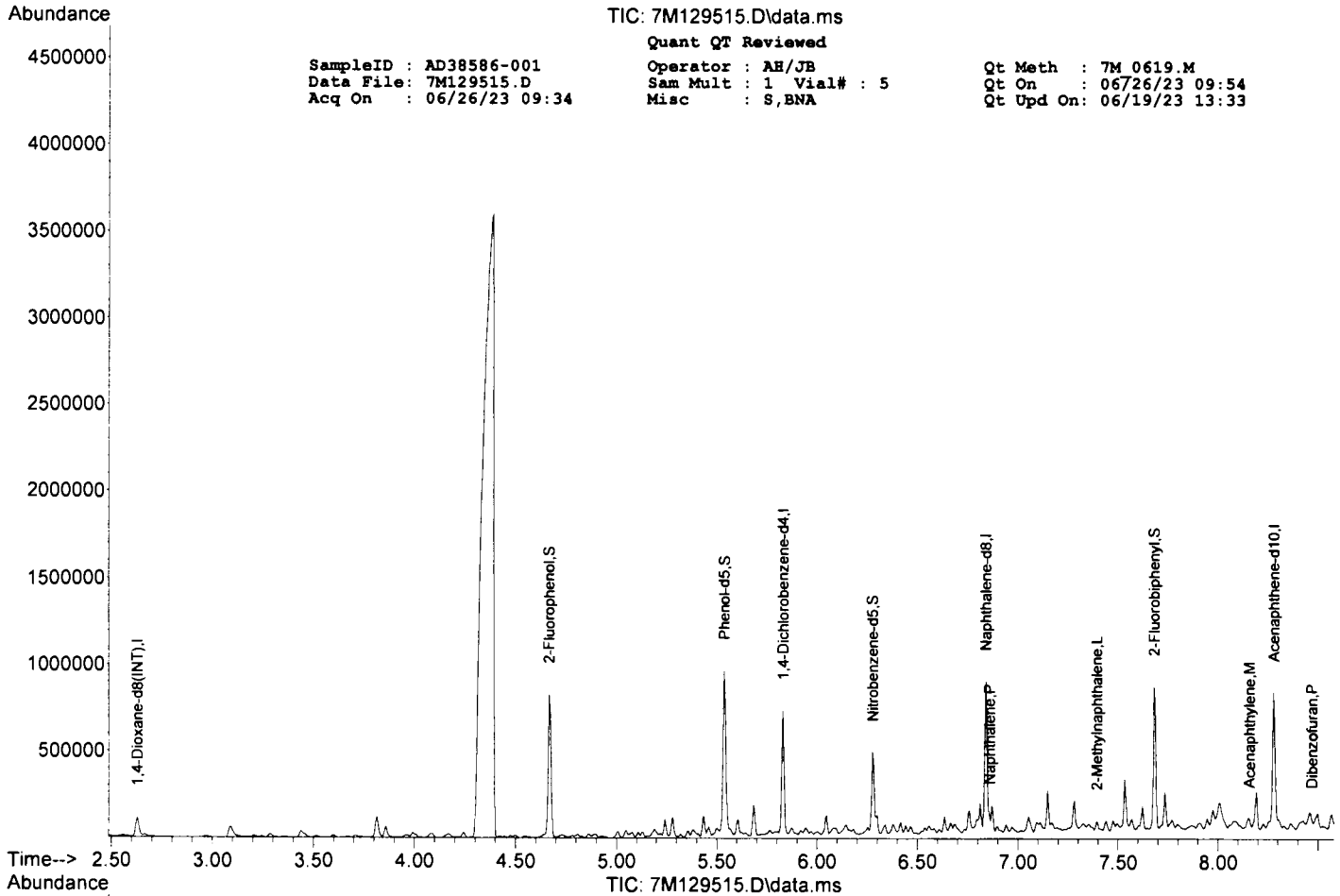
Quantitation Report (QT Reviewed)

SampleID : AD38586-001 Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129515.D Sam Mult : 1 Vial# : 5 Qt On : 06/26/23 09:54
Acq On : 06/26/23 09:34 Misc : S,BNA Qt Upd On: 06/19/23 13:33

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-26-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.628	96	46840	40.00	ng	0.01
21) 1,4-Dichlorobenzene-d4	5.830	152	83726	40.00	ng	0.00
31) Naphthalene-d8	6.841	136	315944	40.00	ng	0.00
50) Acenaphthene-d10	8.281	164	165850	40.00	ng	0.00
77) Phenanthrene-d10	9.761	188	259655	40.00	ng	0.01
91) Chrysene-d12	12.846	240	196161	40.00	ng	0.02
103) Perylene-d12	14.509	264	194464	40.00	ng	0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.667	112	225341	79.58	ng	0.02
Spiked Amount 100.000			Recovery =	79.58%		
16) Phenol-d5	5.537	99	287191	85.86	ng	0.02
Spiked Amount 100.000			Recovery =	85.86%		
32) Nitrobenzene-d5	6.277	128	62281	42.66	ng	0.00
Spiked Amount 50.000			Recovery =	85.32%		
55) 2-Fluorobiphenyl	7.681	172	234950	43.43	ng	0.00
Spiked Amount 50.000			Recovery =	86.86%		
80) 2,4,6-Tribromophenol	9.033	330	43665	75.12	ng	0.01
Spiked Amount 100.000			Recovery =	75.12%		
94) Terphenyl-d14	11.577	244	181283	42.57	ng	0.02
Spiked Amount 50.000			Recovery =	85.14%		
Target Compounds						Qvalue
41) Naphthalene	6.859	128	28542m	3.3781	ng	
46) 2-Methylnaphthalene	7.393	142	13712m	2.5017	ng	
62) Acenaphthylene	8.157	152	15241m	2.3292	ng	
68) Dibenzofuran	8.469	168	15342m	2.2958	ng	
86) Phenanthrene	9.785	178	168921m	24.4666	ng	
87) Anthracene	9.838	178	24111m	3.4299	ng	
88) Carbazole	10.014	167	13902m	2.0178	ng	
90) Fluoranthene	11.130	202	208839m	27.5135	ng	
92) Pyrene	11.395	202	172876m	23.6448	ng	
100) Benzo[a]anthracene	12.834	228	85102m	13.1811	ng	
101) Chrysene	12.875	228	157512m	27.8395	ng	
105) Benzo[b]fluoranthene	14.068	252	136134m	21.8134	ng	
106) Benzo[k]fluoranthene	14.097	252	37701m	6.5641	ng	
107) Benzo[a]pyrene	14.444	252	68935m	12.8176	ng	
108) Indeno[1,2,3-cd]pyrene	15.913	276	48158m	7.7175	ng	
109) Dibenzo[a,h]anthracene	15.919	278	15847m	3.0570	ng	
110) Benzo[g,h,i]perylene	16.318	276	45557m	8.8557	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed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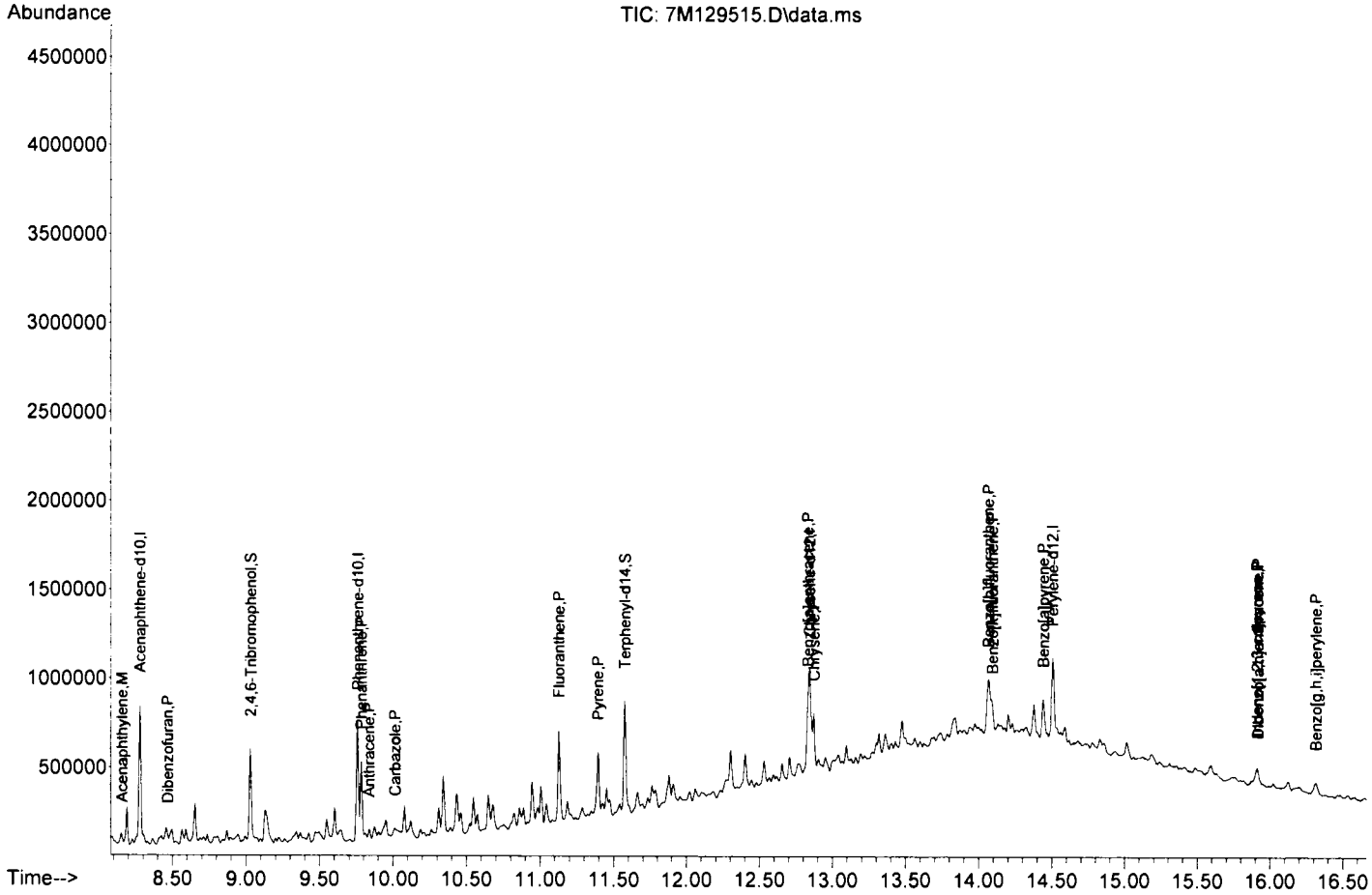
Quant QT Reviewed
SampleID : AD38586-001
Data File: 7M129515.D
Acq On : 06/26/23 09:34
Operator : AH/JB
Sam Mult : 1 Vial# : 5
Misc : S,BNA
Qt Meth : 7M_0619.M
Qt On : 06/26/23 09:54
Qt Upd On: 06/19/23 13:33
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
Naphthalene,P
2-Methylnaphthalene,L
2-Fluorobiphenyl,S
Acenaphthylene,M
Acenaphthene-d10,I
Dibenzofuran,P
Time-->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Acenaphthene-d10,I
Dibenzofuran,P
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Anthracene,P
Carbazole,P
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Chrysene,P
Benzo(a)pyrene,P
Perylene-d12,I
Benzo(g,h,i)perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : AD38586-007(MS:AD38 Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129516.D Sam Mult : 1 Vial# : 6 Qt On : 06/26/23 10:29
Acq On : 06/26/23 09:57 Misc : S,BNA Qt Upd On: 06/19/23 13:33

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-26-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.623	96	47843	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.831	152	83703	40.00	ng	0.00
31) Naphthalene-d8	6.841	136	320192	40.00	ng	0.00
50) Acenaphthene-d10	8.281	164	171700	40.00	ng	0.00
77) Phenanthrene-d10	9.755	188	276265	40.00	ng	0.00
91) Chrysene-d12	12.846	240	200273	40.00	ng	0.02
103) Perylene-d12	14.526	264	196834	40.00	ng	0.04
System Monitoring Compounds						
11) 2-Fluorophenol	4.667	112	215872	74.64	ng	0.02
Spiked Amount 100.000			Recovery = 74.64%			
16) Phenol-d5	5.543	99	269358	78.84	ng	0.02
Spiked Amount 100.000			Recovery = 78.84%			
32) Nitrobenzene-d5	6.283	128	57622	38.94	ng	0.00
Spiked Amount 50.000			Recovery = 77.88%			
55) 2-Fluorobiphenyl	7.681	172	234579	41.88	ng	0.00
Spiked Amount 50.000			Recovery = 83.76%			
80) 2,4,6-Tribromophenol	9.033	330	45740	73.96	ng	0.01
Spiked Amount 100.000			Recovery = 73.96%			
94) Terphenyl-d14	11.577	244	183752	42.26	ng	0.02
Spiked Amount 50.000			Recovery = 84.52%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.664	88	14538	11.7553	ng	93
9) Pyridine	3.140	79	64148m	27.7344	ng	
10) N-Nitrosodimethylamine	3.075	74	61884m	33.5856	ng	
12) Benzaldehyde	5.460	77	62438m	26.2142	ng	
13) Aniline	5.554	93	55649m	13.4379	ng	
14) Pentachloroethane	5.590	117	38279	36.4555	ng	85
15) bis(2-Chloroethyl)ether	5.613	93	108666m	38.1076	ng	
17) Phenol	5.554	94	280778m	72.1214	ng	
18) 2-Chlorophenol	5.660	128	225390m	76.9564	ng	
19) N-Decane	5.690	57	78581m	28.2997	ng	
20) 1,3-Dichlorobenzene	5.784	146	110089m	36.6640	ng	
22) 1,4-Dichlorobenzene	5.842	146	112949m	35.4118	ng	
23) 1,2-Dichlorobenzene	5.966	146	109183m	35.9168	ng	
24) Benzyl alcohol	5.948	108	82896m	38.4585	ng	
25) bis(2-chloroisopropyl)...	6.054	45	89739m	25.2566	ng	
26) 2-Methylphenol	6.048	108	202609m	70.2484	ng	
27) Acetophenone	6.160	105	158736m	37.8942	ng	
28) Hexachloroethane	6.236	117	44871m	34.2633	ng	
29) N-Nitroso-di-n-propyla...	6.160	70	75021m	36.1243	ng	
30) 3&4-Methylphenol	6.171	108	201925m	71.3934	ng	
33) Nitrobenzene	6.295	77	122729m	39.9778	ng	
34) Isophorone	6.483	82	198954m	33.8541	ng	
35) 2-Nitrophenol	6.547	139	123580m	74.2001	ng	
36) 2,4-Dimethylphenol	6.577	107	212119m	71.2482	ng	
37) Benzoic Acid	6.694	105	197068m	81.2034	ng	
38) bis(2-Chloroethoxy)met...	6.641	93	131223m	38.1485	ng	
39) 2,4-Dichlorophenol	6.735	162	184708m	76.8376	ng	
40) 1,2,4-Trichlorobenzene	6.794	180	95913	38.8168	ng	98
41) Naphthalene	6.859	128	337919m	39.4636	ng	
42) 4-Chloroaniline	6.894	127	63380m	19.6013	ng	
43) Hexachlorobutadiene	6.935	225	48553	38.3036	ng	95
44) Caprolactam	7.194	113	40456m	36.6021	ng	
45) 4-Chloro-3-methylphenol	7.270	107	207373m	77.5374	ng	
46) 2-Methylnaphthalene	7.394	142	240268m	43.2536	ng	
47) 1-Methylnaphthalene	7.476	142	224832m	43.2661	ng	
48) Methylnaphthalenes (To...	7.394	142	465955m	86.5946	ng	
49) 1,1'-Biphenyl	7.770	154	254395m	36.8744	ng	
51) 1,2,4,5-Tetrachloroben...	7.529	216	88101	40.4282	ng	98
52) Hexachlorocyclopentadiene	7.511	237	1033	2.0277	ng	92
53) 2,4,6-Trichlorophenol	7.623	196	127098m	79.0867	ng	
54) 2,4,5-Trichlorophenol	7.658	196	132227m	78.3542	ng	
56) 2-Chloronaphthalene	7.793	162	202832m	42.2866	ng	
57) 1,4-Dimethylnaphthalene	8.075	156	153712m	41.2261	ng	
58) Dimethylnaphthalenes (...	8.075	156	153770m	41.2416	ng	
59) Diphenyl Ether	7.852	170	138591m	39.9406	ng	
60) 2-Nitroaniline	7.875	65	67454m	37.7009	ng	
61) Coumarin	8.063	146	81894m	41.5990	ng	
62) Acenaphthylene	8.157	152	311013m	45.9112	ng	
63) Dimethylphthalate	8.016	163	237967m	42.2550	ng	
64) 2,6-Dinitrotoluene	8.081	165	52785m	42.8929	ng	
65) Acenaphthene	8.310	153	196371m	42.6006	ng	

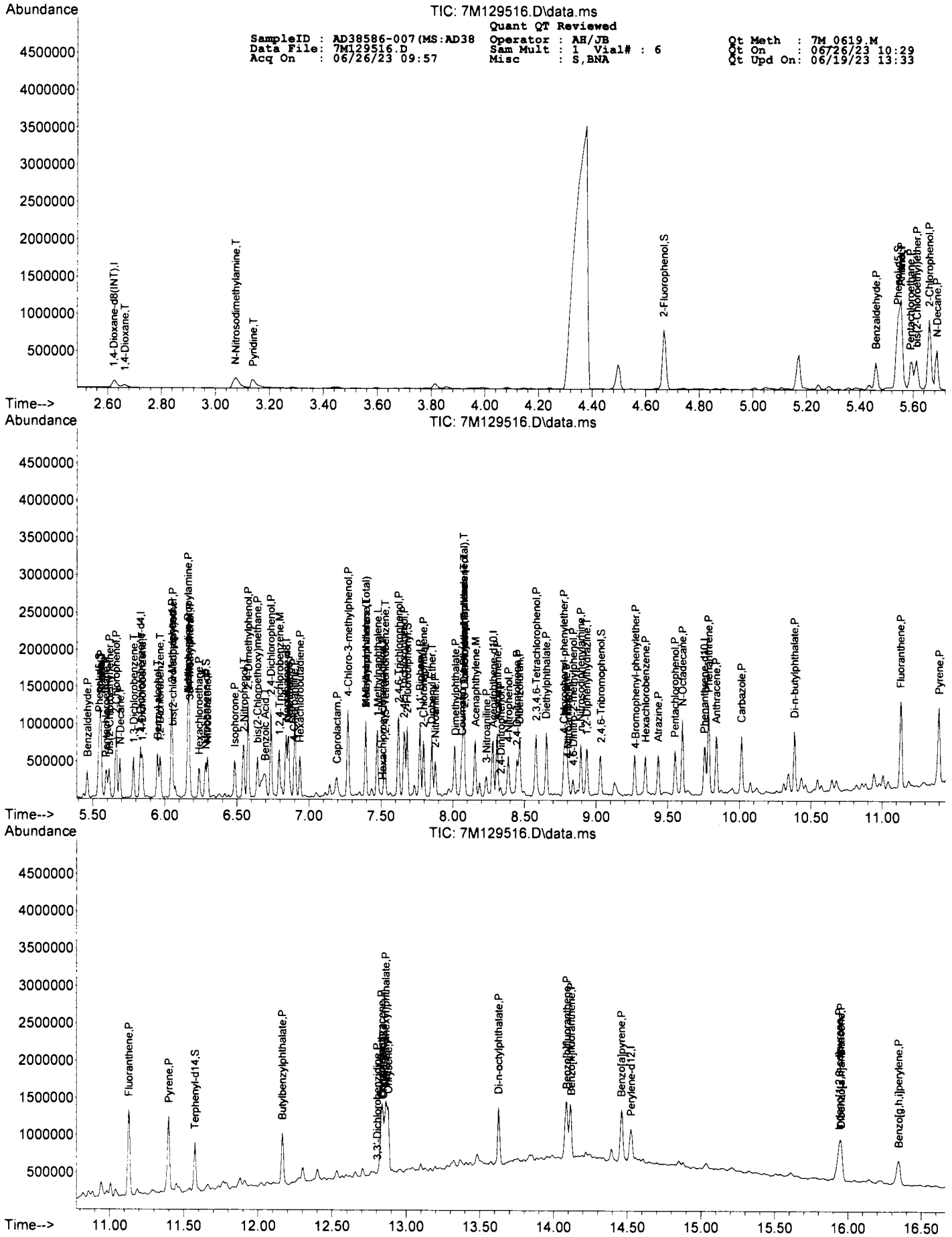
Quantitation Report (QT Reviewed)

SampleID : AD38586-007(MS:AD38 Operator : AH/JB Qt Meth : 7M_0619.M
Data File: 7M129516.D Sam Mult : 1 Vial# : 6 Qt On : 06/26/23 10:29
Acq On : 06/26/23 09:57 Misc : S,BNA Qt Upd On: 06/19/23 13:33

Data Path : G:\GcMsData\2023\GCMS_7\Data\06-26-23\
Qt Path : G:\GCMSDATA\2023\GCMS_7\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.234	138	42591m	29.3686	ng	
67)	2,4-Dinitrophenol	8.334	184	14955m	21.7827	ng	
68)	Dibenzofuran	8.463	168	314475m	45.4550	ng	
69)	2,4-Dinitrotoluene	8.445	165	74760m	41.7892	ng	
70)	4-Nitrophenol	8.386	65	89167m	80.6937	ng	
71)	2,3,4,6-Tetrachlorophenol	8.580	232	88499m	68.2667	ng	
72)	Fluorene	8.792	166	232609m	42.1418	ng	
73)	4-Chlorophenyl-phenyle...	8.774	204	105448m	40.1305	ng	
74)	Diethylphthalate	8.651	149	236830m	42.9662	ng	
75)	4-Nitroaniline	8.804	138	43442m	27.3113	ng	
76)	Atrazine	9.432	200	60995m	35.9080	ng	
78)	4,6-Dinitro-2-methylph...	8.839	198	27964m	31.1843	ng	
79)	n-Nitrosodiphenylamine	8.892	169	168322m	37.0200	ng	
81)	1,2-Diphenylhydrazine	8.933	77	248463m	44.3808	ng	
82)	4-Bromophenyl-phenylether	9.274	248	56747	40.1429	ng	88
83)	Hexachlorobenzene	9.344	284	56226	37.7389	ng	73
84)	N-Octadecane	9.603	57	158439m	59.9892	ng	
85)	Pentachlorophenol	9.550	266	54091m	63.8666	ng	
86)	Phenanthrene	9.785	178	449990m	61.2581	ng	
87)	Anthracene	9.838	178	324434m	43.3769	ng	
88)	Carbazole	10.014	167	319375m	43.5676	ng	
89)	Di-n-butylphthalate	10.384	149	415374m	45.4522	ng	
90)	Fluoranthene	11.130	202	505184m	62.5539	ng	
92)	Pyrene	11.401	202	470917m	63.0863	ng	
97)	Butylbenzylphthalate	12.164	149	168137m	45.8424	ng	
99)	3,3'-Dichlorobenzidine	12.805	252	5367m	2.2397	ng	
100)	Benzo[a]anthracene	12.834	228	347497m	52.7172	ng	
101)	Chrysene	12.881	228	372975m	64.5680	ng	
102)	bis(2-Ethylhexyl)phtha...	12.864	149	224630m	48.6281	ng	
104)	Di-n-octylphthalate	13.628	149	387705m	45.9668	ng	
105)	Benzo[b]fluoranthene	14.092	252	395928m	62.6774	ng	
106)	Benzo[k]fluoranthene	14.121	252	291737m	50.1828	ng	
107)	Benzo[a]pyrene	14.462	252	300392m	55.1817	ng	
108)	Indeno[1,2,3-cd]pyrene	15.942	276	290187m	45.9434	ng	
109)	Dibenzo[a,h]anthracene	15.954	278	215906m	41.1485	ng	
110)	Benzo[g,h,i]perylene	16.348	276	221845m	42.6044	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 7M129516.D\data.ms
Quant QT Reviewed
SampleID : AD38586-007(MS:AD38
Data File: 7M129516.D
Acq On : 06/26/23 09:57
Operator : AH/JB
Sam Mult : 1 Vial# : 6
Misc : S,BNA
Qt Meth : 7M_0619.M
Qt On : 06/26/23 10:29
Qt Upd On: 06/19/23 13:33
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->
Abundance
TIC: 7M129516.D\data.ms
Benzaldehyde,P
Isophorone,P
Caprolactam,P
4-Chloro-3-methylphenol,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Pyrene,P
2,4,6-Tribromophenol,S
Time-->
Abundance
TIC: 7M129516.D\data.ms
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

GC/MS Base Neutral/Acid Extractable Data
Logbook Data

QC108929

Hampton-Clarke

Analysis: BN/BNA/AE

Method Blank No. SMB- 108929
Blank Spike (SMBS): _____
Blank Spike (SMBS): _____
Start Ext Time: 9:00 am
End Ext. Time: 4:30
Recirculator: Start temp: 13.9
End temp: _____

Date: 6/23/23
Matrix Spike: _____
Matrix Spike: _____
Sonicator Used: 1, 2
Condenser Used: 4, 9
Condenser Flow: 2500 CCM

SONICATION EXTRACTION (3550B) UNLESS CHECKED HERE: ASE (3545)

Sample Number	# in Batch	Initial Weight (g)	Final Volume (ml)	Fraction BN	Fraction BNA	Fraction AE	Extracted By	Extract Appearance Color	Extract Appearance Clarity	Extract Appearance Sediment	Comments
MB 108929		30	0.5		✓		AJ/LT				Balance ID: 41
MBS 108929											
MS 38586-007											MS
MSD 38586-008											MSD
AD38532-001	1										~~MSB~~
-007	2										
-008	3										
AD38334-001	4		0.5								
-002	5										
-003	6										
-004	7										
AD38584 -006	8		0.5								
-008	9										
-010	10										
-012	11										
-014	12										
-016	13										
AD38586-001	14										Original Sample
-002	15										
-003	16										
-004	17										
AD38614-002	18										
-003	19										
-004	20										

Spike Standard

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
25	1000	393504	BNA tox
	2000	152.83	Acid Comp
	1000	393505	CLP-mix

Surrogate Standard

Vol (ul's)	Conc. (ppm/ppb)	Lot No	
25	1000/2000	376959	BNA SURR

Reagent Lots: $MeCl_2$ 15357 Acetone 15356 Hexane _____ Na2SO4 39751 Ether _____

MTBE _____ $MeCl_2$:Acetone 397809 Other _____

Relinquished By: AJ/LT Date: 06/23/23
Received By: KT Date: 06/24/23

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QC108840

Hampton-Clarke

Extraction of Semi-volatile – Aqueous
Method 3510 C

Batch No.: 108840
Start extraction time: 6:06 pm
End extraction time: 4:49 am
Recirculator: Start temp: 20.0, 15.0
End temp: 20.1, 14.8

Date: 6/19/23
Shaker Used: 2,3,4
Condenser used: 1,2,5
Condenser Flow: 2500 CCM

Sample Number	# In Batch	Initial Volume	Final Volume	pH Verif NaOH ≥12	pH Verif H_2SO_4 <2	Fraction BN	Fraction BNA	Fraction AE	Extracted By/ Comments TCLP/SPLP Extract Fluid	Ext by	QC	
MB 108840	X	1000	1.0	X		X				JM		
MBS 108840	X	↓	↓	↓		↓				↓		
MS 38527-001	X	500										
MSD 38527-001	X	↓	↓									
AD 38527-001	1	↓	0.5									1/2 Surr.
↓ -006	2	1000	1.0									
AD 38541-001	3	995	↓									
-002	4	1000										
-003	5	↓										
-004	6	995										
-005	7	1000										
-006	8	↓										
-007	9	↓										
-008	10	995										
-009	11	990										
-010	12	1000										
-011	13	995	↓									
↓ -012	14	830	0.5									1/2 Surr.
AD 38545-001	15	1000	1.0									
AD 38586-005	16	500	0.5									1/2 Surr.
↓ -006	17	↓	↓									↓
AD 38576-001	18	1000	1.0									
↓ -002	19	↓	↓									
AD 38637-031	20	↓	↓	↓		↓				↓		

Spike Standard

Vol (µl)	Conc. (ppm/ppb)	Lot No.	
50	2000	15124	BN Mix
↓	↓	15125	Toxic Mix
↓	↓	396428	CLP Mix

Surrogate Standard

Vol (µl)	Conc. (ppm/ppb)	Lot No.	
50	1000/2000	376959	BNA Surr.

Reagent Lots: $MeCl_2$ 15320 Acetone _____ Hexane _____ baked Na_2SO_4 397499
10N NaOH 343232 H_2SO_4 _____ Other _____

Relinquished By: JM Date: 6/19/23

Received By: MP Date: 06/20/23

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RUN LOG

Instrument: GCMS_7 Year: 2023
Analyst: AH/JB

1-1-7M129283

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
7M129283.	CAL DFTPP	Ee1=2.3;Ed1=2;	OK, V-395403	JB 06/20/23		Aqueous	1	1		06/19 08:46
7M129284.	CAL BNA@2PPM		OK, V-397599	JB 06/20/23		Aqueous	1	1	625\8270	06/19 09:10
7M129285.	CAL BNA@196PPM		OK, V-397597	JB 06/20/23		Aqueous	1	1	625\8270	06/19 09:36
7M129286.	CAL BNA@160PPM		OK, V-397596	JB 06/20/23		Aqueous	1	1	625\8270	06/19 10:00
7M129287.	CAL BNA@120PPM		OK, V-397595	JB 06/20/23		Aqueous	1	1	625\8270	06/19 10:23
7M129288.	CAL BNA@80PPM	IsC16C18	RR	JB 06/20/23		Aqueous	1	1	625\8270	06/19 10:47
7M129289.	CAL BNA@20PPM		OK, V-397592	JB 06/20/23		Aqueous	1	1	625\8270	06/19 11:10
7M129290.	CAL BNA@10PPM		OK, V-397591	JB 06/20/23		Aqueous	1	1	625\8270	06/19 11:34
7M129291.	CAL BNA@0.5PPM		OK, V-397600	JB 06/20/23		Aqueous	1	1	625\8270	06/19 11:57
7M129292.	CAL BNA@50PPM		OK, V-397593	JB 06/20/23		Aqueous	1	1	625\8270	06/19 12:21
7M129293.	CAL BNA@80PPM		OK, V-397594	JB 06/20/23		Aqueous	1	1	625\8270	06/19 13:08
7M129294.	ICV BNA@50PPM	Is	OK, V-397602	JB 06/20/23		Aqueous	1	1	625\8270	06/19 13:32

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 8000 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for eph
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hh	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmtl.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Endrin Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

1-1-10M97589

Instrument: GCMS_10Year: 2023
Analyst: AH/JB

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
10M97589.	CAL DFTPP	Ee1=2.6;Ed1=1;	OK, V-395403	JB 06/20/23		Aqueous	1	1		06/19 09:04
10M97590.	CAL BNA@2PPM		OK, V-397599	JB 06/20/23		Aqueous	1	1	625\8270	06/19 09:27
10M97591.	CAL BNA@10PPM		OK, V-397591	JB 06/20/23		Aqueous	1	1	625\8270	06/19 09:53
10M97592.	CAL BNA@196PPM		OK, V-397597	JB 06/20/23		Aqueous	1	1	625\8270	06/19 10:15
10M97593.	CAL BNA@160PPM		OK, V-397596	JB 06/20/23		Aqueous	1	1	625\8270	06/19 10:38
10M97594.	CAL BNA@120PPM		OK, V-397595	JB 06/20/23		Aqueous	1	1	625\8270	06/19 11:00
10M97595.	CAL BNA@80PPM		OK, V-397594	JB 06/20/23		Aqueous	1	1	625\8270	06/19 11:23
10M97596.	CAL BNA@20PPM		OK, V-397592	JB 06/20/23		Aqueous	1	1	625\8270	06/19 11:45
10M97597.	CAL BNA@0.5PPM		OK, V-397600	JB 06/20/23		Aqueous	1	1	625\8270	06/19 12:11
10M97598.	CAL BNA@50PPM		OK, V-397593	JB 06/20/23		Aqueous	1	1	625\8270	06/19 12:41
10M97599.	BNA@80PPM		NOT USED	JB 06/20/23		Aqueous	1	1	625\8270	06/19 13:04
10M97600.	ICV BNA@50PPM		OK, V-397602	JB 06/20/23		Aqueous	1	1	625\8270	06/19 13:27
10M97601.	108832	Ao	RR	JB 06/20/23		Aqueous	1	1	625\8270	06/19 13:52
10M97602.	WMB108832		OK	JB 06/20/23		Aqueous	1	1	625\8270	06/19 14:14
10M97603.	WMB108832(MS)		OK WMB108832	JB 06/20/23		Aqueous	1	1	625\8270	06/19 15:00
10M97604.	AD38529-003(T)		OK	JB 06/20/23	BNA-8270	Aqueous	1	1	8270E	06/19 15:23
10M97605.	AD38529-001(T)		OK WMB108832	JB 06/20/23	BNA-8270	Aqueous	1	1	625\8270	06/19 15:46
10M97606.	AD38529-001(T)(M		OK WMB108832	JB 06/20/23	BNA-8270	Aqueous	1	1	625\8270	06/19 16:09
10M97607.	AD38529-001(T)(M		OK WMB108832	JB 06/20/23	BNA-8270	Aqueous	1	1	625\8270	06/19 16:32
10M97608.	AD38647-001		OK	JB 06/20/23	BNA-625	Aqueous	1	1	625	06/19 16:54
10M97609.	EF1 V-397210(6/14)		OK	JB 06/20/23		Aqueous	1	6	8270E	06/19 17:17
10M97610.	AD38543-001		OK	JB 06/20/23	BN15-8270	Aqueous	1	1	8270E	06/19 17:49
10M97611.	AD38543-002		OK	JB 06/20/23	BN15-8270	Aqueous	1	1	8270E	06/19 18:11
10M97612.	AD38543-003		OK	JB 06/20/23	BN15-8270	Aqueous	1	1	8270E	06/19 18:34
10M97613.	AD38543-004		OK	JB 06/20/23	BN15-8270	Aqueous	1	1	8270E	06/19 18:56
10M97614.	AD38543-005		OK	JB 06/20/23	BN15-8270	Aqueous	1	1	8270E	06/19 19:19
10M97615.	AD38543-006		OK	JB 06/20/23	BN15-8270	Aqueous	1	1	8270E	06/19 19:42
10M97616.	AD38543-010		OK	JB 06/20/23	BN15-8270	Aqueous	1	1	8270E	06/19 20:04
10M97617.	AD38543-007		OK	JB 06/20/23	BN15-8270	Aqueous	1	1	8270E	06/19 20:27
10M97618.	AD38543-008		OK	JB 06/20/23	BN15-8270	Aqueous	1	1	8270E	06/19 20:49
10M97619.	AD38543-009	Ti8	RR	JB 06/20/23	BN15-8270	Aqueous	1	1	8270E	06/19 21:12

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Etn	Tcln/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for enh
B8m	Blank 8000 series missing	Eto	Tcln Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C8f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt csv for init calibration chek rds	S6	600 series surrogate out
Cme	Endion Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

1-1-10M97620

Instrument: GCMS_10Year: 2023
Analyst: AH/JB

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
10M97620.	CAL DFTPP	Ee1=6.4;Ed1=0.86;	OK, V-395403	JB 06/20/23		Aqueous	1	1		06/20 08:41
10M97621.	CAL BNA@50PPM		OK, V-397593	JB 06/20/23		Aqueous	1	1	625\8270	06/20 09:04
10M97622.	WMB108840(MS)	M16M18	OK WMB108840	JB 06/20/23		Aqueous	1	1	625\8270	06/20 09:27
10M97623.	WMB108840		OK	JB 06/20/23		Aqueous	1	1	625\8270	06/20 09:50
10M97624.	AD38541-012		OK	JB 06/20/23	BN-8270	Aqueous	1	1	8270E	06/20 10:13
10M97625.	AD38541-001		OK	JB 06/20/23	BN-8270	Aqueous	1	1	8270E	06/20 10:35
10M97626.	AD38541-002		OK	JB 06/20/23	BN-8270	Aqueous	1	1	8270E	06/20 10:58
10M97627.	AD38541-003		OK	JB 06/20/23	BN-8270	Aqueous	1	1	8270E	06/20 11:21
10M97628.	AD38541-004		OK	JB 06/20/23	BN-8270	Aqueous	1	1	8270E	06/20 11:43
10M97629.	AD38541-005		OK	JB 06/20/23	BN-8270	Aqueous	1	1	8270E	06/20 12:06
10M97630.	AD38541-006		OK	JB 06/20/23	BN-8270	Aqueous	1	1	8270E	06/20 12:29
10M97631.	AD38541-007		OK	JB 06/20/23	BN-8270	Aqueous	1	1	8270E	06/20 12:52
10M97632.	AD38541-008		OK	JB 06/20/23	BN-8270	Aqueous	1	1	8270E	06/20 13:14
10M97633.	AD38541-009		OK	JB 06/20/23	BN-8270	Aqueous	1	1	8270E	06/20 13:37
10M97634.	AD38541-010		OK	JB 06/20/23	BN-8270	Aqueous	1	1	8270E	06/20 13:59
10M97635.	AD38541-011		OK	JB 06/20/23	BN-8270	Aqueous	1	1	8270E	06/20 14:22
10M97636.	OMB108853(MS)		OK OMB108853	JB 06/21/23		Oil/Other	1	1	8270E	06/20 14:45
10M97637.	SMB108849(MS)		OK SMB108849	JB 06/21/23		Soil	1	1	8270E	06/20 15:07

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B8m	Blank 600 series missing	Eto	Tclp/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for anh
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evm	Eval Mix missing ddt or endop
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt csv for init calibration chek rds	S6	600 series surrogate out
Cme	Endion Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Co	Calibration Not Checked for sample/blank/eval	Ix	Initial CalFiles Not Updated Properly for a samol	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

1-1-10M97638

Instrument: GCMS_10Year: 2023
Analyst: AH/JB

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
10M97638.	CAL DFTPP	Ee1=5.2;Ed1=1;	OK, V-395403	JB 06/21/23		Aqueous	1	1		06/20 15:30
10M97639.	CAL BNA@50PPM		OK, V-397593	JB 06/21/23		Aqueous	1	1	625\8270	06/20 15:53
10M97640.	SMB108852(MS)		OK SMB108852	JB 06/21/23		Soil	1	1	8270E	06/20 16:20
10M97641.	AD38586-005		OK	JB 06/21/23	BNPAH-8270	Aqueous	1	1	8270E	06/20 16:42
10M97642.	AD38586-006		OK	JB 06/21/23	BNPAH-8270	Aqueous	1	1	8270E	06/20 17:05
10M97643.	AD38527-001		OK WMB108840	JB 06/21/23	BN-8270	Aqueous	1	1	625\8270	06/20 17:27
10M97644.	AD38527-001(MS)		OK WMB108840	JB 06/21/23	BN-8270	Aqueous	1	1	625\8270	06/20 17:49
10M97645.	AD38527-001(MSD)		OK WMB108840	JB 06/21/23	BN-8270	Aqueous	1	1	625\8270	06/20 18:12
10M97646.	AD38527-006		OK	JB 06/21/23	BN-8270	Aqueous	1	1	8270E	06/20 18:34
10M97647.	AD38543-009		OK	JB 06/21/23	BN15-8270	Aqueous	1	1	8270E	06/20 18:57
10M97648.	AD38576-001		OK	JB 06/21/23	BN15-8270	Aqueous	1	1	8270E	06/20 19:19
10M97649.	AD38576-002		OK	JB 06/21/23	BN15-8270	Aqueous	1	1	8270E	06/20 19:42
10M97650.	AD38545-001		OK	JB 06/21/23	BN-8270	Aqueous	1	1	8270E	06/20 20:04
10M97651.	AD38637-031		OK	JB 06/21/23	BNPAH-8270	Aqueous	1	1	8270E	06/20 20:27

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Cn	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
Bm	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Crn	C30/C20 failed for anh
Bm	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Seqas)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C8f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Ddft
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Endrin Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a samol	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

1-1-9M122387

Instrument: GCMS_9 Year: 2023
Analyst: AH/JB

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
9M122387.	CAL DFTPP	Ee1=0.8;Ed1=0.75;	OK, V-395403	AH 06/22/23		Aqueous	1	1		06/21 11:22
9M122388.	CAL BNA@10PPM		OK, V-397591	AH 06/22/23		Aqueous	1	1	625\8270	06/21 11:44
9M122389.	CAL BNA@2PPM		OK, V-397599	AH 06/22/23		Aqueous	1	1	625\8270	06/21 12:06
9M122390.	CAL BNA@196PPM		OK, V-397597	AH 06/22/23		Aqueous	1	1	625\8270	06/21 12:29
9M122391.	CAL BNA@160PPM		OK, V-397596	AH 06/22/23		Aqueous	1	1	625\8270	06/21 12:51
9M122392.	CAL BNA@120PPM		OK, V-397595	AH 06/22/23		Aqueous	1	1	625\8270	06/21 13:14
9M122393.	CAL BNA@80PPM		OK, V-397594	AH 06/22/23		Aqueous	1	1	625\8270	06/21 13:36
9M122394.	CAL BNA@20PPM		OK, V-397592	AH 06/22/23		Aqueous	1	1	625\8270	06/21 13:59
9M122395.	CAL BNA@0.5PPM		OK, V-397600	AH 06/22/23		Aqueous	1	1	625\8270	06/21 14:21
9M122396.	CAL BNA@50PPM		OK, V-397593	AH 06/22/23		Aqueous	1	1	625\8270	06/21 14:44
9M122397.	ICV BNA@50PPM	Is	OK, V-397602	AH 06/22/23		Aqueous	1	1	625\8270	06/21 15:07

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
BBm	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for anh
BBm	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C1B	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evm	Eval Mix missing ddt or endrin
C1B	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R1B R2B	Rpd Out on MsMsd (col1 and or col2) 600 series
C2B	Calibration Column 2 Out (600 Series)	I1B I2B	Initial cal 600 series failed Column 1 and or 2	R1B R2B	Rpd Out on MsMsd (col1 and or col2) 8000 series
C2B	Calibration Column 2 Out (8000 Series)	I1B I2B	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6I	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Drift
C8I	8000 series sample/blank did not have passing cal	Iv	Prob with calmt csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning Ini cal file <> method	S8	8000 series surrogate out
Co	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

1-1-5M124255

RUN LOG

Instrument: GCMS_5 Year: 2023
Analyst: AH/JB

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
5M124255.	CAL DFTPP	Ee1=1.1;Ed1=0.14;	OK, V-395403	AH 06/22/23		Aqueous	1	1		06/21 11:53
5M124256.	CAL BNA@2PPM		OK, V-397599	AH 06/22/23		Aqueous	1	1	625\8270	06/21 12:17
5M124257.	CAL BNA@10PPM		OK, V-397591	AH 06/22/23		Aqueous	1	1	625\8270	06/21 12:41
5M124258.	CAL BNA@196PPM		OK, V-397597	AH 06/22/23		Aqueous	1	1	625\8270	06/21 13:04
5M124259.	CAL BNA@160PPM		OK, V-397596	AH 06/22/23		Aqueous	1	1	625\8270	06/21 13:28
5M124260.	CAL BNA@120PPM		OK, V-397595	AH 06/22/23		Aqueous	1	1	625\8270	06/21 13:52
5M124261.	CAL BNA@80PPM		OK, V-397594	AH 06/22/23		Aqueous	1	1	625\8270	06/21 14:16
5M124262.	CAL BNA@20PPM		OK, V-397592	AH 06/22/23		Aqueous	1	1	625\8270	06/21 14:39
5M124263.	CAL BNA@0.5PPM		OK, V-397600	AH 06/22/23		Aqueous	1	1	625\8270	06/21 15:03
5M124264.	CAL BNA@50PPM		OK, V-397593	AH 06/22/23		Aqueous	1	1	625\8270	06/21 15:27
5M124265.	ICV BNA@50PPM	Is	OK, V-397602	AH 06/22/23		Aqueous	1	1	625\8270	06/21 15:55

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 8000 series missing	Eto	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for eph
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or eodpn
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Ddft
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calrpt csv for init calibration chek rds	S6	600 series surrogate out
Cme	Endinp Cal missing for sample (8000 series)	Iw	Initial cal warninp. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

1-1-5M124271

RUN LOG

Instrument: GCMS_5 Year: 2023
Analyst: AH/JB

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
5M124271.	CAL DFTPP		OK, V-395403	AH 06/25/23						06/23 08:43
5M124272.	CAL BNA@50PPM		OK, V-397593	AH 06/25/23		Aqueous	1	1	625\8270	06/23 09:06
5M124273.	WMB108886		OK	AH 06/25/23		Aqueous	1	1	625\8270	06/23 09:29
5M124274.	MDL-1 (AQ)		OK	AH 06/25/23		Aqueous	1	1	625\8270	06/23 09:53
5M124275.	SMB108928(MS)		OK SMB108928	AH 06/25/23		Soil	1	1	8270E	06/23 12:36
5M124276.	SMB108928		OK	AH 06/25/23		Soil	1	1	8270E	06/23 13:00
5M124277.	SMB108929(MS)		OK SMB108929	AH 06/25/23		Soil	1	1	8270E	06/23 14:08
5M124278.	SMB108929		OK	AH 06/25/23		Soil	1	1	8270E	06/23 14:31

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 ... not checked
B6m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for enb
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evro	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on Ms/Msd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on Ms/Msd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt csv for init calibration chek rls	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Co	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

1-1-5M124271

Instrument: GCMS_5 Year: 2023
Analyst: AH/JB

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
5M124271.	CAL DFTPP		OK, V-395403	AH 06/25/23						06/23 08:43
5M124272.	CAL BNA@50PPM		OK, V-397593	AH 06/25/23		Aqueous	1	1	625\8270	06/23 09:06
5M124273.	WMB108886		OK	AH 06/25/23		Aqueous	1	1	625\8270	06/23 09:29
5M124274.	MDL-1 (AQ)		OK	AH 06/25/23		Aqueous	1	1	625\8270	06/23 09:53
5M124275.	SMB108928(MS)		OK SMB108928	AH 06/25/23		Soil	1	1	8270E	06/23 12:36
5M124276.	SMB108928		OK	AH 06/25/23		Soil	1	1	8270E	06/23 13:00
5M124277.	SMB108929(MS)		OK SMB108929	AH 06/25/23		Soil	1	1	8270E	06/23 14:08
5M124278.	SMB108929		OK	AH 06/25/23		Soil	1	1	8270E	06/23 14:31

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Etn	Trip/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for enh
B8m	Blank 8000 series missing	Eto	Trip Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing rdft or eodrip
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calrpt.csv for init calibration chek rds	S6	600 series surrogate out
Cme	Eodinp Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a samol	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

1-1-9M122444

Instrument: GCMS_9 Year: 2023
Analyst: AH/JB

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
9M122444.	CAL DFTPP	Ee1=2.2;Ed1=1.4;	OK, V-395403	AH 06/23/23		Aqueous	1	1		06/23 09:06
9M122445.	CAL BNA@50PPM		OK, V-397593	AH 06/23/23		Aqueous	1	1	625\8270	06/23 09:28
9M122446.	WMB108886		OK	AH 06/23/23		Aqueous	1	1	625\8270	06/23 09:50
9M122447.	MDL-1 (AQ)		OK	AH 06/23/23		Aqueous	1	1	625\8270	06/23 10:13
9M122448.	SMB108868(MS)		OK SMB108868	AH 06/23/23		Soil	1	1	8270E	06/23 10:35
9M122449.	SMB108868		OK	AH 06/23/23		Soil	1	1	8270E	06/23 10:58
9M122450.	AD38653-001		OK	AH 06/23/23	BNA-8270	Soil	1	1	8270E	06/23 11:20
9M122451.	AD38653-002		OK	AH 06/23/23	BNA-8270	Soil	1	1	8270E	06/23 11:43
9M122452.	AD38653-004		OK	AH 06/23/23	BNA-8270	Soil	1	1	8270E	06/23 12:06
9M122453.	AD38653-005		OK	AH 06/23/23	BNA-8270	Soil	1	1	8270E	06/23 12:28
9M122454.	AD38653-006		OK	AH 06/23/23	BNA-8270	Soil	1	1	8270E	06/23 12:51
9M122455.	AD38554-015		OK	AH 06/23/23	BNA-8270	Soil	1	1	8270E	06/23 13:13
9M122456.	AD38554-012		OK SMB108884	AH 06/23/23	BNA-8270	Soil	1	1	8270E	06/23 13:36
9M122457.	AD38653-003		OK	AH 06/23/23	BNA-8270	Soil	1	1	8270E	06/23 13:59
9M122458.	AD38554-003		OK	AH 06/23/23	BNA-8270	Soil	1	1	625\8270	06/23 14:21
9M122459.	AD38554-006		OK	AH 06/23/23,AH 06/25/23,AH 06/25/23	BNA-8270	Soil	1	1	8270E	06/23 14:44
9M122460.	AD38554-012(MS)		OK SMB108884	AH 06/25/23	BNA-8270	Soil	1	1	8270E	06/23 15:06
9M122461.	AD38554-012(MSD)		OK SMB108884	AH 06/25/23	BNA-8270	Soil	1	1	8270E	06/23 15:29
9M122462.	AD38584-008		OK	AH 06/25/23	BNA-8270	Soil	1	1	8270E	06/23 15:52
9M122463.	AD38584-010		OK	AH 06/25/23	BNA-8270	Soil	1	1	8270E	06/23 16:15
9M122464.	AD38584-012		OK	AH 06/25/23	BNA-8270	Soil	1	1	8270E	06/23 16:37
9M122465.	AD38584-016		OK	AH 06/25/23	BNA-8270	Soil	1	1	8270E	06/23 17:00
9M122466.	AD38586-003		OK	AH 06/25/23	BNPAH-8270	Soil	1	1	8270E	06/23 17:23
9M122467.	AD38614-002		OK	AH 06/25/23	BNPAH-8270	Soil	1	1	8270E	06/23 17:45
9M122468.	AD38626-019		OK	AH 06/25/23	BNPAH-8270	Soil	1	1	8270E	06/23 18:08
9M122469.	AD38614-004		OK	AH 06/25/23	BNA15-8270	Soil	1	1	8270E	06/23 18:31
9M122470.	AD38633-084		OK	AH 06/25/23	BNA15-8270	Soil	1	1	8270E	06/23 18:53
9M122471.	AD38532-001		OK	AH 06/25/23	BNPAH-8270	Soil	1	1	8270E	06/23 19:16
9M122472.	AD38614-003		OK	AH 06/25/23	BNA15-8270	Soil	1	1	8270E	06/23 19:39
9M122473.	AD38633-074		OK	AH 06/25/23	BNA15-8270	Soil	1	1	8270E	06/23 20:01
9M122474.	AD38584-014		OK	AH 06/25/23	BNA-8270	Soil	1	1	8270E	06/23 20:24

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for enh
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endop
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R18,R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I18,I26	Initial cal 600 series failed Column 1 and or 2	R18,R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18,I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt.csv for init calibration chek rls	S6	600 series surrogate out
Cme	Endion Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6,Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

1-1-7M129478

Instrument: GCMS_7 Year: 2023
Analyst: AH/JB

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
7M129478.	CAL DFTPP	Ee1=7.3;Ed1=2.7;	OK, V-395403	AH 06/25/23		Aqueous	1	1		06/23 17:25
7M129479.	CAL BNA@50PPM		OK, V-397593	AH 06/25/23		Aqueous	1	1	625\8270	06/23 17:49
7M129480.	AD38554-009		OK	AH 06/25/23	BNA-8270	Soil	1	1	8270E	06/23 18:13
7M129481.	SMB108928	Ao	RR	AH 06/25/23		Soil	1	1	8270E	06/23 18:36
7M129482.	AD38626-014		OK	AH 06/25/23	BN15-8270	Soil	1	1	8270E	06/23 19:00
7M129483.	AD38626-018(5X)		OK	AH 06/25/23	BN15-8270	Soil	5	5	8270E	06/23 19:24
7M129484.	AD38633-004	Ao	RR	AH 06/25/23	BNA15-8270	Soil	1	1	8270E	06/23 19:47
7M129485.	AD38633-004(MS)		OK SMB108928	AH 06/26/23	BNA15-8270	Soil	1	1	8270E	06/23 20:11
7M129486.	AD38633-004(MSD)		OK SMB108928	AH 06/26/23	BNA15-8270	Soil	1	1	8270E	06/23 20:34
7M129487.	AD38586-001	Ao	RR	AH 06/25/23	BNA-8270	Soil	1	1	8270E	06/23 20:58
7M129488.	AD38586-007(MS:A	Ao	RR	AH 06/25/23	BNA-8270	Soil	1	1	8270E	06/23 21:22
7M129489.	AD38586-008(MSD:	R18M18	OK SMB108929	AH 06/26/23	BNA-8270	Soil	1	1	8270E	06/23 21:45
7M129490.	AD38633-009	Ao	RR	AH 06/25/23	BNA15-8270	Soil	1	1	8270E	06/23 22:08
7M129491.	AD38633-014		OK	AH 06/25/23	BNA15-8270	Soil	1	1	8270E	06/23 22:32
7M129492.	AD38633-034	Ao	RR	AH 06/25/23	BNA15-8270	Soil	1	1	8270E	06/23 22:55
7M129493.	AD38633-039		OK	AH 06/25/23	BNA15-8270	Soil	1	1	8270E	06/23 23:19
7M129494.	AD38633-044		OK	AH 06/25/23	BNA15-8270	Soil	1	1	8270E	06/23 23:42
7M129495.	AD38633-049		OK	AH 06/25/23	BNA15-8270	Soil	1	1	8270E	06/24 00:05
7M129496.	AD38633-054		OK	AH 06/25/23	BNA15-8270	Soil	1	1	8270E	06/24 00:29
7M129497.	AD38674-002		OK	AH 06/25/23	BNA-8270	Soil	1	1	8270E	06/24 00:52
7M129498.	AD38618-001(5X)		OK	AH 06/26/23	BNA15-8270	Soil	5	5	8270E	06/24 01:15
7M129499.	AD38633-059		OK	AH 06/25/23,AH 06/26/23	BNA15-8270	Soil	1	1	8270E	06/24 01:39
7M129500.	AD38534-001(3X)		OK	AH 06/26/23	BNPAH-8270	Soil	3	3	8270E	06/24 02:02
7M129501.	AD38534-002(3X)		OK	AH 06/26/23	BNPAH-8270	Soil	3	3	8270E	06/24 02:25
7M129502.	AD38586-002		OK	AH 06/25/23	BNA-8270	Soil	1	1	8270E	06/24 02:49
7M129503.	AD38586-004		OK	AH 06/25/23	BNPAH-8270	Soil	1	1	8270E	06/24 03:12
7M129504.	AD38584-006		OK	AH 06/25/23	BNA-8270	Soil	1	1	8270E	06/24 03:35
7M129505.	AD38633-019		OK	AH 06/25/23	BNA15-8270	Soil	1	1	8270E	06/24 03:59
7M129506.	AD38633-024		OK	AH 06/25/23	BNA15-8270	Soil	1	1	8270E	06/24 04:22
7M129507.	AD38633-029		OK	AH 06/25/23	BNA15-8270	Soil	1	1	8270E	06/24 04:45
7M129508.	AD38633-064		OK	AH 06/25/23	BNA15-8270	Soil	1	1	8270E	06/24 05:09
7M129509.	AD38633-069	Ti8	RR	AH 06/25/23	BNA15-8270	Soil	1	1	8270E	06/24 05:32
7M129510.	AD38633-079	Ti8	RR	AH 06/25/23	BNA15-8270	Soil	1	1	8270E	06/24 05:55

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Eto	Tdy/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for anb
B8m	Blank 8000 series missing	Eto	Tdy Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C1б	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endon
C1R	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R1б R2б	Rpd Out on MsMsd (col1 and or col2) 600 series
C2б	Calibration Column 2 Out (600 Series)	I1б I2б	Initial cal 600 series failed Column 1 and or 2	R1R R2R	Rpd Out on MsMsd (col1 and or col2) 8000 series
C2R	Calibration Column 2 Out (8000 Series)	I1R I2R	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

1-1-7M129511

Instrument: GCMS_7 Year: 2023
Analyst: AH/JB

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
7M129511.	CAL DFTPP	Ee1=3.6;Ed1=3.6;	OK, V-395403	AH 06/26/23		Aqueous	1	1		06/26 07:49
7M129512.	CAL BNA@50PPM		OK, V-397593	AH 06/26/23		Aqueous	1	1	625\8270	06/26 08:22
7M129513.	SMB108928		OK	AH 06/26/23		Soil	1	1	8270E	06/26 08:46
7M129514.	AD38633-004		OK SMB108928	AH 06/26/23	BNA15-8270	Soil	1	1	8270E	06/26 09:10
7M129515.	AD38586-001		OK SMB108929	AH 06/26/23	BNA-8270	Soil	1	1	8270E	06/26 09:34
7M129516.	AD38586-007(MS:AM18		OK SMB108929	AH 06/26/23	BNA-8270	Soil	1	1	8270E	06/26 09:57
7M129517.	AD38633-009		OK	AH 06/26/23	BNA15-8270	Soil	1	1	8270E	06/26 10:21
7M129518.	AD38633-034		OK	AH 06/26/23	BNA15-8270	Soil	1	1	8270E	06/26 10:45
7M129519.	AD38633-069		OK	AH 06/26/23	BNA15-8270	Soil	1	1	8270E	06/26 11:09
7M129520.	AD38633-079		OK	AH 06/26/23	BNA15-8270	Soil	1	1	8270E	06/26 11:33
7M129521.	AD38590-025		OK SMB108898	AH 06/26/23	BNA-8270	Soil	1	1	8270E	06/26 11:57
7M129522.	AD38590-029		OK	AH 06/26/23	BNA-8270	Soil	1	1	8270E	06/26 12:21
7M129523.	AD38590-039		OK	AH 06/26/23	BNA-8270	Soil	1	1	8270E	06/26 12:44
7M129524.	AD38590-043		OK	AH 06/26/23	BNA-8270	Soil	1	1	8270E	06/26 13:08
7M129525.	AD38590-035(3X)		OK, DIRTY	AH 06/26/23	BNA-8270	Soil	3	3	8270E	06/26 13:32
7M129526.	AD38590-031(3X)	Ao	RR	AH 06/26/23	BNA-8270	Soil	3	3	8270E	06/26 13:56
7M129527.	AD38590-025(MS)		OK SMB108898	AH 06/27/23	BNA-8270	Soil	1	1	8270E	06/26 14:20
7M129528.	AD38590-031(3X)	Ao	AREA CONFIRMED	AH 06/27/23	BNA-8270	Soil	3	3	8270E	06/26 14:43
7M129529.	AD38590-025(MSD)Ao		RR SMB108898	AH 06/27/23	BNA-8270	Soil	1	1	8270E	06/26 15:07
7M129530.	SMB108906		OK	AH 06/27/23		Soil	1	1	8270E	06/26 15:31
7M129531.	AD38582-001		OK	AH 06/27/23	BNA15-8270	Soil	1	1	8270E	06/26 15:55
7M129532.	AD38582-002(3X)		OK	AH 06/27/23	BNA15-8270	Soil	3	3	8270E	06/26 16:31
7M129533.	AD38590-025(MSD)Ao		AREA CONFIRMED	AH 06/27/23	BNA-8270	Soil	1	1	8270E	06/26 16:55
7M129534.	AD38582-003		OK	AH 06/27/23	BNA15-8270	Soil	1	1	8270E	06/26 17:19
7M129535.	AD38582-004		OK	AH 06/27/23	BNA15-8270	Soil	1	1	8270E	06/26 17:43
7M129536.	AD38584-036		OK	AH 06/27/23	BNA-8270	Soil	1	1	8270E	06/26 18:07
7M129537.	AD38584-040		OK	AH 06/27/23	BNA-8270	Soil	1	1	8270E	06/26 18:30
7M129538.	AD38590-001		OK	AH 06/27/23	BNA-8270	Soil	1	1	8270E	06/26 18:54
7M129539.	AD38590-003		OK	AH 06/27/23	BNA-8270	Soil	1	1	8270E	06/26 19:18
7M129540.	AD38590-005		OK	AH 06/27/23	BNA-8270	Soil	1	1	8270E	06/26 19:41
7M129541.	AD38590-009	Ti8	RR	AH 06/27/23	BNA-8270	Soil	1	1	8270E	06/26 20:05
7M129542.	AD38590-011	Ti8	RR	AH 06/27/23	BNA-8270	Soil	1	1	8270E	06/26 20:28

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for enb
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hh	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endon
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Dd8
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt csv for init calibration chek rls	S6	600 series surrogate out
Cme	Endino Cal missing for sample (8000 series)	Iw	Initial cal warning Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-375729

Prepared By: Bis, Yolanta
Description: DFTPP STOCK STD.
Prep Date: 7/13/2022
Expiration Date: 7/13/2023
Department: Organics
BatchNumber:
Concentration: 2000 ppm
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 07/20/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
13602	DFTPP STD.	.01 g	NEAT neat	2000 ppm
13117	Methylene Chloride optima	5 ml	neat neat	

Veritech Lot Number: V-376959

Prepared By: Hamid, Akmal
Description: BNA Surrog.Std.
Prep Date: 7/28/2022
Expiration Date: 7/28/2023
Department: Organics
BatchNumber:
Concentration: 1000-2000 pp
Final Volume: 1000 ml
ApprovedBy: akmal
ApproveDate: 07/29/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
13086	2-Fluorobiphenyl	1 g	NEAT neat	1000 ppm
14141	p-Terphenyl-d14	1 g	NEAT neat	1000 ppm
12713	Phenol-2,3,4,5,6-d5	2 g	NEAT neat	2000 ppm
12019	2,4,6-Tribromophenol	2 g	NEAT neat	2000 ppm
12021	Nitrobenzene-d5	800 ul	NEAT neat	1000 ppm
12716	2-Fluorophenol	1.6 ml	NEAT neat	2000 ppm
14703	acetone	1000 ml	neat neat	

Veritech Lot Number: V-380073

Prepared By: Hamid, Akmal
Description: BNA-6 MIX
Prep Date: 9/15/2022
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
13494	Biphenyl	.05 g	NEAT neat	5000 ppm
14182	Coumarin	.05 g	NEAT neat	5000 ppm
13496	Octadecane	.05 g	NEAT neat	5000 ppm
12783	Pentachloroethane	.05 g	NEAT neat	5000 ppm
9435	1,4-Dimethylnaphthalene	.0518 g	95 %	5000 ppm
14183	n-Decane	.05 g	NEAT neat	5000 ppm
14765	dichloromethane	10 ml	neat neat	

Veritech Lot Number: V-380074

Prepared By: Hamid, Akmal
Description: BNA-7 MIX
Prep Date: 9/15/2022
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14808	2,3,4,6-Tetrachlorophenol	.05 g	NEAT neat	5000 ppm
13494	Biphenyl	.05 g	NEAT neat	5000 ppm
14182	Coumarin	.05 g	NEAT neat	5000 ppm
13496	Octadecane	.05 g	NEAT neat	5000 ppm
12783	Pentachloroethane	.05 g	NEAT neat	5000 ppm
9435	1,4-Dimethylnaphthalene	.0518 g	95 %	5000 ppm
14183	n-Decane	.05 g	NEAT neat	5000 ppm
14765	dichloromethane	10 ml	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-380075

Prepared By: Hamid, Akmal
Description: Benzaldehyde Std (2nd source)
Prep Date: 9/15/2022
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 25 ml
ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
9150	Benzaldehyde	.25 g	NEAT neat	10000 ppm
14801	acetone	25 ml	neat neat	

Veritech Lot Number: V-380076

Prepared By: Hamid, Akmal
Description: Benzaldehyde Std
Prep Date: 9/15/2022
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
9150	Benzaldehyde	.1 g	NEAT neat	10000 ppm
14765	dichloromethane	10 ml	neat neat	

Veritech Lot Number: V-380077

Prepared By: Hamid, Akmal
Description: BNA-Pest Mix(Danger)
Prep Date: 9/15/2022
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14187	4,4'-DDD	.05 g	NEAT neat	5000 ppm
13106	4,4' -DDE	.05 g	NEAT neat	5000 ppm
12842	4,4'-DDT	.05 g	NEAT neat	5000 ppm
14765	dichloromethane	10 ml	neat neat	

Veritech Lot Number: V-380192

Prepared By: Hamid, Akmal
Description: 8270 EXTRA MIX#1(1st Source)(DANG
Prep Date: 9/16/2022
Expiration Date: 8/30/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/16/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12844	Caprolactam	.1 g	NEAT neat	10000 ppm
12843	1,2,4,5-Tetrachlorobenzene	.1 g	NEAT neat	10000 ppm
14222	Atrazine	.1 g	NEAT neat	10000 ppm
11341	Acetophenone	.1 g	NEAT neat	10000 ppm
9149	Diphenyl Ether	.1 g	NEAT neat	10000 ppm
13821	1,4 Dioxane	.1 g	NEAT neat	10000 ppm
14802	Dichloromethane	10 ml	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-380193

Prepared By: Hamid, Akmal
Description: 8270 EXTRA MIX#1(2nd Source)(DAN
Prep Date: 9/16/2022
Expiration Date: 8/30/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 09/16/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12844	Caprolactam	.5 g	NEAT neat	10000 ppm
12843	1,2,4,5-Tetrachlorobenzene	.5 g	NEAT neat	10000 ppm
14222	Atrazine	.5 g	NEAT neat	10000 ppm
11341	Acetophenone	.5 g	NEAT neat	10000 ppm
9149	Diphenyl Ether	.5 g	NEAT neat	10000 ppm
14204	1- Methylnaphthalene	.5 g	NEAT neat	10000 ppm
13821	1,4 Dioxane	.5 g	NEAT neat	10000 ppm
14800	ACETONE	50 ml	neat neat	

Veritech Lot Number: V-392947

Prepared By: Bis, Yolanta
Description: Pyridine Stock Std.
Prep Date: 4/5/2023
Expiration Date: 4/5/2024
Department: Organics
BatchNumber:
Concentration: 10,000 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 04/11/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12769	Pyridine	10 ul	neat neat	10000 ppm
14864	Methylene Chloride Optima-4L	990 ul	NEAT neat	

Veritech Lot Number: V-394768

Prepared By: Hamid, Akmal
Description: BNA Internal Std.
Prep Date: 5/3/2023
Expiration Date: 5/3/2024
Department: Organics
BatchNumber:
Concentration: 2000 ppm
Final Volume: 500 ml
ApprovedBy: akmal
ApproveDate: 05/03/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15084	Naphthalene-D8	1 g	NEAT neat	2000 ppm
15086	Phenanthrene-d10	1 g	NEAT neat	2000 ppm
15087	Chrysene-d12	1 g	NEAT neat	2000 ppm
15088	Perylene-d12	1 g	NEAT neat	2000 ppm
13897	Acenaphthene-d10	1 g	NEAT neat	2000 ppm
12507	1,4-Dichlorobenzene-D4	1 g	NEAT neat	2000 ppm
15082	1,4 Dioxane-D8	1 g	NEAT neat	2000 ppm
14864	Methylene Chloride Optima-4L	500 ml	NEAT neat	

Veritech Lot Number: V-395403

Prepared By: Bis, Yolanta
Description: DFTPP Mix
Prep Date: 5/15/2023
Expiration Date: 7/13/2023
Department: Organics
BatchNumber:
Concentration: 50 ppm
Final Volume: 1.5 ml
ApprovedBy: akmal
ApproveDate: 05/17/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-375729	DFTPP STOCK STD.	25 ul	2000 ppm	50 ppm
15268	DDT - Endrin Mix	200 ul	500 ppm	100 ppm
14759	Phenolics Mix	50 ul	2000 ppm	100 ppm
14598	EPA TCL Benzidines Mix	50	2000 ppm	100 ppm
14864	Methylene Chloride Optima-4L	675 ul	NEAT neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-397589

Prepared By: Bis, Yolanta
Description: BNA STOCK Std.A (DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber:
Concentration: 250 ppm
Final Volume: 600 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14569	MEGAMIX	150 ul	1000 ppm	250 ppm
14570	BENZOIC ACID	75 ul	2000 ppm	250 ppm
15050	EPA TCL Benzidines Mix	75 ul	2000 ppm	250 ppm
V-376959	BNA Surrog.Std.	75 ul	1000-2000 pp	125-250 pp
V-380077	BNA-Pest Mix(Danger)	30 ul	5000 ppm	250 ppm
V-380073	BNA-6 MIX	30 ul	5000 ppm	250 ppm
14765	dichloromethane	165 ul	neat neat	

Veritech Lot Number: V-397590

Prepared By: Bis, Yolanta
Description: BNA STOCK Std.(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber:
Concentration: 200 ppm
Final Volume: 500 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397589	BNA STOCK Std.A (DANGER)	400 ul	250 ppm	250 ppm
V-380192	8270 EXTRA MIX#1(1st Source)(DANGER)	10 ul	10000 ppm	250 ppm
V-380076	Benzaldehyde Std	10 ul	10000 ppm	250 ppm
14765	dichloromethane	80 ul	neat neat	

Veritech Lot Number: V-397591

Prepared By: Bis, Yolanta
Description: BNA 10 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 10 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397590	BNA STOCK Std.(DANGER)	5 ul	200 ppm	10 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14765	dichloromethane	93 ul	neat neat	

Veritech Lot Number: V-397592

Prepared By: Bis, Yolanta
Description: BNA 20 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 20 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397590	BNA STOCK Std.(DANGER)	10 ul	200 ppm	20 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14765	dichloromethane	88 ul	neat neat	

Veritech Lot Number: V-397593

Prepared By: Bis, Yolanta
Description: BNA 50 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 50 ppm
Final Volume: 600 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397590	BNA STOCK Std.(DANGER)	150 ul	200 ppm	50 ppm
V-394768	BNA Internal Std.	12 ul	2000 ppm	40 ppm
14765	dichloromethane	438 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-397594

Prepared By: Bis, Yolanta
Description: BNA 80 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 80 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397590	BNA STOCK Std.(DANGER)	40 ul	200 ppm	80 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14765	dichloromethane	58 ul	neat neat	

Veritech Lot Number: V-397595

Prepared By: Bis, Yolanta
Description: BNA 120 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 120 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397590	BNA STOCK Std.(DANGER)	60 ul	200 ppm	120 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14765	dichloromethane	38 ul	neat neat	

Veritech Lot Number: V-397596

Prepared By: Bis, Yolanta
Description: BNA 160 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 160 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397590	BNA STOCK Std.(DANGER)	80 ul	200 ppm	160 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14765	dichloromethane	18 ul	neat neat	

Veritech Lot Number: V-397597

Prepared By: Bis, Yolanta
Description: BNA 196 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 196 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397590	BNA STOCK Std.(DANGER)	98 ul	200 ppm	196 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14765	dichloromethane	0	neat neat	

Veritech Lot Number: V-397598

Prepared By: Bis, Yolanta
Description: BNA 50 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 50 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397590	BNA STOCK Std.(DANGER)	25 ul	200 ppm	50 ppm
14765	dichloromethane	75 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-397599

Prepared By: Bis, Yolanta
Description: BNA 2 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 2 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397598	BNA 50 ppm curve(DANGER)	4 ul	50 ppm	2 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14765	dichloromethane	94 ul	neat neat	

Veritech Lot Number: V-397600

Prepared By: Bis, Yolanta
Description: BNA 0.5 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 0.5 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397598	BNA 50 ppm curve(DANGER)	1 ul	50 ppm	2 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14765	dichloromethane	97 ul	neat neat	

Veritech Lot Number: V-397601

Prepared By: Bis, Yolanta
Description: BNA STOCK Std.B(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber:
Concentration: 250 ppm
Final Volume: 600 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14446	Polynuclear Aromatic Hydrocarbons Mix.	75 ul	2000 ppm	250 ppm
15050	EPA TCL Benzidines Mix	75 ul	2000 ppm	250 ppm
14140	EPA TCL Hazardous subs. Mix	75 ul	2000 ppm	250 ppm
15169	EPA TCL BASE-NEUTRALS Mix	75 ul	2000 ppm	250 ppm
V-376959	BNA Surrog.Std.	75 ul	1000-2000 pp	125-250 pp
V-392947	Pyridine Stock Std.	15 ul	10,000 ppm	250 ppm
V-380074	BNA-7 MIX	30 ul	5000 ppm	250 ppm
14759	Phenolics Mix	75 ul	2000 ppm	250 ppm
14765	dichloromethane	180 ul	neat neat	

Veritech Lot Number: V-397602

Prepared By: Bis, Yolanta
Description: BNA ICV CAL@50ppm(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber:
Concentration: 50 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397601	BNA STOCK Std.B(DANGER)	40 ul	250 ppm	50 ppm
v-380193	8270 EXTRA MIX#1(2nd Source)(DANGER)	1 ul	10000 ppm	50 ppm
v-380075	Benzaldehyde Std (2nd source)	1 ul	10000 ppm	50 ppm
V-394768	BNA Internal Std.	4 ul	2000 ppm	40 ppm
14765	dichloromethane	154 ul	neat neat	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 9149

Description: Diphenyl Ether

ApprovedBy: akmal
ApproveDate: 12/15/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	240834-5g	MKBH5698V	12/12/14	12/31/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 9150

Description: Benzaldehyde

ApprovedBy: akmal
ApproveDate: 12/15/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	B1334-5g	MKBP5021V	12/12/14	12/31/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 9435

Description: 1,4-Dimethylnaphthalene

ApprovedBy: akmal
ApproveDate: 04/24/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	D170305-5G	STBD6188V	04/24/15	04/24/25	Hamid, Akmal	5	5G	95	%

Veritech Control/Receipt Number: 11341

Description: Acetophenone

ApprovedBy: akmal
ApproveDate: 12/26/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	42163-1ML-F	BCBV0864	12/20/17	12/20/25	Hamid, Akmal	1	1ML	NEAT	NEAT

Veritech Control/Receipt Number: 12019

Description: 2,4,6-Tribromophenol

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma- Aldrich	137715-5G	S55013V	09/28/18	07/08/29	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12021

Description: Nitrobenzene-d5

ApprovedBy: akmal
ApproveDate: 10/01/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma- Aldrich	151955-5G	MBBC0000V	10/01/18	07/08/29	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12507

Description: 1,4-Dichlorobenzene-D4

ApprovedBy: akmal
ApproveDate: 05/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL	DLM-268-0	PR-18488/08247CB1	05/20/19	06/07/27	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 12713

Description: Phenol-2,3,4,5,6-d5

ApprovedBy: akmal
ApproveDate: 08/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	425370-5G	MBBC4769	08/08/19	05/21/24	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12716

Description: 2-Fluorophenol

ApprovedBy: akmal
ApproveDate: 08/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	F12804-10G	STBH4989	08/08/19	05/21/28	Hamid, Akmal	1	10G	NEAT	NEAT

Veritech Control/Receipt Number: 12769

Description: Pyridine

ApprovedBy: janee
ApproveDate: 09/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Fisher	P368-1	190224	09/20/19	09/19/24	Wonge, Janee	1	1 L	neat	neat

Veritech Control/Receipt Number: 12783

Description: Pentachloroethane

ApprovedBy: akmal
ApproveDate: 09/24/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service Inc	N-12829-1G	8728100	09/24/19	12/31/23	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 12842

Description: 4,4'-DDT

ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	31041-100MG	BCBW0671	10/18/19	11/30/23	Hamid, Akmal	3	100M	NEAT	NEAT

Veritech Control/Receipt Number: 12843

Description: 1,2,4,5-Tetrachlorobenzene

ApprovedBy: akmal
ApproveDate: 03/04/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	131857-5G	MKCG5992	10/17/19	07/23/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12844

Description: Caprolactam

ApprovedBy: akmal
ApproveDate: 03/04/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	C2204-5G	MKCG1442	10/17/19	07/23/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 13086

Description: 2-Fluorobiphenyl

ApprovedBy: akmal
ApproveDate: 03/03/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	102741-10G	MKCK0527	03/03/20	08/31/30	Hamid, Akmal	1	10G	NEAT	NEAT

Veritech Control/Receipt Number: 13106

Description: 4,4' -DDE

ApprovedBy: akmal
ApproveDate: 03/10/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	RPN-10875-1G	9710700	03/10/20	02/28/25	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 13117

Description: Methylene Chloride optima

ApprovedBy: akmal
ApproveDate: 04/01/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Fisher	D1514	197501	03/13/20	01/31/25	Lopez, Jose	4	4L	neat	neat

Veritech Control/Receipt Number: 13494

Description: Biphenyl

ApprovedBy: akmal
ApproveDate: 09/11/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	35800-1G	BCBZ9522	09/11/20	12/31/23	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 13496

Description: Octadecane

ApprovedBy: akmal
ApproveDate: 09/11/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	O652-25G	MKCG6046	09/11/20	09/11/30	Hamid, Akmal	1	25G	NEAT	NEAT

Veritech Control/Receipt Number: 13602

Description: DFTPP STD.

ApprovedBy: akmal
ApproveDate: 11/13/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	442543	LRAC7179	11/12/20	07/23/23	Hamid, Akmal	1	100M	NEAT	NEAT

Veritech Control/Receipt Number: 13821

Description: 1,4 Dioxane

ApprovedBy: akmal
ApproveDate: 03/22/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-10220-1G	11271700	03/19/21	08/30/23	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 13897

Description: Acenaphthene-d10

ApprovedBy: akmal
ApproveDate: 04/28/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL	DLM-108-0	PR-30913	04/23/21	08/16/29	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14140

Description: EPA TCL Hazardous subs. Mix

ApprovedBy: akmal
ApproveDate: 08/16/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	47990-U	LRAC9004	08/16/21	02/28/24	Hamid, Akmal	1	1ML	2000	PPM

Veritech Control/Receipt Number: 14141

Description: p-Terphenyl-d14

ApprovedBy: akmal
ApproveDate: 08/16/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	364630-500MG	MBBD0055	08/16/21	08/16/30	Hamid, Akmal	5	500M	NEAT	NEAT

Veritech Control/Receipt Number: 14182

Description: Coumarin

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-11508	12354100	09/14/21	09/30/29	Hamid, Akmal	2	IG	NEAT	NEAT

Veritech Control/Receipt Number: 14183

Description: n-Decane

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	n-12526-1G	12277000	09/14/21	09/30/25	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14187

Description: 4,4'-DDD

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-10874-250MG	12359100	09/14/21	05/31/24	Hamid, Akmal	4	250M	NEAT	NEAT

Veritech Control/Receipt Number: 14204

Description: 1- Methylnaphthalene

ApprovedBy: Akmal
ApproveDate: 09/28/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	45795-250MG	BCCC3346	09/28/21	01/31/25	Hamid, Akmal	5	250M	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14222

Description: Atrazine

ApprovedBy: akmal
ApproveDate: 10/06/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	45330	BCBZ3835	09/30/21	08/31/23	Hamid, Akmal	2	250M	NEAT	NEAT

Veritech Control/Receipt Number: 14446

Description: Polynuclear Aromatic Hydrocarbons Mix.

ApprovedBy: akmal
ApproveDate: 02/11/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	CRM48905	LRAD0869	02/07/22	11/30/24	Hamid, Akmal	1	1ML	2000	PPM

Veritech Control/Receipt Number: 14569

Description: MEGAMIX

ApprovedBy: akmal
ApproveDate: 05/06/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
RESTEK	31850	A0182362	05/02/22	09/30/23	Hamid, Akmal	2	1ML	1000	PPM

Veritech Control/Receipt Number: 14570

Description: BENZOIC ACID

ApprovedBy: akmal
ApproveDate: 05/06/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
RESTEK	31879	A0176303	05/02/22	09/30/25	Hamid, Akmal	1	ML	2000	PPM

Veritech Control/Receipt Number: 14598

Description: EPA TCL Benzidines Mix

ApprovedBy: akmal
ApproveDate: 05/23/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Millipore Sigma	48906	LRAD1455	05/20/22	01/31/25	Hamid, Akmal	1	1ML	2000	PPM

Veritech Control/Receipt Number: 14703

Description: acetone

ApprovedBy: akmal
ApproveDate: 07/07/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9254-03	22D1162003	06/30/22	03/19/25	Lopez, Jose	48	4L	neat	neat

Veritech Control/Receipt Number: 14759

Description: Phenolics Mix

ApprovedBy: akmal
ApproveDate: 07/28/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Spex Certiprep	CLPS-A	AA191210005	07/28/22	07/25/25	Hamid, Akmal	2	1ML	2000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14765

Description: dichloromethane

ApprovedBy: akmal
ApproveDate: 08/16/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco/EMD	DX0831	62161	08/02/22	08/01/27	Lopez, Jose	100	4L	neat	neat

Veritech Control/Receipt Number: 14800

Description: ACETONE

ApprovedBy: akmal
ApproveDate: 08/31/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
JT.Baker	9254-03	22E1562001	08/30/22	05/02/25	Lopez, Jose	16	4L	neat	neat

Veritech Control/Receipt Number: 14801

Description: acetone

ApprovedBy: akmal
ApproveDate: 08/31/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9254-03	22D1162003	08/30/22	03/19/25	Lopez, Jose	32	4L	neat	neat

Veritech Control/Receipt Number: 14802

Description: Dichloromethane

ApprovedBy: akmal
ApproveDate: 09/09/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco/EMD	DX0831-1	62231	08/31/22	08/30/27	Lopez, Jose	100	4L	neat	neat

Veritech Control/Receipt Number: 14808

Description: 2,3,4,6-Tetrachlorophenol

ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	442282	LRAC9464	09/15/22	04/30/25	Hamid, Akmal	5	100M	NEAT	NEAT

Veritech Control/Receipt Number: 14864

Description: Methylene Chloride Optima-4L

ApprovedBy: akmal
ApproveDate: 09/29/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Fisher Chemical	D151-4	223493	09/28/22	08/31/27	Hamid, Akmal	4	4L	NEAT	NEAT

Veritech Control/Receipt Number: 15050

Description: EPA TCL Benzidines Mix

ApprovedBy: akmal
ApproveDate: 01/20/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco	48906	LRAD1455	01/20/23	01/31/25	Hamid, Akmal	2	1ML	2000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15082

Description: 1,4-Dioxane-D8

ApprovedBy: akmal
ApproveDate: 06/15/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL, Inc.	DLM-28-0	I-26030A	02/06/23	02/06/26	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 15084

Description: Naphthalene-D8

ApprovedBy: akmal
ApproveDate: 02/07/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL INC,	DLM-365-0	PR-30164/121418NP	02/06/23	01/04/29	Hamid, Akmal	1	IG	NEAT	NEAT

Veritech Control/Receipt Number: 15086

Description: Phenanthrene-d10

ApprovedBy: akmal
ApproveDate: 02/07/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL INC,	DLM-371-0	PR-29119	02/06/23	11/10/27	Hamid, Akmal	1	IG	NEAT	NEAT

Veritech Control/Receipt Number: 15087

Description: Chrysene-d12

ApprovedBy: akmal
ApproveDate: 05/02/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL INC,	DLM-261-0	PR33506	02/06/23	11/30/32	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 15088

Description: Perylene-d12

ApprovedBy: akmal
ApproveDate: 02/07/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL INC,	DLM-366-0	PR-31716	02/06/23	05/18/30	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 15169

Description: EPA TCL BASE-NEUTRALS Mix

ApprovedBy: akmal
ApproveDate: 03/23/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SIGMA ALDRICH	47991-U	LRAD4201	03/23/23	02/28/26	Hamid, Akmal	2	1ML	2000	PPM

Veritech Control/Receipt Number: 15268

Description: DDT - Endrin Mix

ApprovedBy: akmal
ApproveDate: 05/11/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma Aldrich	48282	LRAD4476	05/10/23	03/31/26	Hamid, Akmal	3	1ML	500	PPM

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-376959

Prepared By: Hamid, Akmal
Description: BNA Surrog.Std.
Prep Date: 7/28/2022
Expiration Date: 7/28/2023
Department: Organics
BatchNumber:
Concentration: 1000-2000 pp
Final Volume: 1000 ml
ApprovedBy: akmal
ApproveDate: 07/29/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
13086	2-Fluorobiphenyl	1 g	NEAT neat	1000 ppm
14141	p-Terphenyl-d14	1 g	NEAT neat	1000 ppm
12713	Phenol-2,3,4,5,6-d5	2 g	NEAT neat	2000 ppm
12019	2,4,6-Tribromophenol	2 g	NEAT neat	2000 ppm
12021	Nitrobenzene-d5	800 ul	NEAT neat	1000 ppm
12716	2-Fluorophenol	1.6 ml	NEAT neat	2000 ppm
14703	acetone	1000 ml	neat neat	

Veritech Lot Number: V-380075

Prepared By: Hamid, Akmal
Description: Benzaldehyde Std (2nd source)
Prep Date: 9/15/2022
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 25 ml
ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
9150	Benzaldehyde	.25 g	NEAT neat	10000 ppm
14801	acetone	25 ml	neat neat	

Veritech Lot Number: V-380193

Prepared By: Hamid, Akmal
Description: 8270 EXTRA MIX#1(2nd Source)(DAN
Prep Date: 9/16/2022
Expiration Date: 8/30/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 09/16/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12844	Caprolactam	.5 g	NEAT neat	10000 ppm
12843	1,2,4,5-Tetrachlorobenzene	.5 g	NEAT neat	10000 ppm
14222	Atrazine	.5 g	NEAT neat	10000 ppm
11341	Acetophenone	.5 g	NEAT neat	10000 ppm
9149	Diphenyl Ether	.5 g	NEAT neat	10000 ppm
14204	1- Methylnaphthalene	.5 g	NEAT neat	10000 ppm
13821	1,4 Dioxane	.5 g	NEAT neat	10000 ppm
14800	ACETONE	50 ml	neat neat	

Veritech Lot Number: V-380429

Prepared By: Hamid, Akmal
Description: 8270 EXTRA MIX#2A
Prep Date: 9/20/2022
Expiration Date: 9/20/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 25 ml
ApprovedBy: akmal
ApproveDate: 09/20/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14184	Carbazole	.25 g	NEAT neat	10000 ppm
14821	Biphenyl	.25 g	NEAT neat	10000 ppm
13496	Octadecane	.25 g	NEAT neat	10000 ppm
14182	Coumarin	.25 g	NEAT neat	10000 ppm
14183	n-Decane	.25 g	NEAT neat	10000 ppm
13659	PYRIDINE	.25 g	NEAT neat	10000 ppm
9435	1,4-Dimethylnaphthalene	.263 g	95 %	10000 ppm
14831	Pentachloroethane	.25 g	NEAT neat	10000 ppm
14801	acetone	25 ml	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-380075

Prepared By: Hamid, Akmal
Description: Benzaldehyde Std (2nd source)
Prep Date: 9/15/2022
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 25 ml
ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
9150	Benzaldehyde	.25 g	NEAT neat	10000 ppm
14801	acetone	25 ml	neat neat	

Veritech Lot Number: V-380193

Prepared By: Hamid, Akmal
Description: 8270 EXTRA MIX#1(2nd Source)(DAN
Prep Date: 9/16/2022
Expiration Date: 8/30/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 09/16/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12844	Caprolactam	.5 g	NEAT neat	10000 ppm
12843	1,2,4,5-Tetrachlorobenzene	.5 g	NEAT neat	10000 ppm
14222	Atrazine	.5 g	NEAT neat	10000 ppm
11341	Acetophenone	.5 g	NEAT neat	10000 ppm
9149	Diphenyl Ether	.5 g	NEAT neat	10000 ppm
14204	1- Methylnaphthalene	.5 g	NEAT neat	10000 ppm
13821	1,4 Dioxane	.5 g	NEAT neat	10000 ppm
14800	ACETONE	50 ml	neat neat	

Veritech Lot Number: V-380429

Prepared By: Hamid, Akmal
Description: 8270 EXTRA MIX#2A
Prep Date: 9/20/2022
Expiration Date: 9/20/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 25 ml
ApprovedBy: akmal
ApproveDate: 09/20/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14184	Carbazole	.25 g	NEAT neat	10000 ppm
14821	Biphenyl	.25 g	NEAT neat	10000 ppm
13496	Octadecane	.25 g	NEAT neat	10000 ppm
14182	Coumarin	.25 g	NEAT neat	10000 ppm
14183	n-Decane	.25 g	NEAT neat	10000 ppm
13659	PYRIDINE	.25 g	NEAT neat	10000 ppm
9435	1,4-Dimethylnaphthalene	.263 g	95 %	10000 ppm
14831	Pentachloroethane	.25 g	NEAT neat	10000 ppm
14801	acetone	25 ml	neat neat	

Veritech Lot Number: V-393504

Prepared By: Bis, Yolanta
Description: BN/TOXIC SOIL SPK.
Prep Date: 4/13/2023
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 1000 ppm
Final Volume: 4 ml
ApprovedBy: akmal
ApproveDate: 04/13/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15124	Base/Neutral Composite	2 ml	2000 ppm	1000 ppm
15125	Toxic Substances Mix #2	2 ml	2000 ppm	1000 ppm

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-393504

Prepared By: Bis, Yolanta
Description: BN/TOXIC SOIL SPK.
Prep Date: 4/13/2023
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 1000 ppm
Final Volume: 4 ml
ApprovedBy: akmal
ApproveDate: 04/13/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15124	Base/Neutral Composite	2 ml	2000 ppm	1000 ppm
15125	Toxic Substances Mix #2	2 ml	2000 ppm	1000 ppm

Veritech Lot Number: V-393505

Prepared By: Bis, Yolanta
Description: CLP MIX(SOIL)(DANGER)
Prep Date: 4/13/2023
Expiration Date: 8/30/2023
Department: Organics
BatchNumber:
Concentration: 1000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 04/13/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-380193	8270 EXTRA MIX#1(2nd Source)(DANGER)	1 ml	10000 ppm	1000 ppm
V-380429	8270 EXTRA MIX#2A	1 ml	10000 ppm	1000 ppm
V-380075	Benzaldehyde Std (2nd source)	1 ml	10000 ppm	1000 ppm
15160	ACETONE	7 ml	Neat neat	

Veritech Lot Number: V-396428

Prepared By: Bis, Yolanta
Description: CLP SPK (AQ)(DANGER)
Prep Date: 5/31/2023
Expiration Date: 8/30/2023
Department: Organics
BatchNumber:
Concentration: 2000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 06/01/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-380193	8270 EXTRA MIX#1(2nd Source)(DANGER)	2 ml	10000 ppm	2000 ppm
V-380429	8270 EXTRA MIX#2A	2 ml	10000 ppm	2000 ppm
V-380075	Benzaldehyde Std (2nd source)	2 ml	10000 ppm	2000 ppm
15275	acetone	4 ml	neat neat	

Veritech Lot Number: V-397499

Prepared By: User, Organics
Description: BAKED (PURIFIED) SODIUM SULFAT
Prep Date: 6/16/2023
Expiration Date: 7/22/2023
Department: Organics
BatchNumber:
Concentration: 4000 g
Final Volume: 4000 g
ApprovedBy: akmal
ApproveDate: 06/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15342	sodium sulfate	4000 g	neat neat	neat neat

Veritech Lot Number: V-397751

Prepared By: User, Organics
Description: BAKED sodium sulphate
Prep Date: 6/20/2023
Expiration Date: 7/22/2023
Department: Organics
BatchNumber:
Concentration: 4000 g
Final Volume: 4000 g
ApprovedBy: akmal
ApproveDate: 06/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15342	sodium sulfate	4000 g	neat neat	neat neat

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-397809

Prepared By:	Jones, Alexander	Department:	Organics	ApprovedBy:	akmal
Description:	1:1 Methylene Chloride/ Acetone	BatchNumber:		ApproveDate:	06/23/23
Prep Date:	6/21/2023	Concentration:	1:1	Checked:	Yes
Expiration Date:	6/30/2023	Final Volume:	4000 ml		

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15320	Dichloromethane	2000 ml	Neat neat	neat
15356	Acetone	2000 ml	Neat neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 9149

Description: Diphenyl Ether

ApprovedBy: akmal
ApproveDate: 12/15/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	240834-5g	MKBH5698V	12/12/14	12/31/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 9150

Description: Benzaldehyde

ApprovedBy: akmal
ApproveDate: 12/15/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	B1334-5g	MKBP5021V	12/12/14	12/31/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 9435

Description: 1,4-Dimethylnaphthalene

ApprovedBy: akmal
ApproveDate: 04/24/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	D170305-5G	STBD6188V	04/24/15	04/24/25	Hamid, Akmal	5	5G	95	%

Veritech Control/Receipt Number: 11341

Description: Acetophenone

ApprovedBy: akmal
ApproveDate: 12/26/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	42163-1ML-F	BCBV0864	12/20/17	12/20/25	Hamid, Akmal	1	1ML	NEAT	NEAT

Veritech Control/Receipt Number: 12019

Description: 2,4,6-Tribromophenol

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma- Aldrich	137715-5G	S55013V	09/28/18	07/08/29	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12021

Description: Nitrobenzene-d5

ApprovedBy: akmal
ApproveDate: 10/01/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma- Aldrich	151955-5G	MBBC0000V	10/01/18	07/08/29	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12713

Description: Phenol-2,3,4,5,6-d5

ApprovedBy: akmal
ApproveDate: 08/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	425370-5G	MBBC4769	08/08/19	05/21/24	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 9149

Description: Diphenyl Ether

ApprovedBy: akmal
ApproveDate: 12/15/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	240834-5g	MKBH5698V	12/12/14	12/31/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 9150

Description: Benzaldehyde

ApprovedBy: akmal
ApproveDate: 12/15/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	B1334-5g	MKBP5021V	12/12/14	12/31/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 9435

Description: 1,4-Dimethylnaphthalene

ApprovedBy: akmal
ApproveDate: 04/24/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	D170305-5G	STBD6188V	04/24/15	04/24/25	Hamid, Akmal	5	5G	95	%

Veritech Control/Receipt Number: 11341

Description: Acetophenone

ApprovedBy: akmal
ApproveDate: 12/26/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	42163-1ML-F	BCBV0864	12/20/17	12/20/25	Hamid, Akmal	1	1ML	NEAT	NEAT

Veritech Control/Receipt Number: 12843

Description: 1,2,4,5-Tetrachlorobenzene

ApprovedBy: akmal
ApproveDate: 03/04/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	131857-5G	MKCG5992	10/17/19	07/23/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12844

Description: Caprolactam

ApprovedBy: akmal
ApproveDate: 03/04/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	C2204-5G	MKCG1442	10/17/19	07/23/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 13496

Description: Octadecane

ApprovedBy: akmal
ApproveDate: 09/11/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	O652-25G	MKCG6046	09/11/20	09/11/30	Hamid, Akmal	1	25G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 12716

Description: 2-Fluorophenol

ApprovedBy: akmal
ApproveDate: 08/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	F12804-10G	STBH4989	08/08/19	05/21/28	Hamid, Akmal	1	10G	NEAT	NEAT

Veritech Control/Receipt Number: 12843

Description: 1,2,4,5-Tetrachlorobenzene

ApprovedBy: akmal
ApproveDate: 03/04/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	131857-5G	MKCG5992	10/17/19	07/23/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12844

Description: Caprolactam

ApprovedBy: akmal
ApproveDate: 03/04/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	C2204-5G	MKCG1442	10/17/19	07/23/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 13086

Description: 2-Fluorobiphenyl

ApprovedBy: akmal
ApproveDate: 03/03/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	102741-10G	MKCK0527	03/03/20	08/31/30	Hamid, Akmal	1	10G	NEAT	NEAT

Veritech Control/Receipt Number: 13496

Description: Octadecane

ApprovedBy: akmal
ApproveDate: 09/11/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	O652-25G	MKCG6046	09/11/20	09/11/30	Hamid, Akmal	1	25G	NEAT	NEAT

Veritech Control/Receipt Number: 13659

Description: PYRIDINE

ApprovedBy: jessica
ApproveDate: 12/10/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Fisher	P368-1	203790	12/10/20	12/09/30	Patel, Jessica	1	1 L	NEAT	NEAT

Veritech Control/Receipt Number: 13821

Description: 1,4 Dioxane

ApprovedBy: akmal
ApproveDate: 03/22/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-10220-1G	11271700	03/19/21	08/30/23	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 13659

Description: PYRIDINE

ApprovedBy: jessica
ApproveDate: 12/10/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Fisher	P368-1	203790	12/10/20	12/09/30	Patel, Jessica	1	1 L	NEAT	NEAT

Veritech Control/Receipt Number: 13821

Description: 1,4 Dioxane

ApprovedBy: akmal
ApproveDate: 03/22/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-10220-1G	11271700	03/19/21	08/30/23	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14182

Description: Coumarin

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-11508	12354100	09/14/21	09/30/29	Hamid, Akmal	2	IG	NEAT	NEAT

Veritech Control/Receipt Number: 14183

Description: n-Decane

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	n-12526-1G	12277000	09/14/21	09/30/25	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14184

Description: Carbazole

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-11403-1G	12358900	09/14/21	10/31/25	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14204

Description: 1- Methylnaphthalene

ApprovedBy: Akmal
ApproveDate: 09/28/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	45795-250MG	BCCC3346	09/28/21	01/31/25	Hamid, Akmal	5	250M	NEAT	NEAT

Veritech Control/Receipt Number: 14222

Description: Atrazine

ApprovedBy: akmal
ApproveDate: 10/06/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	45330	BCBZ3835	09/30/21	08/31/23	Hamid, Akmal	2	250M	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14141

Description: p-Terphenyl-d14

ApprovedBy: akmal
ApproveDate: 08/16/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	364630-500MG	MBBD0055	08/16/21	08/16/30	Hamid, Akmal	5	500M	NEAT	NEAT

Veritech Control/Receipt Number: 14182

Description: Coumarin

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-11508	12354100	09/14/21	09/30/29	Hamid, Akmal	2	IG	NEAT	NEAT

Veritech Control/Receipt Number: 14183

Description: n-Decane

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	n-12526-1G	12277000	09/14/21	09/30/25	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14184

Description: Carbazole

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-11403-1G	12358900	09/14/21	10/31/25	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14204

Description: 1- Methylnaphthalene

ApprovedBy: Akmal
ApproveDate: 09/28/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	45795-250MG	BCCC3346	09/28/21	01/31/25	Hamid, Akmal	5	250M	NEAT	NEAT

Veritech Control/Receipt Number: 14222

Description: Atrazine

ApprovedBy: akmal
ApproveDate: 10/06/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	45330	BCBZ3835	09/30/21	08/31/23	Hamid, Akmal	2	250M	NEAT	NEAT

Veritech Control/Receipt Number: 14703

Description: acetone

ApprovedBy: akmal
ApproveDate: 07/07/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9254-03	22D1162003	06/30/22	03/19/25	Lopez, Jose	48	4L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14800

Description: ACETONE

ApprovedBy: akmal
ApproveDate: 08/31/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
JT.Baker	9254-03	22E1562001	08/30/22	05/02/25	Lopez, Jose	16	4L	neat	neat

Veritech Control/Receipt Number: 14801

Description: acetone

ApprovedBy: akmal
ApproveDate: 08/31/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9254-03	22D1162003	08/30/22	03/19/25	Lopez, Jose	32	4L	neat	neat

Veritech Control/Receipt Number: 14821

Description: Biphenyl

ApprovedBy: akmal
ApproveDate: 09/16/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	35800-1G	BCCF1061	09/16/22	10/31/25	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14831

Description: Pentachloroethane

ApprovedBy: akmal
ApproveDate: 09/19/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem-Service	N-12829-250MG	12860800	09/19/22	12/31/23	Hamid, Akmal	2	250M	NEAT	NEAT

Veritech Control/Receipt Number: 15124

Description: Base/Neutral Composite

ApprovedBy: jean
ApproveDate: 02/23/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ACCUSTANDAR	CLP-HC-BN-PAK	222041298-01	02/23/23	02/20/24	Revolus, Jean	20	1ml	2000	PPM

Veritech Control/Receipt Number: 15125

Description: Toxic Substances Mix #2

ApprovedBy: jean
ApproveDate: 02/23/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ACCUSTANDAR	Z-014E-PAK	222041218	02/23/23	05/13/24	Revolus, Jean	4	1ml	2000	PPM

Veritech Control/Receipt Number: 15160

Description: ACETONE

ApprovedBy: akmal
ApproveDate: 03/20/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
TEDIA	AA1111	22070110	03/16/23	03/15/28	Lopez, Jose	40	4L	Neat	Neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15320

Description: Dichloromethane

ApprovedBy: akmal
ApproveDate: 06/01/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco / EMD	DX0831	63104	05/30/23	05/29/28	Cajuste, Pierre	120	4L	Neat	Neat

Veritech Control/Receipt Number: 15342

Description: sodium sulfate

ApprovedBy: akmal
ApproveDate: 06/07/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Allan Corp.	6399	208404	06/05/23	06/04/28	Lopez, Jose	6	100L	neat	neat

Veritech Control/Receipt Number: 15356

Description: Acetone

ApprovedBy: akmal
ApproveDate: 06/12/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
TEDIA	AA1111	22070110	06/09/23	07/23/24	Cajuste, Pierre	80	4 L	Neat	Neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15275

Description: acetone

ApprovedBy: akmal
ApproveDate: 05/16/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Tedia	AA1111	22070110	05/15/23	07/23/24	Lopez, Jose	48	4L	neat	neat

Veritech Control/Receipt Number: 15320

Description: Dichloromethane

ApprovedBy: akmal
ApproveDate: 06/01/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco / EMD	DX0831	63104	05/30/23	05/29/28	Cajuste, Pierre	120	4L	Neat	Neat

Veritech Control/Receipt Number: 15342

Description: sodium sulfate

ApprovedBy: akmal
ApproveDate: 06/07/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Allan Corp.	6399	208404	06/05/23	06/04/28	Lopez, Jose	6	100L	neat	neat

Veritech Control/Receipt Number: 15356

Description: Acetone

ApprovedBy: akmal
ApproveDate: 06/12/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
TEDIA	AA1111	22070110	06/09/23	07/23/24	Cajuste, Pierre	80	4 L	Neat	Neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15283

Description: Acid Composite Mixture

ApprovedBy: jean
ApproveDate: 05/17/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ACCUSTANDAR	CLP-HC-A-R-PAK	222111297	05/17/23	11/30/25	Revolus, Jean	20	1ml	2000	PPM

Veritech Control/Receipt Number: 15320

Description: Dichloromethane

ApprovedBy: akmal
ApproveDate: 06/01/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco / EMD	DX0831	63104	05/30/23	05/29/28	Cajuste, Pierre	120	4L	Neat	Neat

Veritech Control/Receipt Number: 15356

Description: Acetone

ApprovedBy: akmal
ApproveDate: 06/12/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
TEDIA	AA1111	22070110	06/09/23	07/23/24	Cajuste, Pierre	80	4 L	Neat	Neat

Veritech Control/Receipt Number: 15357

Description: Dichloromethane

ApprovedBy: akmal
ApproveDate: 06/13/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco/EMD	DX0831	63083	06/12/23	06/11/28	Lopez, Jose	100	4L	neat	neat

GC PCB Data

GC PCB Data
QC Summary

FORM2

Surrogate Recovery

Method: EPA 8082A

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column2 S2 Recov	Column1 S3 Recov	Column2 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
2G178094.D	SMB108890	S	06/25/23 23:21	1		110	107	71	68		
2G178089.D	AD38586-001	S	06/25/23 22:22	1		111	107	74	71		
2G178088.D	AD38586-002	S	06/25/23 22:11	1		125	121	80	78		
2G178091.D	AD38586-007(MS:AD38	S	06/25/23 22:46	1		146	139	94	91		
2G178090.D	AD38586-008(MSD:AD3	S	06/25/23 22:34	1		133	129	94	97		
2G178092.D	SMB108890(MS)	S	06/25/23 22:58	1		114	113	74	72		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8082A

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=TCMX-Surrogate	100	13-171
S2=TCMX-Surrogate	100	13-171
S3=DCB-Surrogate	100	10-186
S4=DCB-Surrogate	100	10-186

Form3
Recovery Data Laboratory Limits
QC Batch: SMB108890

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2G178092.D	SMB108890(MS)	6/25/2023 10:58:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	912.278	0	1000	91	16	196
Aroclor-1260 -Total	1	883.404	0	1000	88	10	202

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form

Form3
Recovery Data Laboratory Limits
QC Batch: SMB108890

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2G178090.D	AD38586-008(MSD:AD38586-0	6/25/2023 10:34:00 PM
Non Spike(If applicable):	2G178089.D	AD38586-001	6/25/2023 10:22:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	1079.11	0	1000	108	16	196
Aroclor-1260 -Total	1	1039.344	0	1000	104	10	202

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2G178091.D	AD38586-007(MS:AD38586-00	6/25/2023 10:46:00 PM
Non Spike(If applicable):	2G178089.D	AD38586-001	6/25/2023 10:22:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	1251.726	0	1000	125	16	196
Aroclor-1260 -Total	1	1108.832	0	1000	111	10	202

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form

Form3
RPD Data Laboratory Limits
QC Batch: SMB108890

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2G178090.D	AD38586-008(MSD:AD38586-0	6/25/2023 10:34:00 PM
Duplicate(If applicable):	2G178091.D	AD38586-007(MS:AD38586-00	6/25/2023 10:46:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Aroclor-1016 -Total	1	1079.11	1251.726	15	52
Aroclor-1260 -Total	1	1039.344	1108.832	6.5	52

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB108890
Blank Data File: 2G178094.D
Matrix: Soil

Blank Analysis Date: 06/25/23 23:21
Blank Extraction Date: 06/23/23
(If Applicable)
Method: EPA 8082A

Sample Number	Data File	Analysis Date
AD38586-001	2G178089.D	06/25/23 22:22
AD38586-002	2G178088.D	06/25/23 22:11
AD38586-007(MS:	2G178091.D	06/25/23 22:46
AD38586-008(MSD	2G178090.D	06/25/23 22:34
SMB108890(MS)	2G178092.D	06/25/23 22:58

Form 5

Method: EPA 8082A

Instrument: GC_2 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
2G176266.D	CAL 3268@500PPB	05/17/23 11:42	Soil	2G17627	8.5912	0	8.9269	0.0134
2G176267.D	CAL 1242@500PPB	05/17/23 11:54	Soil	2G17627	8.5914	0.0023	8.9246	0.0123
2G176268.D	CAL 1248@500PPB	05/17/23 12:05	Soil	2G17627	8.5912	0	8.9255	0.0022
2G176269.D	CAL 2154@500PPB	05/17/23 12:17	Soil	2G17627	8.5914	0.0023	8.9259	0.0022
2G176270.D	CAL 1262@500PPB	05/17/23 12:29	Soil	2G17627	8.5919	0.0081	8.9274	0.019
2G176271.D	CAL 1660@50PPB	05/17/23 12:41	Soil	2G17627	8.5912	0	8.9257	0
2G176272.D	1660@50PPB	05/17/23 12:52	Soil	2G17627	8.5903	0.0105	8.9258	0.0011
2G176273.D	CAL 1660@200PPB	05/17/23 13:04	Soil	2G17627	8.5897	0.0175	8.9247	0.0112
2G176274.D	CAL 1660@500PPB	05/17/23 13:16	Soil	2G17627	8.5913	0.0012	8.9267	0.0112
2G176275.D	CAL 1660@1000PPB	05/17/23 13:28	Soil	2G17627	8.5900	0.014	8.9251	0.0067
2G176276.D	CAL 1660@2000PPB	05/17/23 13:39	Soil	2G17627	8.5911	0.0012	8.9269	0.0134
2G176277.D	CAL 1660@4000PPB	05/17/23 13:51	Soil	2G17627	8.5904	0.0093	8.9258	0.0011
2G176278.D	PEST WS	05/17/23 14:42	Soil	2G17627	0.0000	200 *	0.0000	200 *
2G176279.D	TEST	05/17/23 14:54	Soil	2G17627	8.5957	0.0524	8.9283	0.0291
2G176280.D	TEST	05/17/23 15:06	Soil	2G17627	8.5934	0.0256	8.9275	0.0202
2G176281.D	ICV	05/17/23 16:57	Soil	2G17627	8.6081	0.1965	8.9322	0.0728

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8082A

Instrument: GC_2 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
2G178030.D	CAL 1660@1000PPB	06/25/23 10:03	Soil	2G17803	8.6075	0	8.9341	0
2G178031.D	SMB108897	06/25/23 10:22	Soil	2G17803	8.6040	0.0407	8.9312	0.0325
2G178032.D	SMB108897(MS)	06/25/23 10:34	Soil	2G17803	8.5944	0.1523	8.9291	0.056
2G178033.D	AD38584-024(MS)	06/25/23 11:24	Soil	2G17803	8.6088	0.0151	8.9339	0.0022
2G178034.D	AD38584-024(MSD)	06/25/23 11:35	Soil	2G17803	8.5945	0.1512	8.9282	0.0661
2G178035.D	AD38584-024	06/25/23 11:47	Soil	2G17803	8.5929	0.1698	8.9268	0.0817
2G178036.D	AD38584-026	06/25/23 11:59	Soil	2G17803	8.5910	0.1919	8.9272	0.0773
2G178037.D	AD38584-028	06/25/23 12:11	Soil	2G17803	8.5906	0.1965	8.9267	0.0829
2G178038.D	AD38584-036	06/25/23 12:22	Soil	2G17803	8.5900	0.2035	8.9266	0.084
2G178039.D	AD38584-038	06/25/23 12:34	Soil	2G17803	8.5905	0.1977	8.9272	0.0773
2G178040.D	AD38584-040	06/25/23 12:46	Soil	2G17803	8.5738	0.3923	8.9094	0.2769
2G178041.D	AD38584-042	06/25/23 12:58	Soil	2G17803	8.5900	0.2035	8.9262	0.0885
2G178042.D	AD38584-044	06/25/23 13:09	Soil	2G17803	8.5893	0.2117	8.9263	0.0873
2G178043.D	AD38584-046	06/25/23 13:21	Soil	2G17803	8.5903	0.2	8.9274	0.075
2G178044.D	AD38590-001	06/25/23 13:33	Soil	2G17803	8.5893	0.2117	8.9262	0.0885
2G178045.D	AD38590-003	06/25/23 13:45	Soil	2G17803	8.5902	0.2012	8.9252	0.0997
2G178046.D	AD38590-005	06/25/23 13:56	Soil	2G17803	8.5888	0.2175	8.9258	0.0929
2G178047.D	AD38590-007	06/25/23 14:08	Soil	2G17803	8.5885	0.221	8.9250	0.1019
2G178048.D	AD38590-009	06/25/23 14:20	Soil	2G17803	8.5885	0.221	8.9246	0.1064
2G178049.D	AD38590-011	06/25/23 14:32	Soil	2G17803	8.5888	0.2175	8.9266	0.084
2G178050.D	AD38590-013	06/25/23 14:43	Soil	2G17803	8.5892	0.2128	8.9265	0.0851
2G178051.D	CAL 1660@1000PPB	06/25/23 14:55	Soil	2G17803	8.5884	0.2221	8.9245	0.1075
2G178052.D	CAL 1660@1000PPB	06/25/23 15:07	Soil	2G17805	8.5888	0.0047	8.9256	0.0123
2G178053.D	AD38590-015	06/25/23 15:19	Soil	2G17805	8.5876	0.0093	8.9235	0.0112
2G178054.D	AD38590-017	06/25/23 15:30	Soil	2G17805	8.5875	0.0105	8.9229	0.0179
2G178055.D	AD38590-019	06/25/23 15:42	Soil	2G17805	8.5889	0.0058	8.9251	0.0067
2G178056.D	AD38590-021	06/25/23 15:54	Soil	2G17805	8.5878	0.007	8.9239	0.0067
2G178057.D	SMB108891	06/25/23 16:06	Soil	2G17805	8.5887	0.0035	8.9247	0.0022
2G178058.D	SMB108891(MS)	06/25/23 16:18	Soil	2G17805	8.5888	0.0047	8.9261	0.0179
2G178059.D	AD38582-001(MS)	06/25/23 16:29	Soil	2G17805	8.5891	0.0082	8.9267	0.0246
2G178060.D	AD38582-001(MSD)	06/25/23 16:41	Soil	2G17805	8.5892	0.0093	8.9252	0.0078
2G178061.D	AD38582-001	06/25/23 16:53	Soil	2G17805	8.5885	0.0012	8.9255	0.0112
2G178062.D	AD38582-002	06/25/23 17:05	Soil	2G17805	8.5885	0.0012	8.9252	0.0078
2G178063.D	AD38582-003	06/25/23 17:16	Soil	2G17805	8.5892	0.0093	8.9249	0.0045
2G178064.D	AD38582-004	06/25/23 17:28	Soil	2G17805	8.5887	0.0035	8.9242	0.0034
2G178065.D	AD38584-006	06/25/23 17:40	Soil	2G17805	8.5896	0.014	8.9266	0.0235
2G178066.D	AD38584-008	06/25/23 17:52	Soil	2G17805	8.5900	0.0186	8.9259	0.0157
2G178067.D	AD38584-010	06/25/23 18:03	Soil	2G17805	8.5886	0.0023	8.9252	0.0078
2G178068.D	AD38584-012	06/25/23 18:15	Soil	2G17805	8.5893	0.0105	8.9252	0.0078
2G178069.D	AD38584-014	06/25/23 18:27	Soil	2G17805	8.5889	0.0058	8.9259	0.0157
2G178070.D	AD38584-016	06/25/23 18:39	Soil	2G17805	8.5888	0.0047	8.9257	0.0134
2G178071.D	AD38633-084	06/25/23 18:51	Soil	2G17805	8.5892	0.0093	8.9259	0.0157
2G178072.D	AD38633-079	06/25/23 19:02	Soil	2G17805	8.5897	0.0151	8.9261	0.0179
2G178073.D	CAL 1660@1000PPB	06/25/23 19:14	Soil	2G17805	8.5887	0.0035	8.9217	0.0314
2G178074.D	CAL 1660@1000PPB	06/25/23 19:26	Soil	2G17807	8.5882	0.0058	8.9233	0.0179
2G178075.D	AD38633-074	06/25/23 19:38	Soil	2G17807	8.5882	0.0058	8.9254	0.0415
2G178076.D	AD38633-069	06/25/23 19:49	Soil	2G17807	8.5883	0.0047	8.9251	0.0381
2G178077.D	AD38675-003	06/25/23 20:01	Soil	2G17807	8.5886	0.0012	8.9250	0.037
2G178078.D	AD38633-064	06/25/23 20:13	Soil	2G17807	8.5872	0.0175	8.9251	0.0381
2G178079.D	AD38633-059	06/25/23 20:25	Soil	2G17807	8.5878	0.0105	8.9246	0.0325
2G178080.D	AD38633-054	06/25/23 20:36	Soil	2G17807	8.5890	0.0035	8.9262	0.0504
2G178081.D	AD38633-049	06/25/23 20:48	Soil	2G17807	8.5829	0.0676	8.9207	0.0112
2G178082.D	AD38633-044	06/25/23 21:00	Soil	2G17807	8.5879	0.0093	8.9247	0.0336
2G178083.D	AD38633-039	06/25/23 21:12	Soil	2G17807	8.5883	0.0047	8.9254	0.0415
2G178084.D	AD38633-034	06/25/23 21:23	Soil	2G17807	8.5880	0.0082	8.9251	0.0381
2G178085.D	AD38633-014	06/25/23 21:35	Soil	2G17807	8.5869	0.021	8.9242	0.028
2G178086.D	AD38633-009	06/25/23 21:47	Soil	2G17807	8.5869	0.021	8.9232	0.0168
2G178087.D	AD38633-004	06/25/23 21:59	Soil	2G17807	8.5883	0.0047	8.9243	0.0291
2G178088.D	AD38586-002	06/25/23 22:11	Soil	2G17807	8.5869	0.021	8.9236	0.0213
2G178089.D	AD38586-001	06/25/23 22:22	Soil	2G17807	8.5872	0.0175	8.9249	0.0359
2G178090.D	AD38586-008(MSD:AD3	06/25/23 22:34	Soil	2G17807	8.5873	0.0163	8.9249	0.0359
2G178091.D	AD38586-007(MS:AD38	06/25/23 22:46	Soil	2G17807	8.5878	0.0105	8.9240	0.0258
2G178092.D	SMB108890(MS)	06/25/23 22:58	Soil	2G17807	8.5883	0.0047	8.9245	0.0314
2G178093.D	AD38633-029	06/25/23 23:10	Soil	2G17807	8.5876	0.0128	8.9239	0.0247
2G178094.D	SMB108890	06/25/23 23:21	Soil	2G17807	8.5854	0.0384	8.9127	0.1009

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8082A

Instrument: GC_2 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
2G178095.D	CAL 1660@1000PPB	06/25/23 23:33	Soil	2G17807	8.5879	0.0093	8.9161	0.0628
2G178096.D	CAL 1660@1000PPB	06/25/23 23:45	Soil	2G17809	8.5879	0	8.9248	0.0975
2G178097.D	AD38633-024	06/25/23 23:57	Soil	2G17809	8.5879	0	8.9244	0.0931
2G178098.D	AD38633-019	06/26/23 00:08	Soil	2G17809	8.5876	0.0035	8.9238	0.0863
2G178099.D	AD38618-001	06/26/23 00:20	Soil	2G17809	8.5878	0.0012	8.9252	0.102
2G178100.D	AD38675-004(2X)	06/26/23 00:32	Soil	2G17809	8.5875	0.0047	8.9238	0.0863
2G178101.D	AD38675-001(2X)	06/26/23 00:44	Soil	2G17809	8.5869	0.0116	8.9245	0.0942
2G178102.D	AD3867-005(2X)	06/26/23 00:55	Soil	2G17809	8.5884	0.0058	8.9254	0.1043
2G178103.D	CAL 1660@1000PPB	06/26/23 01:07	Soil	2G17809	8.5892	0.0151	8.9260	0.111
2G178104.D	CAL 1660@1000PPB	06/26/23 01:19	Soil	2G17809	8.5887	0.0093	8.9251	0.1009

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

GC PCB Data
Sample Data

Form1

ORGANICS PCB REPORT

Sample Number: AD38586-001
Client Id: HB-1 +QA\QC
Data File: 2G178089.D
Analysis Date: 06/25/23 22:22
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.030	U	11097-69-1	Aroclor-1254	0.030	U
11104-28-2	Aroclor-1221	0.030	U	11096-82-5	Aroclor-1260	0.030	U
11141-16-5	Aroclor-1232	0.030	U	37324-23-5	Aroclor-1262	0.030	U
53469-21-9	Aroclor-1242	0.030	U	11100-14-4	Aroclor-1268	0.030	U
12672-29-6	Aroclor-1248	0.030	U	1336-36-3	Aroclor (Total)	0.030	U

Worksheet #: 696318

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-25-23\
Data File : 2G178089.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2023 22:22
Operator : AH/PR/KM
Sample : AD38586-001
Misc : S,PCB
ALS Vial : 58 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 11:06:51 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
	Target Compounds						
1)	TCMX-Surrogate	3.210	3.174	935.7E6	1373.9E6	110.581	107.137m
45)	DCB-Surrogate	8.587	8.925	526.4E6	753.7E6	73.678	70.820

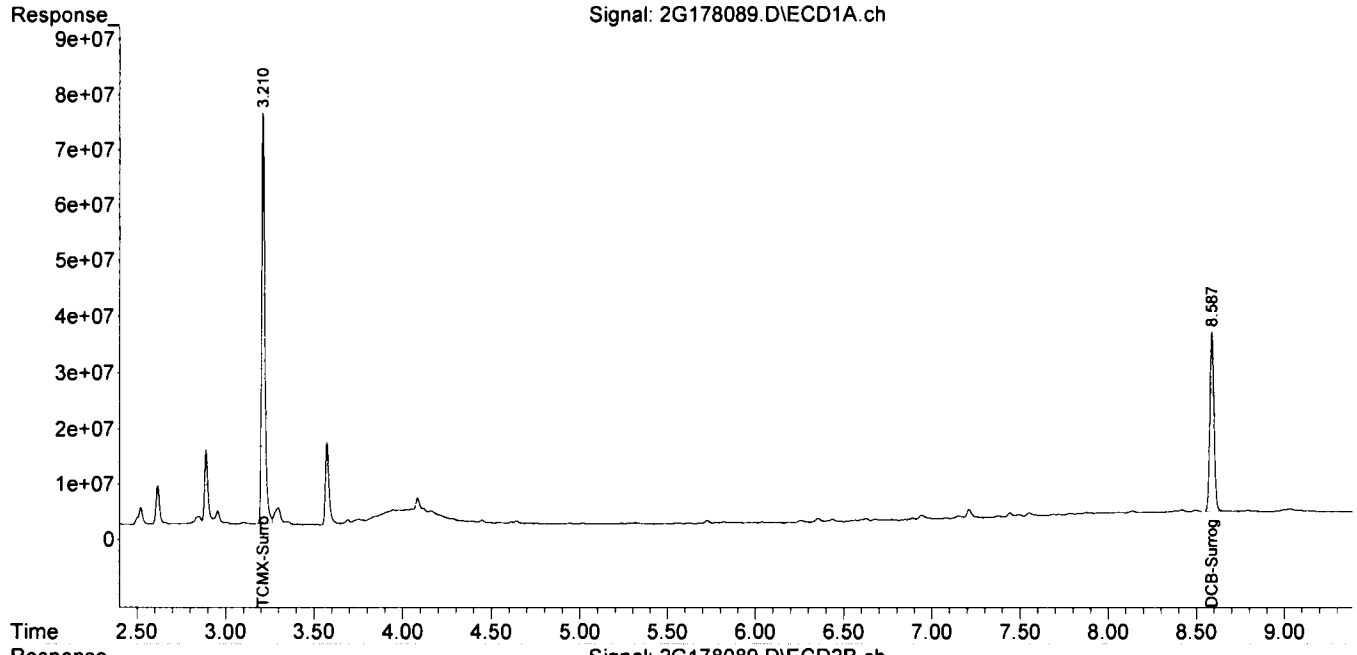
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

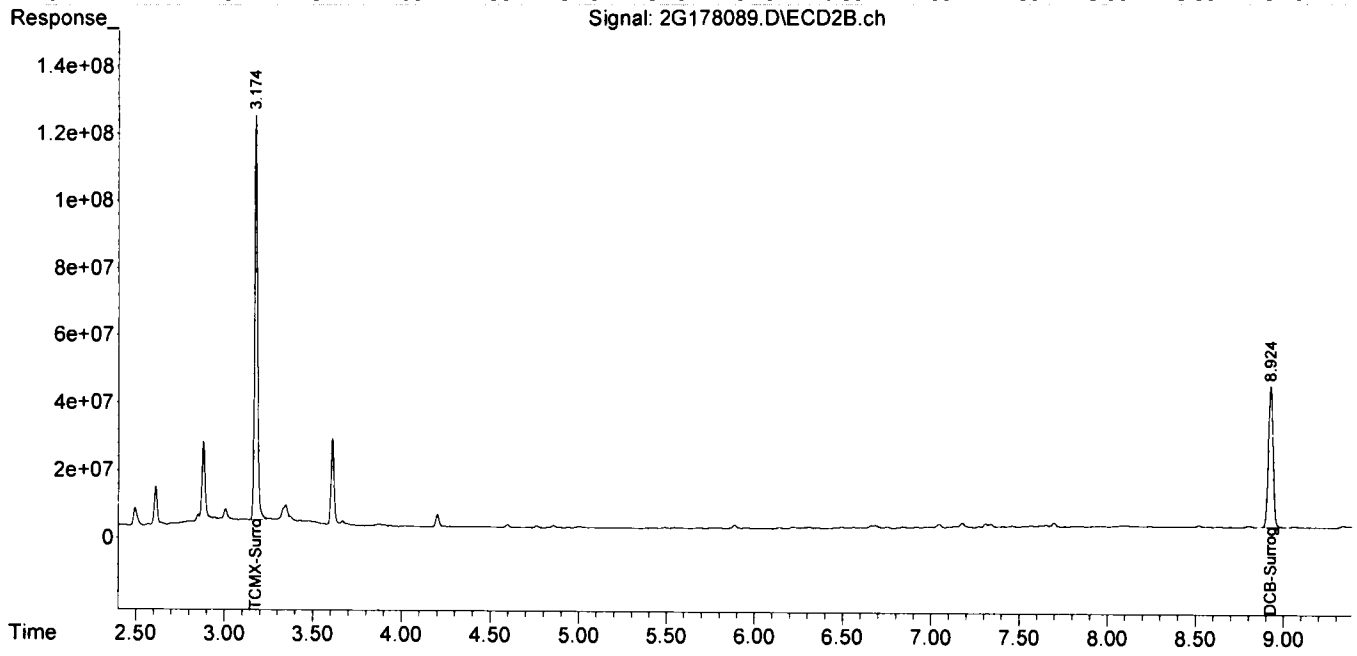
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-25-23\
Data File : 2G178089.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2023 22:22
Operator : AH/PR/KM
Sample : AD38586-001
Misc : S,PCB
ALS Vial : 58 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 11:06:51 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Form1

ORGANICS PCB REPORT

Sample Number: AD38586-002
Client Id: DUP
Data File: 2G178088.D
Analysis Date: 06/25/23 22:11
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 73

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.034	U	11097-69-1	Aroclor-1254	0.034	U
11104-28-2	Aroclor-1221	0.034	U	11096-82-5	Aroclor-1260	0.034	U
11141-16-5	Aroclor-1232	0.034	U	37324-23-5	Aroclor-1262	0.034	U
53469-21-9	Aroclor-1242	0.034	U	11100-14-4	Aroclor-1268	0.034	U
12672-29-6	Aroclor-1248	0.034	U	1336-36-3	Aroclor (Total)	0.034	U

Worksheet #: 696318

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-25-23\
Data File : 2G178088.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2023 22:11
Operator : AH/PR/KM
Sample : AD38586-002
Misc : S,PCB
ALS Vial : 57 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 11:06:26 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
	Target Compounds						
1)	TCMX-Surrogate	3.211	3.174	1054.0E6	1552.7E6	124.560	121.080m
45)	DCB-Surrogate	8.587	8.924	575.1E6	825.4E6	80.490	77.554

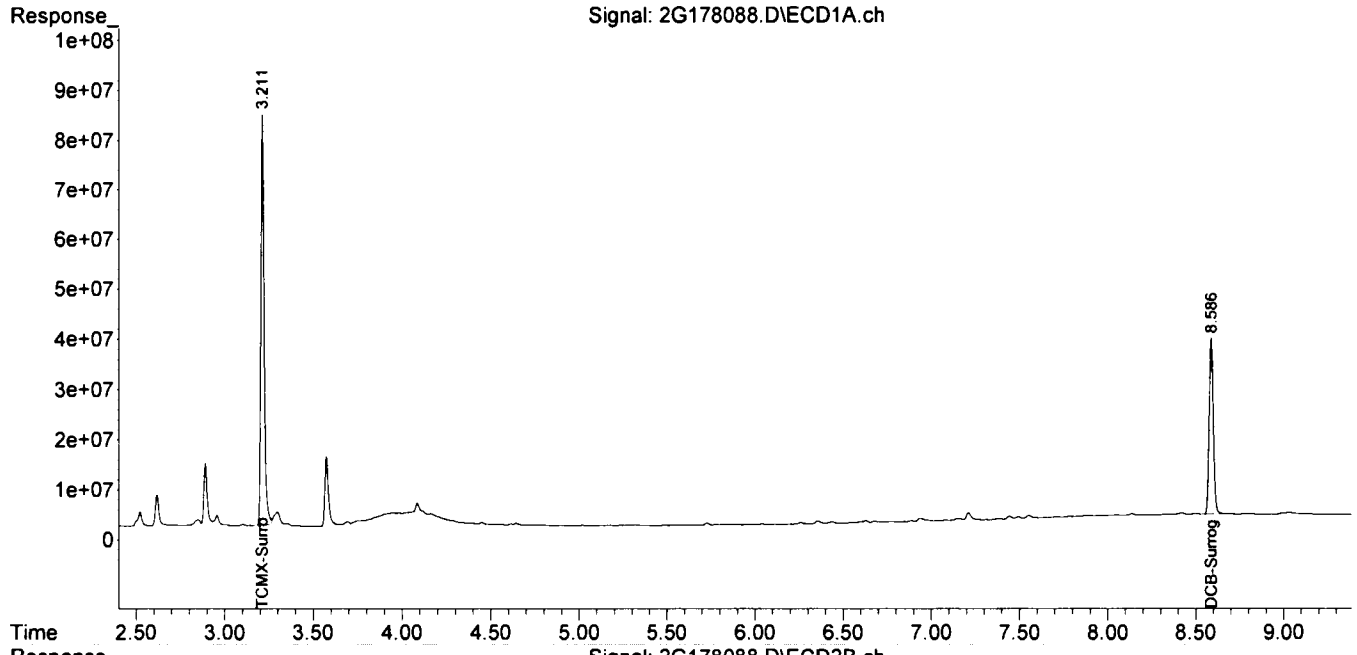
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

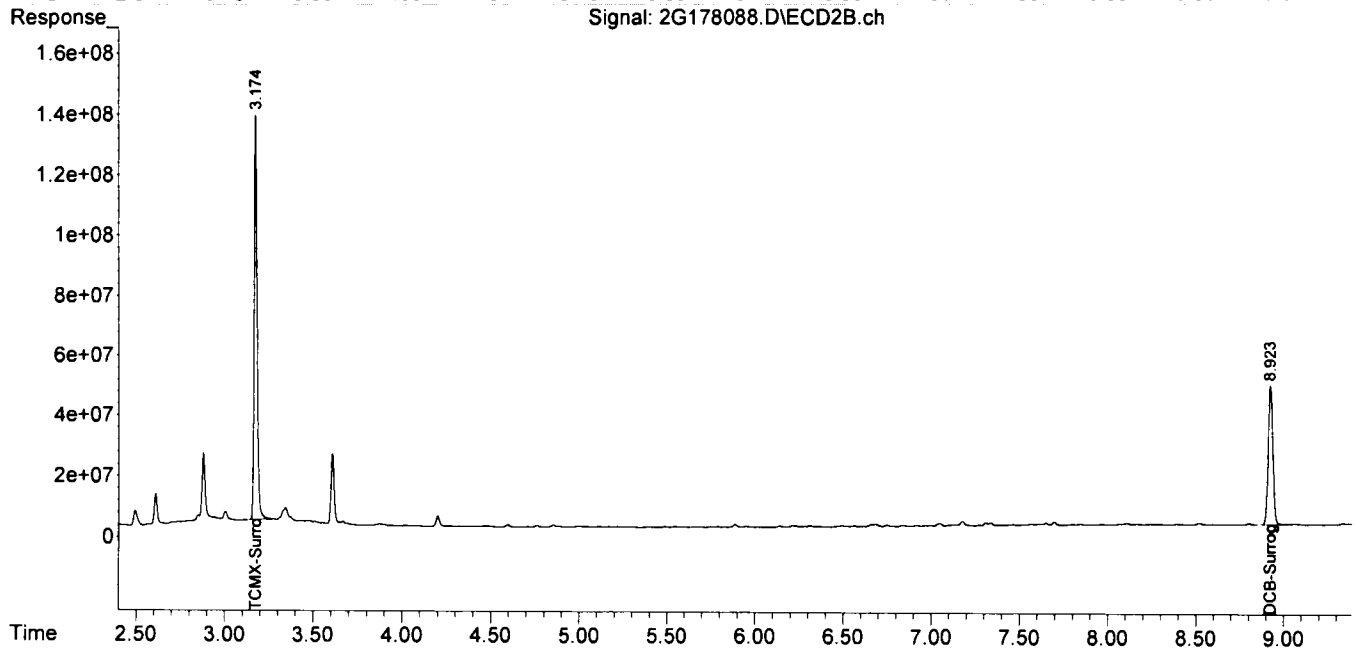
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-25-23\
Data File : 2G178088.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2023 22:11
Operator : AH/PR/KM
Sample : AD38586-002
Misc : S,PCB
ALS Vial : 57 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 11:06:26 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Form1

ORGANICS PCB REPORT

Sample Number: AD38586-007(MS:AD38
Client Id: HB-1 +QA\QC MS
Data File: 2G178091.D
Analysis Date: 06/25/23 22:46
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 82

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	**Aroclor-1016**	**0.030**	**0.74**	11097-69-1	Aroclor-1254	0.030	U
11104-28-2	Aroclor-1221	0.030	U	**11096-82-5**	**Aroclor-1260**	**0.030**	**0.68**
11141-16-5	Aroclor-1232	0.030	U	37324-23-5	Aroclor-1262	0.030	U
53469-21-9	Aroclor-1242	0.030	U	11100-14-4	Aroclor-1268	0.030	U
12672-29-6	Aroclor-1248	0.030	U	**1336-36-3**	**Aroclor (Total)**	**0.030**	**1.4**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-25-23\
Data File : 2G178091.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2023 22:46
Operator : AH/PR/KM
Sample : AD38586-007(MS:AD38586-001) (Sig #1); AD38586-007(MS) (Sig #2)
Misc : S,PCB
ALS Vial : 60 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 15:08:14 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.210	3.174	1234.3E6	1778.2E6	145.867	138.667
2)Aroclor-1016 {1}	3.666	3.707	154.7E6	214.5E6	1202.209m	1157.652
3)Aroclor-1016 {2}	3.991	4.073	350.8E6	530.8E6	1121.031m	1126.300
4)Aroclor-1016 {3}	4.405	4.409	803.3E6	730.5E6	1295.404	1146.773
5)Aroclor-1016 {4}	4.616	4.560	249.1E6	384.9E6	1246.215	1153.415
6)Aroclor-1016 {5}	4.691	4.689	162.5E6	493.2E6	1165.723	1139.522
7)Aroclor-1260 {1}	6.036	6.138	420.8E6	683.2E6	1094.447	1063.455
8)Aroclor-1260 {2}	6.257	6.212	508.7E6	757.5E6	1134.416	1126.464
9)Aroclor-1260 {3}	6.676	7.055	198.5E6	512.3E6	1030.126	1112.255
10)Aroclor-1260 {4}	6.932	7.651	389.5E6	560.9E6	1214.881	1031.057
11)Aroclor-1260 {5}	7.553	8.111	548.7E6	305.6E6	1070.275	946.865
45)DCB-Surrogate	8.588	8.924	669.9E6	963.9E6	93.758	90.572

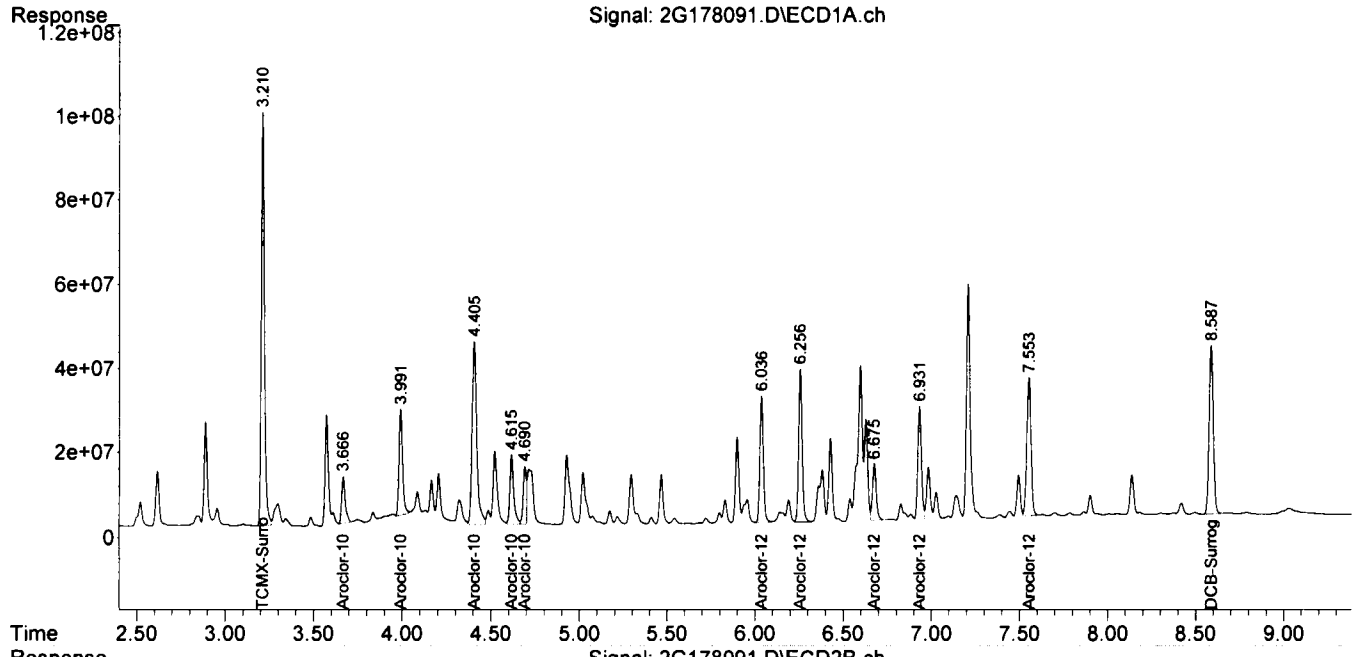
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

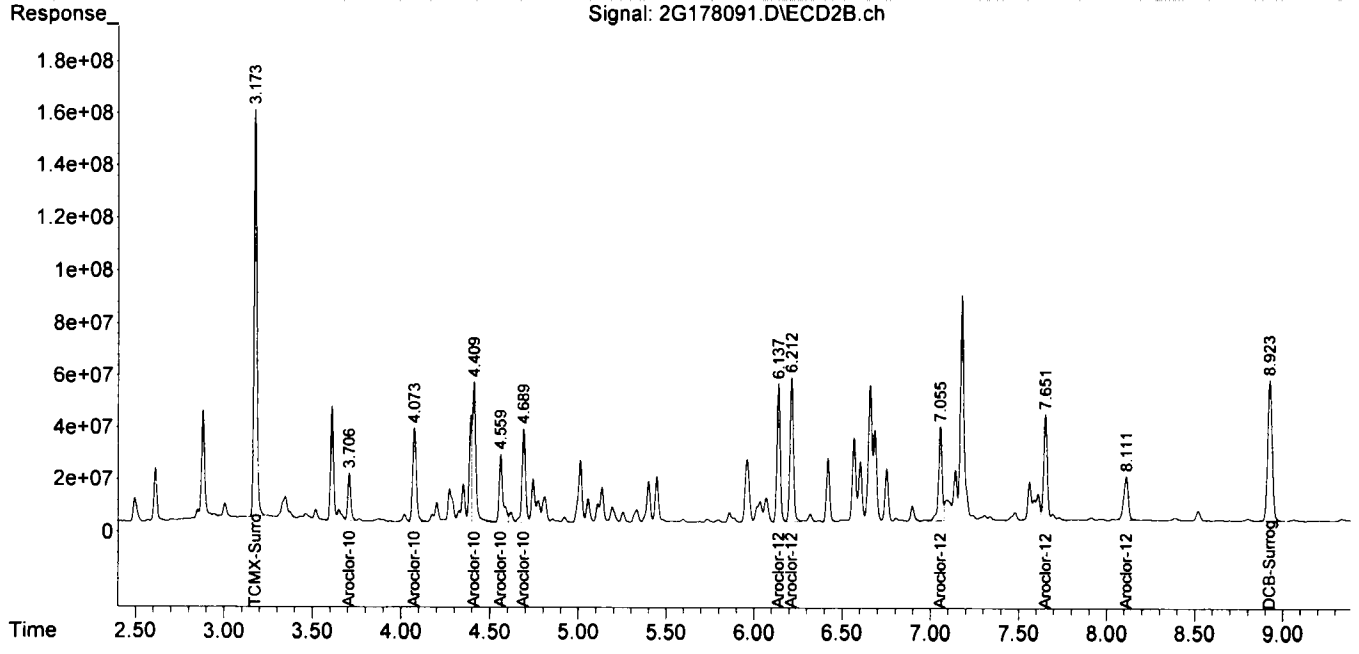
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-25-23\
Data File : 2G178091.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2023 22:46
Operator : AH/PR/KM
Sample : AD38586-007(MS:AD38586-001) (Sig #1); AD38586-007(MS) (Sig #2)
Misc : S,PCB
ALS Vial : 60 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 15:08:14 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Form1

ORGANICS PCB REPORT

Sample Number: AD38586-008(MSD:AD
Client Id: HB-1 +QA\QC MSD
Data File: 2G178090.D
Analysis Date: 06/25/23 22:34
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	**Aroclor-1016**	**0.030**	**0.65**	11097-69-1	Aroclor-1254	0.030	U
11104-28-2	Aroclor-1221	0.030	U	**11096-82-5**	**Aroclor-1260**	**0.030**	**0.63**
11141-16-5	Aroclor-1232	0.030	U	37324-23-5	Aroclor-1262	0.030	U
53469-21-9	Aroclor-1242	0.030	U	11100-14-4	Aroclor-1268	0.030	U
12672-29-6	Aroclor-1248	0.030	U	**1336-36-3**	**Aroclor (Total)**	**0.030**	**1.3**

Worksheet #: 696318

Total Target Concentration 1.3

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-25-23\
Data File : 2G178090.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2023 22:34
Operator : AH/PR/KM
Sample : AD38586-008(MSD:AD38586-001) (Sig #1); AD38586-008(MSD) (Sig #2)
Misc : S,PCB
ALS Vial : 59 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 11:07:23 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.210	3.173	1123.0E6	1649.8E6	132.716	128.648m
2)Aroclor-1016 {1}	3.666	3.707	138.9E6	191.4E6	1079.476	1032.736
3)Aroclor-1016 {2}	3.990	4.073	326.9E6	476.0E6	1044.950m	1010.002
4)Aroclor-1016 {3}	4.405	4.409	712.5E6	669.7E6	1148.953	1051.280
5)Aroclor-1016 {4}	4.615	4.560	214.6E6	337.5E6	1073.707	1011.164
6)Aroclor-1016 {5}	4.690	4.689	146.2E6	457.6E6	1048.464	1057.256
7)Aroclor-1260 {1}	6.036	6.139	392.9E6	638.0E6	1021.902	993.170
8)Aroclor-1260 {2}	6.256	6.212	472.1E6	697.9E6	1052.816	1037.928
9)Aroclor-1260 {3}	6.675	7.055	182.3E6	440.1E6	946.413	955.370m
10)Aroclor-1260 {4}	6.932	7.651	359.5E6	570.3E6	1121.271	1048.340
11)Aroclor-1260 {5}	7.553	8.111	540.5E6	383.1E6	1054.325	1186.950
45)DCB-Surrogate	8.587	8.925	668.4E6	1034.8E6	93.545	97.231

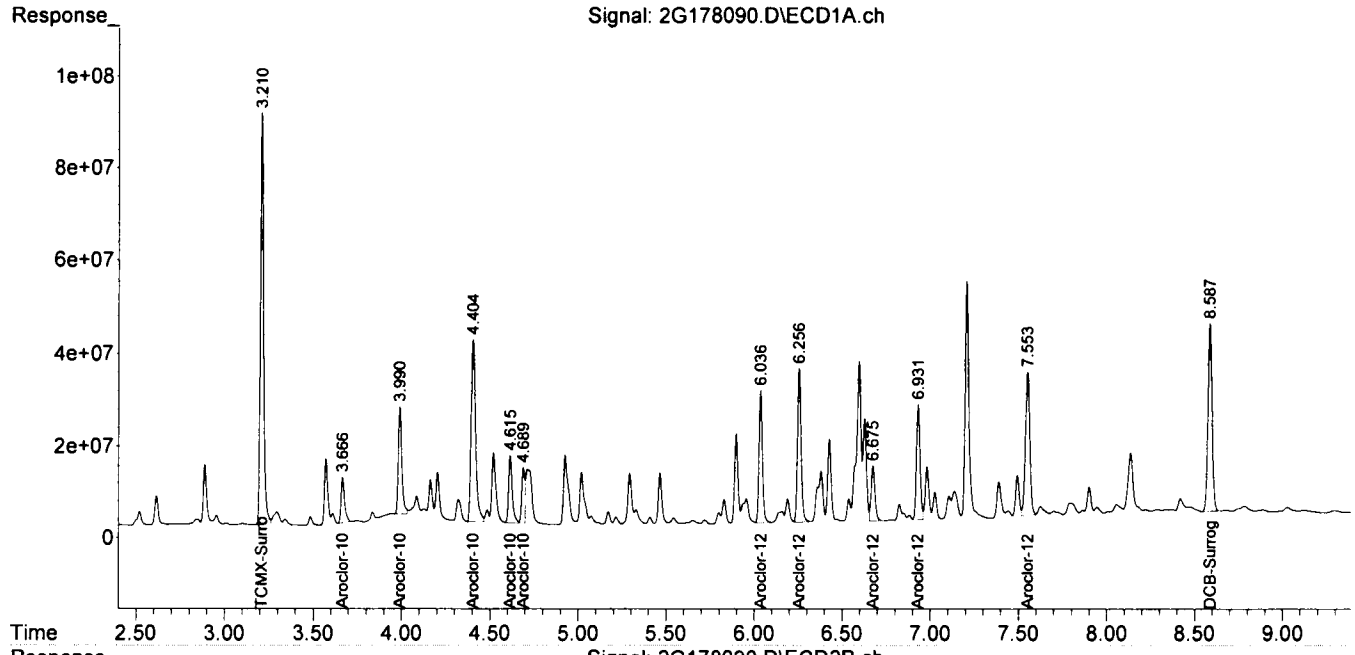
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

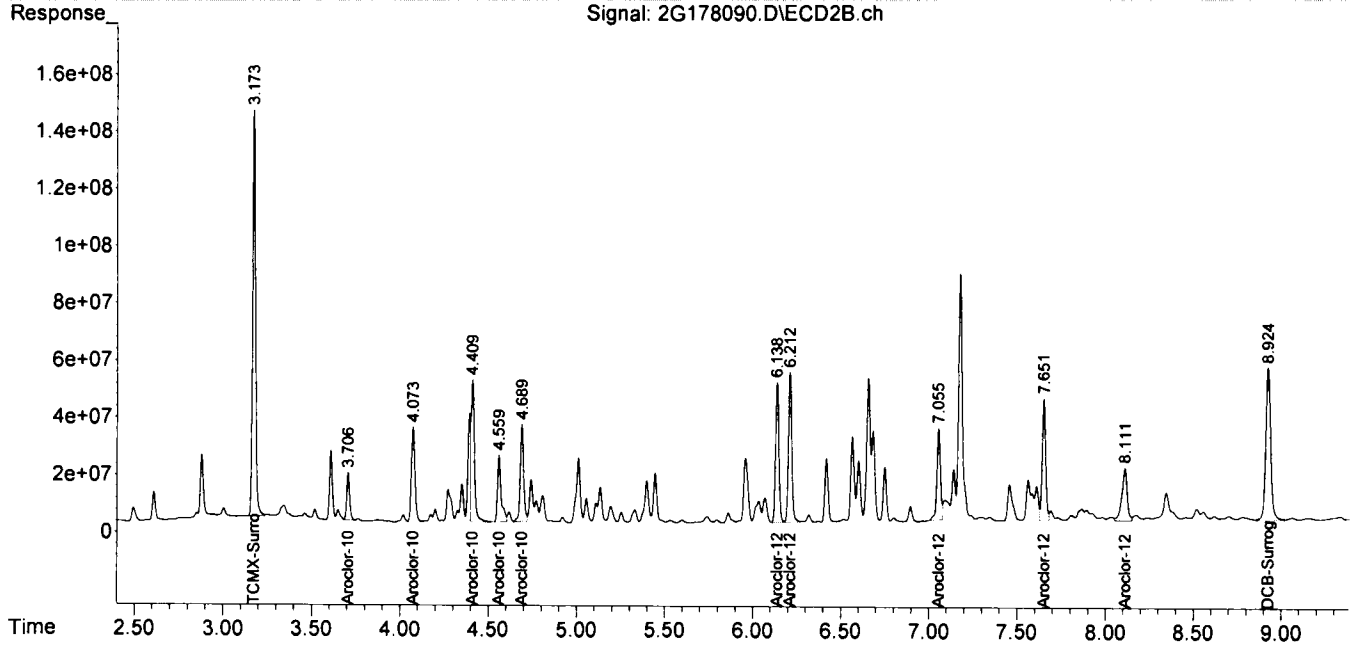
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-25-23\
Data File : 2G178090.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2023 22:34
Operator : AH/PR/KM
Sample : AD38586-008(MSD:AD38586-001) (Sig #1); AD38586-008(MSD) (Sig #2)
Misc : S,PCB
ALS Vial : 59 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 11:07:23 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





GC PCB Data
Standards Data

3061429 0659

Form 6

Initial Calibration

Method: EPA 8082A

Instrument: GC_2

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	2G176271.D	CAL 1660@50PPB	05/17/23 12:41	2	2G176273.D	CAL 1660@200PPB	05/17/23 13:04
3	2G176274.D	CAL 1660@500PPB	05/17/23 13:16	4	2G176275.D	CAL 1660@1000PPB	05/17/23 13:28
5	2G176276.D	CAL 1660@2000PPB	05/17/23 13:39	6	2G176277.D	CAL 1660@4000PPB	05/17/23 13:51
7	2G176266.D	CAL 3268@500PPB	05/17/23 11:42	8	2G176267.D	CAL 1242@500PPB	05/17/23 11:54
9	2G176268.D	CAL 1248@500PPB	05/17/23 12:05	10	2G176269.D	CAL 2154@500PPB	05/17/23 12:17
11	2G176270.D	CAL 1262@500PPB	05/17/23 12:29				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
TCMX-Surrogate	1	0	Avg	812.21	838.88	850.02	870.49	859.12	846.46	----	----	846	3.21	1.00	1.00	2.4	5.00	20.00	50.00	100.0	200.0	400.0		
Aroclor-1016	1	1	Avg	10.655	12.923	12.685	14.902	12.394	13.653	----	----	12.9	3.67	0.996	0.997	11	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	2	Avg	34.679	32.233	29.866	30.132	31.483	29.332	----	----	31.3	3.99	0.999	1.00	6.3	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	3	Avg	58.631	59.817	63.096	64.915	63.413	62.210	----	----	62.0	4.41	1.00	1.00	3.8	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	4	Avg	15.691	22.082	20.503	21.384	20.452	19.834	----	----	20.0	4.62	0.999	1.00	11	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	5	Avg	13.377	15.341	14.007	14.234	13.593	13.083	----	----	13.9	4.69	0.999	1.00	5.8	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	1	Avg	43.344	40.804	38.089	37.336	36.128	34.963	----	----	38.4	6.04	1.00	1.00	8.1	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	2	Avg	47.469	47.709	44.515	44.172	43.132	42.033	----	----	44.8	6.26	1.00	1.00	5.1	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	3	Avg	19.305	21.178	19.942	18.978	18.485	17.701	----	----	19.3	6.68	0.999	1.00	6.3	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	4	Avg	32.764	32.772	31.529	31.906	31.764	31.636	----	----	32.1	6.94	1.00	1.00	1.8	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	5	Avg	47.052	52.448	51.687	52.317	52.078	52.002	----	----	51.3	7.56	1.00	1.00	4.1	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1221	1	1	Avg	----	----	----	----	----	----	----	----	7.47	3.48	-1	-1	Lvl=10	500.0							
Aroclor-1221	1	2	Avg	----	----	----	----	----	----	----	----	4.46	3.61	-1	-1	Lvl=10	500.0							
Aroclor-1221	1	3	Avg	----	----	----	----	----	----	----	----	18.3	3.67	-1	-1	Lvl=10	500.0							
Aroclor-1232	1	1	Avg	----	----	----	----	----	----	----	----	11.4	3.67	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	2	Avg	----	----	----	----	----	----	----	----	12.2	3.99	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	3	Avg	----	----	----	----	----	----	----	----	20.5	4.41	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	4	Avg	----	----	----	----	----	----	----	----	6.35	4.62	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	5	Avg	----	----	----	----	----	----	----	----	5.36	4.69	-1	-1	Lvl=7	500.0							
Aroclor-1242	1	1	Avg	----	----	----	----	----	----	----	----	11.1	3.67	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	2	Avg	----	----	----	----	----	----	----	----	22.2	3.99	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	3	Avg	----	----	----	----	----	----	----	----	41.9	4.41	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	4	Avg	----	----	----	----	----	----	----	----	15.3	4.62	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	5	Avg	----	----	----	----	----	----	----	----	19.8	4.93	-1	-1	Lvl=8	500.0							
Aroclor-1248	1	1	Avg	----	----	----	----	----	----	----	----	10.9	3.99	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	2	Avg	----	----	----	----	----	----	----	----	26.9	4.40	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	3	Avg	----	----	----	----	----	----	----	----	16.0	4.69	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	4	Avg	----	----	----	----	----	----	----	----	32.9	4.93	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	5	Avg	----	----	----	----	----	----	----	----	29.1	5.02	-1	-1	Lvl=9	500.0							
Aroclor-1254	1	1	Avg	----	----	----	----	----	----	----	----	48.6	5.90	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	2	Avg	----	----	----	----	----	----	----	----	25.4	6.04	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	3	Avg	----	----	----	----	----	----	----	----	30.6	6.14	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	4	Avg	----	----	----	----	----	----	----	----	22.1	6.26	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	5	Avg	----	----	----	----	----	----	----	----	20.9	6.48	-1	-1	Lvl=10	500.0							
Aroclor-1262	1	1	Avg	----	----	----	----	----	----	----	----	31.9	6.26	-1	-1	Lvl=11	500.0							
Aroclor-1262	1	2	Avg	----	----	----	----	----	----	----	----	29.8	7.50	-1	-1	Lvl=11	500.0							

Avg Rsd Col 1: 5.68 Avg Rsd Col 2: 4.24

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 , Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

3061429 0660

Form 6

Initial Calibration

Method: EPA 8082A

Instrument: GC_2

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	2G176271.D	CAL 1660@50PPB	05/17/23 12:41	2	2G176273.D	CAL 1660@200PPB	05/17/23 13:04
3	2G176274.D	CAL 1660@500PPB	05/17/23 13:16	4	2G176275.D	CAL 1660@1000PPB	05/17/23 13:28
5	2G176276.D	CAL 1660@2000PPB	05/17/23 13:39	6	2G176277.D	CAL 1660@4000PPB	05/17/23 13:51
7	2G176266.D	CAL 3268@500PPB	05/17/23 11:42	8	2G176267.D	CAL 1242@500PPB	05/17/23 11:54
9	2G176268.D	CAL 1248@500PPB	05/17/23 12:05	10	2G176269.D	CAL 2154@500PPB	05/17/23 12:17
11	2G176270.D	CAL 1262@500PPB	05/17/23 12:29				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Aroclor-1262	1	3	Avg	----	----	----	----	----	----	----	----	61.3	7.55	-1	-1	Lvl=11	500.0							
Aroclor-1262	1	4	Avg	----	----	----	----	----	----	----	----	28.8	8.14	-1	-1	Lvl=11	500.0							
Aroclor-1262	1	5	Avg	----	----	----	----	----	----	----	----	9.34	8.42	-1	-1	Lvl=11	500.0							
Aroclor-1268	1	1	Avg	----	----	----	----	----	----	----	----	7.19	6.93	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	2	Avg	----	----	----	----	----	----	----	----	8.30	7.21	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	3	Avg	----	----	----	----	----	----	----	----	72.2	7.70	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	4	Avg	----	----	----	----	----	----	----	----	18.3	7.79	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	5	Avg	----	----	----	----	----	----	----	----	224	8.42	-1	-1	Lvl=7	500.0							
DCB-Surrogate	1	0	Avg	729.80	740.35	710.16	710.85	700.27	695.43	----	----	714	8.59	1.00	1.00	2.4	5.00	20.00	50.00	100.0	200.0	400.0		
TCMX-Surrogate	2	0	Avg	1264.6	1274.0	1282.0	1322.5	1280.2	1270.7	----	----	1280	3.17	1.00	1.00	1.6	5.00	20.00	50.00	100.0	200.0	400.0		
Aroclor-1016	2	1	Avg	19.232	19.761	18.150	18.648	17.934	17.469	----	----	18.5	3.71	1.00	1.00	4.6	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	2	Avg	52.068	49.658	46.656	46.472	44.684	43.219	----	----	47.1	4.07	1.00	1.00	6.9	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	3	Avg	67.178	64.758	62.352	64.664	62.077	61.175	----	----	63.7	4.41	1.00	1.00	3.5	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	4	Avg	36.371	35.202	32.074	33.102	32.014	31.475	----	----	33.4	4.56	1.00	1.00	5.9	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	5	Avg	41.239	46.301	43.298	44.079	42.787	42.003	----	----	43.3	4.69	1.00	1.00	4.1	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	1	Avg	72.565	67.887	63.105	62.284	60.521	59.080	----	----	64.2	6.14	1.00	1.00	7.9	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	2	Avg	72.958	70.223	66.548	66.267	64.406	63.049	----	----	67.2	6.21	1.00	1.00	5.5	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	3	Avg	49.596	47.575	44.686	45.795	44.612	44.100	----	----	46.1	7.05	1.00	1.00	4.6	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	4	Avg	52.459	53.713	52.629	56.120	55.064	56.426	----	----	54.4	7.65	1.00	1.00	3.2	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	5	Avg	31.571	32.239	31.538	32.857	32.404	33.027	----	----	32.3	8.11	1.00	1.00	1.9	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1221	2	1	Avg	----	----	----	----	----	----	----	----	12.0	3.52	-1	-1	Lvl=10	500.0							
Aroclor-1221	2	2	Avg	----	----	----	----	----	----	----	----	7.23	3.65	-1	-1	Lvl=10	500.0							
Aroclor-1221	2	3	Avg	----	----	----	----	----	----	----	----	25.3	3.71	-1	-1	Lvl=10	500.0							
Aroclor-1232	2	1	Avg	----	----	----	----	----	----	----	----	16.0	3.71	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	2	Avg	----	----	----	----	----	----	----	----	19.2	4.07	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	3	Avg	----	----	----	----	----	----	----	----	22.8	4.41	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	4	Avg	----	----	----	----	----	----	----	----	17.7	4.69	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	5	Avg	----	----	----	----	----	----	----	----	7.97	4.74	-1	-1	Lvl=7	500.0							
Aroclor-1242	2	1	Avg	----	----	----	----	----	----	----	----	16.2	3.71	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	2	Avg	----	----	----	----	----	----	----	----	35.5	4.07	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	3	Avg	----	----	----	----	----	----	----	----	47.5	4.41	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	4	Avg	----	----	----	----	----	----	----	----	24.9	4.56	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	5	Avg	----	----	----	----	----	----	----	----	26.4	5.01	-1	-1	Lvl=8	500.0							
Aroclor-1248	2	1	Avg	----	----	----	----	----	----	----	----	16.7	4.07	-1	-1	Lvl=9	500.0							
Aroclor-1248	2	2	Avg	----	----	----	----	----	----	----	----	25.8	4.41	-1	-1	Lvl=9	500.0							
Aroclor-1248	2	3	Avg	----	----	----	----	----	----	----	----	38.0	4.69	-1	-1	Lvl=9	500.0							

Avg Rsd Col 1: 5.68 Avg Rsd Col 2: 4.24

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

3061429 0661

Form 6

Initial Calibration

Method: EPA 8082A

Instrument: GC_2

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	2G176271.D	CAL 1660@50PPB	05/17/23 12:41	2	2G176273.D	CAL 1660@200PPB	05/17/23 13:04
3	2G176274.D	CAL 1660@500PPB	05/17/23 13:16	4	2G176275.D	CAL 1660@1000PPB	05/17/23 13:28
5	2G176276.D	CAL 1660@2000PPB	05/17/23 13:39	6	2G176277.D	CAL 1660@4000PPB	05/17/23 13:51
7	2G176266.D	CAL 3268@500PPB	05/17/23 11:42	8	2G176267.D	CAL 1242@500PPB	05/17/23 11:54
9	2G176268.D	CAL 1248@500PPB	05/17/23 12:05	10	2G176269.D	CAL 2154@500PPB	05/17/23 12:17
11	2G176270.D	CAL 1262@500PPB	05/17/23 12:29				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Aroclor-1248	2	4	Avg	----	----	----	----	----	----	----	----	38.8	5.01	-1	-1	Lvl=9	500.0							
Aroclor-1248	2	5	Avg	----	----	----	----	----	----	----	----	43.0	5.25	-1	-1	Lvl=9	500.0							
Aroclor-1254	2	1	Avg	----	----	----	----	----	----	----	----	46.7	5.44	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	2	Avg	----	----	----	----	----	----	----	----	18.7	5.73	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	3	Avg	----	----	----	----	----	----	----	----	54.2	6.08	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	4	Avg	----	----	----	----	----	----	----	----	29.9	6.51	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	5	Avg	----	----	----	----	----	----	----	----	27.2	7.10	-1	-1	Lvl=10	500.0							
Aroclor-1262	2	1	Avg	----	----	----	----	----	----	----	----	39.4	6.57	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	2	Avg	----	----	----	----	----	----	----	----	50.6	7.56	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	3	Avg	----	----	----	----	----	----	----	----	50.6	7.65	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	4	Avg	----	----	----	----	----	----	----	----	55.9	8.11	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	5	Avg	----	----	----	----	----	----	----	----	13.0	8.52	-1	-1	Lvl=11	500.0							
Aroclor-1268	2	1	Avg	----	----	----	----	----	----	----	----	8.23	7.14	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	2	Avg	----	----	----	----	----	----	----	----	13.7	7.18	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	3	Avg	----	----	----	----	----	----	----	----	105	7.91	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	4	Avg	----	----	----	----	----	----	----	----	24.7	8.03	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	5	Avg	----	----	----	----	----	----	----	----	343	8.52	-1	-1	Lvl=7	500.0							
DCB-Surrogate	2	0	Avg	1073.8	1072.9	1042.1	1065.5	1061.0	1070.1	----	----	1060	8.93	1.00	1.00	1.1	5.00	20.00	50.00	100.0	200.0	400.0		

Avg Rsd Col 1: 5.68 Avg Rsd Col 2: 4.24

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte >0=multi peak analyte (i.e. pch/chlordane etc..)
Fit = Indicates whether Avg RF, Linear or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176271.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 12:41
Operator : AH/PR/KM
Sample : CAL 1660@50PPB
Misc : S,PCB
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:06:08 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.208	3.171	40610822	63231849	4.959	5.011
2)Aroclor-1016 {1}	3.668	3.706	5327804	9616252	40.980	52.992 #
3)Aroclor-1016 {2}	3.990	4.072	17339629	26034019	56.524m	56.669
4)Aroclor-1016 {3}	4.407	4.407	29315919	33589119	49.418m	54.980m
5)Aroclor-1016 {4}	4.618	4.559	7845806	18185956	43.846	57.969m#
6)Aroclor-1016 {5}	4.693	4.688	6688657	20619729	52.058	48.660
7)Aroclor-1260 {1}	6.040	6.138	21672065	36282679	56.166	58.194
8)Aroclor-1260 {2}	6.260	6.212	23734534	36479011	52.789	55.857
9)Aroclor-1260 {3}	6.678	7.055	9652610	24798467	49.697	55.913m
10)Aroclor-1260 {4}	6.936	7.651	16382278	26229840	50.246m	48.546
11)Aroclor-1260 {5}	7.558	8.109	23526039	15785505	43.747	49.228
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176271.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 12:41
Operator : AH/PR/KM
Sample : CAL 1660@50PPB
Misc : S,PCB
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:06:08 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	8.591	8.926	36490329	53690431	5.113	5.161

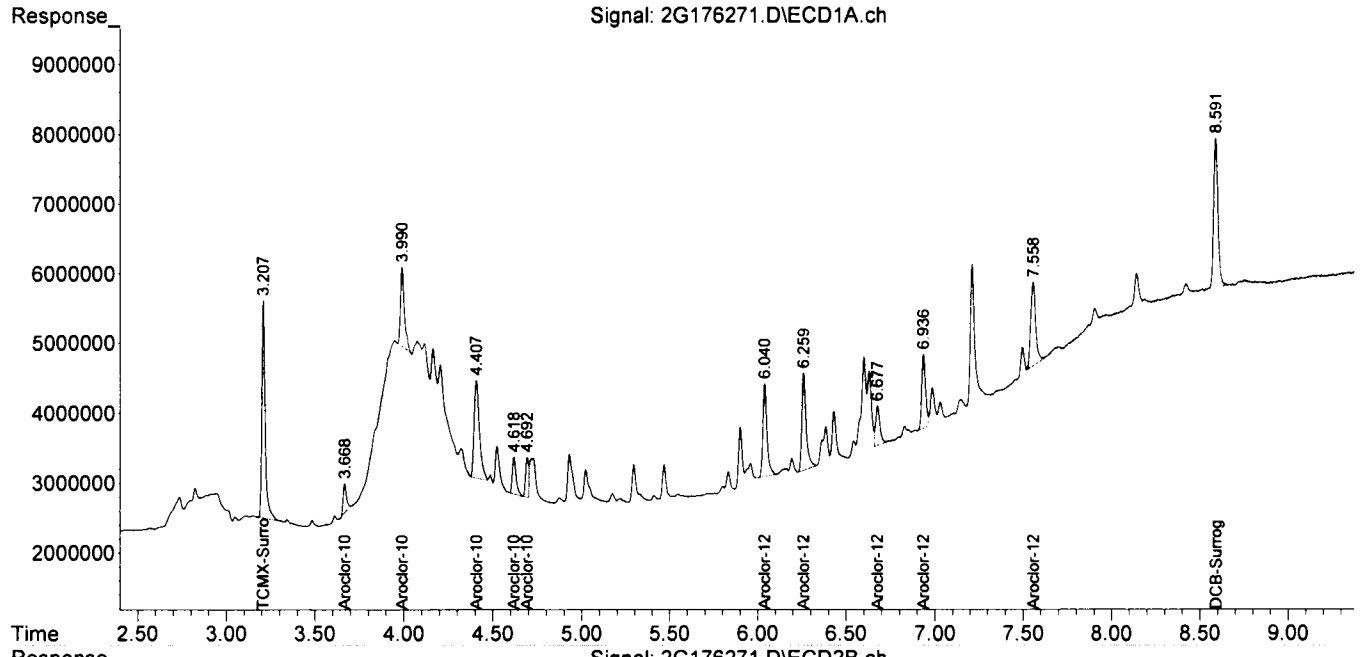
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

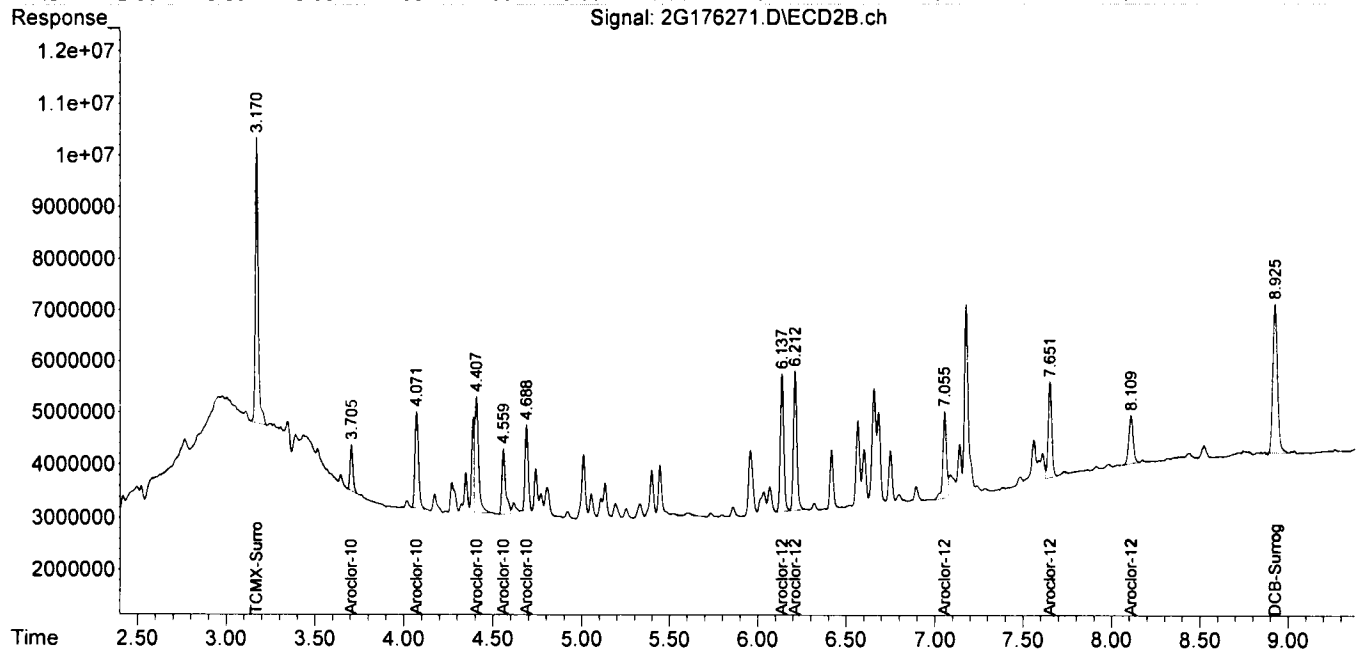
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176271.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 12:41
Operator : AH/PR/KM
Sample : CAL 1660@50PPB
Misc : S,PCB
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:06:08 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176273.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 13:04
Operator : AH/PR/KM
Sample : CAL 1660@200PPB
Misc : S,PCB
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:06:56 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.208	3.171	167.8E6	254.8E6	20.487	20.194
2)Aroclor-1016 {1}	3.667	3.706	25846787	39522113	198.805	217.794
3)Aroclor-1016 {2}	3.991	4.072	64467483	99316269	210.153m	216.185
4)Aroclor-1016 {3}	4.406	4.408	119.6E6	129.5E6	201.669m	211.999m
5)Aroclor-1016 {4}	4.617	4.559	44164256	70404248	246.809	224.419
6)Aroclor-1016 {5}	4.692	4.688	30683498	92603325	238.811	218.533
7)Aroclor-1260 {1}	6.039	6.137	81609304	135.8E6	211.503	217.769
8)Aroclor-1260 {2}	6.259	6.211	95419066	140.4E6	212.226	215.053
9)Aroclor-1260 {3}	6.678	7.054	42356070	95150348	218.072	214.534m
10)Aroclor-1260 {4}	6.935	7.651	65545452	107.4E6	201.035	198.823
11)Aroclor-1260 {5}	7.556	8.111	104.9E6	64479933	195.059	201.085
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176273.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 13:04
Operator : AH/PR/KM
Sample : CAL 1660@200PPB
Misc : S,PCB
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:06:56 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	8.590	8.925	148.1E6	214.6E6	20.748	20.628

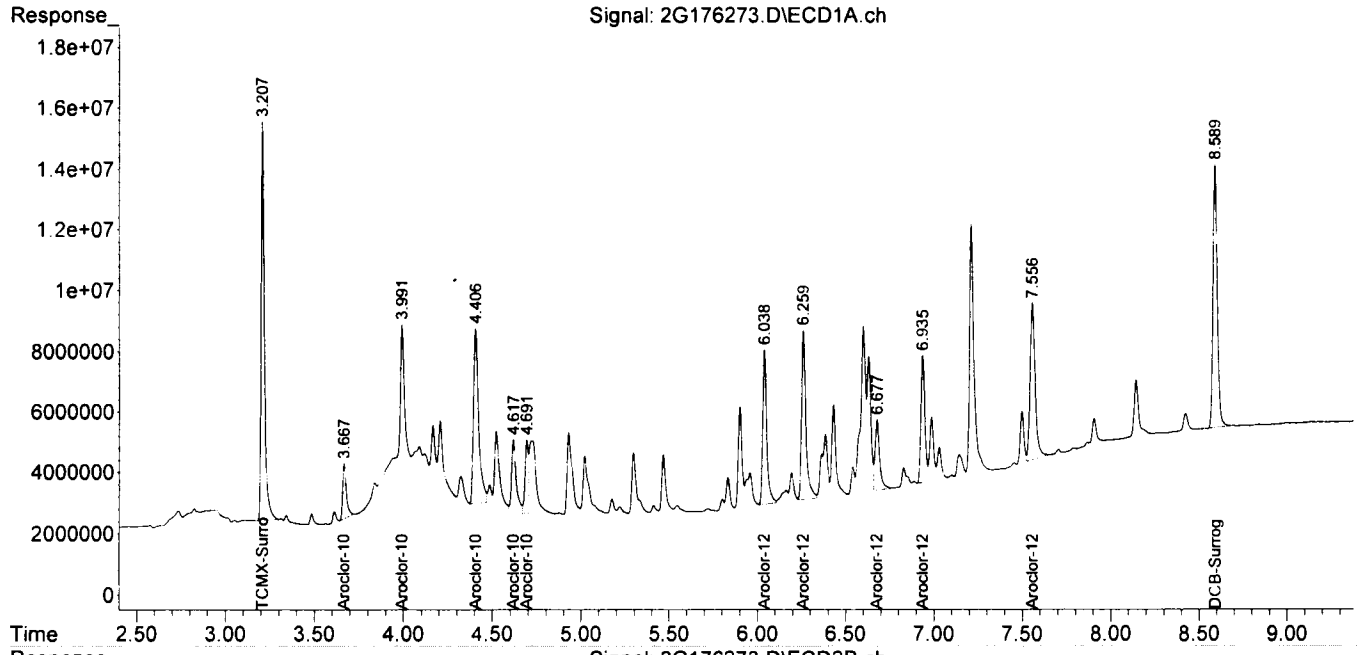
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

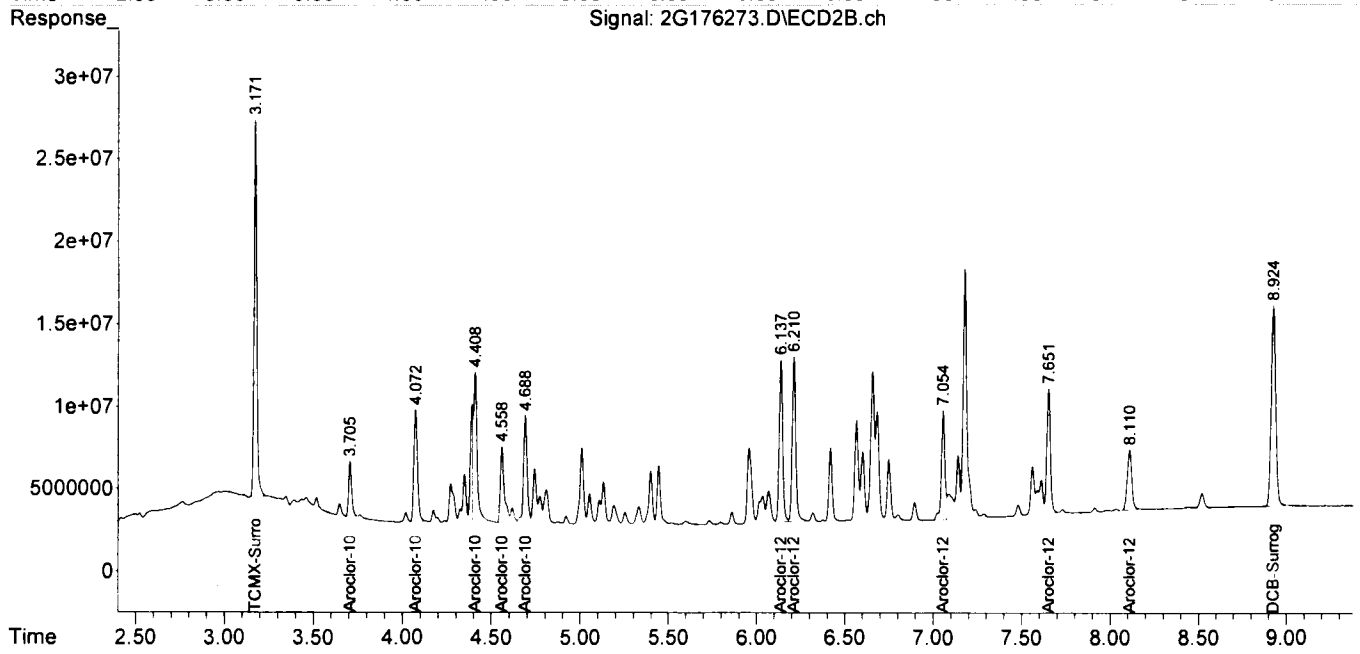
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176273.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 13:04
Operator : AH/PR/KM
Sample : CAL 1660@200PPB
Misc : S,PCB
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:06:56 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176274.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 13:16
Operator : AH/PR/KM
Sample : CAL 1660@500PPB
Misc : S,PCB
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:07:28 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.208	3.171	425.0E6	641.0E6	51.897	50.804
2)Aroclor-1016 {1}	3.667	3.706	63425130	90750572	487.846	500.098
3)Aroclor-1016 {2}	3.991	4.072	149.3E6	233.3E6	486.806m	507.791
4)Aroclor-1016 {3}	4.407	4.408	315.5E6	311.8E6	531.813	510.306
5)Aroclor-1016 {4}	4.618	4.559	102.5E6	160.4E6	572.903	511.205
6)Aroclor-1016 {5}	4.692	4.688	70036365	216.5E6	545.097	510.892
7)Aroclor-1260 {1}	6.039	6.138	190.4E6	315.5E6	493.579	506.076
8)Aroclor-1260 {2}	6.259	6.211	222.6E6	332.7E6	495.040	509.496
9)Aroclor-1260 {3}	6.678	7.055	99712636	223.4E6	513.375	503.766m
10)Aroclor-1260 {4}	6.935	7.651	157.6E6	263.1E6	483.522	487.032
11)Aroclor-1260 {5}	7.557	8.111	258.4E6	157.7E6	480.571	491.777
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176274.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 13:16
Operator : AH/PR/KM
Sample : CAL 1660@500PPB
Misc : S,PCB
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:07:28 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	8.591	8.927	355.1E6	521.1E6	49.754	50.087

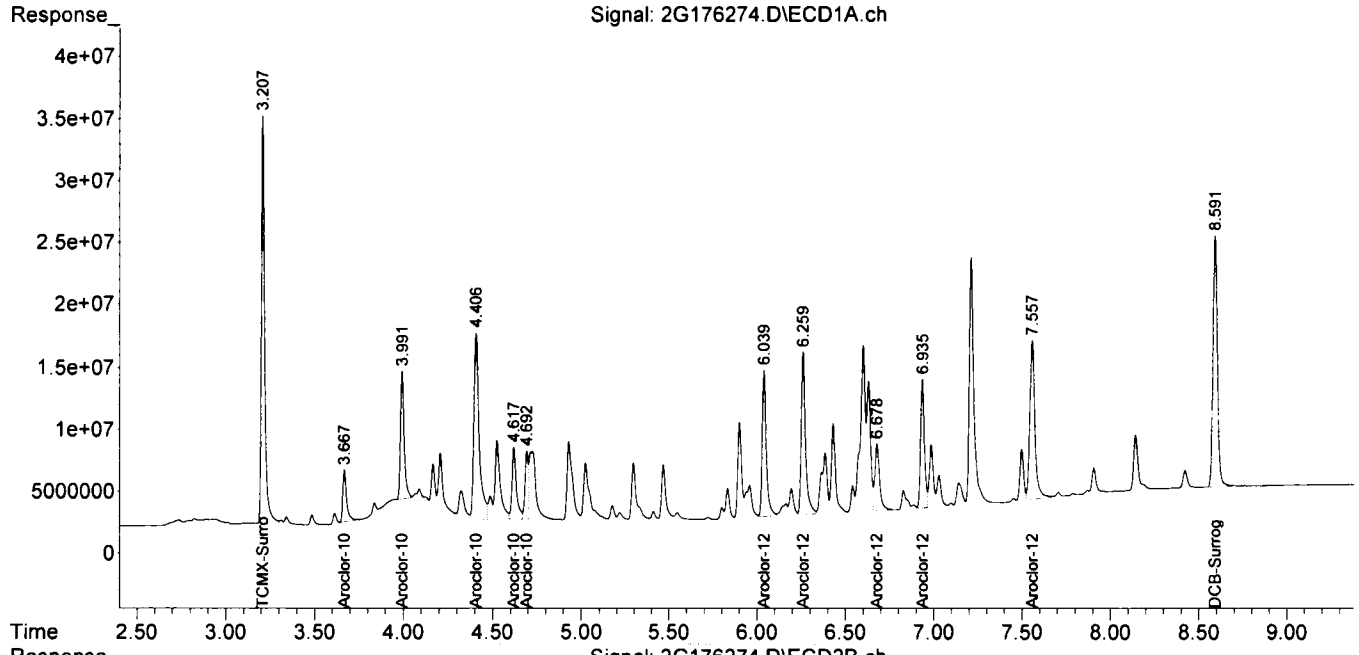
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

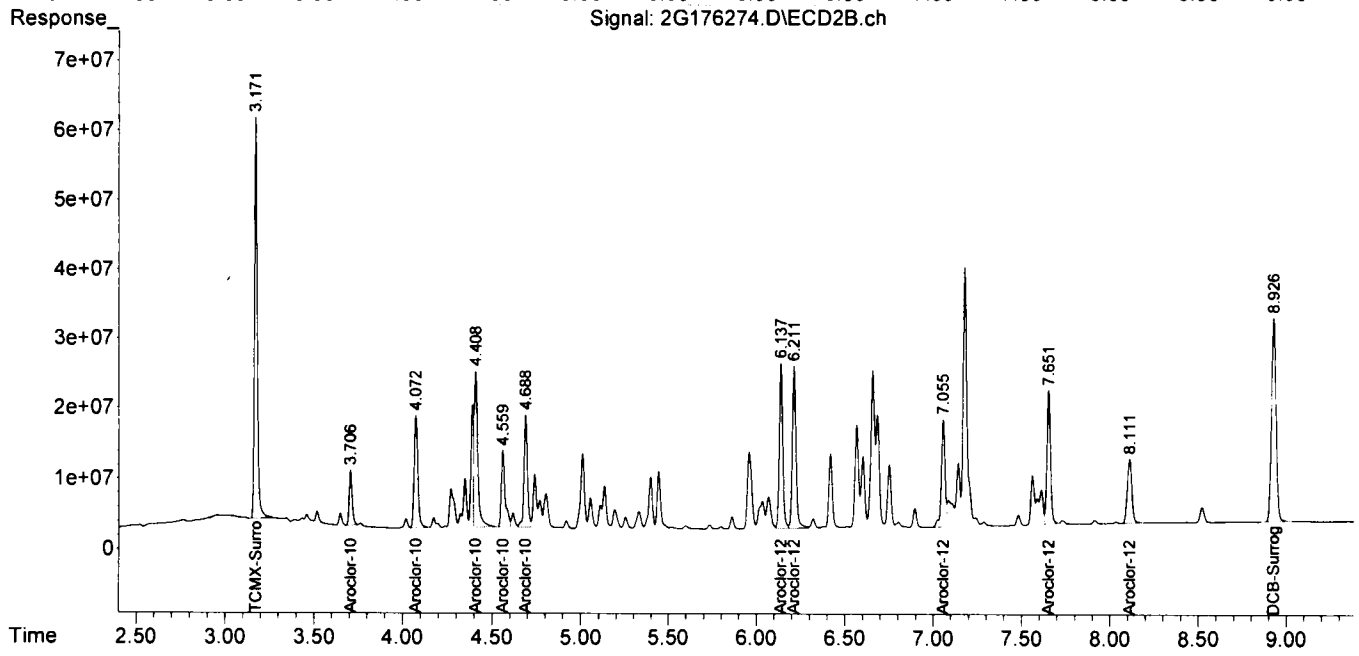
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176274.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 13:16
Operator : AH/PR/KM
Sample : CAL 1660@500PPB
Misc : S,PCB
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:07:28 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176275.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 13:28
Operator : AH/PR/KM
Sample : CAL 1660@1000PPB
Misc : S,PCB
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:08:03 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.208	3.172	870.5E6	1322.5E6	106.292	104.815
2)Aroclor-1016 {1}	3.667	3.706	149.0E6	186.5E6	1146.277	1027.668
3)Aroclor-1016 {2}	3.991	4.072	301.3E6	464.7E6	982.284m	1011.584
4)Aroclor-1016 {3}	4.406	4.408	649.2E6	646.6E6	1094.286	1058.451
5)Aroclor-1016 {4}	4.617	4.559	213.8E6	331.0E6	1195.062	1055.174
6)Aroclor-1016 {5}	4.692	4.689	142.3E6	440.8E6	1107.854	1040.217
7)Aroclor-1260 {1}	6.039	6.137	373.4E6	622.8E6	967.637	998.994
8)Aroclor-1260 {2}	6.259	6.211	441.7E6	662.7E6	982.449	1014.690
9)Aroclor-1260 {3}	6.678	7.055	189.8E6	458.0E6	977.125	1032.532m
10)Aroclor-1260 {4}	6.935	7.651	319.1E6	561.2E6	978.604	1038.670
11)Aroclor-1260 {5}	7.557	8.111	523.2E6	328.6E6	972.857	1024.691
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176275.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 13:28
Operator : AH/PR/KM
Sample : CAL 1660@1000PPB
Misc : S,PCB
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:08:03 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	8.590	8.925	710.9E6	1065.5E6	99.605	102.423

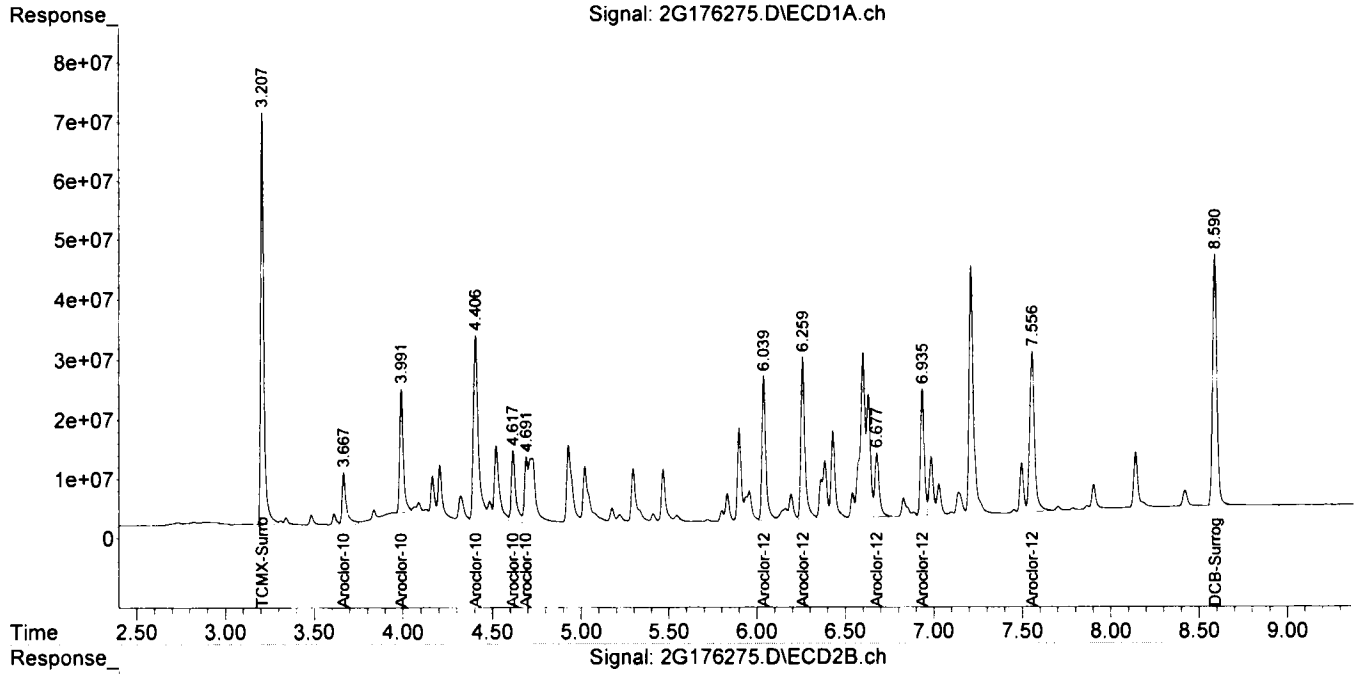
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

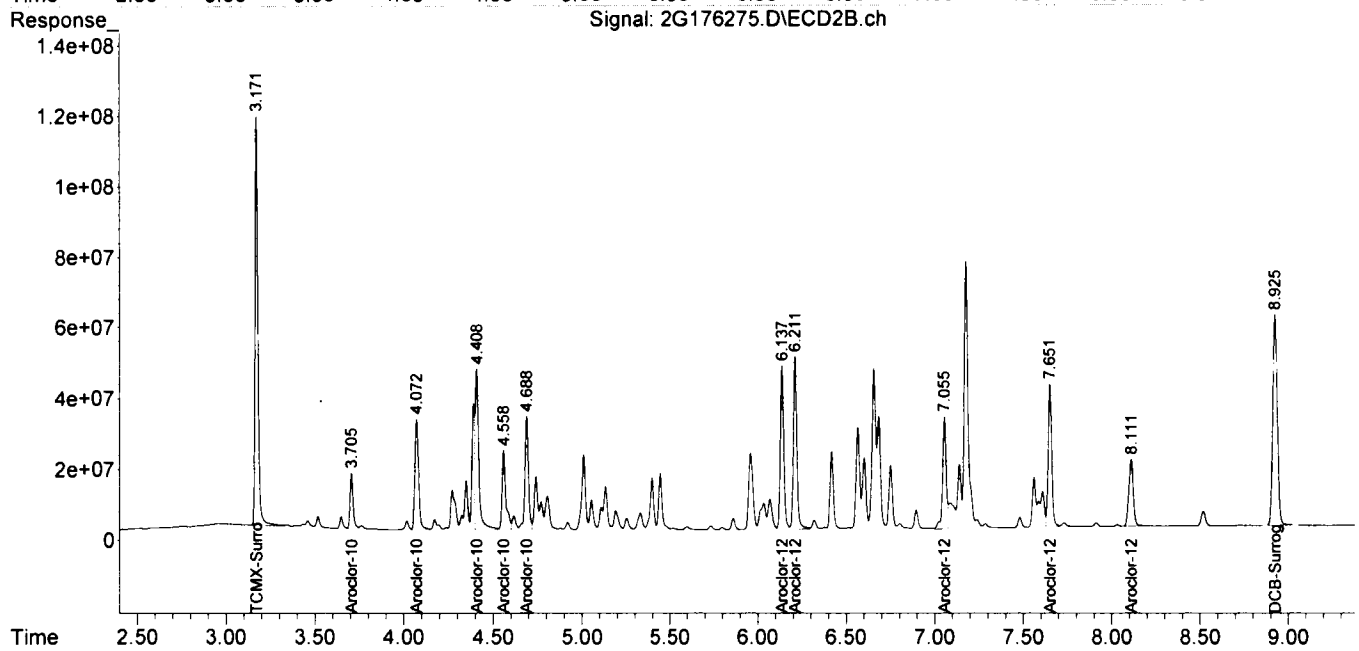
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176275.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 13:28
Operator : AH/PR/KM
Sample : CAL 1660@1000PPB
Misc : S,PCB
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:08:03 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176276.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 13:39
Operator : AH/PR/KM
Sample : CAL 1660@2000PPB
Misc : S,PCB
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:08:27 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.208	3.172	1718.3E6	2560.4E6	209.809	202.918
2)Aroclor-1016 {1}	3.666	3.706	247.9E6	358.7E6	1906.659m	1976.586
3)Aroclor-1016 {2}	3.991	4.072	629.7E6	893.7E6	2052.628m	1945.341
4)Aroclor-1016 {3}	4.406	4.408	1268.3E6	1241.6E6	2137.940	2032.218
5)Aroclor-1016 {4}	4.617	4.559	409.1E6	640.3E6	2285.977	2040.944
6)Aroclor-1016 {5}	4.691	4.688	271.9E6	855.8E6	2115.950	2019.480
7)Aroclor-1260 {1}	6.039	6.137	722.6E6	1210.4E6	1872.672	1941.429
8)Aroclor-1260 {2}	6.259	6.211	862.7E6	1288.1E6	1918.664	1972.388
9)Aroclor-1260 {3}	6.678	7.056	369.7E6	892.2E6	1903.510	2011.720
10)Aroclor-1260 {4}	6.935	7.651	635.3E6	1101.3E6	1948.536	2038.254
11)Aroclor-1260 {5}	7.557	8.111	1041.6E6	648.1E6	1936.801	2021.127
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176276.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 13:39
Operator : AH/PR/KM
Sample : CAL 1660@2000PPB
Misc : S,PCB
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:08:27 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	8.591	8.927	1400.6E6	2122.2E6	196.247	203.999

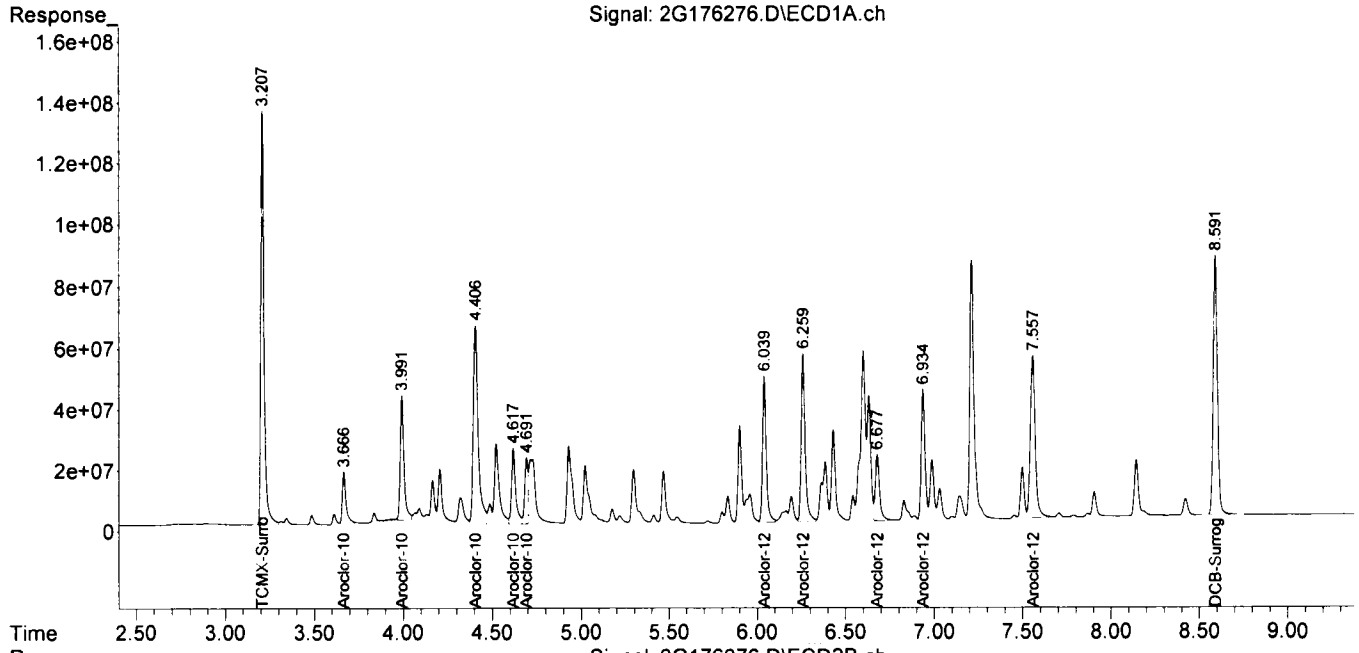
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

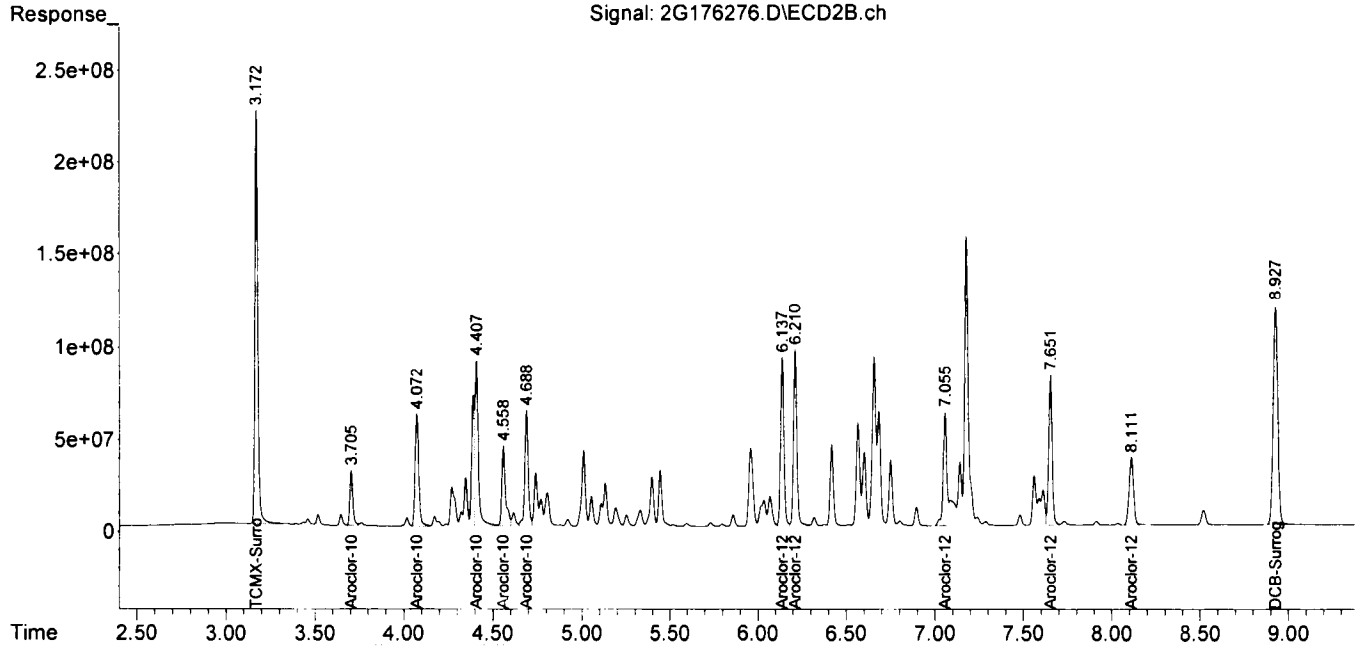
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176276.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 13:39
Operator : AH/PR/KM
Sample : CAL 1660@2000PPB
Misc : S,PCB
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:08:27 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176277.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 13:51
Operator : AH/PR/KM
Sample : CAL 1660@4000PPB
Misc : S,PCB
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:09:06 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.208	3.172	3385.8E6	5083.1E6	413.432	402.849
2)Aroclor-1016 {1}	3.666	3.705	546.1E6	698.8E6	4200.766	3850.813
3)Aroclor-1016 {2}	3.991	4.072	1173.3E6	1728.8E6	3824.800m	3763.059
4)Aroclor-1016 {3}	4.405	4.407	2488.4E6	2447.0E6	4194.776	4005.383
5)Aroclor-1016 {4}	4.617	4.558	793.4E6	1259.0E6	4433.823	4013.246
6)Aroclor-1016 {5}	4.691	4.688	523.3E6	1680.1E6	4073.157	3964.951
7)Aroclor-1260 {1}	6.038	6.137	1398.5E6	2363.2E6	3624.539	3790.409
8)Aroclor-1260 {2}	6.259	6.211	1681.3E6	2522.0E6	3739.508	3861.649
9)Aroclor-1260 {3}	6.677	7.055	708.1E6	1764.0E6	3645.495	3977.293m
10)Aroclor-1260 {4}	6.934	7.651	1265.5E6	2257.1E6	3881.280	4177.343
11)Aroclor-1260 {5}	7.556	8.110	2080.1E6	1321.1E6	3867.949	4119.920
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176277.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 13:51
Operator : AH/PR/KM
Sample : CAL 1660@4000PPB
Misc : S,PCB
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:09:06 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	8.590	8.926	2781.8E6	4280.7E6	389.781	411.491

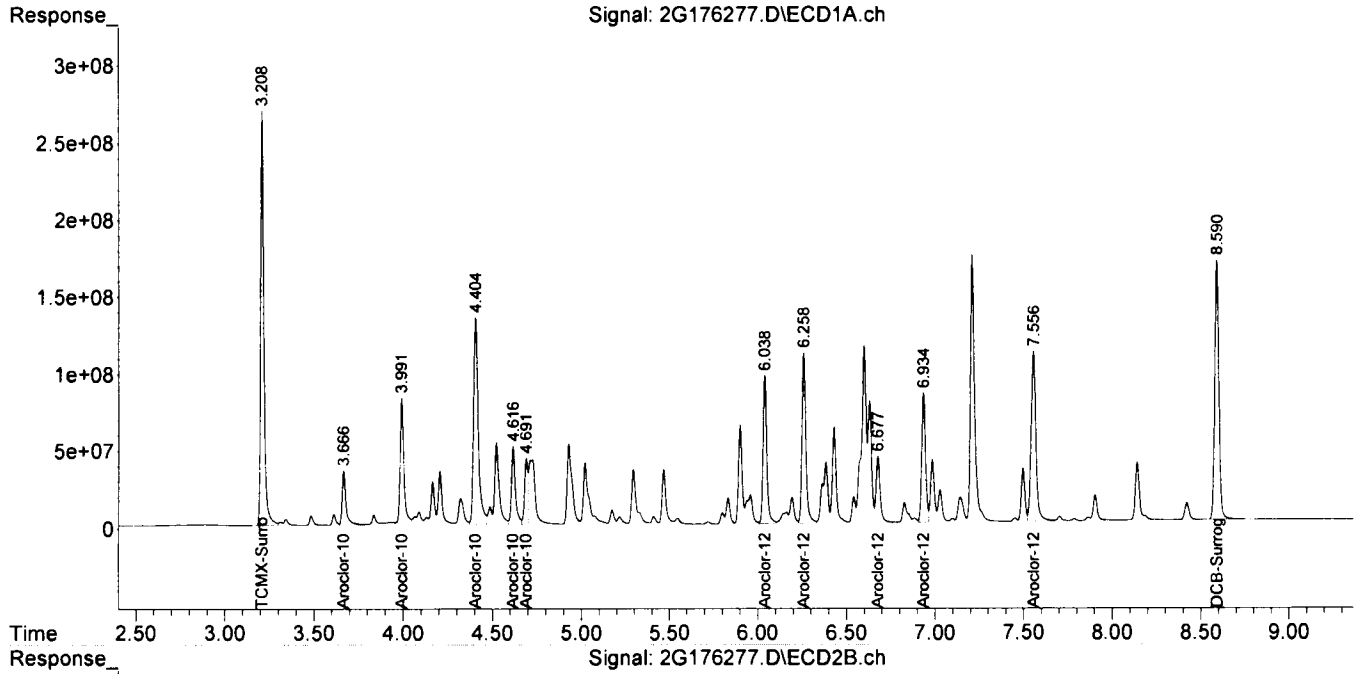
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

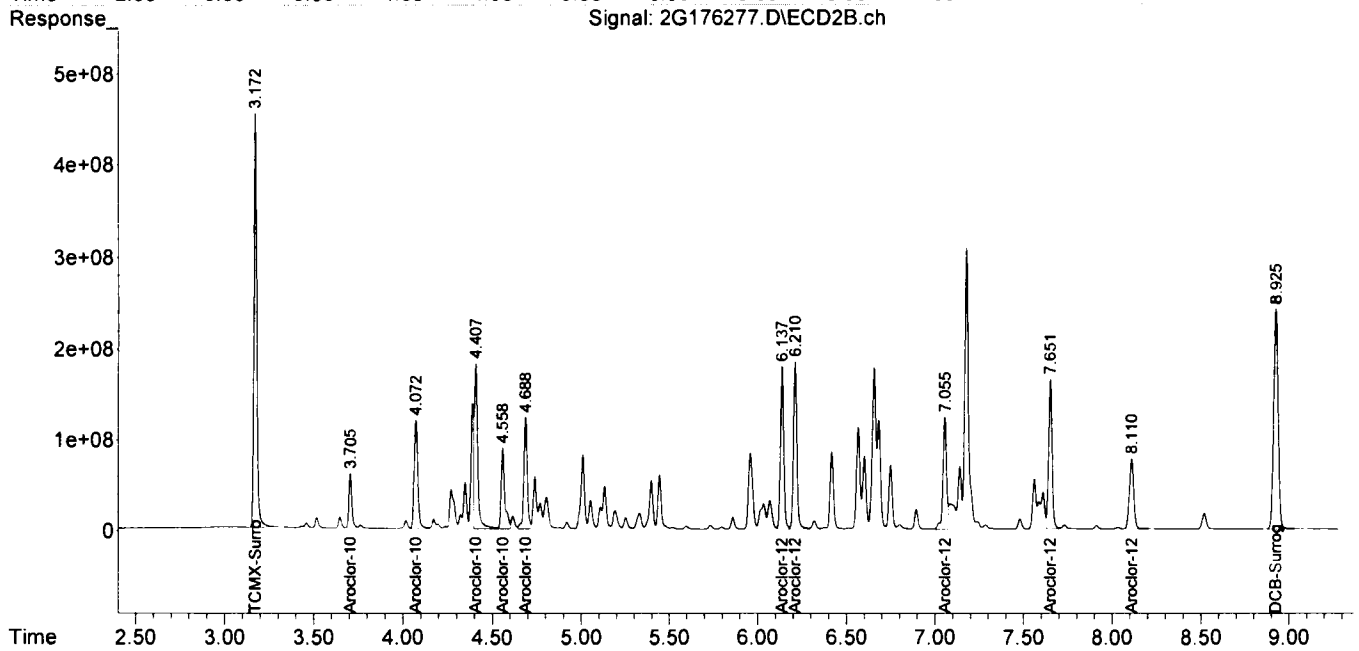
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176277.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 13:51
Operator : AH/PR/KM
Sample : CAL 1660@4000PPB
Misc : S,PCB
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:09:06 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176266.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 11:42
Operator : AH/PR/KM
Sample : CAL 3268@500PPB
Misc : S,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 15:56:45 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Fri Apr 28 16:11:06 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.208	3.171	401.8E6	625.9E6	49.058	49.601
2)Aroclor-1016 {1}	0.000	0.000	0	0	N.D. d	N.D. d
3)Aroclor-1016 {2}	0.000	0.000	0	0	N.D. d	N.D. d
4)Aroclor-1016 {3}	0.000	0.000	0	0	N.D. d	N.D. d
5)Aroclor-1016 {4}	0.000	0.000	0	0	N.D. d	N.D. d
6)Aroclor-1016 {5}	0.000	0.000	0	0	N.D. d	N.D. d
7)Aroclor-1260 {1}	0.000	0.000	0	0	N.D. d	N.D. d
8)Aroclor-1260 {2}	0.000	0.000	0	0	N.D. d	N.D. d
9)Aroclor-1260 {3}	0.000	0.000	0	0	N.D. d	N.D. d
10)Aroclor-1260 {4}	0.000	0.000	0	0	N.D. d	N.D. d
11)Aroclor-1260 {5}	0.000	0.000	0	0	N.D. d	N.D. d
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	3.667	3.705	56914349	79793714	494.864	490.874
16)Aroclor-1232 {2}	3.991	4.072	61179882	96057230	552.601m	496.436
17)Aroclor-1232 {3}	4.406	4.407	102.6E6	113.8E6	452.013m	493.904m
18)Aroclor-1232 {4}	4.618	4.688	31753068	88631685	488.460	503.646
19)Aroclor-1232 {5}	4.692	4.740	26810553	39859376	491.144m	508.834m
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	6.933	7.136	35968509	41163175	491.533m	480.211m
41)Aroclor-1268 {2}	7.212	7.177	41515475	68336066	479.990m	490.468
42)Aroclor-1268 {3}	7.703	7.912	360.8E6	525.9E6	483.964m	489.849

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176266.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 11:42
Operator : AH/PR/KM
Sample : CAL 3268@500PPB
Misc : S,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 15:56:45 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Fri Apr 28 16:11:06 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	7.787	8.032	91313332	123.3E6	484.796m	481.587
44)Aroclor-1268 {5}	8.422	8.520	1122.2E6	1714.4E6	472.310m	497.839
45)DCB-Surrogate	8.591	8.927	550.5E6	818.9E6	77.137	78.716

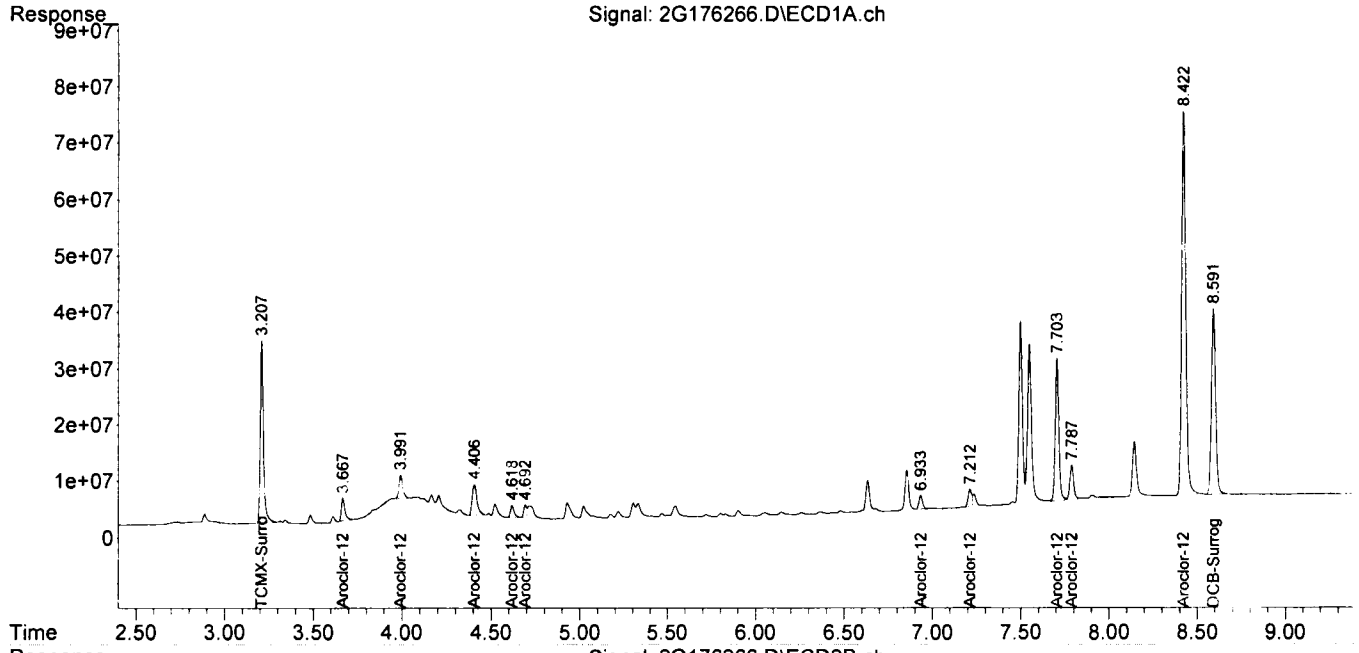
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

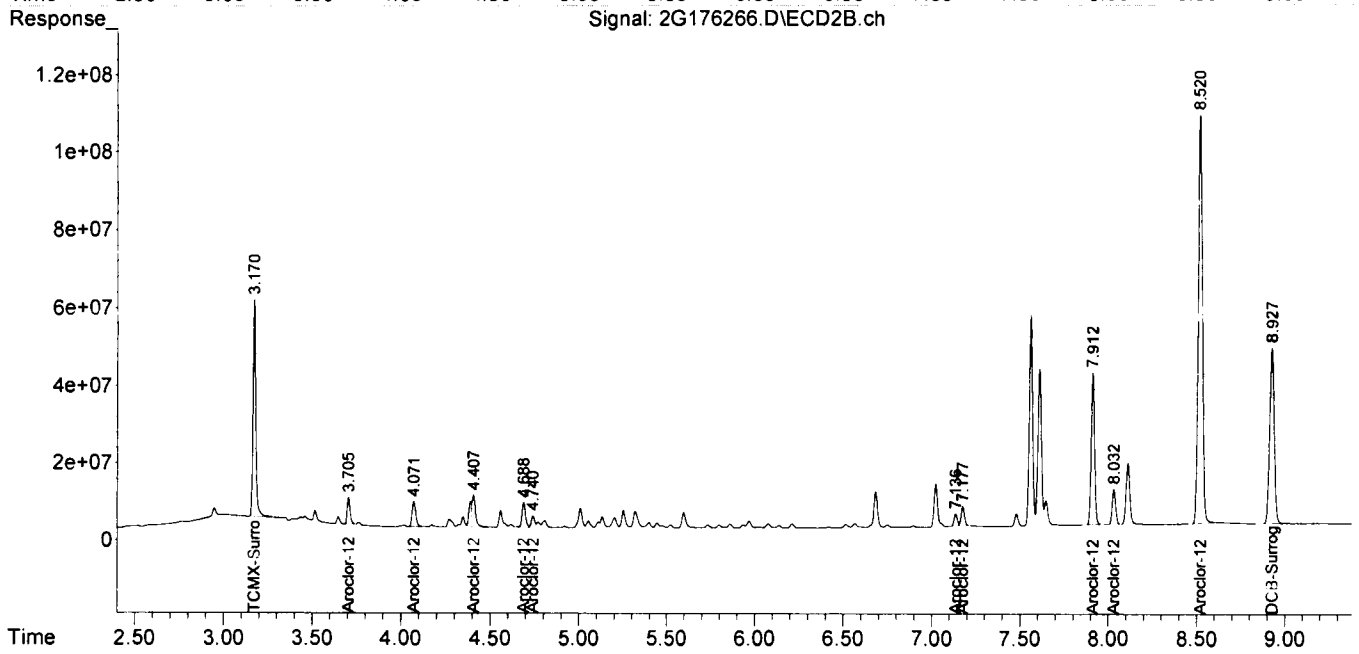
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176266.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 11:42
Operator : AH/PR/KM
Sample : CAL 3268@500PPB
Misc : S,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 15:56:45 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Fri Apr 28 16:11:06 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P
Signal #1 Info : 0.32
Signal #2 Phase: db-17
Signal #2 Info : 0.32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176267.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 11:54
Operator : AH/PR/KM
Sample : CAL 1242@500PPB
Misc : S,PCB
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:00:28 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Fri Apr 28 16:11:06 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.208	3.171	420.9E6	644.7E6	51.395	51.091
2)Aroclor-1016 {1}	0.000	0.000	0	0	N.D. d	N.D. d
3)Aroclor-1016 {2}	0.000	0.000	0	0	N.D. d	N.D. d
4)Aroclor-1016 {3}	0.000	0.000	0	0	N.D. d	N.D. d
5)Aroclor-1016 {4}	0.000	0.000	0	0	N.D. d	N.D. d
6)Aroclor-1016 {5}	0.000	0.000	0	0	N.D. d	N.D. d
7)Aroclor-1260 {1}	0.000	0.000	0	0	N.D. d	N.D. d
8)Aroclor-1260 {2}	0.000	0.000	0	0	N.D. d	N.D. d
9)Aroclor-1260 {3}	0.000	0.000	0	0	N.D. d	N.D. d
10)Aroclor-1260 {4}	0.000	0.000	0	0	N.D. d	N.D. d
11)Aroclor-1260 {5}	0.000	0.000	0	0	N.D. d	N.D. d
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	3.667	3.706	55353940	80973936	514.607	505.753
21)Aroclor-1242 {2}	3.991	4.072	110.8E6	177.4E6	517.386m	502.774
22)Aroclor-1242 {3}	4.406	4.408	209.3E6	237.5E6	473.517m	504.571
23)Aroclor-1242 {4}	4.618	4.559	76333473	124.6E6	593.473	508.936
24)Aroclor-1242 {5}	4.930	5.008	99146035	131.8E6	491.513m	500.379m
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176267.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 11:54
Operator : AH/PR/KM
Sample : CAL 1242@500PPB
Misc : S,PCB
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:00:28 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Fri Apr 28 16:11:06 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	8.591	8.925	348.1E6	516.9E6	48.771	49.692

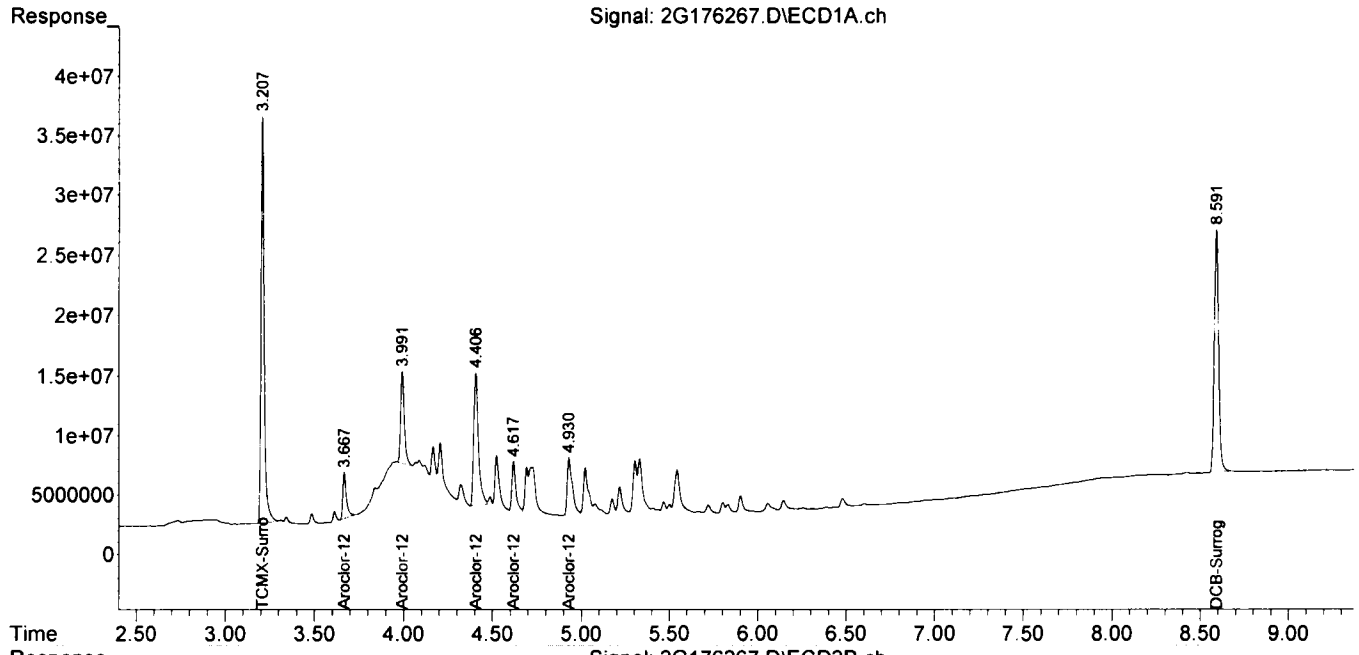
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

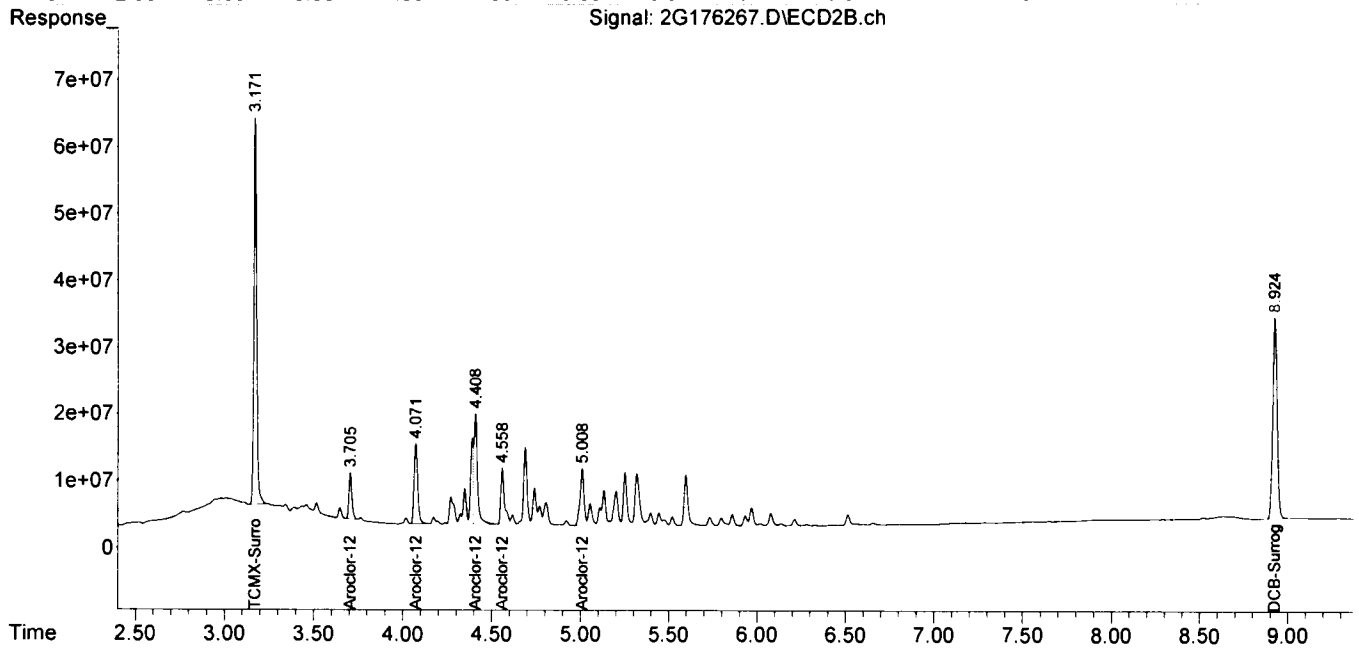
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176267.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 11:54
Operator : AH/PR/KM
Sample : CAL 1242@500PPB
Misc : S,PCB
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:00:28 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Fri Apr 28 16:11:06 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176268.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 12:05
Operator : AH/PR/KM
Sample : CAL 1248@500PPB
Misc : S,PCB
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:11:41 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Fri Apr 28 16:11:06 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.208	3.171	421.5E6	642.2E6	51.472	50.897
2)Aroclor-1016 {1}	0.000	0.000	0	0	N.D. d	N.D. d
3)Aroclor-1016 {2}	0.000	0.000	0	0	N.D. d	N.D. d
4)Aroclor-1016 {3}	0.000	0.000	0	0	N.D. d	N.D. d
5)Aroclor-1016 {4}	0.000	0.000	0	0	N.D. d	N.D. d
6)Aroclor-1016 {5}	0.000	0.000	0	0	N.D. d	N.D. d
7)Aroclor-1260 {1}	0.000	0.000	0	0	N.D. d	N.D. d
8)Aroclor-1260 {2}	0.000	0.000	0	0	N.D. d	N.D. d
9)Aroclor-1260 {3}	0.000	0.000	0	0	N.D. d	N.D. d
10)Aroclor-1260 {4}	0.000	0.000	0	0	N.D. d	N.D. d
11)Aroclor-1260 {5}	0.000	0.000	0	0	N.D. d	N.D. d
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	3.990	4.071	54736147	83476249	511.519m	501.503
26)Aroclor-1248 {2}	4.404	4.408	134.4E6	129.2E6	473.415m	498.002
27)Aroclor-1248 {3}	4.692	4.690	79992998	190.1E6	468.562m	501.644
28)Aroclor-1248 {4}	4.930	5.010	164.5E6	193.8E6	483.516	493.105
29)Aroclor-1248 {5}	5.022	5.251	145.4E6	214.8E6	490.605	494.971
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176268.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 12:05
Operator : AH/PR/KM
Sample : CAL 1248@500PPB
Misc : S,PCB
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:11:41 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Fri Apr 28 16:11:06 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	8.591	8.925	344.7E6	513.6E6	48.294	49.372

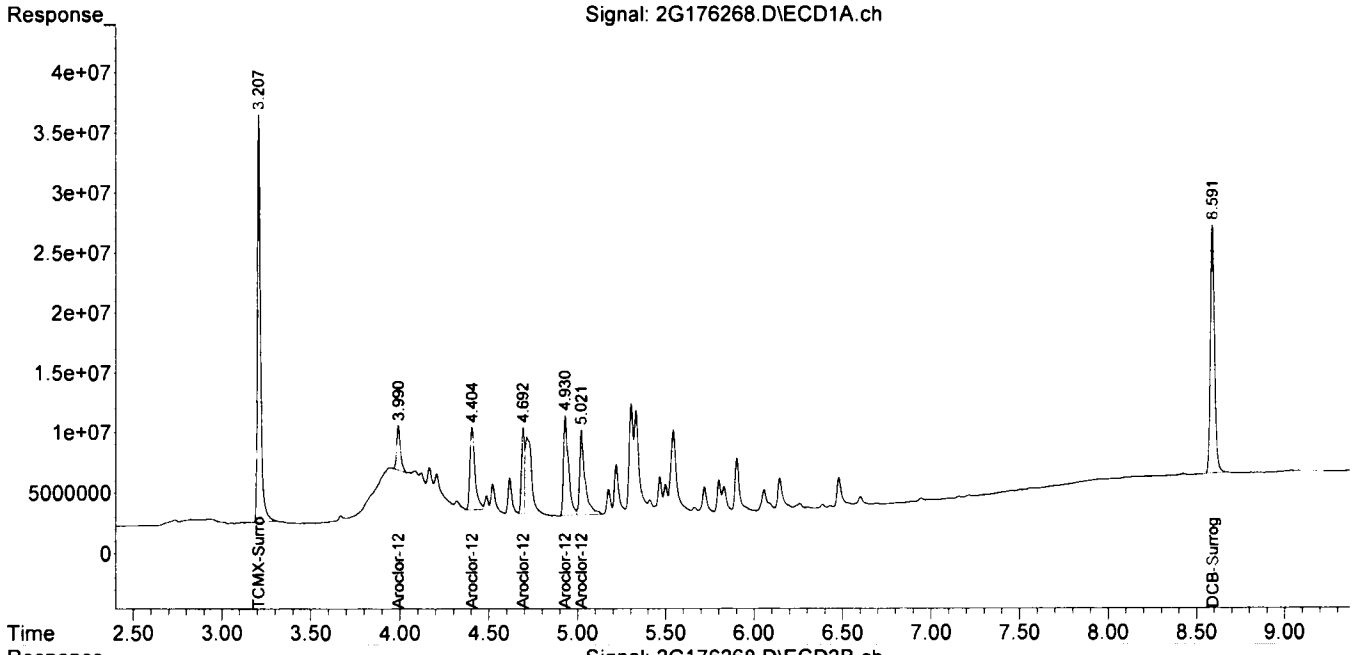
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

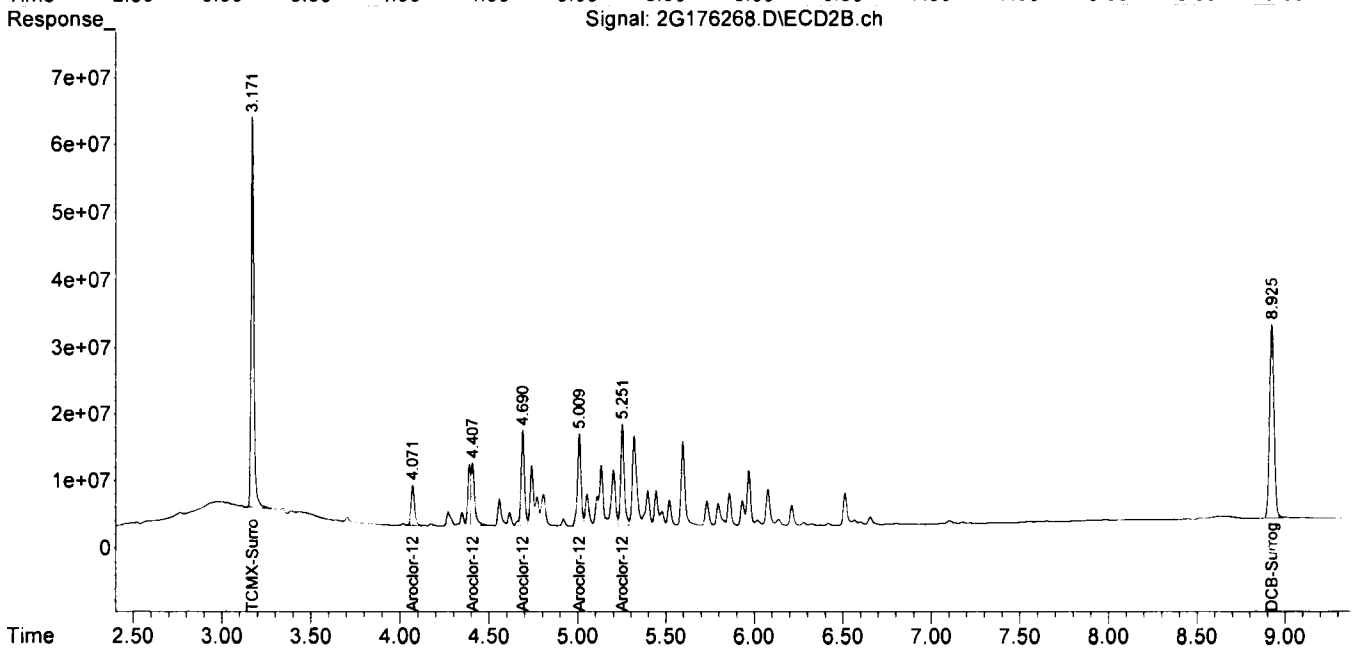
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176268.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 12:05
Operator : AH/PR/KM
Sample : CAL 1248@500PPB
Misc : S,PCB
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:11:41 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Fri Apr 28 16:11:06 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176269.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 12:17
Operator : AH/PR/KM
Sample : CAL 2154@500PPB
Misc : S,PCB
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:02:36 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Fri Apr 28 16:11:06 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.207	3.171	421.9E6	655.2E6	51.515	51.925
2)Aroclor-1016 {1}	0.000	0.000	0	0	N.D. d	N.D. d
3)Aroclor-1016 {2}	0.000	0.000	0	0	N.D. d	N.D. d
4)Aroclor-1016 {3}	0.000	0.000	0	0	N.D. d	N.D. d
5)Aroclor-1016 {4}	0.000	0.000	0	0	N.D. d	N.D. d
6)Aroclor-1016 {5}	0.000	0.000	0	0	N.D. d	N.D. d
7)Aroclor-1260 {1}	0.000	0.000	0	0	N.D. d	N.D. d
8)Aroclor-1260 {2}	0.000	0.000	0	0	N.D. d	N.D. d
9)Aroclor-1260 {3}	0.000	0.000	0	0	N.D. d	N.D. d
10)Aroclor-1260 {4}	0.000	0.000	0	0	N.D. d	N.D. d
11)Aroclor-1260 {5}	0.000	0.000	0	0	N.D. d	N.D. d
12)Aroclor-1221 {1}	3.483	3.517	37366676	60247215	478.427	473.765
13)Aroclor-1221 {2}	3.612	3.647	22313091	36144634	444.248	475.696
14)Aroclor-1221 {3}	3.667	3.705	91396674	126.5E6	491.694	492.084
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	5.900	5.444	243.2E6	233.3E6	472.436	481.029m
31)Aroclor-1254 {2}	6.040	5.732	127.2E6	93481775	470.040	492.854
32)Aroclor-1254 {3}	6.144	6.077	153.1E6	271.2E6	486.201	483.748
33)Aroclor-1254 {4}	6.259	6.513	110.6E6	149.3E6	471.314	467.528
34)Aroclor-1254 {5}	6.477	7.104	104.5E6	135.8E6	516.545m	484.983m
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176269.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 12:17
Operator : AH/PR/KM
Sample : CAL 2154@500PPB
Misc : S,PCB
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:02:36 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Fri Apr 28 16:11:06 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	8.591	8.926	348.1E6	517.2E6	48.778	49.720

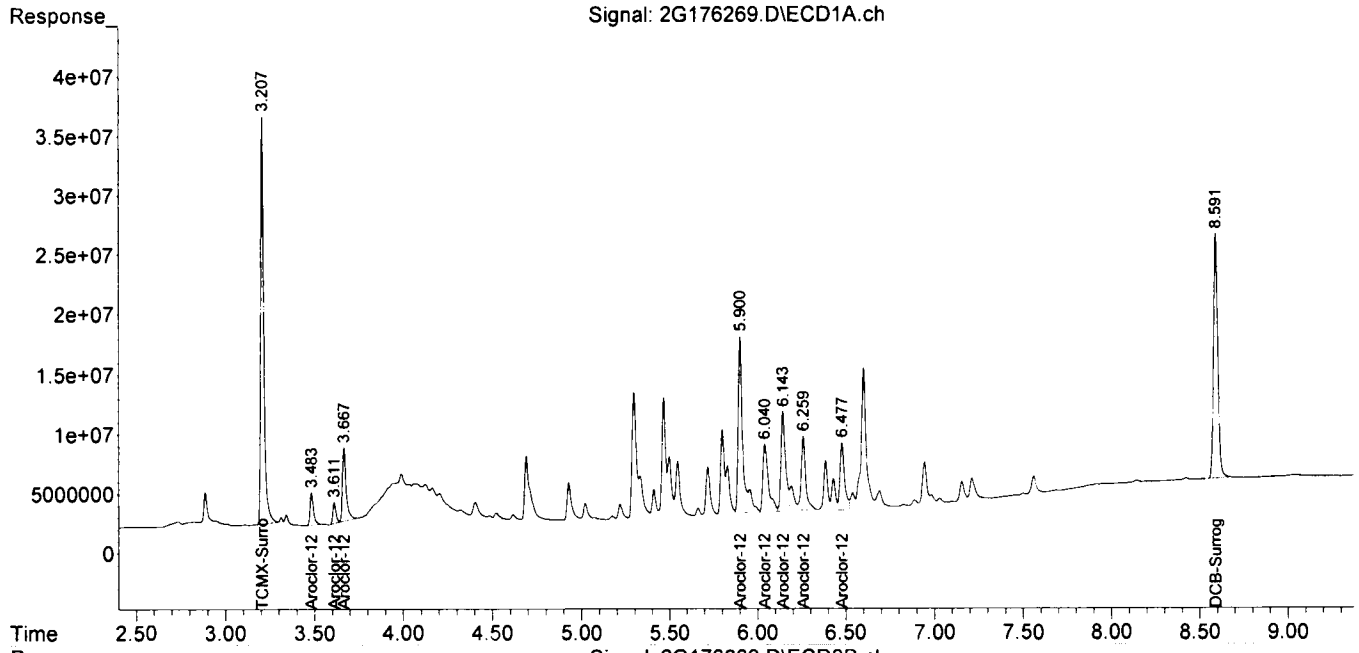
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

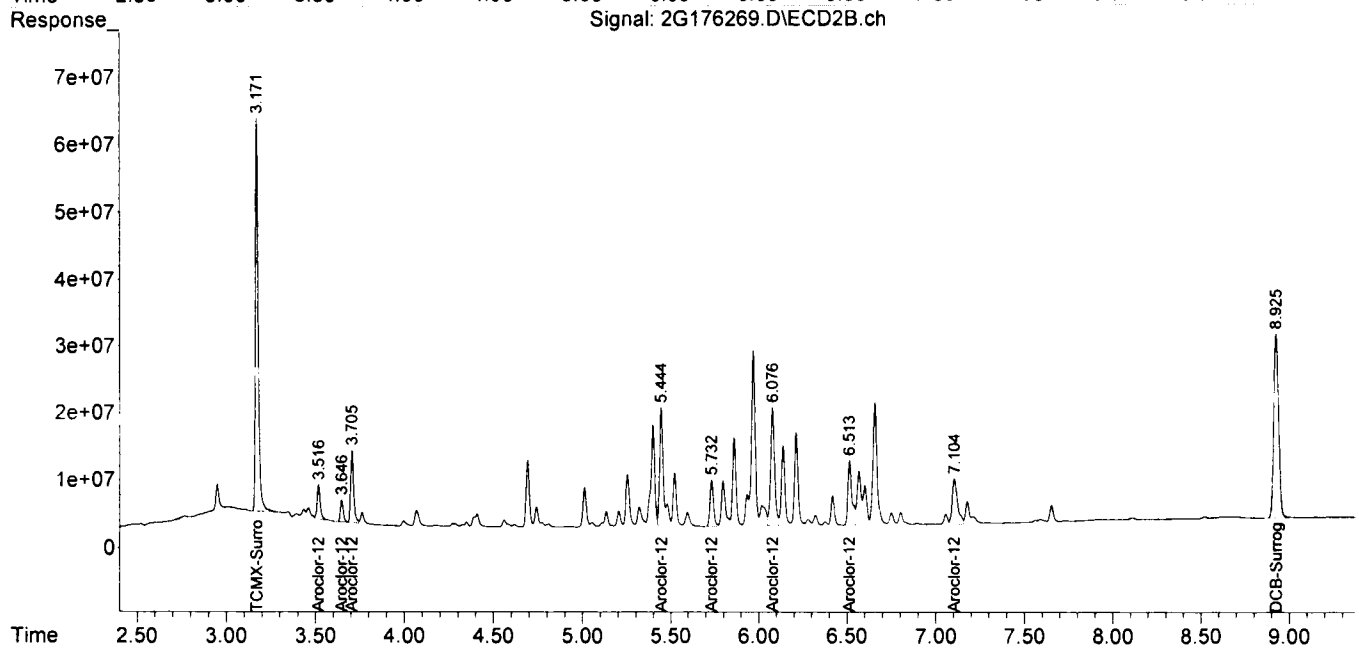
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176269.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 12:17
Operator : AH/PR/KM
Sample : CAL 2154@500PPB
Misc : S,PCB
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:02:36 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Fri Apr 28 16:11:06 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P
Signal #1 Info : 0.32
Signal #2 Phase: db-17
Signal #2 Info : 0.32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176270.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 12:29
Operator : AH/PR/KM
Sample : CAL 1262@500PPB
Misc : S,PCB
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:03:54 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.208	3.171	418.1E6	622.0E6	51.048	49.297
2)Aroclor-1016 {1}	0.000	0.000	0	0	N.D. d	N.D. d
3)Aroclor-1016 {2}	0.000	0.000	0	0	N.D. d	N.D. d
4)Aroclor-1016 {3}	0.000	0.000	0	0	N.D. d	N.D. d
5)Aroclor-1016 {4}	0.000	0.000	0	0	N.D. d	N.D. d
6)Aroclor-1016 {5}	0.000	0.000	0	0	N.D. d	N.D. d
7)Aroclor-1260 {1}	0.000	0.000	0	0	N.D. d	N.D. d
8)Aroclor-1260 {2}	0.000	0.000	0	0	N.D. d	N.D. d
9)Aroclor-1260 {3}	0.000	0.000	0	0	N.D. d	N.D. d
10)Aroclor-1260 {4}	0.000	0.000	0	0	N.D. d	N.D. d
11)Aroclor-1260 {5}	0.000	0.000	0	0	N.D. d	N.D. d
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	6.260	6.566	159.5E6	196.9E6	469.043	488.516m
36)Aroclor-1262 {2}	7.497	7.560	149.0E6	252.9E6	461.926	496.678m
37)Aroclor-1262 {3}	7.553	7.651	306.5E6	253.0E6	467.234	477.413
38)Aroclor-1262 {4}	8.143	8.111	144.0E6	279.5E6	485.581	471.782
39)Aroclor-1262 {5}	8.422	8.520	46687162	64979697	481.530	471.409
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176270.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 12:29
Operator : AH/PR/KM
Sample : CAL 1262@500PPB
Misc : S,PCB
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:03:54 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	8.592	8.927	348.7E6	518.0E6	48.862	49.791

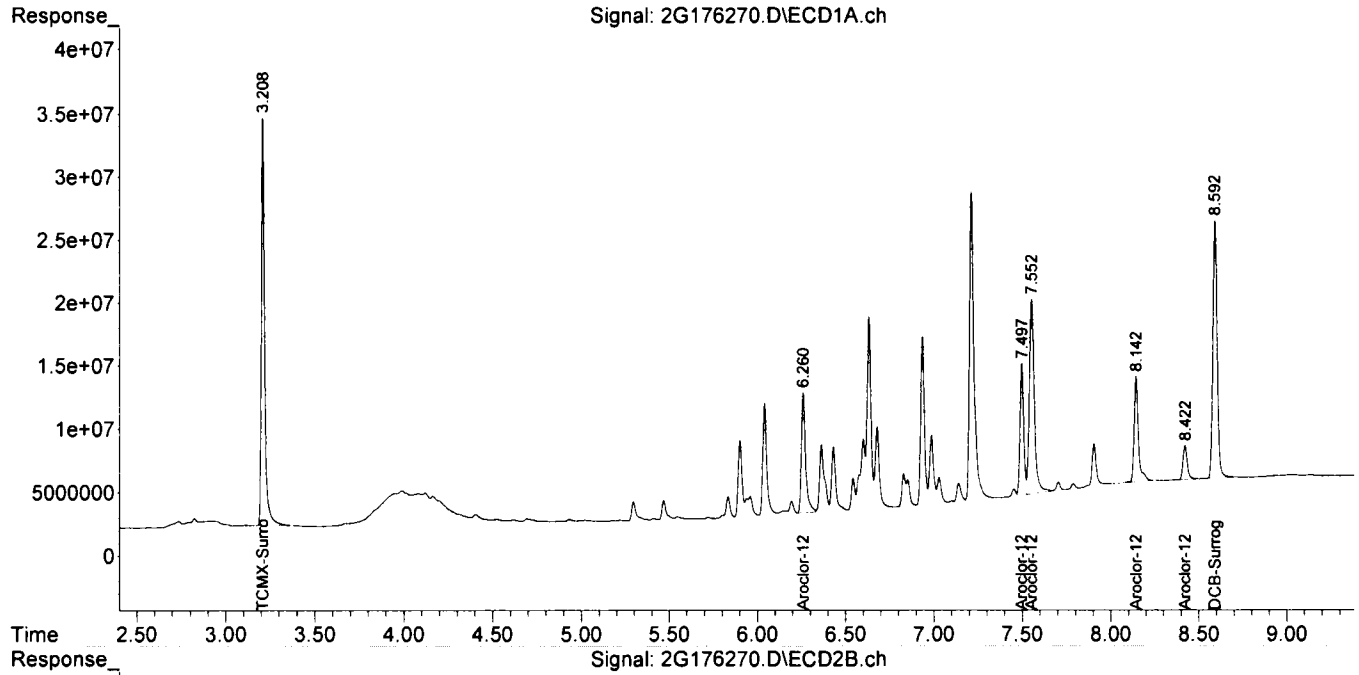
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

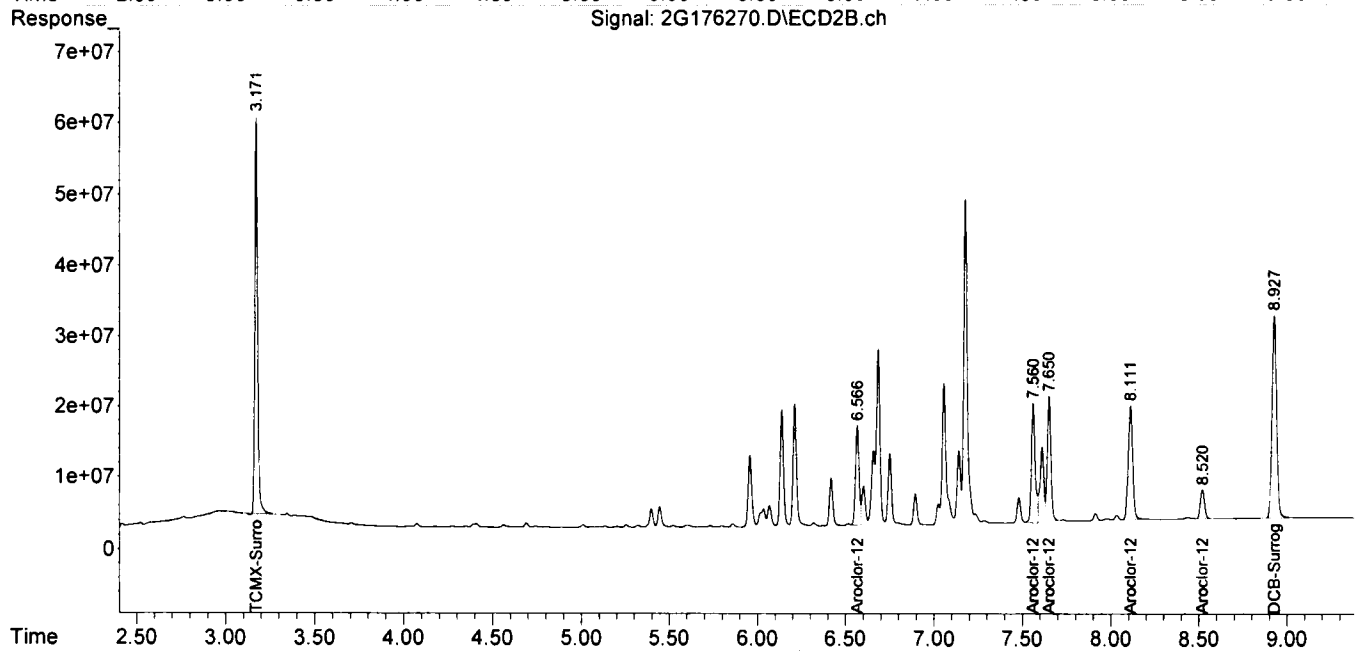
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176270.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 12:29
Operator : AH/PR/KM
Sample : CAL 1262@500PPB
Misc : S,PCB
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:03:54 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





TxtDfile: 2G176281.D ICV FORM Date/Time: 05/17/23 16:57

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
TCMX-Surrogate	1	0		99.7	100	100		70	130
TCMX-Surrogate	2	0		97.68	100	98		70	130
Aroclor-1016	2	1		988.08	1000	99		70	130
Aroclor-1016	1	1		1052.04	1000	105		70	130
Aroclor-1016	2	2		963.86	1000	96		70	130
Aroclor-1016	1	2		978.4	1000	98		70	130
Aroclor-1016	2	3		984.28	1000	98		70	130
Aroclor-1016	1	3		989.4	1000	99		70	130
Aroclor-1016	2	4		969.2	1000	97		70	130
Aroclor-1016	1	4		970.22	1000	97		70	130
Aroclor-1016	2	5		997	1000	100		70	130
Aroclor-1016	1	5		953.18	1000	95		70	130
Aroclor-1260	2	1		954.28	1000	95		70	130
Aroclor-1260	1	1		965.48	1000	97		70	130
Aroclor-1260	2	2		970.05	1000	97		70	130
Aroclor-1260	1	2		981.69	1000	98		70	130
Aroclor-1260	1	3		958.07	1000	96		70	130
Aroclor-1260	2	3		989.2	1000	99		70	130
Aroclor-1260	2	4		1001.14	1000	100		70	130
Aroclor-1260	1	4		994.67	1000	99		70	130
Aroclor-1260	2	5		990.94	1000	99		70	130
Aroclor-1260	1	5		1009.07	1000	101		70	130
DCB-Surrogate	1	0		97.61	100	98		70	130
DCB-Surrogate	2	0		98.07	100	98		70	130

Form7
Continuing Calibration

Method: EPA 8082A

Data File:	2G178073.D	2G178095.D
Method:	8082	8082
Calibration Name:	CAL 1660@1000PP	CAL 1660@1000PP
Calibration Date/Time	06/25/23 19:14	06/25/23 23:33

Compound	Limit	Col	Mr	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff
TCMX-Surrogate	20	1	0	108	100	8.0	107.2	100	7.2									
Aroclor-1016	20	1	1	1064	1000	6.4	1060	1000	6.0									
Aroclor-1016	20	1	2	1040	1000	4.0	1013	1000	1.3									
Aroclor-1016	20	1	3	1089	1000	8.9	1072	1000	7.2									
Aroclor-1016	20	1	4	1075	1000	7.5	1067	1000	6.7									
Aroclor-1016	20	1	5	1031	1000	3.1	1023	1000	2.3									
Aroclor-1260	20	1	1	1010	1000	1.0	1013	1000	1.3									
Aroclor-1260	20	1	2	1014	1000	1.4	1015	1000	1.5									
Aroclor-1260	20	1	3	980.9	1000	1.9	989.7	1000	1.0									
Aroclor-1260	20	1	4	1013	1000	1.3	1005	1000	0.5									
Aroclor-1260	20	1	5	969.4	1000	3.1	932.8	1000	6.7									
DCB-Surrogate	20	1	0	73.16	100	26.8*	66.45	100	33.6*									
Average Difference	20	1	0			6.1			6.3									
TCMX-Surrogate	20	2	0	107.5	100	7.5	107.9	100	7.9									
Aroclor-1016	20	2	1	1016	1000	1.6	1008	1000	0.8									
Aroclor-1016	20	2	2	1034	1000	3.4	1027	1000	2.7									
Aroclor-1016	20	2	3	1619	1000	61.9*	1075	1000	7.5									
Aroclor-1016	20	2	4	1027	1000	2.7	1028	1000	2.8									
Aroclor-1016	20	2	5	1053	1000	5.3	1050	1000	5.0									
Aroclor-1260	20	2	1	974.1	1000	2.6	972.1	1000	2.8									
Aroclor-1260	20	2	2	977.3	1000	2.3	975	1000	2.5									
Aroclor-1260	20	2	3	905.8	1000	9.4	948.8	1000	5.1									
Aroclor-1260	20	2	4	929.4	1000	7.1	885.1	1000	11.5									
Aroclor-1260	20	2	5	814.8	1000	18.5	757.1	1000	24.3*									
DCB-Surrogate	20	2	0	69.91	100	30.1*	63.24	100	36.8*									
Average Difference	20	2	0			12.7			9.1									

Flags/Notes: **** - Values outside of limits for this column/run***

Form7
RtWindow Summary

Method: EPA 8082A

Data File:			2G176271.D		2G178073.D						
Calibration Name:			CAL 1660@50PPB		CAL 1660@1000PPB						
Calibration Date/Time			5/17/2023 12:41:00 PM		6/25/2023 7:14:00 PM						
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
TCMX-Surrogate	1	0	3.21	(3.15 - 3.27)	3.21	(3.15 - 3.27)						
Aroclor-1016	1	1	3.67	(3.63 - 3.71)	3.67	(3.63 - 3.71)						
Aroclor-1016	1	2	3.99	(3.95 - 4.03)	3.99	(3.95 - 4.03)						
Aroclor-1016	1	3	4.41	(4.37 - 4.45)	4.41	(4.37 - 4.45)						
Aroclor-1016	1	4	4.62	(4.58 - 4.66)	4.62	(4.58 - 4.66)						
Aroclor-1016	1	5	4.69	(4.65 - 4.73)	4.69	(4.65 - 4.73)						
Aroclor-1260	1	1	6.04	(6.00 - 6.08)	6.04	(6.00 - 6.08)						
Aroclor-1260	1	2	6.26	(6.22 - 6.30)	6.26	(6.22 - 6.30)						
Aroclor-1260	1	3	6.68	(6.64 - 6.72)	6.68	(6.64 - 6.72)						
Aroclor-1260	1	4	6.94	(6.90 - 6.98)	6.93	(6.89 - 6.97)						
Aroclor-1260	1	5	7.56	(7.52 - 7.60)	7.56	(7.52 - 7.60)						
Aroclor-1221	1	1	3.48	(3.44 - 3.52)								
Aroclor-1221	1	2	3.61	(3.57 - 3.65)								
Aroclor-1221	1	3	3.67	(3.63 - 3.71)								
Aroclor-1232	1	1	3.67	(3.63 - 3.71)								
Aroclor-1232	1	2	3.99	(3.95 - 4.03)								
Aroclor-1232	1	3	4.41	(4.37 - 4.45)								
Aroclor-1232	1	4	4.62	(4.58 - 4.66)								
Aroclor-1232	1	5	4.69	(4.65 - 4.73)								
Aroclor-1242	1	1	3.67	(3.63 - 3.71)								
Aroclor-1242	1	2	3.99	(3.95 - 4.03)								
Aroclor-1242	1	3	4.41	(4.37 - 4.45)								
Aroclor-1242	1	4	4.62	(4.58 - 4.66)								
Aroclor-1242	1	5	4.93	(4.89 - 4.97)								
Aroclor-1248	1	1	3.99	(3.95 - 4.03)								
Aroclor-1248	1	2	4.40	(4.36 - 4.44)								
Aroclor-1248	1	3	4.69	(4.65 - 4.73)								
Aroclor-1248	1	4	4.93	(4.89 - 4.97)								
Aroclor-1248	1	5	5.02	(4.98 - 5.06)								
Aroclor-1254	1	1	5.90	(5.86 - 5.94)								
Aroclor-1254	1	2	6.04	(6.00 - 6.08)								
Aroclor-1254	1	3	6.14	(6.10 - 6.18)								
Aroclor-1254	1	4	6.26	(6.22 - 6.30)								
Aroclor-1254	1	5	6.48	(6.44 - 6.52)								
Aroclor-1262	1	1	6.26	(6.22 - 6.30)								
Aroclor-1262	1	2	7.50	(7.46 - 7.54)								
Aroclor-1262	1	3	7.55	(7.51 - 7.59)								
Aroclor-1262	1	4	8.14	(8.10 - 8.18)								
Aroclor-1262	1	5	8.42	(8.38 - 8.46)								
Aroclor-1268	1	1	6.93	(6.89 - 6.97)								
Aroclor-1268	1	2	7.21	(7.17 - 7.25)								
Aroclor-1268	1	3	7.70	(7.66 - 7.74)								
Aroclor-1268	1	4	7.79	(7.75 - 7.83)								
Aroclor-1268	1	5	8.42	(8.38 - 8.46)								
DCB-Surrogate	1	0	8.59	(8.53 - 8.65)	8.59	(8.53 - 8.65)						
TCMX-Surrogate	2	0	3.17	(3.11 - 3.23)	3.17	(3.11 - 3.23)						
Aroclor-1016	2	1	3.71	(3.67 - 3.75)	3.70	(3.66 - 3.74)						
Aroclor-1016	2	2	4.07	(4.03 - 4.11)	4.07	(4.03 - 4.11)						
Aroclor-1016	2	3	4.41	(4.37 - 4.45)	4.41	(4.37 - 4.45)						
Aroclor-1016	2	4	4.56	(4.52 - 4.60)	4.56	(4.52 - 4.60)						
Aroclor-1016	2	5	4.69	(4.65 - 4.73)	4.69	(4.65 - 4.73)						
Aroclor-1260	2	1	6.14	(6.10 - 6.18)	6.13	(6.09 - 6.17)						
Aroclor-1260	2	2	6.21	(6.17 - 6.25)	6.21	(6.17 - 6.25)						
Aroclor-1260	2	3	7.05	(7.01 - 7.09)	7.05	(7.01 - 7.09)						
Aroclor-1260	2	4	7.65	(7.61 - 7.69)	7.65	(7.61 - 7.69)						
Aroclor-1260	2	5	8.11	(8.07 - 8.15)	8.11	(8.07 - 8.15)						
Aroclor-1221	2	1	3.52	(3.48 - 3.56)								
Aroclor-1221	2	2	3.65	(3.61 - 3.69)								
Aroclor-1221	2	3	3.71	(3.67 - 3.75)								
Aroclor-1232	2	1	3.71	(3.67 - 3.75)								
Aroclor-1232	2	2	4.07	(4.03 - 4.11)								
Aroclor-1232	2	3	4.41	(4.37 - 4.45)								
Aroclor-1232	2	4	4.69	(4.65 - 4.73)								
Aroclor-1232	2	5	4.74	(4.70 - 4.78)								
Aroclor-1242	2	1	3.71	(3.67 - 3.75)								
Aroclor-1242	2	2	4.07	(4.03 - 4.11)								
Aroclor-1242	2	3	4.41	(4.37 - 4.45)								
Aroclor-1242	2	4	4.56	(4.52 - 4.60)								
Aroclor-1242	2	5	5.01	(4.97 - 5.05)								
Aroclor-1248	2	1	4.07	(4.03 - 4.11)								
Aroclor-1248	2	2	4.41	(4.37 - 4.45)								
Aroclor-1248	2	3	4.69	(4.65 - 4.73)								
Aroclor-1248	2	4	5.01	(4.97 - 5.05)								
Aroclor-1248	2	5	5.25	(5.21 - 5.29)								
Aroclor-1254	2	1	5.44	(5.40 - 5.48)								
Aroclor-1254	2	2	5.73	(5.69 - 5.77)								
Aroclor-1254	2	3	6.08	(6.04 - 6.12)								
Aroclor-1254	2	4	6.51	(6.47 - 6.55)								
Aroclor-1254	2	5	7.10	(7.06 - 7.14)								
Aroclor-1262	2	1	6.57	(6.53 - 6.61)								
Aroclor-1262	2	2	7.56	(7.52 - 7.60)								
Aroclor-1262	2	3	7.65	(7.61 - 7.69)								
Aroclor-1262	2	4	8.11	(8.07 - 8.15)								
Aroclor-1262	2	5	8.52	(8.48 - 8.56)								
Aroclor-1268	2	1	7.14	(7.10 - 7.18)								
Aroclor-1268	2	2	7.18	(7.14 - 7.22)								
Aroclor-1268	2	3	7.91	(7.87 - 7.95)								
Aroclor-1268	2	4	8.03	(7.99 - 8.07)								
Aroclor-1268	2	5	8.52	(8.48 - 8.56)								
DCB-Surrogate	2	0	8.93	(8.87 - 8.99)	8.92	(8.86 - 8.98)						

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-25-23\
Data File : 2G178073.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2023 19:14
Operator : AH/PR/KM
Sample : CAL 1660@1000PPB
Misc : S,PCB:0.5
ALS Vial : 43 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 09:22:53 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2	
Target Compounds							
1)TCMX-Surrogate	3.211	3.170	913.6E6	1378.2E6	107.965	107.474	
2)Aroclor-1016 {1}	3.668	3.703	136.9E6	188.2E6	1063.533	1015.613	
3)Aroclor-1016 {2}	3.992	4.070	325.4E6	487.4E6	1039.877m	1034.159	
4)Aroclor-1016 {3}	4.408	4.405	675.3E6	1031.3E6	1089.015	1618.927	#
5)Aroclor-1016 {4}	4.618	4.556	214.9E6	342.7E6	1074.794	1026.777	
6)Aroclor-1016 {5}	4.692	4.686	143.7E6	455.8E6	1031.206	1053.108	
7)Aroclor-1260 {1}	6.038	6.135	388.3E6	625.7E6	1010.139	974.046	
8)Aroclor-1260 {2}	6.259	6.209	454.5E6	657.1E6	1013.656	977.278	
9)Aroclor-1260 {3}	6.677	7.052	189.0E6	417.2E6	980.873	905.786	
10)Aroclor-1260 {4}	6.934	7.648	324.8E6	505.6E6	1013.178	929.391	
11)Aroclor-1260 {5}	7.556	8.107	496.9E6	263.0E6	969.349	814.833	
45)DCB-Surrogate	8.589	8.922	522.8E6	744.0E6	73.165	69.906	

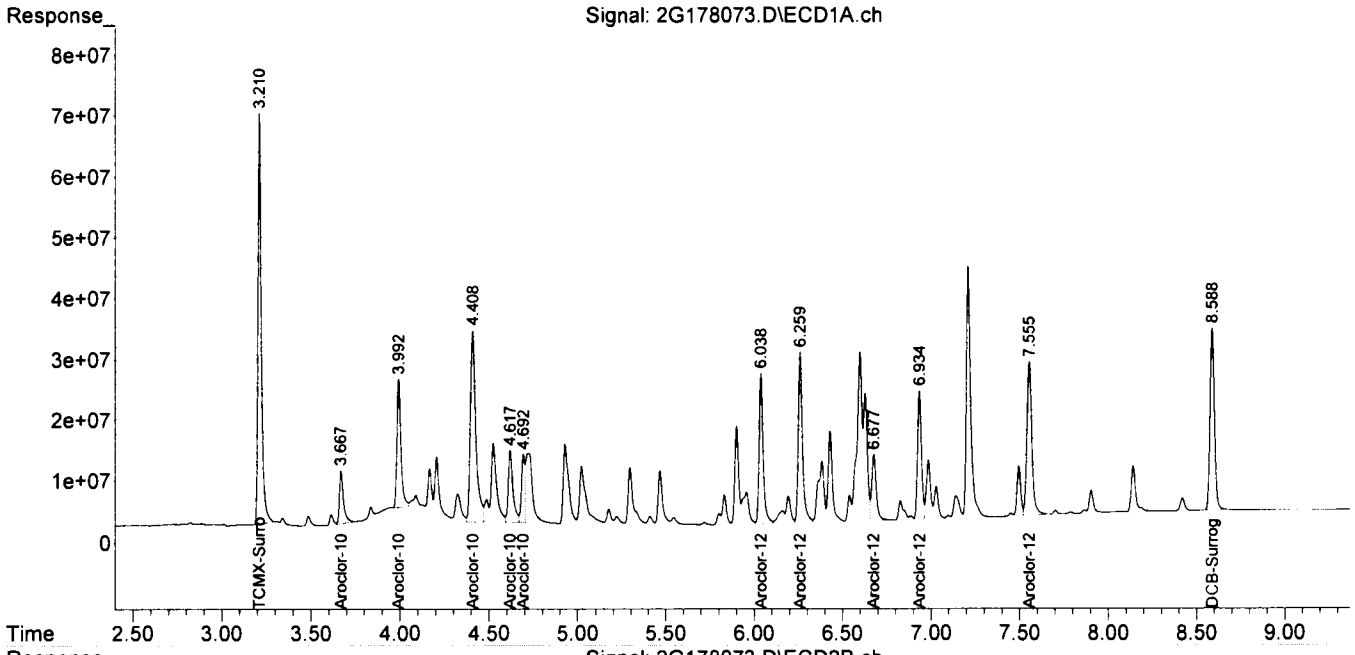
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

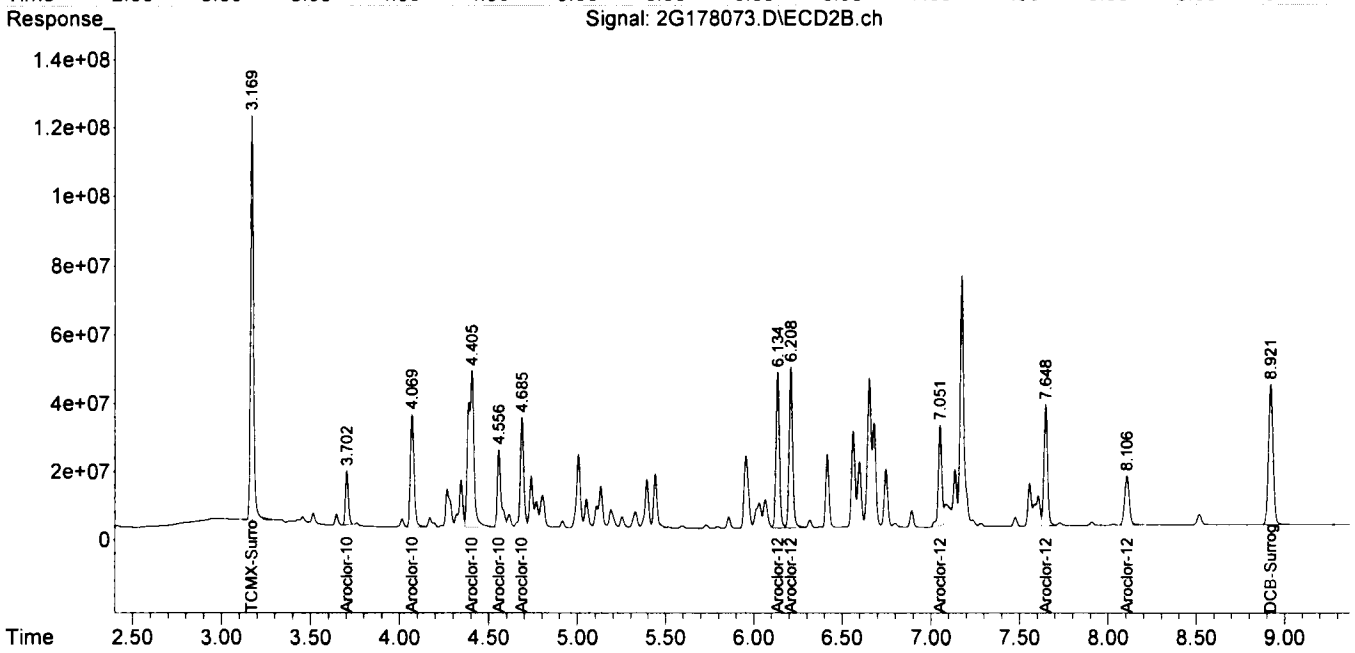
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-25-23\
Data File : 2G178073.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2023 19:14
Operator : AH/PR/KM
Sample : CAL 1660@1000PPB
Misc : S,PCB:0.5
ALS Vial : 43 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 09:22:53 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-25-23\
Data File : 2G178095.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2023 23:33
Operator : AH/PR/KM
Sample : CAL 1660@1000PPB
Misc : S,PCB:0.5
ALS Vial : 64 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 11:09:20 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.212	3.166	907.0E6	1383.6E6	107.186	107.897m
2)Aroclor-1016 {1}	3.668	3.699	136.4E6	186.8E6	1059.649	1008.167
3)Aroclor-1016 {2}	3.991	4.066	316.9E6	484.0E6	1012.887m	1027.027
4)Aroclor-1016 {3}	4.408	4.401	664.9E6	684.9E6	1072.161	1075.107m
5)Aroclor-1016 {4}	4.618	4.552	213.3E6	343.2E6	1066.953	1028.234
6)Aroclor-1016 {5}	4.692	4.682	142.6E6	454.6E6	1022.771	1050.227
7)Aroclor-1260 {1}	6.038	6.130	389.6E6	624.5E6	1013.347	972.047
8)Aroclor-1260 {2}	6.259	6.204	455.1E6	655.6E6	1015.049	974.969
9)Aroclor-1260 {3}	6.677	7.047	190.7E6	437.0E6	989.697	948.845
10)Aroclor-1260 {4}	6.933	7.643	322.3E6	481.5E6	1005.081	885.107
11)Aroclor-1260 {5}	7.554	8.102	478.2E6	244.3E6	932.788	757.102
45)DCB-Surrogate	8.588	8.916	474.8E6	673.0E6	66.451	63.239

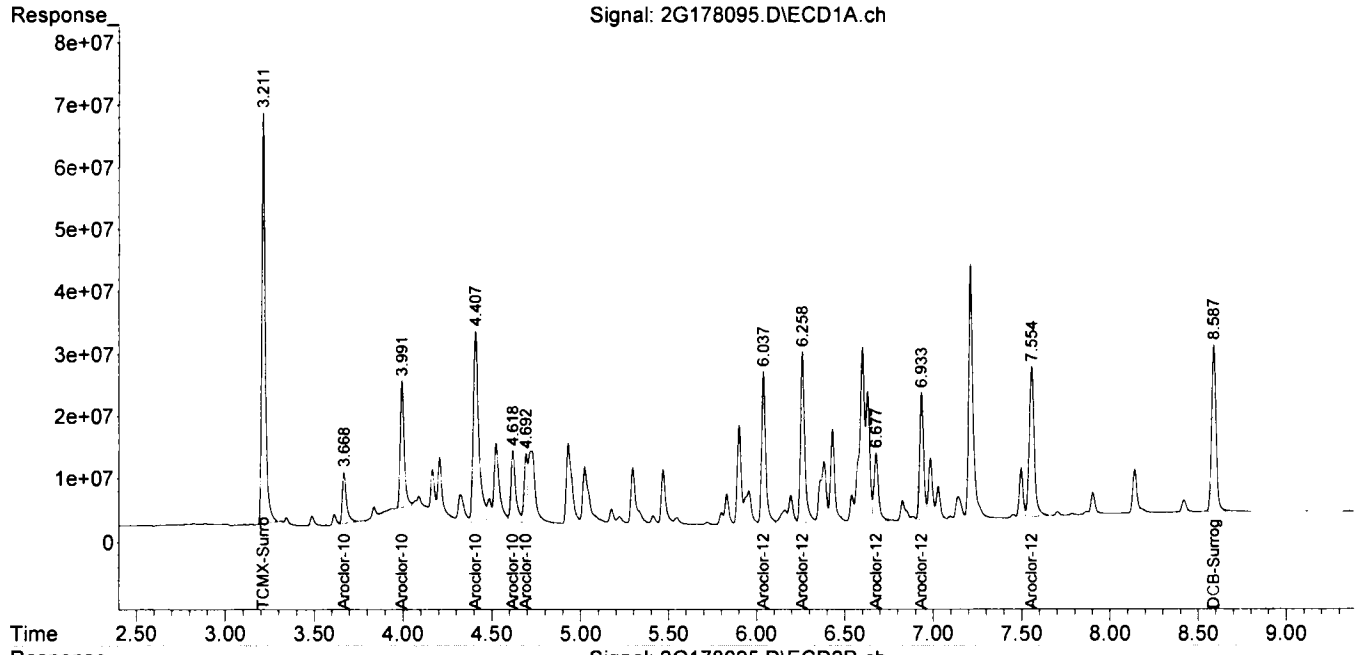
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

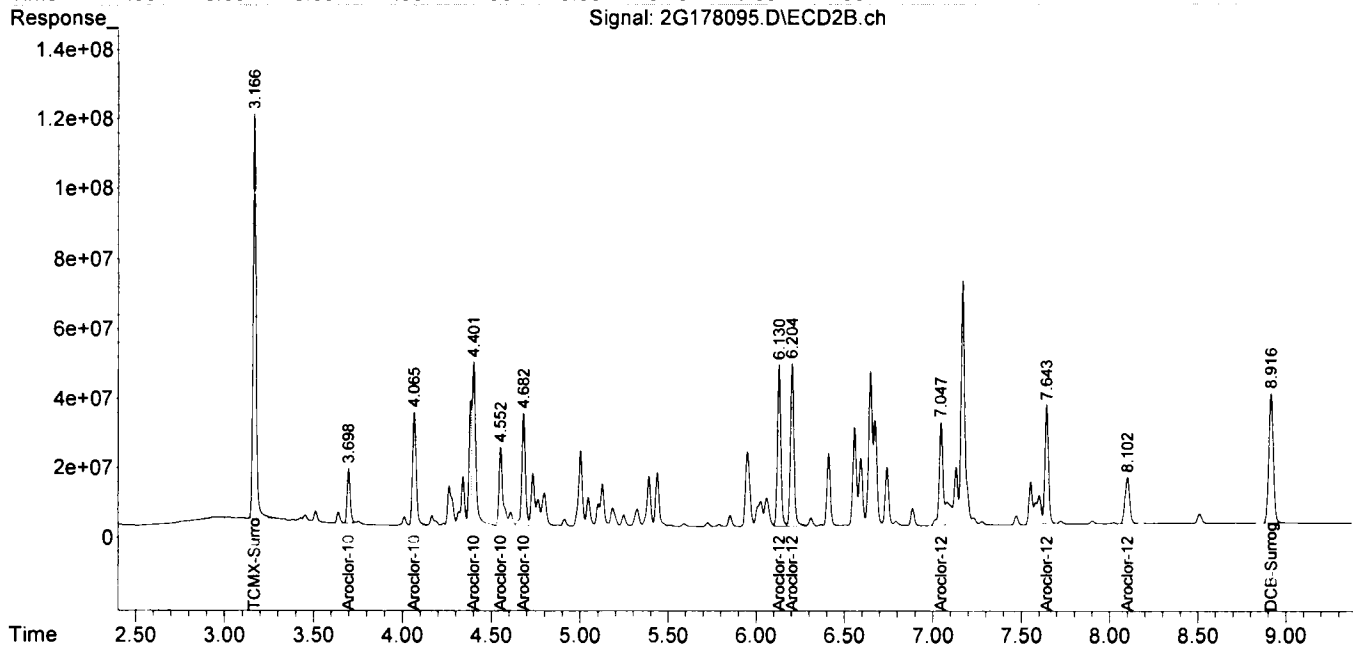
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-25-23\
Data File : 2G178095.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2023 23:33
Operator : AH/PR/KM
Sample : CAL 1660@1000PPB
Misc : S,PCB:0.5
ALS Vial : 64 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 11:09:20 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





GC PCB Data
Raw QC Data

Form1

ORGANICS PCB REPORT

Sample Number: SMB108890
Client Id:
Data File: 2G178094.D
Analysis Date: 06/25/23 23:21
Date Rec/Extracted: NA-06/23/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.025	U	11097-69-1	Aroclor-1254	0.025	U
11104-28-2	Aroclor-1221	0.025	U	11096-82-5	Aroclor-1260	0.025	U
11141-16-5	Aroclor-1232	0.025	U	37324-23-5	Aroclor-1262	0.025	U
53469-21-9	Aroclor-1242	0.025	U	11100-14-4	Aroclor-1268	0.025	U
12672-29-6	Aroclor-1248	0.025	U				

Worksheet #: 696318

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-25-23\
Data File : 2G178094.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2023 23:21
Operator : AH/PR/KM
Sample : SMB108890
Misc : S,PCB
ALS Vial : 63 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 11:08:39 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.209	3.163	927.2E6	1371.8E6	109.566	106.970
45)DCB-Surrogate	8.585	8.913	509.5E6	724.6E6	71.315	68.081

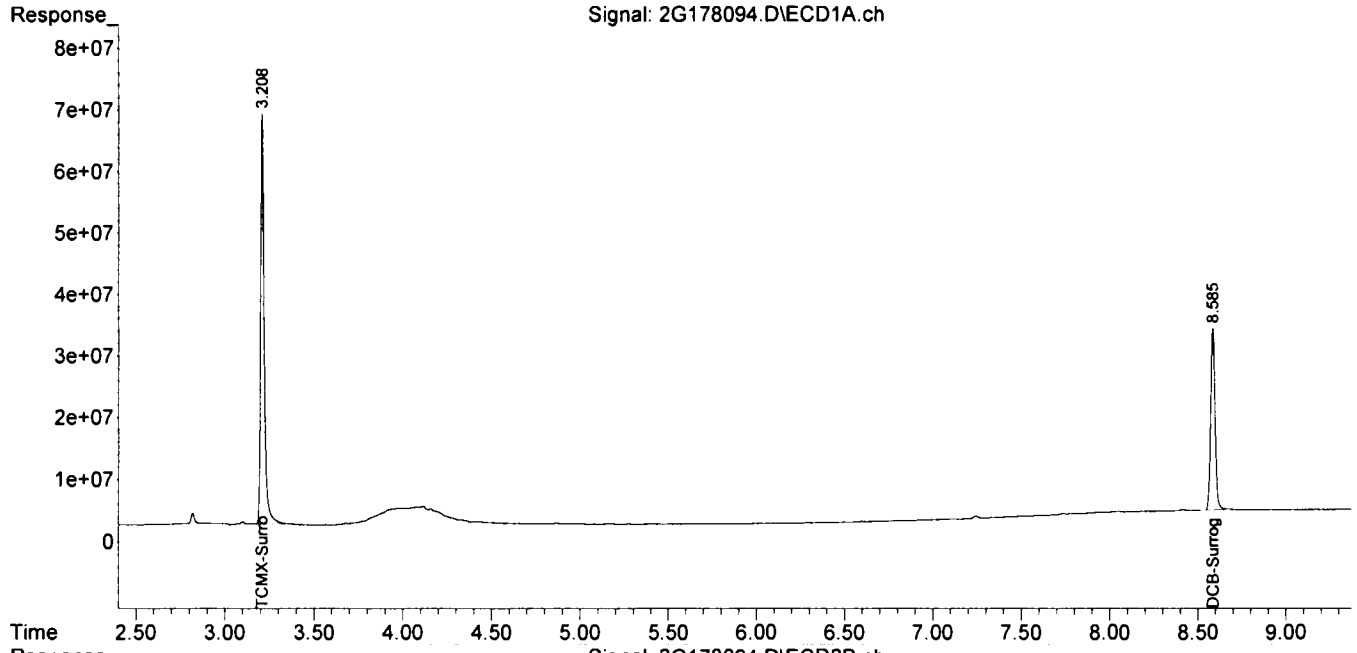
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

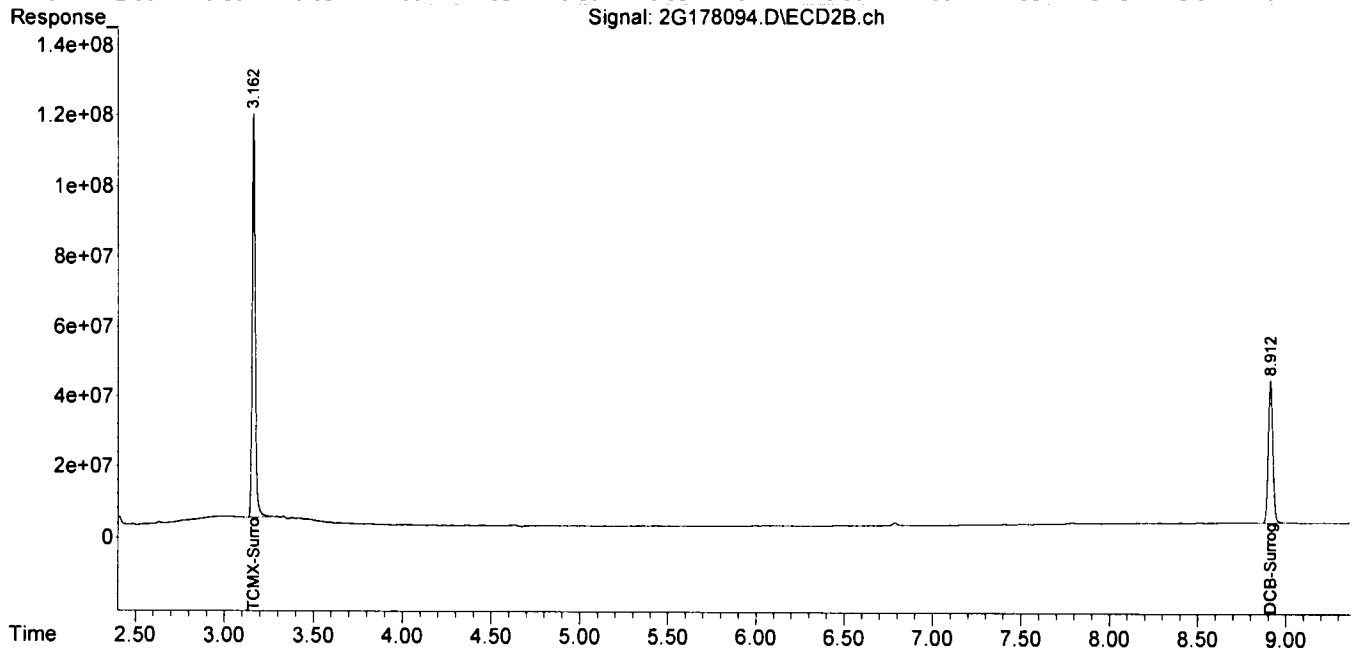
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-25-23\
Data File : 2G178094.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2023 23:21
Operator : AH/PR/KM
Sample : SMB108890
Misc : S,PCB
ALS Vial : 63 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 11:08:39 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Form3
Recovery Data Laboratory Limits
QC Batch: SMB108890

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2G178092.D	SMB108890(MS)	6/25/2023 10:58:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	912.278	0	1000	91	16	196
Aroclor-1260 -Total	1	883.404	0	1000	88	10	202

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-25-23\
Data File : 2G178092.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2023 22:58
Operator : AH/PR/KM
Sample : SMB108890(MS)
Misc : S,PCB
ALS Vial : 61 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 11:08:16 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.212	3.175	960.7E6	1450.6E6	113.536	113.118
2)Aroclor-1016 {1}	3.668	3.707	118.5E6	161.3E6	920.667	870.386
3)Aroclor-1016 {2}	3.991	4.074	282.7E6	414.8E6	903.656m	880.108
4)Aroclor-1016 {3}	4.407	4.410	583.7E6	582.7E6	941.250	914.812
5)Aroclor-1016 {4}	4.617	4.561	184.1E6	292.1E6	920.900	875.273
6)Aroclor-1016 {5}	4.692	4.690	122.0E6	384.0E6	874.906	887.246
7)Aroclor-1260 {1}	6.038	6.139	343.6E6	553.3E6	893.832	861.258
8)Aroclor-1260 {2}	6.259	6.213	406.7E6	588.1E6	907.017	874.627
9)Aroclor-1260 {3}	6.677	7.056	165.0E6	392.8E6	856.522	852.851m
10)Aroclor-1260 {4}	6.933	7.652	292.2E6	444.9E6	911.207	817.811
11)Aroclor-1260 {5}	7.555	8.111	434.9E6	230.4E6	848.437	713.980
45)DCB-Surrogate	8.588	8.924	532.0E6	769.6E6	74.460	72.309

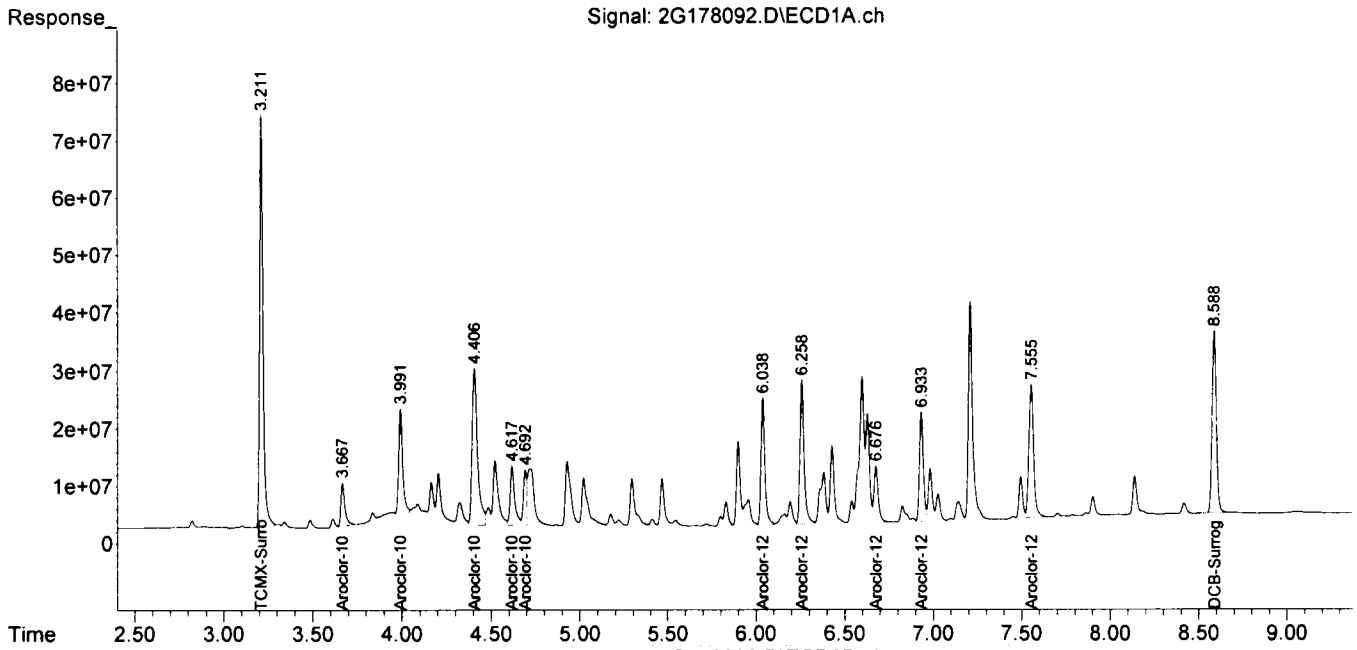
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

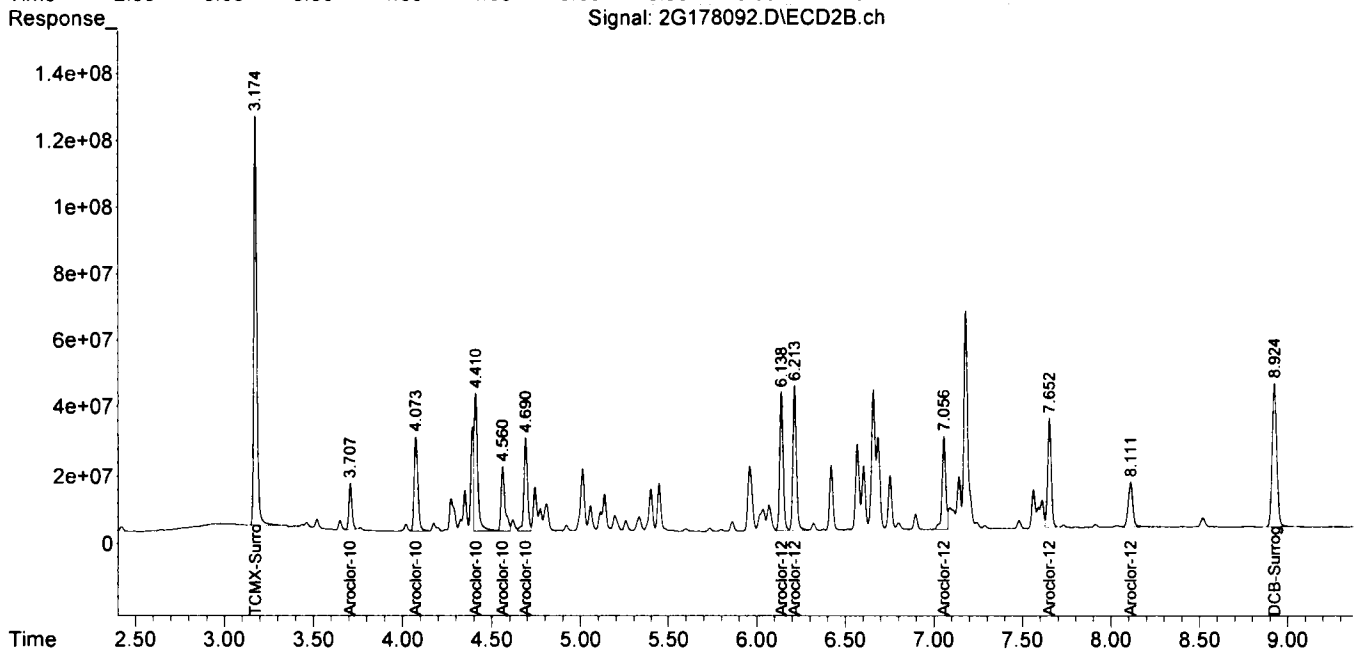
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-25-23\
Data File : 2G178092.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2023 22:58
Operator : AH/PR/KM
Sample : SMB108890(MS)
Misc : S,PCB
ALS Vial : 61 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 11:08:16 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P
Signal #1 Info : 0.32
Signal #2 Phase: db-17
Signal #2 Info : 0.32





Form3
Recovery Data Laboratory Limits
QC Batch: SMB108890

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2G178090.D	AD38586-008(MSD:AD38586-0	6/25/2023 10:34:00 PM
Non Spike(If applicable):	2G178089.D	AD38586-001	6/25/2023 10:22:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	1079.11	0	1000	108	16	196
Aroclor-1260 -Total	1	1039.344	0	1000	104	10	202

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2G178091.D	AD38586-007(MS:AD38586-00	6/25/2023 10:46:00 PM
Non Spike(If applicable):	2G178089.D	AD38586-001	6/25/2023 10:22:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	1251.726	0	1000	125	16	196
Aroclor-1260 -Total	1	1108.832	0	1000	111	10	202

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form

Form3
RPD Data Laboratory Limits
QC Batch: SMB108890

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2G178090.D	AD38586-008(MSD:AD38586-0	6/25/2023 10:34:00 PM
Duplicate(If applicable):	2G178091.D	AD38586-007(MS:AD38586-00	6/25/2023 10:46:00 PM
Inst Blank(If applicable):			

Method: 8082 | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Aroclor-1016 -Total	1	1079.11	1251.726	15	52
Aroclor-1260 -Total	1	1039.344	1108.832	6.5	52

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-25-23\
Data File : 2G178089.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2023 22:22
Operator : AH/PR/KM
Sample : AD38586-001
Misc : S,PCB
ALS Vial : 58 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 11:06:51 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
	Target Compounds						
1)	TCMX-Surrogate	3.210	3.174	935.7E6	1373.9E6	110.581	107.137m
45)	DCB-Surrogate	8.587	8.925	526.4E6	753.7E6	73.678	70.820

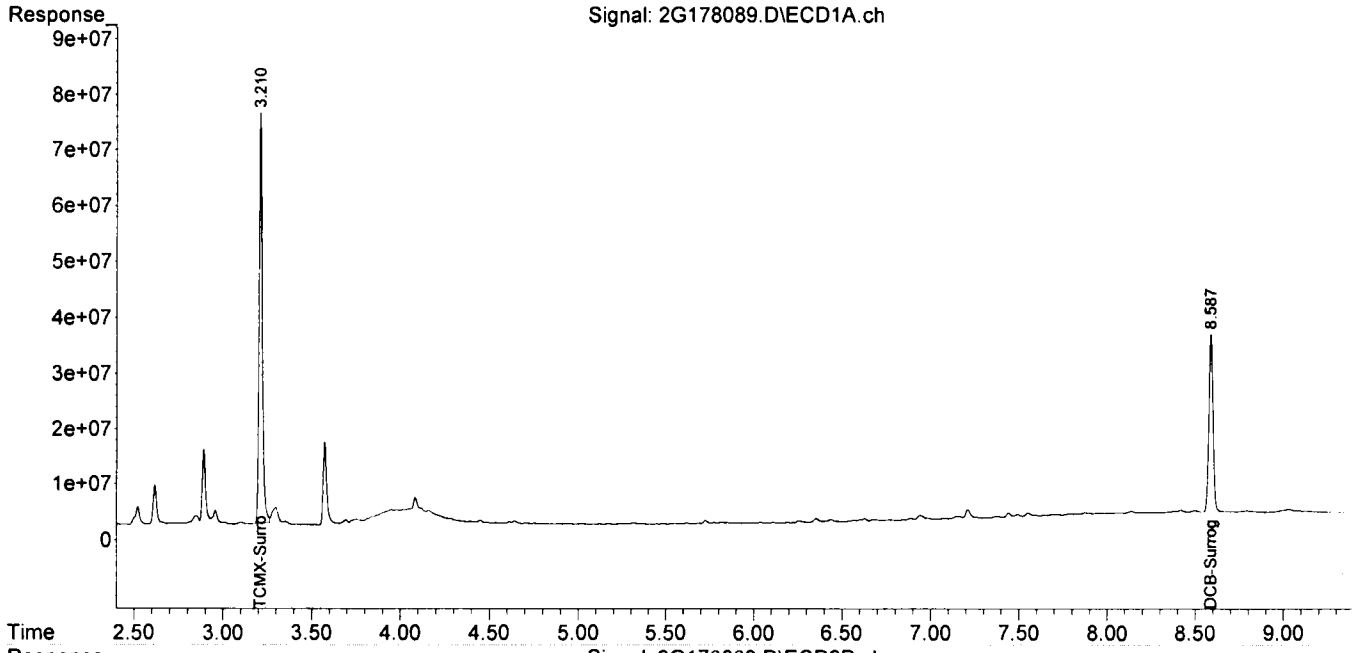
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

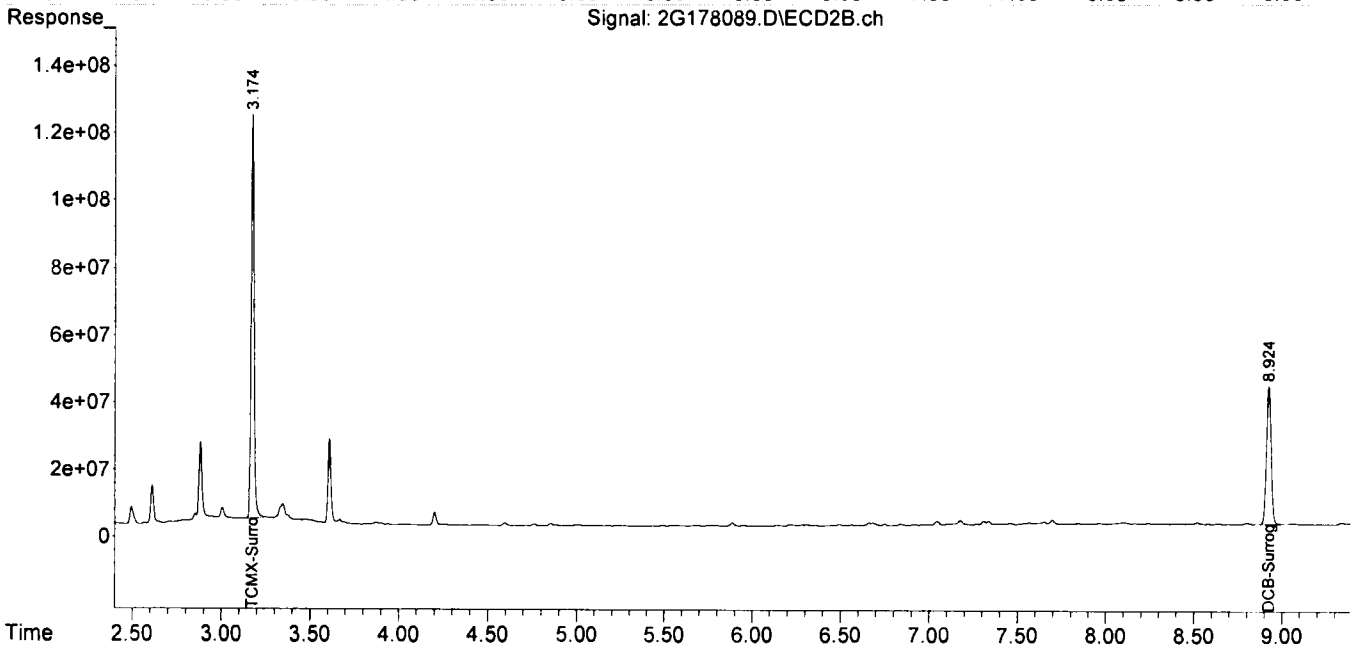
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-25-23\
Data File : 2G178089.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2023 22:22
Operator : AH/PR/KM
Sample : AD38586-001
Misc : S,PCB
ALS Vial : 58 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 11:06:51 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-25-23\
Data File : 2G178090.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2023 22:34
Operator : AH/PR/KM
Sample : AD38586-008(MSD:AD38586-001) (Sig #1); AD38586-008(MSD) (Sig #2)
Misc : S,PCB
ALS Vial : 59 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 11:07:23 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.210	3.173	1123.0E6	1649.8E6	132.716	128.648m
2)Aroclor-1016 {1}	3.666	3.707	138.9E6	191.4E6	1079.476	1032.736
3)Aroclor-1016 {2}	3.990	4.073	326.9E6	476.0E6	1044.950m	1010.002
4)Aroclor-1016 {3}	4.405	4.409	712.5E6	669.7E6	1148.953	1051.280
5)Aroclor-1016 {4}	4.615	4.560	214.6E6	337.5E6	1073.707	1011.164
6)Aroclor-1016 {5}	4.690	4.689	146.2E6	457.6E6	1048.464	1057.256
7)Aroclor-1260 {1}	6.036	6.139	392.9E6	638.0E6	1021.902	993.170
8)Aroclor-1260 {2}	6.256	6.212	472.1E6	697.9E6	1052.816	1037.928
9)Aroclor-1260 {3}	6.675	7.055	182.3E6	440.1E6	946.413	955.370m
10)Aroclor-1260 {4}	6.932	7.651	359.5E6	570.3E6	1121.271	1048.340
11)Aroclor-1260 {5}	7.553	8.111	540.5E6	383.1E6	1054.325	1186.950
45)DCB-Surrogate	8.587	8.925	668.4E6	1034.8E6	93.545	97.231

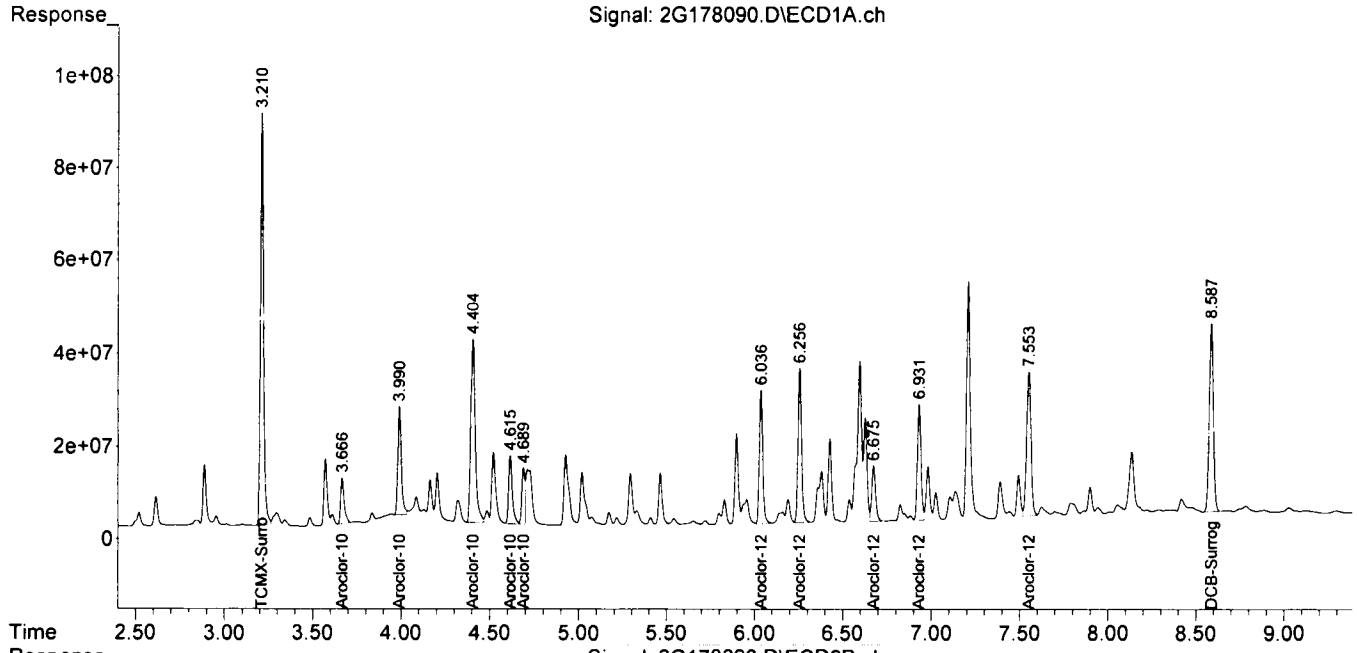
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

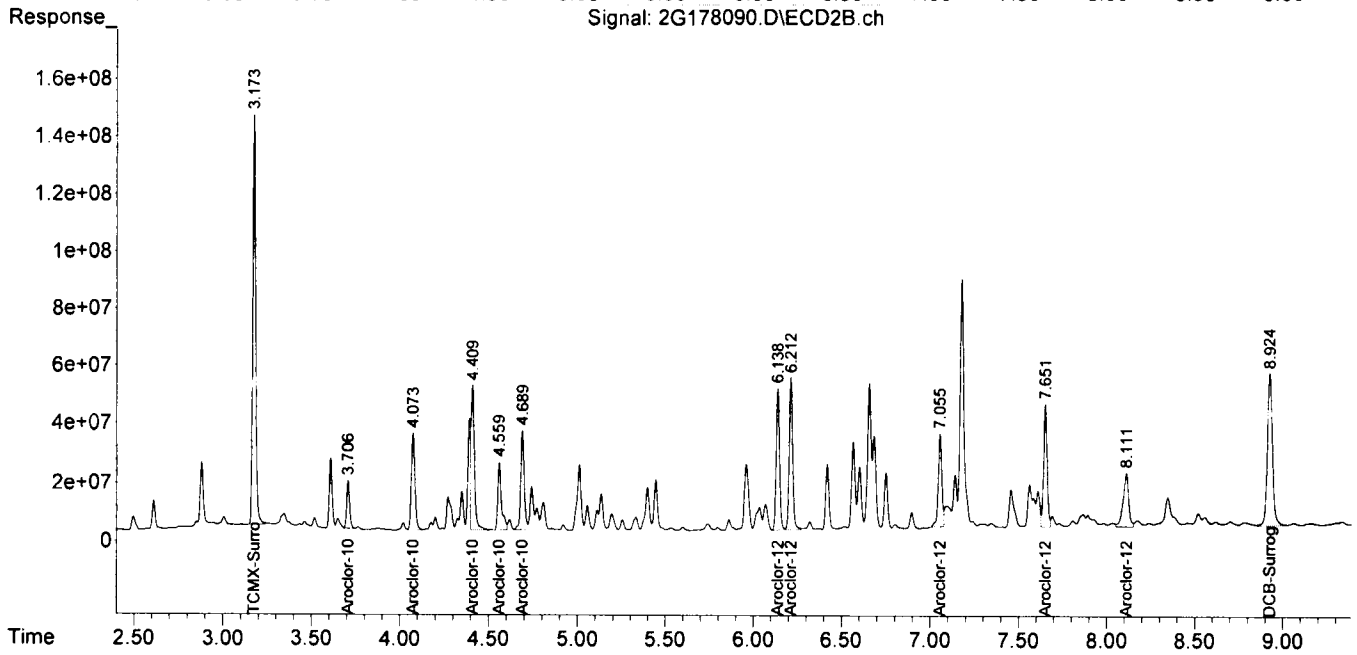
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-25-23\
Data File : 2G178090.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2023 22:34
Operator : AH/PR/KM
Sample : AD38586-008(MSD:AD38586-001) (Sig #1); AD38586-008(MSD) (Sig #2)
Misc : S,PCB
ALS Vial : 59 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 11:07:23 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-25-23\
Data File : 2G178091.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2023 22:46
Operator : AH/PR/KM
Sample : AD38586-007(MS:AD38586-001) (Sig #1); AD38586-007(MS) (Sig #2)
Misc : S,PCB
ALS Vial : 60 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 15:08:14 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.210	3.174	1234.3E6	1778.2E6	145.867	138.667
2)Aroclor-1016 {1}	3.666	3.707	154.7E6	214.5E6	1202.209m	1157.652
3)Aroclor-1016 {2}	3.991	4.073	350.8E6	530.8E6	1121.031m	1126.300
4)Aroclor-1016 {3}	4.405	4.409	803.3E6	730.5E6	1295.404	1146.773
5)Aroclor-1016 {4}	4.616	4.560	249.1E6	384.9E6	1246.215	1153.415
6)Aroclor-1016 {5}	4.691	4.689	162.5E6	493.2E6	1165.723	1139.522
7)Aroclor-1260 {1}	6.036	6.138	420.8E6	683.2E6	1094.447	1063.455
8)Aroclor-1260 {2}	6.257	6.212	508.7E6	757.5E6	1134.416	1126.464
9)Aroclor-1260 {3}	6.676	7.055	198.5E6	512.3E6	1030.126	1112.255
10)Aroclor-1260 {4}	6.932	7.651	389.5E6	560.9E6	1214.881	1031.057
11)Aroclor-1260 {5}	7.553	8.111	548.7E6	305.6E6	1070.275	946.865
45)DCB-Surrogate	8.588	8.924	669.9E6	963.9E6	93.758	90.572

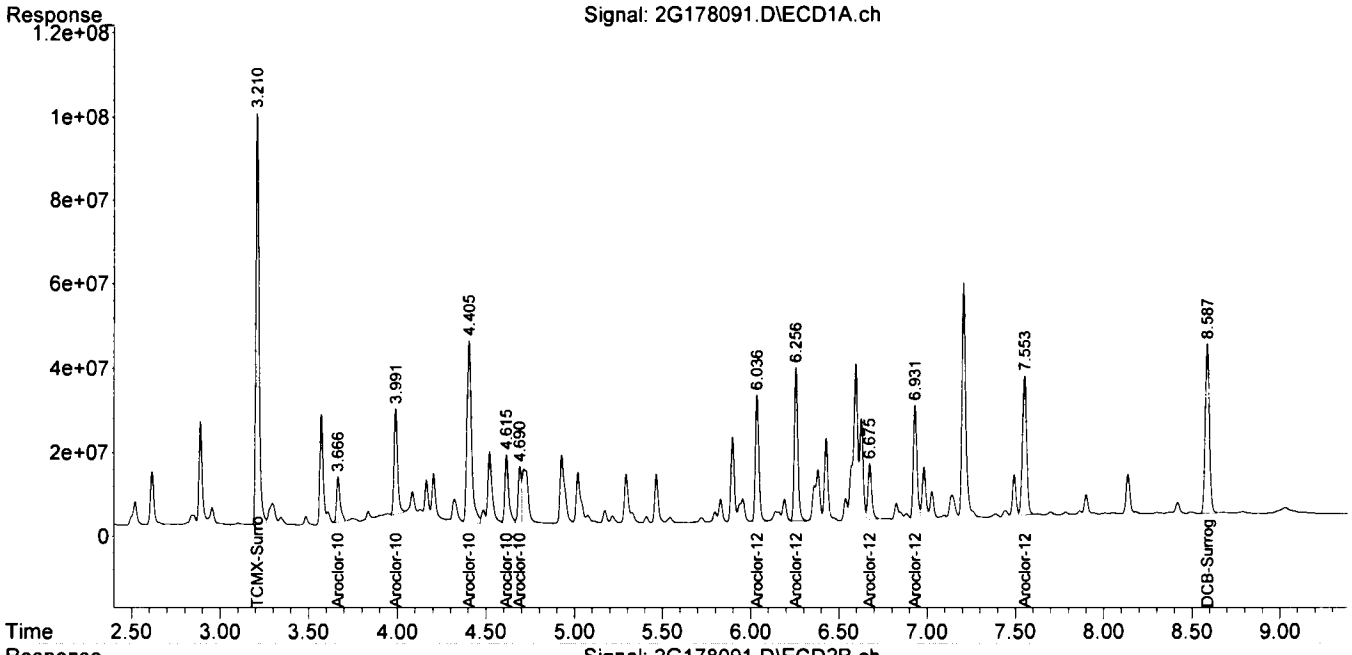
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

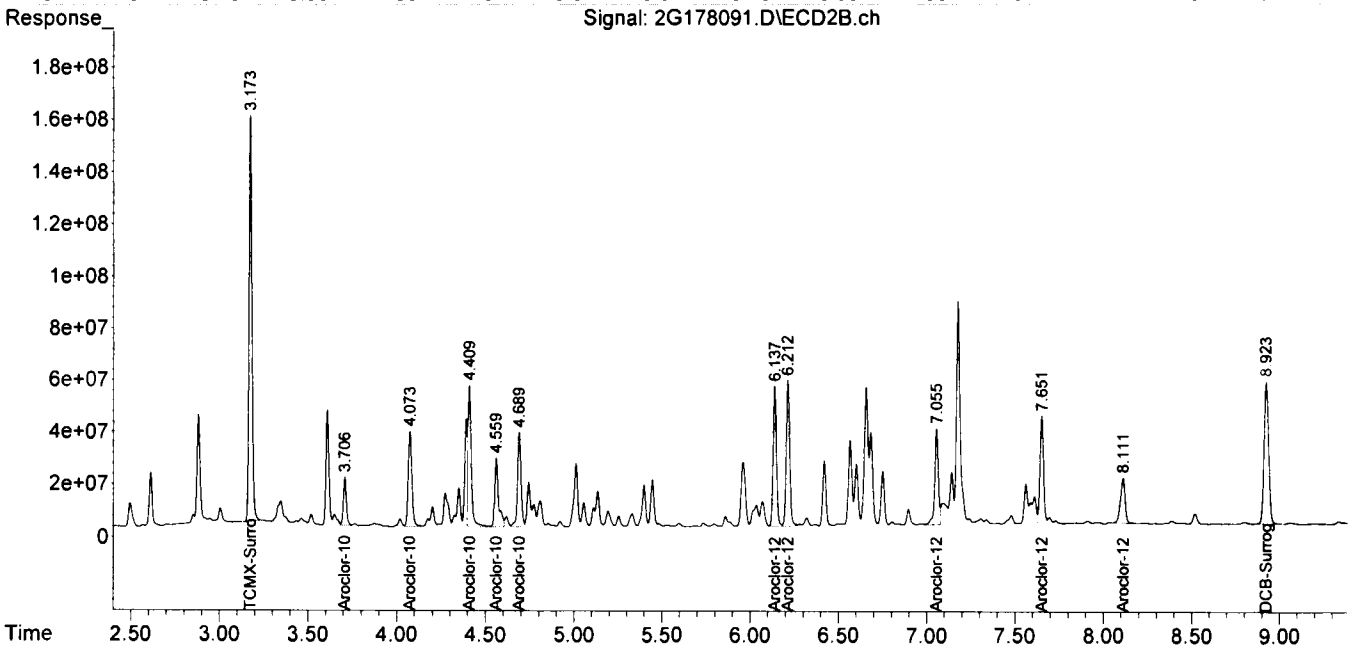
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-25-23\
Data File : 2G178091.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 25 Jun 2023 22:46
Operator : AH/PR/KM
Sample : AD38586-007(MS:AD38586-001) (Sig #1); AD38586-007(MS) (Sig #2)
Misc : S,PCB
ALS Vial : 60 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 15:08:14 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





GC PCB Data
Logbook Data

QC108889 Pest QC108890 PCB

Hampton-Clarke

Pest / PCB SOXTHERM EXTRACTION – Method 3541

Pest Batch No.: 108889
Start Ext. Date/Time: 8:36 6/23/23
End Ext. Date/Time: 5:30 6/23/23

PCB Batch No.: 108890
Soxtherm Used: 1, 2, 5, 6
E-Vap Used: 1, 2

Sample Number	No. in batch Pest	No. in batch PCB	Initial Volume	Final Volume	Extracted By/Position/ Comments
MB108889/90			20G	10 mL	MaL / 1.2 / Balance ID: 041
MBS108889/90					/ 1.4 /
MS38586-007					2.3, 2.5
MSD38586-008					2.4, 2.6
AB8586-001	1	1			/ 6.1 /
-002	2	2			/ 6.2 /
AD38618-001	3	3			/ 5.3 /
AD38633-004	4	4			/ 5.4 /
-009	5	5			/ 5.5 /
-014	6	6			/ 5.6 /
-019	7	7			/ 6.1 /
-024	8	8			/ 6.2 /
-029	9	9			/ 6.3 /
-034	10	10			/ 6.4 /
-039	11	11			/ 6.5 /
-044	12	12			/ 6.6 /
-049	13	13			/ 1.1 /
-054	14	14			/ 1.2 /
-059	15	15			/ 1.3 /
-064	16	16			/ 1.4 /
-069	17	17			/ 1.5 /
-074	18	18			/ 1.6 /
-079	19	19			/ 2.1 /
-084	20	20			/ 2.2 /
					/ / Rack #7
					/ /
					/ /
					/ /
					/ /
					/ /
Copper cleanup:	X	X			
Sulf Acid cleanup:	N/A	X			

6/23

Spike Standards

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
100	10	39304	Pest / PCB / multi
↓	100	395618	Pest / PCB / multi
			Pest / PCB / multi
			Pest / PCB / multi
			Pest / PCB / multi

Surrogate Standards

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
100	10	396477	Pest / PCB multi
			Pest / PCB / multi
			Pest / PCB / multi
			Pest / PCB / multi
			Pest / PCB / multi

Solvent/ Reagent Lots: Acetone 15356 Hexane 15286 Acetone/Hexane 397758 baked Na_2SO_4 397757
baked sand 396329 Copper Powder 15366 Sulfuric Acid 15245

Relinquished By: MaL Date: 6/23/23
Received By: WC Date: 6/23/23

T:\QC\FORMS\LOGBOOK FORMS\extractions\PestPCB Soil Soxtherm Ext Log 2022 in prog.doc

RUN LOG

1-1-2G176266

Instrument: GC_2 Year: 2023
Analyst: AH/PR/KM

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
2G176266.	CAL 3268@500PPB		V-395705	KM 05/23/23		Soil	1	1	608\808	05/17 11:42
2G176267.	CAL 1242@500PPB		V-395716	KM 05/23/23		Soil	1	1	608\808	05/17 11:54
2G176268.	CAL 1248@500PPB		V-395718	KM 05/23/23		Soil	1	1	608\808	05/17 12:05
2G176269.	CAL 2154@500PPB		V-395719	KM 05/23/23		Soil	1	1	608\808	05/17 12:17
2G176270.	CAL 1262@500PPB		V-395720	KM 05/23/23		Soil	1	1	608\808	05/17 12:29
2G176271.	CAL 1660@50PPB		B-34823	KM 05/23/23		Soil	1	1	608\808	05/17 12:41
2G176272.	1660@50PPB	IsCmeS8				Soil	1	1	8082	05/17 12:52
2G176273.	CAL 1660@200PPB		B-34823	KM 05/23/23		Soil	1	1	608\808	05/17 13:04
2G176274.	CAL 1660@500PPB		B-34823	KM 05/23/23		Soil	1	1	608\808	05/17 13:16
2G176275.	CAL 1660@1000PP		B-34823	KM 05/23/23		Soil	1	1	608\808	05/17 13:28
2G176276.	CAL 1660@2000PP		B-34823	KM 05/23/23		Soil	1	1	608\808	05/17 13:39
2G176277.	CAL 1660@4000PP		B-34823	KM 05/23/23		Soil	1	1	608\808	05/17 13:51
2G176278.	PEST WS	CmeS8Do				Soil	1	1	8082	05/17 14:42
2G176279.	TEST	CmeS8				Soil	1	1	8082	05/17 14:54
2G176280.	TEST	CmeS8				Soil	1	1	8082	05/17 15:[illegible]
2G176281.	ICV	Cme	V-395704	KM 05/23/23		Soil	1	1	8082	05/17 16:57

Anc	Area Not Checked	Ep	Extraction Performed Past Hold	Co	Warning Possible Carry Over
An	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Eto	Tcln/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for anh
B8m	Blank 8000 series missing	Etp	Tcln Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evm	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Hn	Sample Analyzed outside of hold time	R16 R26	Rnd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rnd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Pmb with calmd csv for init calibration chek rls	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a samol	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

1-1-2G178030

Instrument: GC_2 Year: 2023
Analyst: AH/PR/KM

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
2G178030.	CAL 1660@1000PP		OK,V-395695	KM 06/26/23		Soil	0.5	1	608\808	06/25 10:03
2G178031.	SMB108897		OK	KM 06/26/23		Soil	1	1	8082	06/25 10:22
2G178032.	SMB108897(MS)		OK SMB108897	KM 06/26/23		Soil	1	1	8082	06/25 10:34
2G178033.	AD38584-024(MS)		RR	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 11:24
2G178034.	AD38584-024(MSD)		RR	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 11:35
2G178035.	AD38584-024		RR	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 11:47
2G178036.	AD38584-026		RR	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 11:59
2G178037.	AD38584-028		RR	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 12:11
2G178038.	AD38584-036		RR	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 12:22
2G178039.	AD38584-038		RR	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 12:34
2G178040.	AD38584-040		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 12:46
2G178041.	AD38584-042		RR	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 12:58
2G178042.	AD38584-044		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 13:09
2G178043.	AD38584-046		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 13:21
2G178044.	AD38590-001		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 13:33
2G178045.	AD38590-003		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 13:45
2G178046.	AD38590-005		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 13:56
2G178047.	AD38590-007		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 14:08
2G178048.	AD38590-009		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 14:20
2G178049.	AD38590-011		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 14:32
2G178050.	AD38590-013		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 14:43
2G178051.	CAL 1660@1000PP		OK	KM 06/26/23		Soil	0.5	1	608\808	06/25 14:55
2G178052.	CAL 1660@1000PP		OK	KM 06/26/23		Soil	0.5	1	608\808	06/25 15:07
2G178053.	AD38590-015		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 15:19
2G178054.	AD38590-017		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 15:30
2G178055.	AD38590-019		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 15:42
2G178056.	AD38590-021		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	08/25 15:54
2G178057.	SMB108891		OK	KM 06/26/23		Soil	1	1	8082	06/25 16:06
2G178058.	SMB108891(MS)		OK SMB108891	KM 06/26/23		Soil	1	1	8082	06/25 16:18
2G178059.	AD38582-001(MS)		OK SMB108891	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 16:29
2G178060.	AD38582-001(MSD)		OK SMB108891	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 16:41
2G178061.	AD38582-001		OK SMB108891	KM 06/26/23	PCB-8082	Soil	1	1	8082	08/25 16:53
2G178062.	AD38582-002		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 17:05
2G178063.	AD38582-003		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 17:16
2G178064.	AD38582-004		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 17:28
2G178065.	AD38584-006		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 17:40
2G178066.	AD38584-008		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 17:52
2G178067.	AD38584-010		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 18:03
2G178068.	AD38584-012		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 18:15
2G178069.	AD38584-014		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 18:27
2G178070.	AD38584-016		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 18:39
2G178071.	AD38633-084		RR	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 18:51
2G178072.	AD38633-079		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 19:02
2G178073.	CAL 1660@1000PP		OK	KM 06/26/23		Soil	0.5	1	608\808	06/25 19:14
2G178074.	CAL 1660@1000PP		OK	KM 06/26/23		Soil	0.5	1	608\808	06/25 19:26
2G178075.	AD38633-074		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 19:38
2G178076.	AD38633-069		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 19:49
2G178077.	AD38675-003		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 20:01
2G178078.	AD38633-064		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 20:13
2G178079.	AD38633-059		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 20:25
2G178080.	AD38633-054		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 20:36
2G178081.	AD38633-049		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 20:48
2G178082.	AD38633-044		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 21:00
2G178083.	AD38633-039		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 21:12
2G178084.	AD38633-034		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 21:23
2G178085.	AD38633-014		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 21:35

Anc	Area Not Checked	Fo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
An	Area Out	Fsm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Fto	Tclp/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for eph
B8m	Blank 8000 series missing	Flo	Tclp Extraction Performed Outside of Hold	FvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Fv	Eval Time Exceeded	Fvnc	Eval Mix Not Checked
C1B	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Fvm	Eval Mix missing drlt or endrin
C1B	Calibration Column 1 Out (8000 Series)	Hn	Sample Analyzed outside of hold time	R1B R2B	Rpd Out on MsMsd (col1 and or col2) 600 series
C2B	Calibration Column 2 Out (600 Series)	I1B I2B	Initial cal 600 series failed Column 1 and or 2	R1B R2B	Rpd Out on MsMsd (col1 and or col2) 8000 series
C2B	Calibration Column 2 Out (8000 Series)	I1B I2B	Initial cal 8000 series failed Column 1 and or 2	Rn	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmpt csv for init calibration chek rfs	S6	600 series surrogate out
Cma	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6,Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

1-1-2G178086

Instrument: GC_2 Year: 2023
Analyst: AH/PR/KM

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
2G178086.	AD38633-009		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 21:47
2G178087.	AD38633-004		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 21:59
2G178088.	AD38586-002		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 22:11
2G178089.	AD38586-001		OK SMB108890	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 22:22
2G178090.	AD38586-008(MSD:		OK SMB108890	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 22:34
2G178091.	AD38586-007(MS:A		OK SMB108890	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 22:46
2G178092.	SMB108890(MS)		OK SMB108890	KM 06/26/23		Soil	1	1	8082	06/25 22:58
2G178093.	AD38633-029		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 23:10
2G178094.	SMB108890		OK	KM 06/26/23		Soil	1	1	8082	06/25 23:21
2G178095.	CAL 1660@1000PP		OK	KM 06/26/23		Soil	0.5	1	608\808	06/25 23:33
2G178096.	CAL 1660@1000PP		OK	KM 06/26/23		Soil	0.5	1	608\808	06/25 23:45
2G178097.	AD38633-024		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/25 23:57
2G178098.	AD38633-019		OK	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/26 00:08
2G178099.	AD38618-001		RR	KM 06/26/23	PCB-8082	Soil	1	1	8082	06/26 00:20
2G178100.	AD38675-004(2X)		OK	KM 06/26/23	PCB-8082	Soil	2	2	8082	06/26 00:32
2G178101.	AD38675-001(2X)		OK	KM 06/26/23	PCB-8082	Soil	2	2	8082	06/26 00:44
2G178102.	AD3867-005(2X)		RR	KM 06/26/23		Soil	2	2	8082	06/26 00:55
2G178103.	CAL 1660@1000PP		OK	KM 06/26/23		Soil	0.5	1	608\808	06/26 01:07
2G178104.	CAL 1660@1000PP		OK	KM 06/26/23		Soil	0.5	1	608\808	06/26 01:19

Anc	Area Not Checked	Fo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Fsm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Fto	Tclp/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for enh
B8m	Blank 8000 series missing	Fto	Tclp Extraction Performed Outside of Hold	FvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Fv	Eval Time Exceeded	Fvnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Fvrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Ddft
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmtd csv for int calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6,Sb6	Acid and or BN Surrogate Out (600 series)

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-380077

Prepared By: Hamid, Akmal | Department: Organics | ApprovedBy: akmal
Description: BNA-Pest Mix(Danger) | BatchNumber: | ApproveDate: 09/15/22
Prep Date: 9/15/2022 | Concentration: 5000 ppm | Checked: Yes
Expiration Date: 9/15/2023 | Final Volume: 10 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14187	4,4'-DDD	.05 g	NEAT neat	5000 ppm
13106	4,4' -DDE	.05 g	NEAT neat	5000 ppm
12842	4,4'-DDT	.05 g	NEAT neat	5000 ppm
14765	dichloromethane	10 ml	neat neat	

Veritech Lot Number: V-384611

Prepared By: Hamid, Akmal | Department: Organics | ApprovedBy: akmal
Description: PEST/PCB GC LAB SURR (DANGER) | BatchNumber: | ApproveDate: 11/28/22
Prep Date: 11/28/2022 | Concentration: 200 ppm | Checked: Yes
Expiration Date: 11/28/2023 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14846	Decachlorobiphenyl	20 mg	NEAT neat	200 ppm
14847	2,4,5,6-Tetrachloro-m-xylene	20 mg	NEAT neat	200 ppm
14910	acetone	100 ml	neat neat	

Veritech Lot Number: V-387894

Prepared By: Hamid, Akmal | Department: Organics | ApprovedBy: akmal
Description: PEST MIX STD (DANGER) | BatchNumber: | ApproveDate: 01/18/23
Prep Date: 1/18/2023 | Concentration: 100 ppb | Checked: Yes
Expiration Date: 7/18/2023 | Final Volume: 10 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
v-380077	BNA-Pest Mix(Danger)	2 ul	5000 ppm	100 ppb
14995	n-hexane	9998 ul	neat neat	neat neat

Veritech Lot Number: V-395678

Prepared By: Hamid, Akmal | Department: OrgPrep | ApprovedBy: akmal
Description: PCB SPIKE (DANGER) | BatchNumber: | ApproveDate: 05/18/23
Prep Date: 5/17/2023 | Concentration: 100 ppm | Checked: Yes
Expiration Date: 11/17/2023 | Final Volume: 50 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14965	Aroclor 1016	5 ml	1000 ppm	100 ppm
14946	Aroclor 1260	5 ml	1000 ppm	100 ppm
15190	ACETONE	40 ml	Neat neat	

Veritech Lot Number: V-395687

Prepared By: Hamid, Akmal | Department: Organics | ApprovedBy: akmal
Description: 3268 INTER(DANGER) | BatchNumber: | ApproveDate: 05/18/23
Prep Date: 5/17/2023 | Concentration: 100 ppm | Checked: Yes
Expiration Date: 11/17/2023 | Final Volume: 1 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	750 ul	Neat neat	
V-384611	PEST/PCB GC LAB SURR (DANGER)	50 ul	200 ppm	10 ppm
14347	Aroclor 1232	100 ul	1000 ppm	100 ppm
14897	Aroclor 1268	100 ul	1000 ppm	100 ppm

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-395688

Prepared By: Hamid, Akmal
Description: 1242 INTER(DANGER)
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9950 ul	Neat neat	
V-384611	PEST/PCB GC LAB SURR (DANGER)	50 ul	200 ppm	10 ppm
14203	Aroclor 1242 STD.	100 ul	1000 ppm	100 ppm

Veritech Lot Number: V-395689

Prepared By: Hamid, Akmal
Description: 1248 INTER(DANGER)
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	850 ul	Neat neat	
V-384611	PEST/PCB GC LAB SURR (DANGER)	50 ul	200 ppm	10 ppm
14349	Aroclor 1248	100 ul	1000 ppm	100 ppm

Veritech Lot Number: V-395690

Prepared By: Hamid, Akmal
Description: 2154 INTER(DANGER)
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	750 ul	Neat neat	
V-384611	PEST/PCB GC LAB SURR (DANGER)	50 ul	200 ppm	10 ppm
14813	Aroclor 1221 Solution	100 ul	1000 ppm	100 ppm
14350	Aroclor 1254	100 ul	1000 ppm	100 ppm

Veritech Lot Number: V-395691

Prepared By: Hamid, Akmal
Description: 1262 INTER(DANGER)
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	850 ul	Neat neat	
V-384611	PEST/PCB GC LAB SURR (DANGER)	50 ul	200 ppm	10 ppm
14352	Aroclor 1262	100 ul	1000 ppm	100 ppm

Veritech Lot Number: V-395692

Prepared By: Hamid, Akmal
Description: 1660 PCB INTERMEDIATE (DANGER)
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	3750 ul	Neat neat	
14812	Aroclor 1016 Solution	500 ul	1000 pppm	100 ppm
14818	Aroclor 1260 Solution	500 ul	1000 ppm	100 ppm
V-384611	PEST/PCB GC LAB SURR (DANGER)	250 ul	200 ppm	10 ppm

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-395693

Prepared By: Hamid, Akmal
Description: CAL 1660@4000PPB
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber: B-34823
Concentration: 4000 ppb
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	48000 ul	Neat neat	
V-395692	1660 PCB INTERMEDIATE (DANGER)	2000 ul	100 ppm	4000 ppb

Veritech Lot Number: V-395694

Prepared By: Hamid, Akmal
Description: CAL 1660@2000PPB
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber: B-34823
Concentration: 2000 ppb
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	49000 ul	Neat neat	
V-395692	1660 PCB INTERMEDIATE (DANGER)	1000 ul	100 ppm	2000 ppb

Veritech Lot Number: V-395695

Prepared By: Hamid, Akmal
Description: CAL 1660@1000PPB
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber: B-34823
Concentration: 1000 ppb
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	49500 ul	Neat neat	
V-395692	1660 PCB INTERMEDIATE (DANGER)	500 ul	100 ppm	1000 ppb

Veritech Lot Number: V-395696

Prepared By: Hamid, Akmal
Description: CAL 1660@500PPB
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber: B-34823
Concentration: 500 ppb
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	49750 ul	Neat neat	
V-395692	1660 PCB INTERMEDIATE (DANGER)	250 ul	100 ppm	500 ppb

Veritech Lot Number: V-395697

Prepared By: Hamid, Akmal
Description: CAL 1660@200PPB
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber: B-34823
Concentration: 200 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-395694	CAL 1660@2000PPB	1000 ul	2000 ppb	200 ppb
15192	HEXANE	9000 ul	Neat neat	

Veritech Lot Number: V-395698

Prepared By: Hamid, Akmal
Description: CAL 1660@50PPB
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber: B-34823
Concentration: 50 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-395696	CAL 1660@500PPB	1000 ul	500 ppb	50 ppb
15192	HEXANE	9000 ul	Neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-395704

Prepared By: Hamid, Akmal
Description: ICV PCB (DANGER)
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber:
Concentration: 1000 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9895 ul	Neat neat	
V-384611	PEST/PCB GC LAB SURR (DANGER)	5 ul	200 ppm	100 ppb
V-395678	PCB SPIKE (DANGER)	100 ul	100 ppm	1000 ppb

Veritech Lot Number: V-395705

Prepared By: Hamid, Akmal
Description: CAL 3268@500PPB (DANGER)
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber:
Concentration: 500 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9950 ul	Neat neat	
V-395687	3268 INTER(DANGER)	50 ul	100 ppm	500 ppb

Veritech Lot Number: V-395716

Prepared By: Hamid, Akmal
Description: CAL 1242@500PPB (DANGER)
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber:
Concentration: 500 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9950 ul	Neat neat	
V-395688	1242 INTER(DANGER)	50 ul	100 ppm	500 ppb

Veritech Lot Number: V-395718

Prepared By: Hamid, Akmal
Description: CAL1248@500PPB (DANGER)
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber:
Concentration: 500 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9950 ul	Neat neat	
V-395689	1248 INTER(DANGER)	50 ul	100 ppm	500 ppb

Veritech Lot Number: V-395719

Prepared By: Hamid, Akmal
Description: CAL 2154@500PPB (DANGER)
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber:
Concentration: 500 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9950 ul	Neat neat	
V-395690	2154 INTER(DANGER)	50 ul	100 ppm	500 ppb

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-395720

Prepared By:	Hamid, Akmal	Department: Organics	ApprovedBy: akmal
Description:	CAL 1262@500PPB (DANGER)	BatchNumber:	ApproveDate: 05/18/23
Prep Date:	5/17/2023	Concentration: 500 ppb	Checked: Yes
Expiration Date:	11/17/2023	Final Volume: 10 ml	

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9950 ul	Neat neat	
V-395691	1262 INTER(DANGER)	50 ul	100 ppm	500 ppb

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 12842

Description
4,4'-DDT

ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Sigma-Aldrich	31041-100MG	BCBW0671	10/18/19	11/30/23	Hamid, Akmal	3	100M	NEAT	NEAT

Veritech Control/Receipt Number: 13106

Description
4,4' -DDE

ApprovedBy: akmal
ApproveDate: 03/10/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	RPN-10875-1G	9710700	03/10/20	02/28/25	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14187

Description
4,4'-DDD

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-10874-250MG	12359100	09/14/21	05/31/24	Hamid, Akmal	4	250M	NEAT	NEAT

Veritech Control/Receipt Number: 14203

Description
Aroclor 1242 STD.

ApprovedBy: Akmal
ApproveDate: 09/28/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Sigma-Aldrich	44806	LRAC9022	09/28/21	05/31/24	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 14347

Description
Aroclor 1232

ApprovedBy: akmal
ApproveDate: 12/09/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44805	LRAD0035-1	12/08/21	11/30/24	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 14349

Description
Aroclor 1248

ApprovedBy: akmal
ApproveDate: 12/09/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44807	LRAD0035-3	12/08/21	11/30/24	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 14350

Description
Aroclor 1254

ApprovedBy: akmal
ApproveDate: 12/09/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc.	Units:
Supelco	44808	LRAD0035-4	12/08/21	11/30/24	Hamid, Akmal	1	1ML	1000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14352

Description: Aroclor 1262

ApprovedBy: akmal
ApproveDate: 12/09/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44810	LRAD0035-6	12/08/21	11/30/24	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 14765

Description: dichloromethane

ApprovedBy: akmal
ApproveDate: 08/16/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco/EMD	DX0831	62161	08/02/22	08/01/27	Lopez, Jose	100	4L	neat	neat

Veritech Control/Receipt Number: 14812

Description: Aroclor 1016 Solution

ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Sigma-Aldrich	48097	LRAD2481	09/15/22	06/30/25	Hamid, Akmal	2	1ML	1000	PPPM

Veritech Control/Receipt Number: 14813

Description: Aroclor 1221 Solution

ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Sigma-Aldrich	48098	LRAD2878	09/15/22	07/31/25	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 14818

Description: Aroclor 1260 Solution

ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Sigma-Aldrich	44809	LRAD2463	09/15/22	05/31/25	Hamid, Akmal	2	1ML	1000	PPM

Veritech Control/Receipt Number: 14846

Description: Decachlorobiphenyl

ApprovedBy: akmal
ApproveDate: 09/26/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	BZ-209-10MG	13660800	09/26/22	09/30/24	Hamid, Akmal	3	10MG	NEAT	NEAT

Veritech Control/Receipt Number: 14847

Description: 2,4,5,6-Tetrachloro-m-xylene

ApprovedBy: akmal
ApproveDate: 09/26/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-10542-100MG	13555000	09/26/22	10/31/26	Hamid, Akmal	3	100M	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14897

Description: Aroclor 1268

ApprovedBy: akmal
ApproveDate: 10/18/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Restek	32410	A0186492	10/17/22	09/30/28	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 14910

Description: acetone

ApprovedBy: jean
ApproveDate: 11/04/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9254-03	21J3062001	11/01/22	09/19/24	Lopez, Jose	2	4L	neat	neat

Veritech Control/Receipt Number: 14946

Description: Aroclor 1260

ApprovedBy: jean
ApproveDate: 11/17/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	C-260S-H-10X-PAK	222051148	11/17/22	05/11/32	User, Organics	15	ml	1000	PPM

Veritech Control/Receipt Number: 14965

Description: Aroclor 1016

ApprovedBy: jean
ApproveDate: 11/30/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	C-216S-H-10X-PAK	222111334	11/30/22	11/23/32	User, Organics	15	1ml	1000	PPM

Veritech Control/Receipt Number: 14995

Description: n-hexane

ApprovedBy: akmal
ApproveDate: 12/23/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Tedia	HA1721	22090086	12/22/22	10/19/24	Lopez, Jose	48	4L	neat	neat

Veritech Control/Receipt Number: 15190

Description: ACETONE

ApprovedBy: akmal
ApproveDate: 04/11/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
TEDIA	AA1111	22070110	04/04/23	04/03/28	Longton, Rhys	60	4L	Neat	Neat

Veritech Control/Receipt Number: 15192

Description: HEXANE

ApprovedBy: akmal
ApproveDate: 04/11/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
TEDIA	HA1721	22090086	04/04/23	04/03/28	Longton, Rhys	60	4L	Neat	Neat

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-384611

Prepared By: Hamid, Akmal
Description: PEST/PCB GC LAB SURR (DANGER)
Prep Date: 11/28/2022
Expiration Date: 11/28/2023
Department: Organics
BatchNumber:
Concentration: 200 ppm
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 11/28/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14846	Decachlorobiphenyl	20 mg	NEAT neat	200 ppm
14847	2,4,5,6-Tetrachloro-m-xylene	20 mg	NEAT neat	200 ppm
14910	acetone	100 ml	neat neat	

Veritech Lot Number: V-395678

Prepared By: Hamid, Akmal
Description: PCB SPIKE (DANGER)
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: OrgPrep
BatchNumber:
Concentration: 100 ppm
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14965	Aroclor 1016	5 ml	1000 ppm	100 ppm
14946	Aroclor 1260	5 ml	1000 ppm	100 ppm
15190	ACETONE	40 ml	Neat neat	

Veritech Lot Number: V-396329

Prepared By: User, Organics
Description: PURIFIED (BAKED) OTTAWA SAND
Prep Date: 5/30/2023
Expiration Date: 11/26/2023
Department: Organics
BatchNumber:
Concentration: NEAT neat
Final Volume: 3000 g
ApprovedBy: akmal
ApproveDate: 06/01/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15135	San Ottawa	3000 g	neat neat	neat neat

Veritech Lot Number: V-396477

Prepared By: McCracken, Kaitlyn
Description: PEST/PCB PREP SURR (danger)
Prep Date: 5/31/2023
Expiration Date: 11/28/2023
Department: Organics
BatchNumber:
Concentration: 10 ppm
Final Volume: 500 ml
ApprovedBy: akmal
ApproveDate: 06/01/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-384611	PEST/PCB GC LAB SURR (DANGER)	25 ml	200 ppm	10 ppm
15098	ACETONE	475 ml	neat neat	

Veritech Lot Number: V-397751

Prepared By: User, Organics
Description: BAKED sodium sulphate
Prep Date: 6/20/2023
Expiration Date: 7/22/2023
Department: Organics
BatchNumber:
Concentration: 4000 g
Final Volume: 4000 g
ApprovedBy: akmal
ApproveDate: 06/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15342	sodium sulfate	4000 g	neat neat	neat neat

Veritech Lot Number: V-397758

Prepared By: User, Organics
Description: 1:1 ACETONE /HEXANE MIX
Prep Date: 6/20/2023
Expiration Date: 12/8/2023
Department: Organics
BatchNumber:
Concentration: 1:1 ml
Final Volume: 10000 ml
ApprovedBy: akmal
ApproveDate: 06/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15356	Acetone	500 ml	Neat neat	
15286	n-hexanes	500 ml	neat neat	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14846

Description: Decachlorobiphenyl

ApprovedBy: akmal
ApproveDate: 09/26/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	BZ-209-10MG	13660800	09/26/22	09/30/24	Hamid, Akmal	3	10MG	NEAT	NEAT

Veritech Control/Receipt Number: 14847

Description: 2,4,5,6-Tetrachloro-m-xylene

ApprovedBy: akmal
ApproveDate: 09/26/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-10542-100MG	13555000	09/26/22	10/31/26	Hamid, Akmal	3	100M	NEAT	NEAT

Veritech Control/Receipt Number: 14910

Description: acetone

ApprovedBy: jean
ApproveDate: 11/04/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9254-03	21J3062001	11/01/22	09/19/24	Lopez, Jose	2	4L	neat	neat

Veritech Control/Receipt Number: 14946

Description: Aroclor 1260

ApprovedBy: jean
ApproveDate: 11/17/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	C-260S-H-10X-PAK	222051148	11/17/22	05/11/32	User, Organics	15	ml	1000	PPM

Veritech Control/Receipt Number: 14965

Description: Aroclor 1016

ApprovedBy: jean
ApproveDate: 11/30/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	C-216S-H-10X-PAK	222111334	11/30/22	11/23/32	User, Organics	15	1ml	1000	PPM

Veritech Control/Receipt Number: 15098

Description: ACETONE

ApprovedBy: akmal
ApproveDate: 02/15/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Tedia	AA1111	22070110	02/09/23	07/23/24	Lopez, Jose	48	4L	neat	neat

Veritech Control/Receipt Number: 15135

Description: San Ottawa

ApprovedBy: akmal
ApproveDate: 03/03/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Lab Sales Ervice	LS-2001100	122822	02/27/23	02/26/28	Lopez, Jose	4	6.6LB	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15190

Description: ACETONE

ApprovedBy: akmal
ApproveDate: 04/11/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
TEDIA	AA1111	22070110	04/04/23	04/03/28	Longton, Rhys	60	4L	Neat	Neat

Veritech Control/Receipt Number: 15286

Description: n-hexanes

ApprovedBy: akmal
ApproveDate: 05/23/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Tedia	HA1721-001	22090086	05/18/23	10/19/24	Lopez, Jose	48	4L	neat	neat

Veritech Control/Receipt Number: 15342

Description: sodium sulfate

ApprovedBy: akmal
ApproveDate: 06/07/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Allan Corp.	6399	208404	06/05/23	06/04/28	Lopez, Jose	6	100L	neat	neat

Veritech Control/Receipt Number: 15356

Description: Acetone

ApprovedBy: akmal
ApproveDate: 06/12/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
TEDIA	AA1111	22070110	06/09/23	07/23/24	Cajuste, Pierre	80	4 L	Neat	Neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15245

Description
Sulfuric Acid

ApprovedBy: jean
ApproveDate: 05/05/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J. T .B AKER	9684-03	22H0962009	04/28/23	06/27/27	Cajuste, Pierre	18	2.5 L	Neat	Neat

Veritech Control/Receipt Number: 15286

Description
n-hexanes

ApprovedBy: akmal
ApproveDate: 05/23/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Tedia	HA1721-001	22090086	05/18/23	10/19/24	Lopez, Jose	48	4L	neat	neat

Veritech Control/Receipt Number: 15356

Description
Acetone

ApprovedBy: akmal
ApproveDate: 06/12/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
TEDIA	AA1111	22070110	06/09/23	07/23/24	Cajuste, Pierre	80	4 L	Neat	Neat

Veritech Control/Receipt Number: 15366

Description
Copper,99.5%, Shot, 20Mesh

ApprovedBy: akmal
ApproveDate: 06/16/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
GFS	6862	24002304	06/14/23	06/14/30	Hamid, Akmal	1	10 K	Neat	Neat

GC Pesticide Data

GC Pesticide Data
QC Summary

FORM2

Surrogate Recovery

Method: EPA 8081B

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column2 S2 Recov	Column1 S3 Recov	Column2 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
3G149077.D	SMB108889	S	06/26/23 04:47	1		110	104	112	119		
6G177651.D	AD38586-001	S	06/26/23 06:19	1		101	97	111	139		
6G177650.D	AD38586-002	S	06/26/23 06:08	1		113	108	190 *	147		
3G149078.D	AD38586-007(MS:AD38	S	06/26/23 04:59	1		114	108	112	156 *		
3G149079.D	AD38586-008(MSD:AD3	S	06/26/23 05:10	1		126	120	114	191 *		
3G149082.D	SMB108889(MS)	S	06/26/23 05:46	1		115	119	113	118		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8081B

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=TCMX-Surrogate	100	27-138
S2=TCMX-Surrogate	100	27-138
S3=DCB-Surrogate	100	21-154
S4=DCB-Surrogate	100	21-154

Form3
Recovery Data Laboratory Limits
QC Batch: SMB108889

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G149082.D	SMB108889(MS)	6/26/2023 5:46:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	1	86.22	0	100	86	32	126
gamma-BHC	1	90.93	0	100	91	30	137
beta-BHC	1	87.78	0	100	88	18	149
Heptachlor	1	88.38	0	100	88	29	142
delta-BHC	1	86.6	0	100	87	19	145
Aldrin	1	88.36	0	100	88	36	132
Heptachlor Epoxide	1	90.6	0	100	91	36	154
y-chlordane	1	78.14	0	100	78	35	152
a-chlordane	1	95.58	0	100	96	35	135
Endosulfan I	1	92.33	0	100	92	21	151
p,p'-DDE	1	101.49	0	100	101	28	148
Dieldrin	1	88.45	0	100	88	28	154
Endrin	1	113.66	0	100	114	29	164
p,p'-DDD	1	93.46	0	100	93	14	180
Endosulfan II	1	91.94	0	100	92	26	143
p,p'-DDT	1	111.91	0	100	112	10	169
Endrin Aldehyde	1	73.49	0	100	73	10	169
Endosulfan Sulfate	1	88.4	0	100	88	27	144
Methoxychlor	1	97.49	0	100	97	10	182
Endrin Ketone	1	95.69	0	100	96	29	140

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form

Form3
Recovery Data Laboratory Limits
QC Batch: SMB108889

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G149078.D	AD38586-007(MS:AD38586-00	6/26/2023 4:59:00 AM
Non Spike(If applicable):	6G177651.D	AD38586-001	6/26/2023 6:19:00 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	1	80.3	0	100	80	32	136
gamma-BHC	1	80.63	0	100	81	30	137
beta-BHC	1	80.64	0	100	81	18	149
Heptachlor	1	88.85	0	100	89	29	142
delta-BHC	1	77.47	0	100	77	19	145
Aldrin	1	84.36	0	100	84	36	132
Heptachlor Epoxide	1	90.06	0	100	90	36	154
y-chlordane	1	81.29	0	100	81	35	152
a-chlordane	1	96.6	0	100	97	35	135
Endosulfan I	1	90.78	0	100	91	21	151
p,p'-DDE	1	92.96	0	100	93	28	148
Dieldrin	1	95.4	4.87	100	91	28	154
Endrin	1	99.66	0	100	100	29	164
p,p'-DDD	1	84.7	7.5	100	77	14	180
Endosulfan II	1	83.31	0	100	83	26	143
p,p'-DDT	1	129.13	42.35	100	87	10	169
Endrin Aldehyde	1	248.58	0	100	249 *	10	169
Endosulfan Sulfate	1	76.57	0	100	77	27	144
Methoxychlor	1	76.48	0	100	76	10	182
Endrin Ketone	1	112.6	0	100	113	29	140

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G149079.D	AD38586-008(MSD:AD38586-0	6/26/2023 5:10:00 AM
Non Spike(If applicable):	6G177651.D	AD38586-001	6/26/2023 6:19:00 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	1	90.15	0	100	90	32	136
gamma-BHC	1	92.93	0	100	93	30	137
beta-BHC	1	92.34	0	100	92	18	149
Heptachlor	1	104.98	0	100	105	29	142
delta-BHC	1	90.46	0	100	90	19	145
Aldrin	1	94.44	0	100	94	36	132
Heptachlor Epoxide	1	103.67	0	100	104	36	154
y-chlordane	1	94.4	0	100	94	35	152
a-chlordane	1	112.36	0	100	112	35	135
Endosulfan I	1	106.36	0	100	106	21	151
p,p'-DDE	1	108.02	0	100	108	28	148
Dieldrin	1	114.07	4.87	100	109	28	154
Endrin	1	121.53	0	100	122	29	164
p,p'-DDD	1	101.92	7.5	100	94	14	180
Endosulfan II	1	102.58	0	100	103	26	143
p,p'-DDT	1	156.34	42.35	100	114	10	169
Endrin Aldehyde	1	287.49	0	100	287 *	10	169
Endosulfan Sulfate	1	91.83	0	100	92	27	144
Methoxychlor	1	103.74	0	100	104	10	182
Endrin Ketone	1	120.4	0	100	120	29	140

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form

Form3
RPD Data Laboratory Limits
QC Batch: SMB108889

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G149079.D	AD38586-008(MSD:AD38586-0	6/26/2023 5:10:00 AM
Duplicate(If applicable):	3G149078.D	AD38586-007(MS:AD38586-00	6/26/2023 4:59:00 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
alpha-BHC	1	90.15	80.3	12	59
gamma-BHC	1	92.93	80.63	14	59
beta-BHC	1	92.34	80.64	14	72
Heptachlor	1	104.98	88.85	17	57
delta-BHC	1	90.46	77.47	15	63
Aldrin	1	94.44	84.36	11	57
Heptachlor Epoxide	1	103.67	90.06	14	56
y-chlordane	1	94.4	81.29	15	56
a-chlordane	1	112.36	96.6	15	57
Endosulfan I	1	106.36	90.78	16	62
p,p'-DDE	1	108.02	92.96	15	58
Dieldrin	1	114.07	95.4	18	56
Endrin	1	121.53	99.66	20	60
p,p'-DDD	1	101.92	84.7	18	60
Endosulfan II	1	102.58	83.31	21	62
p,p'-DDT	1	156.34	129.13	19	65
Endrin Aldehyde	1	287.49	248.58	15	75
Endosulfan Sulfate	1	91.83	76.57	18	63
Methoxychlor	1	103.74	76.48	30	52
Endrin Ketone	1	120.4	112.6	6.7	62

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB108889
Blank Data File: 3G149077.D
Matrix: Soil

Blank Analysis Date: 06/26/23 04:47
Blank Extraction Date: 06/23/23
(If Applicable)
Method: EPA 8081B

Sample Number	Data File	Analysis Date
AD38586-001	6G177651.D	06/26/23 06:19
AD38586-002	6G177650.D	06/26/23 06:08
AD38586-007(MS:	3G149078.D	06/26/23 04:59
AD38586-008(MSD	3G149079.D	06/26/23 05:10
SMB108889(MS)	3G149082.D	06/26/23 05:46

Form 5

Method: EPA 8081B

Instrument: GC_3 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
3G148103.D	CAL EVAL	06/02/23 15:27	Soil					
3G148104.D	CAL EVAL	06/02/23 15:39	Soil					
3G148105.D	PEST@2PPB	06/02/23 15:50	Soil					
3G148106.D	CAL PEST@2PPB	06/02/23 16:02	Soil	3G14810	8.5825	0	9.0517	0
3G148107.D	CAL PEST@10PPB	06/02/23 16:14	Soil	3G14810	8.5816	0.0105	9.0517	0
3G148108.D	PEST@10PPB	06/02/23 16:26	Soil	3G14810	8.5817	0.0093	9.0525	0.0088
3G148109.D	CAL PEST@50PPB	06/02/23 16:37	Soil	3G14810	8.5808	0.0198	9.0510	0.0077
3G148110.D	CAL PEST@100PPB	06/02/23 16:49	Soil	3G14810	8.5805	0.0233	9.0531	0.0155
3G148111.D	CAL PEST@200PPB	06/02/23 17:01	Soil	3G14810	8.5810	0.0175	9.0514	0.0033
3G148112.D	CAL PEST@400PPB	06/02/23 17:13	Soil	3G14810	8.5798	0.0315	9.0508	0.0099
3G148113.D	CAL CHLORO@100PP	06/02/23 17:24	Soil	3G14810	8.5805	0.0233	9.0525	0.0088
3G148114.D	TOX@50PPB	06/02/23 17:36	Soil	3G14810	0.0000	200 *	0.0000	200 *
3G148115.D	TOX@200PPB	06/02/23 17:48	Soil	3G14810	0.0000	200 *	0.0000	200 *
3G148116.D	TOX@500PPB	06/02/23 18:00	Soil	3G14810	0.0000	200 *	0.0000	200 *
3G148117.D	TOX@1000PPB	06/02/23 18:12	Soil	3G14810	0.0000	200 *	0.0000	200 *
3G148118.D	TOX@2000PPB	06/02/23 18:23	Soil	3G14810	0.0000	200 *	0.0000	200 *
3G148119.D	TOX@4000PPB	06/02/23 18:35	Soil	3G14810	0.0000	200 *	0.0000	200 *
3G148120.D	TOX ICV	06/02/23 18:47	Soil	3G14810	8.5756	0.0804	9.0483	0.0376
3G148121.D	ICV	06/02/23 18:59	Soil	3G14810	8.5772	0.0618	9.0493	0.0265
3G148122.D	ICV	06/02/23 19:10	Soil	3G14810	8.5772	0.0618	9.0496	0.0232

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8081B

Instrument: GC_6 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
6G177184.D	EVAL	06/14/23 10:13	Soil					
6G177185.D	CAL EVAL	06/14/23 10:25	Soil					
6G177186.D	CAL PEST@100PPB	06/14/23 10:39	Soil	6G17718	8.4165	0.0666	9.1076	0.0351
6G177187.D	CAL PEST@10PPB	06/14/23 10:50	Soil	6G17718	8.4121	0.0143	9.1048	0.0044
6G177188.D	CAL PEST@2PPB	06/14/23 11:02	Soil	6G17718	8.4109	0	9.1044	0
6G177189.D	CAL PEST@400PPB	06/14/23 11:14	Soil	6G17718	8.4131	0.0262	9.1069	0.0275
6G177190.D	CAL PEST@200PPB	06/14/23 11:26	Soil	6G17718	8.4136	0.0321	9.1054	0.011
6G177191.D	CAL PEST@50PPB	06/14/23 11:37	Soil	6G17718	8.4117	0.0095	9.1047	0.0033
6G177192.D	CAL CHLORO@100PP	06/14/23 11:49	Soil	6G17718	8.4128	0.0226	9.1051	0.0077
6G177193.D	TOX@4000PPB	06/14/23 12:01	Soil	6G17718	8.4119	0.0119	9.1060	0.0176
6G177194.D	TOX@200PPB	06/14/23 12:12	Soil	6G17718	8.4112	0.0036	9.1048	0.0044
6G177195.D	TOX@1000PPB	06/14/23 12:24	Soil	6G17718	8.4117	0.0095	9.1048	0.0044
6G177196.D	TOX@500PPB	06/14/23 12:36	Soil	6G17718	8.4118	0.0107	9.1061	0.0187
6G177197.D	TOX@2000PPB	06/14/23 12:48	Soil	6G17718	8.4110	0.0012	9.1059	0.0165
6G177198.D	TOX@50PPB	06/14/23 12:59	Soil	6G17718	8.4108	0	9.1030	0.0154
6G177199.D	TOX ICV	06/14/23 13:11	Soil	6G17719	8.4100	0.0095	9.1034	0.0044
6G177200.D	ICV	06/14/23 13:23	Soil	6G17719	8.4110	0.0024	9.1044	0.0154
6G177201.D	AD38482-003	06/14/23 15:48	Aqueous	6G17719	8.4296	0.2233	9.1171	0.1548
6G177202.D	AD38482-005	06/14/23 16:00	Aqueous	6G17719	8.4154	0.0547	9.1064	0.0373
6G177203.D	EF-1-V-396484(06/09/23	06/14/23 16:11	Aqueous	6G17719	8.4116	0.0095	9.1045	0.0165
6G177204.D	EF-1-V-396484(06/07/23	06/14/23 16:23	Aqueous	6G17719	8.4110	0.0024	9.1043	0.0143
6G177205.D	CAL PEST@100PPB	06/14/23 17:02	Soil	6G17719	8.4248	0.1663	9.1121	0.0999

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8081B
Instrument: GC_6

Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
6G177631.D	CAL EVAL	06/26/23 02:01	Aqueous					
6G177632.D	CAL EVAL	06/26/23 02:13	Aqueous					
6G177633.D	CAL PEST@100PPB	06/26/23 02:25	Aqueous	6G17763	8.4036	0	9.1030	0
6G177633A.	CAL PEST@100PPB	06/26/23 02:36	Aqueous	6G17763	8.4023	0.0155	9.1020	0.011
6G177634.D	CAL PEST@200PPB	06/26/23 02:48	Aqueous	6G17763	8.4022	0.0167	9.1009	0.0231
6G177634A.	CAL PEST@200PPB	06/26/23 03:00	Aqueous	6G17763	8.4007	0.0345	9.1004	0.0286
6G177635.D	AD38633-064	06/26/23 03:12	Soil	6G17763	8.4018	0.0214	9.1029	0.0011
6G177636.D	AD38633-059	06/26/23 03:23	Soil	6G17763	8.4008	0.0333	9.1010	0.022
6G177637.D	AD38633-054	06/26/23 03:35	Soil	6G17763	8.4004	0.0381	9.1018	0.0132
6G177638.D	AD38633-049	06/26/23 03:47	Soil	6G17763	8.4016	0.0238	9.1016	0.0154
6G177639.D	AD38633-044	06/26/23 03:59	Soil	6G17763	8.4016	0.0238	9.1034	0.0044
6G177640.D	AD38633-039	06/26/23 04:10	Soil	6G17763	8.3879	0.187	9.0880	0.1649
6G177641.D	AD38633-034	06/26/23 04:22	Soil	6G17763	8.4017	0.0226	9.1027	0.0033
6G177642.D	AD38633-029	06/26/23 04:34	Soil	6G17763	8.4009	0.0321	9.1012	0.0198
6G177643.D	AD38633-019	06/26/23 04:45	Soil	6G17763	8.4006	0.0357	9.1013	0.0187
6G177644.D	AD38633-024	06/26/23 04:57	Soil	6G17763	8.4003	0.0393	9.1000	0.033
6G177645.D	AD38582-001	06/26/23 05:09	Soil	6G17763	8.4012	0.0286	9.1021	0.0099
6G177646.D	AD38633-014	06/26/23 05:21	Soil	6G17763	8.4016	0.0238	9.1029	0.0011
6G177647.D	AD38633-009	06/26/23 05:32	Soil	6G17763	8.4012	0.0286	9.1027	0.0033
6G177648.D	AD38633-004	06/26/23 05:44	Soil	6G17763	8.4008	0.0333	9.1015	0.0165
6G177649.D	AD38618-001	06/26/23 05:56	Soil	6G17763	8.4025	0.0131	9.1029	0.0011
6G177650.D	AD38586-002	06/26/23 06:08	Soil	6G17763	8.4015	0.025	9.1045	0.0165
6G177651.D	AD38586-001	06/26/23 06:19	Soil	6G17763	8.4034	0.0024	9.1043	0.0143
6G177652.D	AD38582-004	06/26/23 06:31	Soil	6G17763	8.4036	0	9.1039	0.0099
6G177653.D	AD38582-003	06/26/23 06:43	Soil	6G17763	8.4022	0.0167	9.1026	0.0044
6G177654.D	AD38582-002	06/26/23 06:55	Soil	6G17763	8.4027	0.0107	9.1039	0.0099
6G177655.D	CAL EVAL	06/26/23 07:28	Aqueous					
6G177656.D	CAL PEST@100PPB	06/26/23 07:45	Aqueous	6G17763	8.4113	0.0916	9.1081	0.056
6G177657.D	SMB108901(MS)	06/26/23 08:22	Soil	6G17765	8.4175	0.0737	9.1119	0.0417
6G177658.D	AD38688-001(MSD)	06/26/23 08:34	Soil	6G17765	8.4057	0.0666	9.1039	0.0461
6G177659.D	AD38688-001(MS)	06/26/23 08:46	Soil	6G17765	8.4030	0.0987	9.1030	0.056
6G177660.D	AD38582-001(MSD)	06/26/23 08:58	Soil	6G17765	8.4019	0.1118	9.1022	0.0648
6G177661.D	AD38688-001	06/26/23 09:09	Soil	6G17765	8.4009	0.1237	9.1012	0.0758
6G177662.D	SMB108901	06/26/23 09:21	Soil	6G17765	8.4022	0.1082	9.1024	0.0626
6G177663.D	AD38614-004	06/26/23 09:33	Soil	6G17765	8.4015	0.1166	9.1030	0.056
6G177664.D	AD38614-003	06/26/23 09:45	Soil	6G17765	8.4006	0.1273	9.1009	0.0791
6G177665.D	AD38674-002	06/26/23 09:56	Soil	6G17765	8.4005	0.1285	9.1021	0.0659
6G177666.D	38634-002	06/26/23 10:08	Soil	6G17765	8.3995	0.1404	9.1010	0.078
6G177667.D	38634-001	06/26/23 10:20	Soil	6G17765	8.4002	0.1321	9.1003	0.0857
6G177668.D	AD38691-013	06/26/23 10:31	Soil	6G17765	8.4019	0.1118	9.1025	0.0615
6G177669.D	AD38691-007	06/26/23 10:43	Soil	6G17765	8.4037	0.0904	9.1045	0.0395
6G177670.D	AD38582-003(2X)	06/26/23 12:05	Soil	6G17765	8.4189	0.0903	9.1129	0.0527
6G177671.D	AD38691-007(5X)	06/26/23 12:16	Soil	6G17765	8.4073	0.0476	9.1066	0.0165
6G177672.D	38582-001	06/26/23 12:28	Soil	6G17765	8.4052	0.0725	9.1052	0.0318
6G177673.D	38582-002	06/26/23 12:40	Soil	6G17765	8.4061	0.0618	9.1060	0.0231
6G177674.D	38582-004	06/26/23 12:52	Soil	6G17765	8.4051	0.0737	9.1051	0.0329
6G177675.D	38582-003	06/26/23 13:03	Soil	6G17765	8.4034	0.094	9.1048	0.0362
6G177676.D	CAL PEST@100PPB	06/26/23 13:38	Aqueous	6G17765	8.4177	0.0761	9.1130	0.0538

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8081B

Instrument: GC_3 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
3G149070.D	CAL EVAL	06/26/23 03:01	Soil					
3G149071.D	CAL EVAL	06/26/23 03:13	Soil					
3G149072.D	CAL PEST@100PPB	06/26/23 03:25	Soil	3G14907	8.5361	0	9.0181	0
3G149072A.	CAL PEST@100PPB	06/26/23 03:36	Soil	3G14907	8.5341	0.0234	9.0167	0.0155
3G149073.D	200PPB	06/26/23 03:48	Soil	3G14907	8.5335	0.0305	9.0166	0.0166
3G149073A.	200PPB	06/26/23 04:00	Soil	3G14907	8.5325	0.0422	9.0161	0.0222
3G149074.D	AD38566-002(MS)	06/26/23 04:12	Aqueous	3G14907	8.5326	0.041	9.0160	0.0233
3G149075.D	AD38566-002(MSD)	06/26/23 04:23	Aqueous	3G14907	8.5330	0.0363	9.0165	0.0177
3G149076.D	AD38566-002(T)	06/26/23 04:35	Aqueous	3G14907	8.5320	0.0481	9.0154	0.0299
3G149077.D	SMB108889	06/26/23 04:47	Soil	3G14907	8.5320	0.0481	9.0152	0.0322
3G149078.D	AD38586-007(MS:AD38	06/26/23 04:59	Soil	3G14907	8.5317	0.0516	9.0176	0.0055
3G149079.D	AD38586-008(MSD:AD3	06/26/23 05:10	Soil	3G14907	8.5323	0.0445	9.0174	0.0078
3G149080.D	AD38582-001(MS)	06/26/23 05:22	Soil	3G14907	8.5325	0.0422	9.0164	0.0188
3G149081.D	SMB108877(MS)	06/26/23 05:34	Soil	3G14907	8.5324	0.0434	9.0160	0.0233
3G149082.D	SMB108889(MS)	06/26/23 05:46	Soil	3G14907	8.5322	0.0457	9.0157	0.0266
3G149083.D	AD38633-069	06/26/23 05:57	Soil	3G14907	8.5324	0.0434	9.0143	0.0421
3G149084.D	AD38633-074	06/26/23 06:09	Soil	3G14907	8.5310	0.0598	9.0164	0.0188
3G149085.D	AD38633-079	06/26/23 06:21	Soil	3G14907	8.5333	0.0328	9.0161	0.0222
3G149086.D	AD38633-084	06/26/23 06:33	Soil	3G14907	8.5324	0.0434	9.0154	0.0299
3G149087.D	AD38566-004(T)	06/26/23 06:44	Aqueous	3G14907	8.5321	0.0469	9.0156	0.0277
3G149088.D	AD38566-010(T)	06/26/23 06:56	Aqueous	3G14907	8.5336	0.0293	9.0166	0.0166
3G149089.D	AD38566-012(T)	06/26/23 07:08	Aqueous	3G14907	8.5327	0.0398	9.0153	0.0311
3G149090.D	EF-1-V-397759(06/21/23	06/26/23 07:20	Aqueous	3G14907	8.5333	0.0328	9.0157	0.0266
3G149091.D	EF-1-V-397210(06/16/23	06/26/23 07:32	Aqueous	3G14907	8.5324	0.0434	9.0151	0.0333
3G149092.D	AD38566-006(T)	06/26/23 07:43	Aqueous	3G14907	8.5318	0.0504	9.0151	0.0333
3G149093.D	AD38566-008(T)	06/26/23 07:55	Aqueous	3G14907	8.5326	0.041	9.0151	0.0333
3G149094.D	CAL PEST@100PPB	06/26/23 08:27	Soil	3G14907	8.5515	0.1802	9.0258	0.0853

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

GC Pesticide Data
Sample Data

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD38586-001
Client Id: HB-1 +QA\QC
Data File: 6G177651.D
Analysis Date: 06/26/23 06:19
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
5103-71-9	a-chlordane	0.0060	U	53494-70-5	Endrin Ketone	0.0060	U
309-00-2	Aldrin	0.0060	U	58-89-9	gamma-BHC	0.0012	U
319-84-6	alpha-BHC	0.0012	U	76-44-8	Heptachlor	0.0060	U
319-85-7	beta-BHC	0.0012	U	1024-57-3	Heptachlor Epoxide	0.0060	U
319-86-8	delta-BHC	0.0060	U	72-43-5	Methoxychlor	0.0060	U
60-57-1	**Dieldrin**	**0.0012**	**0.0029 d**	**72-54-8**	**p,p'-DDD**	**0.0030**	**0.0045 d**
959-98-8	Endosulfan I	0.0060	U	72-55-9	p,p'-DDE	0.0030	U
33213-65-9	Endosulfan II	0.0060	U	**50-29-3**	**p,p'-DDT**	**0.0030**	**0.026**
1031-07-8	Endosulfan Sulfate	0.0060	U	8001-35-2	Toxaphene	0.030	U
72-20-8	Endrin	0.0060	U	5103-74-2	y-chlordane	0.0060	U
7421-93-4	Endrin Aldehyde	0.0060	U	57-74-9	Chlordane (Total)	0.0060	U

Worksheet #: 696335

Total Target Concentration 0.033

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2023\GC_6\Data\06-26-23\
Data File : 6G177651.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2023 06:19
Operator : AH/PR/KM
Sample : AD38586-001
Misc : S,PEST
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 10:53:53 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Jun 15 16:40:36 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
	Target Compounds						
1)	TCMX-Surrogate	3.091	3.231	954.9E6	763.0E6	101.358m	96.873m
13)	Dieldrin	5.879	6.015	49419018	114.4E6	4.871m	13.946m#
15)	p,p'-DDD	6.470	6.414	59595486	510.2E6	7.504m	78.467m#
17)	p,p'-DDT	6.601	6.771	297.8E6	198.0E6	42.351m	34.026m
22)	DCB-Surrogate	8.403	9.104	877.1E6	895.3E6	110.755m	138.608m#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

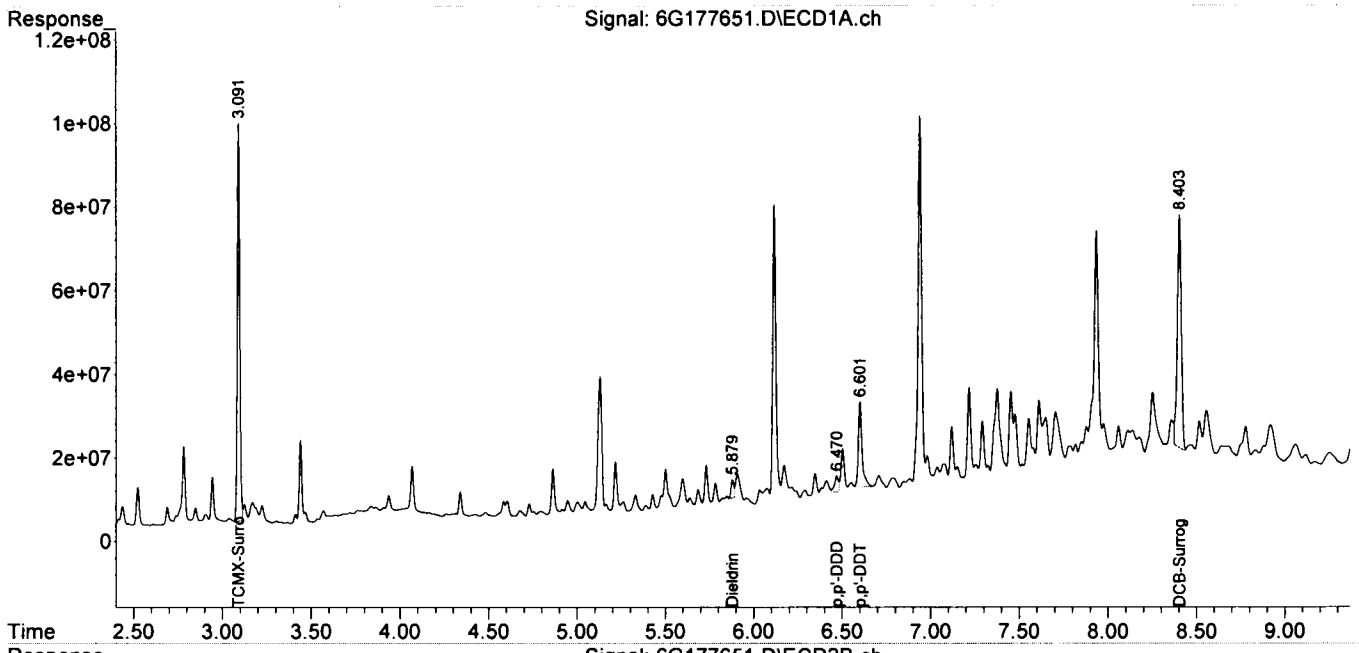
PR

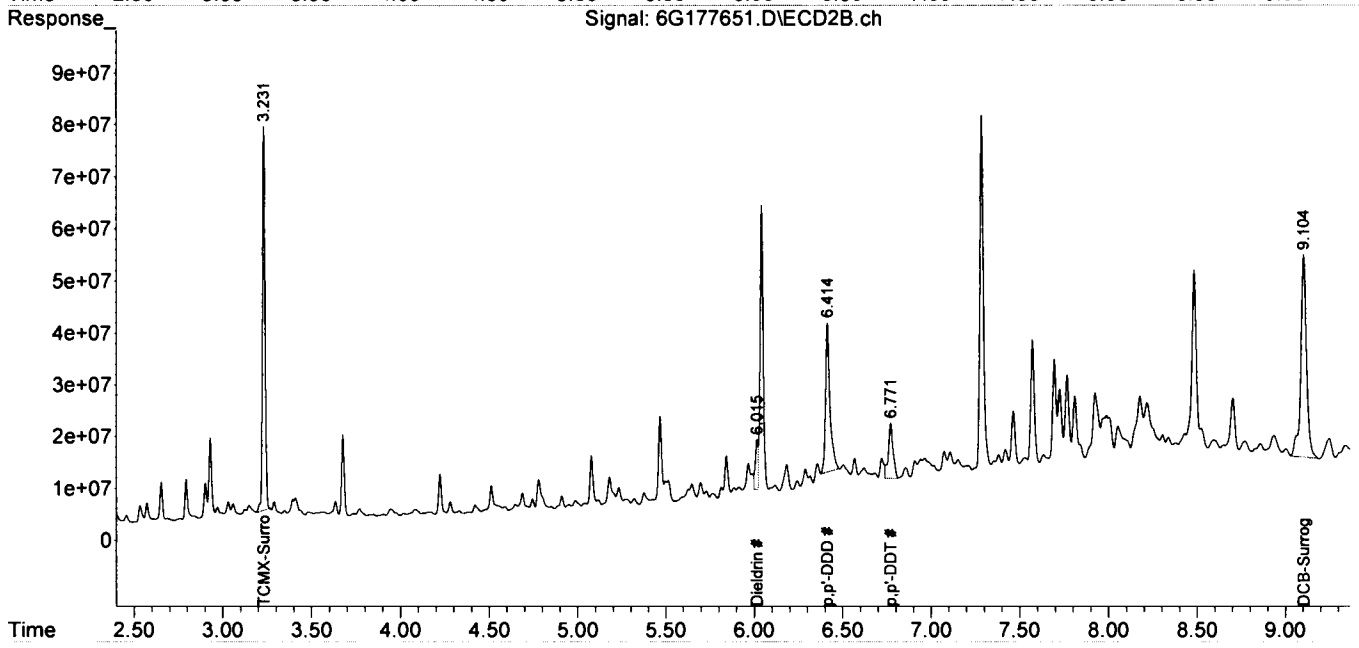
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\06-26-23\
Data File : 6G177651.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2023 06:19
Operator : AH/PR/KM
Sample : AD38586-001
Misc : S,PEST
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 10:53:53 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Jun 15 16:40:36 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD38586-002
Client Id: DUP
Data File: 6G177650.D
Analysis Date: 06/26/23 06:08
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 73

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
5103-71-9	a-chlordane	0.0068	U	53494-70-5	Endrin Ketone	0.0068	U
309-00-2	Aldrin	0.0068	U	58-89-9	gamma-BHC	0.0014	U
319-84-6	alpha-BHC	0.0014	U	76-44-8	Heptachlor	0.0068	U
319-85-7	beta-BHC	0.0014	U	1024-57-3	Heptachlor Epoxide	0.0068	U
319-86-8	delta-BHC	0.0068	U	72-43-5	Methoxychlor	0.0068	U
60-57-1	Dieldrin	0.0014	U	72-54-8	p,p'-DDD	0.0034	U
959-98-8	Endosulfan I	0.0068	U	72-55-9	p,p'-DDE	0.0034	U
33213-65-9	Endosulfan II	0.0068	U	50-29-3	p,p'-DDT	0.0034	U
1031-07-8	Endosulfan Sulfate	0.0068	U	8001-35-2	Toxaphene	0.034	U
72-20-8	Endrin	0.0068	U	5103-74-2	y-chlordane	0.0068	U
7421-93-4	Endrin Aldehyde	0.0068	U	57-74-9	Chlordane (Total)	0.0068	U

Worksheet #: 696335

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2023\GC_6\Data\06-26-23\
Data File : 6G177650.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2023 06:08
Operator : AH/PR/KM
Sample : AD38586-002
Misc : S,PEST
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 15:04:15 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Jun 15 16:40:36 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

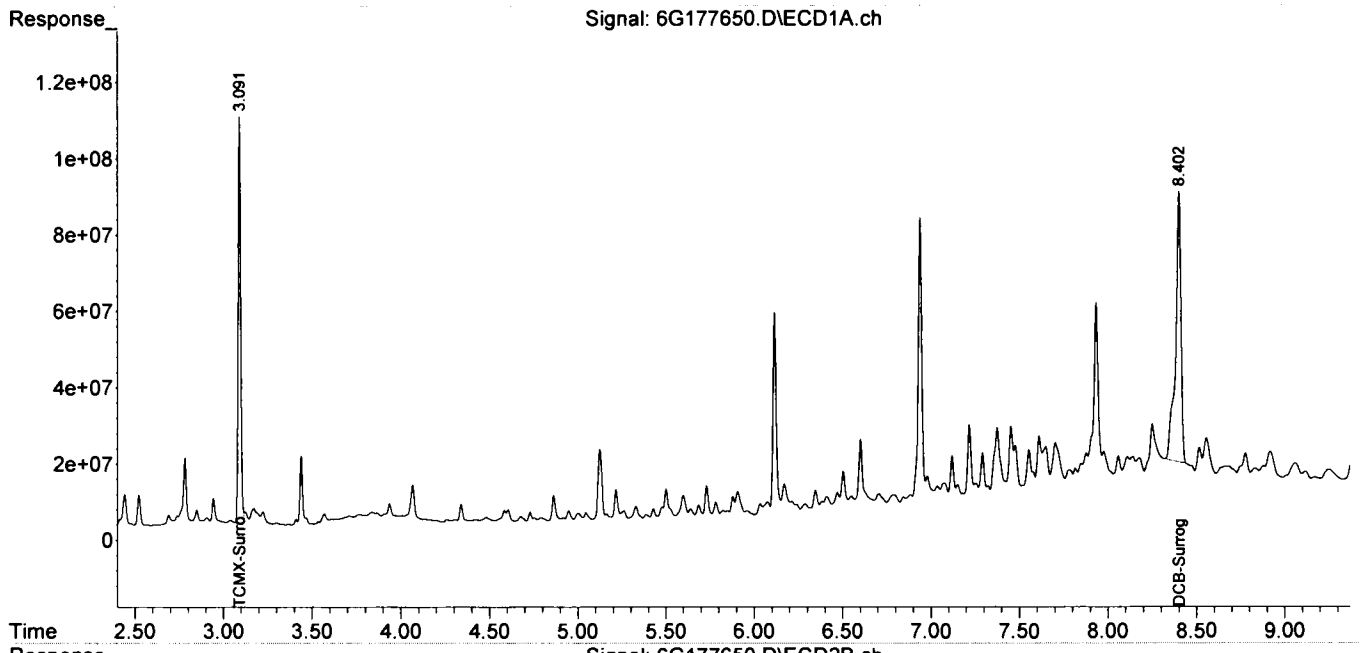
	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
	Target Compounds						
1)	TCMX-Surrogate	3.091	3.232	1066.1E6	852.1E6	113.163m	108.175m
22)	DCB-Surrogate	8.402	9.104	1505.3E6	948.6E6	190.093m	146.871m

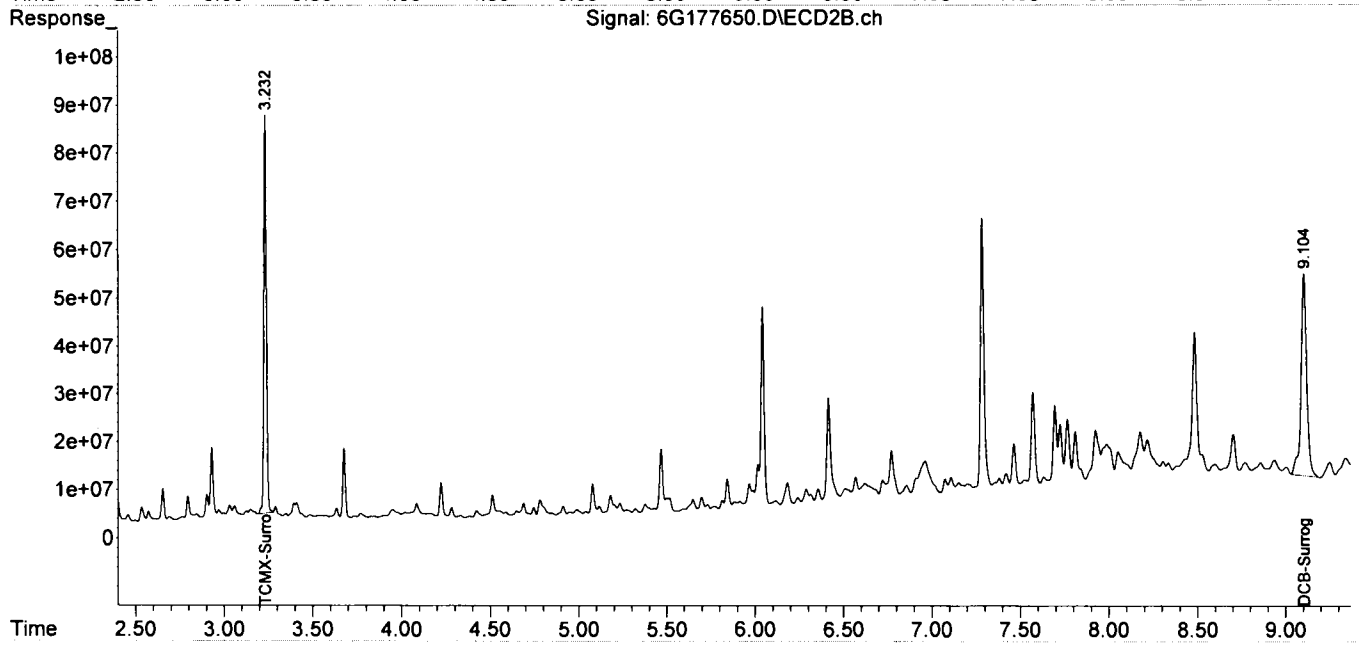
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2023\GC_6\Data\06-26-23\
Data File : 6G177650.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2023 06:08
Operator : AH/PR/KM
Sample : AD38586-002
Misc : S,PEST
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 15:04:15 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Jun 15 16:40:36 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD38586-007(MS:AD38
Client Id: HB-1 +QA\QC MS
Data File: 3G149078.D
Analysis Date: 06/26/23 04:59
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 82

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
5103-71-9	**(^)a-chlordane**	**0.0061**	**0.059 R**	**53494-70-5**	**Endrin Ketone**	**0.0061**	**0.069**
309-00-2	**(^)Aldrin**	**0.0061**	**0.056**	**58-89-9**	**(^)gamma-BHC**	**0.0012**	**0.051**
319-84-6	**(^)alpha-BHC**	**0.0012**	**0.052**	**76-44-8**	**(^)Heptachlor**	**0.0061**	**0.058**
319-85-7	**(^)beta-BHC**	**0.0012**	**0.058**	**1024-57-3**	**Heptachlor Epoxide**	**0.0061**	**0.055**
319-86-8	**(^)delta-BHC**	**0.0061**	**0.052**	**72-43-5**	**(^)Methoxychlor**	**0.0061**	**0.056**
60-57-1	**(^)Dieldrin**	**0.0012**	**0.086**	**72-54-8**	**(^)p,p'-DDD**	**0.0030**	**0.053**
959-98-8	**(^)Endosulfan I**	**0.0061**	**0.057**	**72-55-9**	**(^)p,p'-DDE**	**0.0030**	**0.059**
33213-65-9	**(^)Endosulfan II**	**0.0061**	**0.055**	**50-29-3**	**p,p'-DDT**	**0.0030**	**0.079**
1031-07-8	**(^)Endosulfan Sulfate**	**0.0061**	**0.047**	8001-35-2	Toxaphene	0.030	U
72-20-8	**(^)Endrin**	**0.0061**	**0.086**	**5103-74-2**	**(^)y-chlordane**	**0.0061**	**0.053**
7421-93-4	**(^)Endrin Aldehyde**	**0.0061**	**0.052 d**	**57-74-9**	**Chlordane (Total)**	**0.0061**	**0.11**

Worksheet #: 696338

Total Target Concentration 0.2

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2023\GC_3\Data\06-26-23\
Data File : 3G149078.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2023 04:59
Operator : AH//PR/KM
Sample : AD38586-007(MS:AD38586-001) (Sig #1); AD38586-007(MS) (Sig #2)
Misc : S,PEST
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 15:43:25 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:43:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

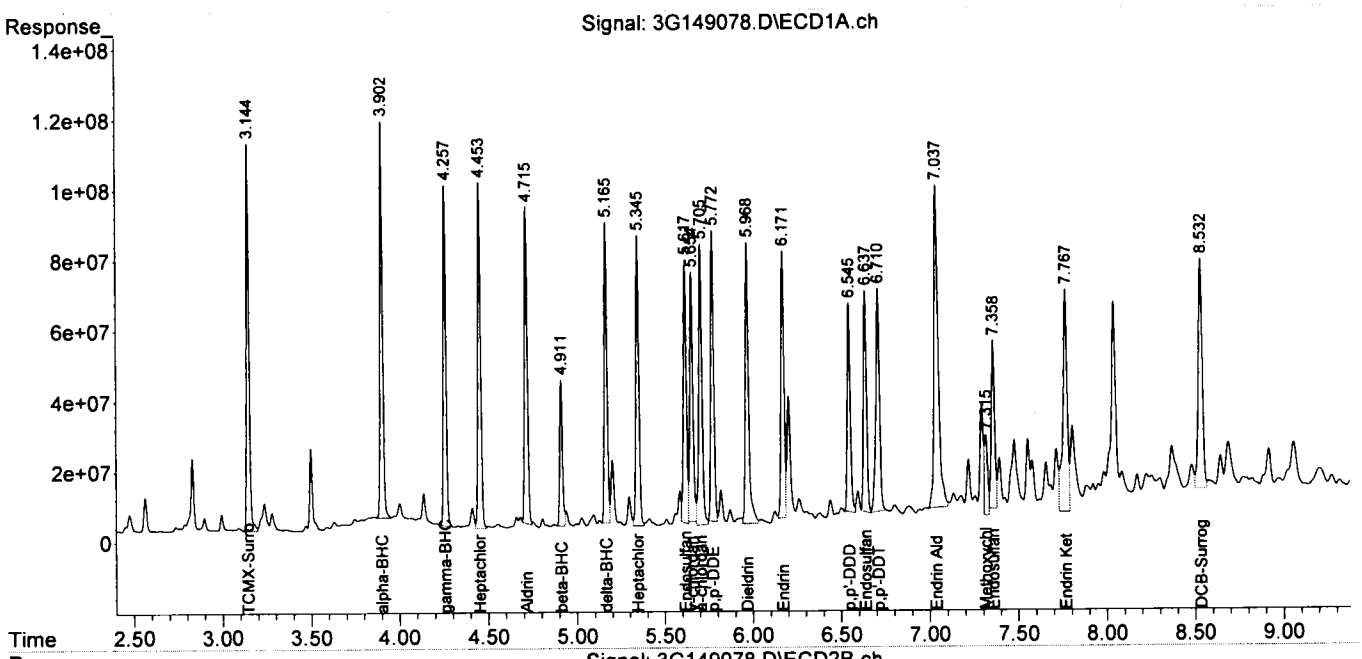
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.144	3.176	1135.8E6	924.8E6	113.849	108.207m
2)alpha-BHC	3.902	3.762	1173.3E6	977.2E6	80.295m	85.076
3)gamma-BHC	4.257	4.120	1029.7E6	850.3E6	80.631m	83.116
4)beta-BHC	4.911	4.167	448.2E6	439.2E6	80.639m	95.784
5)Heptachlor	4.453	4.434	1103.3E6	909.3E6	88.854	94.774
6)delta-BHC	5.165	4.523	934.5E6	837.2E6	77.472m	85.434
7)Aldrin	4.715	4.759	1012.6E6	864.6E6	84.357m	91.811
8)Heptachlor Epoxid	5.346	5.296	981.4E6	752.8E6	90.062	88.960
9)y-chlordane	5.654	5.454	872.0E6	727.0E6	81.294m	87.233
10)a-chlordane	5.705	5.612	1017.8E6	783.4E6	96.596m	96.665m
11)Endosulfan I	5.617	5.653	895.6E6	723.9E6	90.778m	93.252m
12)p,p'-DDE	5.772	5.839	967.8E6	776.6E6	92.961m	96.683
13)Dieldrin	5.969	5.961	1050.5E6	1193.0E6	95.403	140.811 #
14)Endrin	6.171	6.336	909.7E6	962.7E6	99.660m	141.042 #
15)p,p'-DDD	6.545	6.399	719.5E6	588.1E6	84.704m	86.957m
16)Endosulfan II	6.637	6.509	766.1E6	643.1E6	83.313m	90.334m
17)p,p'-DDT	6.710	6.709	924.5E6	729.6E6	129.132m	119.380
18)Endrin Aldehyde	7.037	6.839	1556.4E6	456.6E6	248.577m	85.281 #
19)Endosulfan Sulfat	7.358	6.960	636.4E6	480.9E6	76.569m	77.880m
20)Methoxychlor	7.315	7.585	295.7E6	307.5E6	76.477m	91.945m
21)Endrin Ketone	7.767	7.768	1068.6E6	827.0E6	112.600m	108.239
22)DCB-Surrogate	8.532	9.018	1051.5E6	1007.9E6	112.038m	155.952 #

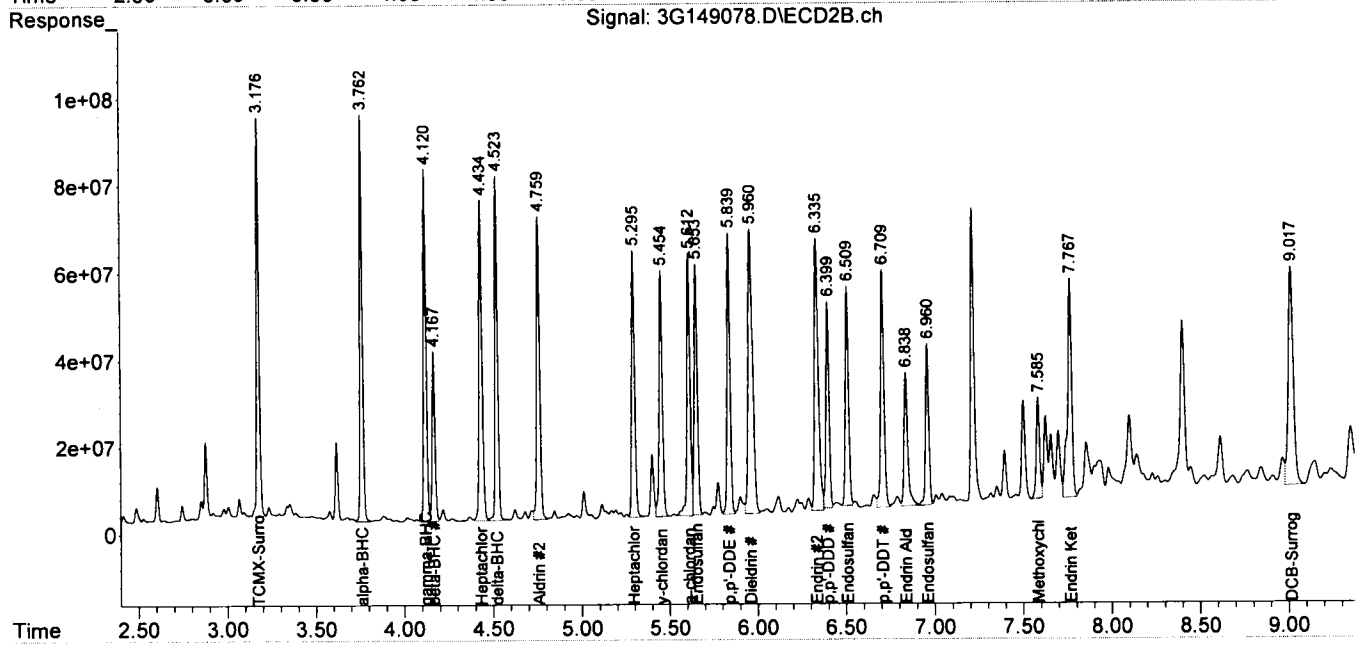
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2023\GC_3\Data\06-26-23\
Data File : 3G149078.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2023 04:59
Operator : AH//PR/KM
Sample : AD38586-007(MS:AD38586-001) (Sig #1); AD38586-007(MS) (Sig #2)
Misc : S,PEST
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 15:43:25 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:43:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD38586-008(MSD:AD
Client Id: HB-1 +QA\QC MSD
Data File: 3G149079.D
Analysis Date: 06/26/23 05:10
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
5103-71-9	a-chlordane	0.0060	0.068 R	53494-70-5	(^)Endrin Ketone	0.0060	0.081
309-00-2	(^)Aldrin	0.0060	0.064	58-89-9	(^)gamma-BHC	0.0012	0.057
319-84-6	(^)alpha-BHC	0.0012	0.058	76-44-8	(^)Heptachlor	0.0060	0.066
319-85-7	(^)beta-BHC	0.0012	0.067	1024-57-3	Heptachlor Epoxide	0.0060	0.062
319-86-8	(^)delta-BHC	0.0060	0.058	72-43-5	(^)Methoxychlor	0.0060	0.070
60-57-1	(^)Dieldrin	0.0012	0.10	72-54-8	p,p'-DDD	0.0030	0.061
959-98-8	(^)Endosulfan I	0.0060	0.066	72-55-9	(^)p,p'-DDE	0.0030	0.068
33213-65-9	(^)Endosulfan II	0.0060	0.063	50-29-3	(^)p,p'-DDT	0.0030	0.12
1031-07-8	Endosulfan Sulfate	0.0060	0.055	8001-35-2	Toxaphene	0.030	U
72-20-8	(^)Endrin	0.0060	0.10	5103-74-2	(^)y-chlordane	0.0060	0.061
7421-93-4	(^)Endrin Aldehyde	0.0060	0.067 d	57-74-9	Chlordane (Total)	0.0060	0.13

Worksheet #: 696338

Total Target Concentration 0.25

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2023\GC_3\Data\06-26-23\
Data File : 3G149079.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2023 05:10
Operator : AH//PR/KM
Sample : AD38586-008(MSD:AD38586-001) (Sig #1); AD38586-007(MSD) (Sig #2)
Misc : S,PEST
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 15:44:26 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:43:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.145	3.177	1257.1E6	1026.7E6	126.012m	120.141m
2)alpha-BHC	3.902	3.762	1317.3E6	1103.5E6	90.152m	96.069
3)gamma-BHC	4.257	4.120	1186.7E6	962.6E6	92.927	94.096
4)beta-BHC	4.911	4.167	513.3E6	506.5E6	92.344m	110.469
5)Heptachlor	4.453	4.434	1303.5E6	1047.0E6	104.975m	109.125
6)delta-BHC	5.165	4.523	1091.2E6	946.0E6	90.455m	96.546
7)Aldrin	4.715	4.759	1133.6E6	1003.9E6	94.436m	106.602
8)Heptachlor Epoxid	5.346	5.296	1129.7E6	862.1E6	103.670	101.878
9)y-chlordane	5.654	5.454	1012.6E6	839.5E6	94.397m	100.732
10)a-chlordane	5.705	5.612	1183.9E6	881.2E6	112.361m	108.726m
11)Endosulfan I	5.617	5.653	1049.4E6	844.7E6	106.359m	108.809m
12)p,p'-DDE	5.772	5.839	1124.6E6	905.2E6	108.022m	112.696
13)Dieldrin	5.969	5.961	1256.1E6	1447.8E6	114.066	170.882 #
14)Endrin	6.171	6.337	1109.3E6	1180.4E6	121.525m	172.934 #
15)p,p'-DDD	6.545	6.399	865.7E6	684.5E6	101.920m	101.213m
16)Endosulfan II	6.638	6.509	943.2E6	749.6E6	102.579	105.298m
17)p,p'-DDT	6.711	6.709	1119.3E6	1190.1E6	156.342m	194.735
18)Endrin Aldehyde	7.038	6.840	1800.0E6	591.3E6	287.493m	110.442 #
19)Endosulfan Sulfat	7.358	6.961	763.3E6	543.6E6	91.834m	88.034m
20)Methoxychlor	7.316	7.585	401.1E6	389.8E6	103.741m	116.549m
21)Endrin Ketone	7.767	7.768	1142.6E6	1028.9E6	120.401m	134.658
22)DCB-Surrogate	8.532	9.017	1070.0E6	1233.9E6	114.006m	190.914 #

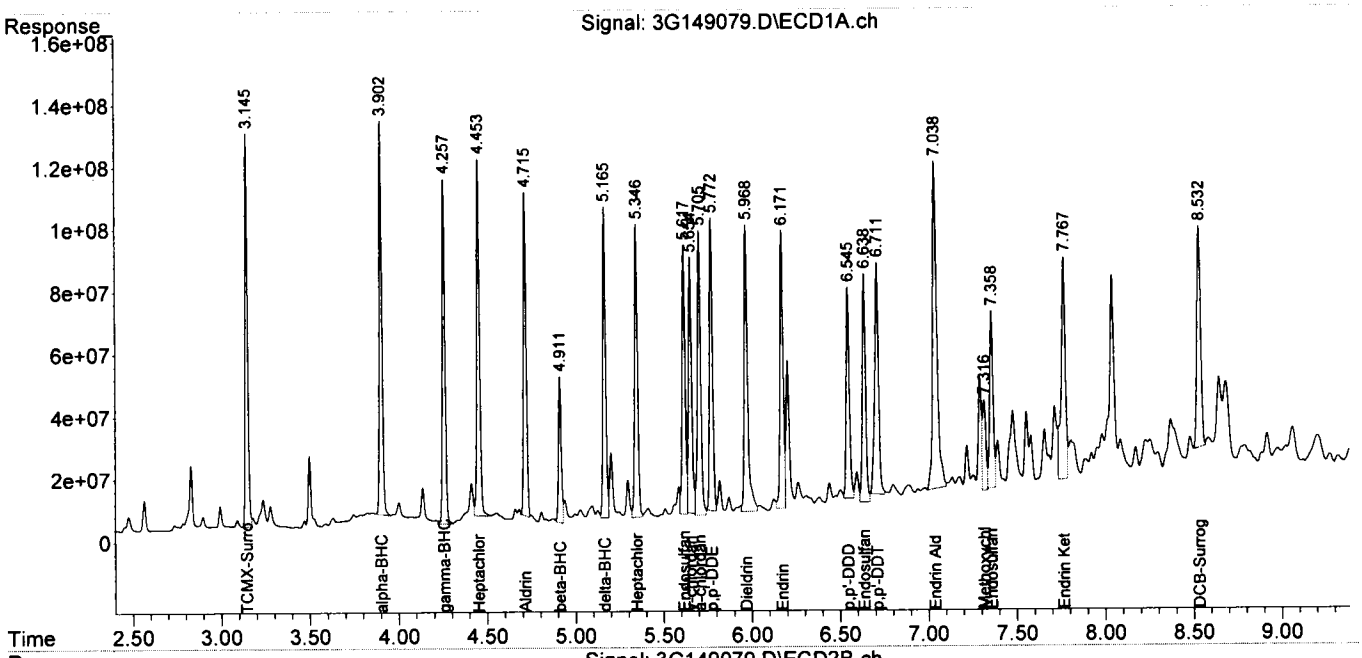
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

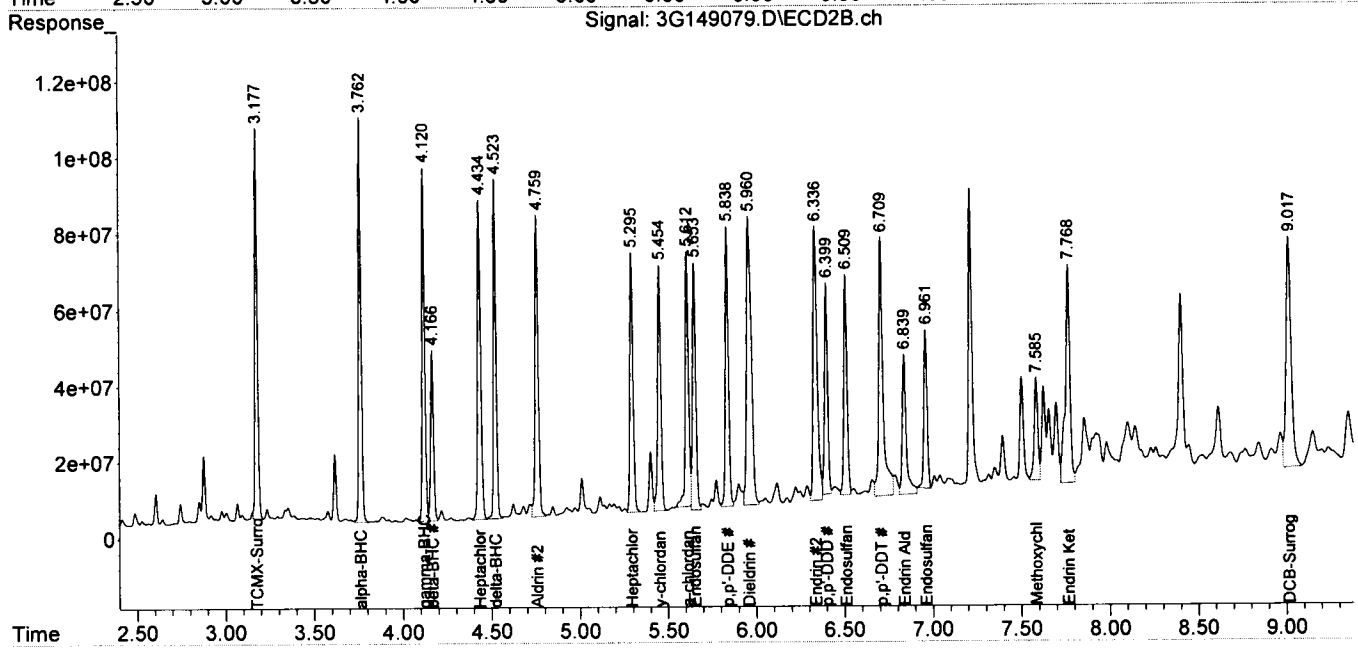
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\06-26-23\
Data File : 3G149079.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2023 05:10
Operator : AH//PR/KM
Sample : AD38586-008(MSD:AD38586-001) (Sig #1); AD38586-007(MSD) (Sig #2)
Misc : S,PEST
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 15:44:26 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:43:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P
Signal #1 Info : .32
Signal #2 Phase: db-17
Signal #2 Info : .32





GC Pesticide Data
Standards Data

3061429 0759

Form 6

Initial Calibration

Method: EPA 8081B

Instrument: GC_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3G148106.D	CAL PEST@2PPB	06/02/23 16:02	2	3G148107.D	CAL PEST@10PPB	06/02/23 16:14
3	3G148109.D	CAL PEST@50PPB	06/02/23 16:37	4	3G148110.D	CAL PEST@100PPB	06/02/23 16:49
5	3G148111.D	CAL PEST@200PPB	06/02/23 17:01	6	3G148112.D	CAL PEST@400PPB	06/02/23 17:13
7	3G148113.D	CAL CHLORO@100P	06/02/23 17:24				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
TCMX-Surrogate	1	0	Avg	915.23	1016.6	1001.0	1031.3	1020.2	1001.3	----	----	998	3.16	1.00	1.00	4.2	2.00	10.00	50.00	100.0	200.0	400.0		
alpha-BHC	1	0	Avg	1431.9	1459.4	1426.0	1465.3	1502.2	1481.9	----	----	1460	3.92	1.00	1.00	2.0	2.00	10.00	50.00	100.0	200.0	400.0		
gamma-BHC	1	0	Avg	1050.1	1243.3	1293.7	1328.7	1401.7	1344.4	----	----	1280	4.28	0.999	1.00	9.6	2.00	10.00	50.00	100.0	200.0	400.0		
beta-BHC	1	0	Avg	541.40	566.94	552.15	560.68	563.67	550.08	----	----	556	4.94	1.00	1.00	1.7	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor	1	0	Avg	1099.6	1212.4	1253.5	1294.5	1306.9	1283.1	----	----	1240	4.48	1.00	1.00	6.2	2.00	10.00	50.00	100.0	200.0	400.0		
delta-BHC	1	0	Avg	976.04	1126.9	1226.0	1283.3	1313.6	1311.6	----	----	1210	5.19	1.00	1.00	11	2.00	10.00	50.00	100.0	200.0	400.0		
Aldrin	1	0	Avg	998.48	1148.3	1229.1	1265.6	1288.4	1272.1	----	----	1200	4.74	1.00	1.00	9.2	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor Epoxide	1	0	Avg	971.89	1061.4	1095.7	1129.0	1150.7	1129.3	----	----	1090	5.38	1.00	1.00	6.0	2.00	10.00	50.00	100.0	200.0	400.0		
v-chlordane	1	0	Avg	941.56	1031.6	1079.4	1118.7	1139.5	1124.8	----	----	1070	5.69	1.00	1.00	7.0	2.00	10.00	50.00	100.0	200.0	400.0		
a-chlordane	1	0	Avg	943.29	1032.8	1058.0	1090.0	1108.3	1089.2	----	----	1050	5.74	1.00	1.00	5.7	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan I	1	0	Avg	912.81	949.59	985.59	1017.9	1035.1	1018.7	----	----	987	5.65	1.00	1.00	4.8	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDE	1	0	Avg	839.71	977.05	1058.7	1106.4	1137.6	1126.9	----	----	1040	5.81	1.00	1.00	11	2.00	10.00	50.00	100.0	200.0	400.0		
Dieldrin	1	0	Avg	903.09	1039.1	1118.9	1166.0	1195.1	1184.6	----	----	1100	6.00	1.00	1.00	10	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin	1	0	Avg	789.40	885.50	921.24	948.28	982.60	950.02	----	----	913	6.21	1.00	1.00	7.5	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDD	1	0	Avg	715.44	791.74	857.19	901.34	918.19	912.49	----	----	849	6.58	1.00	1.00	9.5	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan II	1	0	Avg	809.98	886.41	926.33	959.06	973.06	962.26	----	----	920	6.67	1.00	1.00	6.8	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDT	1	0	Avg	540.79	628.07	719.20	763.80	815.76	827.85	----	----	716	6.75	0.998	0.999	16	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Aldehyde	1	0	Avg	544.64	597.14	630.11	652.14	661.67	670.90	----	----	626	7.09	1.00	1.00	7.6	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan Sulfate	1	0	Avg	750.63	797.29	834.49	857.96	871.39	875.31	----	----	831	7.40	1.00	1.00	5.9	2.00	10.00	50.00	100.0	200.0	400.0		
Methoxychlor	1	0	Avg	307.95	357.06	386.45	404.29	429.09	434.80	----	----	387	7.34	0.999	1.00	12	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Ketone	1	0	Avg	847.08	898.16	943.02	979.84	1009.7	1016.3	----	----	949	7.81	1.00	1.00	7.0	2.00	10.00	50.00	100.0	200.0	400.0		
DCB-Surrogate	1	0	Avg	979.40	993.14	942.56	930.23	910.72	875.11	----	----	939	8.58	1.00	1.00	4.7	2.00	10.00	50.00	100.0	200.0	400.0		
Chlordane (Technical)	1	1	Avg	----	----	----	----	----	----	----	----	62.9	4.48	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	1	2	Avg	----	----	----	----	----	----	----	----	111	5.69	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	1	3	Avg	----	----	----	----	----	----	----	----	159	5.74	-1	-1	Lvl=7	100.0							
Toxaphene	1	1	Avg	10.484	10.221	9.6826	9.7771	10.342	9.8304	----	----	10.1	6.02	0.999	1.00	3.3	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	1	2	Avg	15.875	12.469	13.618	14.344	15.159	14.963	----	----	14.4	6.31	1.00	1.00	8.5	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	1	3	Avg	12.337	12.177	11.938	12.029	13.523	12.232	----	----	12.4	6.60	0.997	0.998	4.7	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	1	4	Avg	10.867	12.112	12.417	12.838	14.150	13.639	----	----	12.7	6.96	0.999	0.999	9.2	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	1	5	Avg	12.608	15.625	17.018	18.629	20.887	20.446	----	----	17.5	7.33	0.999	0.999	18	50.00	200.0	500.0	1000.	2000.	4000.		
TCMX-Surrogate	2	0	Avg	818.48	863.86	869.90	870.87	868.76	835.82	----	----	855	3.19	1.00	1.00	2.6	2.00	10.00	50.00	100.0	200.0	400.0		
alpha-BHC	2	0	Avg	894.96	1149.8	1158.9	1213.9	1251.5	1222.8	----	----	1150	3.78	1.00	1.00	11	2.00	10.00	50.00	100.0	200.0	400.0		
gamma-BHC	2	0	Avg	834.01	961.58	1044.1	1090.1	1114.7	1093.7	----	----	1020	4.14	1.00	1.00	11	2.00	10.00	50.00	100.0	200.0	400.0		
beta-BHC	2	0	Avg	440.70	466.37	453.39	462.87	471.00	456.65	----	----	459	4.19	1.00	1.00	2.4	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor	2	0	Avg	829.54	902.76	963.63	1007.6	1036.4	1016.7	----	----	959	4.45	1.00	1.00	8.3	2.00	10.00	50.00	100.0	200.0	400.0		
delta-BHC	2	0	Avg	747.28	887.56	1003.3	1062.6	1095.1	1083.3	----	----	980	4.54	1.00	1.00	14	2.00	10.00	50.00	100.0	200.0	400.0		

Avg Rsd Col 1: 7.76 Avg Rsd Col 2: 10.08

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pch/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form 6
Initial Calibration

Method: EPA 8081B

Instrument: GC_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3G148106.D	CAL PEST@2PPB	06/02/23 16:02	2	3G148107.D	CAL PEST@10PPB	06/02/23 16:14
3	3G148109.D	CAL PEST@50PPB	06/02/23 16:37	4	3G148110.D	CAL PEST@100PPB	06/02/23 16:49
5	3G148111.D	CAL PEST@200PPB	06/02/23 17:01	6	3G148112.D	CAL PEST@400PPB	06/02/23 17:13
7	3G148113.D	CAL CHLORO@100P	06/02/23 17:24				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Aldrin	2	0	Avg	740.74	871.38	966.79	1011.2	1041.2	1018.8	----	----	942	4.78	1.00	1.00	12	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor Epoxide	2	0	Avg	718.85	795.24	855.33	890.28	918.59	898.76	----	----	846	5.32	1.00	1.00	9.0	2.00	10.00	50.00	100.0	200.0	400.0		
γ-chlordane	2	0	Avg	700.46	772.53	841.78	881.84	910.70	892.84	----	----	833	5.48	1.00	1.00	9.8	2.00	10.00	50.00	100.0	200.0	400.0		
α-chlordane	2	0	Avg	684.23	764.96	815.20	856.00	878.98	863.21	----	----	810	5.64	1.00	1.00	9.2	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan I	2	0	Avg	658.18	721.16	779.77	820.02	846.90	831.76	----	----	776	5.68	1.00	1.00	9.5	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDE	2	0	Avg	615.54	726.45	816.09	863.72	905.22	892.48	----	----	803	5.86	1.00	1.00	14	2.00	10.00	50.00	100.0	200.0	400.0		
Dieldrin	2	0	Avg	656.99	765.42	854.90	910.39	954.23	941.49	----	----	847	5.98	1.00	1.00	14	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin	2	0	Avg	556.86	618.98	685.79	723.27	762.26	748.27	----	----	683	6.36	1.00	1.00	12	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDD	2	0	Avg	526.07	606.89	686.88	726.70	758.09	753.10	----	----	676	6.42	1.00	1.00	14	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan II	2	0	Avg	584.95	663.15	716.93	753.84	780.75	771.72	----	----	712	6.54	1.00	1.00	11	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDT	2	0	Avg	463.95	526.95	603.37	655.07	705.14	712.18	----	----	611	6.73	1.00	1.00	16	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Aldehyde	2	0	Avg	455.65	498.80	531.05	561.95	579.84	585.15	----	----	535	6.86	1.00	1.00	9.5	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan Sulfate	2	0	Avg	533.47	577.08	614.46	650.82	664.08	664.70	----	----	617	6.99	1.00	1.00	8.6	2.00	10.00	50.00	100.0	200.0	400.0		
Methoxychlor	2	0	Avg	306.46	306.77	325.47	342.92	362.17	362.90	----	----	334	7.61	1.00	1.00	7.7	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Ketone	2	0	Avg	628.28	699.41	762.46	811.73	839.13	843.49	----	----	764	7.80	1.00	1.00	11	2.00	10.00	50.00	100.0	200.0	400.0		
DCB-Surrogate	2	0	Avg	619.41	645.82	642.46	659.44	660.32	650.39	----	----	646	9.05	1.00	1.00	2.3	2.00	10.00	50.00	100.0	200.0	400.0		
Chlordane (Technical)	2	1	Avg	----	----	----	----	----	----	----	----	49.3	4.45	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	2	2	Avg	----	----	----	----	----	----	----	----	102	5.48	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	2	3	Avg	----	----	----	----	----	----	----	----	71.0	5.63	-1	-1	Lvl=7	100.0							
Toxaphene	2	1	Avg	6.1000	6.2224	6.4989	6.5020	6.9542	7.0345	----	----	6.55	6.08	1.00	1.00	5.8	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	2	2	Avg	9.6717	11.119	10.900	11.179	12.136	11.818	----	----	11.1	6.77	0.999	1.00	7.7	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	2	3	Avg	4.4569	5.9589	5.6319	5.9717	6.6094	6.8260	----	----	5.91	7.24	0.999	1.00	14	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	2	4	Avg	10.906	12.337	13.232	14.094	15.332	15.240	----	----	13.5	7.39	1.00	1.00	13	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	2	5	Avg	7.9994	8.4319	8.6043	9.2788	10.856	10.958	----	----	9.35	7.45	0.999	0.999	14	50.00	200.0	500.0	1000.	2000.	4000.		

Avg Rsd Col 1: 7.76 Avg Rsd Col 2: 10.08

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pch/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0602-23\
Data File : 3G148106.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 16:02
Operator : AH//PR/KM
Sample : CAL PEST@2PPB
Misc : S,PEST
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 09:42:44 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.159	3.190	18304717	16369716	1.870m	1.826m
2)alpha-BHC	3.924	3.779	28638600	17899268	2.082m	1.477m#
3)gamma-BHC	4.280	4.138	21002879	16680205	1.726m	1.533m
4)beta-BHC	4.939	4.185	10828069	8814119	1.932	1.695m
5)Heptachlor	4.480	4.454	21992726	16590946	2.224m	2.087m
6)delta-BHC	5.192	4.542	19520807	14945647	1.650	1.373
7)Aldrin	4.743	4.780	19969787	14814822	1.698m	1.450m
8)Heptachlor Epoxid	5.378	5.318	19437872	14377006	1.871m	1.555m
9)y-chlordane	5.688	5.477	18831344	14009277	1.719	1.509m
10)a-chlordane	5.741	5.636	18865806	13684689	1.806	1.520
11)Endosulfan I	5.651	5.678	18256340	13163666	2.019	1.508 #
12)p,p'-DDE	5.808	5.862	16794370	12310932	1.658	1.406m
13)Dieldrin	6.003	5.984	18061913	13139848	1.703m	1.393m
14)Endrin	6.205	6.360	15788006	11137219	2.500m	1.904m
15)p,p'-DDD	6.585	6.423	14308907	10521547	1.544	1.362
16)Endosulfan II	6.675	6.535	16199714	11699085	1.804	1.447m
17)p,p'-DDT	6.751	6.734	10815817	9279110	2.715	1.746m#
18)Endrin Aldehyde	7.091	6.864	10892865	9113074	1.799m	1.404m
19)Endosulfan Sulfat	7.401	6.986	15012605	10669544	1.868m	1.495m
20)Methoxychlor	7.341	7.612	6159098	6129294	2.599m	2.214m
21)Endrin Ketone	7.807	7.796	16941795	12565674	1.861m	1.413m
22)DCB-Surrogate	8.582	9.052	19588088	12388275	2.119m	1.615m
23)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

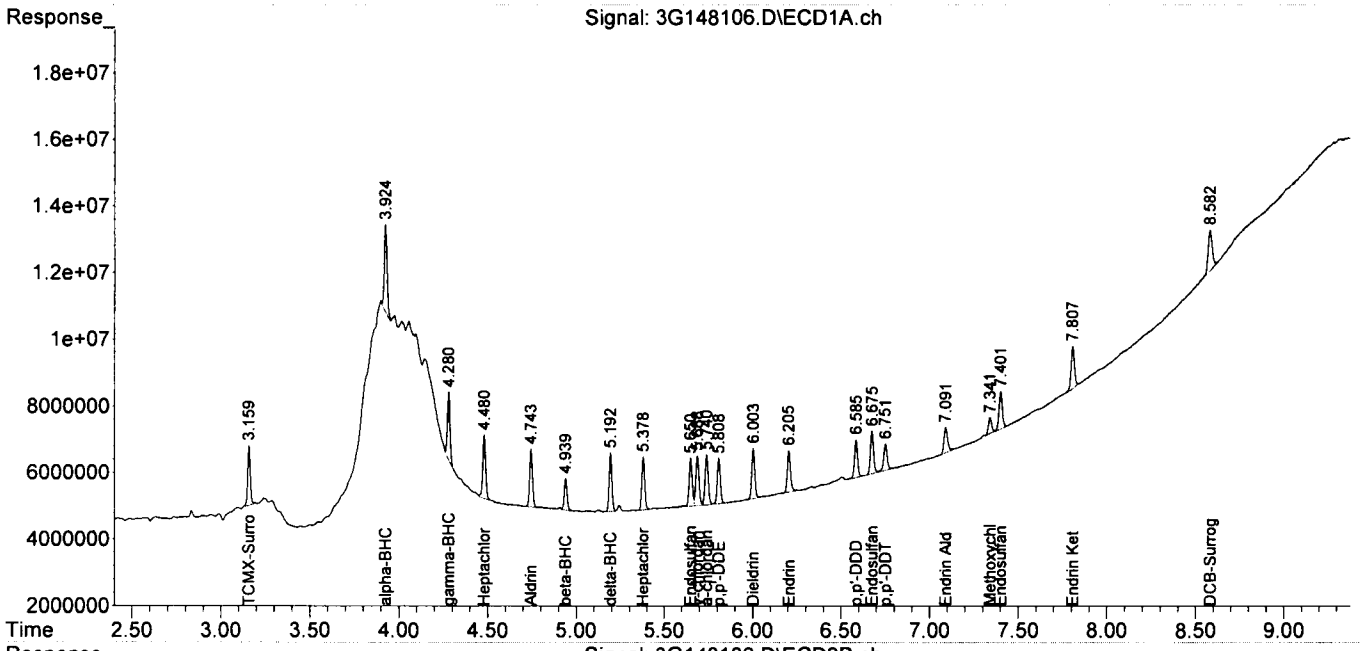
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

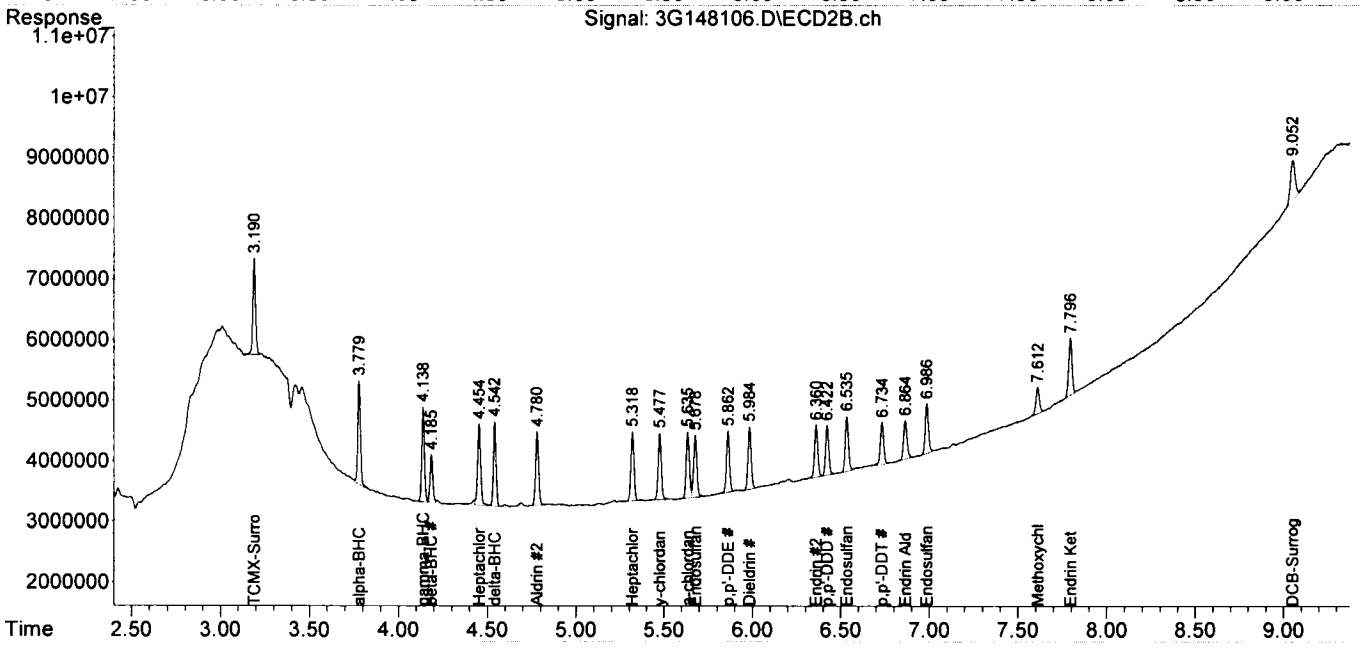
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0602-23\
Data File : 3G148106.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 16:02
Operator : AH//PR/KM
Sample : CAL PEST@2PPB
Misc : S,PEST
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 09:42:44 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0602-23\
Data File : 3G148107.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 16:14
Operator : AH//PR/KM
Sample : CAL PEST@10PPB
Misc : S,PEST
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:43:36 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.159	3.191	101.7E6	86386608	10.388m	9.637m
2)alpha-BHC	3.923	3.780	145.9E6	115.0E6	10.612m	9.490
3)gamma-BHC	4.279	4.139	124.3E6	96158204	10.217m	8.837
4)beta-BHC	4.939	4.185	56694069	46637070	10.117	8.967
5)Heptachlor	4.480	4.454	121.2E6	90276876	12.259m	11.354
6)delta-BHC	5.191	4.542	112.7E6	88756614	9.528	8.154
7)Aldrin	4.743	4.781	114.8E6	87138190	9.761	8.526
8)Heptachlor Epoxid	5.377	5.318	106.1E6	79524670	10.217	8.599
9)y-chlordane	5.688	5.477	103.2E6	77253704	9.418	8.324
10)a-chlordane	5.739	5.636	103.3E6	76496224	9.888	8.498
11)Endosulfan I	5.650	5.677	94959524	72116756	10.504	8.263
12)p,p'-DDE	5.808	5.861	97705889	72645804	9.646	8.298m
13)Dieldrin	6.002	5.984	103.9E6	76542877	9.799m	8.116
14)Endrin	6.204	6.360	88550337	61898606	14.023m	10.582m
15)p,p'-DDD	6.585	6.423	79174954	60689626	8.544m	7.859
16)Endosulfan II	6.674	6.535	88641843	66315098	9.870	8.201
17)p,p'-DDT	6.751	6.734	62807311	52695838	15.443	9.852m#
18)Endrin Aldehyde	7.090	6.864	59714611	49880395	9.863m	7.686m
19)Endosulfan Sulfat	7.401	6.986	79729083	57708576	9.920	8.085
20)Methoxychlor	7.340	7.611	35706646	30677723	14.832	11.014m#
21)Endrin Ketone	7.806	7.795	89816963	69941886	9.868m	7.864m
22)DCB-Surrogate	8.582	9.052	99314091	64582783	10.741m	8.418m
23)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

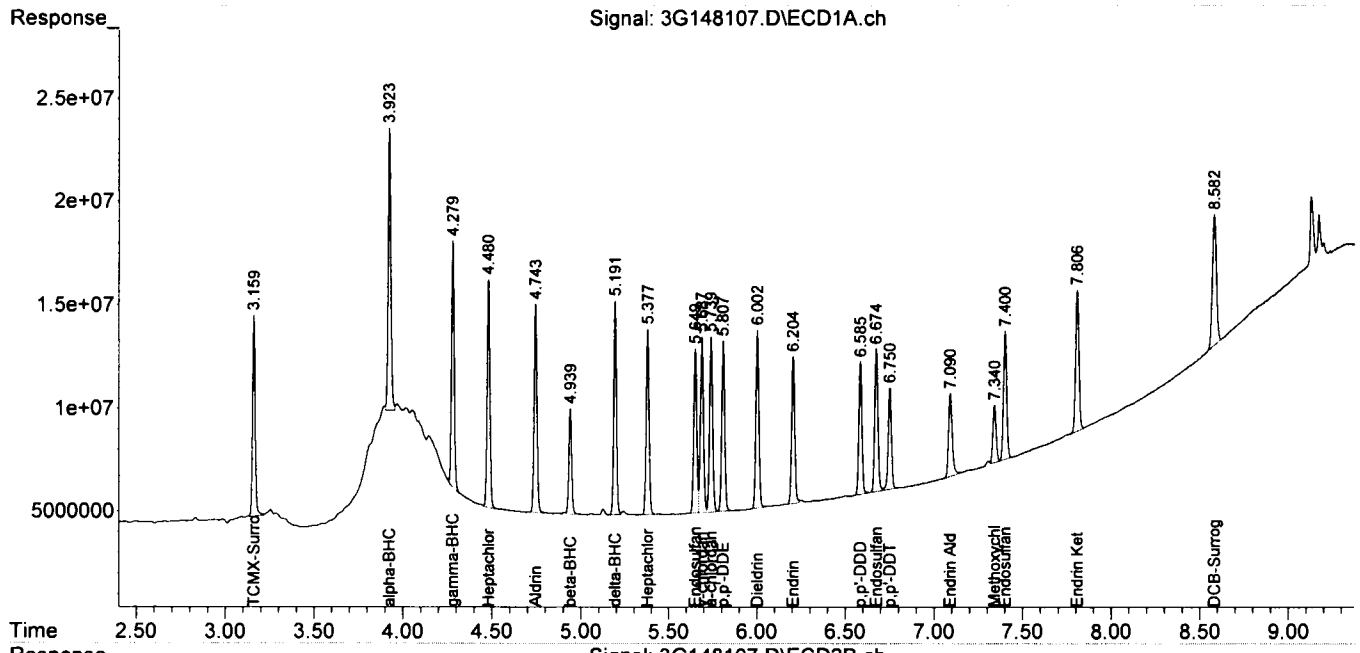
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

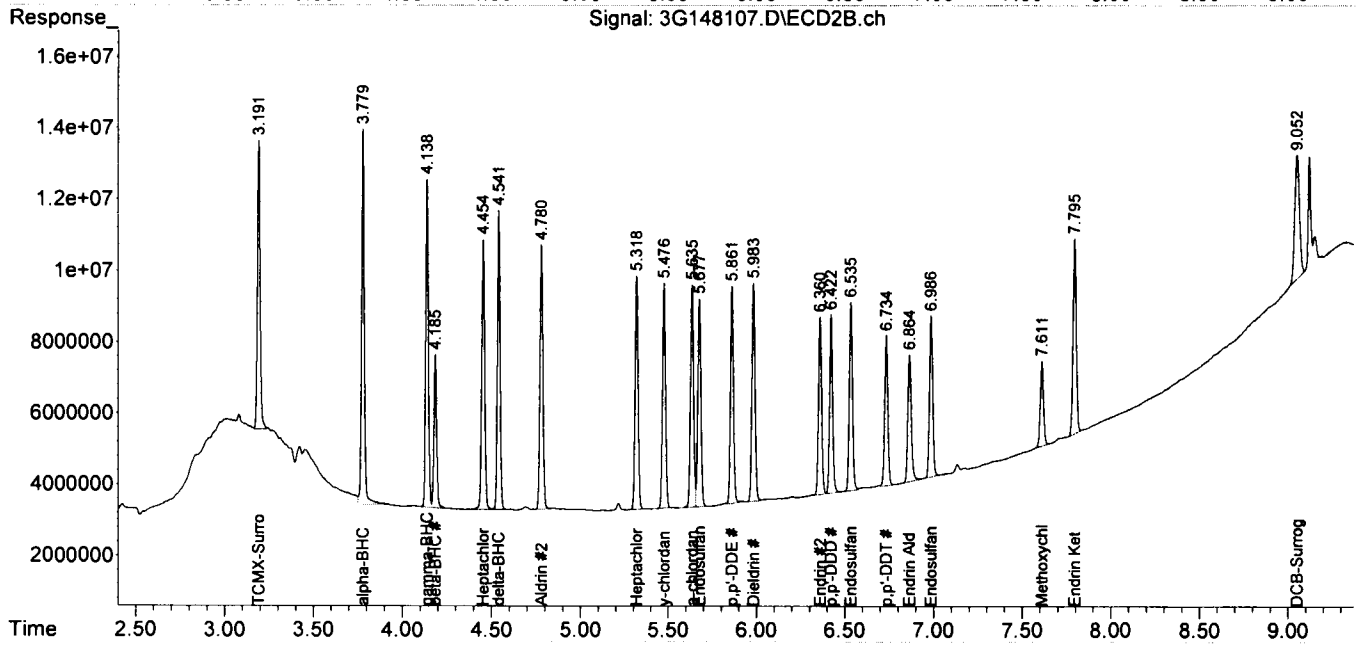
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0602-23\
Data File : 3G148107.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 16:14
Operator : AH//PR/KM
Sample : CAL PEST@10PPB
Misc : S,PEST
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:43:36 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0602-23\
Data File : 3G148109.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 16:37
Operator : AH//PR/KM
Sample : CAL PEST@50PPB
Misc : S,PEST
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:02:47 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.159	3.191	500.5E6	435.0E6	51.147m	48.523m
2)alpha-BHC	3.923	3.779	713.0E6	579.5E6	51.847m	47.826m
3)gamma-BHC	4.280	4.139	646.9E6	522.1E6	53.154m	47.976
4)beta-BHC	4.939	4.185	276.1E6	226.7E6	49.266	43.588
5)Heptachlor	4.480	4.454	626.8E6	481.8E6	63.369m	60.599m
6)delta-BHC	5.192	4.542	613.0E6	501.7E6	51.830	46.090
7)Aldrin	4.744	4.781	614.6E6	483.4E6	52.244	47.297
8)Heptachlor Epoxid	5.378	5.319	547.9E6	427.7E6	52.736	46.243
9)y-chlordane	5.688	5.477	539.7E6	420.9E6	49.269	45.351
10)a-chlordane	5.739	5.636	529.0E6	407.6E6	50.646	45.281
11)Endosulfan I	5.650	5.678	492.8E6	389.9E6	54.510	44.671
12)p,p'-DDE	5.808	5.862	529.4E6	408.0E6	52.264	46.609
13)Dieldrin	6.002	5.984	559.5E6	427.5E6	52.763	45.322
14)Endrin	6.205	6.360	460.6E6	342.9E6	72.947	58.623m
15)p,p'-DDD	6.585	6.423	428.6E6	343.4E6	46.252	44.473
16)Endosulfan II	6.674	6.535	463.2E6	358.5E6	51.575	44.328
17)p,p'-DDT	6.750	6.734	359.6E6	301.7E6	80.096	54.536m#
18)Endrin Aldehyde	7.090	6.865	315.1E6	265.5E6	52.036m	40.916m
19)Endosulfan Sulfat	7.401	6.986	417.2E6	307.2E6	51.916m	43.043
20)Methoxychlor	7.341	7.612	193.2E6	162.7E6	74.541	56.584m
21)Endrin Ketone	7.807	7.795	471.5E6	381.2E6	51.802	42.866
22)DCB-Surrogate	8.581	9.051	471.3E6	321.2E6	50.971m	41.869m
23)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

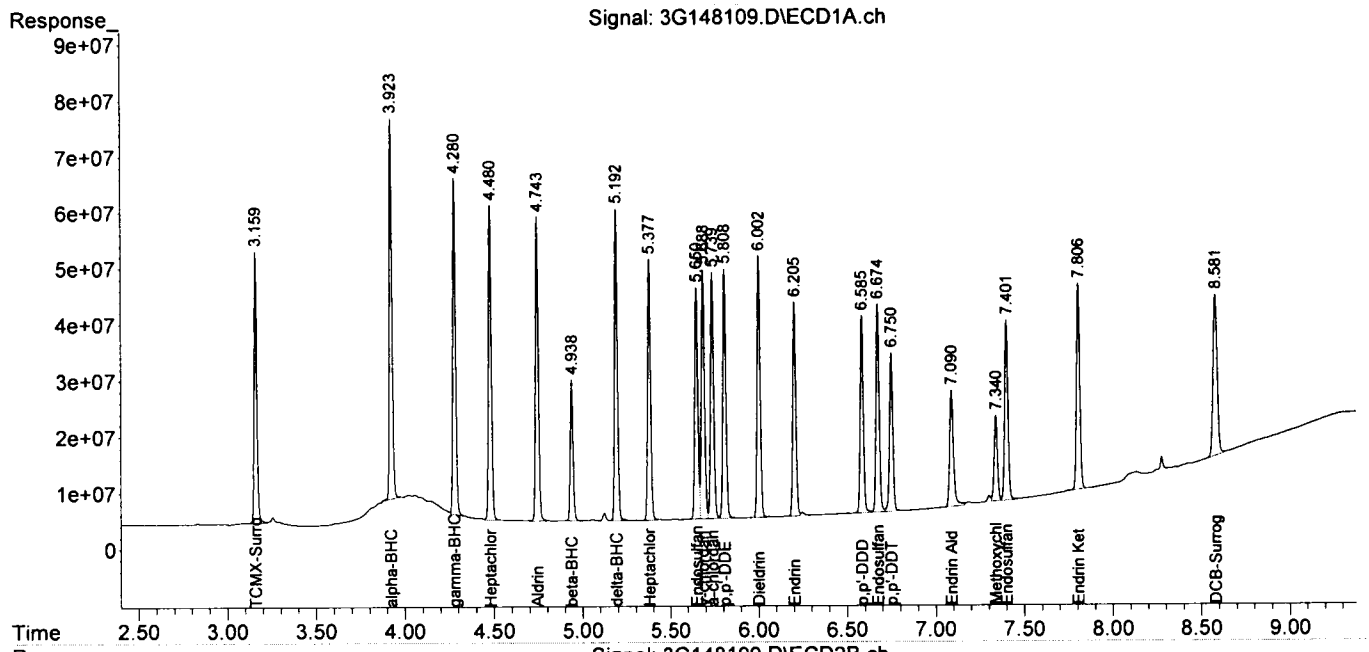
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

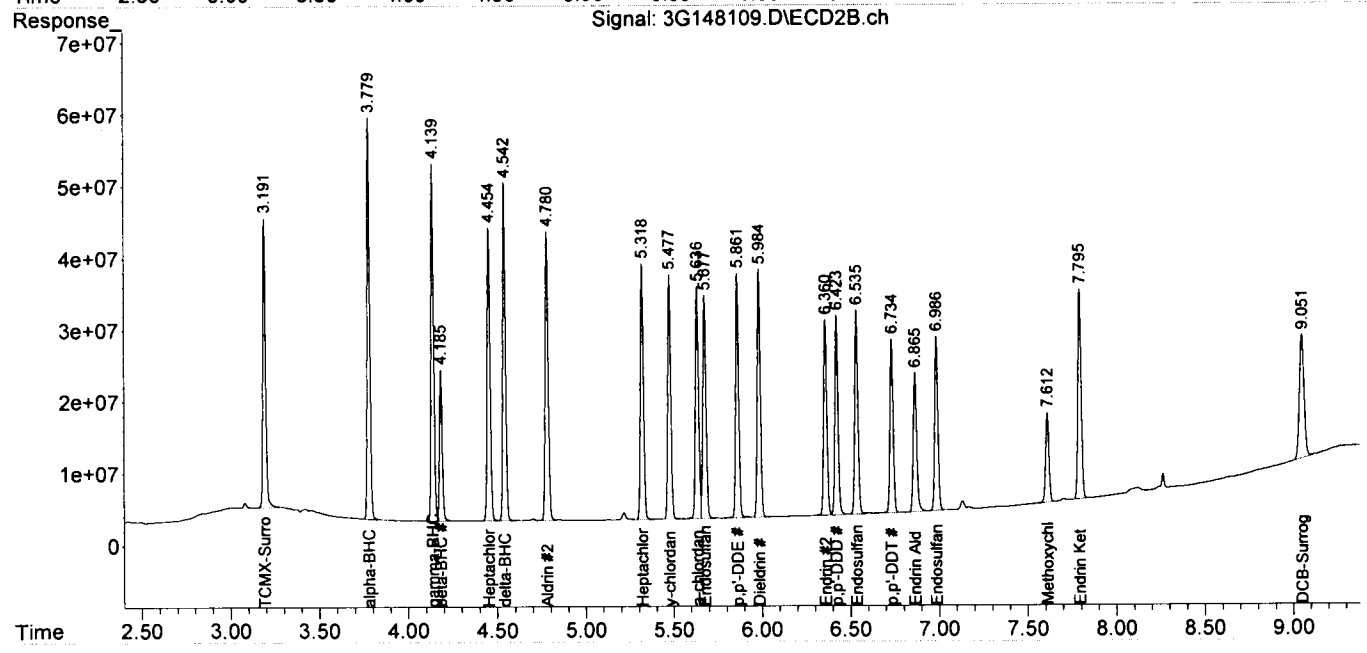
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0602-23\
Data File : 3G148109.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 16:37
Operator : AH//PR/KM
Sample : CAL PEST@50PPB
Misc : S,PEST
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:02:47 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P
Signal #1 Info : .32
Signal #2 Phase: db-17
Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0602-23\
Data File : 3G148110.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 16:49
Operator : AH//PR/KM
Sample : CAL PEST@100PPB
Misc : S,PEST
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:05:43 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.159	3.191	1031.3E6	870.9E6	105.388m	97.154m
2)alpha-BHC	3.923	3.779	1465.4E6	1214.0E6	106.553m	100.195m
3)gamma-BHC	4.279	4.139	1328.7E6	1090.1E6	109.182m	100.180
4)beta-BHC	4.938	4.185	560.7E6	462.9E6	100.055	88.998
5)Heptachlor	4.480	4.455	1294.6E6	1007.7E6	130.892	126.738
6)delta-BHC	5.192	4.542	1283.3E6	1062.6E6	108.500	97.624
7)Aldrin	4.744	4.781	1265.7E6	1011.3E6	107.592	98.948
8)Heptachlor Epoxid	5.377	5.319	1129.1E6	890.3E6	108.679	96.266
9)y-chlordane	5.688	5.478	1118.8E6	881.8E6	102.127	95.019
10)a-chlordane	5.739	5.636	1090.1E6	856.0E6	104.355	95.095
11)Endosulfan I	5.650	5.678	1017.9E6	820.0E6	112.594	93.953
12)p,p'-DDE	5.808	5.862	1106.4E6	863.7E6	109.233	98.660
13)Dieldrin	6.003	5.984	1166.0E6	910.4E6	109.963	96.528
14)Endrin	6.205	6.361	948.3E6	723.3E6	150.177	123.652
15)p,p'-DDD	6.585	6.425	901.3E6	726.7E6	97.267m	94.102
16)Endosulfan II	6.675	6.536	959.1E6	753.8E6	106.794	93.221
17)p,p'-DDT	6.751	6.734	763.8E6	655.1E6	153.668	113.467m#
18)Endrin Aldehyde	7.090	6.865	652.1E6	562.0E6	107.711	86.594
19)Endosulfan Sulfat	7.400	6.987	858.0E6	650.8E6	106.752	91.182
20)Methoxychlor	7.340	7.612	404.3E6	342.9E6	144.019	114.638m
21)Endrin Ketone	7.806	7.796	979.8E6	811.7E6	107.649	91.272
22)DCB-Surrogate	8.581	9.053	930.2E6	659.4E6	100.609m	85.951m
23)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

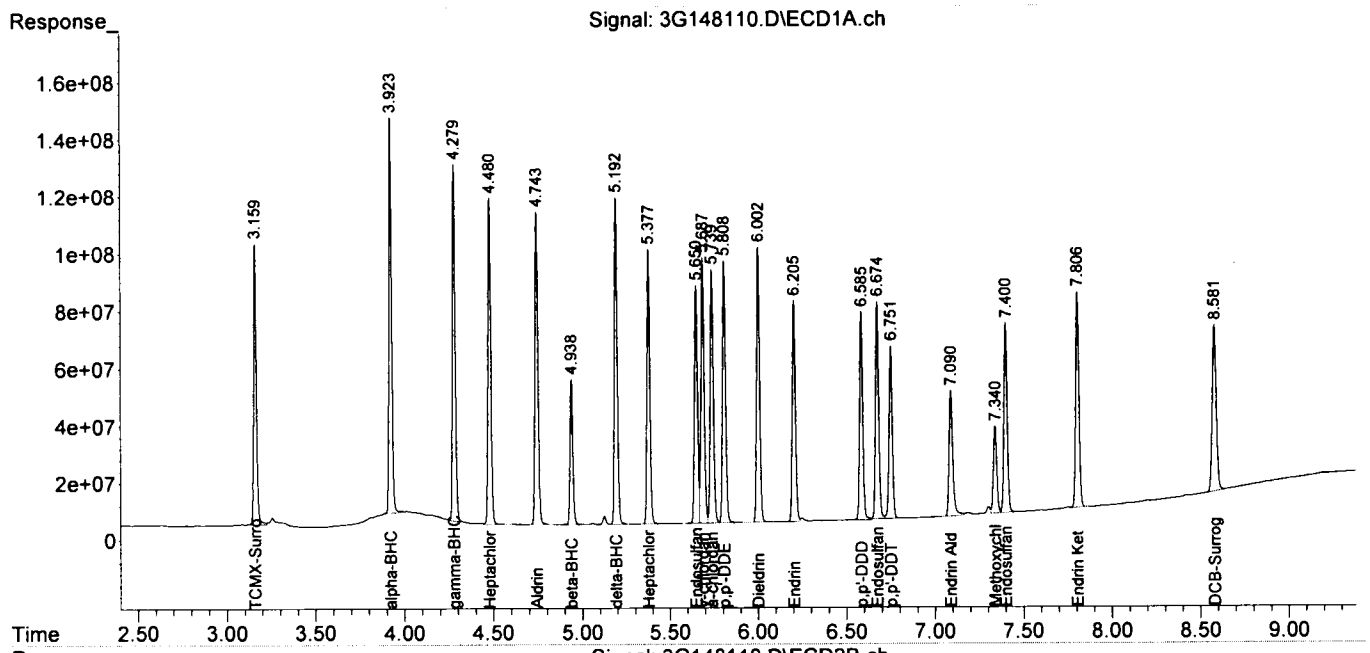
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

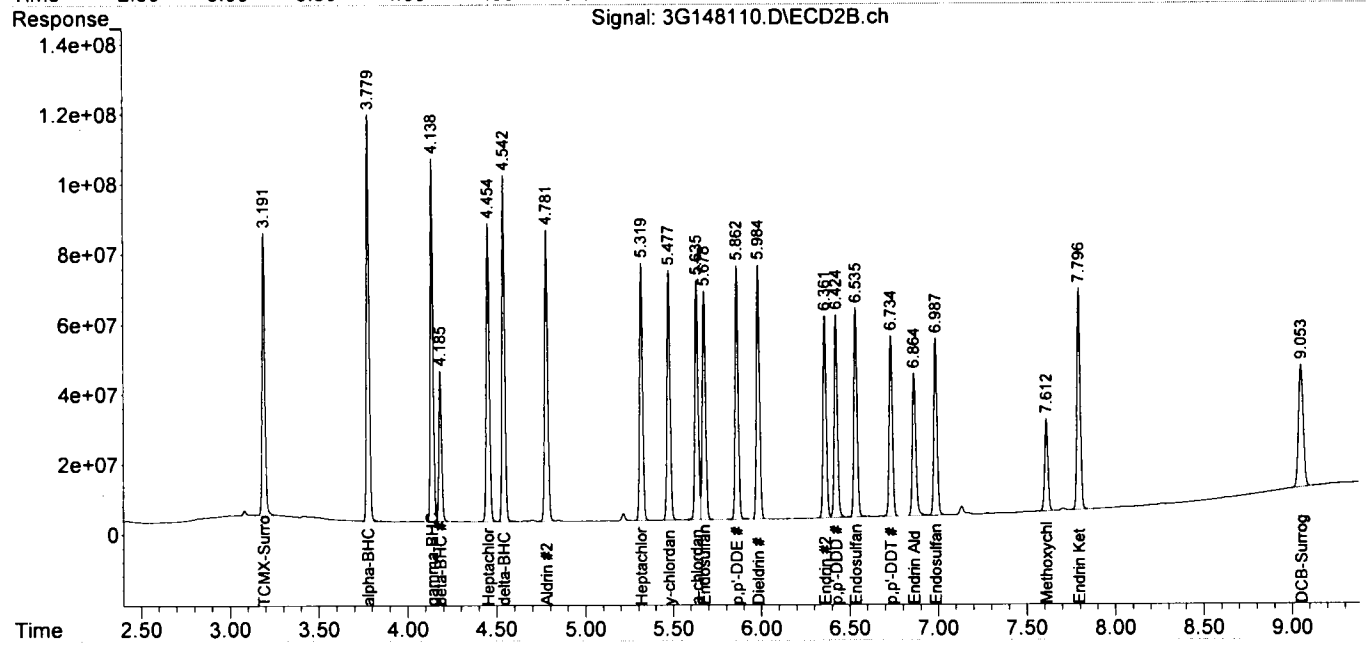
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0602-23\
Data File : 3G148110.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 16:49
Operator : AH//PR/KM
Sample : CAL PEST@100PPB
Misc : S,PEST
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:05:43 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0602-23\
Data File : 3G148111.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 17:01
Operator : AH//PR/KM
Sample : CAL PEST@200PPB
Misc : S,PEST
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:08:03 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.159	3.191	2040.4E6	1737.5E6	208.504m	193.837m
2)alpha-BHC	3.923	3.781	3004.6E6	2503.0E6	218.471m	206.588
3)gamma-BHC	4.280	4.139	2803.6E6	2229.4E6	230.375	204.877
4)beta-BHC	4.938	4.185	1127.4E6	942.0E6	201.178	181.125
5)Heptachlor	4.480	4.455	2613.9E6	2072.8E6	264.284	260.702
6)delta-BHC	5.191	4.542	2627.3E6	2190.2E6	222.129	201.214
7)Aldrin	4.743	4.781	2577.0E6	2082.5E6	219.058	203.754
8)Heptachlor Epoxid	5.377	5.319	2301.4E6	1837.2E6	221.522	198.654
9)y-chlordane	5.688	5.477	2279.1E6	1821.4E6	208.042	196.257
10)a-chlordane	5.739	5.636	2216.7E6	1758.0E6	212.212	195.296
11)Endosulfan I	5.649	5.677	2070.3E6	1693.8E6	229.007	194.065
12)p,p'-DDE	5.807	5.862	2275.2E6	1810.5E6	224.621	206.800
13)Dieldrin	6.002	5.984	2390.4E6	1908.5E6	225.424	202.353
14)Endrin	6.204	6.360	1965.2E6	1524.5E6	311.221	260.638m
15)p,p'-DDD	6.584	6.423	1836.4E6	1516.2E6	198.171	196.334
16)Endosulfan II	6.674	6.535	1946.1E6	1561.5E6	216.705	193.097
17)p,p'-DDT	6.750	6.734	1631.5E6	1410.3E6	281.127	226.193
18)Endrin Aldehyde	7.090	6.863	1323.3E6	1159.7E6	218.569	178.700m
19)Endosulfan Sulfat	7.400	6.986	1742.8E6	1328.2E6	216.846	186.078
20)Methoxychlor	7.340	7.611	858.2E6	724.4E6	268.757	225.531m
21)Endrin Ketone	7.806	7.795	2019.5E6	1678.3E6	221.866	188.705
22)DCB-Surrogate	8.581	9.051	1821.5E6	1320.7E6	196.998m	172.132m
23)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

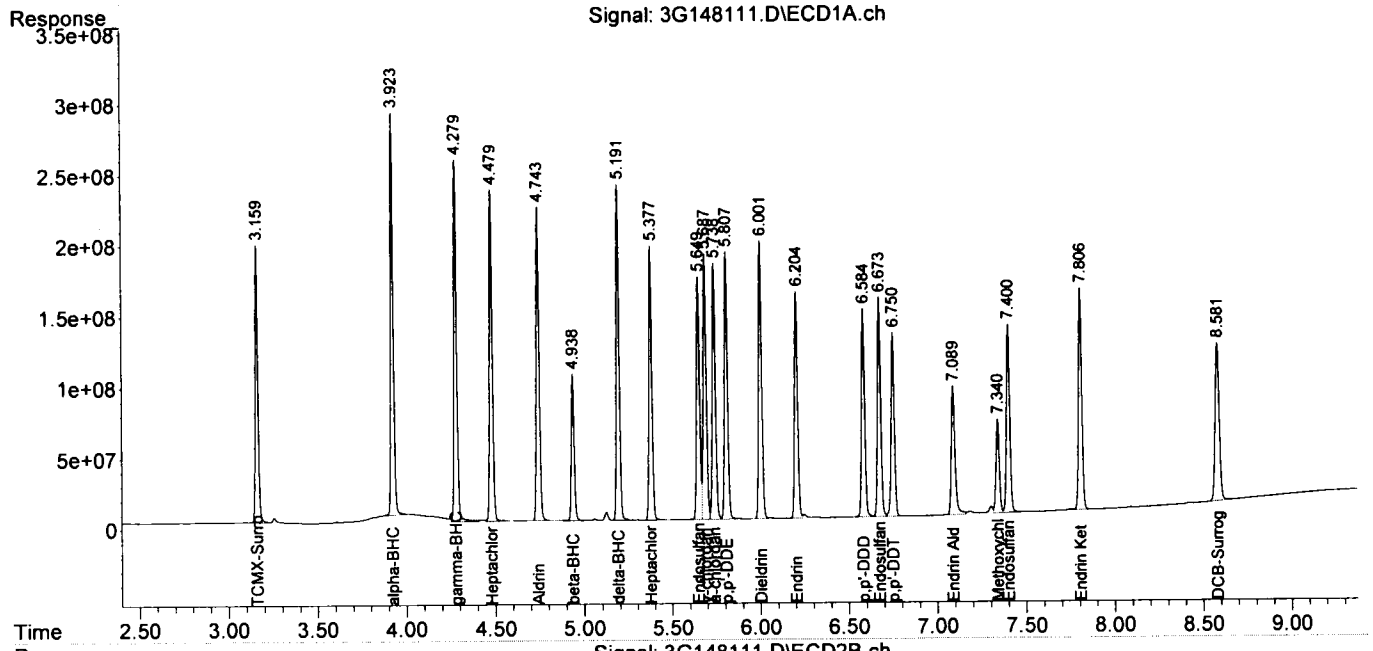
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

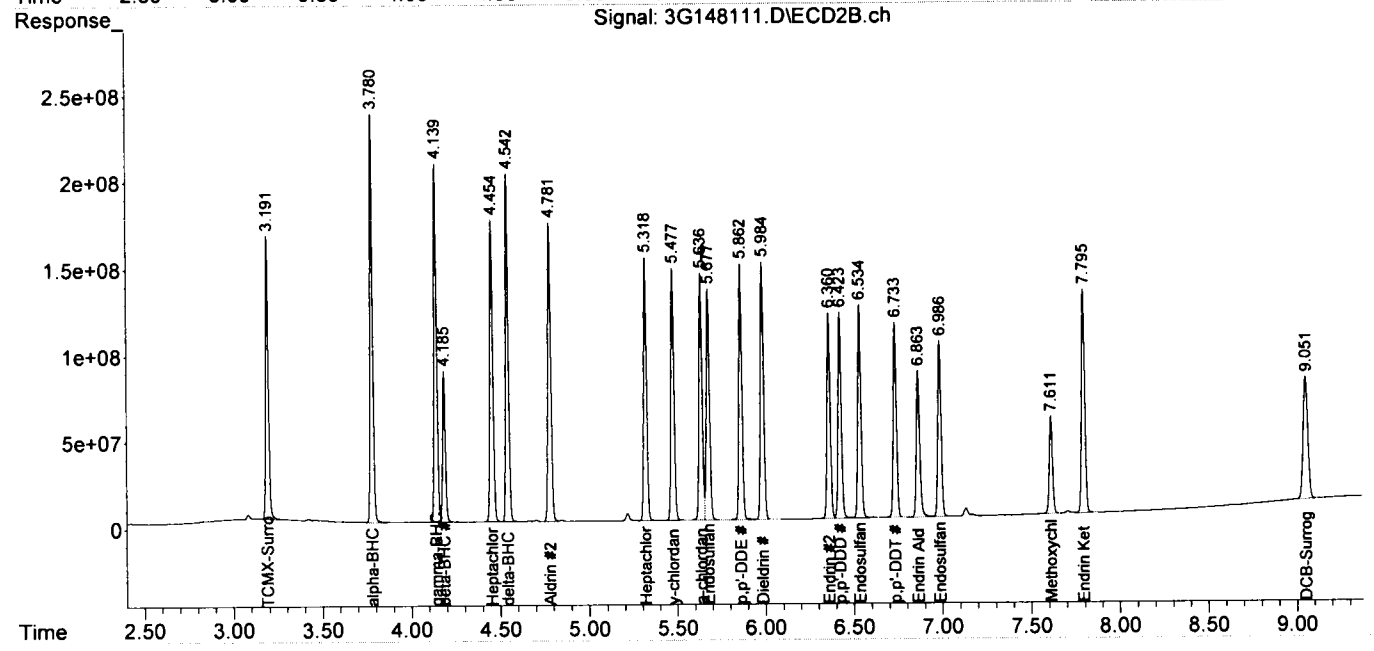
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0602-23\
Data File : 3G148111.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 17:01
Operator : AH//PR/KM
Sample : CAL PEST@200PPB
Misc : S,PEST
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:08:03 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P
Signal #1 Info : .32
Signal #2 Phase: db-17
Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0602-23\
Data File : 3G148112.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 17:13
Operator : AH//PR/KM
Sample : CAL PEST@400PPB
Misc : S,PEST
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:10:47 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

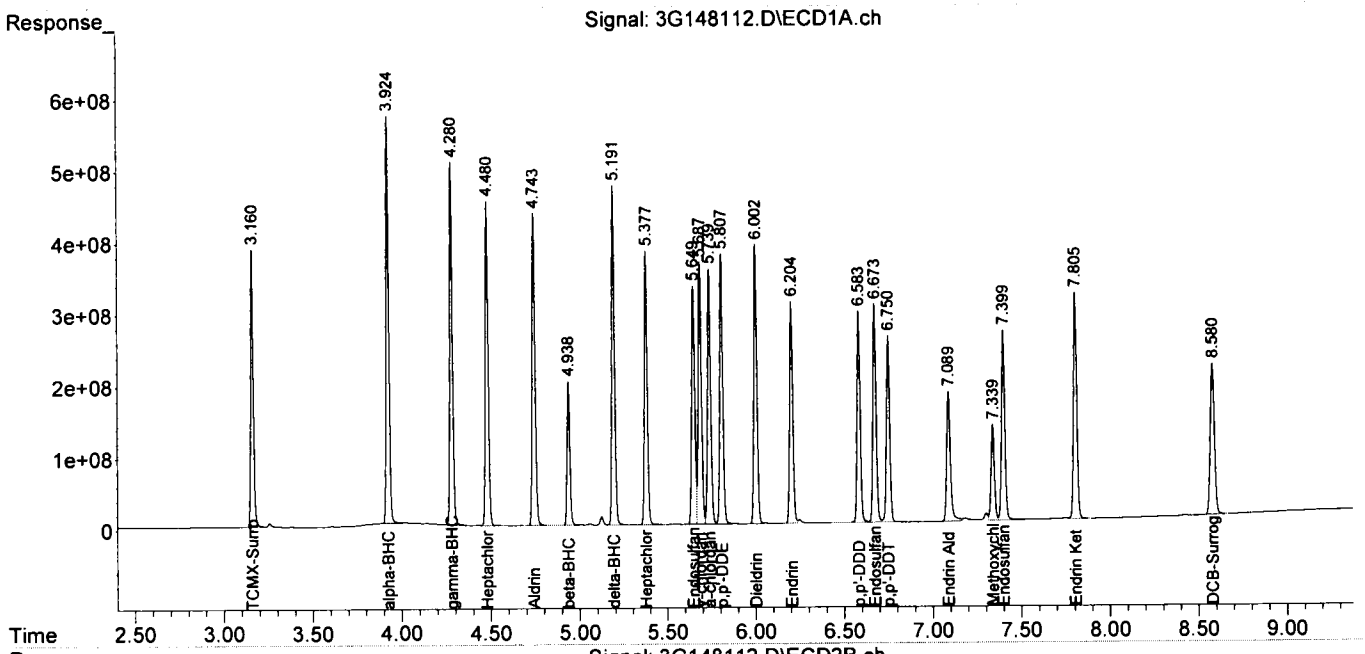
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.160	3.191	4005.4E6	3343.3E6	409.289m	372.977m
2)alpha-BHC	3.924	3.781	5927.7E6	4891.4E6	431.025m	403.713
3)gamma-BHC	4.280	4.140	5377.8E6	4374.8E6	441.904m	402.035
4)beta-BHC	4.939	4.186	2200.3E6	1826.6E6	392.653	351.209
5)Heptachlor	4.481	4.455	5132.5E6	4067.0E6	518.928	511.512
6)delta-BHC	5.192	4.543	5246.7E6	4333.3E6	443.585	398.095
7)Aldrin	4.744	4.781	5088.5E6	4075.5E6	432.551	398.759
8)Heptachlor Epoxid	5.377	5.319	4517.2E6	3595.1E6	434.802	388.731
9)y-chlordane	5.687	5.478	4499.6E6	3571.4E6	410.739	384.816
10)a-chlordane	5.739	5.636	4356.9E6	3452.9E6	417.096	383.584
11)Endosulfan I	5.650	5.677	4074.9E6	3327.0E6	450.740	381.189
12)p,p'-DDE	5.808	5.862	4507.7E6	3569.9E6	445.019	407.776
13)Dieldrin	6.002	5.984	4738.4E6	3766.0E6	446.857	399.303
14)Endrin	6.204	6.360	3800.1E6	2993.1E6	601.807	511.710
15)p,p'-DDD	6.584	6.423	3650.0E6	3012.4E6	393.880	390.085
16)Endosulfan II	6.673	6.535	3849.0E6	3086.9E6	428.597	381.726
17)p,p'-DDT	6.750	6.734	3311.4E6	2848.8E6	470.357	408.130
18)Endrin Aldehyde	7.090	6.864	2683.6E6	2340.6E6	443.237	360.670
19)Endosulfan Sulfat	7.400	6.986	3501.2E6	2658.8E6	435.640	372.501
20)Methoxychlor	7.339	7.611	1739.2E6	1451.6E6	459.639	406.463m
21)Endrin Ketone	7.806	7.795	4065.2E6	3374.0E6	446.620	379.372
22)DCB-Surrogate	8.580	9.051	3500.5E6	2601.6E6	378.590m	339.087m
23)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

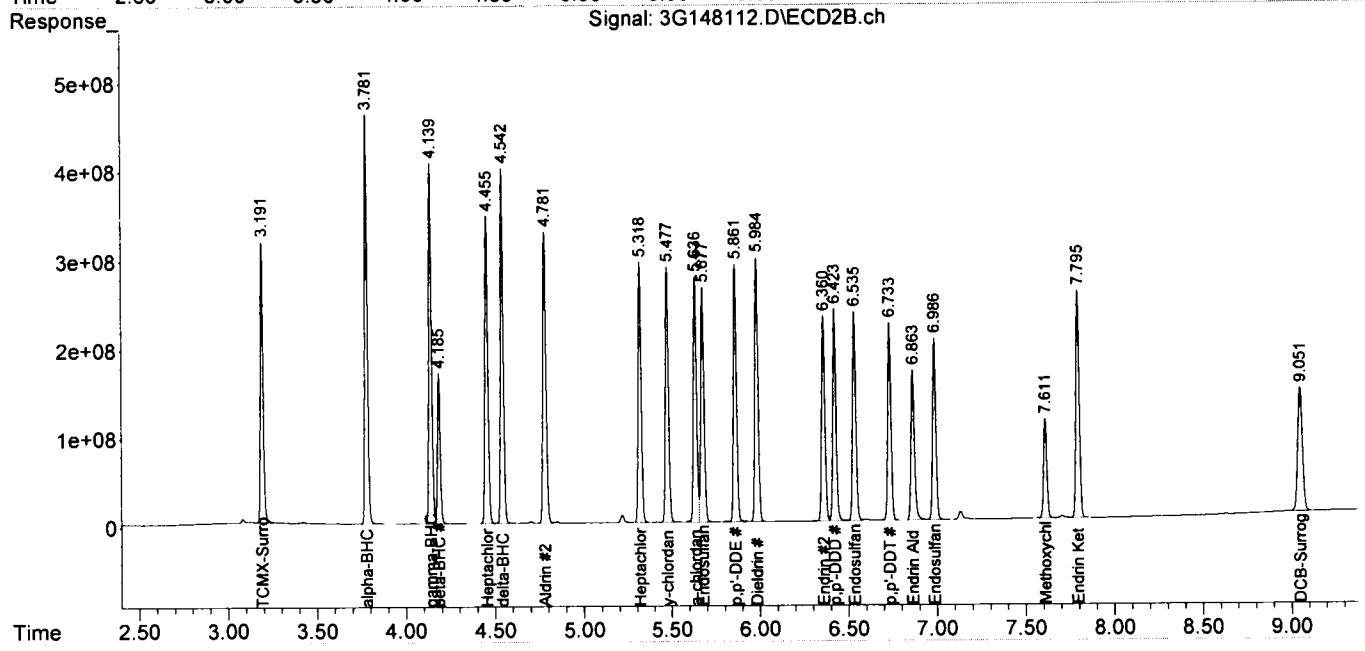
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2023\GC_3\Data\0602-23\
Data File : 3G148112.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 17:13
Operator : AH//PR/KM
Sample : CAL PEST@400PPB
Misc : S,PEST
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:10:47 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P
Signal #1 Info : .32
Signal #2 Phase: db-17
Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0602-23\
Data File : 3G148113.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 17:24
Operator : AH//PR/KM
Sample : CAL CHLORO@100PPB
Misc : S,PEST
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:20:20 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:18:45 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.158	3.191	982.7E6	833.7E6	100.419m	93.007m
2)alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)gamma-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)Heptachlor Epoxid	0.000	0.000	0	0	N.D. d	N.D. d
9)y-chlordane	0.000	0.000	0	0	N.D. d	N.D. d
10)a-chlordane	0.000	0.000	0	0	N.D. d	N.D. d
11)Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
12)p,p'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)p,p'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)Endosulfan II	0.000	0.000	0	0	N.D. d	N.D. d
17)p,p'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)Endrin Aldehyde	0.000	0.000	0	0	N.D. d	N.D. d
19)Endosulfan Sulfat	0.000	0.000	0	0	N.D. d	N.D. d
20)Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)Endrin Ketone	0.000	0.000	0	0	N.D. d	N.D. d
22)DCB-Surrogate	8.580	9.053	892.2E6	640.6E6	96.494m	83.499m
23)Chlordane (Techni	4.478	4.454	62937543	49345079	135.458m	136.534
24)Chlordane (Techni	5.687	5.477	111.4E6	102.3E6	98.432	93.752m
25)Chlordane (Techni	5.740	5.635	158.7E6	71022679	95.732	83.559
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

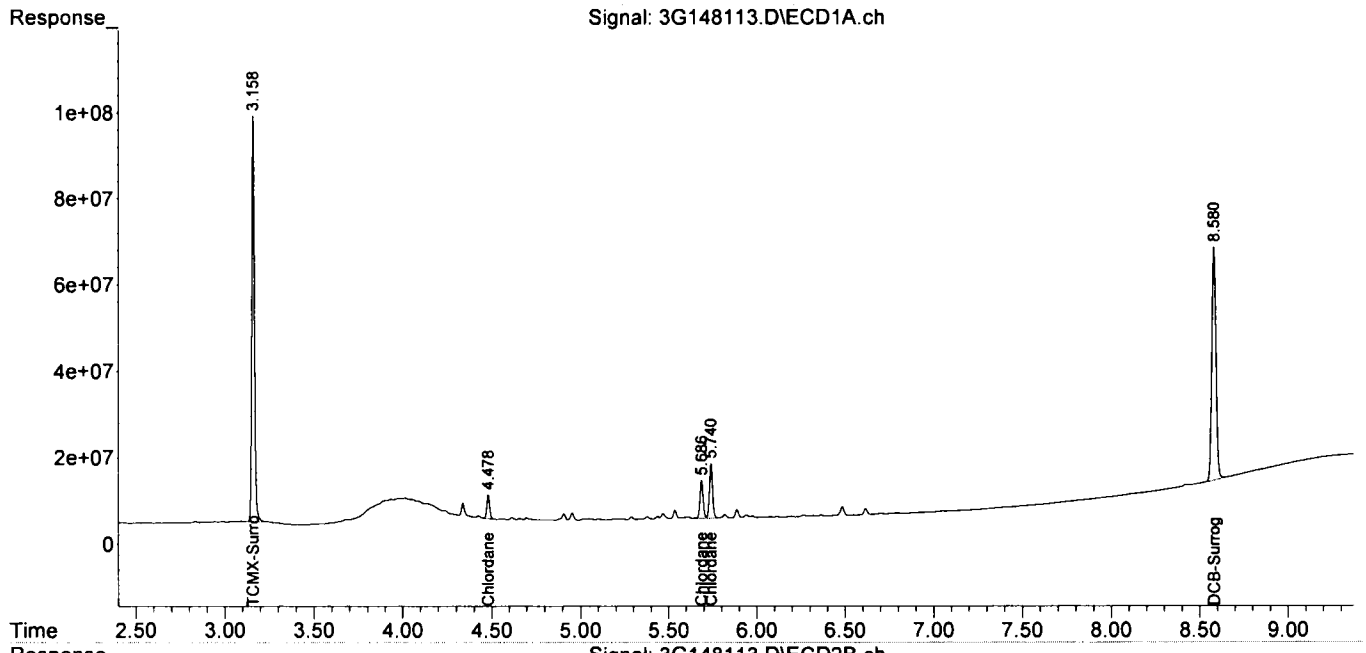
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

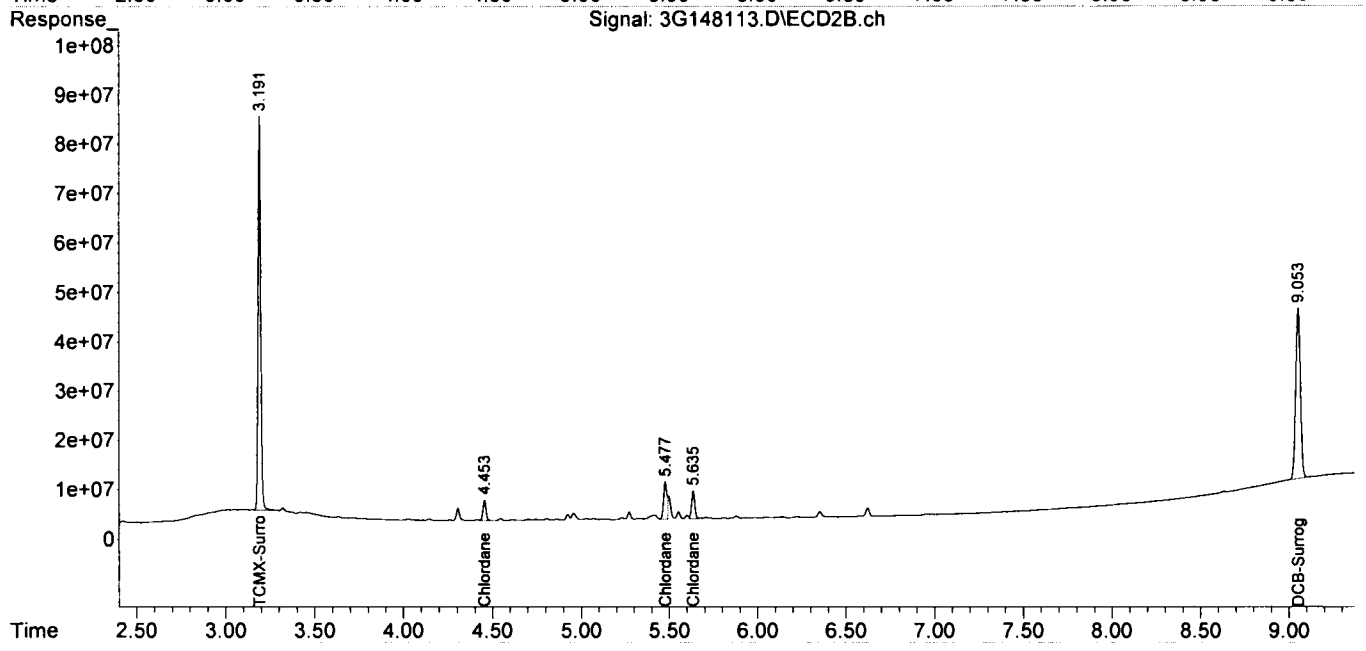
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0602-23\
Data File : 3G148113.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 17:24
Operator : AH//PR/KM
Sample : CAL CHLORO@100PPB
Misc : S,PEST
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:20:20 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:18:45 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_3\DATA\0602-23\
Data File : 3G148114.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 17:36
Operator : AH//PR/KM
Sample : TOX@50PPB
Misc : S,PEST
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:36:15 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
26)Toxaphene {1}	6.023	6.081	5242372	3049998	53.194m	47.199m
27)Toxaphene {2}	6.316	6.771	7937798	4835856	60.895m	46.120m
28)Toxaphene {3}	6.602	7.240	6168824	2228492	62.606	45.071m#
29)Toxaphene {4}	6.967	7.388	5433847	5453146	46.214m	45.340m
30)Toxaphene {5}	7.332	7.450	6304042	3999706	45.215m	47.108m

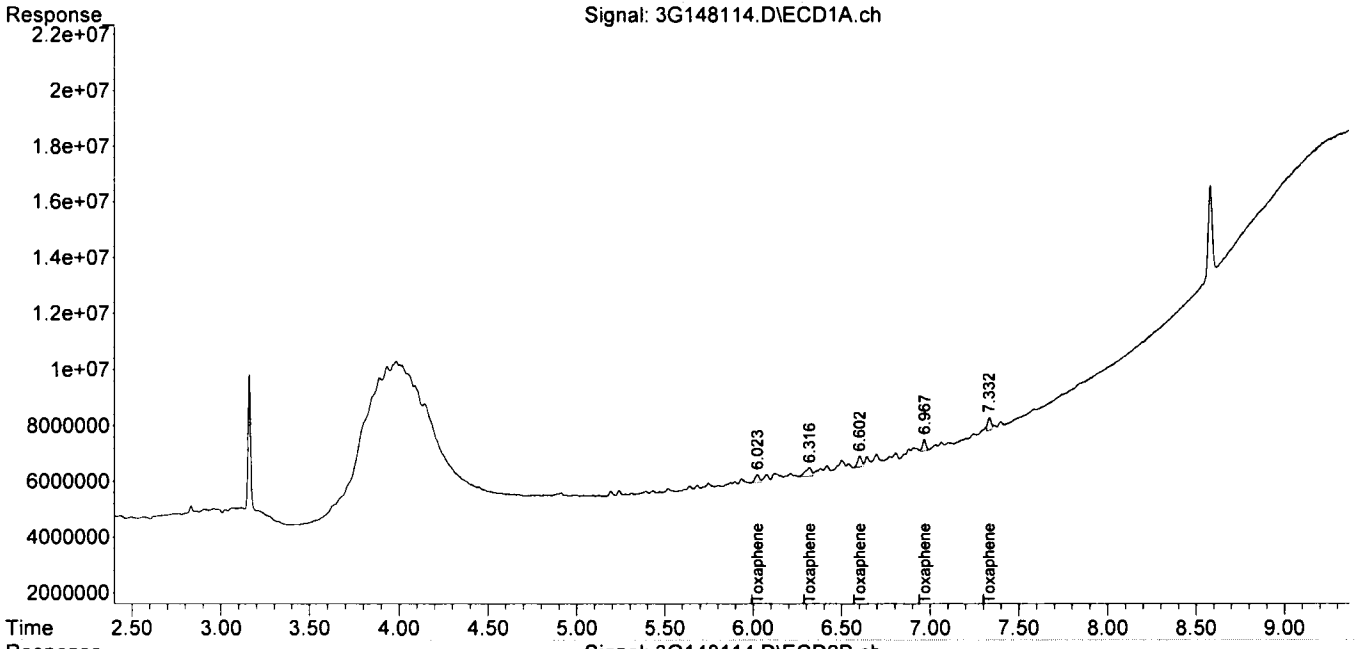
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

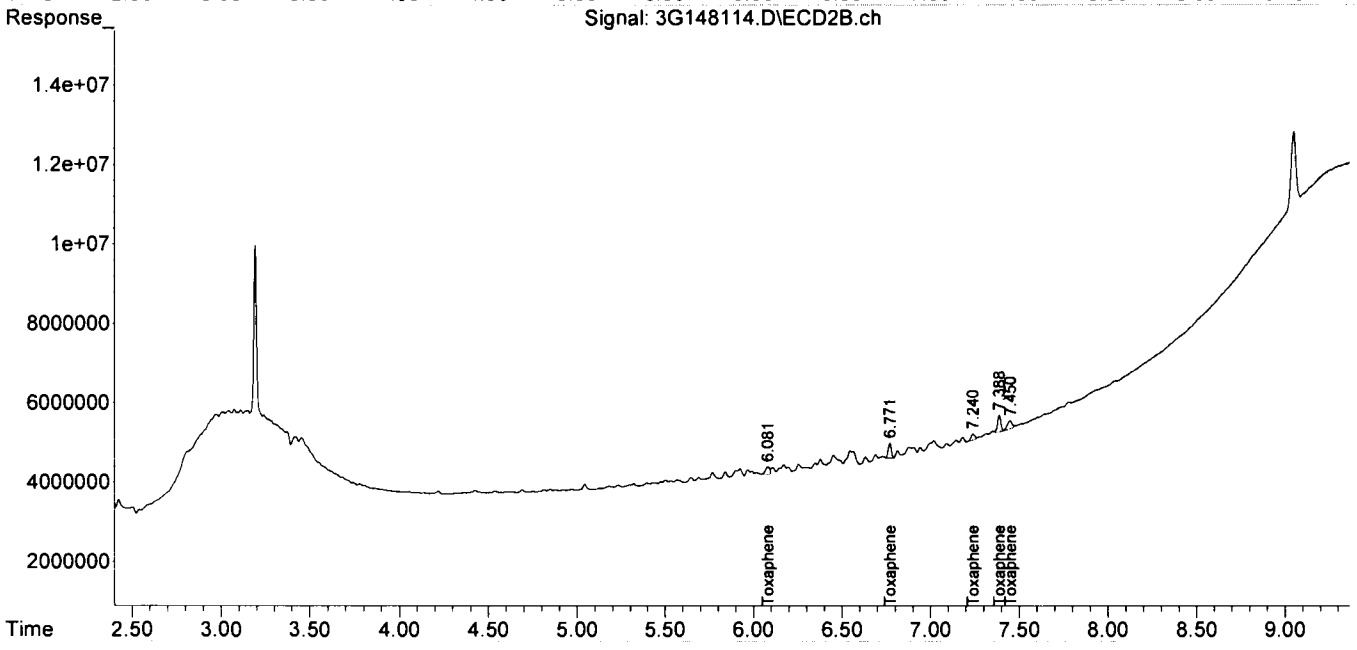
Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_3\DATA\0602-23\
Data File : 3G148114.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 17:36
Operator : AH//PR/KM
Sample : TOX@50PPB
Misc : S,PEST
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:36:15 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_3\DATA\0602-23\
Data File : 3G148115.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 17:48
Operator : AH//PR/KM
Sample : TOX@200PPB
Misc : S,PEST
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:28:14 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

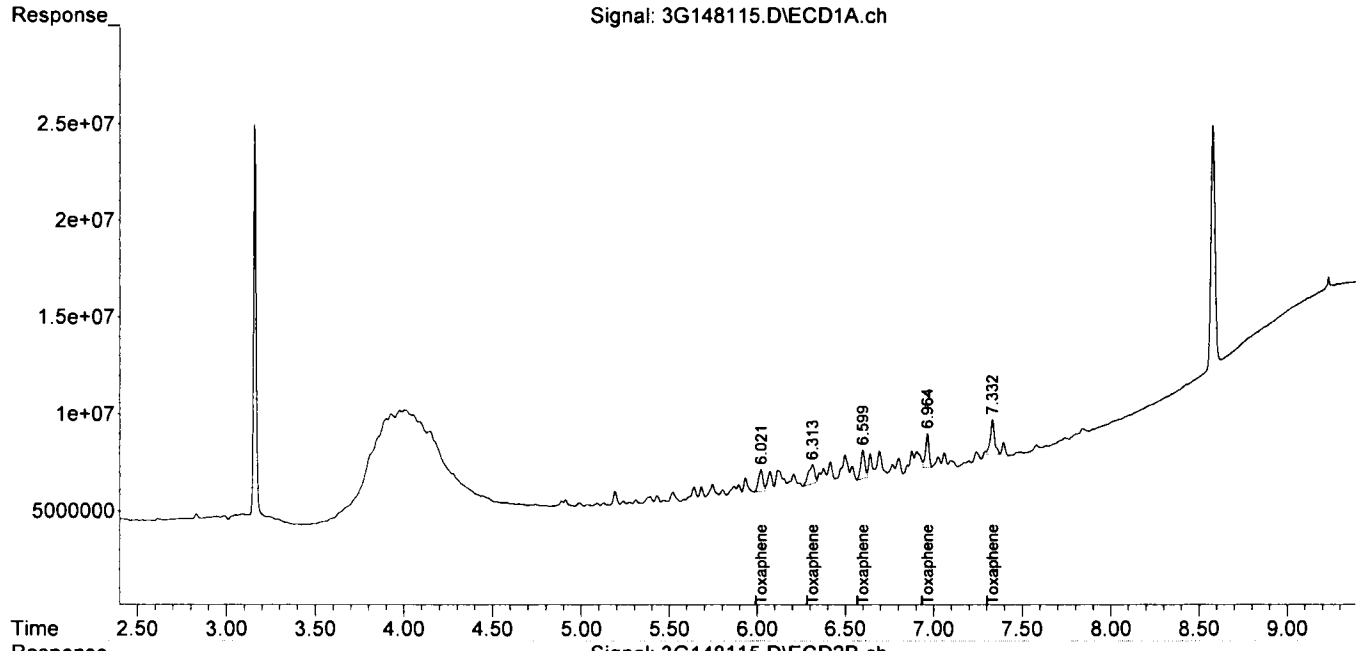
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
26)Toxaphene {1}	6.021	6.079	20442007	12444819	207.424m	192.585m
27)Toxaphene {2}	6.313	6.769	24938777	22238715	191.320m	212.092m
28)Toxaphene {3}	6.599	7.238	24354338	11917802	247.168m	241.037m
29)Toxaphene {4}	6.964	7.387	24225344	24674774	206.033m	205.158m
30)Toxaphene {5}	7.332	7.446	31250317	16863957	224.138m	198.623m

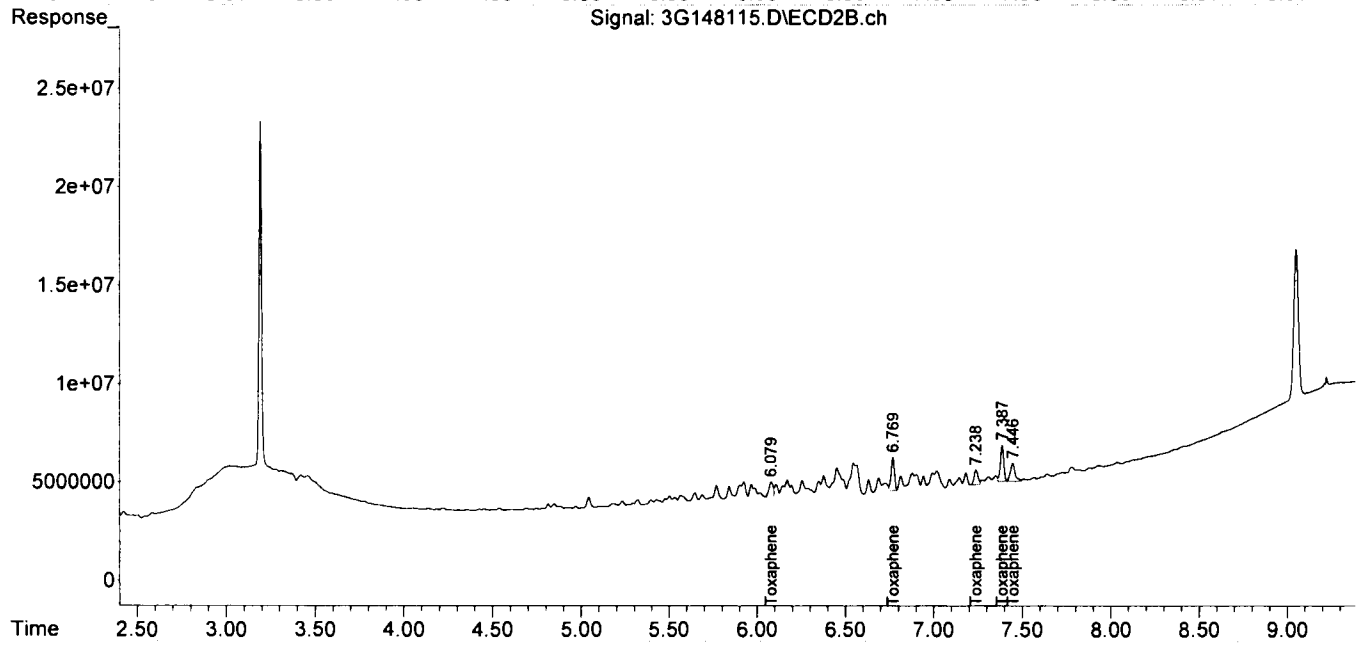
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\GCDATA\2023\GC_3\DATA\0602-23\
Data File : 3G148115.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 17:48
Operator : AH//PR/KM
Sample : TOX@200PPB
Misc : S,PEST
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:28:14 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_3\DATA\0602-23\
Data File : 3G148116.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 18:00
Operator : AH//PR/KM
Sample : TOX@500PPB
Misc : S,PEST
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:29:33 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
26)Toxaphene {1}	6.021	6.080	48413162	32494481	491.245m	502.855m
27)Toxaphene {2}	6.314	6.769	68093844	54500699	522.387m	519.776m
28)Toxaphene {3}	6.600	7.239	59694610	28159521	605.831m	569.525m
29)Toxaphene {4}	6.964	7.386	62088080	66163016	528.050m	550.113m
30)Toxaphene {5}	7.332	7.446	85094798	43021590	610.329m	506.708m

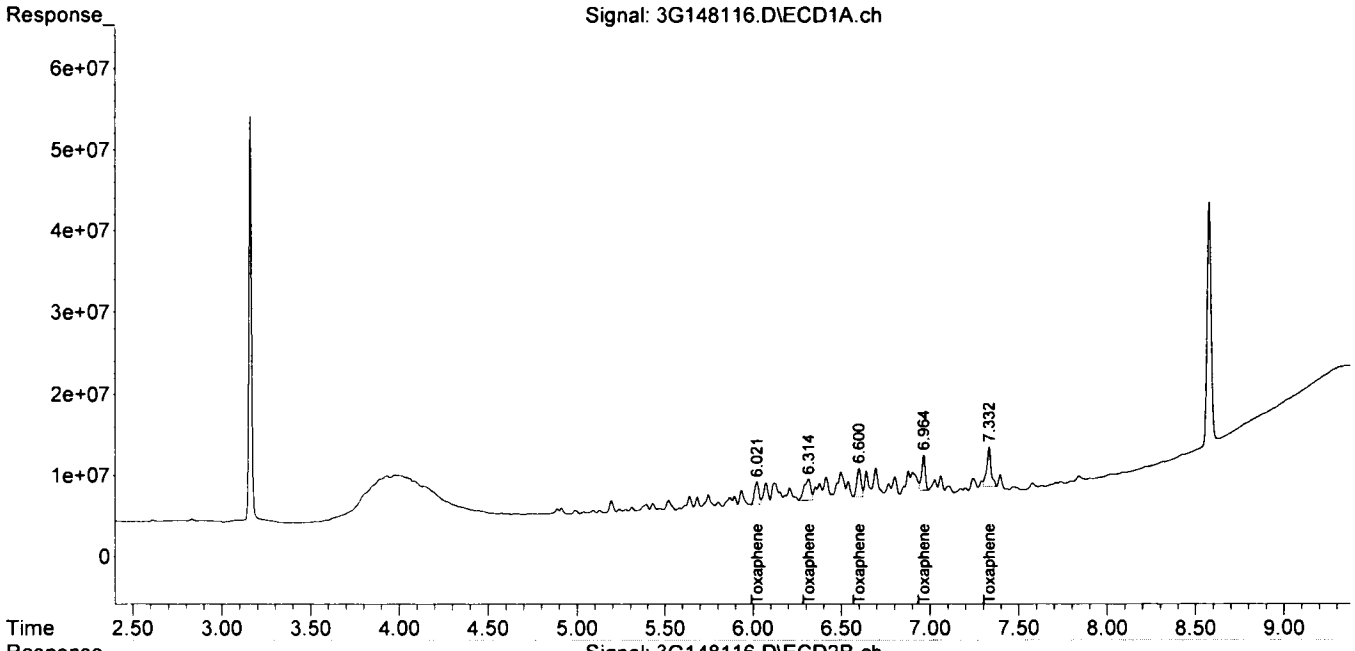
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

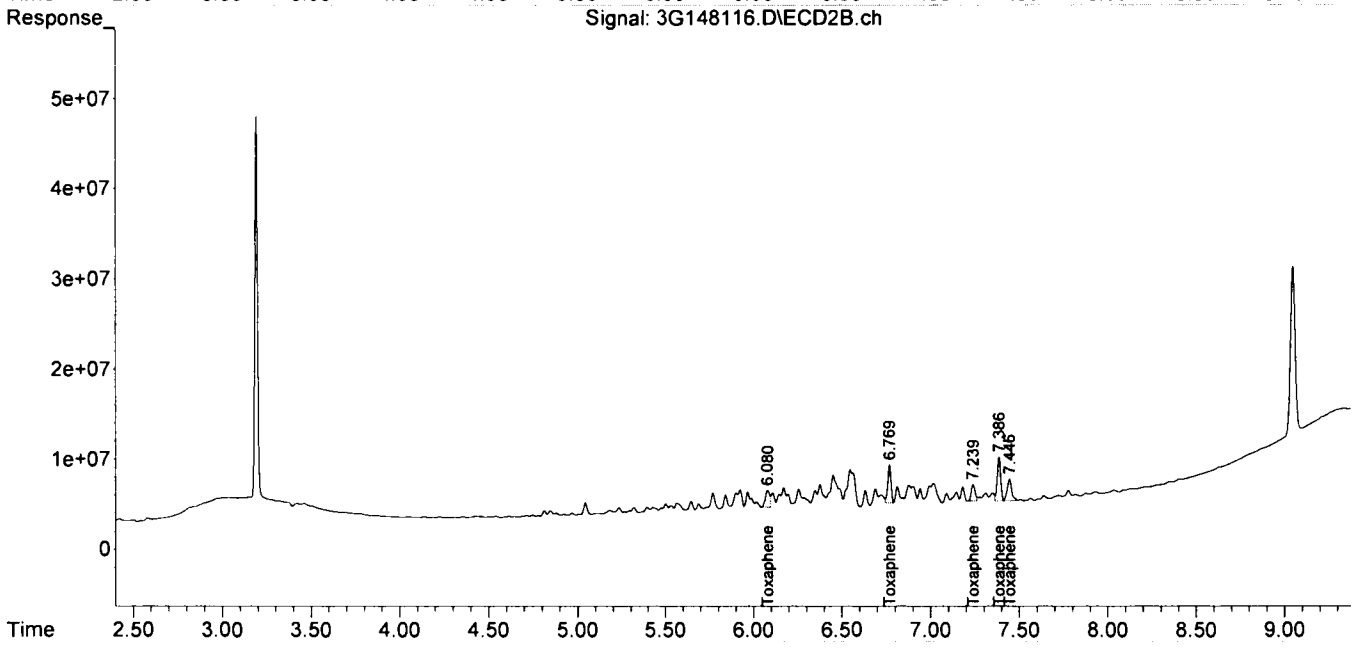
Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_3\DATA\0602-23\
Data File : 3G148116.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 18:00
Operator : AH//PR/KM
Sample : TOX@500PPB
Misc : S,PEST
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:29:33 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_3\DATA\0602-23\
Data File : 3G148117.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 18:12
Operator : AH//PR/KM
Sample : TOX@1000PPB
Misc : S,PEST
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:30:48 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

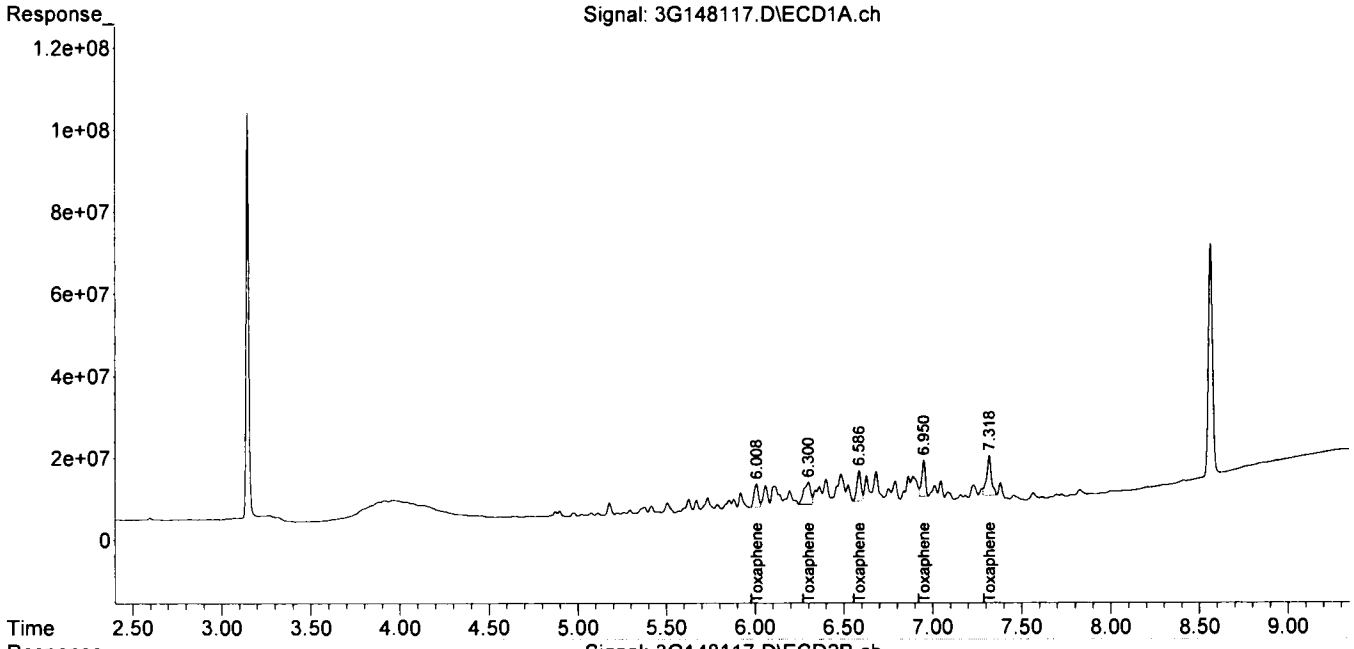
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
26)Toxaphene {1}	6.008	6.066	97771171	65020393	992.078m	1006.196m
27)Toxaphene {2}	6.300	6.755	143.4E6	111.8E6	1100.462m	1066.201m
28)Toxaphene {3}	6.586	7.225	120.3E6	59717424	1220.854m	1207.781m
29)Toxaphene {4}	6.950	7.372	128.4E6	140.9E6	1091.866m	1171.863m
30)Toxaphene {5}	7.318	7.433	186.3E6	92788541	1336.205m	1092.862m

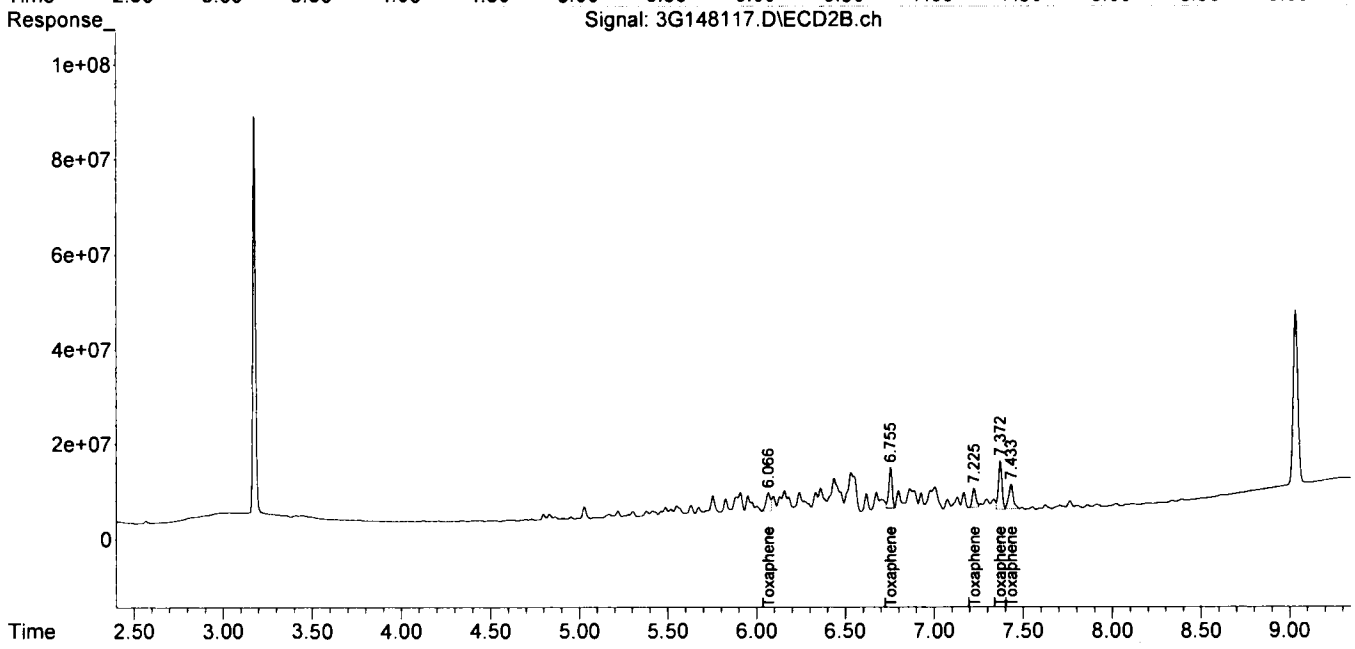
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\GCDATA\2023\GC_3\DATA\0602-23\
Data File : 3G148117.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 18:12
Operator : AH//PR/KM
Sample : TOX@1000PPB
Misc : S,PEST
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:30:48 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_3\DATA\0602-23\
Data File : 3G148118.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 18:23
Operator : AH//PR/KM
Sample : TOX@2000PPB
Misc : S,PEST
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:32:52 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

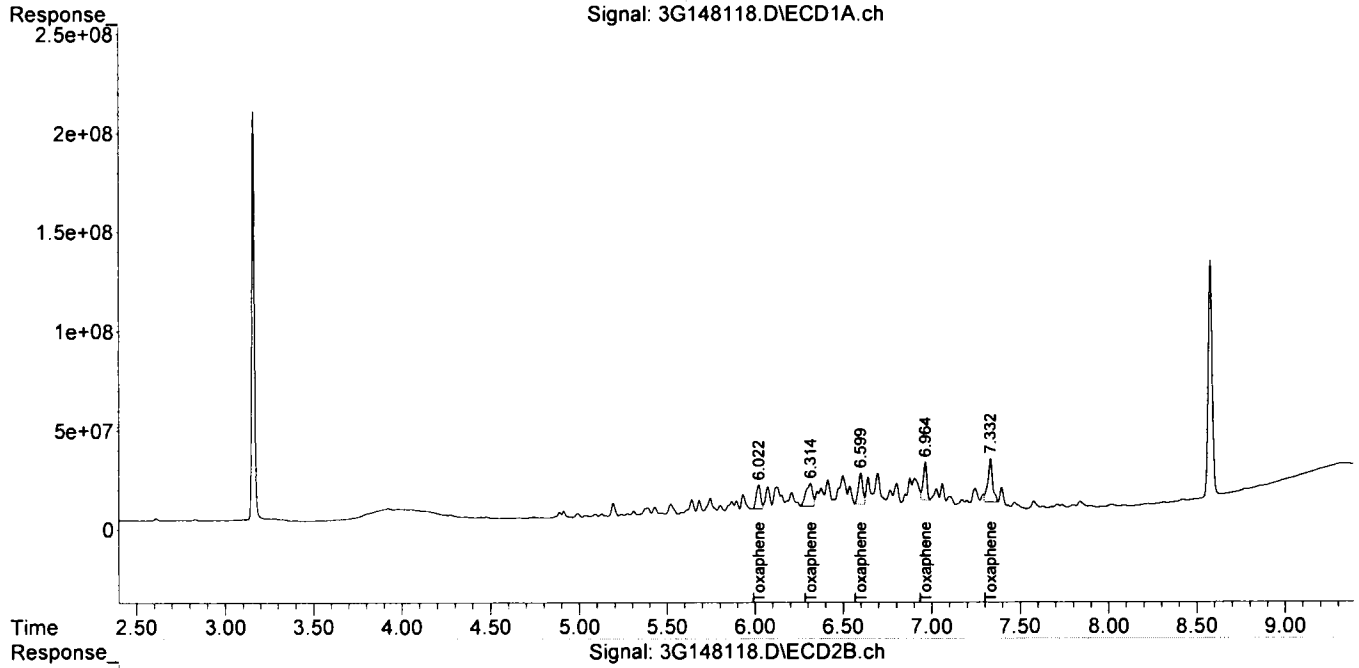
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
26)Toxaphene {1}	6.022	6.079	206.9E6	139.1E6	2098.932m	2152.339m
27)Toxaphene {2}	6.314	6.770	303.2E6	242.7E6	2325.877m	2315.012m
28)Toxaphene {3}	6.599	7.239	270.5E6	132.2E6	2744.932m	2673.513m
29)Toxaphene {4}	6.964	7.386	283.0E6	306.7E6	2406.966m	2549.679m
30)Toxaphene {5}	7.332	7.447	417.7E6	217.1E6	2996.195m	2557.273m

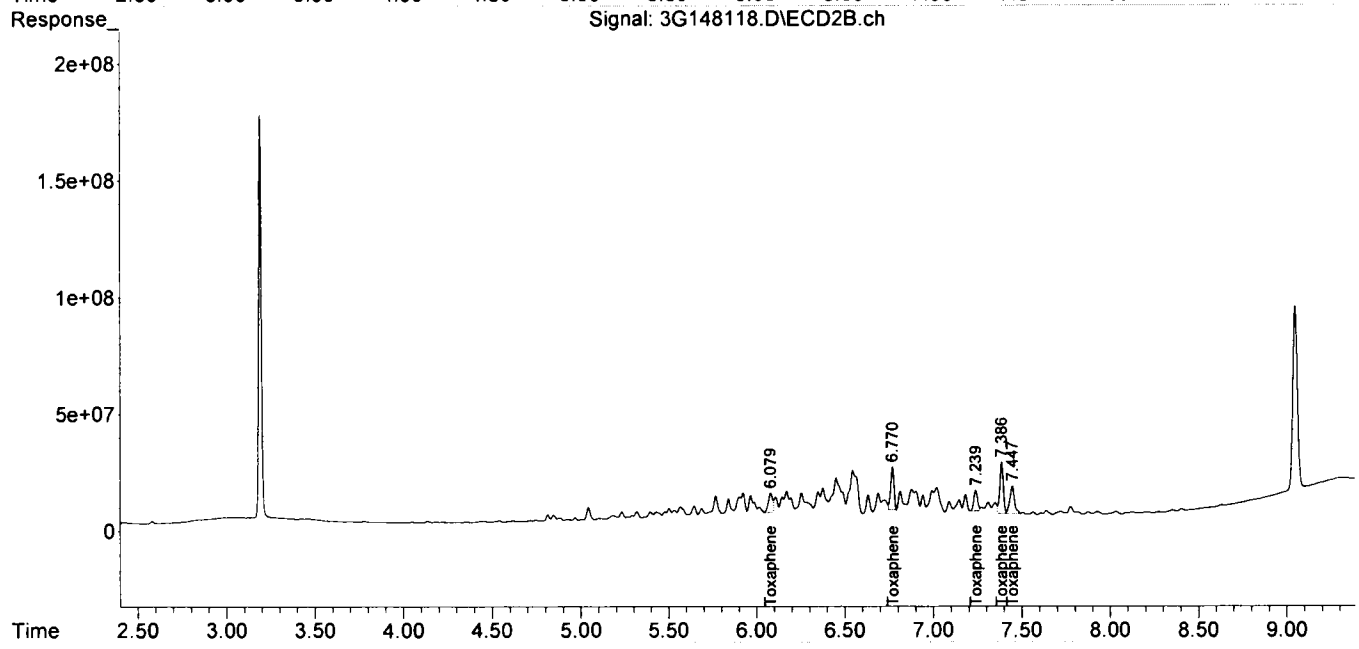
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\GCDATA\2023\GC_3\DATA\0602-23\
Data File : 3G148118.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 18:23
Operator : AH//PR/KM
Sample : TOX@2000PPB
Misc : S,PEST
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:32:52 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_3\DATA\0602-23\
Data File : 3G148119.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 18:35
Operator : AH//PR/KM
Sample : TOX@4000PPB
Misc : S,PEST
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:24:50 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
26)Toxaphene {1}	6.021	6.080	393.2E6	281.4E6	3989.967m	4354.431m
27)Toxaphene {2}	6.313	6.769	598.5E6	472.8E6	4591.670m	4508.711m
28)Toxaphene {3}	6.599	7.239	489.3E6	273.0E6	4965.907m	5522.267m
29)Toxaphene {4}	6.964	7.387	545.6E6	609.6E6	4640.083m	5068.661m
30)Toxaphene {5}	7.331	7.448	817.9E6	438.3E6	5866.060m	5162.534m

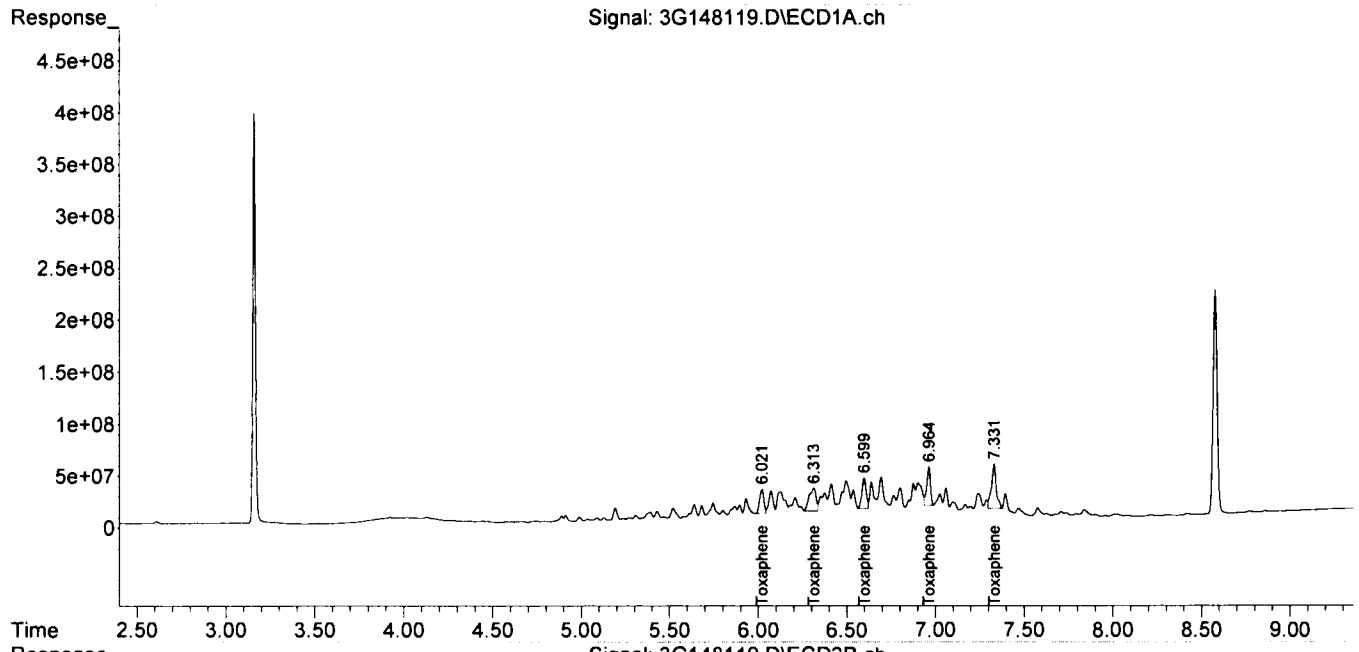
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

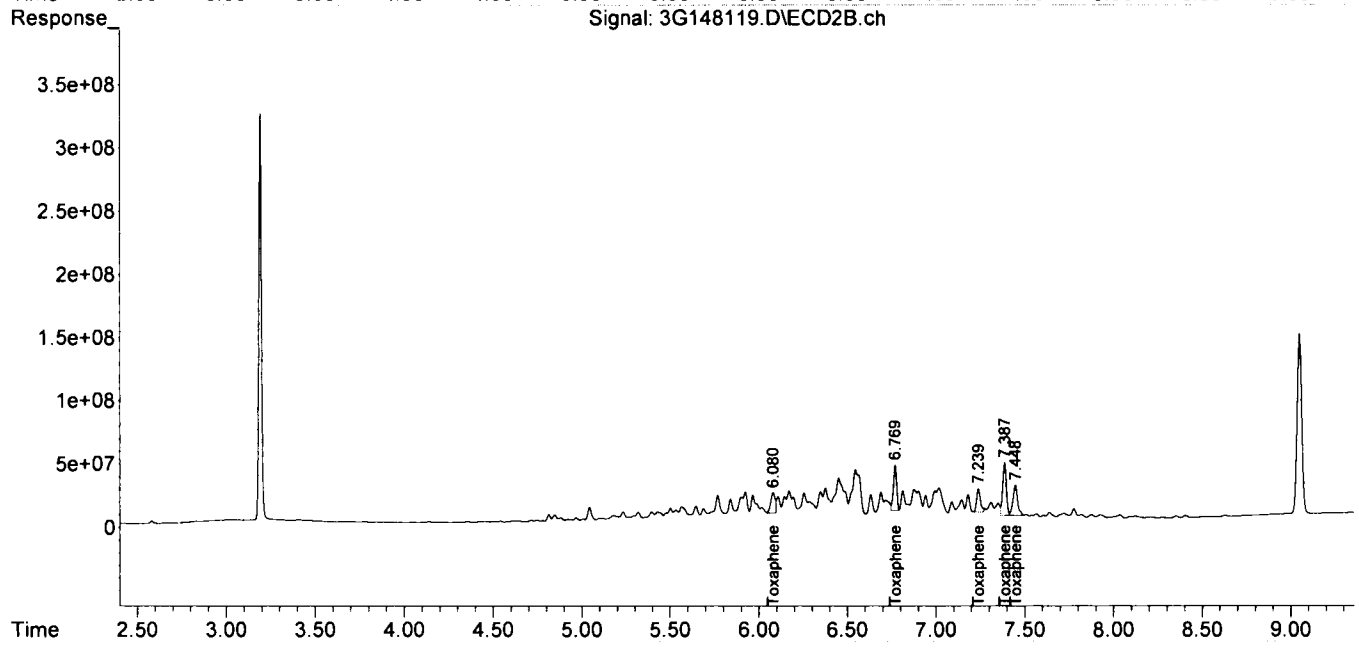
Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_3\DATA\0602-23\
Data File : 3G148119.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 18:35
Operator : AH//PR/KM
Sample : TOX@4000PPB
Misc : S,PEST
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:24:50 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_3\DATA\0602-23\
Data File : 3G148120.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 18:47
Operator : AH//PR/KM
Sample : TOX ICV
Misc : S,PEST
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:48:41 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:43:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.158	3.190	496.3E6	425.3E6	49.749m	49.760m
22)DCB-Surrogate	8.576	9.048	465.8E6	327.7E6	49.633m	50.701m
26)Toxaphene {1}	6.020	6.079	48811012	32957489	485.371m	503.012m
27)Toxaphene {2}	6.313	6.769	69464852	55426024	482.223m	497.640m
28)Toxaphene {3}	6.599	7.239	61151759	28914718	494.227m	489.319m
29)Toxaphene {4}	6.963	7.386	61662036	64765468	486.638m	478.895m
30)Toxaphene {5}	7.331	7.447	119.1E6	44852394	679.351	479.459m#

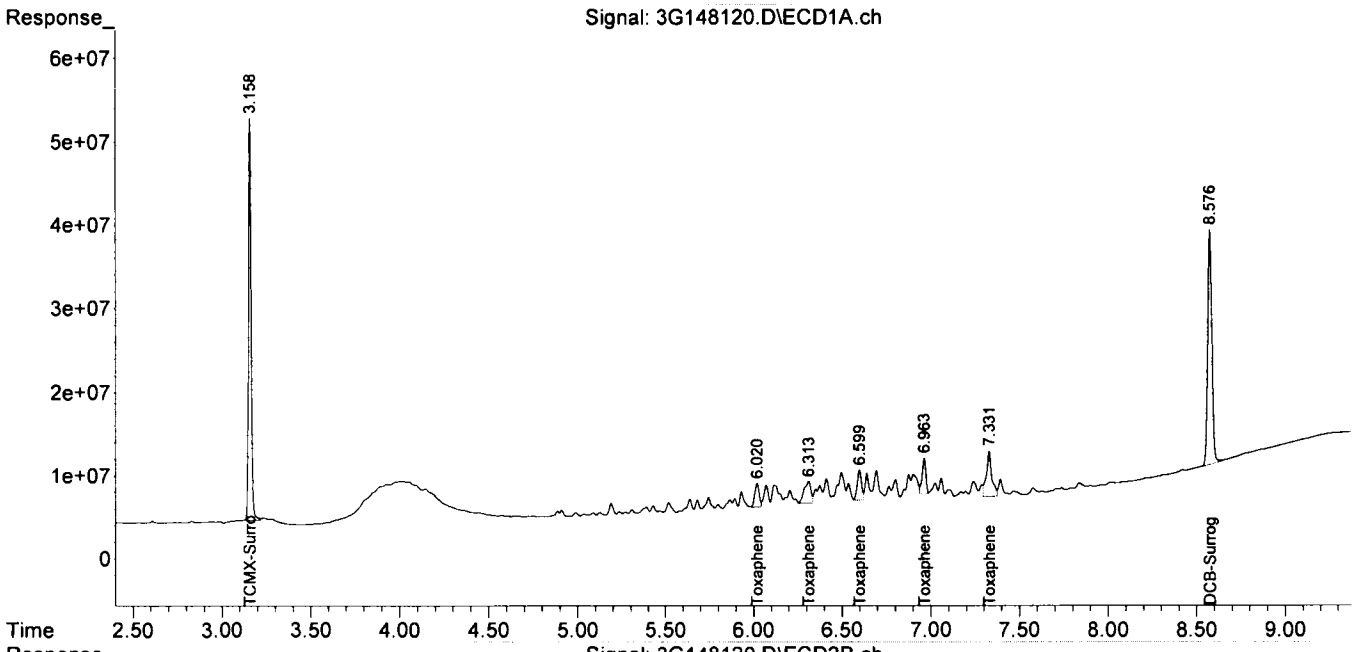
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

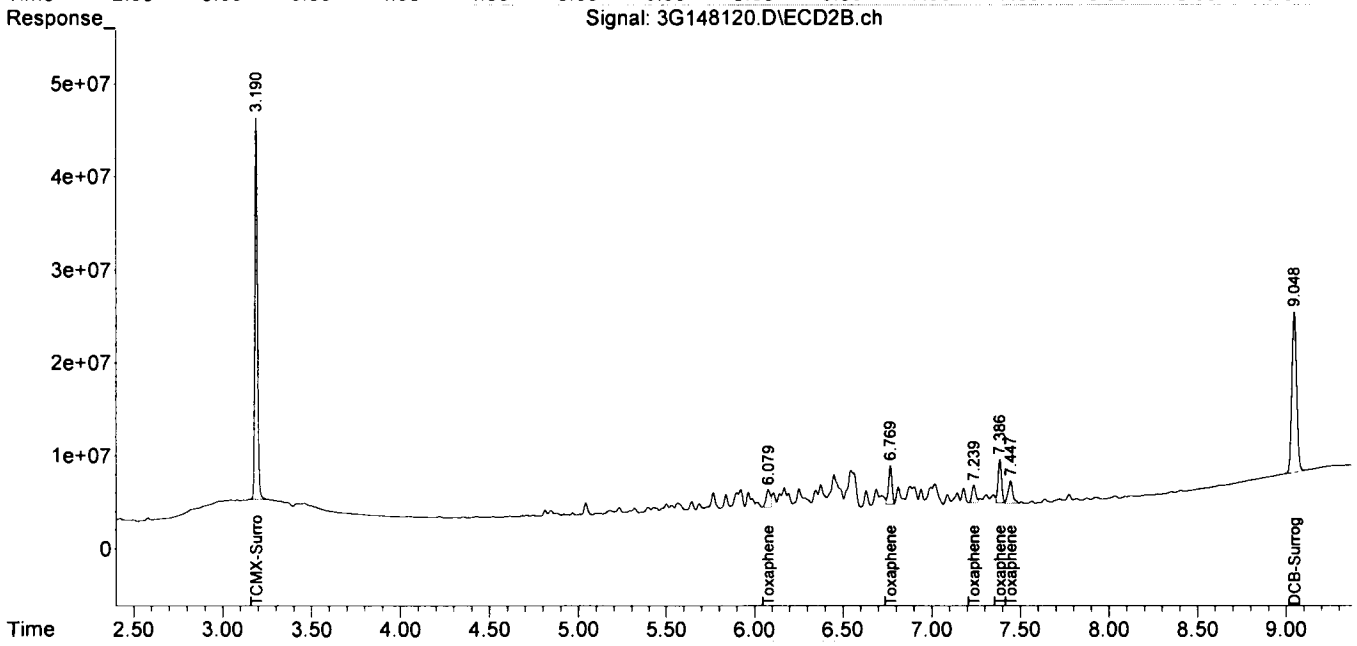
Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_3\DATA\0602-23\
Data File : 3G148120.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 18:47
Operator : AH//PR/KM
Sample : TOX ICV
Misc : S,PEST
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:48:41 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:43:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Form 6

Initial Calibration

Method: EPA 8081B

Instrument: GC_6

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	6G177188.D	CAL PEST@2PPB	06/14/23 11:02	2	6G177187.D	CAL PEST@10PPB	06/14/23 10:50
3	6G177191.D	CAL PEST@50PPB	06/14/23 11:37	4	6G177186.D	CAL PEST@100PPB	06/14/23 10:39
5	6G177190.D	CAL PEST@200PPB	06/14/23 11:26	6	6G177189.D	CAL PEST@400PPB	06/14/23 11:14
7	6G177192.D	CAL CHLORO@100P	06/14/23 11:49				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
TCMX-Surrogate	1	0	Avg	907.13	965.65	959.42	954.34	951.88	914.16	----	----	942	3.09	1.00	1.00	2.6	2.00	10.00	50.00	100.0	200.0	400.0		
alpha-BHC	1	0	Avg	1244.5	1343.7	1364.1	1360.0	1376.3	1330.2	----	----	1340	3.84	1.00	1.00	3.6	2.00	10.00	50.00	100.0	200.0	400.0		
gamma-BHC	1	0	Avg	1009.7	1204.0	1255.1	1249.5	1266.9	1222.2	----	----	1200	4.19	1.00	1.00	8.0	2.00	10.00	50.00	100.0	200.0	400.0		
beta-BHC	1	0	Avg	512.23	558.93	543.83	534.86	543.24	517.40	----	----	535	4.84	0.999	1.00	3.3	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor	1	0	Avg	918.46	1046.4	1140.3	1118.2	1146.4	1103.9	----	----	1080	4.38	1.00	1.00	8.0	2.00	10.00	50.00	100.0	200.0	400.0		
delta-BHC	1	0	Avg	900.85	1104.0	1208.7	1208.5	1237.4	1200.1	----	----	1140	5.09	1.00	1.00	11	2.00	10.00	50.00	100.0	200.0	400.0		
Aldrin	1	0	Avg	902.19	1097.0	1179.3	1175.8	1194.8	1148.0	----	----	1120	4.64	1.00	1.00	9.9	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor Epoxide	1	0	Avg	856.42	978.01	1033.0	1034.9	1052.2	1012.8	----	----	995	5.27	1.00	1.00	7.3	2.00	10.00	50.00	100.0	200.0	400.0		
v-chlordane	1	0	Avg	817.08	964.64	1035.9	1037.7	1064.6	1028.1	----	----	991	5.57	1.00	1.00	9.2	2.00	10.00	50.00	100.0	200.0	400.0		
a-chlordane	1	0	Avg	832.70	969.74	1019.2	1013.5	1038.8	1001.2	----	----	979	5.62	1.00	1.00	7.7	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan I	1	0	Avg	777.19	886.30	939.39	938.97	956.75	919.70	----	----	903	5.54	1.00	1.00	7.3	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDE	1	0	Avg	747.51	927.15	1023.5	1027.6	1058.4	1026.7	----	----	969	5.69	1.00	1.00	12	2.00	10.00	50.00	100.0	200.0	400.0		
Dieldrin	1	0	Avg	786.90	971.37	1070.5	1078.0	1107.4	1073.4	----	----	1010	5.88	1.00	1.00	12	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin	1	0	Avg	694.77	869.50	961.51	978.71	1002.8	976.22	----	----	914	6.08	1.00	1.00	13	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDD	1	0	Avg	637.84	760.42	830.36	832.49	863.91	839.75	----	----	794	6.46	1.00	1.00	11	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan II	1	0	Avg	705.95	810.36	872.88	878.07	896.18	872.02	----	----	839	6.55	1.00	1.00	8.5	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDT	1	0	Avg	525.13	616.41	729.28	744.87	801.83	800.84	----	----	703	6.62	1.00	1.00	16	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Aldehyde	1	0	Avg	472.51	529.41	563.94	560.28	579.25	567.90	----	----	546	6.96	1.00	1.00	7.2	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan Sulfate	1	0	Avg	666.25	756.89	776.63	796.62	805.49	774.86	----	----	763	7.27	1.00	1.00	6.6	2.00	10.00	50.00	100.0	200.0	400.0		
Methoxychlor	1	0	Avg	327.66	383.15	409.14	415.03	443.09	426.31	----	----	401	7.20	0.999	1.00	10	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Ketone	1	0	Avg	750.49	844.03	911.40	910.99	944.66	922.36	----	----	881	7.67	1.00	1.00	8.2	2.00	10.00	50.00	100.0	200.0	400.0		
DCB-Surrogate	1	0	Avg	775.57	815.10	791.14	794.87	802.10	772.60	----	----	792	8.41	1.00	1.00	2.0	2.00	10.00	50.00	100.0	200.0	400.0		
Chlordane (Technical)	1	1	Avg	----	----	----	----	----	----	----	----	53.4	4.38	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	1	2	Avg	----	----	----	----	----	----	----	----	105	5.57	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	1	3	Avg	----	----	----	----	----	----	----	----	151	5.63	-1	-1	Lvl=7	100.0							
Toxaphene	1	1	Avg	9.1268	9.8712	9.6552	9.5125	10.007	10.032	----	----	9.70	5.91	1.00	1.00	3.6	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	1	2	Avg	9.8856	9.7962	9.4015	9.0144	9.4650	9.6951	----	----	9.54	5.96	1.00	1.00	3.3	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	1	3	Avg	11.034	12.090	12.762	13.051	13.740	13.308	----	----	12.7	6.84	1.00	1.00	7.7	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	1	4	Avg	20.368	22.560	23.150	24.943	26.727	27.396	----	----	24.2	7.20	1.00	1.00	11	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	1	5	Avg	6.1547	6.7578	7.0681	7.6719	8.3714	8.1997	----	----	7.37	7.27	0.999	0.999	12	50.00	200.0	500.0	1000.	2000.	4000.		
TCMX-Surrogate	2	0	Avg	776.56	811.17	807.93	794.40	787.81	748.13	----	----	788	3.23	0.999	1.00	2.9	2.00	10.00	50.00	100.0	200.0	400.0		
alpha-BHC	2	0	Avg	871.26	1062.5	1148.7	1128.9	1147.5	1091.5	----	----	1080	3.82	0.999	1.00	9.8	2.00	10.00	50.00	100.0	200.0	400.0		
gamma-BHC	2	0	Avg	812.41	977.07	1026.8	1014.1	1025.7	979.25	----	----	973	4.18	0.999	1.00	8.4	2.00	10.00	50.00	100.0	200.0	400.0		
beta-BHC	2	0	Avg	443.03	481.38	452.84	440.57	444.07	420.41	----	----	447	4.23	0.999	1.00	4.5	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor	2	0	Avg	666.56	751.04	837.94	808.75	862.19	828.92	----	----	793	4.50	0.999	1.00	9.1	2.00	10.00	50.00	100.0	200.0	400.0		
delta-BHC	2	0	Avg	796.03	940.30	1021.2	1011.4	1026.3	985.66	----	----	964	4.58	1.00	1.00	9.1	2.00	10.00	50.00	100.0	200.0	400.0		

Avg Rsd Col 1: 8.20 Avg Rsd Col 2: 8.69

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

3061429 0790

Form 6

Initial Calibration

Method: EPA 8081B

Instrument: GC_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6G177188.D	CAL PEST@2PPB	06/14/23 11:02	2	6G177187.D	CAL PEST@10PPB	06/14/23 10:50
3	6G177191.D	CAL PEST@50PPB	06/14/23 11:37	4	6G177186.D	CAL PEST@100PPB	06/14/23 10:39
5	6G177190.D	CAL PEST@200PPB	06/14/23 11:26	6	6G177189.D	CAL PEST@400PPB	06/14/23 11:14
7	6G177192.D	CAL CHLORO@100P	06/14/23 11:49				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Aldrin	2	0	Avg	729.11	883.09	949.14	945.31	960.83	918.51	----	----	898	4.82	0.999	1.00	9.7	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor Epoxide	2	0	Avg	689.23	790.45	832.03	826.04	841.10	803.43	----	----	797	5.36	0.999	1.00	7.0	2.00	10.00	50.00	100.0	200.0	400.0		
v-chlordane	2	0	Avg	688.98	788.98	837.00	834.42	855.53	818.71	----	----	804	5.52	0.999	1.00	7.5	2.00	10.00	50.00	100.0	200.0	400.0		
a-chlordane	2	0	Avg	686.33	784.83	821.90	816.13	834.20	796.38	----	----	790	5.68	0.999	1.00	6.8	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan I	2	0	Avg	645.32	739.40	777.41	777.37	791.64	754.87	----	----	748	5.72	0.999	1.00	7.2	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDE	2	0	Avg	625.12	757.06	822.94	826.97	849.04	814.45	----	----	783	5.90	1.00	1.00	11	2.00	10.00	50.00	100.0	200.0	400.0		
Dieldrin	2	0	Avg	666.32	785.98	857.67	866.61	888.66	855.10	----	----	820	6.03	1.00	1.00	10	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin	2	0	Avg	555.69	679.19	745.21	759.74	778.77	755.79	----	----	712	6.40	1.00	1.00	12	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDD	2	0	Avg	524.67	623.13	680.30	681.69	707.84	683.25	----	----	650	6.46	1.00	1.00	10	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan II	2	0	Avg	582.38	665.95	722.77	711.14	733.90	705.05	----	----	687	6.58	1.00	1.00	8.2	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDT	2	0	Qua	372.51	437.71	535.98	545.95	614.21	604.76	----	----	519	6.77	0.999	0.999	18	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Aldehyde	2	0	Avg	458.26	497.35	520.00	510.77	528.94	513.05	----	----	505	6.90	1.00	1.00	5.0	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan Sulfate	2	0	Avg	541.52	616.07	638.36	630.75	647.16	621.81	----	----	616	7.03	1.00	1.00	6.2	2.00	10.00	50.00	100.0	200.0	400.0		
Methoxychlor	2	0	Avg	211.54	255.82	283.79	281.22	312.65	308.11	----	----	276	7.65	0.999	0.999	14	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Ketone	2	0	Avg	608.57	714.30	772.75	760.30	799.83	775.69	----	----	739	7.84	1.00	1.00	9.4	2.00	10.00	50.00	100.0	200.0	400.0		
DCB-Surrogate	2	0	Avg	653.58	672.82	642.78	636.49	648.26	621.42	----	----	646	9.10	1.00	1.00	2.7	2.00	10.00	50.00	100.0	200.0	400.0		
Chlordane (Technical)	2	1	Avg	----	----	----	----	----	----	----	----	29.1	4.34	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	2	2	Avg	----	----	----	----	----	----	----	----	93.9	5.52	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	2	3	Avg	----	----	----	----	----	----	----	----	69.2	5.68	-1	-1	Lvl=7	100.0							
Toxaphene	2	1	Avg	5.3180	5.2470	5.4022	5.4030	5.5471	5.9792	----	----	5.48	5.81	0.999	1.00	4.8	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	2	2	Avg	4.2802	4.6319	4.1328	4.1313	4.4204	4.0669	----	----	4.28	5.88	0.998	0.999	5.0	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	2	3	Avg	10.339	10.504	10.719	11.046	11.629	11.356	----	----	10.9	6.81	1.00	1.00	4.6	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	2	4	Avg	10.472	11.649	13.015	14.205	14.484	14.730	----	----	13.1	7.43	1.00	1.00	13	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	2	5	Avg	6.8504	8.1389	8.9859	10.109	11.278	11.154	----	----	9.42	7.49	0.999	0.999	19	50.00	200.0	500.0	1000.	2000.	4000.		

Avg Rsd Col 1: 8.20 Avg Rsd Col 2: 8.69

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 , Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\0614-23\
Data File : 6G177187.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 10:50
Operator : AH/PR/KM
Sample : CAL PEST@10PPB
Misc : S,PEST
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 12:30:14 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.091	3.230	96565640	81117459	10.686m	10.655m
2)alpha-BHC	3.840	3.820	134.4E6	106.3E6	10.070m	10.521m
3)gamma-BHC	4.191	4.179	120.4E6	97707072	10.451m	10.715m
4)beta-BHC	4.843	4.226	55893193	48138999	10.717m	11.078
5)Heptachlor	4.383	4.496	104.6E6	75104203	10.797m	10.804
6)delta-BHC	5.092	4.584	110.4E6	94030895	10.193	10.114
7)Aldrin	4.641	4.822	109.7E6	88309408	10.420	10.394m
8)Heptachlor Epoxid	5.267	5.360	97801838	79045873	10.504	10.489
9)y-chlordane	5.573	5.518	96464614	78898684	10.202	10.299m
10)a-chlordane	5.624	5.676	96974845	78483668	10.358	10.295
11)Endosulfan I	5.535	5.719	88630310	73940402	10.212	10.293
12)p,p'-DDE	5.690	5.901	92715097	75706552	10.091	10.089
13)Dieldrin	5.884	6.025	97137376	78598512	10.056m	9.988
14)Endrin	6.085	6.402	86950850	67919982	15.180m	16.798m
15)p,p'-DDD	6.458	6.462	76042402	62313609	10.052m	9.975
16)Endosulfan II	6.549	6.576	81036082	66595905	9.823	9.843m
17)p,p'-DDT	6.622	6.772	61641358	43771152	10.280	9.043
18)Endrin Aldehyde	6.959	6.904	52941573	49735450	8.575m	8.315
19)Endosulfan Sulfat	7.266	7.027	75689272	61607121	9.790	9.975
20)Methoxychlor	7.202	7.646	38315523	25582224	11.870	11.552m
21)Endrin Ketone	7.672	7.837	84403084	71430111	9.382m	9.049
22)DCB-Surrogate	8.412	9.105	81510573	67282838	10.456m	10.392m
23)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

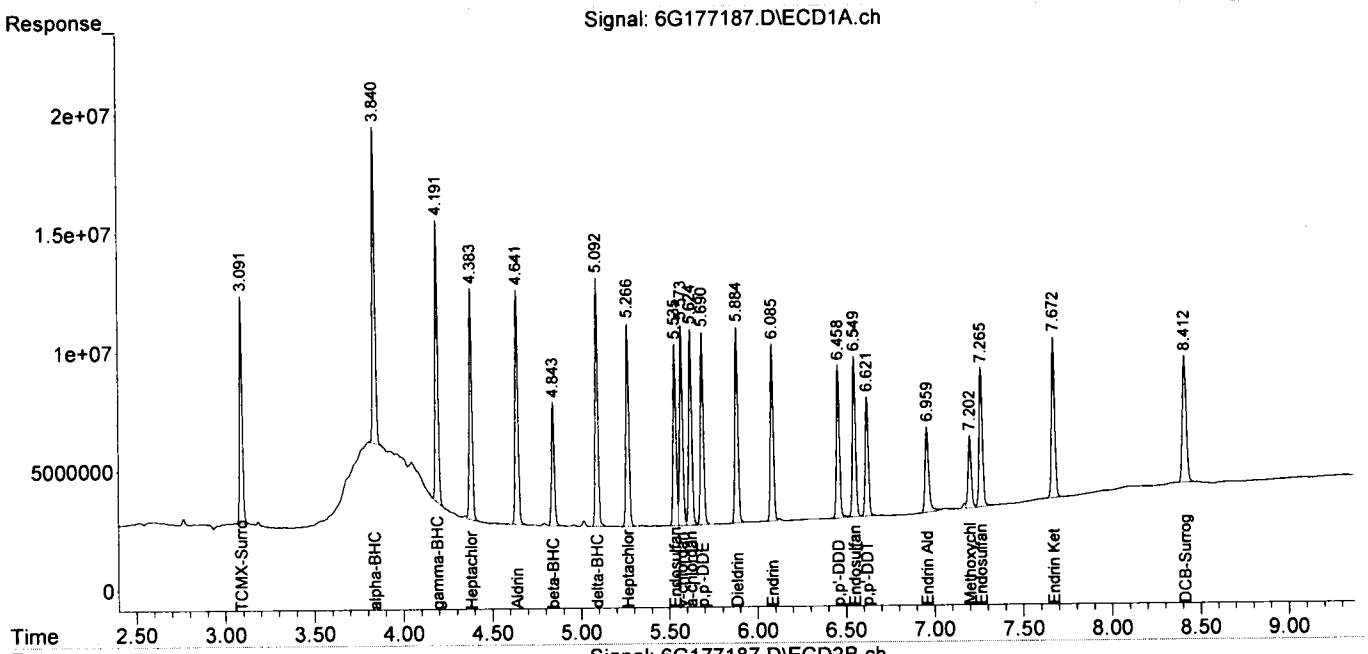
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

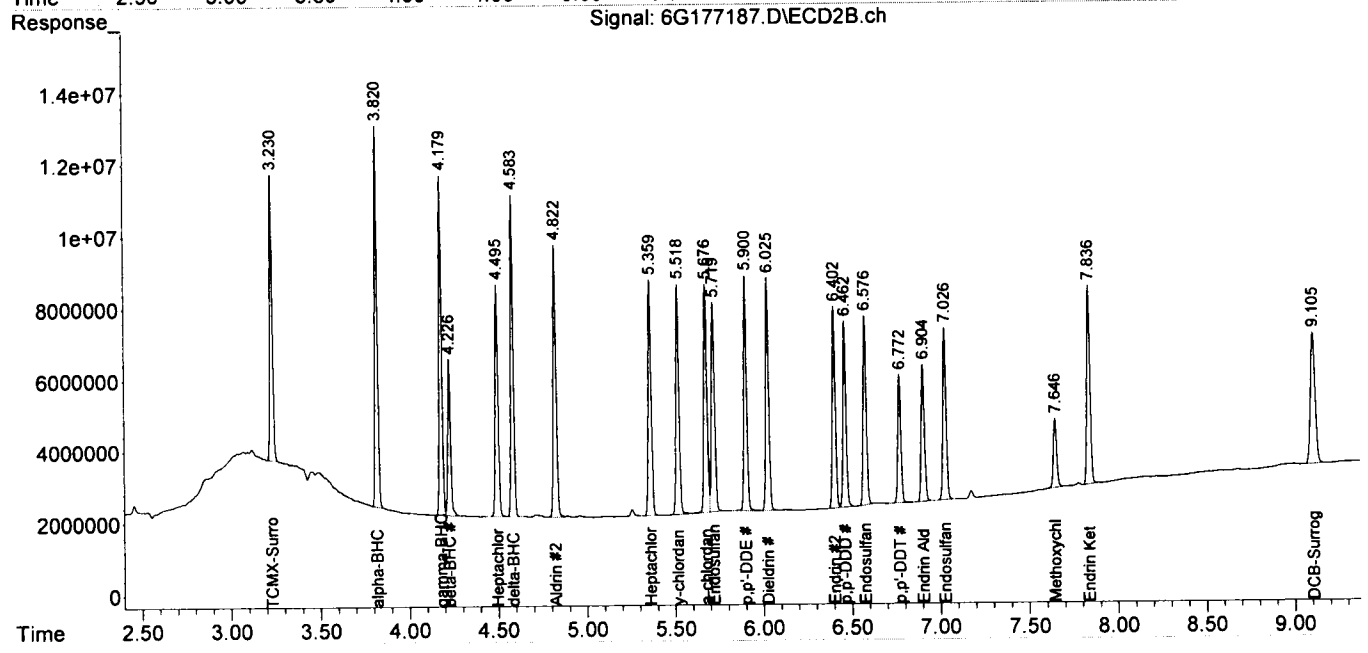
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\0614-23\
Data File : 6G177187.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 10:50
Operator : AH/PR/KM
Sample : CAL PEST@10PPB
Misc : S,PEST
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 12:30:14 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P
Signal #1 Info : .32
Signal #2 Phase: db-17
Signal #2 Info : .32





Data Path : G:\Gcdata\2023\GC_6\Data\0614-23\
Data File : 6G177191.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 11:37
Operator : AH/PR/KM
Sample : CAL PEST@50PPB
Misc : S,PEST
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 12:36:54 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.091	3.230	479.7E6	404.0E6	53.087m	53.060m
2)alpha-BHC	3.840	3.820	682.1E6	574.4E6	51.118m	56.869
3)gamma-BHC	4.190	4.180	627.6E6	513.4E6	54.473m	56.301
4)beta-BHC	4.842	4.226	271.9E6	226.4E6	52.136m	52.108
5)Heptachlor	4.382	4.495	570.2E6	419.0E6	58.832	60.272
6)delta-BHC	5.091	4.583	604.4E6	510.6E6	55.799	54.923
7)Aldrin	4.640	4.822	589.7E6	474.6E6	56.010m	55.856
8)Heptachlor Epoxid	5.267	5.359	516.5E6	416.0E6	55.472	55.205
9)y-chlordane	5.573	5.518	518.0E6	418.5E6	54.783	54.630
10)a-chlordane	5.624	5.677	509.6E6	411.0E6	54.434	53.907
11)Endosulfan I	5.535	5.719	469.7E6	388.7E6	54.117	54.113
12)p,p'-DDE	5.690	5.901	511.8E6	411.5E6	55.701	54.834
13)Dieldrin	5.884	6.026	535.3E6	428.8E6	55.416	54.495
14)Endrin	6.084	6.401	480.8E6	372.6E6	83.933m	92.152m
15)p,p'-DDD	6.458	6.462	415.2E6	340.2E6	54.881m	54.449
16)Endosulfan II	6.549	6.576	436.4E6	361.4E6	52.906	53.412
17)p,p'-DDT	6.621	6.772	364.6E6	268.0E6	60.813	54.513
18)Endrin Aldehyde	6.958	6.904	282.0E6	260.0E6	45.671m	43.468
19)Endosulfan Sulfat	7.265	7.027	388.3E6	319.2E6	50.225	51.682
20)Methoxychlor	7.201	7.647	204.6E6	141.9E6	63.377	64.074
21)Endrin Ketone	7.672	7.836	455.7E6	386.4E6	50.655	48.950
22)DCB-Surrogate	8.412	9.105	395.6E6	321.4E6	50.743	49.642m
23)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

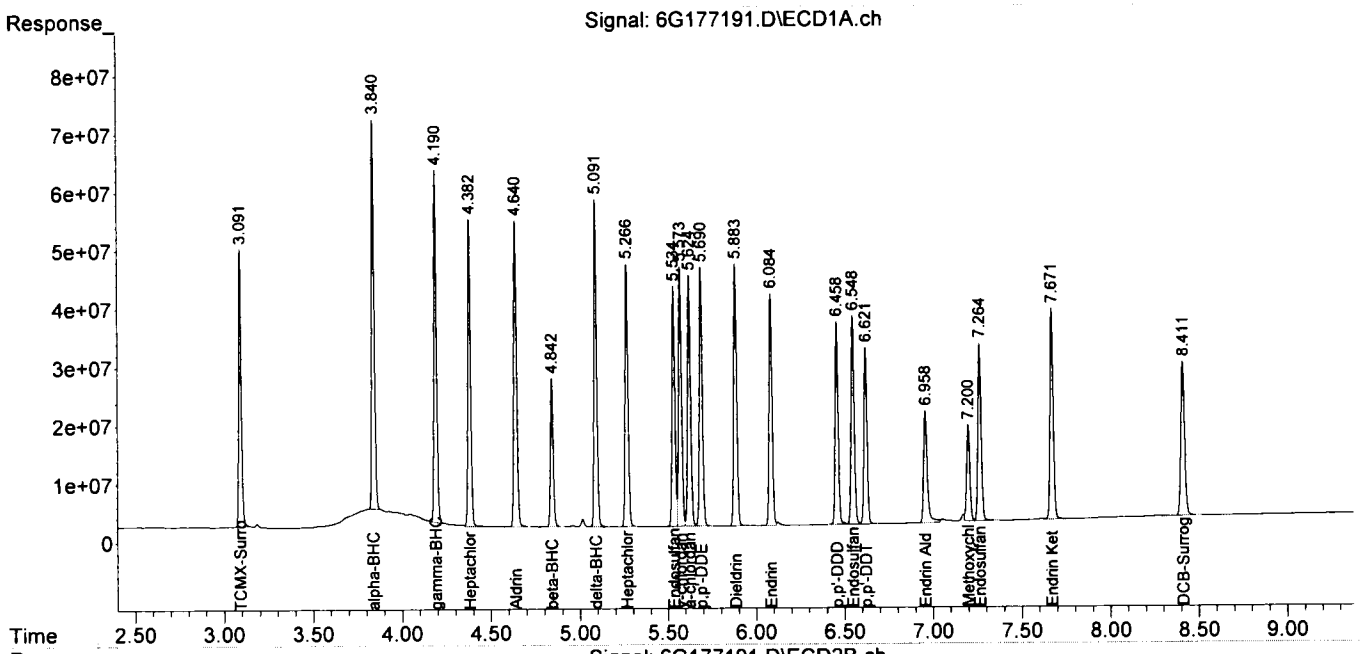
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

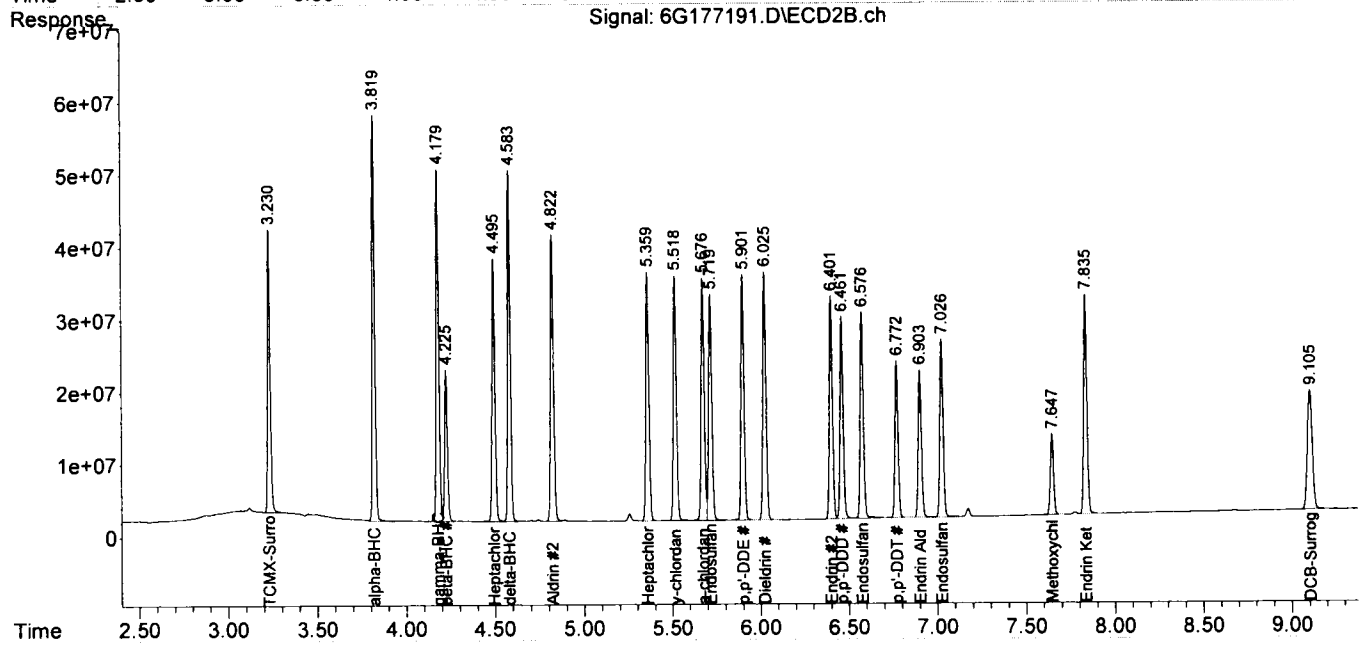
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\0614-23\
Data File : 6G177191.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 11:37
Operator : AH/PR/KM
Sample : CAL PEST@50PPB
Misc : S,PEST
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 12:36:54 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P
Signal #1 Info : .32
Signal #2 Phase: db-17
Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\0614-23\
Data File : 6G177186.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 10:39
Operator : AH/PR/KM
Sample : CAL PEST@100PPB
Misc : S,PEST
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 11:08:54 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.095	3.230	954.3E6	794.4E6	105.611m	104.343m
2)alpha-BHC	3.845	3.820	1360.0E6	1129.0E6	101.926m	111.782
3)gamma-BHC	4.195	4.180	1249.6E6	1014.2E6	108.462m	111.215
4)beta-BHC	4.848	4.226	534.9E6	440.6E6	102.553	101.391
5)Heptachlor	4.387	4.496	1118.2E6	808.8E6	115.380	116.343
6)delta-BHC	5.097	4.584	1208.6E6	1011.5E6	111.580	108.791
7)Aldrin	4.646	4.824	1175.9E6	945.3E6	111.692	111.261
8)Heptachlor Epoxid	5.272	5.361	1034.9E6	826.0E6	111.147	109.615
9)y-chlordane	5.578	5.520	1037.8E6	834.4E6	109.757	108.925
10)a-chlordane	5.629	5.678	1013.6E6	816.1E6	108.260	107.058
11)Endosulfan I	5.541	5.721	939.0E6	777.4E6	108.185	108.221
12)p,p'-DDE	5.695	5.903	1027.6E6	827.0E6	111.850	110.204
13)Dieldrin	5.889	6.028	1078.0E6	866.6E6	111.602	110.127
14)Endrin	6.090	6.404	978.7E6	759.7E6	170.869	187.895
15)p,p'-DDD	6.464	6.464	832.5E6	681.7E6	110.044	109.119
16)Endosulfan II	6.554	6.578	878.1E6	711.1E6	106.441	105.105m
17)p,p'-DDT	6.626	6.775	744.9E6	546.0E6	124.228	109.035
18)Endrin Aldehyde	6.963	6.906	560.3E6	510.8E6	90.748	85.393
19)Endosulfan Sulfat	7.270	7.028	796.6E6	630.8E6	103.036	102.132
20)Methoxychlor	7.205	7.649	415.0E6	281.2E6	128.580	126.985
21)Endrin Ketone	7.675	7.838	911.0E6	760.3E6	101.265	96.323
22)DCB-Surrogate	8.417	9.108	794.9E6	636.5E6	101.966	98.313
23)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

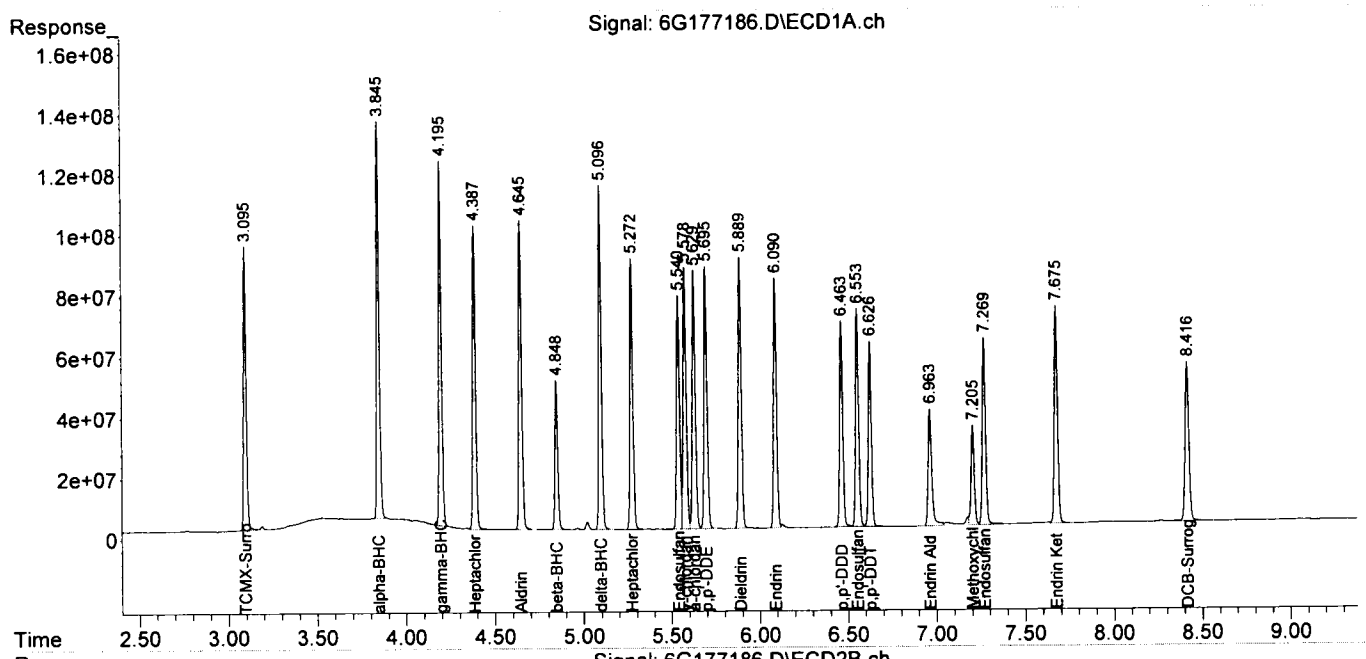
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

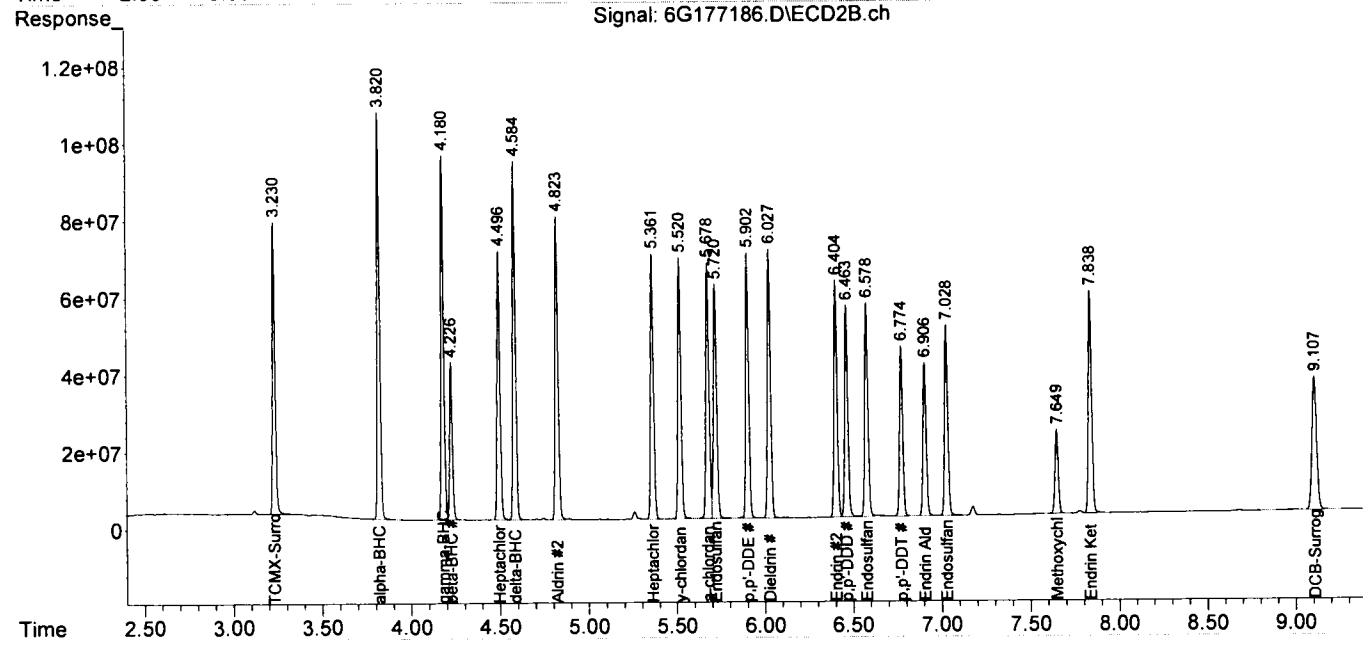
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\0614-23\
Data File : 6G177186.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 10:39
Operator : AH/PR/KM
Sample : CAL PEST@100PPB
Misc : S,PEST
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 11:08:54 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2023\GC_6\Data\0614-23\
Data File : 6G177190.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 11:26
Operator : AH/PR/KM
Sample : CAL PEST@200PPB
Misc : S,PEST
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 12:18:06 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.091	3.230	1903.8E6	1575.6E6	210.677m	206.954m
2)alpha-BHC	3.840	3.820	2752.7E6	2295.1E6	206.295m	227.235
3)gamma-BHC	4.191	4.180	2534.0E6	2051.6E6	219.943m	224.976
4)beta-BHC	4.843	4.226	1086.5E6	888.2E6	208.317	204.395
5)Heptachlor	4.383	4.495	2293.0E6	1724.4E6	236.588	248.062
6)delta-BHC	5.092	4.583	2474.9E6	2052.7E6	228.487	220.778
7)Aldrin	4.641	4.823	2389.6E6	1921.7E6	226.975	226.175
8)Heptachlor Epoxid	5.267	5.360	2104.5E6	1682.2E6	226.012	223.227
9)y-chlordane	5.573	5.518	2129.2E6	1711.1E6	225.194	223.360
10)a-chlordane	5.624	5.677	2077.6E6	1668.4E6	221.909	218.856
11)Endosulfan I	5.535	5.719	1913.5E6	1583.3E6	220.468	220.415
12)p,p'-DDE	5.690	5.900	2116.9E6	1698.1E6	230.415	226.292
13)Dieldrin	5.884	6.025	2214.8E6	1777.3E6	229.290	225.859
14)Endrin	6.085	6.402	2005.6E6	1557.6E6	350.151	385.207
15)p,p'-DDD	6.458	6.462	1727.8E6	1415.7E6	228.392m	226.611
16)Endosulfan II	6.549	6.576	1792.4E6	1467.8E6	217.272	216.937
17)p,p'-DDT	6.622	6.772	1603.7E6	1228.4E6	267.453	235.412
18)Endrin Aldehyde	6.959	6.904	1158.5E6	1057.9E6	187.642	176.861
19)Endosulfan Sulfat	7.266	7.027	1611.0E6	1294.3E6	208.366	209.579
20)Methoxychlor	7.202	7.647	886.2E6	625.3E6	274.546	282.363
21)Endrin Ketone	7.672	7.836	1889.3E6	1599.7E6	210.016	202.660
22)DCB-Surrogate	8.414	9.105	1604.2E6	1296.5E6	205.784	200.262m
23)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

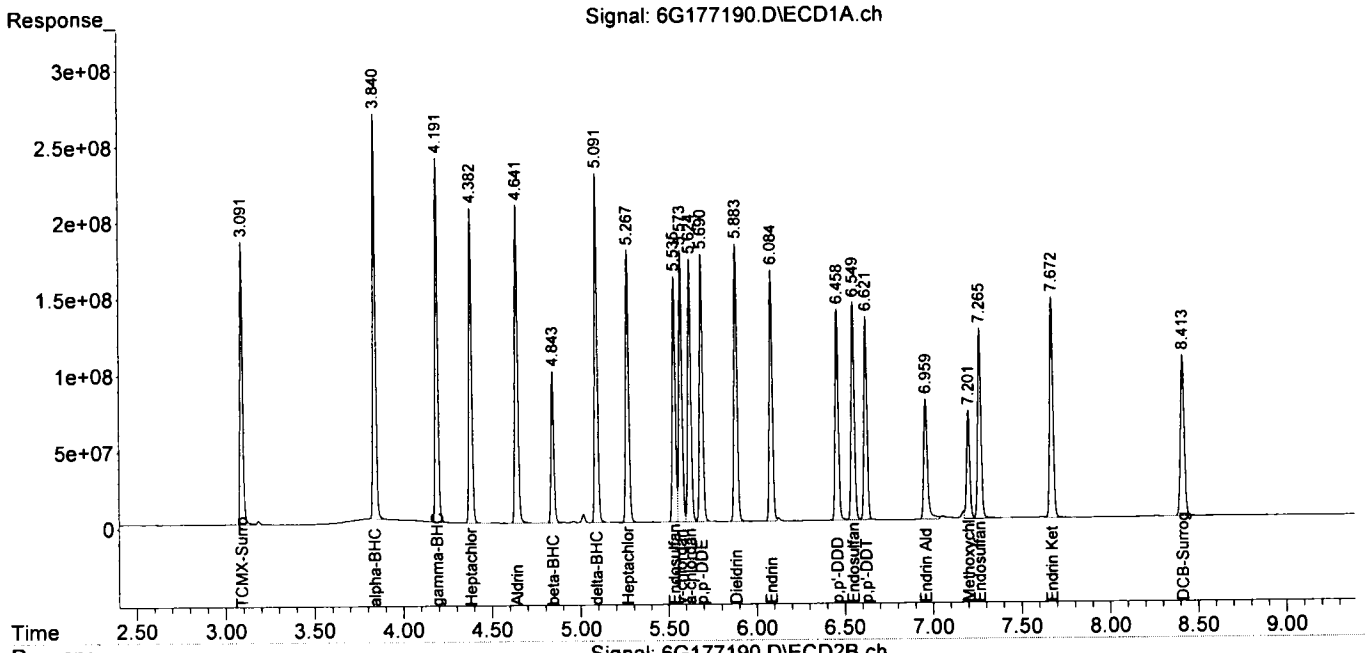
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

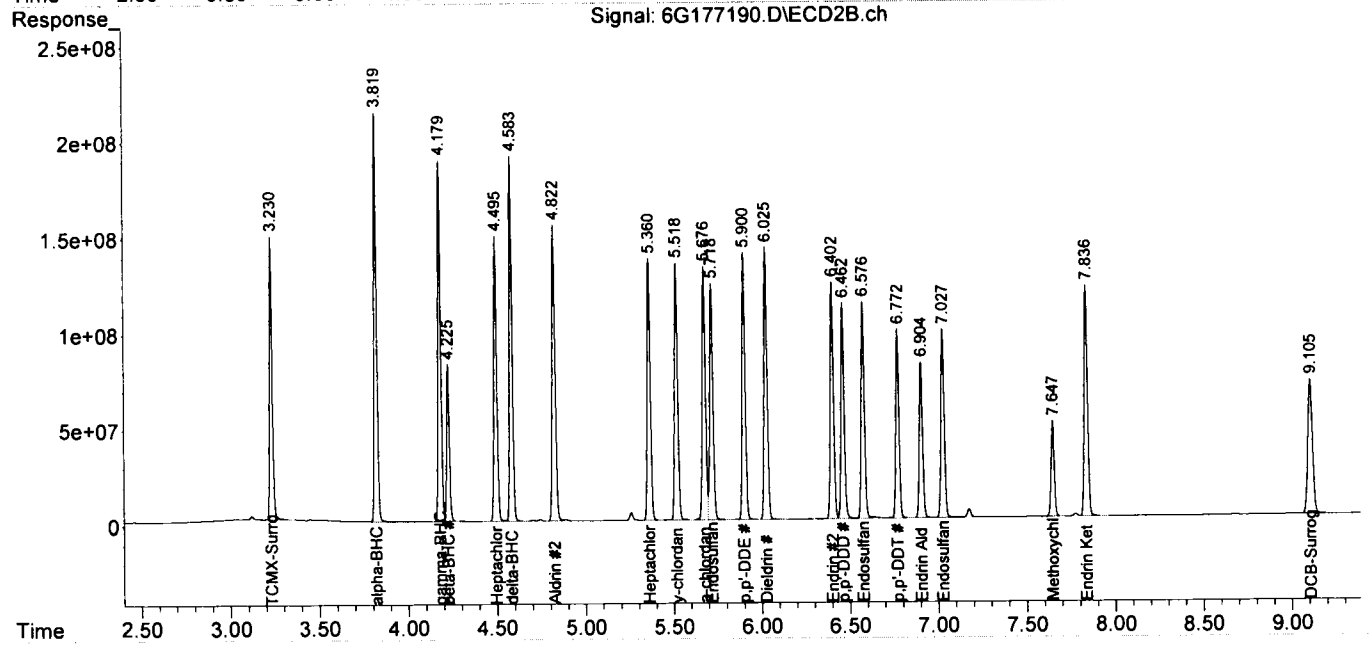
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\0614-23\
Data File : 6G177190.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 11:26
Operator : AH/PR/KM
Sample : CAL PEST@200PPB
Misc : S,PEST
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 12:18:06 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P
Signal #1 Info : .32
Signal #2 Phase: db-17
Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\0614-23\
Data File : 6G177189.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 11:14
Operator : AH/PR/KM
Sample : CAL PEST@400PPB
Misc : S,PEST
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 12:15:33 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.092	3.230	3656.6E6	2992.5E6	404.657	393.060m
2)alpha-BHC	3.841	3.820	5321.0E6	4366.2E6	398.772m	432.295
3)gamma-BHC	4.191	4.180	4889.1E6	3917.0E6	424.362m	429.541
4)beta-BHC	4.843	4.226	2069.6E6	1681.6E6	396.820	387.003
5)Heptachlor	4.383	4.496	4415.7E6	3315.7E6	455.609	476.978
6)delta-BHC	5.092	4.584	4800.7E6	3942.6E6	443.215	424.058
7)Aldrin	4.642	4.823	4592.2E6	3674.1E6	436.188	432.426
8)Heptachlor Epoxid	5.268	5.360	4051.5E6	3213.8E6	435.115	426.461
9)y-chlordane	5.574	5.519	4112.8E6	3274.8E6	434.976	427.491
10)a-chlordane	5.625	5.677	4005.2E6	3185.5E6	427.785	417.867
11)Endosulfan I	5.535	5.720	3678.8E6	3019.5E6	423.862	420.355
12)p,p'-DDE	5.691	5.901	4107.0E6	3257.8E6	447.018	434.145
13)Dieldrin	5.884	6.026	4294.0E6	3420.4E6	444.540	434.656
14)Endrin	6.085	6.402	3904.9E6	3023.2E6	681.735m	747.673
15)p,p'-DDD	6.459	6.462	3359.0E6	2733.0E6	444.010	437.481
16)Endosulfan II	6.550	6.577	3488.1E6	2820.2E6	422.827	416.821
17)p,p'-DDT	6.623	6.773	3203.4E6	2419.0E6	534.242	435.654m
18)Endrin Aldehyde	6.960	6.905	2271.6E6	2052.2E6	367.928	343.095
19)Endosulfan Sulfat	7.266	7.028	3099.5E6	2487.3E6	400.884	402.740
20)Methoxychlor	7.202	7.647	1705.2E6	1232.5E6	528.292m	556.513m
21)Endrin Ketone	7.672	7.837	3689.4E6	3102.8E6	410.113	393.088
22)DCB-Surrogate	8.413	9.107	3090.4E6	2485.7E6	396.435	383.938m
23)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

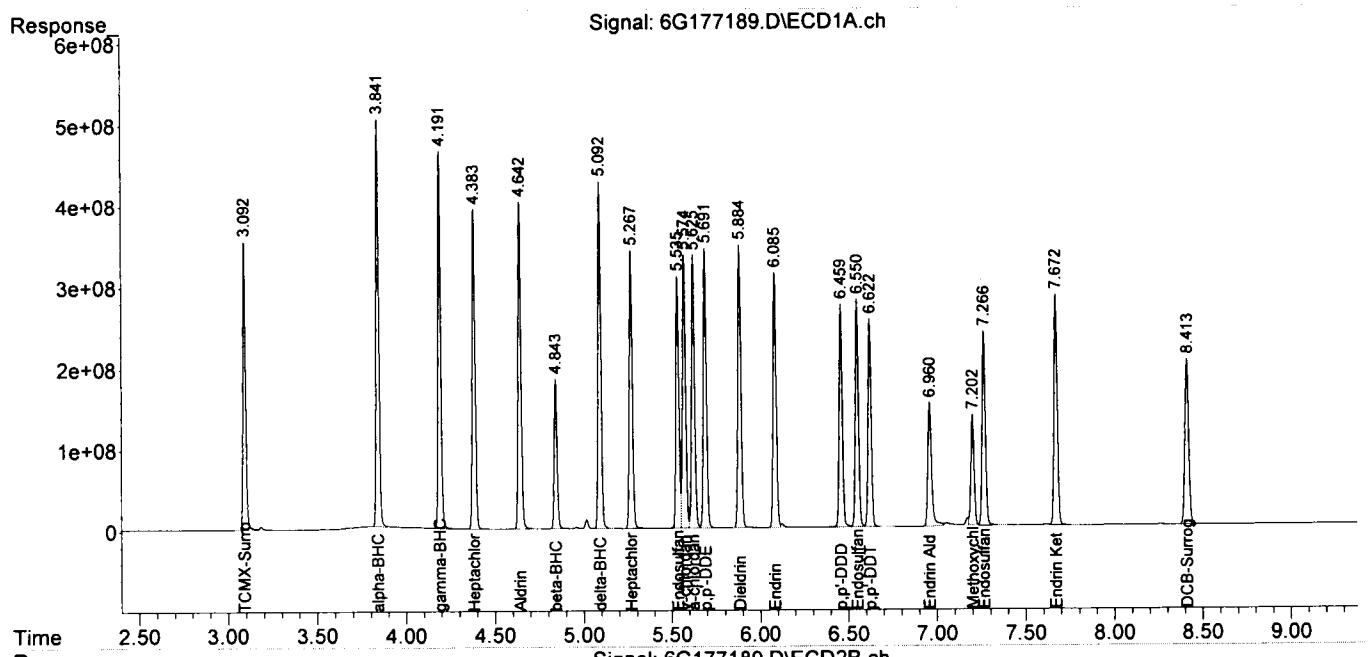
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

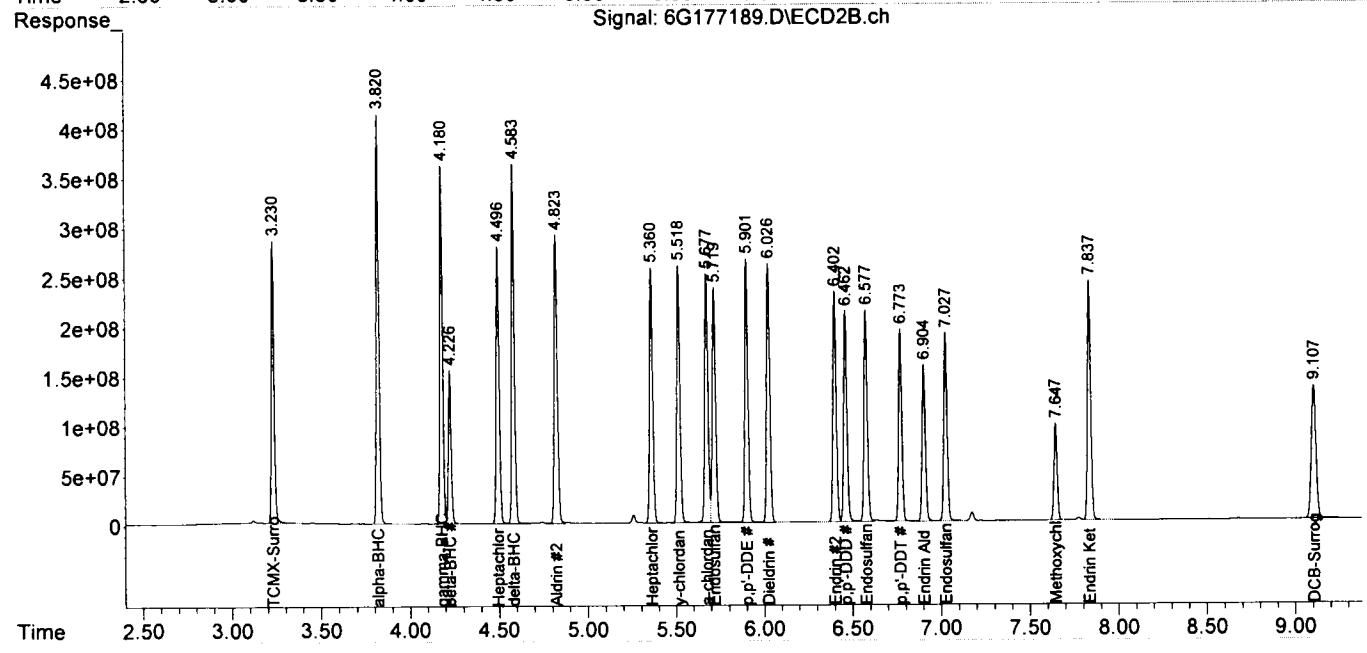
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\0614-23\
Data File : 6G177189.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 11:14
Operator : AH/PR/KM
Sample : CAL PEST@400PPB
Misc : S,PEST
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 12:15:33 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P
Signal #1 Info : .32
Signal #2 Phase: db-17
Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\0614-23\
Data File : 6G177192.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 11:49
Operator : AH/PR/KM
Sample : CAL CHLORO@100PPB
Misc : S,PEST
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 12:21:32 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.092	3.230	972.2E6	791.7E6	107.592	103.989m
2)alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)gamma-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)Heptachlor Epoxid	0.000	0.000	0	0	N.D. d	N.D. d
9)y-chlordane	0.000	0.000	0	0	N.D. d	N.D. d
10)a-chlordane	0.000	0.000	0	0	N.D. d	N.D. d
11)Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
12)p,p'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)p,p'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)Endosulfan II	0.000	0.000	0	0	N.D. d	N.D. d
17)p,p'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)Endrin Aldehyde	0.000	0.000	0	0	N.D. d	N.D. d
19)Endosulfan Sulfat	0.000	0.000	0	0	N.D. d	N.D. d
20)Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)Endrin Ketone	0.000	0.000	0	0	N.D. d	N.D. d
22)DCB-Surrogate	8.413	9.105	779.9E6	629.7E6	100.040	97.257m
23)Chlordane (Techni	4.382	4.345	53388093	29067795	117.924m	115.624
24)Chlordane (Techni	5.573	5.518	104.7E6	93873392	110.171	105.368m
25)Chlordane (Techni	5.626	5.676	150.5E6	69161089	108.207	108.695
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

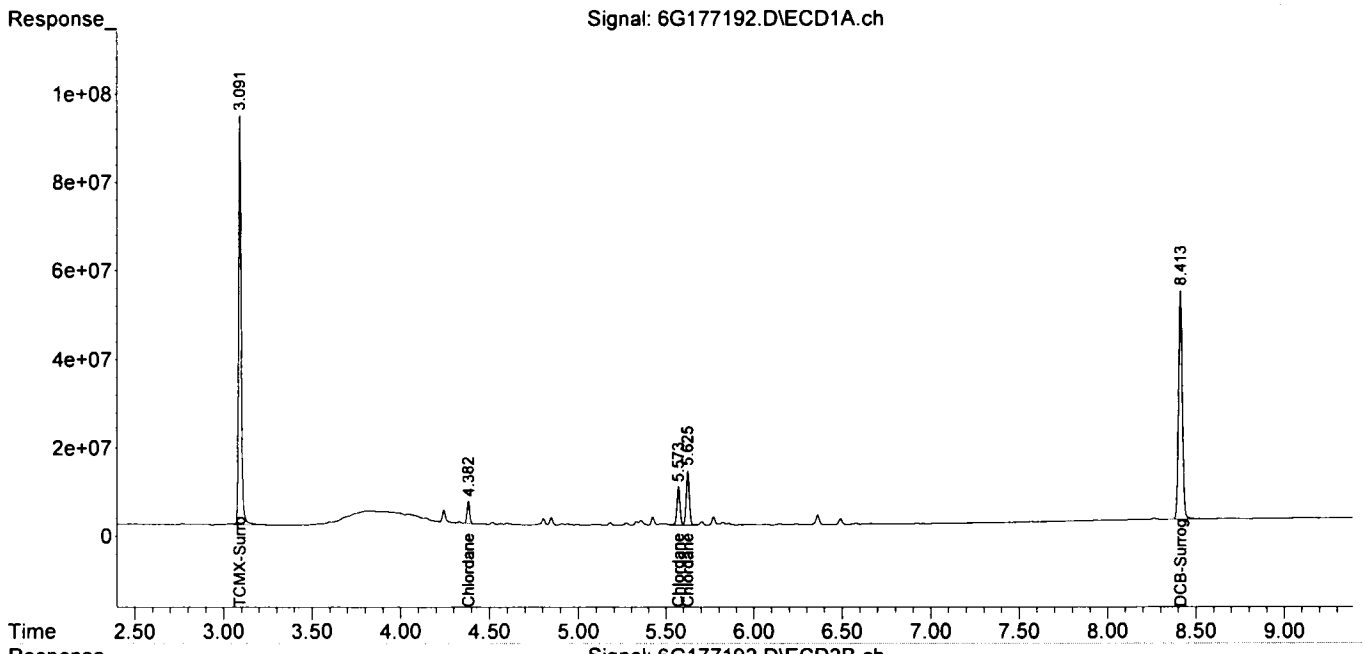
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

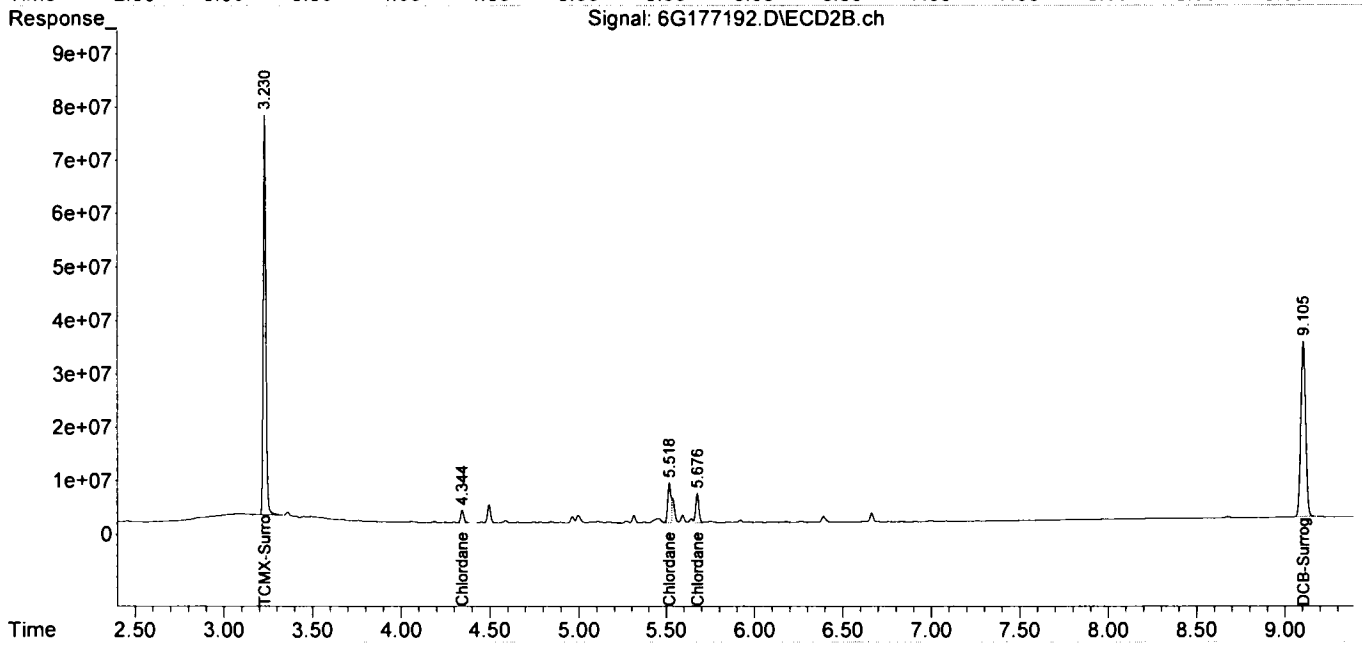
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\0614-23\
Data File : 6G177192.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 11:49
Operator : AH/PR/KM
Sample : CAL CHLORO@100PPB
Misc : S,PEST
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 12:21:32 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\GCDATA\2023\GC_6\DATA\0614-23\
Data File : 6G177193.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 12:01
Operator : AH/PR/KM
Sample : TOX@4000PPB
Misc : S,PEST
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 14:32:12 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.092	3.231	3835.5E6	3107.9E6	424.454m	408.217m
22)DCB-Surrogate	8.412	9.106	3222.0E6	2608.1E6	413.318m	402.846m
26)Toxaphene {1}	5.906	5.810	401.3E6	239.2E6	4743.206m	4517.642m
27)Toxaphene {2}	5.957	5.882	387.8E6	162.7E6	4634.948m	4087.375m
28)Toxaphene {3}	6.840	6.811	532.3E6	454.2E6	4486.840m	4507.603m
29)Toxaphene {4}	7.204	7.429	1095.8E6	589.2E6	4879.474m	4983.884m
30)Toxaphene {5}	7.268	7.489	328.0E6	446.2E6	4999.803m	4949.734m

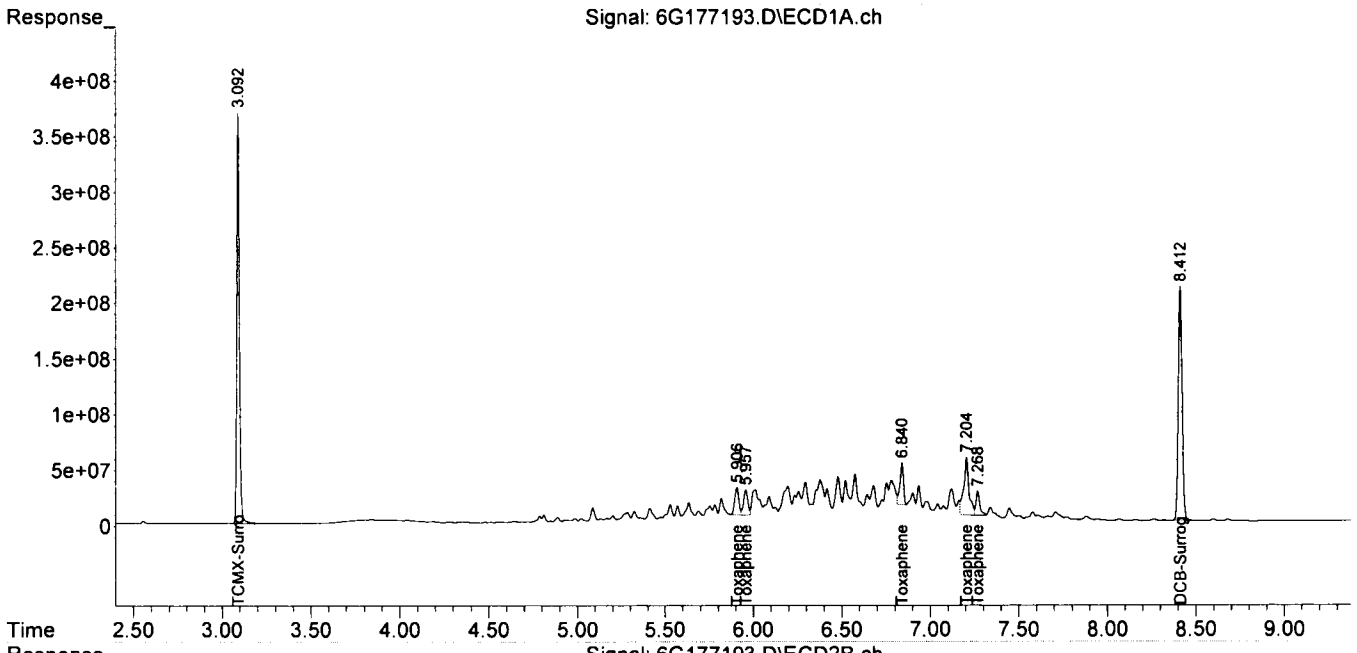
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

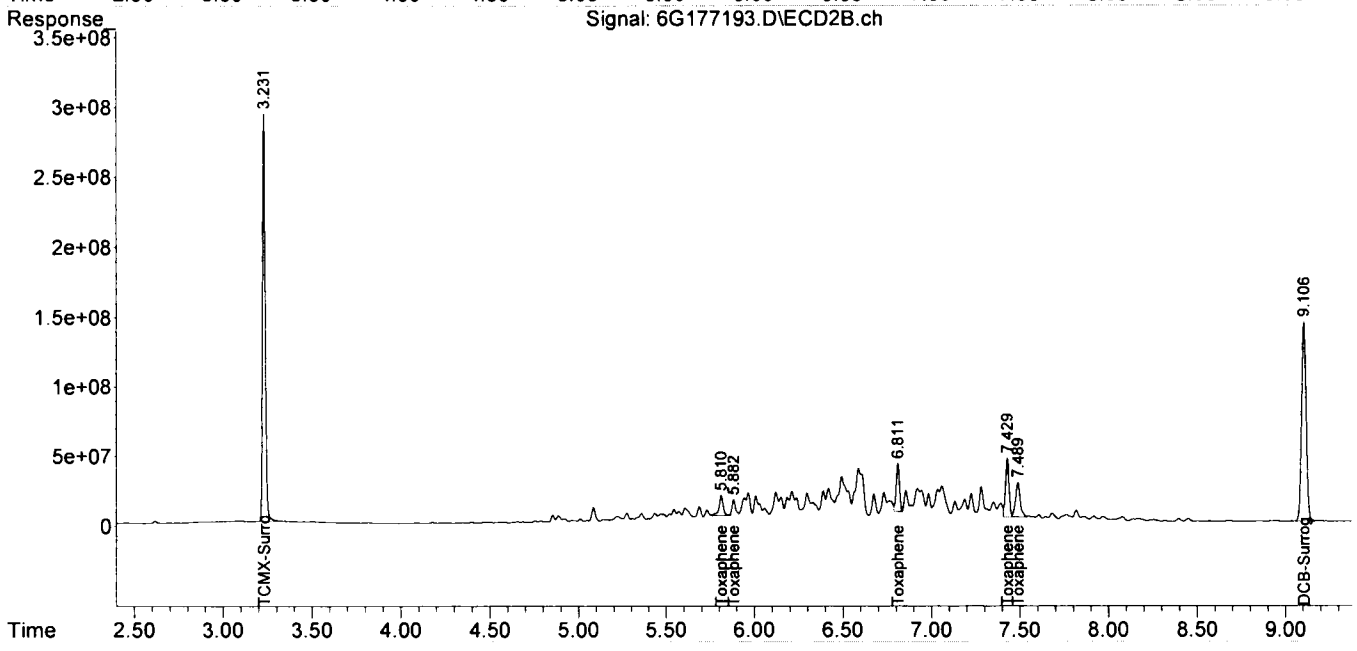
Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_6\DATA\0614-23\
Data File : 6G177193.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 12:01
Operator : AH/PR/KM
Sample : TOX@4000PPB
Misc : S,PEST
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 14:32:12 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_6\DATA\0614-23\
Data File : 6G177194.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 12:12
Operator : AH/PR/KM
Sample : TOX@200PPB
Misc : S,PEST
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 14:33:22 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
	Target Compounds						
1)	TCMX-Surrogate	3.091	3.230	204.3E6	169.6E6	22.608m	22.275m
22)	DCB-Surrogate	8.411	9.105	166.4E6	137.3E6	21.351m	21.211m
26)	Toxaphene {1}	5.906	5.810	19742509	10494159	233.343m	198.224m
27)	Toxaphene {2}	5.956	5.881	19592390	9263815	234.164m	232.759m
28)	Toxaphene {3}	6.839	6.811	24181295	21009102	203.817m	208.481m
29)	Toxaphene {4}	7.204	7.428	45120261	23299701	200.908m	197.077m
30)	Toxaphene {5}	7.266	7.488	13515677	16277908	206.030m	180.579

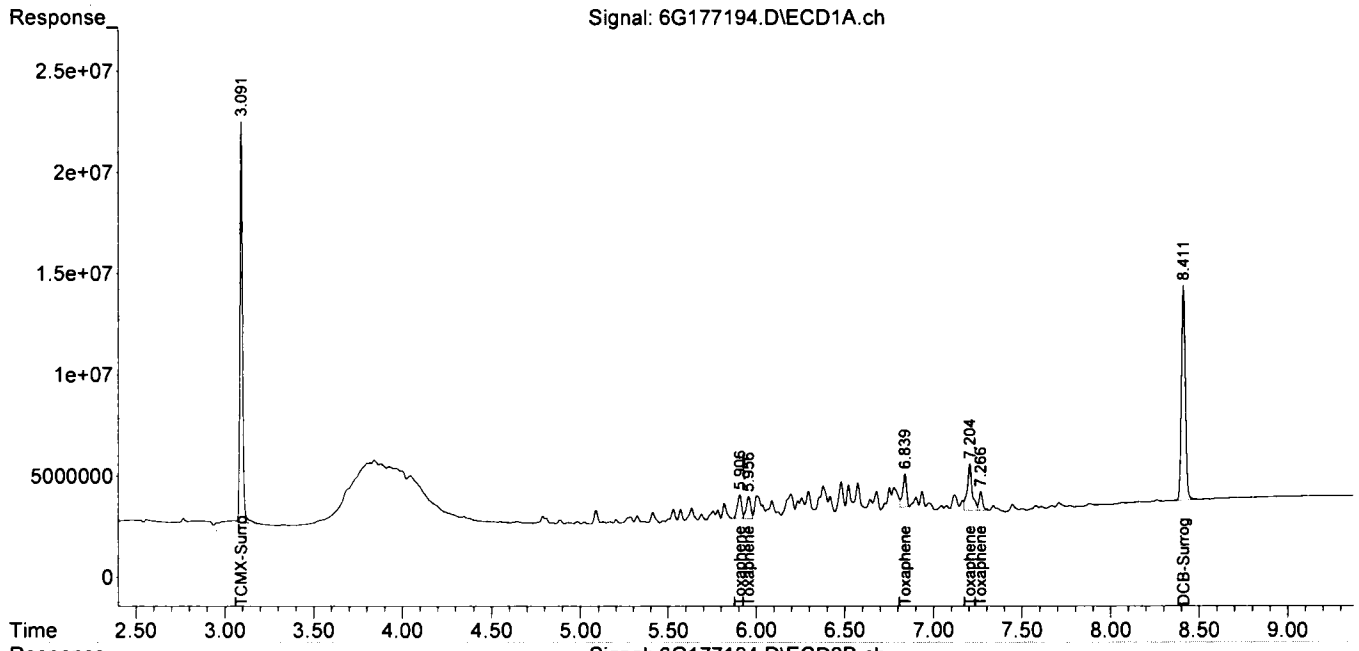
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

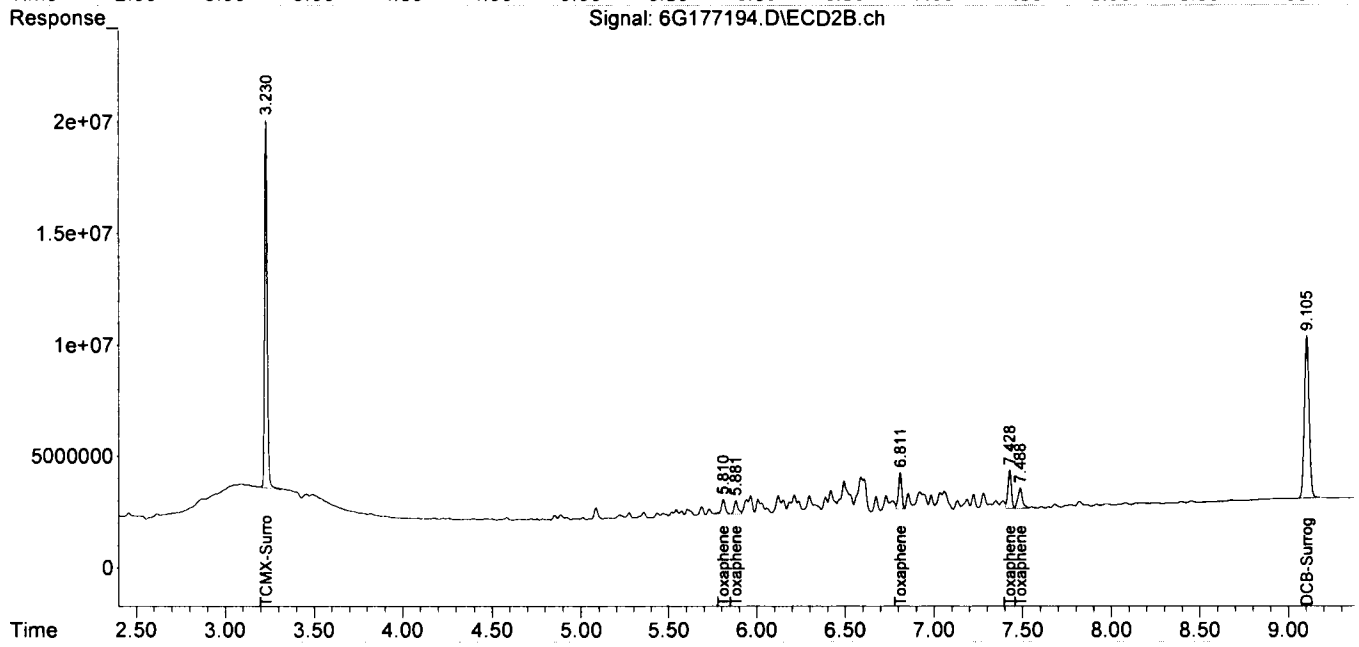
Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_6\DATA\0614-23\
Data File : 6G177194.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 12:12
Operator : AH/PR/KM
Sample : TOX@200PPB
Misc : S,PEST
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 14:33:22 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\GCDATA\2023\GC_6\DATA\0614-23\
Data File : 6G177195.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 12:24
Operator : AH/PR/KM
Sample : TOX@1000PPB
Misc : S,PEST
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 14:34:01 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.091	3.230	975.5E6	809.9E6	107.952m	106.378m
22)DCB-Surrogate	8.412	9.105	806.0E6	659.6E6	103.387m	101.885m
26)Toxaphene {1}	5.906	5.809	95125896	54030485	1124.321m	1020.580m
27)Toxaphene {2}	5.957	5.881	90144543	41313785	1077.387m	1038.034m
28)Toxaphene {3}	6.839	6.811	130.5E6	110.5E6	1100.048m	1096.141m
29)Toxaphene {4}	7.204	7.428	249.4E6	142.1E6	1110.651m	1201.531m
30)Toxaphene {5}	7.267	7.488	76719516	101.1E6	1169.497m	1121.535m

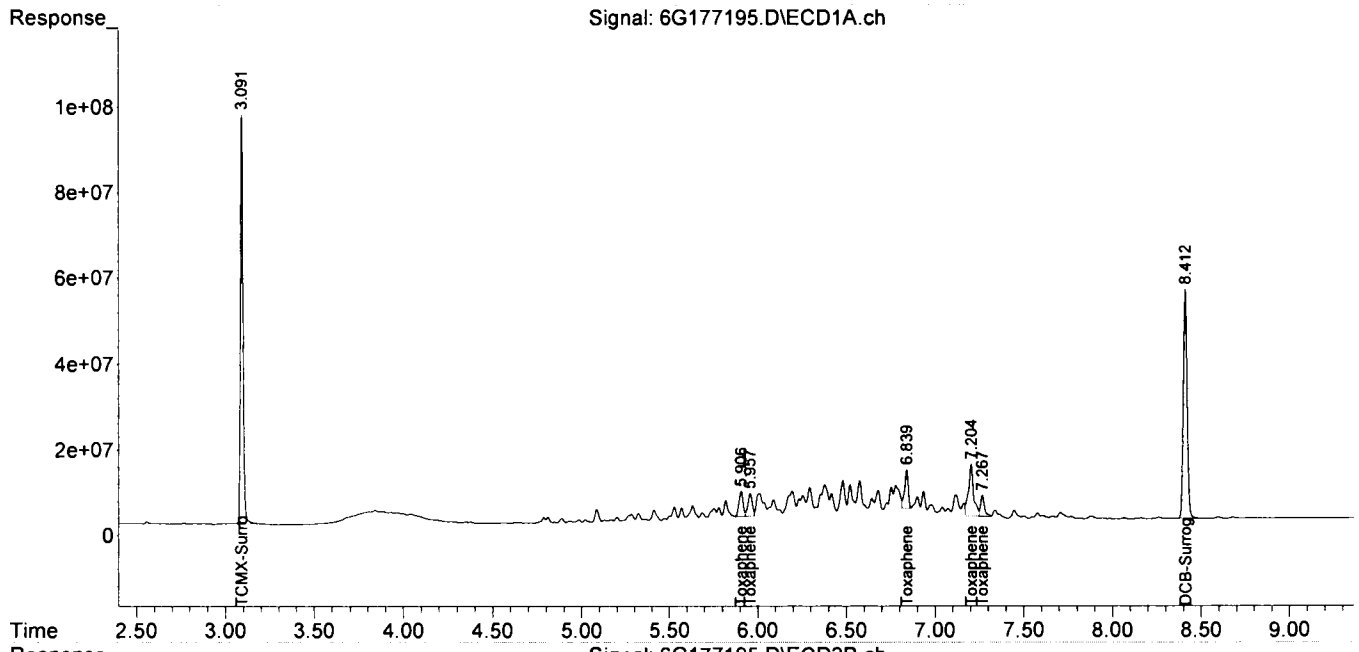
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

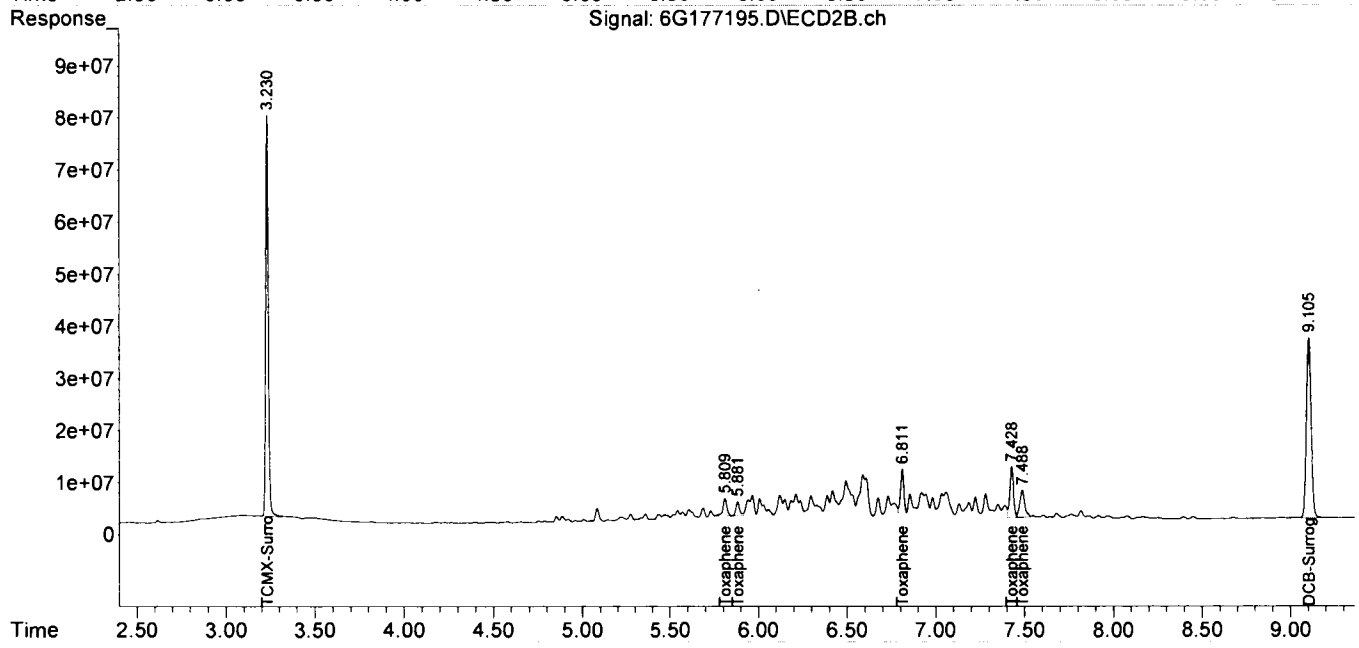
Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_6\DATA\0614-23\
Data File : 6G177195.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 12:24
Operator : AH/PR/KM
Sample : TOX@1000PPB
Misc : S,PEST
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 14:34:01 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\GCDATA\2023\GC_6\DATA\0614-23\
Data File : 6G177196.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 12:36
Operator : AH/PR/KM
Sample : TOX@500PPB
Misc : S,PEST
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 14:34:39 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.091	3.230	497.8E6	421.4E6	55.086m	55.345m
22)DCB-Surrogate	8.412	9.106	407.2E6	332.3E6	52.241m	51.328m
26)Toxaphene {1}	5.906	5.810	48276223	27011293	570.591m	510.215m
27)Toxaphene {2}	5.956	5.881	47007918	20664061	561.828m	519.197m
28)Toxaphene {3}	6.838	6.811	63812045	53595354	537.854m	531.846m
29)Toxaphene {4}	7.204	7.429	115.8E6	65078754	515.410m	550.458m
30)Toxaphene {5}	7.266	7.489	35340513	44929931	538.724m	498.431m

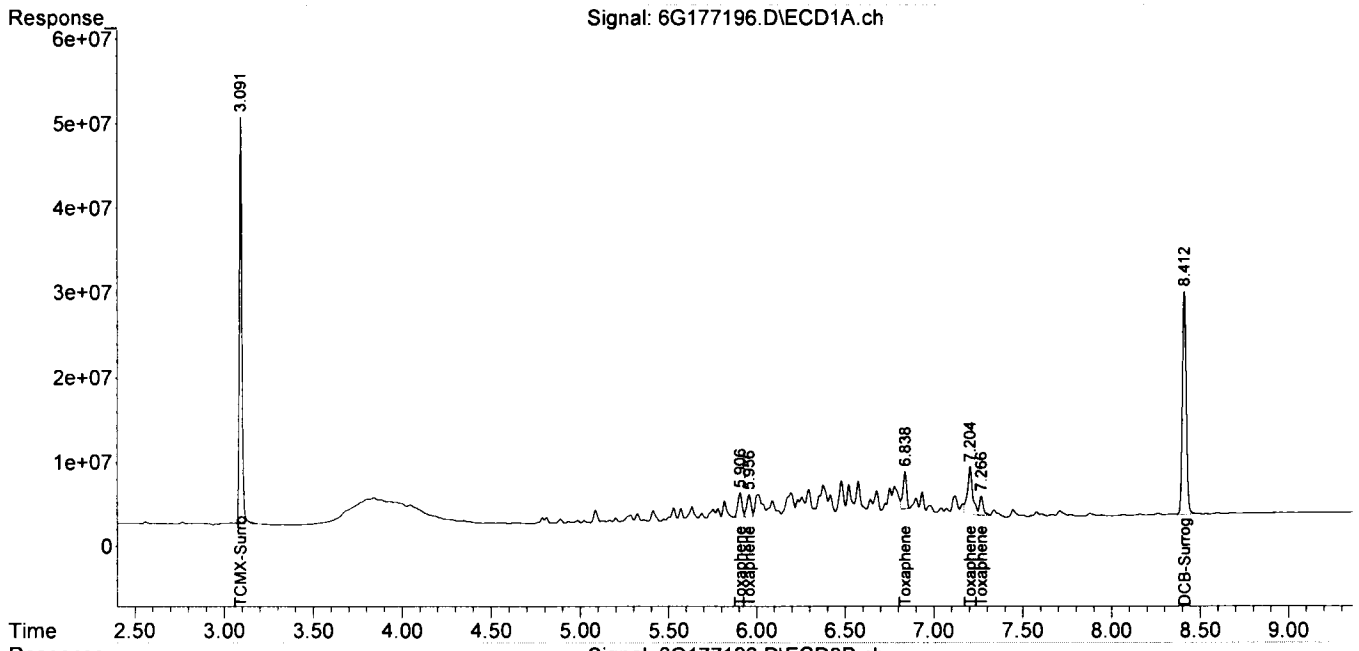
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

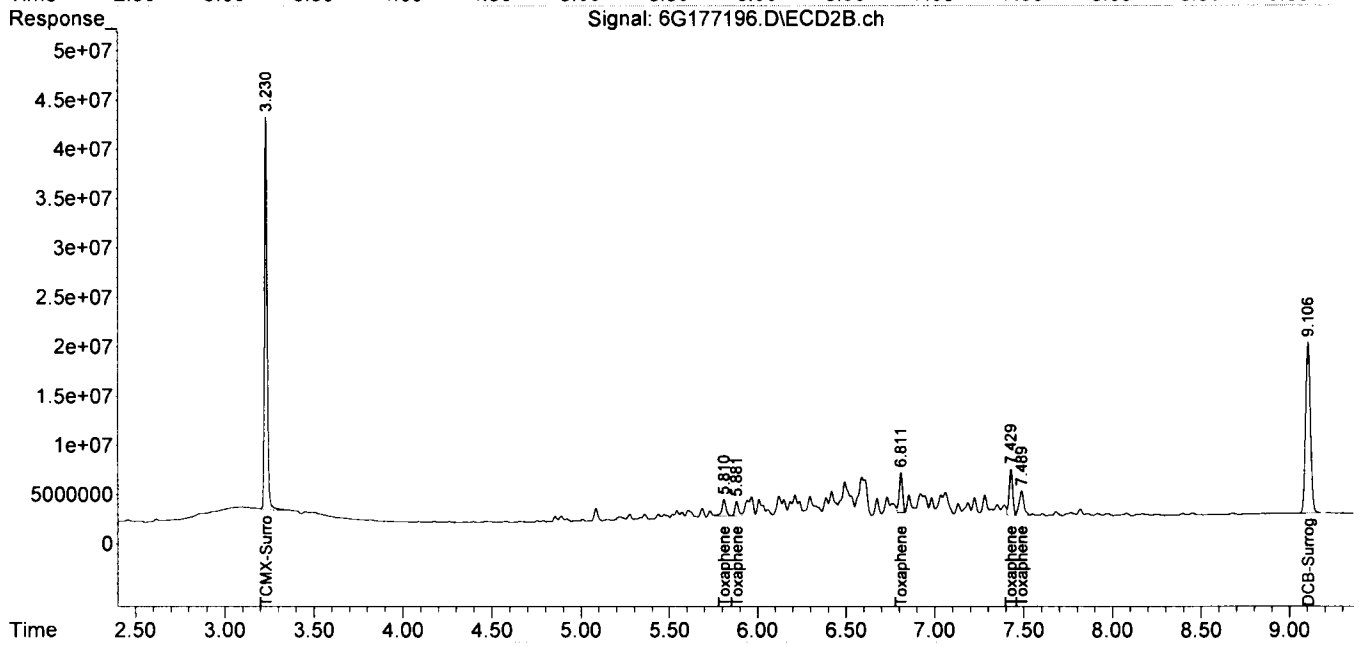
Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_6\DATA\0614-23\
Data File : 6G177196.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 12:36
Operator : AH/PR/KM
Sample : TOX@500PPB
Misc : S,PEST
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 14:34:39 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\GCDATA\2023\GC_6\DATA\0614-23\
Data File : 6G177197.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 12:48
Operator : AH/PR/KM
Sample : TOX@2000PPB
Misc : S,PEST
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 14:35:16 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

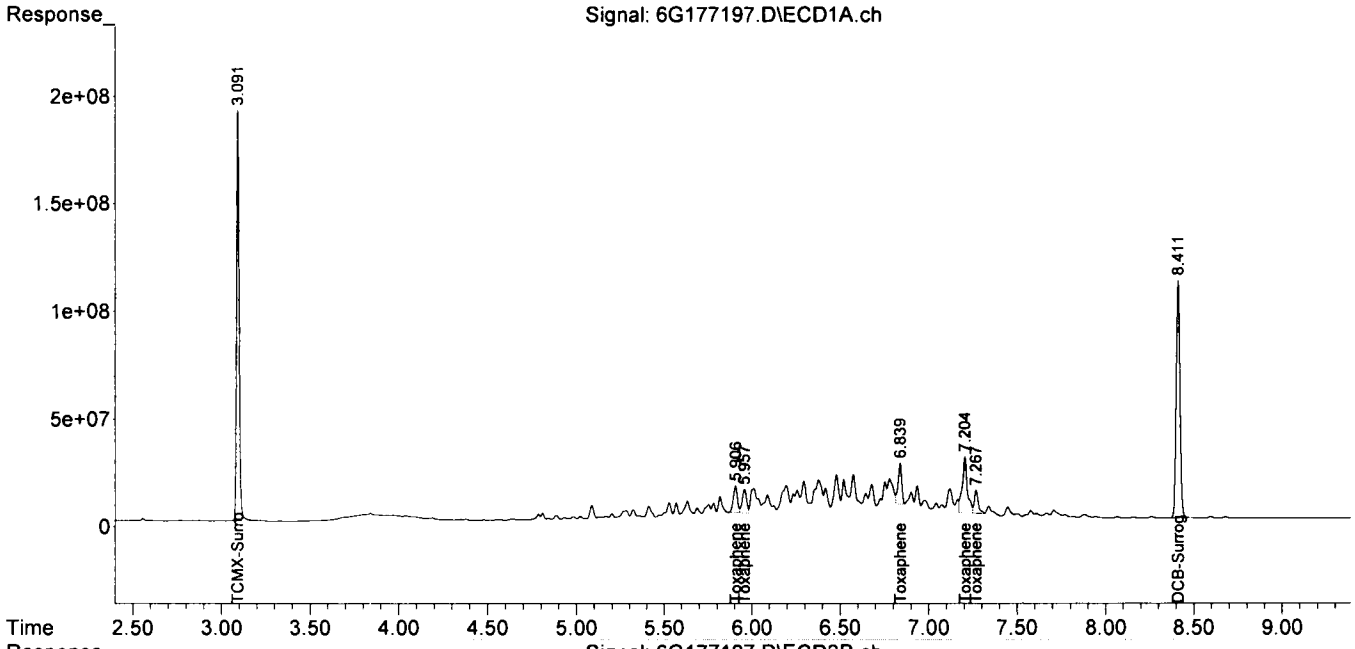
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.091	3.230	1976.1E6	1631.7E6	218.682m	214.314m
22)DCB-Surrogate	8.411	9.106	1657.6E6	1349.9E6	212.629m	208.507m
26)Toxaphene {1}	5.906	5.810	200.2E6	110.9E6	2365.640m	2095.583m
27)Toxaphene {2}	5.957	5.881	189.3E6	88409543	2262.474m	2221.344m
28)Toxaphene {3}	6.839	6.811	274.8E6	232.6E6	2316.220m	2308.008m
29)Toxaphene {4}	7.204	7.429	534.6E6	289.7E6	2380.200m	2450.234m
30)Toxaphene {5}	7.267	7.489	167.4E6	225.6E6	2552.260m	2502.386m

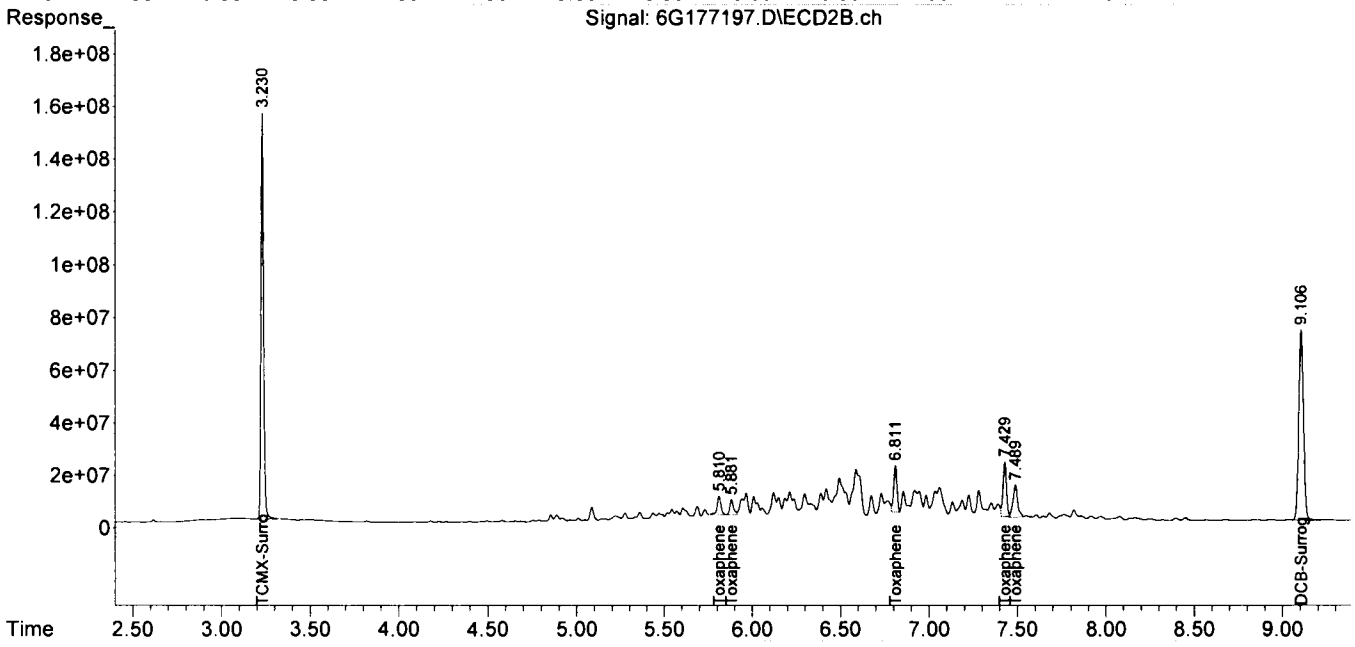
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\GCDATA\2023\GC_6\DATA\0614-23\
Data File : 6G177197.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 12:48
Operator : AH/PR/KM
Sample : TOX@2000PPB
Misc : S,PEST
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 14:35:16 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\GCDATA\2023\GC_6\DATA\0614-23\
Data File : 6G177198.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 12:59
Operator : AH/PR/KM
Sample : TOX@50PPB
Misc : S,PEST
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 14:35:47 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

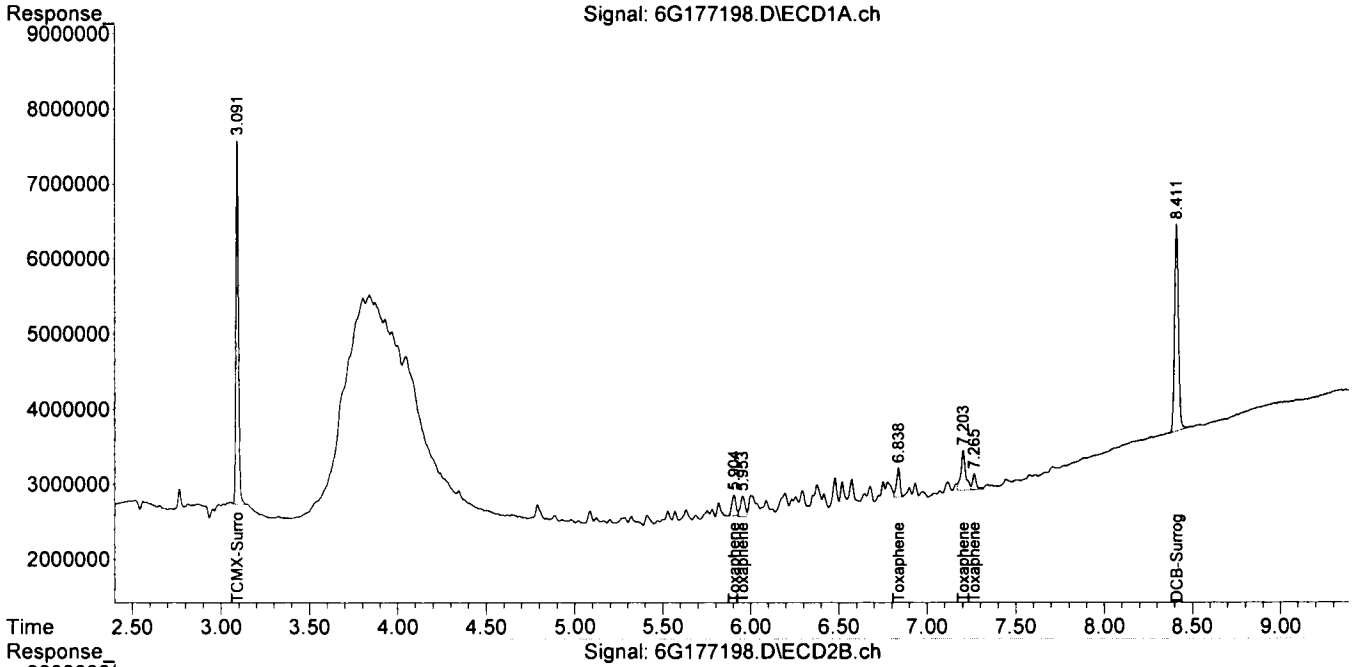
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.091	3.230	48680292	41864906	5.387m	5.499m
22)DCB-Surrogate	8.411	9.103	42728238	35729427	5.481m	5.519m
26)Toxaphene {1}	5.905	5.809	4563410	2659039	53.936	50.227
27)Toxaphene {2}	5.953	5.879	4942801	2140098	59.075m	53.771
28)Toxaphene {3}	6.838	6.809	5517402	5169713	46.505m	51.301m
29)Toxaphene {4}	7.203	7.428	10184223	5236280	45.347m	44.290m
30)Toxaphene {5}	7.265	7.487	3077368	3425204	46.911m	37.998

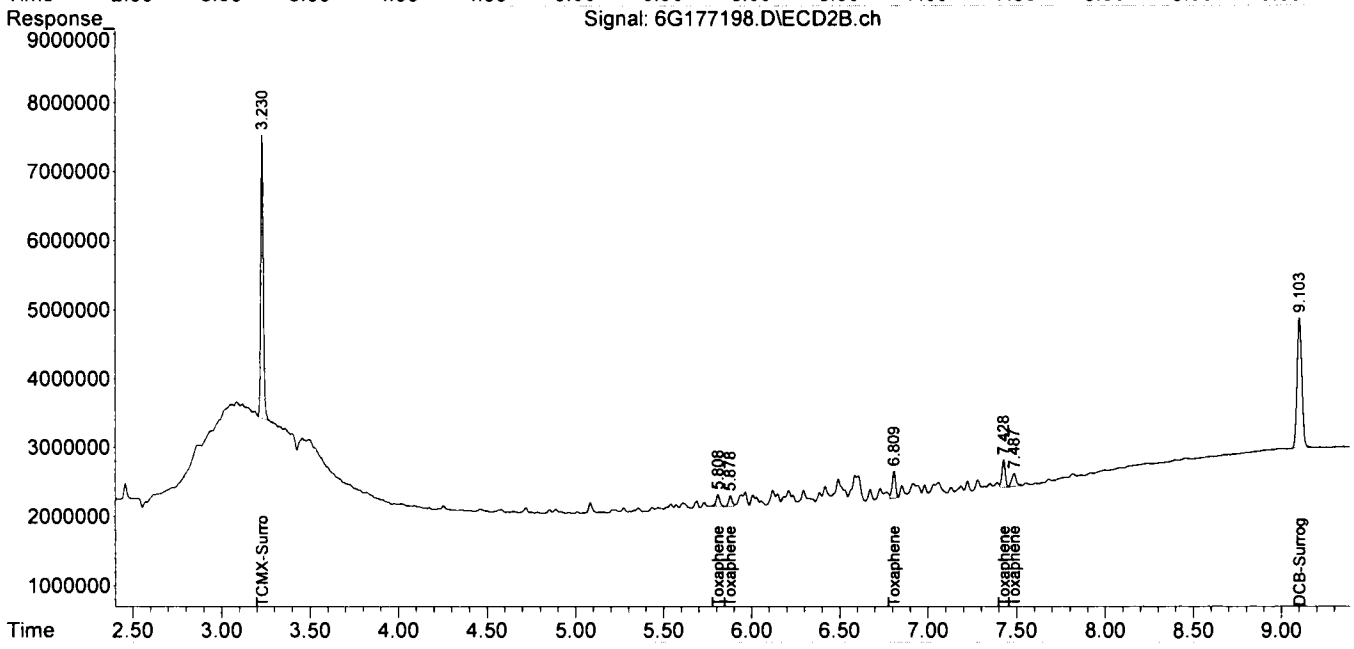
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\GCDATA\2023\GC_6\DATA\0614-23\
Data File : 6G177198.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 12:59
Operator : AH/PR/KM
Sample : TOX@50PPB
Misc : S,PEST
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 14:35:47 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_6\DATA\0614-23\
Data File : 6G177199.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 13:11
Operator : AH/PR/KM
Sample : TOX ICV
Misc : S,PEST
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 14:24:37 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Mon Jun 26 14:17:27 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
	Target Compounds						
1)	TCMX-Surrogate	3.091	3.230	477.9E6	500.3E6	50.729	63.516 #
22)	DCB-Surrogate	8.410	9.103	391.6E6	321.6E6	49.444	49.797
26)	Toxaphene {1}	5.905	5.809	46255924	25217990	476.814m	459.948m
27)	Toxaphene {2}	5.956	5.880	46526615	20076572	487.547m	469.376m
28)	Toxaphene {3}	6.838	6.810	61458496	53799565	485.280m	492.112m
29)	Toxaphene {4}	7.204	7.427	104.3E6	61968409	430.957m	473.293m
30)	Toxaphene {5}	7.266	7.487	31707037	44870457	430.180m	476.346m

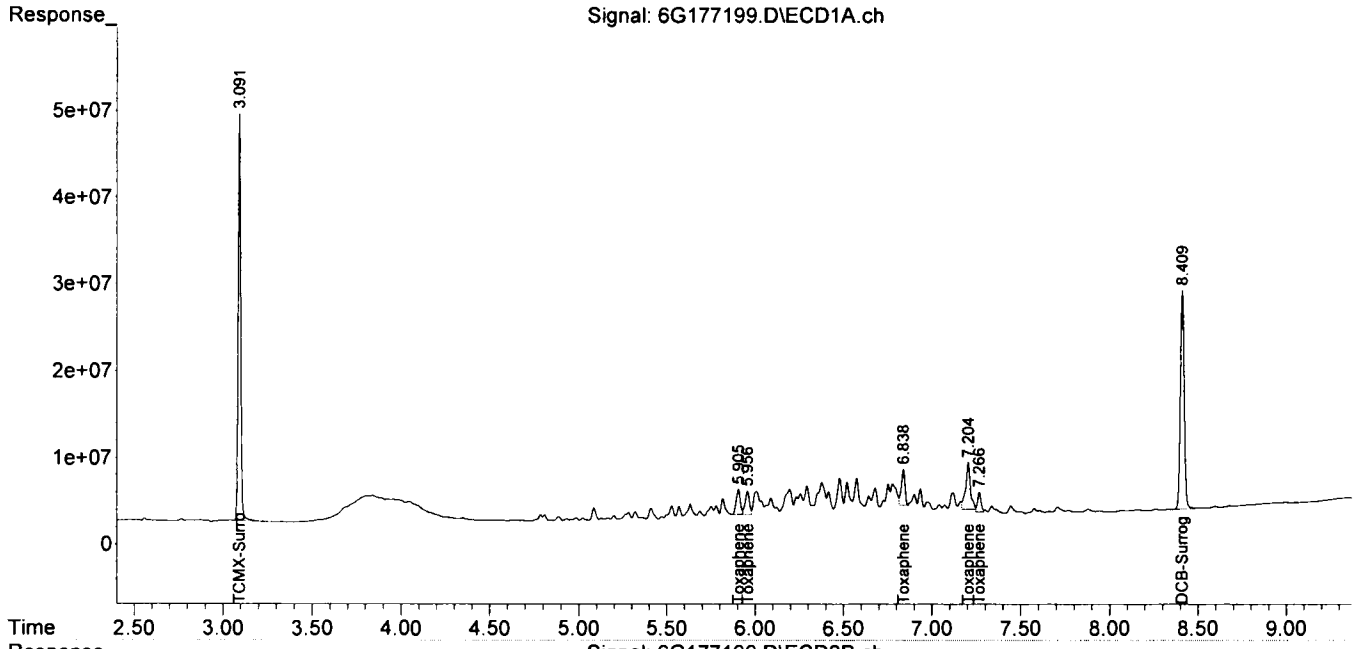
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

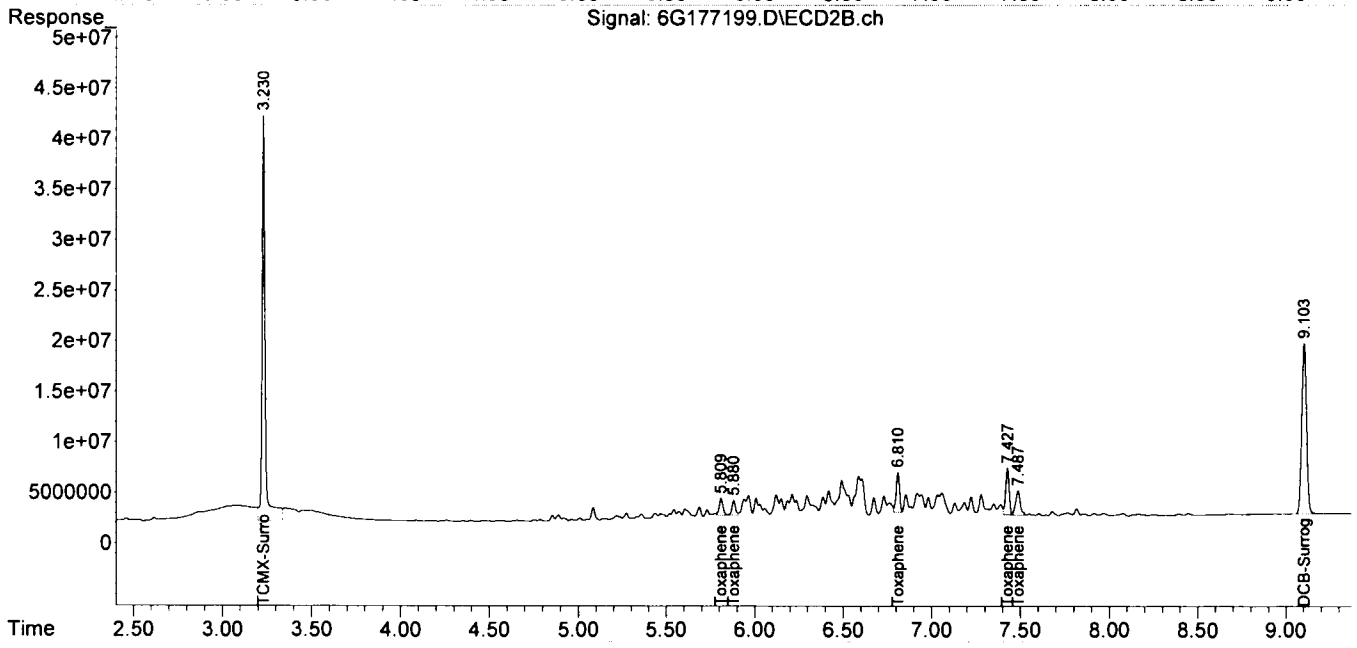
Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_6\DATA\0614-23\
Data File : 6G177199.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 13:11
Operator : AH/PR/KM
Sample : TOX ICV
Misc : S,PEST
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 14:24:37 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Mon Jun 26 14:17:27 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\0614-23\
Data File : 6G177198.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 12:59
Operator : AH/PR/KM
Sample : TOX@50PPB
Misc : S,PEST
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 14:35:47 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

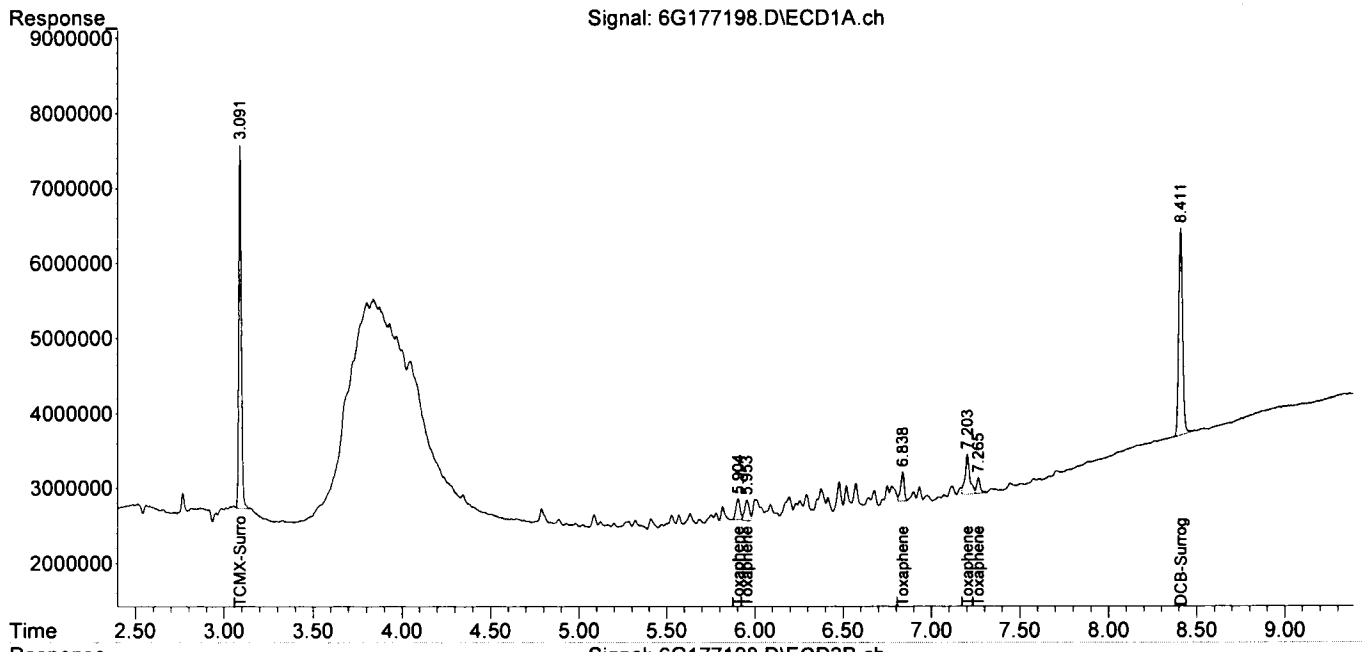
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.091	3.230	48680292	41864906	5.387m	5.499m
2)alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)gamma-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)Heptachlor Epoxid	0.000	0.000	0	0	N.D. d	N.D. d
9)y-chlordane	0.000	0.000	0	0	N.D. d	N.D. d
10)a-chlordane	0.000	0.000	0	0	N.D. d	N.D. d
11)Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
12)p,p'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)p,p'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)Endosulfan II	0.000	0.000	0	0	N.D. d	N.D. d
17)p,p'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)Endrin Aldehyde	0.000	0.000	0	0	N.D. d	N.D. d
19)Endosulfan Sulfat	0.000	0.000	0	0	N.D. d	N.D. d
20)Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)Endrin Ketone	0.000	0.000	0	0	N.D. d	N.D. d
22)DCB-Surrogate	8.411	9.103	42728238	35729427	5.481m	5.519m
23)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	5.905	5.809	4563410	2659039	53.936	50.227
27)Toxaphene {2}	5.953	5.879	4942801	2140098	59.075m	53.771
28)Toxaphene {3}	6.838	6.809	5517402	5169713	46.505m	51.301m
29)Toxaphene {4}	7.203	7.428	10184223	5236280	45.347m	44.290m
30)Toxaphene {5}	7.265	7.487	3077368	3425204	46.911m	37.998

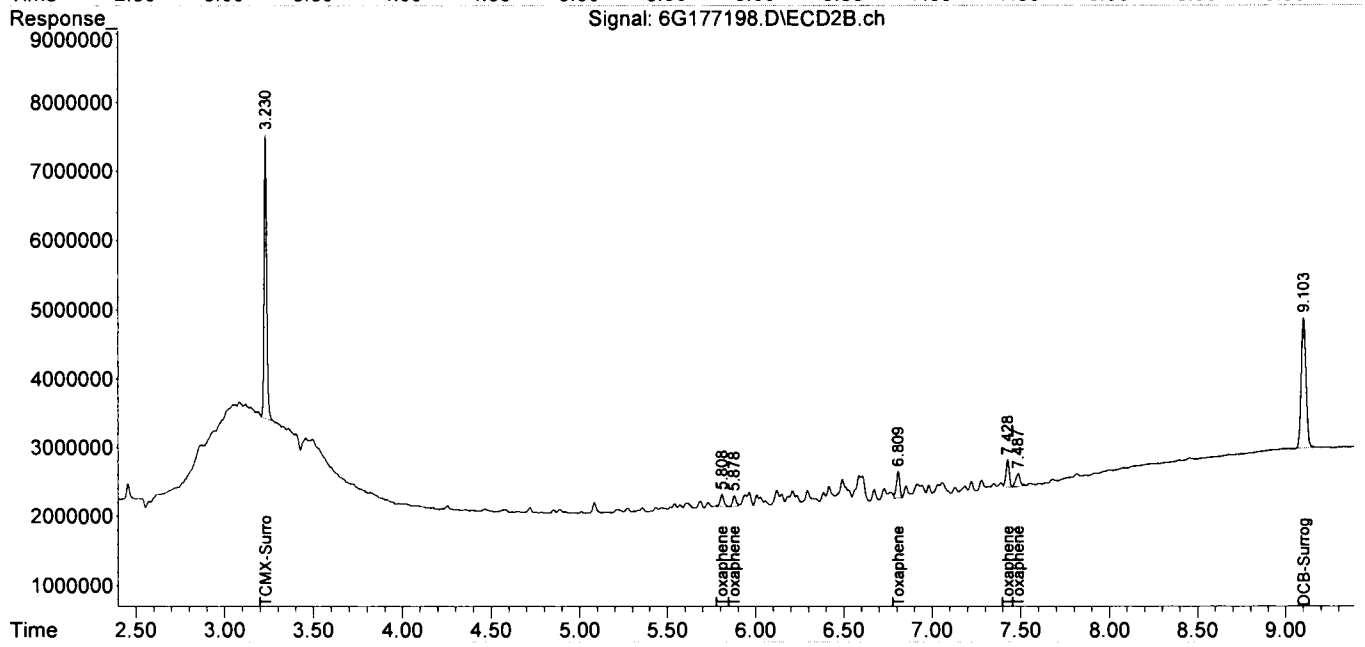
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2023\GC_6\Data\0614-23\
Data File : 6G177198.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 12:59
Operator : AH/PR/KM
Sample : TOX@50PPB
Misc : S,PEST
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 14:35:47 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0602-23\
Data File : 3G148103.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 15:27
Operator : AH//PR/KM
Sample : CAL EVAL
Misc : S,PEST
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 09:24:12 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

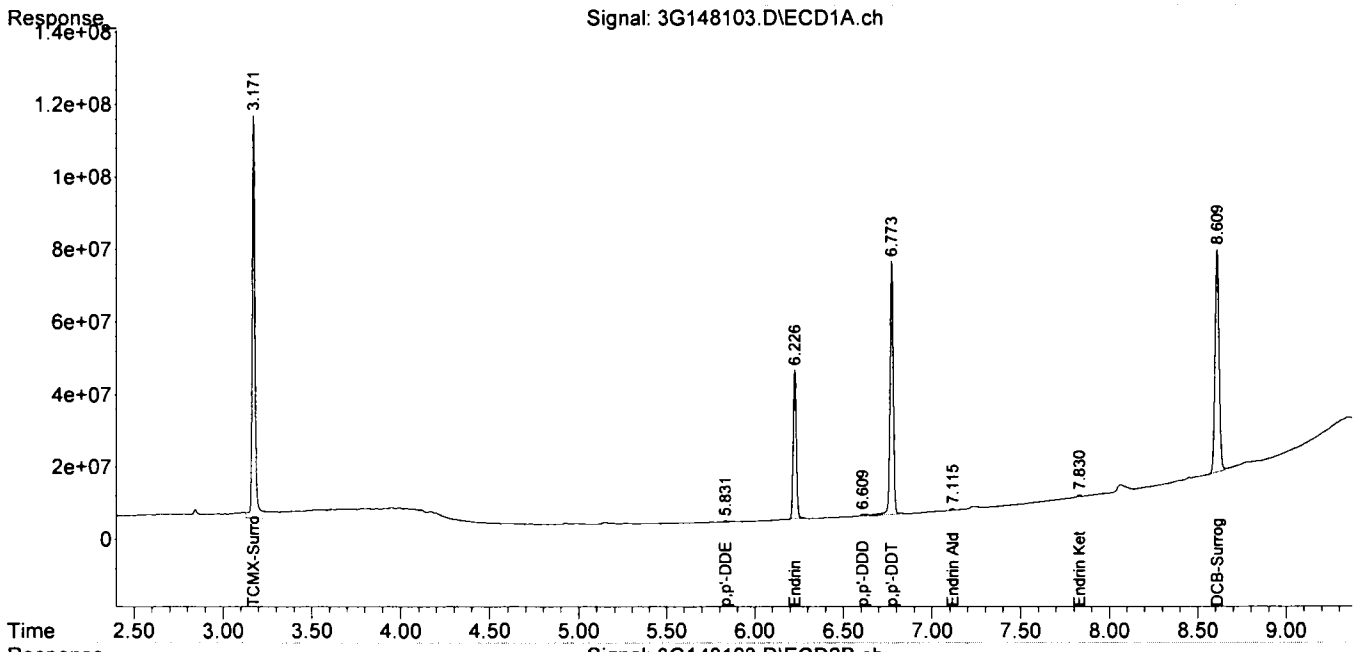
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.171	3.194	1241.3E6	893.1E6	126.843	99.634
12)p,p'-DDE	5.831	5.872	5495144	3216347	0.543m	0.367 #
14)Endrin	6.226	6.370	503.5E6	361.4E6	79.731m	61.779m
15)p,p'-DDD	6.609	6.436	7983641	8478268	0.862m	1.098m#
17)p,p'-DDT	6.774	6.746	895.9E6	711.1E6	175.263	122.393 #
18)Endrin Aldehyde	7.115	6.875	6650542	6414666	1.098m	0.988m
21)Endrin Ketone	7.830	7.808	6606269	7109445	0.726m	0.799m
22)DCB-Surrogate	8.609	9.070	980.1E6	661.1E6	105.998	86.160m

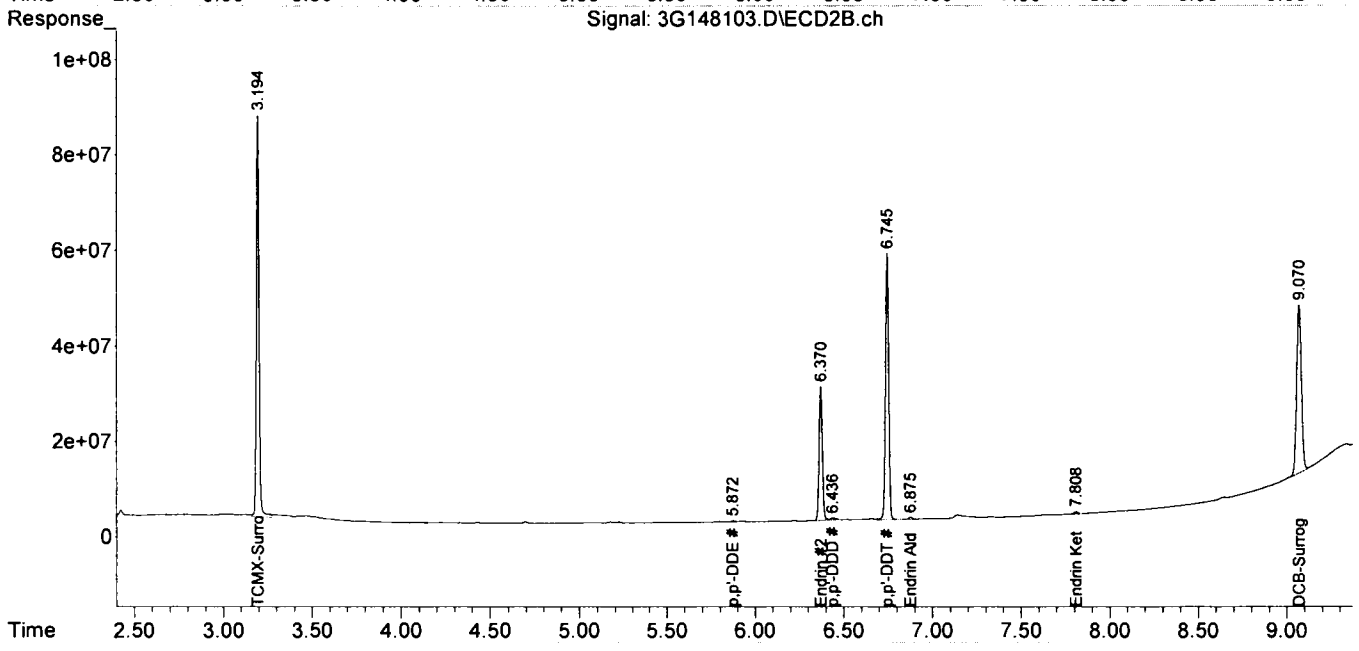
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2023\GC_3\Data\0602-23\
Data File : 3G148103.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 15:27
Operator : AH//PR/KM
Sample : CAL EVAL
Misc : S,PEST
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 09:24:12 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2023\GC_6\Data\0614-23\
Data File : 6G177184.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 10:13
Operator : AH/PR/KM
Sample : EVAL (Sig #1); CAL EVAL (Sig #2)
Misc : S,PEST
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 10:30:23 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Jun 15 16:40:36 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

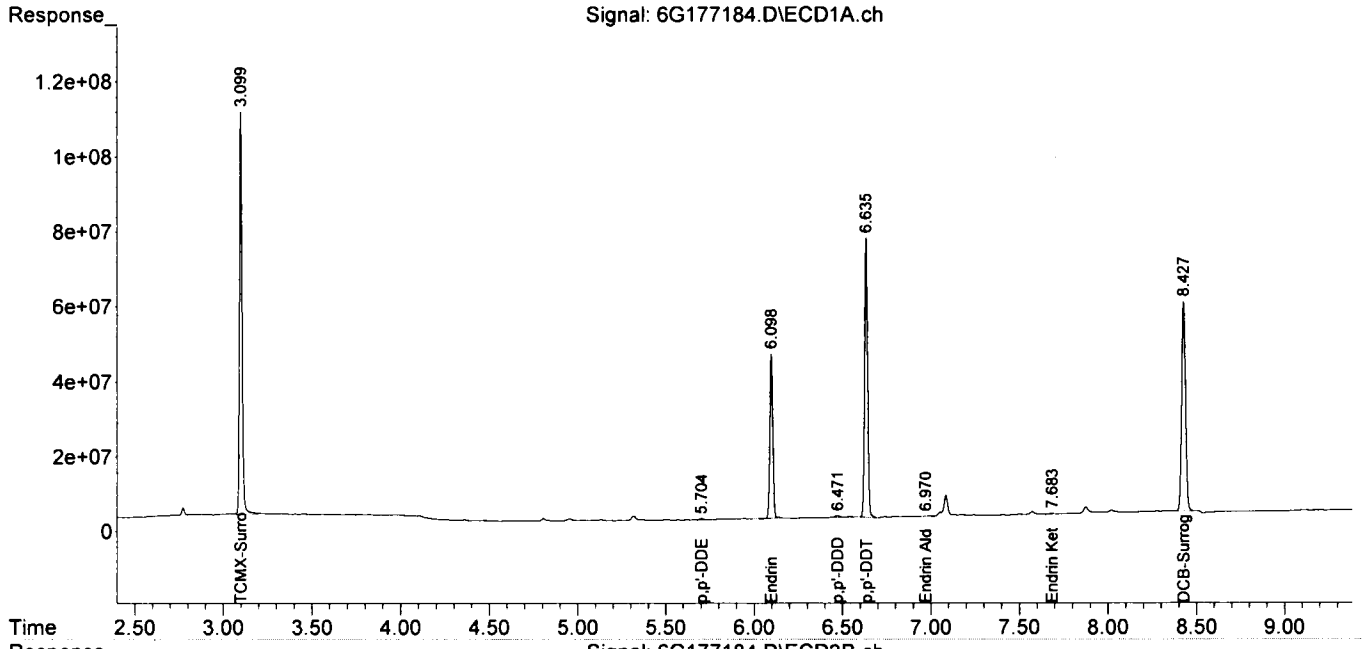
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.100	3.232	1114.1E6	864.8E6	118.253	109.788
12)p,p'-DDE	5.704	5.909	5438233	2475741	0.562	0.316m#
14)Endrin	6.098	6.408	519.0E6	468.2E6	56.783	65.716m
15)p,p'-DDD	6.471	6.466	10263293	7749027	1.292m	1.192m
17)p,p'-DDT	6.635	6.778	892.4E6	676.0E6	126.933	115.077m
18)Endrin Aldehyde	6.971	6.912	331175	1369711	0.061	0.271m#
21)Endrin Ketone	7.683	7.846	3701792	7361732	0.420m	0.997m#
22)DCB-Surrogate	8.427	9.116	857.5E6	721.4E6	108.281m	111.691

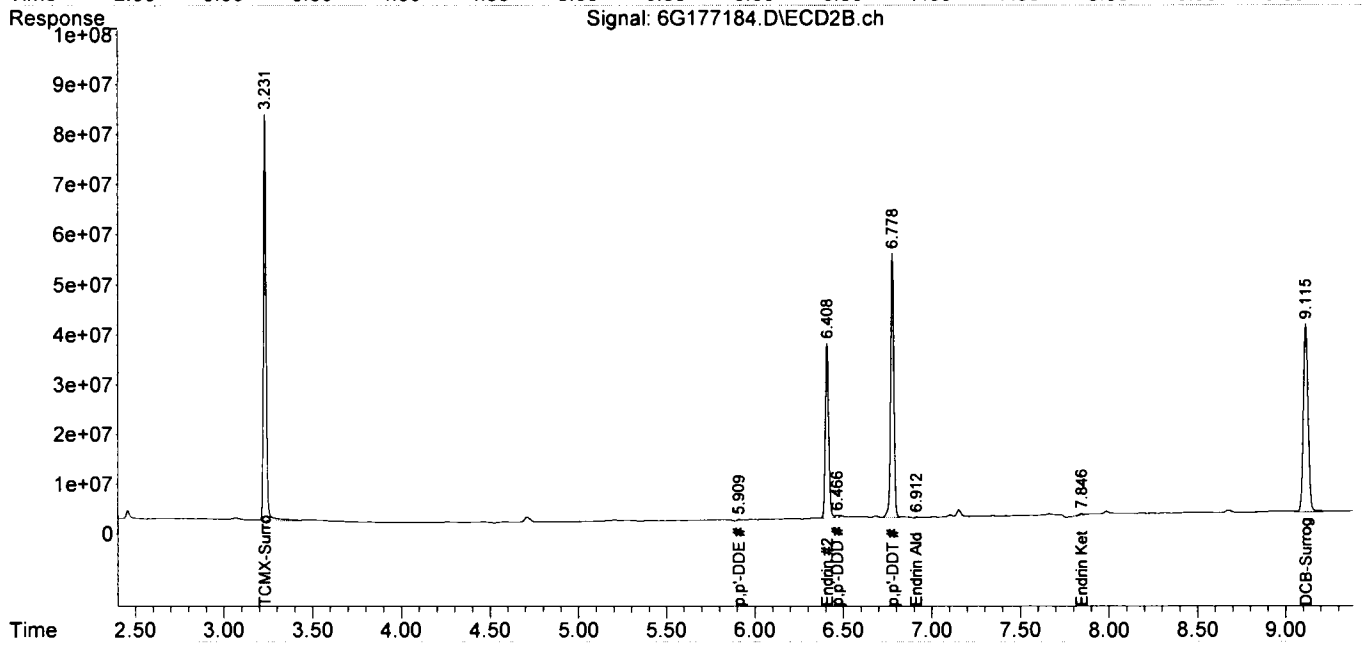
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2023\GC_6\Data\0614-23\
Data File : 6G177184.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 10:13
Operator : AH/PR/KM
Sample : EVAL (Sig #1); CAL EVAL (Sig #2)
Misc : S,PEST
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 10:30:23 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Jun 15 16:40:36 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2023\GC_6\Data\06-26-23\
Data File : 6G177631.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2023 02:01
Operator : AH/PR/KM
Sample : CAL EVAL
Misc : A,PEST
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 08:09:05 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Jun 15 16:40:36 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2	
	Target Compounds							
1)	TCMX-Surrogate	3.098	3.231	1029.2E6	792.5E6	109.241	100.616	
12)	p,p'-DDE	5.697	5.905	4377606	6884804	0.452	0.880	#
14)	Endrin	6.092	6.406	562.1E6	423.1E6	61.507	59.384	
15)	p,p'-DDD	6.464	6.467	23639582	20327125	2.977m	3.127	
17)	p,p'-DDT	6.627	6.777	394.4E6	272.1E6	56.091	46.683	
18)	Endrin Aldehyde	6.965	6.910	6099728	10623266	1.118	2.105	#
21)	Endrin Ketone	7.677	7.841	13944911	13166301	1.583m	1.783m	
22)	DCB-Surrogate	8.418	9.112	645.8E6	527.7E6	81.550	81.696	

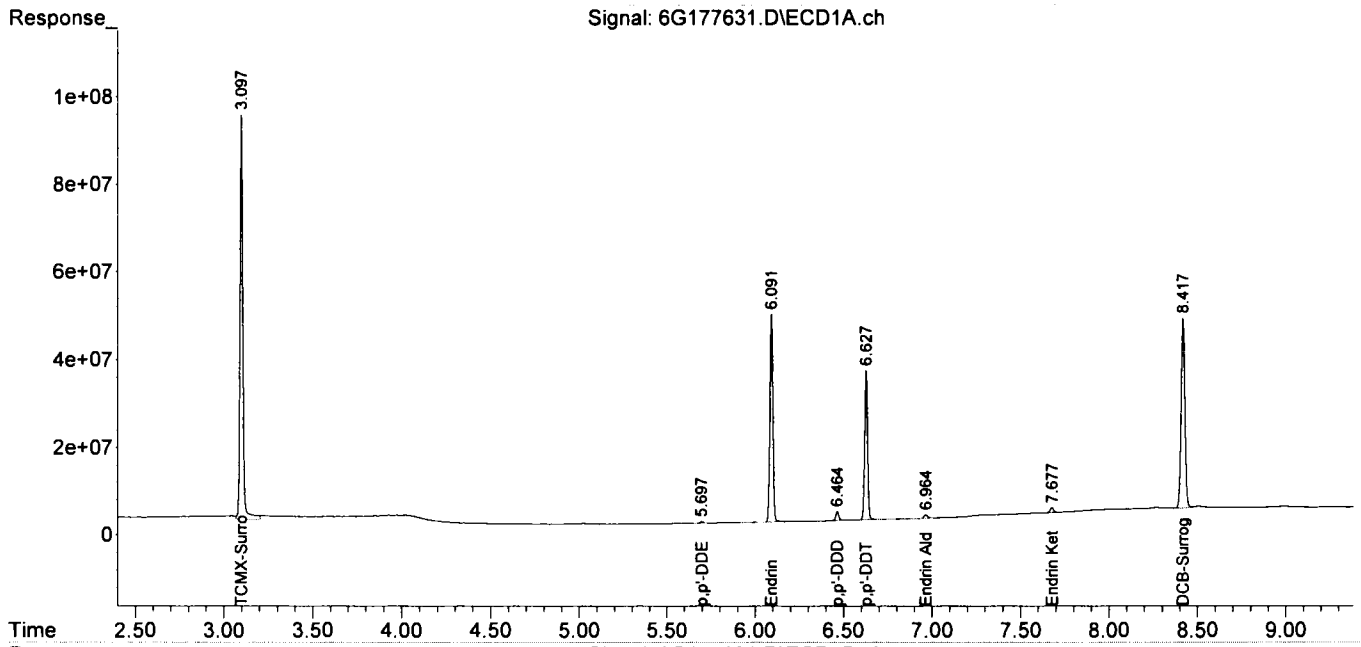
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

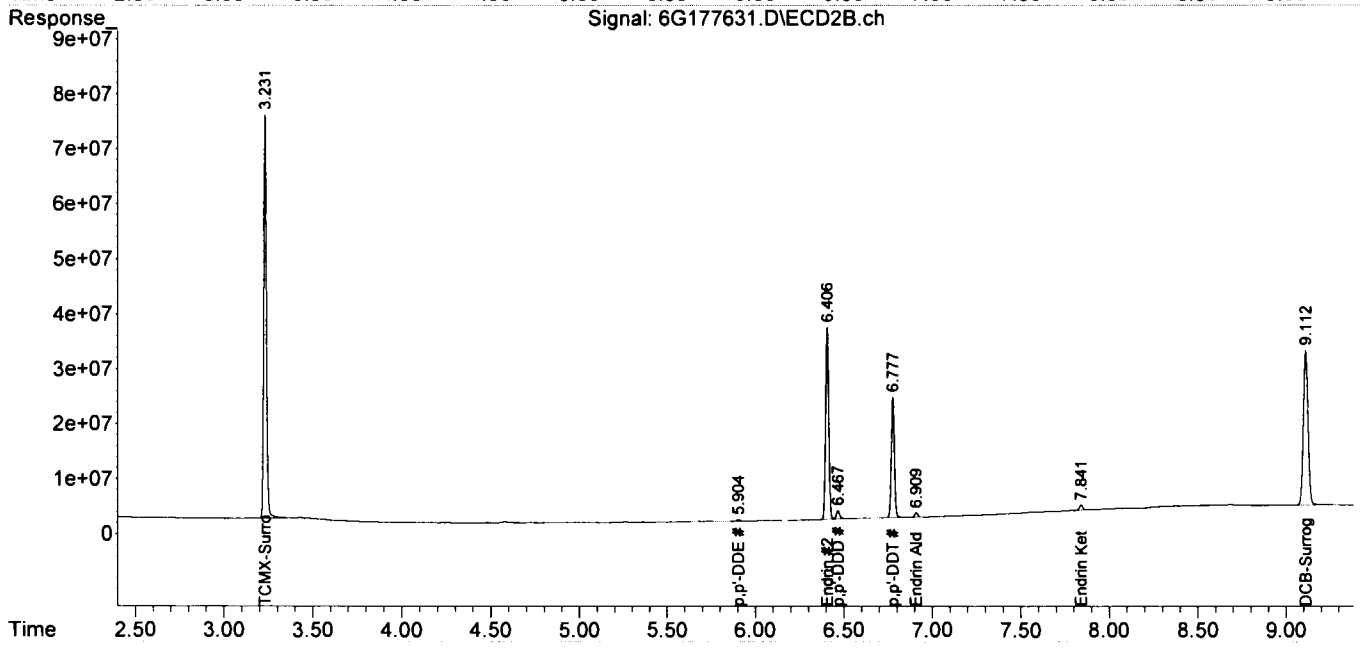
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\06-26-23\
Data File : 6G177631.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2023 02:01
Operator : AH/PR/KM
Sample : CAL EVAL
Misc : A,PEST
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 08:09:05 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Jun 15 16:40:36 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\06-26-23\
Data File : 3G149070.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2023 03:01
Operator : AH//PR/KM
Sample : CAL EVAL
Misc : S,PEST
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 08:27:25 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:43:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
	Target Compounds						
1)	TCMX-Surrogate	3.155	3.178	1129.9E6	944.6E6	113.258	110.530
12)	p,p'-DDE	5.790	5.845	6166239	5222741	0.592	0.650
14)	Endrin	6.190	6.342	671.7E6	524.5E6	73.585	76.841
15)	p,p'-DDD	6.565	6.407	7228720	3480091	0.851m	0.515m#
17)	p,p'-DDT	6.730	6.717	831.6E6	615.9E6	116.159m	100.777
18)	Endrin Aldehyde	7.069	6.847	9220709	9583649	1.473m	1.790
21)	Endrin Ketone	7.786	7.777	11890527	9612863	1.253m	1.258m
22)	DCB-Surrogate	8.554	9.029	847.0E6	634.4E6	90.249	98.164

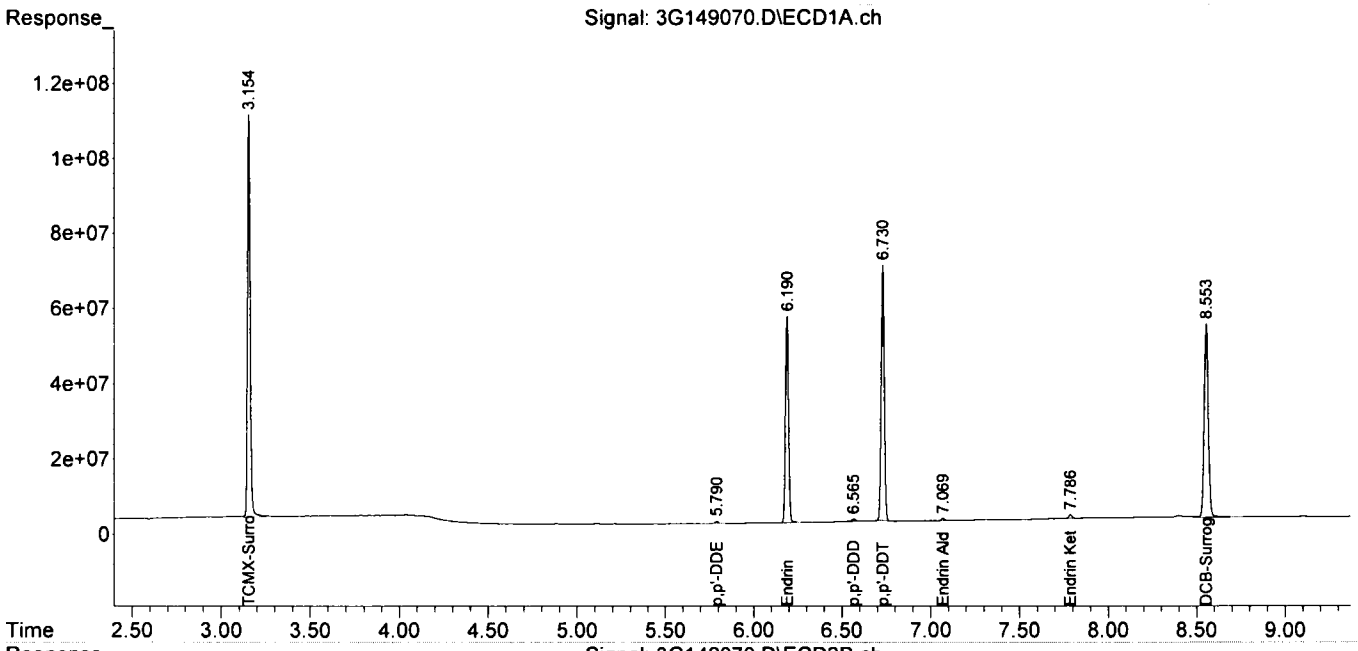
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

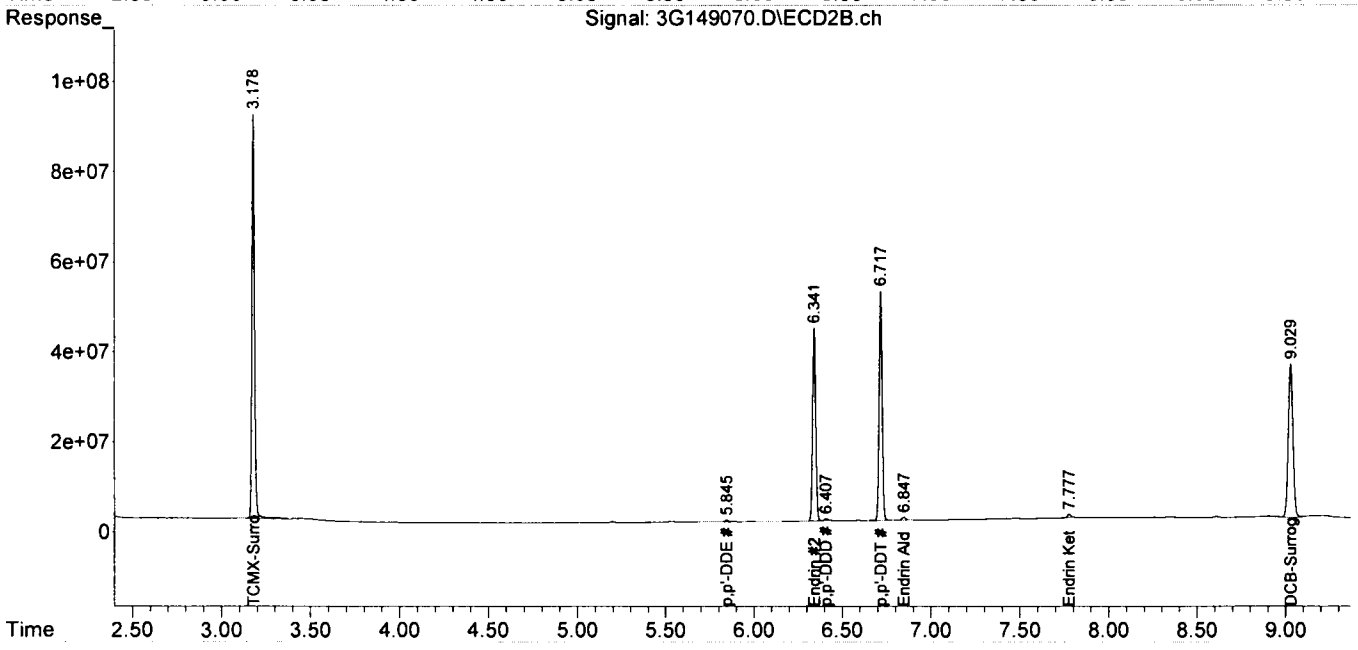
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\06-26-23\
Data File : 3G149070.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2023 03:01
Operator : AH//PR/KM
Sample : CAL EVAL
Misc : S,PEST
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 08:27:25 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:43:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





TxtDfile: 6G177199.D ICV FORM Date/Time: 06/14/23 13:11

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
TCMX-Surrogate	2	0		63.52	100	64	*	70	130
TCMX-Surrogate	1	0		50.73	100	51	*	70	130
alpha-BHC	1	0		0	100	0	*	70	130
alpha-BHC	2	0		0	100	0	*	70	130
gamma-BHC	2	0		0	100	0	*	70	130
gamma-BHC	1	0		0	100	0	*	70	130
beta-BHC	1	0		0	100	0	*	70	130
beta-BHC	2	0		0	100	0	*	70	130
Heptachlor	2	0		0	100	0	*	70	130
Heptachlor	1	0		0	100	0	*	70	130
delta-BHC	2	0		0	100	0	*	70	130
delta-BHC	1	0		0	100	0	*	70	130
Aldrin	1	0		0	100	0	*	70	130
Aldrin	2	0		0	100	0	*	70	130
Heptachlor Epoxide	2	0		0	100	0	*	70	130
Heptachlor Epoxide	1	0		0	100	0	*	70	130
y-chlordane	1	0		0	100	0	*	70	130
y-chlordane	2	0		0	100	0	*	70	130
a-chlordane	1	0		0	100	0	*	70	130
a-chlordane	2	0		0	100	0	*	70	130
Endosulfan I	2	0		0	100	0	*	70	130
Endosulfan I	1	0		0	100	0	*	70	130
p,p'-DDE	2	0		0	100	0	*	70	130
p,p'-DDE	1	0		0	100	0	*	70	130
Dieldrin	2	0		0	100	0	*	70	130
Dieldrin	1	0		0	100	0	*	70	130
Endrin	2	0		0	100	0	*	70	130
Endrin	1	0		0	100	0	*	70	130
p,p'-DDD	1	0		0	100	0	*	70	130
p,p'-DDD	2	0		0	100	0	*	70	130
Endosulfan II	2	0		0	100	0	*	70	130
Endosulfan II	1	0		0	100	0	*	70	130
p,p'-DDT	2	0		0	100	0	*	70	130
p,p'-DDT	1	0		0	100	0	*	70	130
Endrin Aldehyde	2	0		0	100	0	*	70	130
Endrin Aldehyde	1	0		0	100	0	*	70	130
Endosulfan Sulfate	2	0		0	100	0	*	70	130
Endosulfan Sulfate	1	0		0	100	0	*	70	130
Methoxychlor	2	0		0	100	0	*	70	130
Methoxychlor	1	0		0	100	0	*	70	130
Endrin Ketone	2	0		0	100	0	*	70	130
Endrin Ketone	1	0		0	100	0	*	70	130
DCB-Surrogate	2	0		49.8	100	50	*	70	130
DCB-Surrogate	1	0		49.44	100	49	*	70	130

TxtDfile: 6G177200.D ICV FORM Date/Time: 06/14/23 13:23

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
TCMX-Surrogate	1	0		103.86	100	104		70	130
TCMX-Surrogate	2	0		117.24	100	117		70	130
alpha-BHC	2	0		103.75	100	104		70	130
alpha-BHC	1	0		100.54	100	101		70	130
gamma-BHC	2	0		101.98	100	102		70	130
gamma-BHC	1	0		104.62	100	105		70	130
beta-BHC	2	0		99.33	100	99		70	130
beta-BHC	1	0		99.81	100	100		70	130
Heptachlor	1	0		103.18	100	103		70	130
Heptachlor	2	0		108.2	100	108		70	130
delta-BHC	1	0		103.79	100	104		70	130
delta-BHC	2	0		101.41	100	101		70	130
Aldrin	1	0		101.07	100	101		70	130
Aldrin	2	0		101.76	100	102		70	130
Heptachlor Epoxide	1	0		103.57	100	104		70	130
Heptachlor Epoxide	2	0		102.13	100	102		70	130
v-chlordane	2	0		92.86	100	93		70	130
v-chlordane	1	0		93.23	100	93		70	130
a-chlordane	1	0		104.41	100	104		70	130
a-chlordane	2	0		103.18	100	103		70	130
Endosulfan I	1	0		104.58	100	105		70	130
Endosulfan I	2	0		104.64	100	105		70	130
p,p'-DDE	2	0		106.08	100	106		70	130
p,p'-DDE	1	0		107.13	100	107		70	130
Dieldrin	2	0		97.14	100	97		70	130
Dieldrin	1	0		97.91	100	98		70	130
Endrin	2	0		99.45	100	99		70	130
Endrin	1	0		99.73	100	100		70	130
p,p'-DDD	2	0		99.42	100	99		70	130
p,p'-DDD	1	0		99.94	100	100		70	130
Endosulfan II	2	0		103.09	100	103		70	130
Endosulfan II	1	0		103.42	100	103		70	130
p,p'-DDT	1	0		109.26	100	109		70	130
p,p'-DDT	2	0		98.04	100	98		70	130
Endrin Aldehyde	2	0		115.17	100	115		70	130
Endrin Aldehyde	1	0		115.9	100	116		70	130
Endosulfan Sulfate	2	0		98.1	100	98		70	130
Endosulfan Sulfate	1	0		96.2	100	96		70	130
Methoxychlor	2	0		104.81	100	105		70	130
Methoxychlor	1	0		100.89	100	101		70	130
Endrin Ketone	1	0		99.17	100	99		70	130
Endrin Ketone	2	0		101.16	100	101		70	130
DCB-Surrogate	2	0		104.07	100	104		70	130
DCB-Surrogate	1	0		103.16	100	103		70	130

TxtDfile: 3G148120.D ICV FORM Date/Time: 06/02/23 18:47

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
TCMX-Surrogate	1	0		49.75	100	50	*	70	130
TCMX-Surrogate	2	0		49.76	100	50	*	70	130
alpha-BHC	1	0		0	100	0	*	70	130
alpha-BHC	2	0		0	100	0	*	70	130
gamma-BHC	2	0		0	100	0	*	70	130
gamma-BHC	1	0		0	100	0	*	70	130
beta-BHC	2	0		0	100	0	*	70	130
beta-BHC	1	0		0	100	0	*	70	130
Heptachlor	1	0		0	100	0	*	70	130
Heptachlor	2	0		0	100	0	*	70	130
delta-BHC	2	0		0	100	0	*	70	130
delta-BHC	1	0		0	100	0	*	70	130
Aldrin	1	0		0	100	0	*	70	130
Aldrin	2	0		0	100	0	*	70	130
Heptachlor Epoxide	1	0		0	100	0	*	70	130
Heptachlor Epoxide	2	0		0	100	0	*	70	130
v-chlordane	2	0		0	100	0	*	70	130
v-chlordane	1	0		0	100	0	*	70	130
a-chlordane	1	0		0	100	0	*	70	130
a-chlordane	2	0		0	100	0	*	70	130
Endosulfan I	2	0		0	100	0	*	70	130
Endosulfan I	1	0		0	100	0	*	70	130
p,p'-DDE	2	0		0	100	0	*	70	130
p,p'-DDE	1	0		0	100	0	*	70	130
Dieldrin	1	0		0	100	0	*	70	130
Dieldrin	2	0		0	100	0	*	70	130
Endrin	2	0		0	100	0	*	70	130
Endrin	1	0		0	100	0	*	70	130
p,p'-DDD	1	0		0	100	0	*	70	130
p,p'-DDD	2	0		0	100	0	*	70	130
Endosulfan II	2	0		0	100	0	*	70	130
Endosulfan II	1	0		0	100	0	*	70	130
p,p'-DDT	2	0		0	100	0	*	70	130
p,p'-DDT	1	0		0	100	0	*	70	130
Endrin Aldehyde	1	0		0	100	0	*	70	130
Endrin Aldehyde	2	0		0	100	0	*	70	130
Endosulfan Sulfate	1	0		0	100	0	*	70	130
Endosulfan Sulfate	2	0		0	100	0	*	70	130
Methoxychlor	2	0		0	100	0	*	70	130
Methoxychlor	1	0		0	100	0	*	70	130
Endrin Ketone	1	0		0	100	0	*	70	130
Endrin Ketone	2	0		0	100	0	*	70	130
DCB-Surrogate	1	0		49.63	100	50	*	70	130
DCB-Surrogate	2	0		50.7	100	51	*	70	130

TxtDfile: 3G148121.D ICV FORM Date/Time: 06/02/23 18:59

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
TCMX-Surrogate	2	0		100.17	100	100		70	130
TCMX-Surrogate	1	0		101.72	100	102		70	130
alpha-BHC	1	0		94.8	100	95		70	130
alpha-BHC	2	0		101.53	100	102		70	130
gamma-BHC	1	0		104.77	100	105		70	130
gamma-BHC	2	0		102.28	100	102		70	130
beta-BHC	1	0		96.3	100	96		70	130
beta-BHC	2	0		100.91	100	101		70	130
Heptachlor	1	0		97.2	100	97		70	130
Heptachlor	2	0		102.86	100	103		70	130
delta-BHC	1	0		98.89	100	99		70	130
delta-BHC	2	0		103.55	100	104		70	130
Aldrin	1	0		96.92	100	97		70	130
Aldrin	2	0		100.5	100	100		70	130
Heptachlor Epoxide	2	0		101.44	100	101		70	130
Heptachlor Epoxide	1	0		98.54	100	99		70	130
v-chlordane	1	0		88.03	100	88		70	130
v-chlordane	2	0		92.17	100	92		70	130
a-chlordane	2	0		102.39	100	102		70	130
a-chlordane	1	0		99.03	100	99		70	130
Endosulfan I	2	0		103.98	100	104		70	130
Endosulfan I	1	0		98.94	100	99		70	130
p,p'-DDE	2	0		105.78	100	106		70	130
p,p'-DDE	1	0		101.76	100	102		70	130
Dieldrin	1	0		93.16	100	93		70	130
Dieldrin	2	0		97.13	100	97		70	130
Endrin	1	0		88.37	100	88		70	130
Endrin	2	0		93.65	100	94		70	130
p,p'-DDD	2	0		97.3	100	97		70	130
p,p'-DDD	1	0		94.72	100	95		70	130
Endosulfan II	2	0		101.36	100	101		70	130
Endosulfan II	1	0		97.87	100	98		70	130
p,p'-DDT	2	0		106.14	100	106		70	130
p,p'-DDT	1	0		102.63	100	103		70	130
Endrin Aldehyde	2	0		117	100	117		70	130
Endrin Aldehyde	1	0		114.29	100	114		70	130
Endosulfan Sulfate	1	0		93.2	100	93		70	130
Endosulfan Sulfate	2	0		96.16	100	96		70	130
Methoxychlor	1	0		95.42	100	95		70	130
Methoxychlor	2	0		100.47	100	100		70	130
Endrin Ketone	2	0		101.54	100	102		70	130
Endrin Ketone	1	0		94.44	100	94		70	130
DCB-Surrogate	2	0		102.22	100	102		70	130
DCB-Surrogate	1	0		98.66	100	99		70	130

TxtDfile: 3G148122.D ICV FORM Date/Time: 06/02/23 19:10

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
TCMX-Surrogate	2	0		100.21	100	100		70	130
TCMX-Surrogate	1	0		100.38	100	100		70	130
alpha-BHC	2	0		101.7	100	102		70	130
alpha-BHC	1	0		94.51	100	95		70	130
gamma-BHC	2	0		102.38	100	102		70	130
gamma-BHC	1	0		97.76	100	98		70	130
beta-BHC	1	0		97.39	100	97		70	130
beta-BHC	2	0		100.9	100	101		70	130
Heptachlor	1	0		100.98	100	101		70	130
Heptachlor	2	0		102.76	100	103		70	130
delta-BHC	1	0		99.19	100	99		70	130
delta-BHC	2	0		103.55	100	104		70	130
Aldrin	2	0		100.53	100	101		70	130
Aldrin	1	0		98.67	100	99		70	130
Heptachlor Epoxide	1	0		98.73	100	99		70	130
Heptachlor Epoxide	2	0		101.27	100	101		70	130
v-chlordane	1	0		88.1	100	88		70	130
v-chlordane	2	0		92.1	100	92		70	130
a-chlordane	1	0		99.22	100	99		70	130
a-chlordane	2	0		102.27	100	102		70	130
Endosulfan I	1	0		98.72	100	99		70	130
Endosulfan I	2	0		104.02	100	104		70	130
p,p'-DDE	1	0		101.71	100	102		70	130
p,p'-DDE	2	0		105.88	100	106		70	130
Dieldrin	2	0		97.25	100	97		70	130
Dieldrin	1	0		93.26	100	93		70	130
Endrin	1	0		88.18	100	88		70	130
Endrin	2	0		93.69	100	94		70	130
p,p'-DDD	1	0		94.58	100	95		70	130
p,p'-DDD	2	0		97.88	100	98		70	130
Endosulfan II	1	0		98.07	100	98		70	130
Endosulfan II	2	0		101.97	100	102		70	130
p,p'-DDT	1	0		102.41	100	102		70	130
p,p'-DDT	2	0		106.5	100	107		70	130
Endrin Aldehyde	2	0		118.02	100	118		70	130
Endrin Aldehyde	1	0		113.93	100	114		70	130
Endosulfan Sulfate	2	0		96.82	100	97		70	130
Endosulfan Sulfate	1	0		92.19	100	92		70	130
Methoxychlor	2	0		98.7	100	99		70	130
Methoxychlor	1	0		93.23	100	93		70	130
Endrin Ketone	2	0		100.39	100	100		70	130
Endrin Ketone	1	0		95.23	100	95		70	130
DCB-Surrogate	2	0		102.82	100	103		70	130
DCB-Surrogate	1	0		97.99	100	98		70	130

Form7
Continuing Calibration

Method: EPA 8081B

Data File:				3G149072.D			3G149094.D			6G177633.D			6G177656.D						
Method:				8081			8081			8081			8081						
Calibration Name:				CAL PEST@100PP			CAL PEST@100PP			CAL PEST@100PP			CAL PEST@100PP						
Calibration Date/Time				06/26/23 03:25			06/26/23 08:27			06/26/23 02:25			06/26/23 07:45						
					Conc			Conc			Conc			Conc				Conc	
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
TCMX-Surrogate	20	1	0	109.9	100	9.9	107.4	100	7.4	105.3	100	5.3	112.5	100	12.5			
alpha-BHC	20	1	0	106.5	100	6.5	100.4	100	0.4	154.7	100	54.7*	110.2	100	10.2			
gamma-BHC	20	1	0	111.3	100	11.3	108.8	100	8.8	114.6	100	14.6	105.2	100	5.2			
beta-BHC	20	1	0	109.1	100	9.1	104.8	100	4.8	100.2	100	0.2	95.17	100	4.8			
Heptachlor	20	1	0	110.1	100	10.1	108.9	100	8.9	89.47	100	10.5	101.1	100	1.1			
delta-BHC	20	1	0	109.4	100	9.4	101.8	100	1.8	105.0	100	5.0	102.0	100	2.0			
Aldrin	20	1	0	112.4	100	12.4	110.5	100	10.5	108.5	100	8.5	101.9	100	1.9			
Heptachlor Epoxide	20	1	0	110.1	100	10.1	119.0	100	19.0	104	100	4.0	99.92	100	0.1			
y-chlordane	20	1	0	114.3	100	14.3	110.1	100	10.1	104.6	100	4.6	99.71	100	0.3			
a-chlordane	20	1	0	110.6	100	10.6	108.2	100	8.2	103.4	100	3.4	98.32	100	1.7			
Endosulfan I	20	1	0	110.5	100	10.5	108.3	100	8.3	104.1	100	4.1	100.0	100	0.0			
p,p'-DDE	20	1	0	113.3	100	13.3	109.9	100	9.9	106.0	100	6.0	100.9	100	0.9			
Dieldrin	20	1	0	110.9	100	10.9	111.6	100	11.6	106.1	100	6.1	101.2	100	1.2			
Endrin	20	1	0	115.2	100	15.2	117.4	100	17.4	95.87	100	4.1	104.2	100	4.2			
p,p'-DDD	20	1	0	111.4	100	11.4	110.6	100	10.6	106.0	100	6.0	104	100	4.0			
Endosulfan II	20	1	0	110.6	100	10.6	106	100	5.9	103.7	100	3.7	99.94	100	0.1			
p,p'-DDT	20	1	0	122.5	100	22.5*	124.1	100	24.1*	69.05	100	31.0*	94.79	100	5.2			
Endrin Aldehyde	20	1	0	97.43	100	2.6	101.3	100	1.3	106.8	100	6.8	97.96	100	2.0			
Endosulfan Sulfate	20	1	0	106	100	6.0	110.7	100	10.7	101.1	100	1.1	104.6	100	4.6			
Methoxychlor	20	1	0	113.5	100	13.5	137.7	100	37.7*	70.65	100	29.4*	95.13	100	4.9			
Endrin Ketone	20	1	0	107.1	100	7.1	104.2	100	4.2	102.6	100	2.6	104.8	100	4.8			
DCB-Surrogate	20	1	0	103.3	100	3.3	111.2	100	11.2	96.98	100	3.0	102.4	100	2.4			
Average Difference	20	1	0			10.5			10.6			9.8			3.4			
TCMX-Surrogate	20	2	0	106.4	100	6.4	93.99	100	6.0	128.3	100	28.3*	105.7	100	5.7			
alpha-BHC	20	2	0	117.5	100	17.5	98.9	100	1.1	109	100	9.0	101.2	100	1.2			
gamma-BHC	20	2	0	114.2	100	14.2	103.0	100	3.0	104.5	100	4.5	100.2	100	0.2			
beta-BHC	20	2	0	109.2	100	9.2	97.58	100	2.4	99.61	100	0.4	93.93	100	6.1			
Heptachlor	20	2	0	107.4	100	7.4	107.7	100	7.7	81.8	100	18.2	99.33	100	0.7			
delta-BHC	20	2	0	114.8	100	14.8	101.6	100	1.6	106.4	100	6.4	99.56	100	0.4			
Aldrin	20	2	0	115.9	100	15.9	103.9	100	3.9	107.6	100	7.6	99.89	100	0.1			
Heptachlor Epoxide	20	2	0	113.6	100	13.6	101.2	100	1.2	104.9	100	4.9	98.98	100	1.0			
y-chlordane	20	2	0	114.2	100	14.2	114.5	100	14.5	105	100	4.9	97.97	100	2.0			
a-chlordane	20	2	0	109.3	100	9.3	111.1	100	11.1	104.3	100	4.3	96.87	100	3.1			
Endosulfan I	20	2	0	114.1	100	14.1	107.8	100	7.8	104.2	100	4.2	98.58	100	1.4			
p,p'-DDE	20	2	0	116.4	100	16.4	105.8	100	5.8	105.7	100	5.7	99.56	100	0.4			
Dieldrin	20	2	0	117.5	100	17.5	112.3	100	12.3	105.9	100	5.9	100.3	100	0.3			
Endrin	20	2	0	123	100	23.0*	121.9	100	21.9*	94.4	100	5.6	105.6	100	5.6			
p,p'-DDD	20	2	0	113.6	100	13.6	111.7	100	11.7	105.6	100	5.6	104.3	100	4.3			
Endosulfan II	20	2	0	114.3	100	14.3	112.8	100	12.8	105.3	100	5.3	102.4	100	2.3			
p,p'-DDT	20	2	0	113	100	13.0	112.2	100	12.2	58.45	100	41.6*	86.77	100	13.2			
Endrin Aldehyde	20	2	0	108.3	100	8.3	117.8	100	17.8	104.7	100	4.7	99.93	100	0.1			
Endosulfan Sulfate	20	2	0	108.6	100	8.6	109.5	100	9.5	101.5	100	1.5	105.1	100	5.1			
Methoxychlor	20	2	0	110.7	100	10.7	109.5	100	9.5	66.5	100	33.5*	92.74	100	7.3			
Endrin Ketone	20	2	0	114.1	100	14.1	111	100	11.0	105	100	4.9	116.4	100	16.4			
DCB-Surrogate	20	2	0	114.4	100	14.4	118	100	18.0	95.91	100	4.1	98.22	100	1.8			
Average Difference	20	2	0			13.2			9.2			9.6			3.6			

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8081B

Data File:			3G148106.D		6G177198.D		3G149072.D		6G177633.D		
Calibration Name:			CAL PEST@2PPB		TOX@50PPB		CAL PEST@100PPB		CAL PEST@100PPB		
Calibration Date/Time			6/2/2023 4:02:00 PM		6/14/2023 12:59:00 PM		6/26/2023 3:25:00 AM		6/26/2023 2:25:00 AM		
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
TCMX-Surrogate	1	0	3.16	(3.10 - 3.22)	3.09	(3.03 - 3.15)	3.14	(3.08 - 3.20)	3.09	(3.03 - 3.15)		
alpha-BHC	1	0	3.92	(3.88 - 3.96)	3.84	(3.80 - 3.88)	3.90	(3.86 - 3.94)	3.84	(3.80 - 3.88)		
gamma-BHC	1	0	4.28	(4.24 - 4.32)	4.19	(4.15 - 4.23)	4.26	(4.22 - 4.30)	4.19	(4.15 - 4.23)		
beta-BHC	1	0	4.94	(4.86 - 5.02)	4.84	(4.76 - 4.92)	4.91	(4.83 - 4.99)	4.84	(4.76 - 4.92)		
Heptachlor	1	0	4.48	(4.44 - 4.52)	4.38	(4.34 - 4.42)	4.45	(4.41 - 4.49)	4.38	(4.34 - 4.42)		
delta-BHC	1	0	5.19	(5.11 - 5.27)	5.09	(5.01 - 5.17)	5.17	(5.09 - 5.25)	5.09	(5.01 - 5.17)		
Aldrin	1	0	4.74	(4.66 - 4.82)	4.64	(4.56 - 4.72)	4.72	(4.64 - 4.80)	4.64	(4.56 - 4.72)		
Heptachlor Epoxide	1	0	5.38	(5.34 - 5.42)	5.27	(5.23 - 5.31)	5.35	(5.31 - 5.39)	5.26	(5.22 - 5.30)		
v-chlordane	1	0	5.69	(5.65 - 5.73)	5.57	(5.53 - 5.61)	5.66	(5.62 - 5.70)	5.57	(5.53 - 5.61)		
a-chlordane	1	0	5.74	(5.70 - 5.78)	5.63	(5.59 - 5.67)	5.71	(5.67 - 5.75)	5.62	(5.58 - 5.66)		
Endosulfan I	1	0	5.65	(5.61 - 5.69)	5.54	(5.50 - 5.58)	5.62	(5.58 - 5.66)	5.53	(5.49 - 5.57)		
p,p'-DDE	1	0	5.81	(5.73 - 5.89)	5.69	(5.61 - 5.77)	5.77	(5.69 - 5.85)	5.68	(5.60 - 5.76)		
Dieldrin	1	0	6.00	(5.92 - 6.08)	5.88	(5.80 - 5.96)	5.97	(5.89 - 6.05)	5.88	(5.80 - 5.96)		
Endrin	1	0	6.20	(6.16 - 6.24)	6.09	(6.05 - 6.13)	6.17	(6.13 - 6.21)	6.08	(6.04 - 6.12)		
p,p'-DDD	1	0	6.58	(6.50 - 6.66)	6.46	(6.38 - 6.54)	6.55	(6.47 - 6.63)	6.45	(6.37 - 6.53)		
Endosulfan II	1	0	6.67	(6.59 - 6.75)	6.55	(6.47 - 6.63)	6.64	(6.56 - 6.72)	6.54	(6.46 - 6.62)		
p,p'-DDT	1	0	6.75	(6.67 - 6.83)	6.62	(6.54 - 6.70)	6.71	(6.63 - 6.79)	6.61	(6.53 - 6.69)		
Endrin Aldehyde	1	0	7.09	(7.01 - 7.17)	6.96	(6.88 - 7.04)	7.05	(6.97 - 7.13)	6.95	(6.87 - 7.03)		
Endosulfan Sulfate	1	0	7.40	(7.36 - 7.44)	7.27	(7.23 - 7.31)	7.36	(7.32 - 7.40)	7.26	(7.22 - 7.30)		
Methoxychlor	1	0	7.34	(7.30 - 7.38)	7.20	(7.16 - 7.24)	7.30	(7.26 - 7.34)	7.19	(7.15 - 7.23)		
Endrin Ketone	1	0	7.81	(7.73 - 7.89)	7.67	(7.59 - 7.75)	7.77	(7.69 - 7.85)	7.67	(7.59 - 7.75)		
DCB-Surrogate	1	0	8.58	(8.52 - 8.64)	8.41	(8.35 - 8.47)	8.54	(8.48 - 8.60)	8.40	(8.34 - 8.46)		
Chlordane (Technical	1	1										
Chlordane (Technical	1	2										
Chlordane (Technical	1	3										
Toxaphene	1	1			5.91	(5.87 - 5.95)			5.88	(5.84 - 5.92)		
Toxaphene	1	2			5.95	(5.91 - 5.99)			5.98	(5.94 - 6.02)		
Toxaphene	1	3			6.84	(6.80 - 6.88)						
Toxaphene	1	4			7.20	(7.16 - 7.24)			7.19	(7.15 - 7.23)		
Toxaphene	1	5			7.27	(7.23 - 7.31)			7.26	(7.22 - 7.30)		
TCMX-Surrogate	2	0	3.19	(3.13 - 3.25)	3.23	(3.17 - 3.29)	3.18	(3.12 - 3.24)	3.23	(3.17 - 3.29)		
alpha-BHC	2	0	3.78	(3.74 - 3.82)	3.82	(3.78 - 3.86)	3.76	(3.72 - 3.80)	3.82	(3.78 - 3.86)		
gamma-BHC	2	0	4.14	(4.10 - 4.18)	4.18	(4.14 - 4.22)	4.12	(4.08 - 4.16)	4.18	(4.14 - 4.22)		
beta-BHC	2	0	4.19	(4.11 - 4.27)	4.23	(4.15 - 4.31)	4.17	(4.09 - 4.25)	4.23	(4.15 - 4.31)		
Heptachlor	2	0	4.45	(4.41 - 4.49)	4.50	(4.46 - 4.54)	4.43	(4.39 - 4.47)	4.50	(4.46 - 4.54)		
delta-BHC	2	0	4.54	(4.46 - 4.62)	4.58	(4.50 - 4.66)	4.52	(4.44 - 4.60)	4.58	(4.50 - 4.66)		
Aldrin	2	0	4.78	(4.70 - 4.86)	4.82	(4.74 - 4.90)	4.76	(4.68 - 4.84)	4.82	(4.74 - 4.90)		
Heptachlor Epoxide	2	0	5.32	(5.28 - 5.36)	5.36	(5.32 - 5.40)	5.30	(5.26 - 5.34)	5.36	(5.32 - 5.40)		
v-chlordane	2	0	5.48	(5.44 - 5.52)	5.52	(5.48 - 5.56)	5.45	(5.41 - 5.49)	5.52	(5.48 - 5.56)		
a-chlordane	2	0	5.64	(5.60 - 5.68)	5.68	(5.64 - 5.72)	5.65	(5.61 - 5.69)	5.68	(5.64 - 5.72)		
Endosulfan I	2	0	5.68	(5.64 - 5.72)	5.72	(5.68 - 5.76)	5.65	(5.61 - 5.69)	5.72	(5.68 - 5.76)		
p,p'-DDE	2	0	5.86	(5.78 - 5.94)	5.90	(5.82 - 5.98)	5.84	(5.76 - 5.92)	5.90	(5.82 - 5.98)		
Dieldrin	2	0	5.98	(5.90 - 6.06)	6.03	(5.95 - 6.11)	5.96	(5.88 - 6.04)	6.02	(5.94 - 6.10)		
Endrin	2	0	6.36	(6.32 - 6.40)	6.40	(6.36 - 6.44)	6.33	(6.29 - 6.37)	6.40	(6.36 - 6.44)		
p,p'-DDD	2	0	6.42	(6.34 - 6.50)	6.46	(6.38 - 6.54)	6.40	(6.32 - 6.48)	6.46	(6.38 - 6.54)		
Endosulfan II	2	0	6.54	(6.46 - 6.62)	6.58	(6.50 - 6.66)	6.51	(6.43 - 6.59)	6.58	(6.50 - 6.66)		
p,p'-DDT	2	0	6.73	(6.65 - 6.81)	6.77	(6.69 - 8.85)	6.71	(6.63 - 6.79)	6.77	(6.69 - 6.85)		
Endrin Aldehyde	2	0	6.86	(6.78 - 6.94)	6.90	(6.82 - 6.98)	6.84	(6.76 - 6.92)	6.90	(6.82 - 6.98)		
Endosulfan Sulfate	2	0	6.99	(6.95 - 7.03)	7.03	(6.99 - 7.07)	6.96	(6.92 - 7.00)	7.03	(6.99 - 7.07)		
Methoxychlor	2	0	7.61	(7.57 - 7.65)	7.65	(7.61 - 7.69)	7.59	(7.55 - 7.63)	7.64	(7.60 - 7.68)		
Endrin Ketone	2	0	7.80	(7.72 - 7.88)	7.84	(7.76 - 7.92)	7.77	(7.69 - 7.85)	7.84	(7.76 - 7.92)		
DCB-Surrogate	2	0	9.05	(8.99 - 9.11)	9.11	(9.05 - 9.17)	9.02	(8.96 - 9.08)	9.10	(9.04 - 9.16)		
Chlordane (Technical	2	1										
Chlordane (Technical	2	2										
Chlordane (Technical	2	3										
Toxaphene	2	1			5.81	(5.77 - 5.85)						
Toxaphene	2	2			5.88	(5.84 - 5.92)			5.90	(5.86 - 5.94)		
Toxaphene	2	3			6.81	(6.77 - 6.85)			6.77	(8.73 - 6.81)		
Toxaphene	2	4			7.43	(7.39 - 7.47)						
Toxaphene	2	5			7.49	(7.45 - 7.53)			7.51	(7.47 - 7.55)		

Data Path : G:\Gcdata\2023\GC_6\Data\06-26-23\
Data File : 6G177633.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2023 02:25
Operator : AH/PR/KM
Sample : CAL PEST@100PPB
Misc : A,PEST:0.5
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 08:09:13 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Jun 15 16:40:36 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2	
Target Compounds							
1)TCMX-Surrogate	3.090	3.231	991.7E6	1010.3E6	105.269	128.266	
2)alpha-BHC	3.838	3.820	2068.2E6	1171.7E6	154.743	108.980	#
3)gamma-BHC	4.188	4.179	1377.1E6	1016.1E6	114.631	104.477	
4)beta-BHC	4.839	4.226	536.0E6	445.3E6	100.171	99.610	
5)Heptachlor	4.379	4.495	965.4E6	648.4E6	89.469	81.805	
6)delta-BHC	5.088	4.584	1200.6E6	1025.0E6	105.008	106.379	
7)Aldrin	4.637	4.822	1210.9E6	966.0E6	108.484	107.613	
8)Heptachlor Epoxid	5.262	5.359	1034.1E6	835.9E6	103.970	104.868	
9)y-chlordane	5.568	5.518	1036.7E6	843.7E6	104.573	104.945	
10)a-chlordane	5.619	5.676	1012.2E6	823.7E6	103.370	104.275	
11)Endosulfan I	5.530	5.718	939.8E6	779.1E6	104.064	104.205	
12)p,p'-DDE	5.685	5.900	1026.7E6	827.5E6	106.012	105.731	
13)Dieldrin	5.878	6.025	1076.3E6	868.5E6	106.081	105.909	
14)Endrin	6.080	6.401	876.1E6	672.5E6	95.866	94.396	
15)p,p'-DDD	6.452	6.461	841.9E6	686.8E6	106.012	105.635	
16)Endosulfan II	6.543	6.576	870.4E6	722.9E6	103.715	105.250	
17)p,p'-DDT	6.614	6.772	485.5E6	341.1E6	69.054	58.448	
18)Endrin Aldehyde	6.952	6.904	582.9E6	528.6E6	106.844	104.727	
19)Endosulfan Sulfat	7.258	7.026	770.9E6	625.0E6	101.067	101.474	
20)Methoxychlor	7.192	7.645	283.1E6	183.2E6	70.645	66.498	
21)Endrin Ketone	7.665	7.835	903.4E6	775.2E6	102.577	104.952	
22)DCB-Surrogate	8.404	9.103	768.0E6	619.5E6	96.976	95.908	
23)Chlordane (Techni	4.379	4.226f	965.4E6	445.3E6	1808.199	1531.984	
24)Chlordane (Techni	5.568	5.518	1036.7E6	843.7E6	990.470	898.763	
25)Chlordane (Techni	5.619	5.676	1012.2E6	823.7E6	672.524	1191.048	#
26)Toxaphene {1}	5.878	0.000	1076.3E6	0	11094.913	N.D.	#
27)Toxaphene {2}	5.976	5.900	1088640	827.5E6	11.408	19345.327	#
28)Toxaphene {3}	0.000	6.772f	0	341.1E6	N.D.	3120.169	#
29)Toxaphene {4}	7.192	0.000	283.1E6	0	1170.267	N.D.	#
30)Toxaphene {5}	7.258	7.510	770.9E6	10663076	10459.563	113.199	#

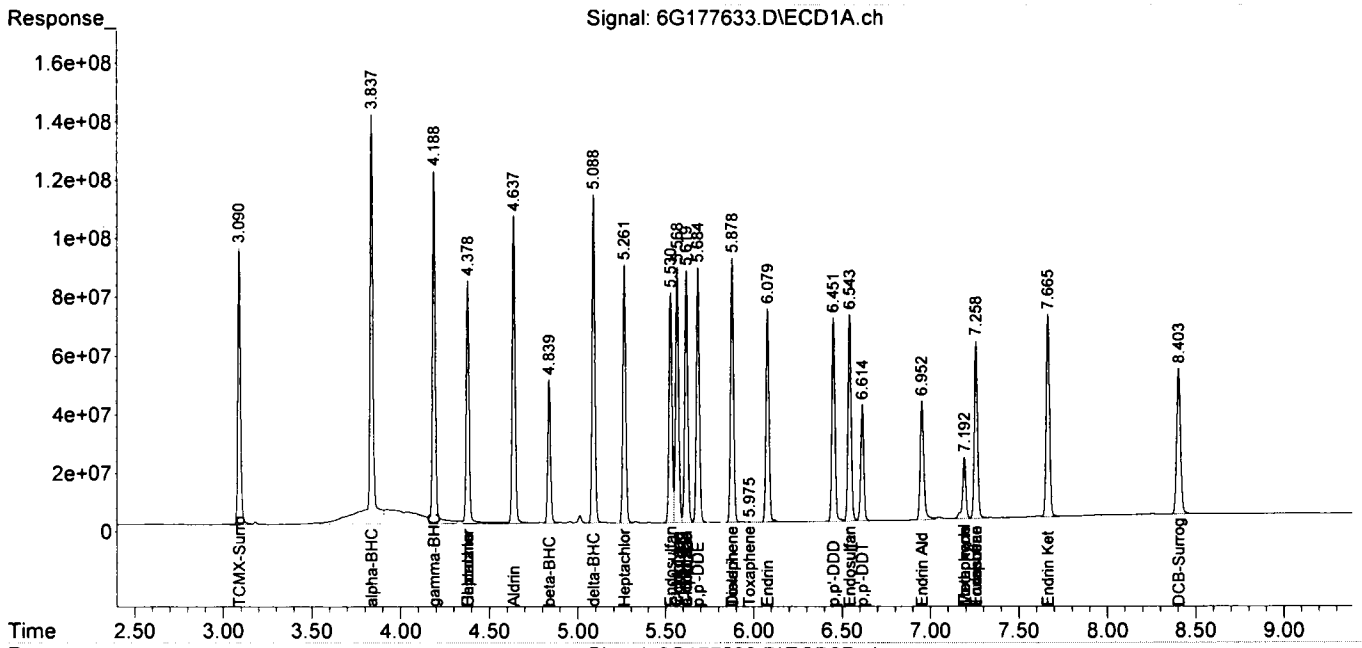
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

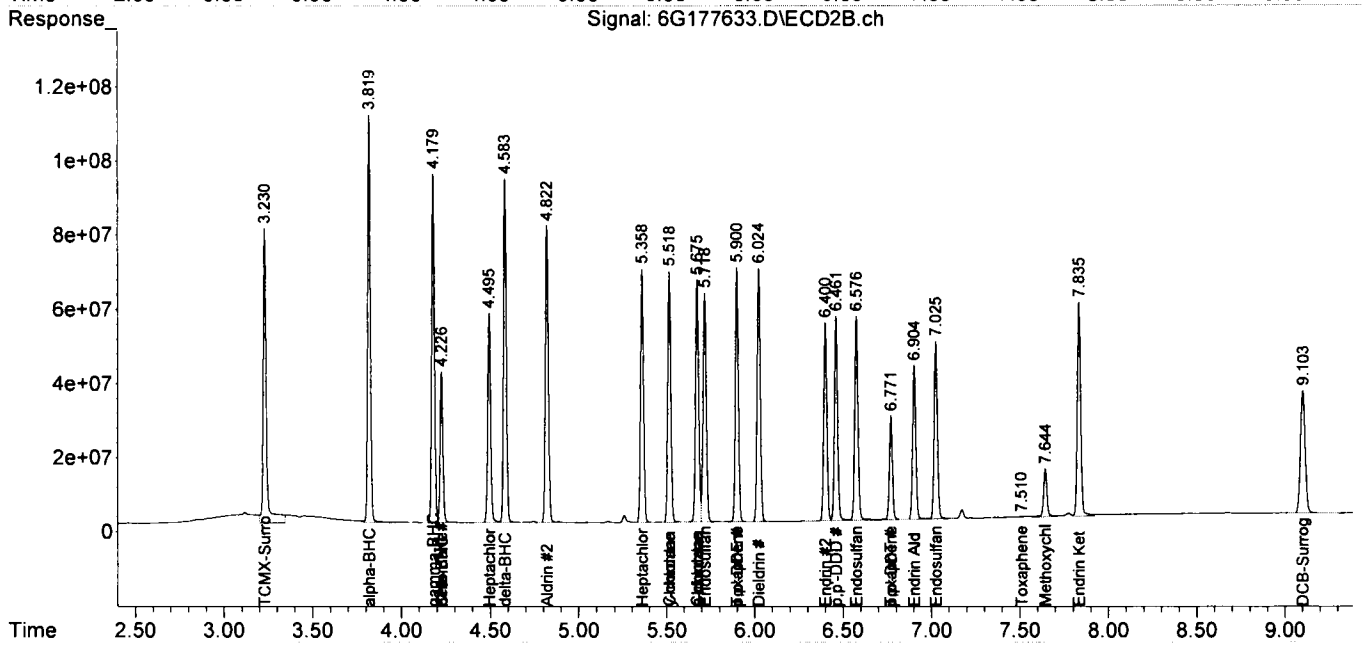
Quantitation Report (Not Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\06-26-23\
Data File : 6G177633.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2023 02:25
Operator : AH/PR/KM
Sample : CAL PEST@100PPB
Misc : A,PEST:0.5
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 08:09:13 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Jun 15 16:40:36 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\06-26-23\
Data File : 3G149072.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2023 03:25
Operator : AH//PR/KM
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 08:32:28 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:43:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.145	3.177	1096.0E6	909.5E6	109.857	106.418m
2)alpha-BHC	3.903	3.763	1555.6E6	1349.5E6	106.463m	117.487
3)gamma-BHC	4.258	4.121	1420.8E6	1168.6E6	111.256m	114.224
4)beta-BHC	4.913	4.168	606.6E6	500.6E6	109.133	109.190
5)Heptachlor	4.454	4.434	1367.2E6	1030.4E6	110.110	107.391
6)delta-BHC	5.166	4.524	1319.2E6	1125.3E6	109.358	114.841
7)Aldrin	4.717	4.759	1349.7E6	1091.4E6	112.442	115.898
8)Heptachlor Epoxid	5.347	5.296	1199.9E6	961.3E6	110.113	113.600
9)y-chlordane	5.655	5.455	1226.3E6	951.9E6	114.321m	114.223
10)a-chlordane	5.707	5.654	1165.3E6	885.5E6	110.597	109.262
11)Endosulfan I	5.619	5.654	1089.8E6	885.5E6	110.453m	114.065
12)p,p'-DDE	5.775	5.839	1179.4E6	934.8E6	113.287	116.372
13)Dieldrin	5.970	5.960	1221.6E6	995.1E6	110.941m	117.455
14)Endrin	6.173	6.335	1051.6E6	839.5E6	115.205m	122.988m
15)p,p'-DDD	6.547	6.400	946.4E6	768.4E6	111.418	113.625
16)Endosulfan II	6.639	6.511	1016.8E6	814.0E6	110.577	114.340
17)p,p'-DDT	6.713	6.710	876.9E6	690.4E6	122.491m	112.974
18)Endrin Aldehyde	7.052	6.839	610.0E6	580.0E6	97.426	108.335
19)Endosulfan Sulfat	7.361	6.962	880.9E6	670.2E6	105.987	108.553
20)Methoxychlor	7.295	7.586	438.9E6	370.1E6	113.537m	110.655
21)Endrin Ketone	7.770	7.768	1016.0E6	871.7E6	107.057	114.089
22)DCB-Surrogate	8.536	9.018	969.8E6	739.3E6	103.334	114.381

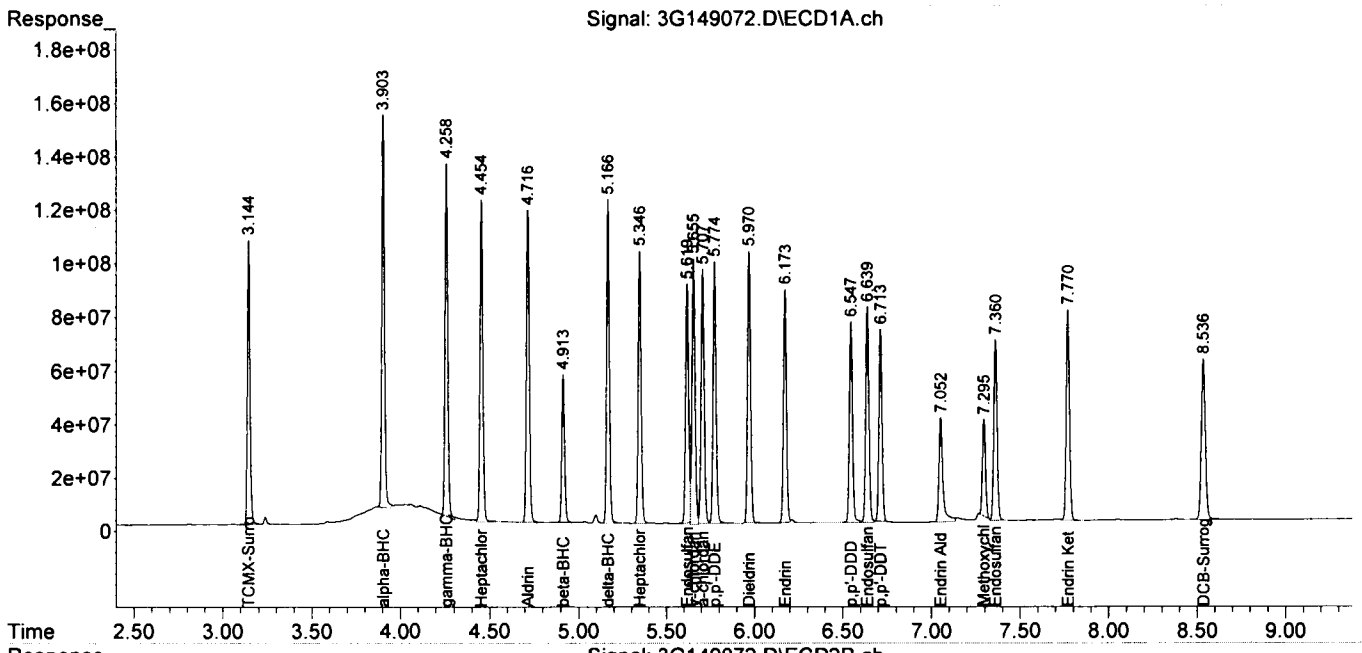
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

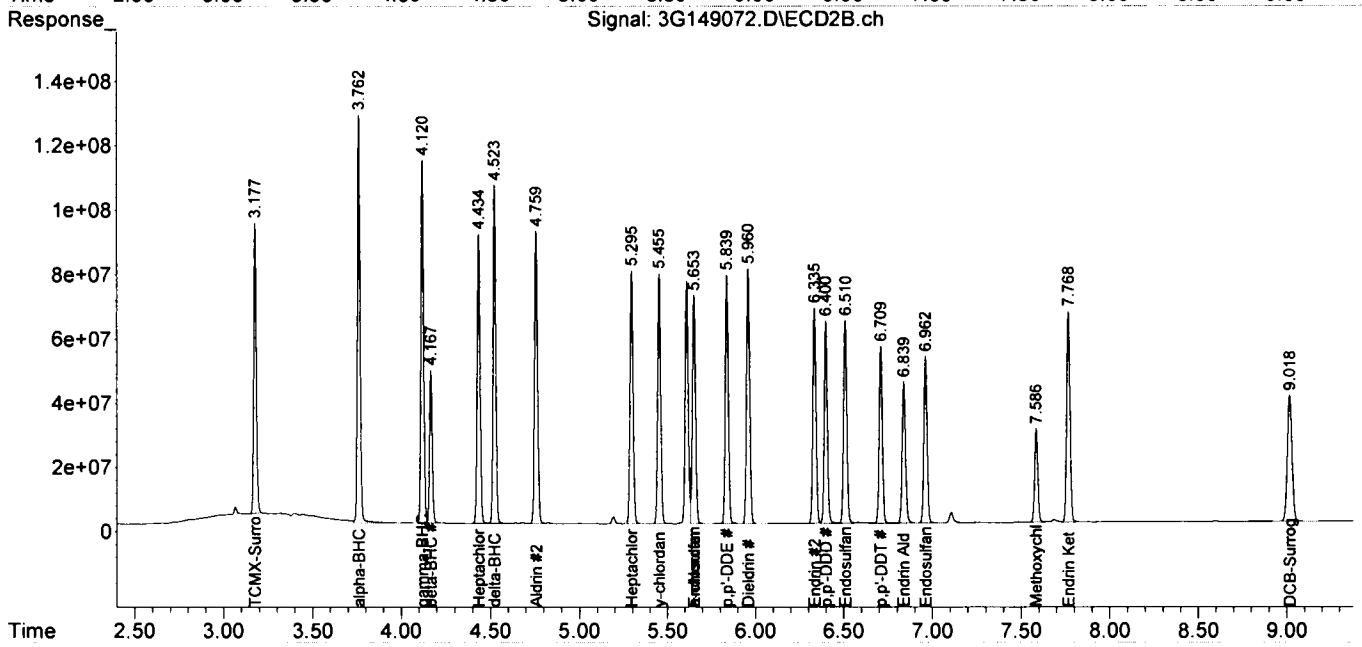
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\06-26-23\
Data File : 3G149072.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2023 03:25
Operator : AH//PR/KM
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 08:32:28 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:43:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2023\GC_6\Data\06-26-23\
Data File : 6G177656.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2023 07:45
Operator : AH/PR/KM
Sample : CAL PEST@100PPB
Misc : A,PEST:0.5
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 08:08:16 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Jun 15 16:40:36 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.095	3.230	1060.2E6	832.7E6	112.531	105.722
2)alpha-BHC	3.844	3.820	1473.2E6	1088.3E6	110.224	101.227
3)gamma-BHC	4.195	4.181	1264.3E6	974.4E6	105.241	100.182
4)beta-BHC	4.847	4.228	509.2E6	419.9E6	95.169	93.926
5)Heptachlor	4.386	4.497	1091.2E6	787.2E6	101.134	99.326
6)delta-BHC	5.096	4.585	1166.6E6	959.3E6	102.038	99.563
7)Aldrin	4.644	4.824	1137.0E6	896.7E6	101.863	99.888
8)Heptachlor Epoxid	5.270	5.361	993.8E6	788.9E6	99.922	98.980
9)y-chlordane	5.576	5.521	988.5E6	787.7E6	99.714	97.974
10)a-chlordane	5.627	5.678	962.8E6	765.3E6	98.324	96.874
11)Endosulfan I	5.538	5.721	903.2E6	737.1E6	100.018	98.583
12)p,p'-DDE	5.692	5.904	977.6E6	779.2E6	100.935	99.560
13)Dieldrin	5.886	6.028	1027.1E6	822.6E6	101.230	100.309
14)Endrin	6.088	6.405	952.6E6	752.3E6	104.230	105.606
15)p,p'-DDD	6.459	6.465	825.7E6	678.3E6	103.981	104.330
16)Endosulfan II	6.551	6.579	838.8E6	703.0E6	99.943	102.349
17)p,p'-DDT	6.622	6.775	666.4E6	508.1E6	94.791	86.771
18)Endrin Aldehyde	6.960	6.907	534.4E6	504.4E6	97.956	99.930
19)Endosulfan Sulfat	7.265	7.029	797.5E6	647.5E6	104.549	105.119
20)Methoxychlor	7.199	7.649	381.2E6	255.5E6	95.129m	92.738m
21)Endrin Ketone	7.672	7.839	923.3E6	859.6E6	104.840	116.384
22)DCB-Surrogate	8.411	9.108	810.7E6	634.4E6	102.380	98.225

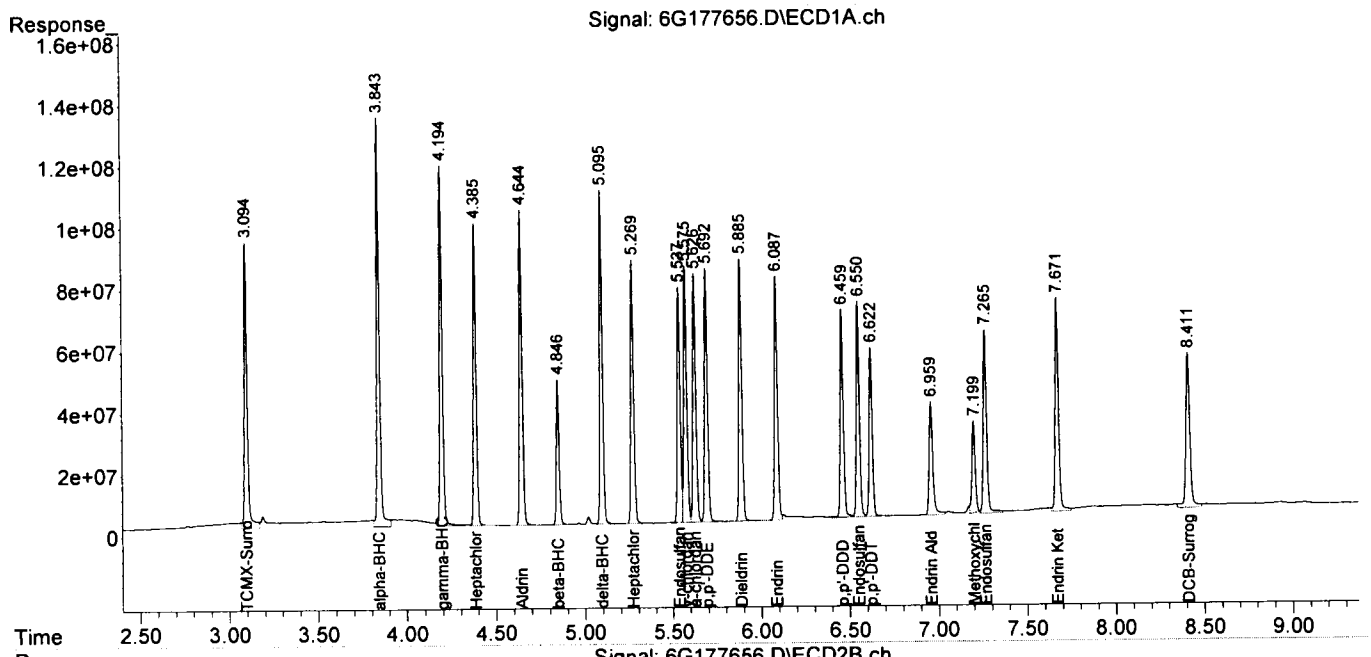
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

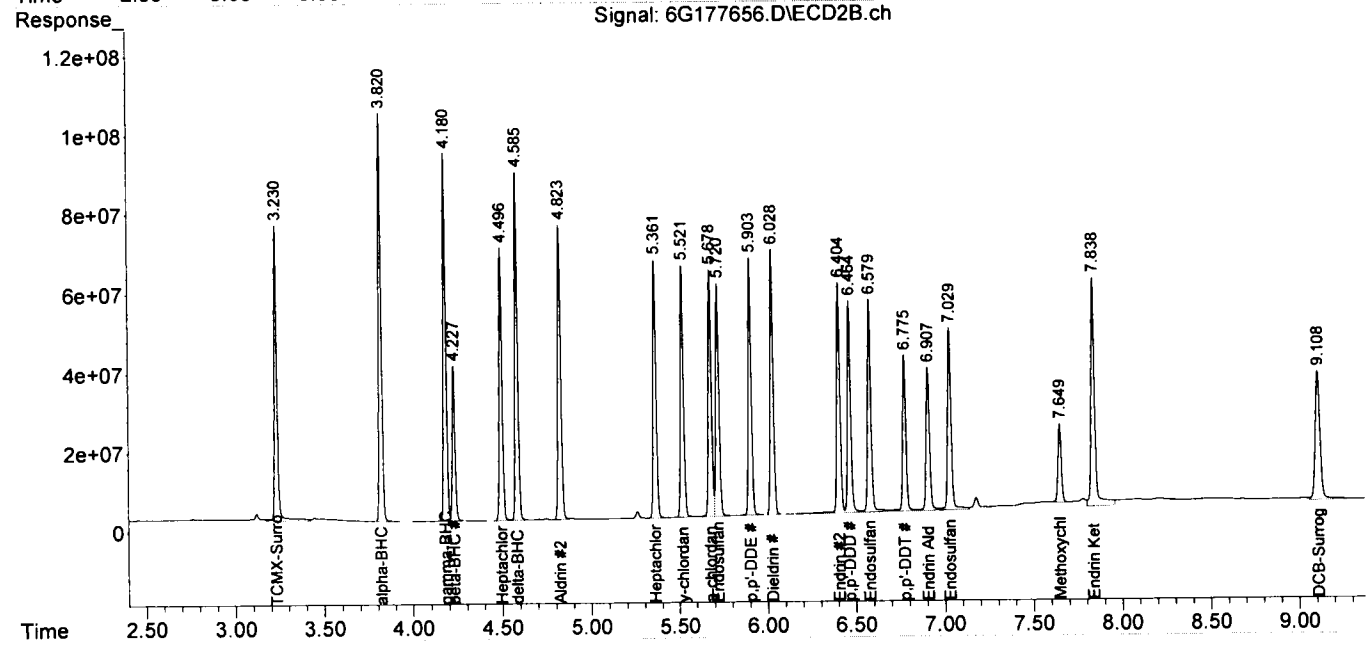
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\06-26-23\
Data File : 6G177656.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2023 07:45
Operator : AH/PR/KM
Sample : CAL PEST@100PPB
Misc : A,PEST:0.5
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 08:08:16 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Jun 15 16:40:36 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P
Signal #1 Info : .32
Signal #2 Phase: db-17
Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\06-26-23\
Data File : 3G149094.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2023 08:27
Operator : AH//PR/KM
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 08:38:25 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:43:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.153	3.178	1071.3E6	803.3E6	107.379	93.990
2)alpha-BHC	3.914	3.764	1466.8E6	1136.1E6	100.387	98.903
3)gamma-BHC	4.270	4.123	1389.1E6	1054.0E6	108.780	103.024
4)beta-BHC	4.927	4.170	582.3E6	447.4E6	104.758	97.581
5)Heptachlor	4.467	4.437	1352.3E6	1033.5E6	108.909	107.717
6)delta-BHC	5.180	4.527	1228.3E6	995.5E6	101.826	101.596
7)Aldrin	4.730	4.763	1325.8E6	978.4E6	110.446	103.897
8)Heptachlor Epoxid	5.361	5.300	1297.1E6	856.6E6	119.029	101.237
9)y-chlordane	5.670	5.459	1180.6E6	954.2E6	110.059	114.497m
10)a-chlordane	5.723	5.617	1139.5E6	900.6E6	108.150	111.124
11)Endosulfan I	5.633	5.659	1068.3E6	837.1E6	108.281	107.826
12)p,p'-DDE	5.789	5.845	1143.9E6	850.1E6	109.875	105.837
13)Dieldrin	5.985	5.966	1229.2E6	951.3E6	111.623	112.283
14)Endrin	6.188	6.340	1072.0E6	832.0E6	117.439m	121.896m
15)p,p'-DDD	6.562	6.406	939.4E6	755.6E6	110.596	111.731
16)Endosulfan II	6.655	6.516	974.3E6	803.3E6	105.953	112.834
17)p,p'-DDT	6.727	6.716	888.3E6	685.9E6	124.081m	112.242m
18)Endrin Aldehyde	7.067	6.845	634.2E6	630.7E6	101.292	117.790
19)Endosulfan Sulfat	7.374	6.968	919.7E6	676.3E6	110.652	109.538
20)Methoxychlor	7.309	7.593	532.5E6	366.2E6	137.726m	109.502m
21)Endrin Ketone	7.784	7.776	988.8E6	847.9E6	104.190	110.973
22)DCB-Surrogate	8.552	9.026	1043.5E6	762.6E6	111.184	117.993

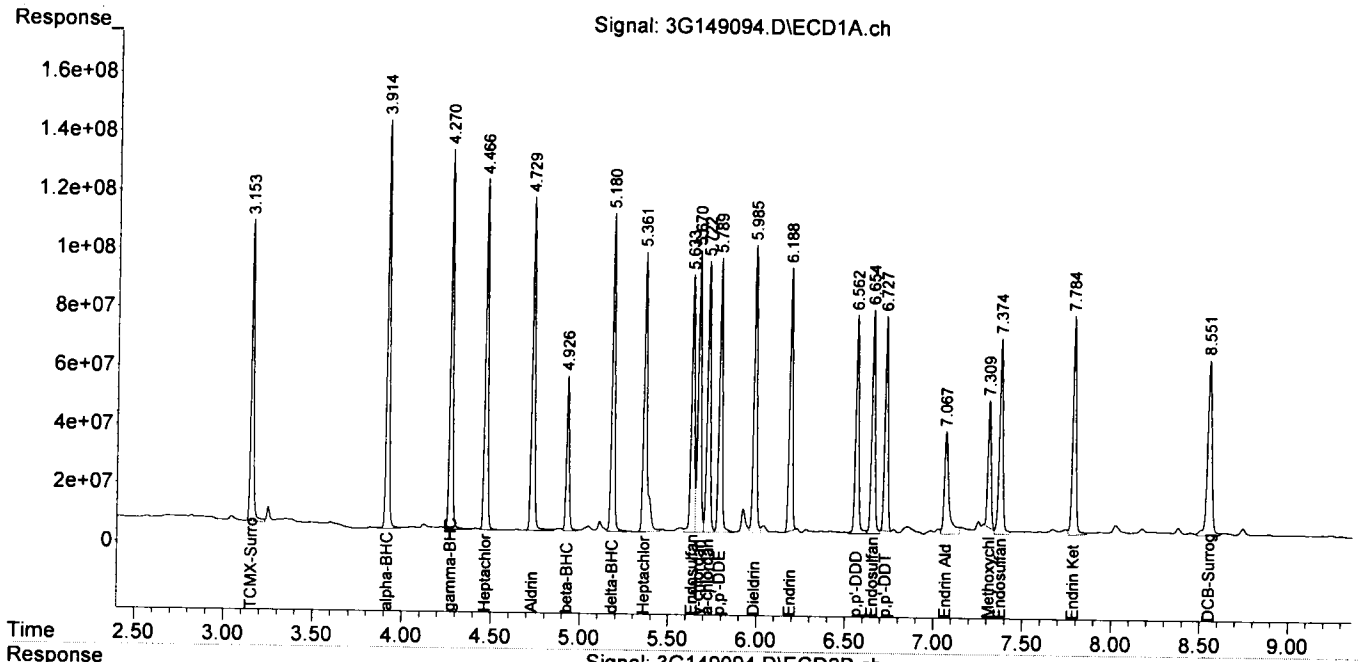
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

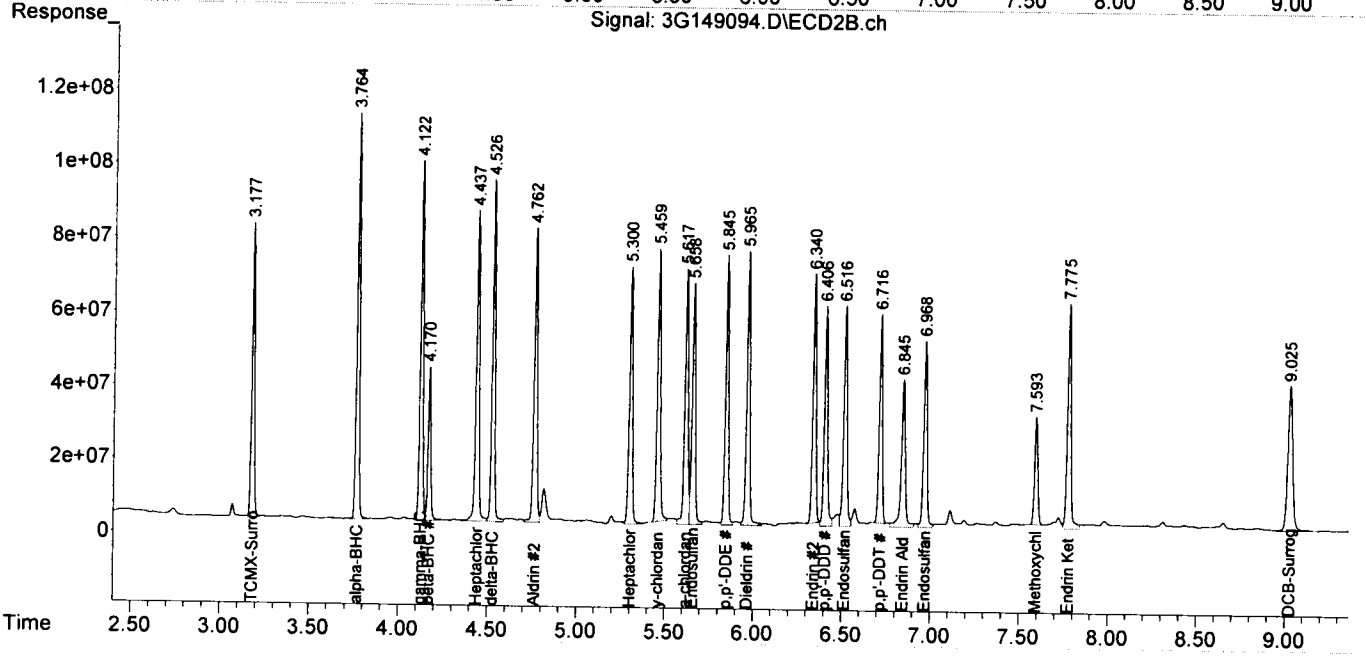
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\06-26-23\
Data File : 3G149094.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2023 08:27
Operator : AH//PR/KM
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 08:38:25 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:43:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P
Signal #1 Info : .32
Signal #2 Phase: db-17
Signal #2 Info : .32





GC Pesticide Data
Raw QC Data

Form1

ORGANICS PESTICIDE REPORT

Sample Number: SMB108889
Client Id:
Data File: 3G149077.D
Analysis Date: 06/26/23 04:47
Date Rec/Extracted: NA-06/23/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
5103-71-9	a-chlordane	0.0050	U	53494-70-5	Endrin Ketone	0.0050	U
309-00-2	Aldrin	0.0050	U	58-89-9	gamma-BHC	0.0010	U
319-84-6	alpha-BHC	0.0010	U	76-44-8	Heptachlor	0.0050	U
319-85-7	beta-BHC	0.0010	U	1024-57-3	Heptachlor Epoxide	0.0050	U
319-86-8	delta-BHC	0.0050	U	72-43-5	Methoxychlor	0.0050	U
60-57-1	Dieldrin	0.0010	U	72-54-8	p,p'-DDD	0.0025	U
959-98-8	Endosulfan I	0.0050	U	72-55-9	p,p'-DDE	0.0025	U
33213-65-9	Endosulfan II	0.0050	U	50-29-3	p,p'-DDT	0.0025	U
1031-07-8	Endosulfan Sulfate	0.0050	U	8001-35-2	Toxaphene	0.025	U
72-20-8	Endrin	0.0050	U	5103-74-2	y-chlordane	0.0050	U
7421-93-4	Endrin Aldehyde	0.0050	U				

Worksheet #: 696335

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2023\GC_3\Data\06-26-23\
Data File : 3G149077.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2023 04:47
Operator : AH//PR/KM
Sample : SMB108889
Misc : S,PEST
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 11:36:12 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:43:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

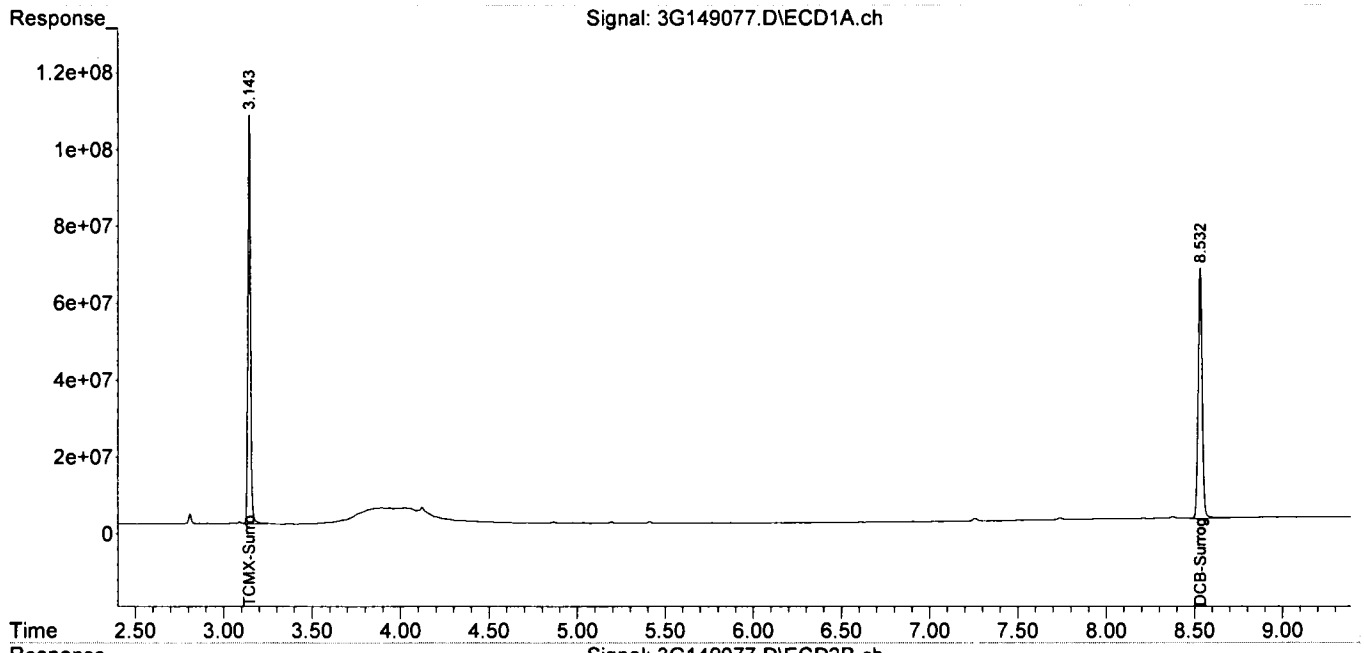
	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
	Target Compounds						
1)	TCMX-Surrogate	3.144	3.176	1102.1E6	892.4E6	110.467	104.423m
22)	DCB-Surrogate	8.532	9.015	1052.9E6	771.1E6	112.185	119.314

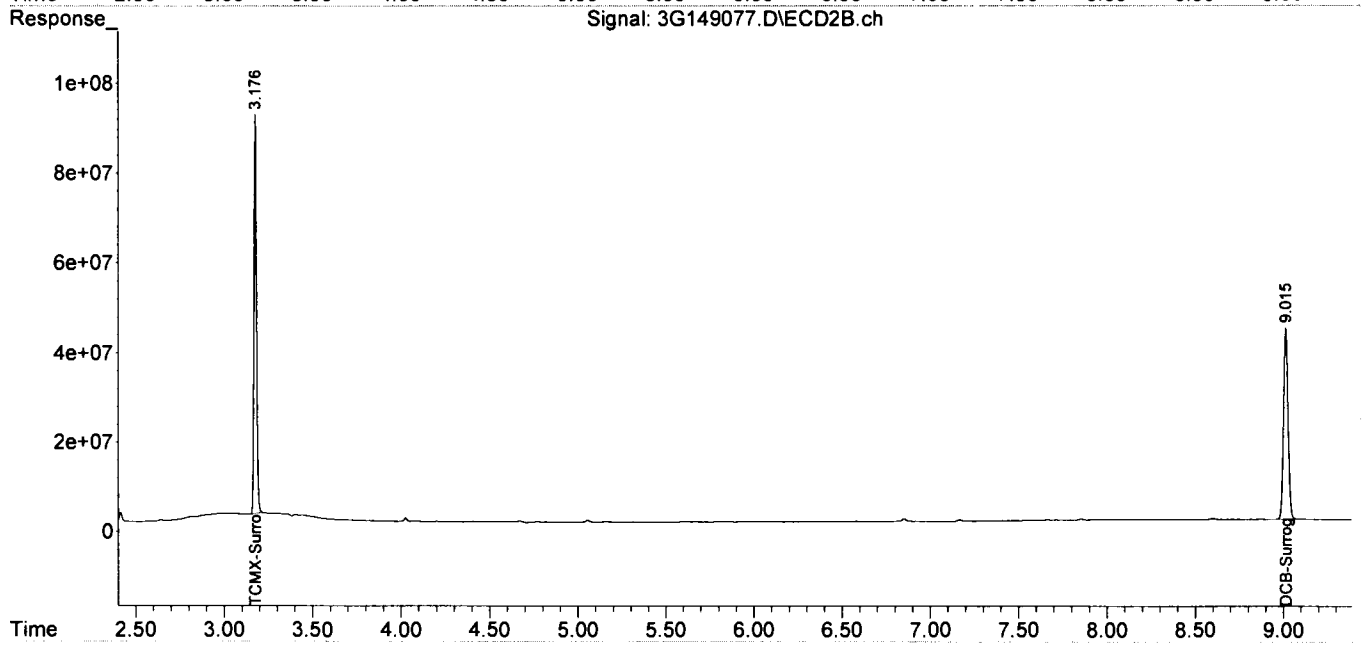
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2023\GC_3\Data\06-26-23\
Data File : 3G149077.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2023 04:47
Operator : AH//PR/KM
Sample : SMB108889
Misc : S,PEST
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 11:36:12 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:43:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Form3
Recovery Data Laboratory Limits
QC Batch: SMB108889

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G149082.D	SMB108889(MS)	6/26/2023 5:46:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	1	86.22	0	100	86	32	126
gamma-BHC	1	90.93	0	100	91	30	137
beta-BHC	1	87.78	0	100	88	18	149
Heptachlor	1	88.38	0	100	88	29	142
delta-BHC	1	86.6	0	100	87	19	145
Aldrin	1	88.36	0	100	88	36	132
Heptachlor Epoxide	1	90.6	0	100	91	36	154
y-chlordane	1	78.14	0	100	78	35	152
a-chlordane	1	95.58	0	100	96	35	135
Endosulfan I	1	92.33	0	100	92	21	151
p,p'-DDE	1	101.49	0	100	101	28	148
Dieldrin	1	88.45	0	100	88	28	154
Endrin	1	113.66	0	100	114	29	164
p,p'-DDD	1	93.46	0	100	93	14	180
Endosulfan II	1	91.94	0	100	92	26	143
p,p'-DDT	1	111.91	0	100	112	10	169
Endrin Aldehyde	1	73.49	0	100	73	10	169
Endosulfan Sulfate	1	88.4	0	100	88	27	144
Methoxychlor	1	97.49	0	100	97	10	182
Endrin Ketone	1	95.69	0	100	96	29	140

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\06-26-23\
Data File : 3G149082.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2023 05:46
Operator : AH//PR/KM
Sample : SMB108889(MS)
Misc : S,PEST
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 11:47:06 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:43:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

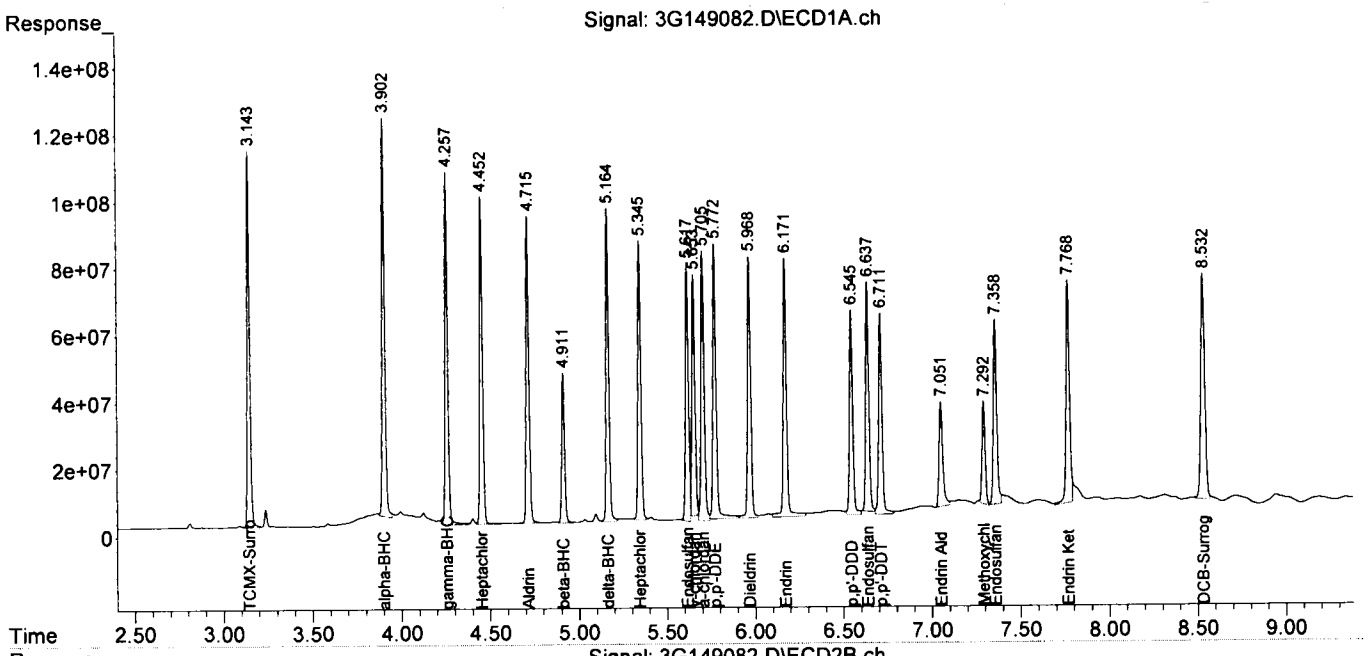
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2	
Target Compounds							
1)TCMX-Surrogate	3.144	3.177	1145.7E6	1020.4E6	114.841	119.398	
2)alpha-BHC	3.902	3.762	1259.8E6	1036.4E6	86.220m	90.230	
3)gamma-BHC	4.257	4.120	1161.3E6	931.7E6	90.935	91.072	
4)beta-BHC	4.912	4.167	487.9E6	411.8E6	87.777	89.816	
5)Heptachlor	4.453	4.434	1097.4E6	873.0E6	88.378	90.984	
6)delta-BHC	5.164	4.523	1044.6E6	880.7E6	86.597	89.880	
7)Aldrin	4.715	4.759	1060.7E6	843.3E6	88.363	89.545	
8)Heptachlor Epoxid	5.345	5.295	987.3E6	758.2E6	90.604m	89.608	
9)y-chlordane	5.653	5.455	838.2E6	676.1E6	78.138m	81.124	
10)a-chlordane	5.705	5.654	1007.1E6	723.1E6	95.584m	89.223	
11)Endosulfan I	5.617	5.654	911.0E6	723.1E6	92.330m	93.146	
12)p,p'-DDE	5.772	5.839	1056.6E6	787.9E6	101.493	98.086	
13)Dieldrin	5.968	5.959	974.0E6	748.1E6	88.455	88.302	
14)Endrin	6.171	6.335	1037.5E6	718.1E6	113.659	105.198	
15)p,p'-DDD	6.545	6.400	793.9E6	627.7E6	93.461	92.817	
16)Endosulfan II	6.637	6.510	845.4E6	695.4E6	91.937m	97.687	
17)p,p'-DDT	6.711	6.710	801.2E6	609.4E6	111.913	99.714	
18)Endrin Aldehyde	7.051	6.839	460.1E6	494.3E6	73.490m	92.316	#
19)Endosulfan Sulfat	7.358	6.961	734.7E6	543.0E6	88.396m	87.939	
20)Methoxychlor	7.292	7.586	376.9E6	379.6E6	97.493m	113.510	
21)Endrin Ketone	7.768	7.769	908.1E6	741.3E6	95.687m	97.019	
22)DCB-Surrogate	8.532	9.016	1060.4E6	764.8E6	112.986m	118.326m	

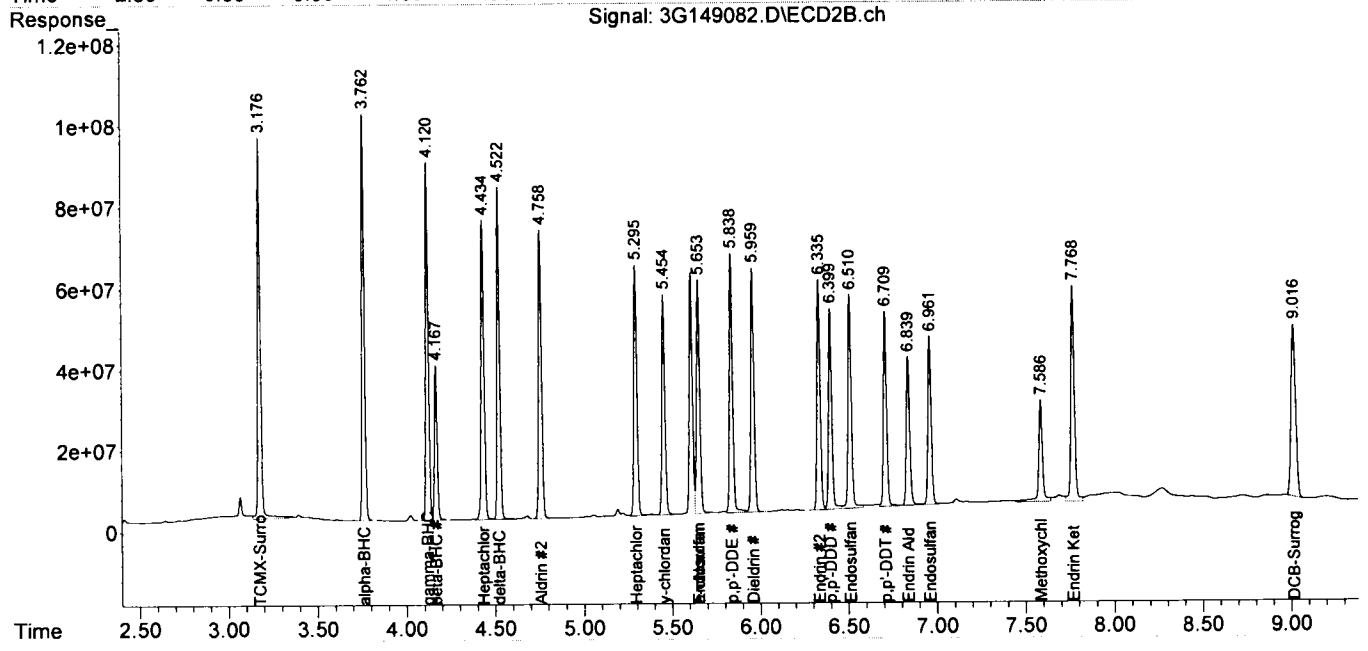
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2023\GC_3\Data\06-26-23\
Data File : 3G149082.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2023 05:46
Operator : AH//PR/KM
Sample : SMB108889(MS)
Misc : S,PEST
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 11:47:06 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:43:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Form3
Recovery Data Laboratory Limits
QC Batch: SMB108889

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G149078.D	AD38586-007(MS:AD38586-00	6/26/2023 4:59:00 AM
Non Spike(If applicable):	6G177651.D	AD38586-001	6/26/2023 6:19:00 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	1	80.3	0	100	80	32	136
gamma-BHC	1	80.63	0	100	81	30	137
beta-BHC	1	80.64	0	100	81	18	149
Heptachlor	1	88.85	0	100	89	29	142
delta-BHC	1	77.47	0	100	77	19	145
Aldrin	1	84.36	0	100	84	36	132
Heptachlor Epoxide	1	90.06	0	100	90	36	154
y-chlordane	1	81.29	0	100	81	35	152
a-chlordane	1	96.6	0	100	97	35	135
Endosulfan I	1	90.78	0	100	91	21	151
p,p'-DDE	1	92.96	0	100	93	28	148
Dieldrin	1	95.4	4.87	100	91	28	154
Endrin	1	99.66	0	100	100	29	164
p,p'-DDD	1	84.7	7.5	100	77	14	180
Endosulfan II	1	83.31	0	100	83	26	143
p,p'-DDT	1	129.13	42.35	100	87	10	169
Endrin Aldehyde	1	248.58	0	100	249 *	10	169
Endosulfan Sulfate	1	76.57	0	100	77	27	144
Methoxychlor	1	76.48	0	100	76	10	182
Endrin Ketone	1	112.6	0	100	113	29	140

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G149079.D	AD38586-008(MSD:AD38586-0	6/26/2023 5:10:00 AM
Non Spike(If applicable):	6G177651.D	AD38586-001	6/26/2023 6:19:00 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	1	90.15	0	100	90	32	136
gamma-BHC	1	92.93	0	100	93	30	137
beta-BHC	1	92.34	0	100	92	18	149
Heptachlor	1	104.98	0	100	105	29	142
delta-BHC	1	90.46	0	100	90	19	145
Aldrin	1	94.44	0	100	94	36	132
Heptachlor Epoxide	1	103.67	0	100	104	36	154
y-chlordane	1	94.4	0	100	94	35	152
a-chlordane	1	112.36	0	100	112	35	135
Endosulfan I	1	106.36	0	100	106	21	151
p,p'-DDE	1	108.02	0	100	108	28	148
Dieldrin	1	114.07	4.87	100	109	28	154
Endrin	1	121.53	0	100	122	29	164
p,p'-DDD	1	101.92	7.5	100	94	14	180
Endosulfan II	1	102.58	0	100	103	26	143
p,p'-DDT	1	156.34	42.35	100	114	10	169
Endrin Aldehyde	1	287.49	0	100	287 *	10	169
Endosulfan Sulfate	1	91.83	0	100	92	27	144
Methoxychlor	1	103.74	0	100	104	10	182
Endrin Ketone	1	120.4	0	100	120	29	140

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form

Form3
RPD Data Laboratory Limits
QC Batch: SMB108889

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G149079.D	AD38586-008(MSD:AD38586-0	6/26/2023 5:10:00 AM
Duplicate(If applicable):	3G149078.D	AD38586-007(MS:AD38586-00	6/26/2023 4:59:00 AM
Inst Blank(If applicable):			

Method: 8081 | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
alpha-BHC	1	90.15	80.3	12	59
gamma-BHC	1	92.93	80.63	14	59
beta-BHC	1	92.34	80.64	14	72
Heptachlor	1	104.98	88.85	17	57
delta-BHC	1	90.46	77.47	15	63
Aldrin	1	94.44	84.36	11	57
Heptachlor Epoxide	1	103.67	90.06	14	56
y-chlordane	1	94.4	81.29	15	56
a-chlordane	1	112.36	96.6	15	57
Endosulfan I	1	106.36	90.78	16	62
p,p'-DDE	1	108.02	92.96	15	58
Dieldrin	1	114.07	95.4	18	56
Endrin	1	121.53	99.66	20	60
p,p'-DDD	1	101.92	84.7	18	60
Endosulfan II	1	102.58	83.31	21	62
p,p'-DDT	1	156.34	129.13	19	65
Endrin Aldehyde	1	287.49	248.58	15	75
Endosulfan Sulfate	1	91.83	76.57	18	63
Methoxychlor	1	103.74	76.48	30	52
Endrin Ketone	1	120.4	112.6	6.7	62

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Data Path : G:\Gcdata\2023\GC_3\Data\06-26-23\
Data File : 3G149078.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2023 04:59
Operator : AH//PR/KM
Sample : AD38586-007(MS:AD38586-001) (Sig #1); AD38586-007(MS) (Sig #2)
Misc : S,PEST
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 15:43:25 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:43:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.144	3.176	1135.8E6	924.8E6	113.849	108.207m
2)alpha-BHC	3.902	3.762	1173.3E6	977.2E6	80.295m	85.076
3)gamma-BHC	4.257	4.120	1029.7E6	850.3E6	80.631m	83.116
4)beta-BHC	4.911	4.167	448.2E6	439.2E6	80.639m	95.784
5)Heptachlor	4.453	4.434	1103.3E6	909.3E6	88.854	94.774
6)delta-BHC	5.165	4.523	934.5E6	837.2E6	77.472m	85.434
7)Aldrin	4.715	4.759	1012.6E6	864.6E6	84.357m	91.811
8)Heptachlor Epoxid	5.346	5.296	981.4E6	752.8E6	90.062	88.960
9)y-chlordane	5.654	5.454	872.0E6	727.0E6	81.294m	87.233
10)a-chlordane	5.705	5.612	1017.8E6	783.4E6	96.596m	96.665m
11)Endosulfan I	5.617	5.653	895.6E6	723.9E6	90.778m	93.252m
12)p,p'-DDE	5.772	5.839	967.8E6	776.6E6	92.961m	96.683
13)Dieldrin	5.969	5.961	1050.5E6	1193.0E6	95.403	140.811 #
14)Endrin	6.171	6.336	909.7E6	962.7E6	99.660m	141.042 #
15)p,p'-DDD	6.545	6.399	719.5E6	588.1E6	84.704m	86.957m
16)Endosulfan II	6.637	6.509	766.1E6	643.1E6	83.313m	90.334m
17)p,p'-DDT	6.710	6.709	924.5E6	729.6E6	129.132m	119.380
18)Endrin Aldehyde	7.037	6.839	1556.4E6	456.6E6	248.577m	85.281 #
19)Endosulfan Sulfat	7.358	6.960	636.4E6	480.9E6	76.569m	77.880m
20)Methoxychlor	7.315	7.585	295.7E6	307.5E6	76.477m	91.945m
21)Endrin Ketone	7.767	7.768	1068.6E6	827.0E6	112.600m	108.239
22)DCB-Surrogate	8.532	9.018	1051.5E6	1007.9E6	112.038m	155.952 #

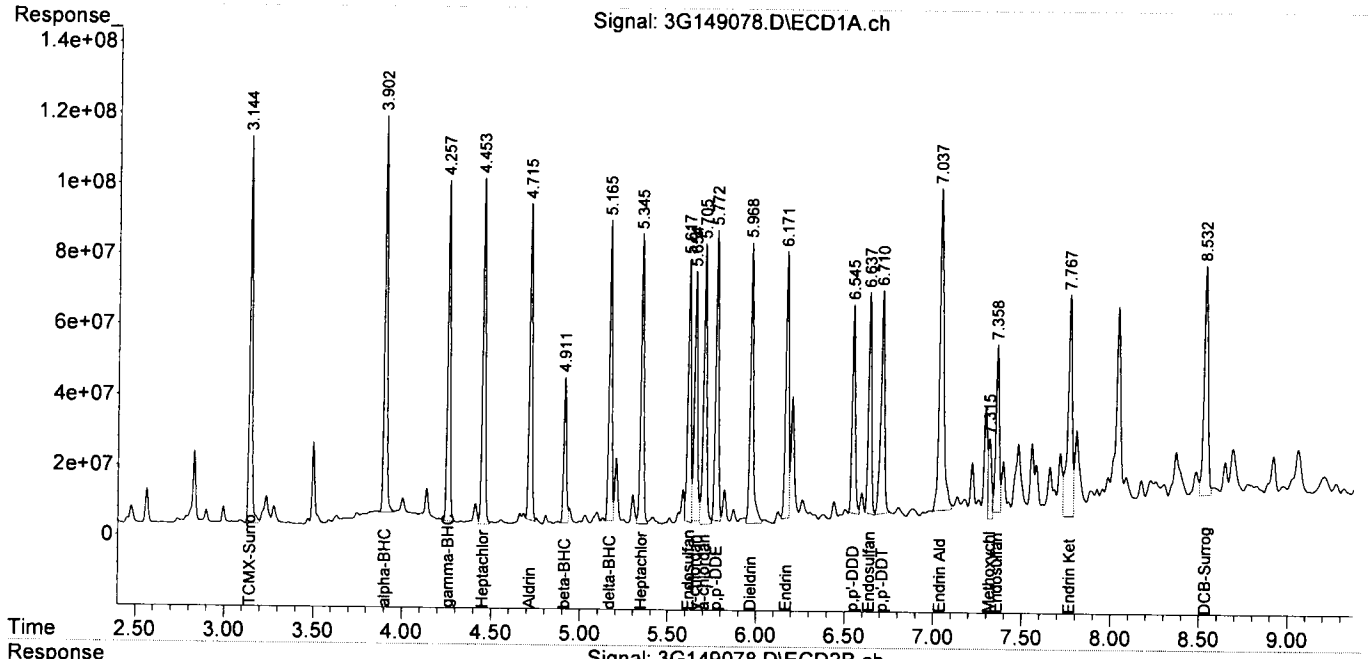
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

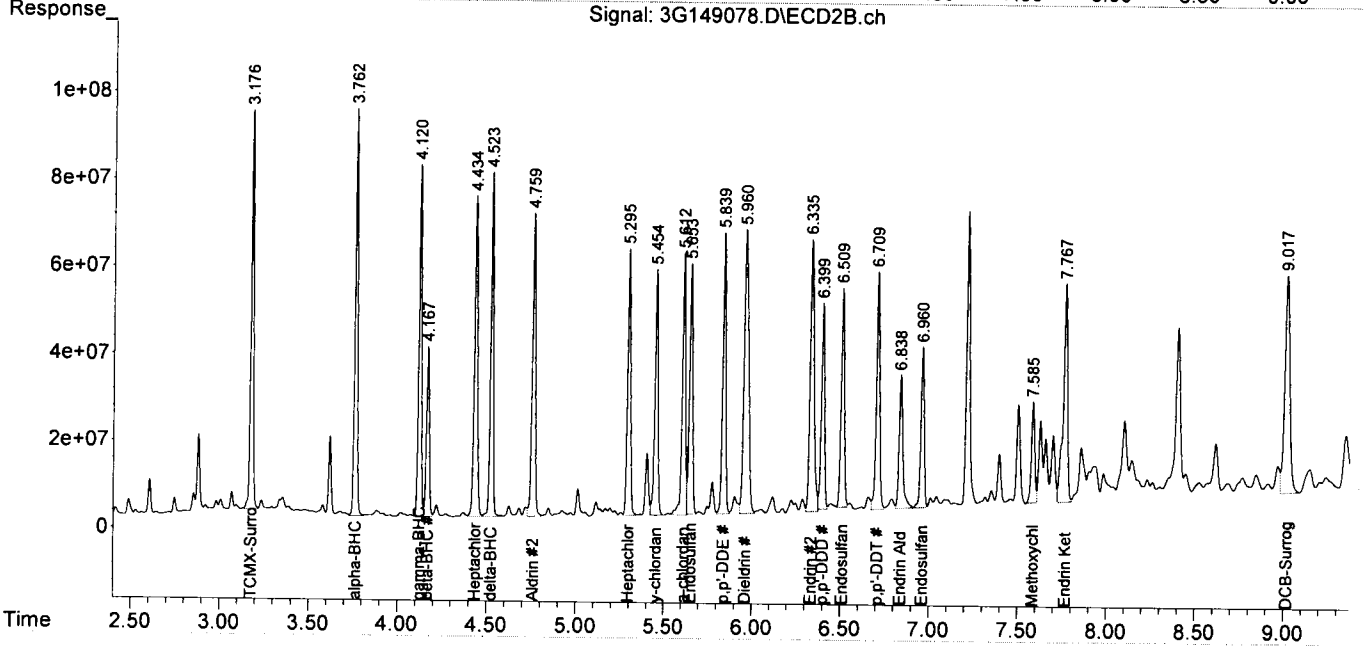
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\06-26-23\
Data File : 3G149078.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2023 04:59
Operator : AH//PR/KM
Sample : AD38586-007(MS:AD38586-001) (Sig #1); AD38586-007(MS) (Sig #2)
Misc : S,PEST
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 15:43:25 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:43:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P
Signal #1 Info : .32
Signal #2 Phase: db-17
Signal #2 Info : .32





Data Path : G:\Gcdata\2023\GC_3\Data\06-26-23\
Data File : 3G149079.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2023 05:10
Operator : AH//PR/KM
Sample : AD38586-008(MSD:AD38586-001) (Sig #1); AD38586-007(MSD) (Sig #2)
Misc : S,PEST
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 15:44:26 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:43:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.145	3.177	1257.1E6	1026.7E6	126.012m	120.141m
2)alpha-BHC	3.902	3.762	1317.3E6	1103.5E6	90.152m	96.069
3)gamma-BHC	4.257	4.120	1186.7E6	962.6E6	92.927	94.096
4)beta-BHC	4.911	4.167	513.3E6	506.5E6	92.344m	110.469
5)Heptachlor	4.453	4.434	1303.5E6	1047.0E6	104.975m	109.125
6)delta-BHC	5.165	4.523	1091.2E6	946.0E6	90.455m	96.546
7)Aldrin	4.715	4.759	1133.6E6	1003.9E6	94.436m	106.602
8)Heptachlor Epoxid	5.346	5.296	1129.7E6	862.1E6	103.670	101.878
9)y-chlordane	5.654	5.454	1012.6E6	839.5E6	94.397m	100.732
10)a-chlordane	5.705	5.612	1183.9E6	881.2E6	112.361m	108.726m
11)Endosulfan I	5.617	5.653	1049.4E6	844.7E6	106.359m	108.809m
12)p,p'-DDE	5.772	5.839	1124.6E6	905.2E6	108.022m	112.696
13)Dieldrin	5.969	5.961	1256.1E6	1447.8E6	114.066	170.882 #
14)Endrin	6.171	6.337	1109.3E6	1180.4E6	121.525m	172.934 #
15)p,p'-DDD	6.545	6.399	865.7E6	684.5E6	101.920m	101.213m
16)Endosulfan II	6.638	6.509	943.2E6	749.6E6	102.579	105.298m
17)p,p'-DDT	6.711	6.709	1119.3E6	1190.1E6	156.342m	194.735
18)Endrin Aldehyde	7.038	6.840	1800.0E6	591.3E6	287.493m	110.442 #
19)Endosulfan Sulfat	7.358	6.961	763.3E6	543.6E6	91.834m	88.034m
20)Methoxychlor	7.316	7.585	401.1E6	389.8E6	103.741m	116.549m
21)Endrin Ketone	7.767	7.768	1142.6E6	1028.9E6	120.401m	134.658
22)DCB-Surrogate	8.532	9.017	1070.0E6	1233.9E6	114.006m	190.914 #

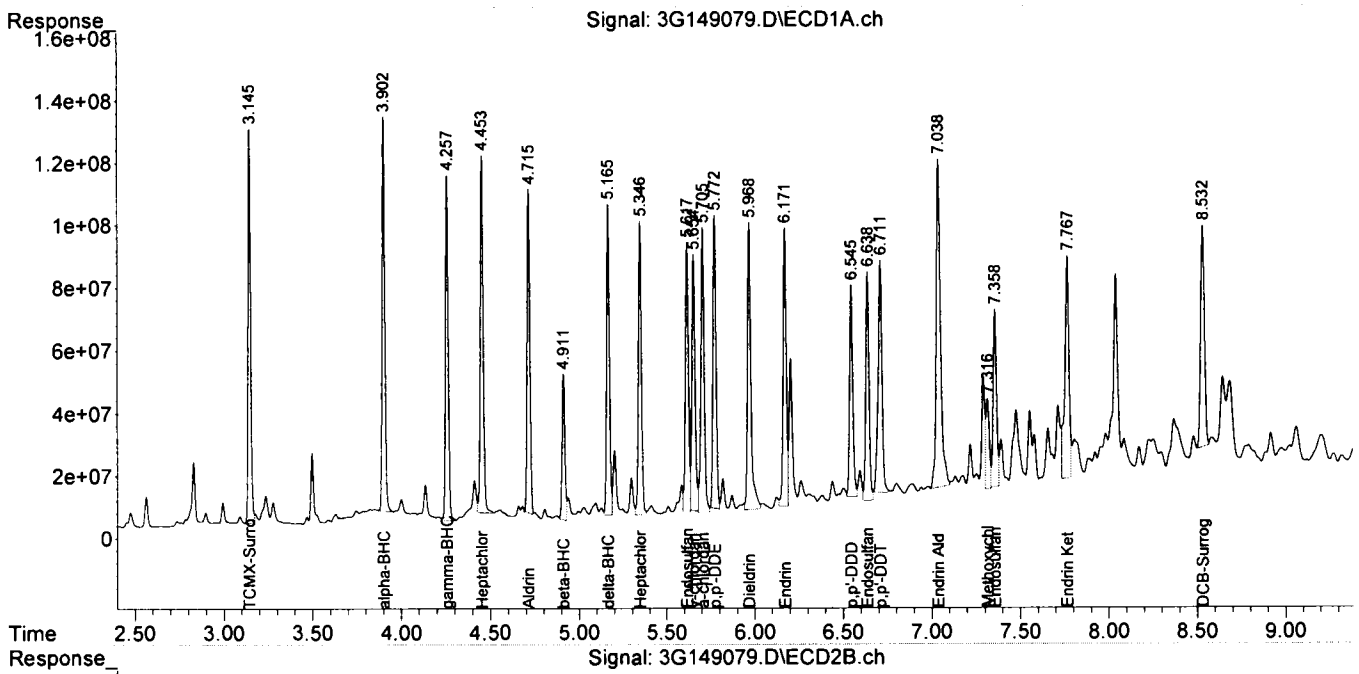
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

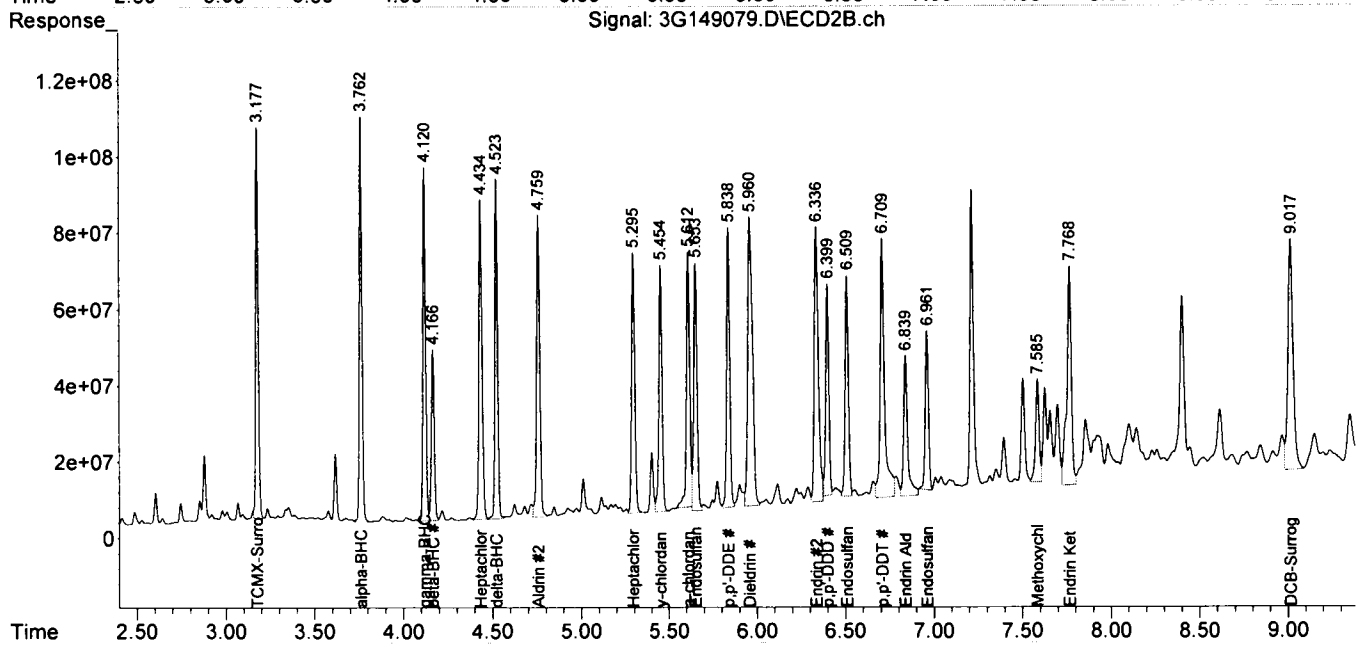
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\06-26-23\
Data File : 3G149079.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2023 05:10
Operator : AH//PR/KM
Sample : AD38586-008(MSD:AD38586-001) (Sig #1); AD38586-007(MSD) (Sig #2)
Misc : S,PEST
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 15:44:26 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:43:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2023\GC_6\Data\06-26-23\
Data File : 6G177651.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2023 06:19
Operator : AH/PR/KM
Sample : AD38586-001
Misc : S,PEST
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 10:53:53 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Jun 15 16:40:36 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

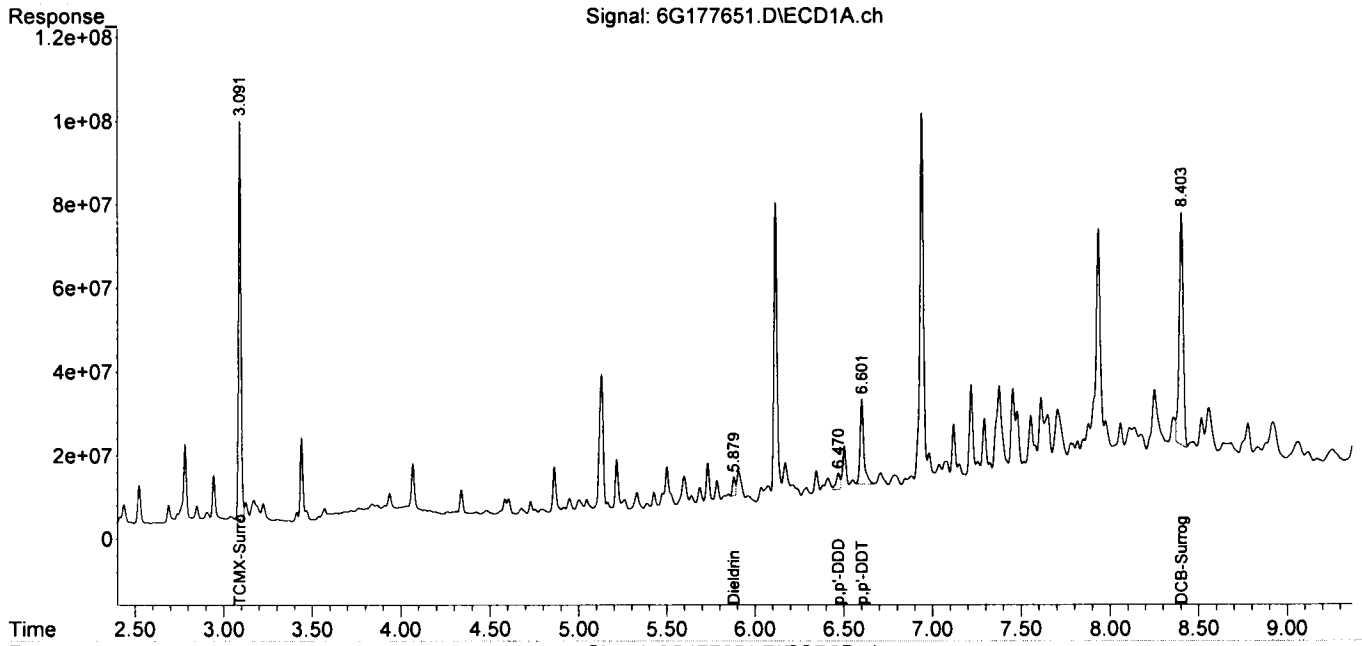
	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
	Target Compounds						
1)	TCMX-Surrogate	3.091	3.231	954.9E6	763.0E6	101.358m	96.873m
13)	Dieldrin	5.879	6.015	49419018	114.4E6	4.871m	13.946m#
15)	p,p'-DDD	6.470	6.414	59595486	510.2E6	7.504m	78.467m#
17)	p,p'-DDT	6.601	6.771	297.8E6	198.0E6	42.351m	34.026m
22)	DCB-Surrogate	8.403	9.104	877.1E6	895.3E6	110.755m	138.608m#

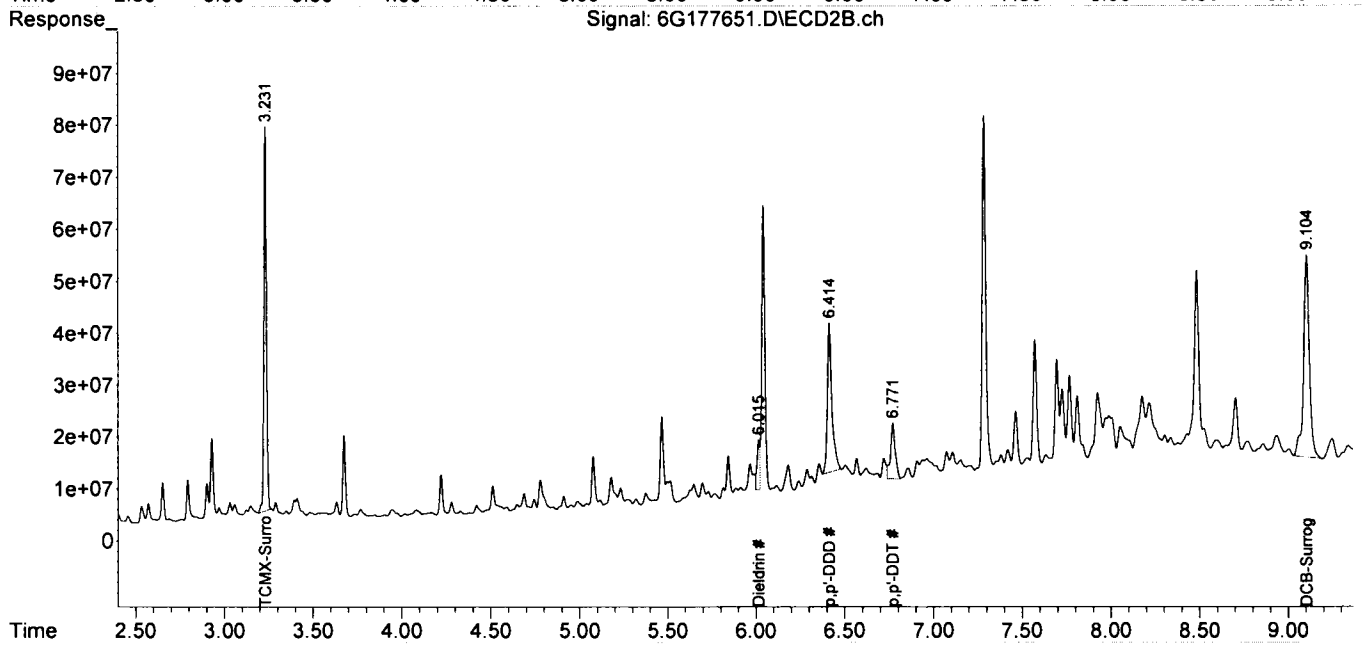
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2023\GC_6\Data\06-26-23\
Data File : 6G177651.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Jun 2023 06:19
Operator : AH/PR/KM
Sample : AD38586-001
Misc : S,PEST
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 10:53:53 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Jun 15 16:40:36 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





GC Pesticide Data
Logbook Data

QC108889 Pest QC108890 PCB

Hampton-Clarke

Pest / PCB SOXTHERM EXTRACTION – Method 3541

Pest Batch No.: 108889
Start Ext. Date/Time: 8:36 6/23/23
End Ext. Date/Time: 5:30 6/23/23

PCB Batch No.: 108890
Soxtherm Used: 1,2,5,6
E-Vap Used: 1,2

Sample Number	No. in batch Pest	No. in batch PCB	Initial Volume	Final Volume	Extracted By/Position/ Comments
MB108889/90			20G	10 mL	MAL 1.2 / Balance ID: 041
MBS108889/90					1.4
MS38586-007					2.3, 2.5
MSD38586-008					2.4, 2.6
AB38586-001	1	1			6.1
-002	2	2			6.2
AD38618-001	3	3			5.3
AD38633-004	4	4			5.4
-009	5	5			5.5
-014	6	6			5.6
-019	7	7			6.1
-024	8	8			6.2
-029	9	9			6.3
-034	10	10			6.4
-039	11	11			6.5
-044	12	12			6.6
-049	13	13			1.1
-054	14	14			1.2
-059	15	15			1.3
-064	16	16			1.4
-069	17	17			1.5
-074	18	18			1.6
-079	19	19			2.1
-084	20	20			2.2
					Rack #77
Copper cleanup:	7	7			
Sulf Acid cleanup:	N/A	7			

n/a 6/23

Spike Standards

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
100	10	39304	Pest / PCB / multi
↓	100	395618	Pest / PCB / multi
			Pest / PCB / multi
			Pest / PCB / multi
			Pest / PCB / multi

Surrogate Standards

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
100	10	396477	Pest / PCB / multi
			Pest / PCB / multi
			Pest / PCB / multi
			Pest / PCB / multi
			Pest / PCB / multi

Solvent/ Reagent Lots: Acetone 15356 Hexane 15286 Acetone/Hexane 397758 baked Na_2SO_4 397757
baked sand 396329 Copper Powder 15366 Sulfuric Acid 15245

Relinquished By: MAL Date: 6/23/23

Received By: MC Date: 6/23/23

RUN LOG

Instrument: GC_3 Year: 2023
Analyst: AH//PR/K

1-1-3G148103

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
3G148103.	CAL EVAL	Ee1=2.6;Ee2=3.6;Ed1=1.5;Ed2=1.6;	OK,V-387836	PR 06/05/23		Soil	1	1	8081	06/02 15:27
3G148104.	CAL EVAL	Ee1=2.5;Ee2=3.5;Ed1=1.8;Ed2=2.1;	OK,V-387836	PR 06/05/23		Soil	1	1	8081	06/02 15:39
3G148105.	PEST@2PPB	CnS8	NOT USED	PR 06/05/23		Soil	1	1	8081	06/02 15:50
3G148106.	CAL PEST@2PPB		OK,V-395741	PR 06/05/23		Soil	1	1	608\808	06/02 16:02
3G148107.	CAL PEST@10PPB		OK,V-395740	PR 06/05/23		Soil	1	1	608\808	06/02 16:14
3G148108.	PEST@10PPB	IsCmeS8	NOT USED	PR 06/05/23		Soil	1	1	8081	06/02 16:26
3G148109.	CAL PEST@50PPB		OK,V-395739	PR 06/05/23		Soil	1	1	608\808	06/02 16:37
3G148110.	CAL PEST@100PP		OK,V-395738	PR 06/05/23		Soil	1	1	608\808	06/02 16:49
3G148111.	CAL PEST@200PP		OK,V-395737	PR 06/05/23		Soil	1	1	608\808	06/02 17:01
3G148112.	CAL PEST@400PP		OK,V-395736	PR 06/05/23		Soil	1	1	608\808	06/02 17:13
3G148113.	CAL CHLORO@100		OK,V-395733	PR 06/05/23		Soil	1	1	608\808	06/02 17:24
3G148114.	TOX@50PPB	CmeS8Do	OK,V-395722	PR 06/05/23		Soil	1	1	8081	06/02 17:36
3G148115.	TOX@200PPB	CmeS8Do	OK,V-3957,OK,V-395726	PR 06/05/23		Soil	1	1	8081	06/02 17:48
3G148116.	TOX@500PPB	CmeS8Do	OK,V-395724	PR 06/05/23		Soil	1	1	8081	06/02 18:00
3G148117.	TOX@1000PPB	CmeS8Do	OK,V-395725	PR 06/05/23		Soil	1	1	8081	06/02 18:12
3G148118.	TOX@2000PPB	CmeS8Do	OK,V-395723	PR 06/05/23		Soil	1	1	8081	06/02 18:23
3G148119.	TOX@4000PPB	CmeS8Do	OK,V-395727	PR 06/05/23		Soil	1	1	8081	06/02 18:35
3G148120.	TOX ICV	IsIvoCme	OK,V-395686	PR 06/05/23		Soil	1	1	8081	06/02 18:47
3G148121.	ICV	IsCme	OK,V-395745	PR 06/05/23		Soil	1	1	8081	06/02 18:59
3G148122.	ICV	IsCme	OK,V-395745	PR 06/05/23		Soil	1	1	8081	06/02 19:10

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Fsm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Ftn	Trip/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for eph
B8m	Blank 8000 series missing	Fto	Trip Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Fv	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hh	Analysis Before Collection Date	Evro	Eval Mix missing drlt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rnd Out on Ms/Msd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rnd Out on Ms/Msd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C8f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmd csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning Inj cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a samol	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

1-1-6G177184

Instrument: GC_6 Year: 2023
Analyst: AH/PR/KM

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
6G177184.	EVAL	En	NOT USED	PR 06/16/23		Soil	1	1	8081	06/14 10:13
6G177185.	CAL EVAL	Ee1=1.4;Ee2=1.8;Ed1=2.2;Ed2=2;	OK,V-387836	PR 06/16/23		Soil	1	1	8081	06/14 10:25
6G177186.	CAL PEST@100PP		OK,V-395738	PR 06/16/23		Soil	1	1	608\808	06/14 10:39
6G177187.	CAL PEST@10PPB		OK,V-395740	PR 06/16/23		Soil	1	1	608\808	06/14 10:50
6G177188.	CAL PEST@2PPB		OK,V-395741	PR 06/16/23		Soil	1	1	608\808	06/14 11:02
6G177189.	CAL PEST@400PP		OK,V-395736	PR 06/16/23		Soil	1	1	608\808	06/14 11:14
6G177190.	CAL PEST@200PP		OK,V-395737	PR 06/16/23		Soil	1	1	608\808	06/14 11:26
6G177191.	CAL PEST@50PPB		OK,V-395739	PR 06/16/23		Soil	1	1	608\808	06/14 11:37
6G177192.	CAL CHLORO@100		OK,V-395733	PR 06/16/23		Soil	1	1	608\808	06/14 11:49
6G177193.	TOX@4000PPB	CmeS8	OK,V-395727	PR 06/16/23		Soil	1	1	8081	06/14 12:01
6G177194.	TOX@200PPB	Cme	OK,V-395726	PR 06/16/23		Soil	1	1	8081	06/14 12:12
6G177195.	TOX@1000PPB	Cme	OK,V-395725	PR 06/16/23		Soil	1	1	8081	06/14 12:24
6G177196.	TOX@500PPB	Cme	OK,V-395724	PR 06/16/23		Soil	1	1	8081	06/14 12:36
6G177197.	TOX@2000PPB	CmeS8	OK,V-395723	PR 06/16/23		Soil	1	1	8081	06/14 12:48
6G177198.	TOX@50PPB		OK,V-395722	PR 06/16/23		Soil	1	1	8081	06/14 12:59
6G177199.	TOX ICV	Ivo	OK,V-395686	PR 06/16/23		Soil	1	1	8081	06/14 13:11
6G177200.	ICV		OK,V-395745	PR 06/16/23		Soil	1	1	8081	06/14 13:23
6G177201.	AD38482-003		OK	PR 06/14/23	PE-8081	Aqueous	1	1	8081	06/14 15:48
6G177202.	AD38482-005		OK	PR 06/14/23	PE-8081	Aqueous	1	1	8081	06/14 16:00
6G177203.	EF-1-V-396484(06/0		OK	PR 06/14/23		Aqueous	1	6	8081	06/14 16:11
6G177204.	EF-1-V-396484(06/0		OK	PR 06/14/23		Aqueous	1	6	8081	06/14 16:23
6G177205.	CAL PEST@100PP		OK	PR 06/14/23		Soil	0.5	1	608\808	06/14 17:02

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for enh
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C18	Calibration Column 1 Out (600 Series)	Hh	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or enddn
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rnd Out on MsMsd (col1 and or col2) 600 series
C28	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rnd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C8f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calrpt csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Endmp Cal missing for sample (8000 series)	Iw	Initial cal warning Ini cal file <> method	S8	8000 series surrogate out
Co	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

1-1-3G149070

RUN LOG

Analysis Start Date 06/26/23
Analyst: AH//PR/K
Instrument: GC_3

Data File	Sample Number	Flags	Comments	RevBy	BlkData	QcMsID	QCLcsl	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Anal Time
3G149070.D	CAL EVAL	Ee1=3;Ee2=3.5;Ed1=1.6;Ed2=1.4;	OK,V-387836	PR 06/26/23,P		0	0		Soil	1	1	8081	03:01
3G149071.D	CAL EVAL	Ee1=4.7;Ee2=4.1;Ed1=2.6;Ed2=2.7;	OK,V-387836	PR 06/29/23		0	0		Soil	1	1	8081	03:13
3G149072.D	CAL PEST@100PPB	C16C26	OK,V-395738	PR 06/26/23		0	0		Soil	0.5	1	608\8081	03:25
3G149072A.D	CAL PEST@100PPB	C16C26	OK,V-395738	PR 06/26/23		0	0		Soil	0.5	1	608\8081	03:36
3G149074.D	AD38566-002(MS)	C6f	OK	PR 06/27/23	6G177585.D	108892	108892	PETCLP-8081	Aqueous	1	1	608\8081	04:12
3G149075.D	AD38566-002(MSD)	C6f	OK	PR 06/27/23	6G177585.D	108892	108892	PETCLP-8081	Aqueous	1	1	608\8081	04:23
3G149076.D	AD38566-002(T)	C6f	OK	PR 06/27/23	6G177585.D	108892	108892	PETCLP-8081	Aqueous	1	1	608\8081	04:35
3G149077.D	SMB108889		OK	PR 06/26/23	3G149077.D	108889	108889		Soil	1	1	8081	04:47
3G149078.D	AD38586-007(MS:AD38586-001)	M18M28	OK SMB108889	PR 06/26/23	3G149077.D	108889	108889	PE-8081	Soil	1	1	8081	04:59
3G149079.D	AD38586-008(MSD:AD38586-001)	M18M28	OK SMB108889	PR 06/26/23	3G149077.D	108889	108889	PE-8081	Soil	1	1	8081	05:10
3G149080.D	AD38582-001(MS)		OK SMB108882	PR 06/26/23	6G177584.D	108882	108882	PE-8081	Soil	1	1	8081	05:22
3G149081.D	SMB108877(MS)		OK SMB108877	PR 06/26/23	6G177550.D	108877	108877		Soil	1	1	8081	05:34
3G149082.D	SMB108889(MS)		OK SMB108889	PR 06/26/23	3G149077.D	108889	108889		Soil	1	1	8081	05:46
3G149083.D	AD38633-069		OK	PR 06/26/23	3G149077.D	108889	108889	PE-8081	Soil	1	1	8081	05:57
3G149084.D	AD38633-074		OK	PR 06/26/23	3G149077.D	108889	108889	PE-8081	Soil	1	1	8081	06:09
3G149085.D	AD38633-079		OK CONFIRMED	PR 06/26/23	3G149077.D	108889	108889	PE-8081	Soil	1	1	8081	06:21
3G149086.D	AD38633-084		OK CONFIRMED	PR 06/26/23	3G149077.D	108889	108889	PE-8081	Soil	1	1	8081	06:33
3G149087.D	AD38566-004(T)		OK	PR 06/26/23	6G177585.D	108892	108892	PETCLP-8081	Aqueous	1	1	8081	06:44
3G149088.D	AD38566-010(T)		OK	PR 06/26/23	6G177585.D	108892	108892	PETCLP-8081	Aqueous	1	1	8081	06:56
3G149089.D	AD38566-012(T)		OK	PR 06/26/23	6G177585.D	108892	108892	PETCLP-8081	Aqueous	1	1	8081	07:08
3G149090.D	EF-1-V-397759(06/21/23)		OK	PR 06/26/23	3G148898.D	0	0		Aqueous	1	6	8081	07:20
3G149091.D	EF-1-V-397210(06/16/23)		OK	PR 06/26/23		0	0		Aqueous	1	6	8081	07:32
3G149092.D	AD38566-006(T)		OK	PR 06/26/23	6G177585.D	108892	108892	PETCLP-8081	Aqueous	1	1	8081	07:43
3G149093.D	AD38566-008(T)		OK	PR 06/26/23	6G177585.D	108892	108892	PETCLP-8081	Aqueous	1	1	8081	07:55
3G149094.D	CAL PEST@100PPB	C16C26	OK	PR 06/26/23		0	0		Soil	0.5	1	608\8081	08:27

Anc	Area Not Checked	Fn	Extraction Performed Past Hold	Cn	Warning Possible Carry Over
An	Area Out	Fsm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B8m	Blank 600 series missing	Ftn	Tcln/Solvent Extraction Date Missing/Not check'd	Crn	C30/C20 failed for enh
B8m	Blank 8000 series missing	Ftn	Tcln Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Fv	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hh	Analysis Before Collection Date	Evrc	Eval Mix missing dclt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rnd Out on Ms/Msd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rnd Out on Ms/Msd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Rn	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a samp	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

1-1-6G177631

Analysis Start Date 06/26/23
Analyst: AH/PR/KM
Instrument: GC_6

Data File	Sample Number	Flags	Comments	RevBy	BlkData	QcMsID	QCLcsI	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Anal Time
6G177631.D	CAL EVAL	IsEe1=3.4;Ee2=5.3;Ed1=6.6;Ed2=9.1;	OK,V-395738	PR 06/26/23,P		0	0		Aqueous	1	1	608\8081	02:01
6G177632.D	CAL EVAL	IsEe1=11;Ee2=20;Ed1=8.8;Ed2=12;	OK,V-395738	PR 06/29/23		0	0		Aqueous	1	1	608\8081	02:13
6G177634.D	CAL PEST@200PPB	C26	OK,V-395738	PR 06/26/23		0	0		Aqueous	0.25	1	608\8081	02:48
6G177635.D	AD38633-064		OK	PR 06/26/23	3G149077.D	108889	108889	PE-8081	Soil	1	1	8081	03:12
6G177636.D	AD38633-059		OK CONFIRMED	PR 06/26/23	3G149077.D	108889	108889	PE-8081	Soil	1	1	8081	03:23
6G177637.D	AD38633-054		OK CONFIRMED	PR 06/26/23	3G149077.D	108889	108889	PE-8081	Soil	1	1	8081	03:35
6G177638.D	AD38633-049		OK CONFIRMED	PR 06/26/23	3G149077.D	108889	108889	PE-8081	Soil	1	1	8081	03:47
6G177639.D	AD38633-044		OK CONFIRMED	PR 06/26/23	3G149077.D	108889	108889	PE-8081	Soil	1	1	8081	03:59
6G177640.D	AD38633-039		OK CONFIRMED	PR 06/26/23	3G149077.D	108889	108889	PE-8081	Soil	1	1	8081	04:10
6G177641.D	AD38633-034		OK CONFIRMED	PR 06/26/23	3G149077.D	108889	108889	PE-8081	Soil	1	1	8081	04:22
6G177642.D	AD38633-029		OK CONFIRMED	PR 06/26/23	3G149077.D	108889	108889	PE-8081	Soil	1	1	8081	04:34
6G177643.D	AD38633-019		OK CONFIRMED	PR 06/26/23	3G149077.D	108889	108889	PE-8081	Soil	1	1	8081	04:45
6G177644.D	AD38633-024		OK CONFIRMED	PR 06/26/23	3G149077.D	108889	108889	PE-8081	Soil	1	1	8081	04:57
6G177645.D	AD38582-001		OK CONFIRMED SMB108882	PR 06/26/23	6G177584.D	108882	108882	PE-8081	Soil	1	1	8081	05:09
6G177646.D	AD38633-014		OK CONFIRMED	PR 06/26/23	3G149077.D	108889	108889	PE-8081	Soil	1	1	8081	05:21
6G177647.D	AD38633-009		OK CONFIRMED	PR 06/26/23	3G149077.D	108889	108889	PE-8081	Soil	1	1	8081	05:32
6G177648.D	AD38633-004		OK CONFIRMED	PR 06/26/23	3G149077.D	108889	108889	PE-8081	Soil	1	1	8081	05:44
6G177649.D	AD38618-001		OK CONFIRMED	PR 06/26/23	3G149077.D	108889	108889	PE-8081	Soil	1	1	8081	05:56
6G177650.D	AD38586-002		OK CONFIRMED	PR 06/26/23	3G149077.D	108889	108889	PE-8081	Soil	1	1	8081	06:08
6G177651.D	AD38586-001		OK CONFIRMED SMB108889	PR 06/26/23	3G149077.D	108889	108889	PE-8081	Soil	1	1	8081	06:19
6G177652.D	AD38582-004		OK CONFIRMED	PR 06/26/23	6G177584.D	108882	108882	PE-8081	Soil	1	1	8081	06:31
6G177653.D	AD38582-003		RR2X	PR 06/26/23	6G177584.D	108882	108882	PE-8081	Soil	1	1	8081	06:43
6G177654.D	AD38582-002		OK CONFIRMED	PR 06/26/23	6G177584.D	108882	108882	PE-8081	Soil	1	1	8081	06:55
6G177655.D	CAL EVAL	Ee1=1.3;Ee2=2.2;Ed1=2.8;Ed2=2.1;	OK	PR 06/26/23		0	0		Aqueous	1	1	608\8081	07:28
6G177656.D	CAL PEST@100PPB		OK	PR 06/26/23		0	0		Aqueous	0.5	1	608\8081	07:45
6G177657.D	SMB108901(MS)		OK SMB108901	PR 06/26/23	6G177662.D	108901	108901		Soil	1	1	8081	08:22
6G177658.D	AD38688-001(MSD)		OK SMB108901	PR 06/26/23	6G177662.D	108901	108901	PE-8081	Soil	1	1	8081	08:34
6G177659.D	AD38688-001(MS)		OK SMB108901	PR 06/26/23	6G177662.D	108901	108901	PE-8081	Soil	1	1	8081	08:46
6G177660.D	AD38582-001(MSD)		OK SMB108882	PR 06/26/23	6G177662.D	108882	108882	PE-8081	Soil	1	1	8081	08:58
6G177661.D	AD38688-001		OK SMB108901	PR 06/26/23	6G177662.D	108901	108901	PE-8081	Soil	1	1	8081	09:09
6G177662.D	SMB108901		OK	PR 06/26/23	6G177662.D	108901	108901		Soil	1	1	8081	09:21
6G177663.D	AD38614-004		OK	PR 06/26/23	6G177662.D	108901	108901	PE-8081	Soil	1	1	8081	09:33
6G177664.D	AD38614-003		OK	PR 06/26/23	6G177662.D	108901	108901	PE-8081	Soil	1	1	8081	09:45
6G177665.D	AD38674-002		OK CONFIRMED	PR 06/26/23	6G177662.D	108901	108901	PE-8081	Soil	1	1	8081	09:56
6G177666.D	38634-002		OK CONFIRMED	PR 06/26/23		0	0		Soil	1	1	8081	10:08
6G177667.D	38634-001		OK CONFIRMED	PR 06/26/23		0	0		Soil	1	1	8081	10:20
6G177668.D	AD38691-013		OK CONFIRMED	PR 06/26/23	6G177662.D	108901	108901	PE-8081	Soil	1	1	8081	10:31
6G177669.D	AD38691-007	Tmw	OK CONFIRMED	PR 06/26/23	6G177662.D	108901	108901	PE-8081	Soil	1	1	608\8081	10:43
6G177670.D	AD38582-003(2X)		OK CONFIRMED	PR 06/26/23	6G177584.D	108882	108882	PE-8081	Soil	2	2	8081	12:05
6G177671.D	AD38691-007(5X)	Tmw	OK CONFIRMED	PR 06/26/23	6G177662.D	108901	108901	PE-8081	Soil	5	5	608\8081	12:16
6G177672.D	38582-001		NOT USED	PR 06/26/23	6G177584.D	108882	108882		Soil	1	1	8081	12:28
6G177673.D	38582-002		NOT USED	PR 06/26/23		0	0		Soil	1	1	8081	12:40
6G177674.D	38582-004		NOT USED	PR 06/26/23		0	0		Soil	1	1	8081	12:52
6G177675.D	38582-003		NOT USED	PR 06/26/23		0	0		Soil	1	1	8081	13:03
6G177676.D	CAL PEST@100PPB		OK	PR 06/26/23		0	0		Aqueous	0.5	1	608\8081	13:38

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for eph
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C1б	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing drlt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C8f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Endrin Cal missing for sample (8000 series)	Iw	Initial cal warning Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a samol	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15245

Description
Sulfuric Acid

ApprovedBy: jean
ApproveDate: 05/05/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J. T .B AKER	9684-03	22H0962009	04/28/23	06/27/27	Cajuste, Pierre	18	2.5 L	Neat	Neat

Veritech Control/Receipt Number: 15286

Description
n-hexanes

ApprovedBy: akmal
ApproveDate: 05/23/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Tedia	HA1721-001	22090086	05/18/23	10/19/24	Lopez, Jose	48	4L	neat	neat

Veritech Control/Receipt Number: 15356

Description
Acetone

ApprovedBy: akmal
ApproveDate: 06/12/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
TEDIA	AA1111	22070110	06/09/23	07/23/24	Cajuste, Pierre	80	4 L	Neat	Neat

Veritech Control/Receipt Number: 15366

Description
Copper,99.5%, Shot, 20Mesh

ApprovedBy: akmal
ApproveDate: 06/16/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
GFS	6862	24002304	06/14/23	06/14/30	Hamid, Akmal	1	10 K	Neat	Neat

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-384611

Prepared By: Hamid, Akmal
Description: PEST/PCB GC LAB SURR (DANGER)
Prep Date: 11/28/2022
Expiration Date: 11/28/2023
Department: Organics
BatchNumber:
Concentration: 200 ppm
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 11/28/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14846	Decachlorobiphenyl	20 mg	NEAT neat	200 ppm
14847	2,4,5,6-Tetrachloro-m-xylene	20 mg	NEAT neat	200 ppm
14910	acetone	100 ml	neat neat	

Veritech Lot Number: V-393041

Prepared By: Rana, Priya
Description: PEST SPIKE (DANGER)
Prep Date: 4/6/2023
Expiration Date: 10/6/2023
Department: Organics
BatchNumber:
Concentration: 10 ppm
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 04/11/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15193	Pesticides Mix	500 ul	1000 ppm	10 ppm
15165	ACETONE	49.5 ml	Neat neat	

Veritech Lot Number: V-396329

Prepared By: User, Organics
Description: PURIFIED (BAKED) OTTAWA SAND
Prep Date: 5/30/2023
Expiration Date: 11/26/2023
Department: Organics
BatchNumber:
Concentration: NEAT neat
Final Volume: 3000 g
ApprovedBy: akmal
ApproveDate: 06/01/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15135	San Ottawa	3000 g	neat neat	neat neat

Veritech Lot Number: V-396477

Prepared By: McCracken, Kaitlyn
Description: PEST/PCB PREP SURR (danger)
Prep Date: 5/31/2023
Expiration Date: 11/28/2023
Department: Organics
BatchNumber:
Concentration: 10 ppm
Final Volume: 500 ml
ApprovedBy: akmal
ApproveDate: 06/01/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-384611	PEST/PCB GC LAB SURR (DANGER)	25 ml	200 ppm	10 ppm
15098	ACETONE	475 ml	neat neat	

Veritech Lot Number: V-397751

Prepared By: User, Organics
Description: BAKED sodium sulphate
Prep Date: 6/20/2023
Expiration Date: 7/22/2023
Department: Organics
BatchNumber:
Concentration: 4000 g
Final Volume: 4000 g
ApprovedBy: akmal
ApproveDate: 06/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15342	sodium sulfate	4000 g	neat neat	neat neat

Veritech Lot Number: V-397758

Prepared By: User, Organics
Description: 1:1 ACETONE /HEXANE MIX
Prep Date: 6/20/2023
Expiration Date: 12/8/2023
Department: Organics
BatchNumber:
Concentration: 1:1 ml
Final Volume: 10000 ml
ApprovedBy: akmal
ApproveDate: 06/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15356	Acetone	500 ml	Neat neat	
15286	n-hexanes	500 ml	neat neat	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14846

Description
Decachlorobiphenyl

ApprovedBy: akmal
ApproveDate: 09/26/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	BZ-209-10MG	13660800	09/26/22	09/30/24	Hamid, Akmal	3	10MG	NEAT	NEAT

Veritech Control/Receipt Number: 14847

Description
2,4,5,6-Tetrachloro-m-xylene

ApprovedBy: akmal
ApproveDate: 09/26/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-10542-100MG	13555000	09/26/22	10/31/26	Hamid, Akmal	3	100M	NEAT	NEAT

Veritech Control/Receipt Number: 14910

Description
acetone

ApprovedBy: jean
ApproveDate: 11/04/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9254-03	21J3062001	11/01/22	09/19/24	Lopez, Jose	2	4L	neat	neat

Veritech Control/Receipt Number: 15098

Description
ACETONE

ApprovedBy: akmal
ApproveDate: 02/15/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Tedia	AA1111	22070110	02/09/23	07/23/24	Lopez, Jose	48	4L	neat	neat

Veritech Control/Receipt Number: 15135

Description
San Ottawa

ApprovedBy: akmal
ApproveDate: 03/03/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Lab Sales Ervice	LS-2001100	122822	02/27/23	02/26/28	Lopez, Jose	4	6.6LB	neat	neat

Veritech Control/Receipt Number: 15165

Description
ACETONE

ApprovedBy: akmal
ApproveDate: 03/20/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
TEDIA	AA1111	22070110	03/17/23	03/16/28	Lopez, Jose	28	4L	Neat	Neat

Veritech Control/Receipt Number: 15193

Description
Pesticides Mix

ApprovedBy: akmal
ApproveDate: 04/11/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	M-8081-SC	220061191-01	04/05/23	07/06/25	Revolus, Jean	2	1ml	1000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15286

Description
n-hexanes

ApprovedBy: akmal
ApproveDate: 05/23/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Tedia	HA1721-001	22090086	05/18/23	10/19/24	Lopez, Jose	48	4L	neat	neat

Veritech Control/Receipt Number: 15342

Description
sodium sulfate

ApprovedBy: akmal
ApproveDate: 06/07/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Allan Corp.	6399	208404	06/05/23	06/04/28	Lopez, Jose	6	100L	neat	neat

Veritech Control/Receipt Number: 15356

Description
Acetone

ApprovedBy: akmal
ApproveDate: 06/12/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
TEDIA	AA1111	22070110	06/09/23	07/23/24	Cajuste, Pierre	80	4 L	Neat	Neat

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-384611

Prepared By: Hamid, Akmal
Description: PEST/PCB GC LAB SURR (DANGER)
Prep Date: 11/28/2022
Expiration Date: 11/28/2023
Department: Organics
BatchNumber:
Concentration: 200 ppm
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 11/28/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14846	Decachlorobiphenyl	20 mg	NEAT neat	200 ppm
14847	2,4,5,6-Tetrachloro-m-xylene	20 mg	NEAT neat	200 ppm
14910	acetone	100 ml	neat neat	

Veritech Lot Number: V-387836

Prepared By: Hamid, Akmal
Description: EVAL MIX (DANGER)
Prep Date: 1/16/2023
Expiration Date: 7/16/2023
Department: Organics
BatchNumber:
Concentration: 100 ppb
Final Volume: 25 ml
ApprovedBy: akmal
ApproveDate: 01/17/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14995	n-hexane	24983.75 ul	neat neat	
v-384611	PEST/PCB GC LAB SURR (DANGER)	12.5 ul	200 ppm	100 ppb
14700	4,4'-DDT STD.	2.5 ul	1000 ppm	100 ppb
14701	Endrin STD.	1.25 ul	1000 ppm	50 ppb

Veritech Lot Number: V-395679

Prepared By: Hamid, Akmal
Description: PEST SPIKE (DANGER)
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber:
Concentration: 10 ppm
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15193	Pesticides Mix	500 ul	1000 ppm	10 ppm
15190	ACETONE	49.5 ml	Neat neat	

Veritech Lot Number: V-395684

Prepared By: Hamid, Akmal
Description: TOX ICV INTER (DANGER)
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber:
Concentration: 50 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15079	Toxaphene/Camphechlor Soln.	50 ul	1000 ppm	50 ppm
v-384611	PEST/PCB GC LAB SURR (DANGER)	25 ul	200 ppm	5 ppm
15168	N - HEXANE 95%	925 ul	NEAT neat	

Veritech Lot Number: V-395686

Prepared By: Hamid, Akmal
Description: ICV@TOXAPHENE (DANGER)
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber:
Concentration: 500 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-395684	TOX ICV INTER (DANGER)	100 ul	50 ppm	500 ppb
15168	N - HEXANE 95%	9900 ul	NEAT neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-395721

Prepared By: Hamid, Akmal
Description: TOXAPHENE INTER (DANGER)
Prep Date: 5/18/2023
Expiration Date: 11/18/2023
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	850 ul	Neat neat	
v-384611	PEST/PCB GC LAB SURR (DANGER)	50 ul	200 ppm	10 ppm
14186	Toxaphene/Camphechlor Sol.	100 ul	1000 ppm	100 ppm

Veritech Lot Number: V-395722

Prepared By: Hamid, Akmal
Description: TOX@50PPB (DANGER)
Prep Date: 5/18/2023
Expiration Date: 11/18/2023
Department: Organics
BatchNumber: B-34825
Concentration: 50 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9000 ul	Neat neat	
V-395724	TOX@500PPB (DANGER)	1000 ul	500 ppb	50-5 ppb

Veritech Lot Number: V-395723

Prepared By: Hamid, Akmal
Description: TOX@200PPB (DANGER)
Prep Date: 5/18/2023
Expiration Date: 11/18/2023
Department: Organics
BatchNumber: B-34825
Concentration: 200 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9000	Neat neat	
V-395726	TOX@2000PPB (DANGER)	1000	2000 ppb	200-20 ppb

Veritech Lot Number: V-395724

Prepared By: Hamid, Akmal
Description: TOX@500PPB (DANGER)
Prep Date: 5/18/2023
Expiration Date: 11/18/2023
Department: Organics
BatchNumber: B-34825
Concentration: 500 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9950 ul	Neat neat	
V-395721	TOXAPHENE INTER (DANGER)	50 ul	100 ppm	500-50 ppb

Veritech Lot Number: V-395725

Prepared By: Hamid, Akmal
Description: TOX@1000PPB (DANGER)
Prep Date: 5/18/2023
Expiration Date: 11/18/2023
Department: Organics
BatchNumber: B-34825
Concentration: 1000 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9900 ul	Neat neat	
V-395721	TOXAPHENE INTER (DANGER)	100 ul	100 ppm	1000-100 pp

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-395726

Prepared By: Hamid, Akmal
Description: TOX@2000PPB (DANGER)
Prep Date: 5/18/2023
Expiration Date: 11/18/2023
Department: Organics
BatchNumber: B-34825
Concentration: 2000 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9800 ul	Neat neat	
V-395721	TOXAPHENE INTER (DANGER)	200 ul	100 ppm	2000-200 pp

Veritech Lot Number: V-395727

Prepared By: Hamid, Akmal
Description: TOX@4000PPB (DANGER)
Prep Date: 5/18/2023
Expiration Date: 11/18/2023
Department: Organics
BatchNumber: B-34825
Concentration: 4000 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9600 ul	Neat neat	
V-395721	TOXAPHENE INTER (DANGER)	400 ul	100 ppm	4000-400 pp

Veritech Lot Number: V-395731

Prepared By: Hamid, Akmal
Description: CHLOR INTER (DANGER)
Prep Date: 5/18/2023
Expiration Date: 11/18/2023
Department: Organics
BatchNumber:
Concentration: 10 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 05/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	940 ul	Neat neat	
v-384611	PEST/PCB GC LAB SURR (DANGER)	50 ul	200 ppm	10 ppm
14842	Chlordane STD.	10 ul	1000 ppm	10 ppm

Veritech Lot Number: V-395733

Prepared By: Hamid, Akmal
Description: CAL CHLORDANE@100PPB (DANGE
Prep Date: 5/18/2023
Expiration Date: 11/18/2023
Department: Organics
BatchNumber:
Concentration: 100 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9900 ul	Neat neat	
V-395731	CHLOR INTER (DANGER)	100 ul	10 ppm	100 ppb

Veritech Lot Number: V-395734

Prepared By: Hamid, Akmal
Description: PEST INTERM. (DANGER)
Prep Date: 5/18/2023
Expiration Date: 11/18/2023
Department: Organics
BatchNumber:
Concentration: 10 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9450 ul	Neat neat	
v-384611	PEST/PCB GC LAB SURR (DANGER)	500 ul	200 ppm	10 ppm
14482	Organochlorine Pesticide Mix AB#3	50 ul	2000 ppm	10 ppm

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-395736

Prepared By: Hamid, Akmal
Description: PEST 400PPB CURVE
Prep Date: 5/18/2023
Expiration Date: 11/18/2023
Department: Organics
BatchNumber: B-34826
Concentration: 400 ppb
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	48000 ul	Neat neat	
V-395734	PEST INTERM. (DANGER)	2000 ul	10 ppm	400 ppb

Veritech Lot Number: V-395737

Prepared By: Hamid, Akmal
Description: PEST 200PPB CURVE
Prep Date: 5/18/2023
Expiration Date: 11/18/2023
Department: Organics
BatchNumber: B-34826
Concentration: 200 ppb
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	49000 ul	Neat neat	
V-395734	PEST INTERM. (DANGER)	1000 ul	10 ppm	200 ppb

Veritech Lot Number: V-395738

Prepared By: Hamid, Akmal
Description: PEST 100PPB CURVE
Prep Date: 5/18/2023
Expiration Date: 11/18/2023
Department: Organics
BatchNumber: B-34826
Concentration: 100 ppb
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	49500 ul	Neat neat	
V-395734	PEST INTERM. (DANGER)	500 ul	10 ppm	100 ppb

Veritech Lot Number: V-395739

Prepared By: Hamid, Akmal
Description: PEST 50PPB CURVE
Prep Date: 5/18/2023
Expiration Date: 11/18/2023
Department: Organics
BatchNumber: B-34826
Concentration: 50 ppb
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	49750 ul	Neat neat	
V-395734	PEST INTERM. (DANGER)	250 ul	10 ppm	50 ppb

Veritech Lot Number: V-395740

Prepared By: Hamid, Akmal
Description: PEST 10PPB CURVE
Prep Date: 5/18/2023
Expiration Date: 11/18/2023
Department: Organics
BatchNumber: B-34826
Concentration: 10 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9000 ul	Neat neat	
V-395738	PEST 100PPB CURVE	1000 ul	100 ppb	10 ppb

Veritech Lot Number: V-395741

Prepared By: Hamid, Akmal
Description: PEST 2PPB CURVE
Prep Date: 5/18/2023
Expiration Date: 11/18/2023
Department: Organics
BatchNumber: B-34826
Concentration: 2 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9900 ul	Neat neat	
V-395737	PEST 200PPB CURVE	100 ul	200 ppb	2 ppb

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-395745

Prepared By: Hamid, Akmal
Description: ICV PEST (DANGER)
Prep Date: 5/17/2023
Expiration Date: 11/11/2023
Department: Organics
BatchNumber:
Concentration: 100 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9895 ul	Neat neat	
V-384611	PEST/PCB GC LAB SURR (DANGER)	5 ul	200 ppm	100 ppb
V-395679	PEST SPIKE (DANGER)	100 ul	10 ppm	100 ppb

Veritech Lot Number: V-397504

Prepared By: Hamid, Akmal
Description: PEST/PCB GC LAB SURR (DANGER)
Prep Date: 6/15/2023
Expiration Date: 6/15/2024
Department: Organics
BatchNumber:
Concentration: 200 ppm
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 06/16/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14846	Decachlorobiphenyl	20 mg	NEAT neat	200 ppm
14847	2,4,5,6-Tetrachloro-m-xylene	20 mg	NEAT neat	200 ppm
15275	acetone	100 ml	neat neat	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14186

Description: Toxaphene/Camphechlor Sol.

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	S-13586J4-1ML	12062100	09/14/21	07/31/26	Hamid, Akmal	5	1ML	1000	PPM

Veritech Control/Receipt Number: 14482

Description: Organochlorine Pesticide Mix AB#3

ApprovedBy: akmal
ApproveDate: 03/10/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Restek	32415	A0175346	03/10/22	12/31/25	Hamid, Akmal	1	1ML	2000	PPM

Veritech Control/Receipt Number: 14700

Description: 4,4'-DDT STD.

ApprovedBy: akmal
ApproveDate: 06/27/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Restek	32203	A0185083	06/27/22	09/30/26	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 14701

Description: Endrin STD.

ApprovedBy: akmal
ApproveDate: 06/27/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Restek	32463	A0185034	06/27/22	05/31/26	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 14842

Description: Chlordane STD.

ApprovedBy: akmal
ApproveDate: 09/26/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Agilent	PST-110M1000	0006689832	09/26/22	07/31/24	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 14846

Description: Decachlorobiphenyl

ApprovedBy: akmal
ApproveDate: 09/26/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	BZ-209-10MG	13660800	09/26/22	09/30/24	Hamid, Akmal	3	10MG	NEAT	NEAT

Veritech Control/Receipt Number: 14847

Description: 2,4,5,6-Tetrachloro-m-xylene

ApprovedBy: akmal
ApproveDate: 09/26/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-10542-100MG	13555000	09/26/22	10/31/26	Hamid, Akmal	3	100M	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14910

Description	ApprovedBy: jean ApproveDate: 11/04/22 Checked: Yes
acetone	

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9254-03	21J3062001	11/01/22	09/19/24	Lopez, Jose	2	4L	neat	neat

Veritech Control/Receipt Number: 14995

Description	ApprovedBy: akmal ApproveDate: 12/23/22 Checked: Yes
n-hexane	

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Tedia	HA1721	22090086	12/22/22	10/19/24	Lopez, Jose	48	4L	neat	neat

Veritech Control/Receipt Number: 15079

Description	ApprovedBy: akmal ApproveDate: 02/15/23 Checked: Yes
Toxaphene/Camphechlor Soln.	

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	S-13586J4-1ML	13577800	02/03/23	07/31/26	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 15168

Description	ApprovedBy: akmal ApproveDate: 03/23/23 Checked: Yes
N - HEXANE 95%	

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
TEDIA	HA1721	22090086	03/23/23	03/22/28	Lopez, Jose	48	4L	NEAT	NEAT

Veritech Control/Receipt Number: 15190

Description	ApprovedBy: akmal ApproveDate: 04/11/23 Checked: Yes
ACETONE	

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
TEDIA	AA1111	22070110	04/04/23	04/03/28	Longton, Rhys	60	4L	Neat	Neat

Veritech Control/Receipt Number: 15192

Description	ApprovedBy: akmal ApproveDate: 04/11/23 Checked: Yes
HEXANE	

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
TEDIA	HA1721	22090086	04/04/23	04/03/28	Longton, Rhys	60	4L	Neat	Neat

Veritech Control/Receipt Number: 15193

Description	ApprovedBy: akmal ApproveDate: 04/11/23 Checked: Yes
Pesticides Mix	

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	M-8081-SC	220061191-01	04/05/23	07/06/25	Revolus, Jean	2	1ml	1000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15275

Description
acetone

ApprovedBy: akmal
ApproveDate: 05/16/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Tedia	AA1111	22070110	05/15/23	07/23/24	Lopez, Jose	48	4L	neat	neat

GC Herbicide Data

GC Herbicide Data
QC Summary

FORM2

Surrogate Recovery

Method: EPA 8151A

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column2 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
12G41992.D	SMB108924	S	06/27/23 13:11	1		65	77				
12G42009.D	AD38586-001	S	06/28/23 02:40	1		50	57				
12G42010.D	AD38586-002	S	06/28/23 03:00	1		66	81				
12G41994.D	AD38586-007(MS:AD38	S	06/27/23 13:51	2		50	63				
12G41995.D	AD38586-008(MSD:AD3	S	06/27/23 14:11	2		55	69				
12G41993.D	SMB108924(MS)	S	06/27/23 13:31	1		58	68				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8151A

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Dcaa-Surrogate	935.84	10-160
S2=Dcaa-Surrogate	935.84	10-160

Form3
Recovery Data Laboratory Limits
QC Batch: SMB108924

	Data File	Sample ID:	Analysis Date
Spike or Dup:	12G41993.D	SMB108924(MS)	6/27/2023 1:31:34 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8151 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Dicamba	**1**	**204.18**	**0**	**376.08**	**54**	**25**	**130**
2,4-D	**1**	**215.35**	**0**	**376.08**	**57**	**10**	**130**
Silvex	**1**	**217.93**	**0**	**380.17**	**57**	**25**	**130**
2,4,5-T	**1**	**205.34**	**0**	**379.14**	**54**	**25**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form

Form3
Recovery Data Laboratory Limits
QC Batch: SMB108924

	Data File	Sample ID:	Analysis Date
Spike or Dup:	12G41994.D	AD38586-007(MS:AD38586-00	6/27/2023 1:51:34 PM
Non Spike(If applicable):	12G42009.D	AD38586-001	6/28/2023 2:40:25 AM
Inst Blank(If applicable):			

Method: 8151 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Dicamba	1	167.22	0	376.08	44	25	130
2,4-D	1	180.06	0	376.08	48	10	130
Silvex	1	187.9	0	380.17	49	25	130
2,4,5-T	1	170.84	0	379.14	45	25	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	12G41995.D	AD38586-008(MSD:AD38586-0	6/27/2023 2:11:35 PM
Non Spike(If applicable):	12G42009.D	AD38586-001	6/28/2023 2:40:25 AM
Inst Blank(If applicable):			

Method: 8151 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Dicamba	1	186.4	0	376.08	50	25	130
2,4-D	1	207.78	0	376.08	55	10	130
Silvex	1	213.54	0	380.17	56	25	130
2,4,5-T	1	193.32	0	379.14	51	25	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form

Form3
RPD Data Laboratory Limits
QC Batch: SMB108924

	Data File	Sample ID:	Analysis Date
Spike or Dup:	12G41995.D	AD38586-008(MSD:AD38586-0	6/27/2023 2:11:35 PM
Duplicate(If applicable):	12G41994.D	AD38586-007(MS:AD38586-00	6/27/2023 1:51:34 PM
Inst Blank(If applicable):			

Method: 8151 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Dicamba	1	186.4	167.22	11	40
2,4-D	1	207.78	180.06	14	40
Silvex	1	213.54	187.9	13	40
2,4,5-T	1	193.32	170.84	12	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB108924
Blank Data File: 12G41992.D
Matrix: Soil

Blank Analysis Date: 06/27/23 13:11
Blank Extraction Date: 06/26/23
(If Applicable)
Method: EPA 8151A

Sample Number	Data File	Analysis Date
AD38586-001	12G42009.D	06/28/23 02:40
AD38586-002	12G42010.D	06/28/23 03:00
AD38586-007(MS:	12G41994.D	06/27/23 13:51
AD38586-008(MSD	12G41995.D	06/27/23 14:11
SMB108924(MS)	12G41993.D	06/27/23 13:31

Form 5

Method: EPA 8151A

Instrument: GC_12

Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
12G41150.D	CAL HERB@50PPB	05/22/23 09:11	Aqueous	12G4115	8.0932	0	8.2552	0
12G41151.D	CAL HERB@100PPB	05/22/23 09:31	Aqueous	12G4115	8.0923	0.0111	8.2570	0.0218
12G41152.D	CAL HERB@200PPB	05/22/23 09:51	Aqueous	12G4115	8.0926	0.0074	8.2571	0.023
12G41153.D	CAL HERB@400PPB	05/22/23 10:11	Aqueous	12G4115	8.0938	0.0074	8.2576	0.0291
12G41154.D	CAL HERB@500PPB	05/22/23 10:31	Aqueous	12G4115	8.0943	0.0136	8.2574	0.0266
12G41155.D	CAL HERB@600PPB	05/22/23 10:51	Aqueous	12G4115	8.0942	0.0124	8.2578	0.0315
12G41156.D	ICV HERB	05/22/23 11:16	Aqueous	12G4115	8.0932	0	8.2565	0.0157
12G41157.D	TEST	05/22/23 11:36	Aqueous	12G4115	8.0925	0.0086	8.2575	0.0278
12G41158.D	WMB108540	05/22/23 12:20	Aqueous	12G4115	8.0922	0.0124	8.2550	0.0024
12G41159.D	WMB108540(MS)	05/22/23 12:40	Aqueous	12G4115	8.0910	0.0272	8.2563	0.0133
12G41160.D	AD37540-006	05/22/23 13:00	Aqueous	12G4115	8.0914	0.0222	8.2564	0.0145
12G41161.D	AD37540-006(5X)	05/22/23 13:25	Aqueous	12G4115	8.0909	0.0284	8.2557	0.0061
12G41162.D	37540-006(10X)	05/22/23 13:45	Aqueous	12G4115	8.0890	0.0519	8.2562	0.0121
12G41163.D	AD37977-001(T)(MS)	05/22/23 14:11	Aqueous	12G4115	8.0922	0.0124	8.2561	0.0109
12G41164.D	AD37977-001(T)(MSD)	05/22/23 14:43	Aqueous	12G4115	8.0927	0.0062	8.2556	0.0048
12G41165.D	WMB108507	05/22/23 15:03	Aqueous	12G4115	8.0906	0.0321	8.2568	0.0194
12G41166.D	WMB108507(MS)	05/22/23 15:23	Aqueous	12G4115	8.0907	0.0309	8.2570	0.0218
12G41167.D	AD37999-001	05/22/23 15:42	Aqueous	12G4115	8.0905	0.0334	8.2573	0.0254
12G41168.D	AD38008-004(T)	05/22/23 16:02	Aqueous	12G4115	8.0899	0.0408	8.2573	0.0254
12G41169.D	AD38008-003(T)	05/22/23 16:22	Aqueous	12G4115	8.0894	0.047	8.2567	0.0182
12G41170.D	AD38008-001(T)	05/22/23 16:42	Aqueous	12G4115	8.0899	0.0408	8.2571	0.023
12G41171.D	CAL HERB@200PPB	05/22/23 17:02	Aqueous	12G4115	8.0898	0.042	8.2575	0.0278

Drift Compound: Dcaa-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8151A

Instrument: GC_12 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
12G41979.D	200PPB	06/27/23 01:00	Aqueous					
12G41980.D	CAL HERB@200PPB	06/27/23 01:20	Aqueous	12G4198	8.0626	0	8.2593	0
12G41981.D	AD38611-006(T)	06/27/23 01:40	Aqueous	12G4198	8.0602	0.0298	8.2576	0.0206
12G41982.D	AD38611-017(T)	06/27/23 02:00	Aqueous	12G4198	8.0612	0.0174	8.2579	0.017
12G41983.D	AD38611-028(T)	06/27/23 02:20	Aqueous	12G4198	8.0608	0.0223	8.2580	0.0157
12G41984.D	AD38611-034(T)	06/27/23 02:40	Aqueous	12G4198	8.0610	0.0198	8.2577	0.0194
12G41985.D	EF-1-V-397559(06/22/23	06/27/23 03:00	Aqueous	12G4198	8.0603	0.0285	8.2580	0.0157
12G41986.D	EF-1-V-397210(04/15/23	06/27/23 03:20	Aqueous	12G4198	8.0605	0.026	8.2573	0.0242
12G41987.D	EF-1-V-39559(06/21/23)	06/27/23 03:40	Aqueous	12G4198	8.0602	0.0298	8.2575	0.0218
12G41988.D	EF-1-V-397210(06/16/23	06/27/23 04:00	Aqueous	12G4198	8.0602	0.0298	8.2574	0.023
12G41989.D	CAL HERB@200PPB	06/27/23 07:16	Aqueous	12G4198	8.0630	0.005	8.2561	0.0388
12G41990.D	108924	06/27/23 12:31	Soil	12G4198	8.0619	0.0136	8.2557	0.0048
12G41991.D	108924(MS)	06/27/23 12:51	Soil	12G4198	8.0595	0.0434	8.2565	0.0049
12G41992.D	SMB108924	06/27/23 13:11	Soil	12G4198	8.0590	0.0496	8.2566	0.0061
12G41993.D	SMB108924(MS)	06/27/23 13:31	Soil	12G4198	8.0593	0.0459	8.2566	0.0061
12G41994.D	AD38586-007(MS:AD38	06/27/23 13:51	Soil	12G4198	8.0583	0.0583	8.2568	0.0085
12G41995.D	AD38586-008(MSD:AD3	06/27/23 14:11	Soil	12G4198	8.0578	0.0645	8.2572	0.0133
12G41996.D	AD38582-001(2X)	06/27/23 14:31	Soil	12G4198	8.0586	0.0546	8.2567	0.0073
12G41997.D	AD38582-002	06/27/23 14:51	Soil	12G4198	8.0583	0.0583	8.2570	0.0109
12G41998.D	AD38582-003	06/27/23 15:11	Soil	12G4198	8.0587	0.0533	8.2568	0.0085
12G41999.D	AD38582-004(2X)	06/27/23 15:31	Soil	12G4198	8.0580	0.062	8.2561	0
12G42000.D	WMB108910	06/27/23 15:51	Aqueous	12G4198	8.0599	0.0384	8.2565	0.0049
12G42001.D	WMB108910(MS)	06/27/23 16:11	Aqueous	12G4198	8.0604	0.0322	8.2578	0.0206
12G42002.D	AD38674-002	06/27/23 16:32	Soil	12G4198	8.0583	0.0583	8.2563	0.0024
12G42003.D	CAL HERB@200PPB	06/27/23 16:52	Aqueous	12G4198	8.0602	0.0347	8.2574	0.0157

Drift Compound: Dcaa-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8151A

Instrument: GC_12

Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
12G42004.D	200PPB	06/28/23 01:01	Soil					
12G42005.D	CAL HERB@200PPB	06/28/23 01:20	Soil	12G4200	8.0618	0	8.2583	0
12G42006.D	AD38673-003	06/28/23 01:40	Soil	12G4200	8.0597	0.0261	8.2576	0.0085
12G42007.D	38586-008	06/28/23 02:00	Soil	12G4200	8.0584	0.0422	8.2568	0.0182
12G42008.D	AD38673-001	06/28/23 02:20	Soil	12G4200	8.0593	0.031	8.2573	0.0121
12G42009.D	AD38586-001	06/28/23 02:40	Soil	12G4200	8.0586	0.0397	8.2570	0.0157
12G42010.D	AD38586-002	06/28/23 03:00	Soil	12G4200	8.0591	0.0335	8.2572	0.0133
12G42011.D	38586-007	06/28/23 03:20	Soil	12G4200	8.0583	0.0434	8.2566	0.0206
12G42012.D	AD38704-002	06/28/23 03:40	Soil	12G4200	8.0588	0.0372	8.2569	0.017
12G42013.D	AD38704-004	06/28/23 04:00	Soil	12G4200	8.0585	0.0409	8.2569	0.017
12G42014.D	AD38704-006	06/28/23 04:20	Soil	12G4200	8.0594	0.0298	8.2576	0.0085
12G42015.D	AD38705-002	06/28/23 04:40	Soil	12G4200	8.0590	0.0347	8.2566	0.0206
12G42016.D	AD38705-004	06/28/23 04:59	Soil	12G4200	8.0595	0.0285	8.2574	0.0109
12G42017.D	AD38705-006	06/28/23 05:19	Soil	12G4200	8.0596	0.0273	8.2565	0.0218
12G42018.D	AD38673-002(2X)	06/28/23 05:39	Soil	12G4200	8.0579	0.0484	8.2565	0.0218
12G42019.D	AD38695-001(T)(MS)	06/28/23 05:59	Aqueous	12G4200	8.0598	0.0248	8.2570	0.0157
12G42020.D	AD38695-001(T)(MSD)	06/28/23 06:19	Aqueous	12G4200	8.0593	0.031	8.2580	0.0036
12G42021.D	AD38589-008(T)	06/28/23 06:39	Aqueous	12G4200	8.0610	0.0099	8.2594	0.0133
12G42022.D	AD38717-008(T)	06/28/23 06:59	Aqueous	12G4200	8.0593	0.031	8.2585	0.0024
12G42023.D	AD38691-007(T)	06/28/23 07:19	Aqueous	12G4200	8.0590	0.0347	8.2578	0.0061
12G42024.D	CAL HERB@200PPB	06/28/23 07:39	Soil	12G4200	8.0610	0.0099	8.2578	0.0061
12G42025.D	SMB108900	06/28/23 08:02	Soil	12G4202	8.0597	0.0161	8.2567	0.0133
12G42026.D	SMB108900(MS)	06/28/23 08:22	Soil	12G4202	8.0587	0.0285	8.2568	0.0121
12G42027.D	AD38633-019(MS)	06/28/23 08:42	Soil	12G4202	8.0586	0.0298	8.2568	0.0121
12G42028.D	AD38633-019(MSD)	06/28/23 09:02	Soil	12G4202	8.0581	0.036	8.2563	0.0182
12G42029.D	AD38633-019	06/28/23 09:22	Soil	12G4202	8.0568	0.0521	8.2551	0.0327
12G42030.D	AD38589-017(T)	06/28/23 09:42	Aqueous	12G4202	0.0000	200 *	8.2569	0.0109
12G42031.D	AD38691-013(T)	06/28/23 10:02	Aqueous	12G4202	8.0634	0.0298	8.2596	0.0218
12G42032.D	AD38633-009	06/28/23 10:22	Soil	12G4202	8.0581	0.036	8.2567	0.0133
12G42033.D	AD38633-014	06/28/23 10:42	Soil	12G4202	8.0585	0.031	8.2567	0.0133
12G42034.D	AD38633-069	06/28/23 11:02	Soil	12G4202	8.0588	0.0273	8.2564	0.017
12G42035.D	AD38633-074	06/28/23 11:22	Soil	12G4202	8.0576	0.0422	8.2562	0.0194
12G42036.D	AD38633-084	06/28/23 11:42	Soil	12G4202	8.0590	0.0248	8.2569	0.0109
12G42037.D	AD38633-024	06/28/23 12:02	Soil	12G4202	8.0578	0.0397	8.2568	0.0121
12G42038.D	AD38633-029	06/28/23 12:23	Soil	12G4202	8.0583	0.0335	8.2570	0.0097
12G42039.D	AD38633-034	06/28/23 12:43	Soil	12G4202	8.0583	0.0335	8.2562	0.0194
12G42040.D	AD38633-039	06/28/23 13:03	Soil	12G4202	8.0600	0.0124	8.2559	0.023
12G42041.D	AD38633-044	06/28/23 13:23	Soil	12G4202	8.0581	0.036	8.2569	0.0109
12G42042.D	AD38633-049	06/28/23 13:43	Soil	12G4202	8.0582	0.0347	8.2565	0.0157
12G42043.D	AD38633-054	06/28/23 14:03	Soil	12G4202	8.0581	0.036	8.2571	0.0085

Drift Compound: Dcaa-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

GC Herbicide Data
Sample Data

Form1

ORGANICS HERBICIDE REPORT

Sample Number: AD38586-001
Client Id: HB-1 +QA\QC
Data File: 12G42009.D
Analysis Date: 06/28/23 02:40
Date Rec/Extracted: 06/14/23-06/26/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8151A
Matrix: Soil
Initial Vol: 50g
Final Vol: 10ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
93-76-5	2,4,5-T	0.011	U	1918-00-9	Dicamba	0.011	U
94-75-7	2,4-D	0.011	U	93-72-1	Silvex	0.011	U

Worksheet #: 696586

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-28-23\
Data File : 12G42009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28-Jun-23, 02:40:25
Operator : PR/KM/AH
Sample : AD38586-001
Misc : S,HERB
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 09:33:59 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
2)Dcaa-Surrogate	8.059	8.257	252.3E6	71000591	463.842	534.812

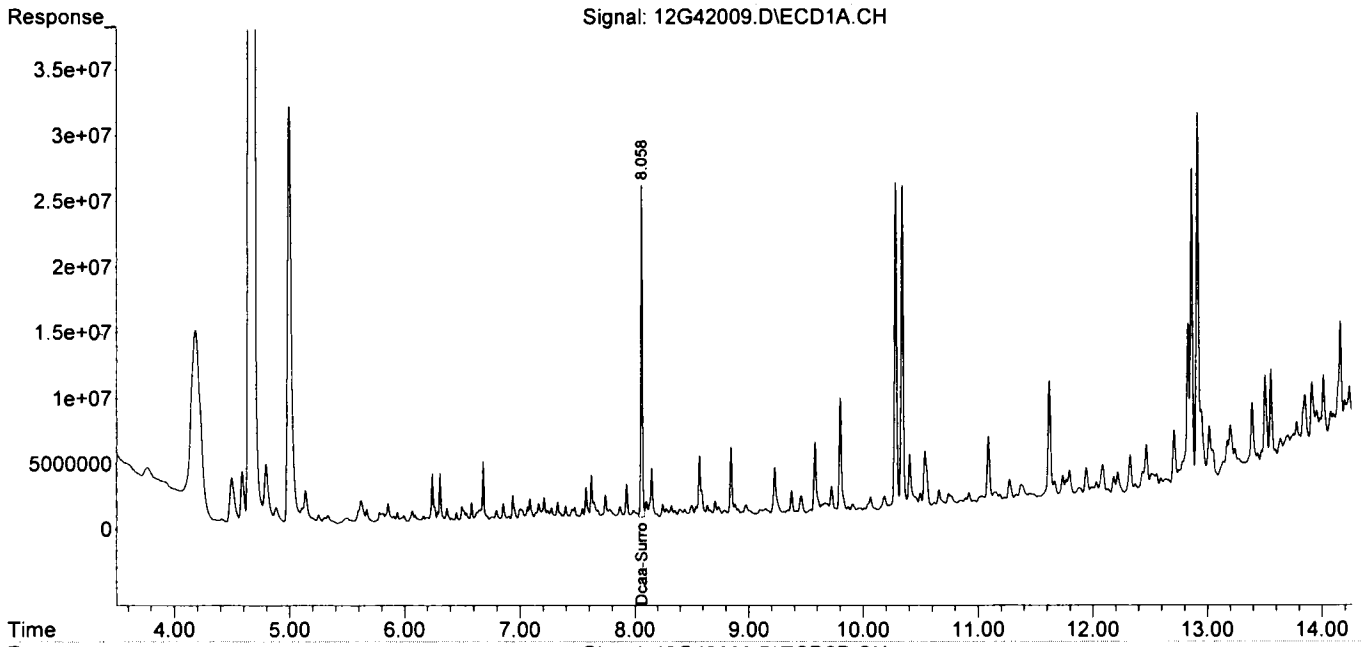
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

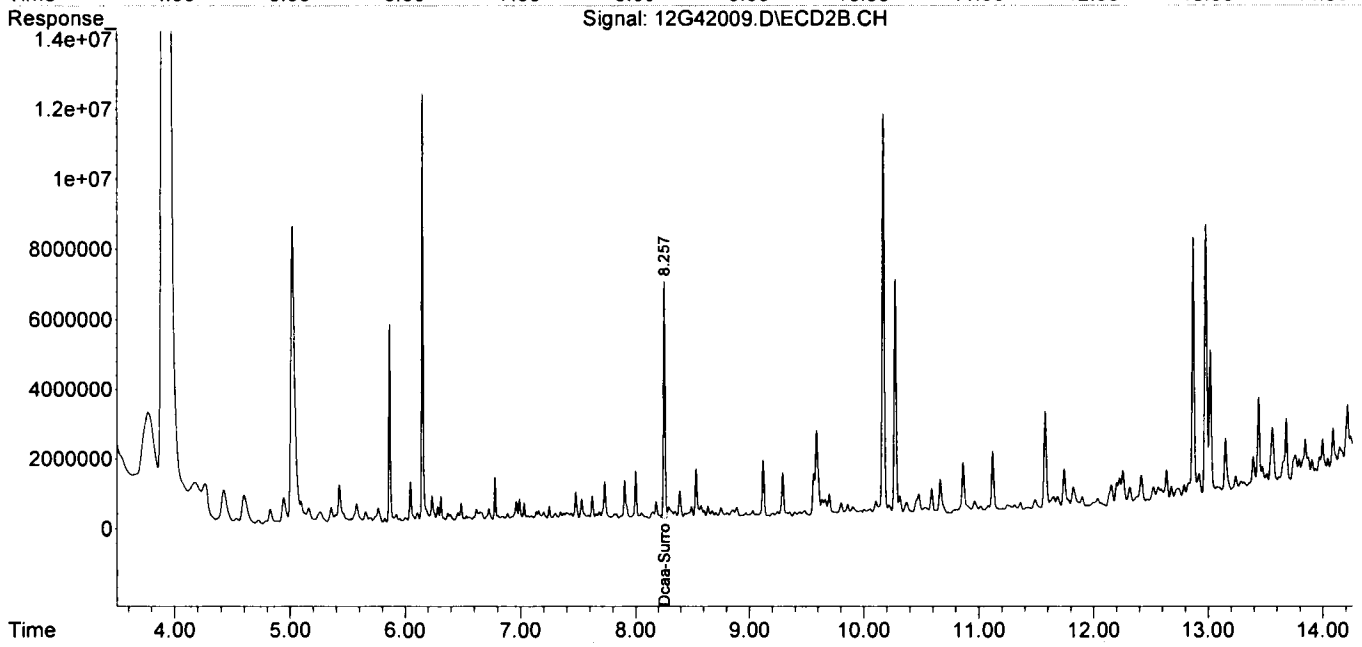
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-28-23\
Data File : 12G42009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28-Jun-23, 02:40:25
Operator : PR/KM/AH
Sample : AD38586-001
Misc : S,HERB
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 09:33:59 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS HERBICIDE REPORT

Sample Number: AD38586-002
Client Id: DUP
Data File: 12G42010.D
Analysis Date: 06/28/23 03:00
Date Rec/Extracted: 06/14/23-06/26/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8151A
Matrix: Soil
Initial Vol: 50g
Final Vol: 10ml
Dilution: 1
Solids: 73

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
93-76-5	2,4,5-T	0.013	U	1918-00-9	Dicamba	0.013	U
94-75-7	2,4-D	0.013	U	93-72-1	Silvex	0.013	U

Worksheet #: 696586

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2023\GC_12\Data\06-28-23\
Data File : 12G42010.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28-Jun-23, 03:00:20
Operator : PR/KM/AH
Sample : AD38586-002
Misc : S,HERB
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 09:34:26 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
2)Dcaa-Surrogate	8.059	8.257	337.8E6	100.2E6	621.165	754.933

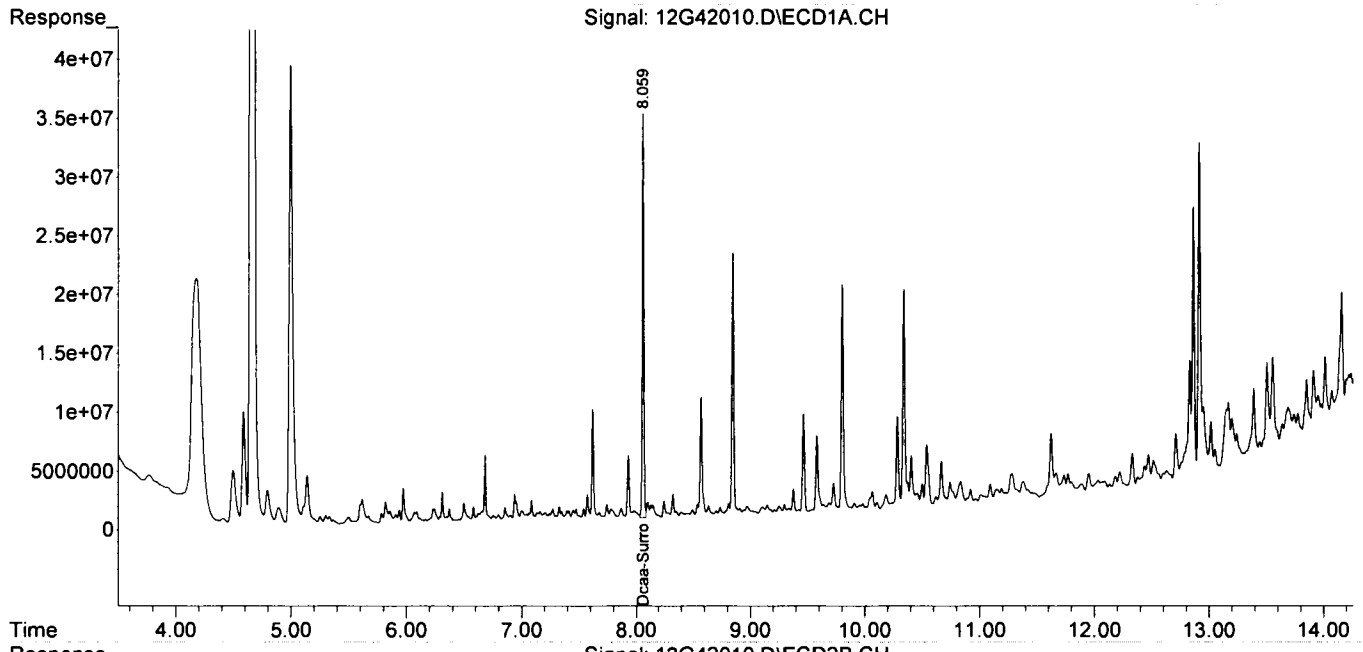
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

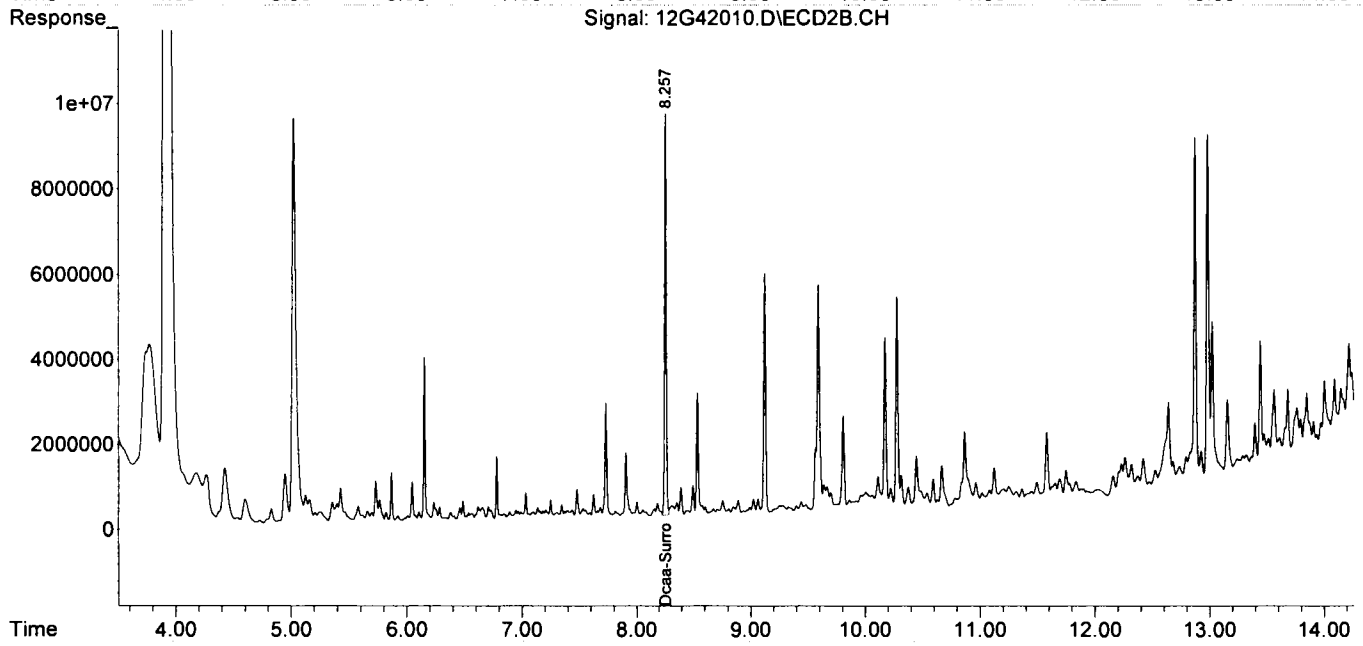
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-28-23\
Data File : 12G42010.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28-Jun-23, 03:00:20
Operator : PR/KM/AH
Sample : AD38586-002
Misc : S,HERB
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 09:34:26 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS HERBICIDE REPORT

Sample Number: AD38586-007(MS:AD38
Client Id: HB-1 +QA\QC MS
Data File: 12G41994.D
Analysis Date: 06/27/23 13:51
Date Rec/Extracted: 06/14/23-06/26/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8151A
Matrix: Soil
Initial Vol: 50g
Final Vol: 10ml
Dilution: 1
Solids: 82

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
93-76-5	(^)2,4,5-T	0.012	0.023 R	1918-00-9	(^)Dicamba	0.011	0.023 R
94-75-7	2,4-D	0.011	0.022 R	93-72-1	(^)Silvex	0.012	0.025 R

Worksheet #: 696586

Total Target Concentration 0.022

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2023\GC_12\Data\06-27-23\
Data File : 12G41994.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27-Jun-23, 13:51:34
Operator : PR/KM/AH
Sample : AD38586-007(MS:AD38586-001)(2X)
Misc : S,HERB:2
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 14:18:14 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
1)Dalapon	4.490	4.485	101.7E6	15023322	143.272	77.250 #
2)Dcaa-Surrogate	8.058	8.257	127.3E6	39330451	234.016m	296.257 #
3)Dicamba	8.197	8.442	168.5E6	48292884	83.611m	93.935
4)Dichloroprop	8.744	8.838	49631821	14519706	99.183	114.402m
5)2,4-D	9.036	9.171	49888207	13427836	90.031	82.497m
6)Silvex	9.599	9.696	271.5E6	75282269	93.948	101.555m
7)2,4,5-T	9.981	10.123	218.9E6	64305721	85.417	95.275
8)2,4-DB	10.406	10.484	44758735	15829039	142.967m	169.981m
9)Dinoseb	10.872	10.213	30370046	9748958	17.379	19.281
10)Picloram	11.878	12.151	138.1E6	45328969	58.415	62.964

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

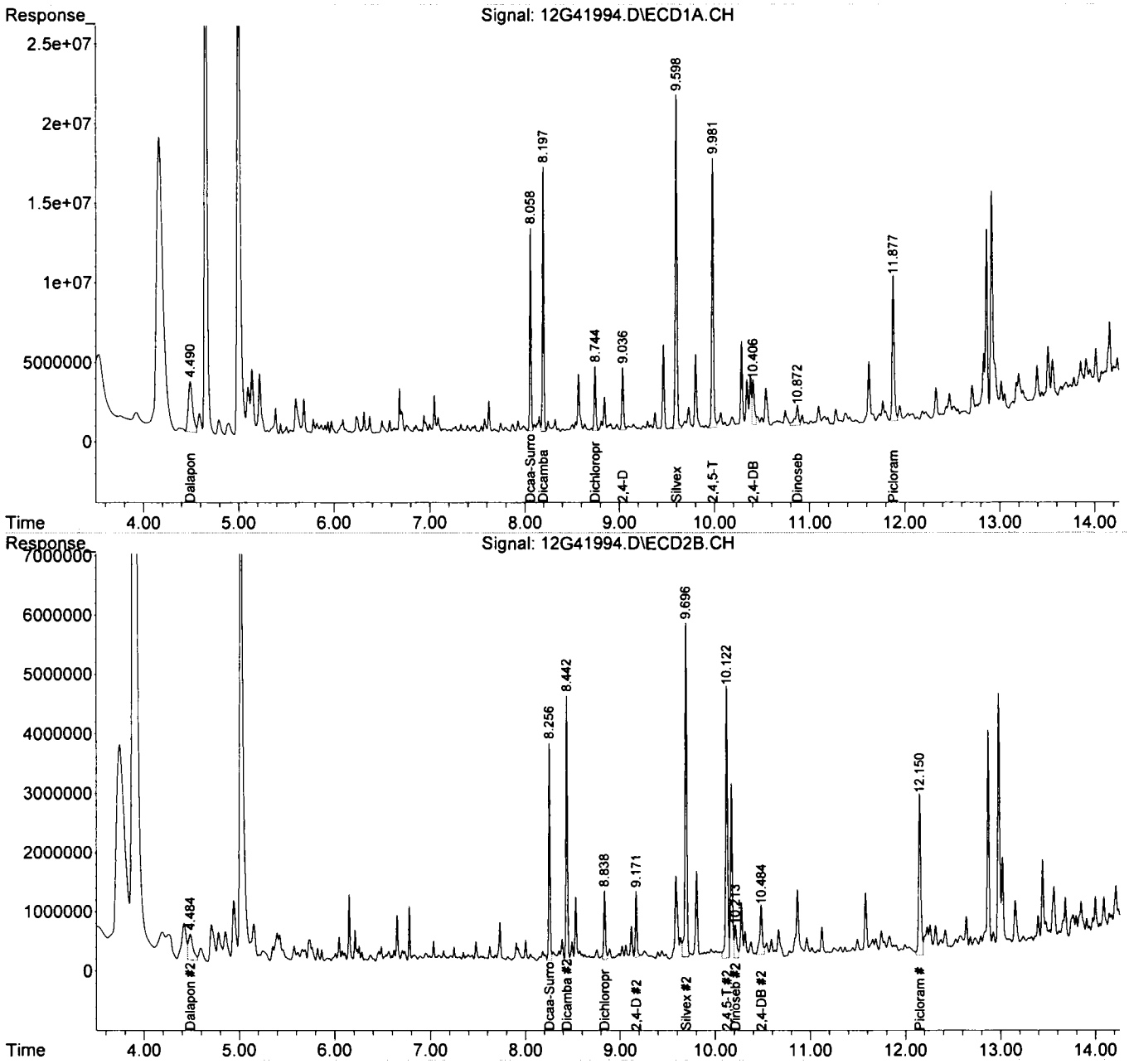
PQ

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-27-23\
Data File : 12G41994.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27-Jun-23, 13:51:34
Operator : PR/KM/AH
Sample : AD38586-007(MS:AD38586-001)(2X)
Misc : S,HERB:2
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 14:18:14 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



Form1

ORGANICS HERBICIDE REPORT

Sample Number: AD38586-008(MS:AD38
Client Id: HB-1 +QA\QC MSD
Data File: 12G41995.D
Analysis Date: 06/27/23 14:11
Date Rec/Extracted: 06/14/23-06/26/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8151A
Matrix: Soil
Initial Vol: 50g
Final Vol: 10ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
93-76-5	(^)2,4,5-T	0.011	0.024 R	1918-00-9	(^)Dicamba	0.011	0.025 R
94-75-7	2,4-D	0.011	0.025 R	93-72-1	(^)Silvex	0.011	0.028 R

Worksheet #: 696586

Total Target Concentration 0.025

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2023\GC_12\Data\06-27-23\
Data File : 12G41995.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27-Jun-23, 14:11:35
Operator : PR/KM/AH
Sample : AD38586-008(MS:AD38586-001)(2X)
Misc : S,HERB:2
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 14:41:38 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
1)Dalapon	4.489	4.486	109.7E6	17319577	154.528	89.058 #
2)Dcaa-Surrogate	8.058	8.257	139.0E6	43153209	255.602m	325.052 #
3)Dicamba	8.197	8.442	187.8E6	53353110	93.202m	103.777
4)Dichloroprop	8.744	8.839	52141288	16888009	104.198	133.062 #
5)2,4-D	9.036	9.172	57570830	16641293	103.895	102.239
6)Silvex	9.599	9.696	308.5E6	85760683	106.768	115.691
7)2,4,5-T	9.981	10.122	247.7E6	66626602	96.661	98.713m
8)2,4-DB	10.406	10.484	66311830	13923181	211.811	149.514m#
9)Dinoseb	10.872	10.213	37065605	12423957	21.210	24.571
10)Picloram	11.876	12.151	200.7E6	59228787	82.936	82.271

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

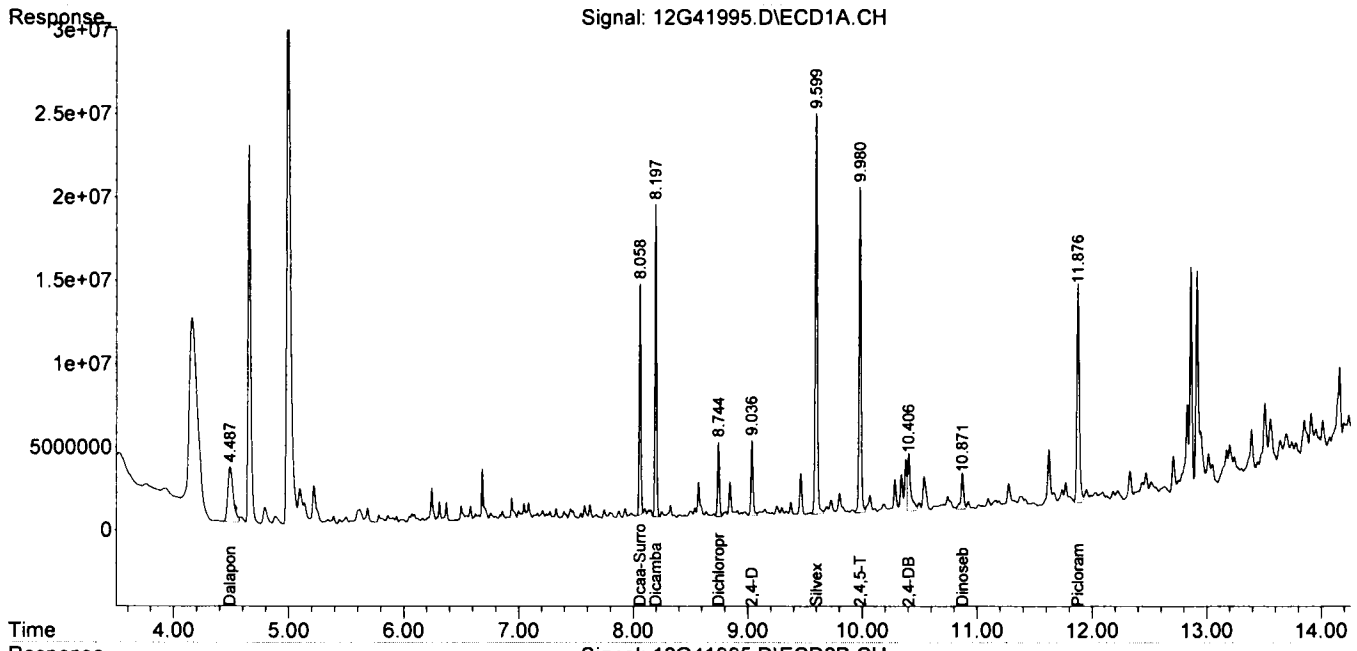
PQ

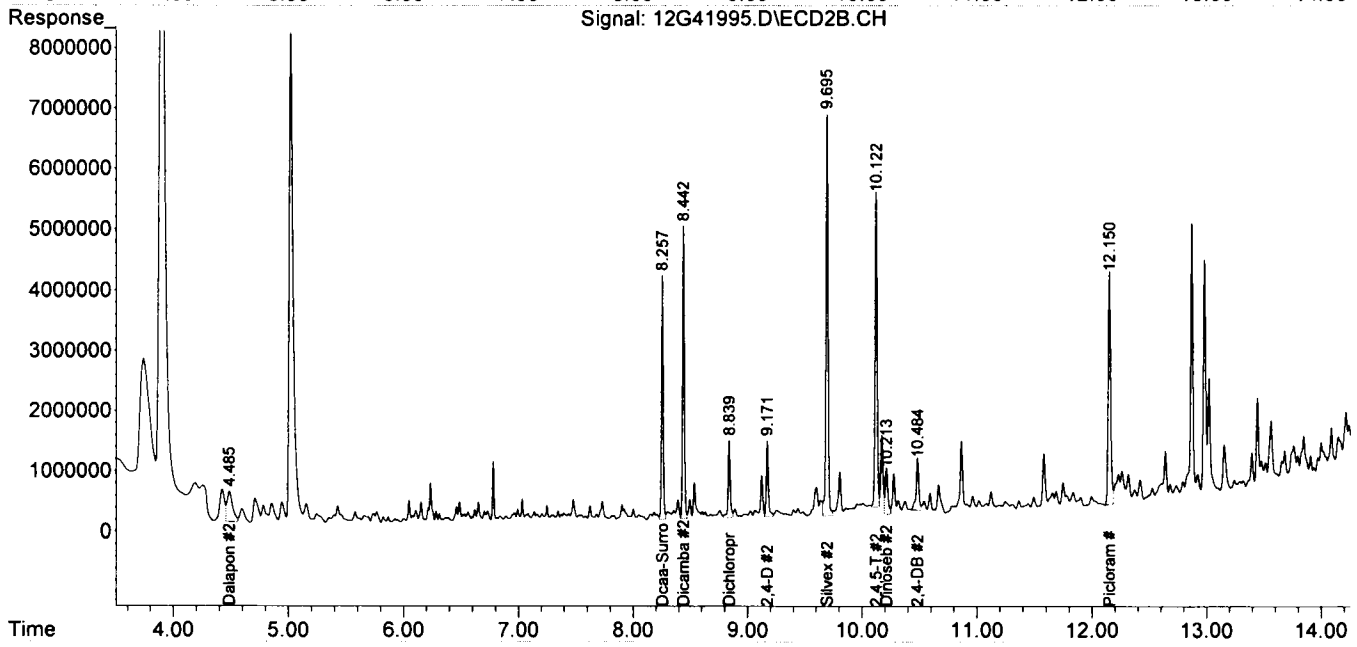
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-27-23\
Data File : 12G41995.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27-Jun-23, 14:11:35
Operator : PR/KM/AH
Sample : AD38586-008(MS:AD38586-001)(2X)
Misc : S,HERB:2
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 14:41:38 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





GC Herbicide Data
Standards Data

3061429 0899

Form 6

Initial Calibration

Method: EPA 8151A

Instrument: GC_12

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	12G41150.D	CAL HERB@50PPB	05/22/23 09:11	2	12G41151.D	CAL HERB@100PPB	05/22/23 09:31
3	12G41152.D	CAL HERB@200PPB	05/22/23 09:51	4	12G41153.D	CAL HERB@400PPB	05/22/23 10:11
5	12G41154.D	CAL HERB@500PPB	05/22/23 10:31	6	12G41155.D	CAL HERB@600PPB	05/22/23 10:51

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Dalapon	1	0	Avg	77.904	70.910	70.726	67.968	69.170	69.185	----	----	71.0	4.50	1.00	1.00	5.0	45.52	91.05	182.1	364.1	455.2	546.2		
Dcaa-Surrogate	1	0	Avg	50.050	47.680	51.513	56.937	59.516	60.632	----	----	54.4	8.09	0.998	1.00	9.9	233.9	467.9	935.8	1871.	2339.	2807.		
Dicamba	1	0	Avg	197.95	186.04	192.95	201.13	213.35	217.76	----	----	202	8.23	0.998	1.00	6.0	47.01	94.02	188.0	376.0	470.1	564.1		
Dichloroprop	1	0	Avg	54.539	49.599	49.350	48.068	49.280	49.404	----	----	50.0	8.79	1.00	1.00	4.5	47.18	94.36	188.7	377.4	471.7	566.1		
2,4-D	1	0	Avg	57.327	54.720	54.765	53.996	55.482	56.183	----	----	55.4	9.08	0.999	1.00	2.2	47.01	94.02	188.0	376.0	470.1	564.1		
Silvex	1	0	Avg	271.12	264.16	279.57	292.32	310.82	315.81	----	----	289	9.65	0.998	1.00	7.3	47.52	95.04	190.0	380.1	475.2	570.2		
2,4,5-T	1	0	Avg	233.99	234.63	246.24	259.27	279.87	283.75	----	----	256	10.03	0.997	0.999	8.5	47.39	94.79	189.5	379.1	473.9	568.7		
2,4-DB	1	0	Avg	31.426	30.439	31.150	30.794	31.842	32.189	----	----	31.3	10.44	0.999	1.00	2.1	47.33	94.66	189.3	378.6	473.2	567.9		
Dinoseb	1	0	Avg	161.10	161.54	171.69	177.10	186.56	190.49	----	----	175	10.94	0.998	1.00	7.1	47.24	94.47	188.9	377.8	472.3	566.8		
Picloram	1	0	Qua	167.41	229.43	270.95	306.17	337.79	348.56	----	----	277	11.93	0.996	0.999	25	47.25	94.50	189.0	378.0	472.5	567.0		
Dalapon	2	0	Avg	22.135	19.962	19.667	18.340	18.384	18.195	----	----	19.4	4.49	1.00	1.00	7.8	45.52	91.05	182.1	364.1	455.2	546.2		
Dcaa-Surrogate	2	0	Avg	13.859	12.931	13.071	12.945	13.339	13.508	----	----	13.3	8.26	0.999	1.00	2.8	233.9	467.9	935.8	1871.	2339.	2807.		
Dicamba	2	0	Avg	56.966	52.032	51.224	48.903	49.719	49.619	----	----	51.4	8.44	1.00	1.00	5.7	47.01	94.02	188.0	376.0	470.1	564.1		
Dichloroprop	2	0	Avg	14.103	13.370	12.859	11.928	11.998	11.891	----	----	12.7	8.84	1.00	1.00	7.2	47.18	94.36	188.7	377.4	471.7	566.1		
2,4-D	2	0	Avg	18.112	17.184	16.434	15.304	15.371	15.254	----	----	16.3	9.17	1.00	1.00	7.3	47.01	94.02	188.0	376.0	470.1	564.1		
Silvex	2	0	Avg	80.315	75.999	74.263	70.808	71.721	71.667	----	----	74.1	9.70	1.00	1.00	4.9	47.52	95.04	190.0	380.1	475.2	570.2		
2,4,5-T	2	0	Avg	70.407	68.885	68.063	65.232	66.131	66.248	----	----	67.5	10.12	1.00	1.00	2.9	47.39	94.79	189.5	379.1	473.9	568.7		
2,4-DB	2	0	Avg	9.7970	9.8432	9.5399	8.9272	8.9084	8.8575	----	----	9.31	10.48	1.00	1.00	5.0	47.33	94.66	189.3	378.6	473.2	567.9		
Dinoseb	2	0	Avg	54.875	52.288	51.216	48.183	48.402	48.415	----	----	50.6	10.21	1.00	1.00	5.4	47.24	94.47	188.9	377.8	472.3	566.8		
Picloram	2	0	Avg	54.562	70.369	75.222	75.459	77.846	78.493	----	----	72.0	12.15	1.00	1.00	13	47.25	94.50	189.0	378.0	472.5	567.0		

Avg Rsd Col 1: 7.76 Avg Rsd Col 2: 6.14

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Data Path : G:\Gcdata\2023\GC_12\Data\05-22-23\
Data File : 12G41150.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-May-23, 09:11:59
Operator : PR/KM/AH
Sample : CAL HERB@50PPB
Misc : A,HERB
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 11:19:43 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Mon May 22 11:12:08 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
1)Dalapon	4.500	4.482	35462232	10075915	49.963	51.811
2)Dcaa-Surrogate	8.093	8.255	117.1E6	32425024	215.301	244.242
3)Dicamba	8.235	8.440	93057825	26780118	46.174	52.090
4)Dichloroprop	8.791	8.837	25731767	6653991	51.428m	51.959m
5)2,4-D	9.081	9.170	26949705	8514624	48.635	52.311
6)Silvex	9.654	9.693	128.8E6	38165827	44.586	51.486
7)2,4,5-T	10.035	10.121	110.9E6	33366224	43.267	49.435
8)2,4-DB	10.443	10.483	14874353	4636926	47.511	49.499m
9)Dinoseb	10.937	10.210	76107876	25923286	43.552	51.250
10)Picloram	11.932	12.147	79104936	25780738	28.603m	35.810 #

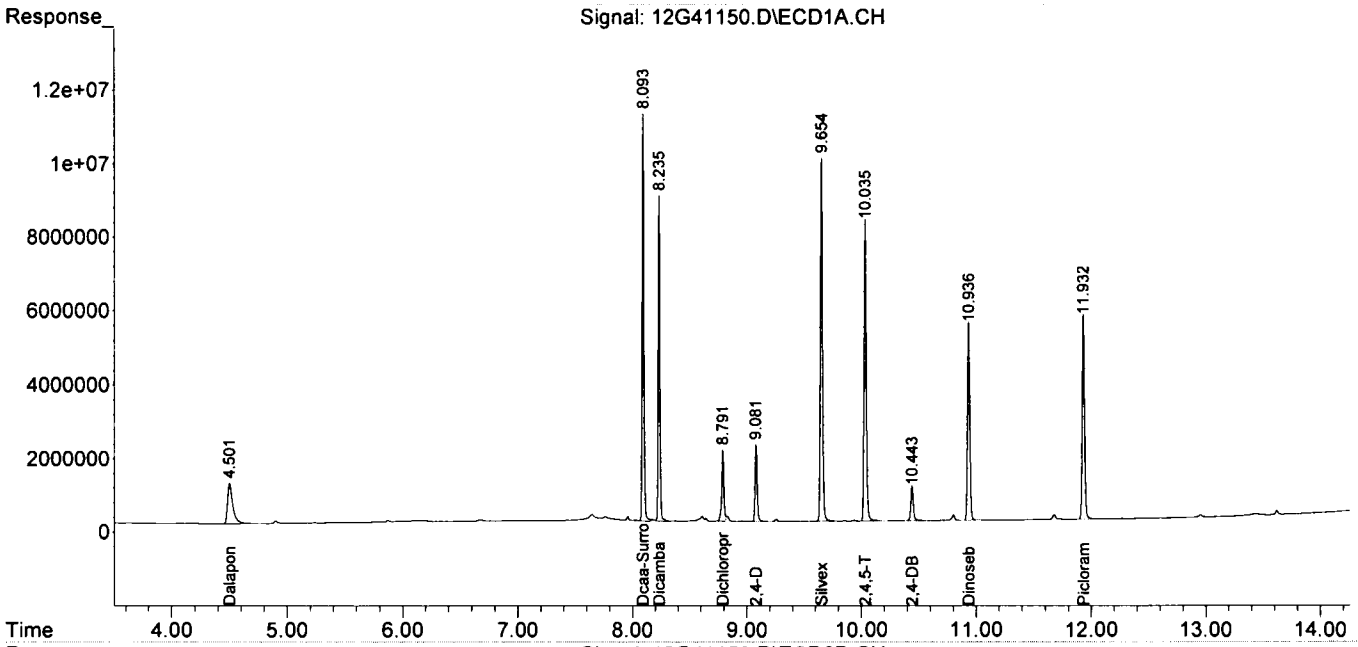
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

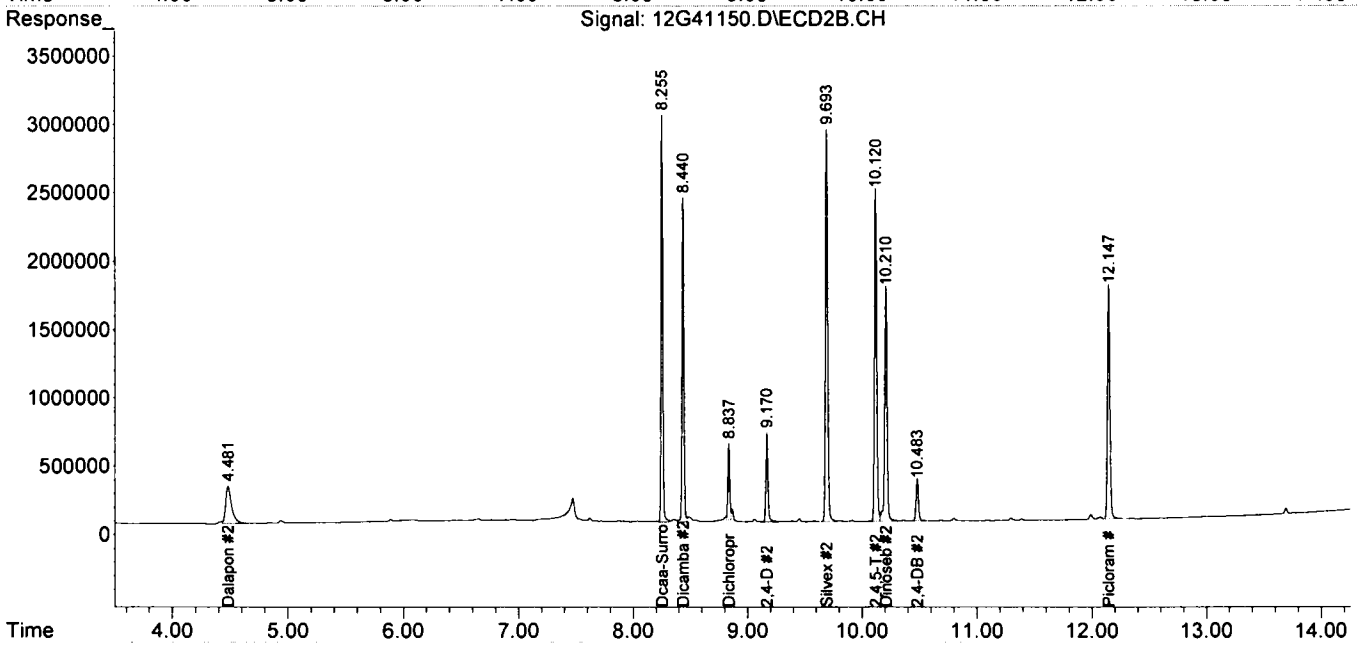
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\05-22-23\
Data File : 12G41150.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-May-23, 09:11:59
Operator : PR/KM/AH
Sample : CAL HERB@50PPB
Misc : A,HERB
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 11:19:43 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Mon May 22 11:12:08 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2023\GC_12\Data\05-22-23\
Data File : 12G41151.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-May-23, 09:31:50
Operator : PR/KM/AH
Sample : CAL HERB@100PPB
Misc : A,HERB
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 11:19:05 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Mon May 22 11:12:08 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
	Target Compounds						
1)	Dalapon	4.500	4.487	64563872	18175827	90.964	93.460
2)	Dcaa-Surrogate	8.092	8.257	223.1E6	60507293	410.207	455.771
3)	Dicamba	8.235	8.442	174.9E6	48921265	86.795	95.157
4)	Dichloroprop	8.789	8.838	46801616	12616833	93.539	98.520m
5)	2,4-D	9.080	9.172	51448277	16156898	92.846	99.263
6)	Silvex	9.653	9.695	251.1E6	72229485	86.881	97.437
7)	2,4,5-T	10.034	10.123	222.4E6	65296328	86.780	96.743
8)	2,4-DB	10.443	10.485	28813760	9317654	92.036	99.465
9)	Dinoseb	10.935	10.212	152.6E6	49396940	87.331	97.658
10)	Picloram	11.932	12.149	216.8E6	66498895	78.398	92.369

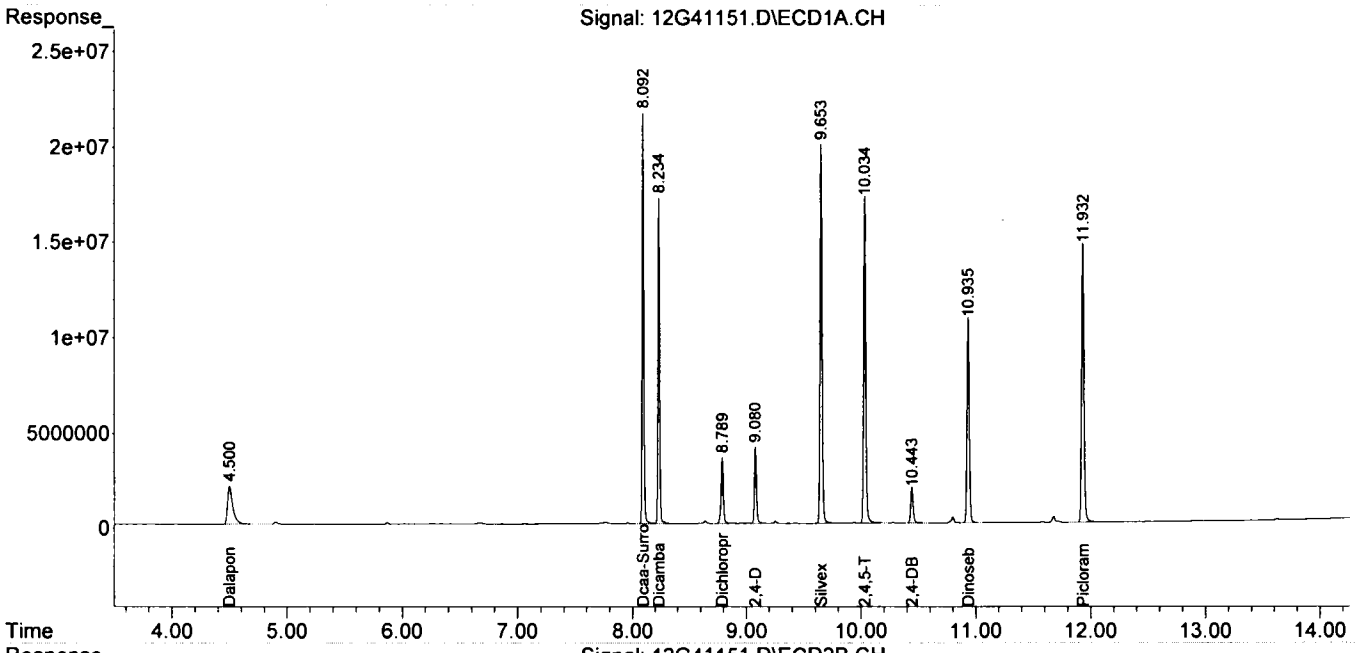
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

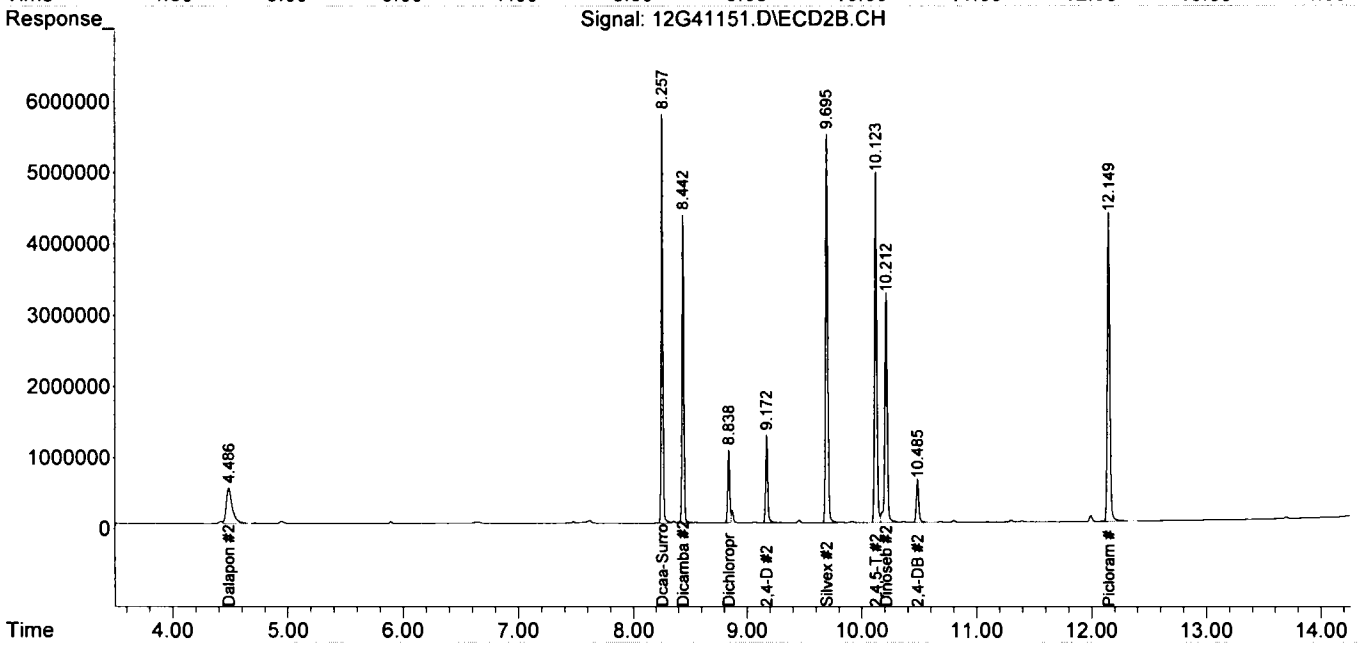
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\05-22-23\
Data File : 12G41151.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-May-23, 09:31:50
Operator : PR/KM/AH
Sample : CAL HERB@100PPB
Misc : A,HERB
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 11:19:05 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Mon May 22 11:12:08 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\05-22-23\
Data File : 12G41152.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-May-23, 09:51:43
Operator : PR/KM/AH
Sample : CAL HERB@200PPB
Misc : A,HERB
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 11:21:01 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Mon May 22 11:12:08 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
1)Dalapon	4.499	4.486	128.8E6	35814876	181.455	184.161
2)Dcaa-Surrogate	8.093	8.257	482.1E6	122.3E6	886.363	921.449
3)Dicamba	8.234	8.443	362.8E6	96322163	180.035	187.357
4)Dichloroprop	8.789	8.839	93134864	24268034	186.143	189.500
5)2,4-D	9.079	9.172	103.0E6	30903031	185.845	189.859
6)Silvex	9.653	9.696	531.5E6	141.2E6	183.912	190.434
7)2,4,5-T	10.033	10.123	466.8E6	129.0E6	182.136	191.166
8)2,4-DB	10.441	10.484	58973683	18061039	188.372	192.800
9)Dinoseb	10.935	10.212	324.4E6	96767995	185.630	191.311
10)Picloram	11.931	12.149	512.1E6	142.2E6	185.171m	197.480

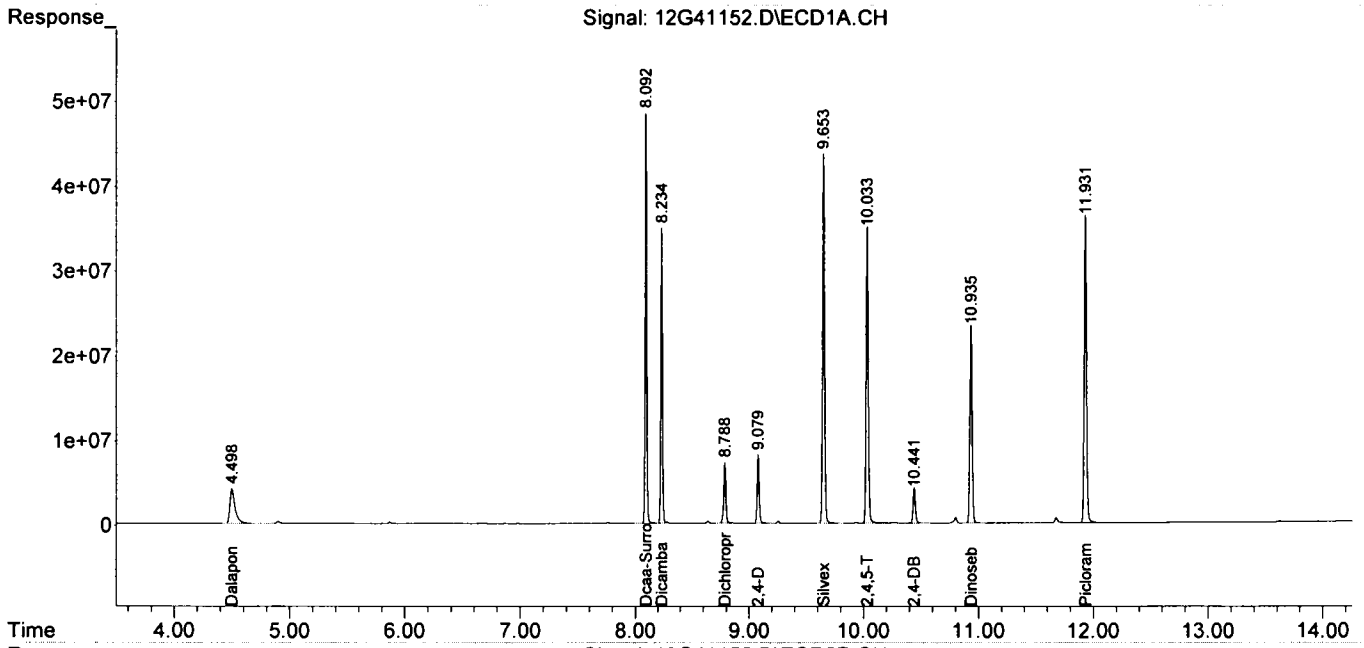
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

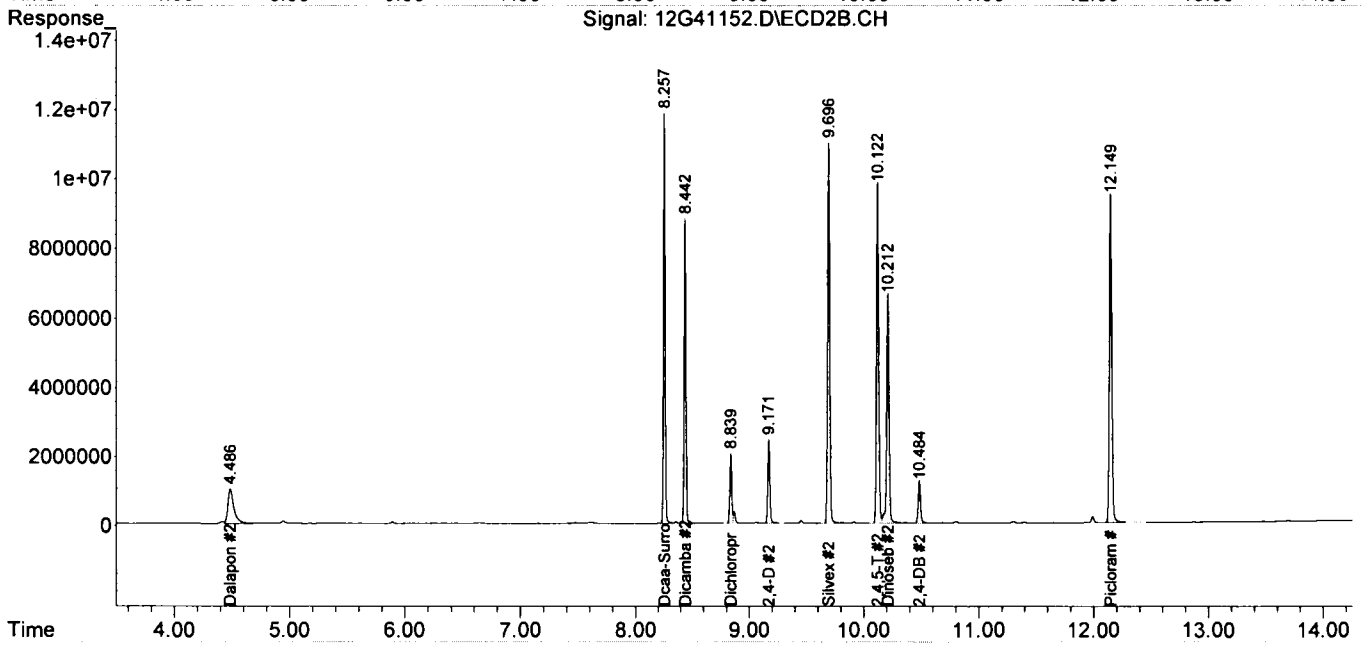
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\05-22-23\
Data File : 12G41152.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-May-23, 09:51:43
Operator : PR/KM/AH
Sample : CAL HERB@200PPB
Misc : A,HERB
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 11:21:01 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Mon May 22 11:12:08 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\05-22-23\
Data File : 12G41153.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-May-23, 10:11:35
Operator : PR/KM/AH
Sample : CAL HERB@400PPB
Misc : A,HERB
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 11:12:59 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Mon May 22 11:12:08 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
	Target Compounds						
1)	Dalapon	4.500	4.487	247.5E6	66795706	348.748	343.465
2)	Dcaa-Surrogate	8.094	8.258	1065.7E6	242.3E6	1959.409	1825.070
3)	Dicamba	8.236	8.443	756.4E6	183.9E6	375.333	357.740
4)	Dichloroprop	8.789	8.839	181.4E6	45020271	362.602	351.547
5)	2,4-D	9.079	9.171	203.1E6	57557395	366.467	353.615
6)	Silvex	9.654	9.696	1111.3E6	269.2E6	384.579	363.140
7)	2,4,5-T	10.034	10.123	983.0E6	247.3E6	383.542	366.433
8)	2,4-DB	10.441	10.485	116.6E6	33801392	372.427	360.827
9)	Dinoseb	10.936	10.213	669.3E6	182.1E6	382.980	359.977
10)	Picloram	11.933	12.150	1157.4E6	285.2E6	418.483	396.204

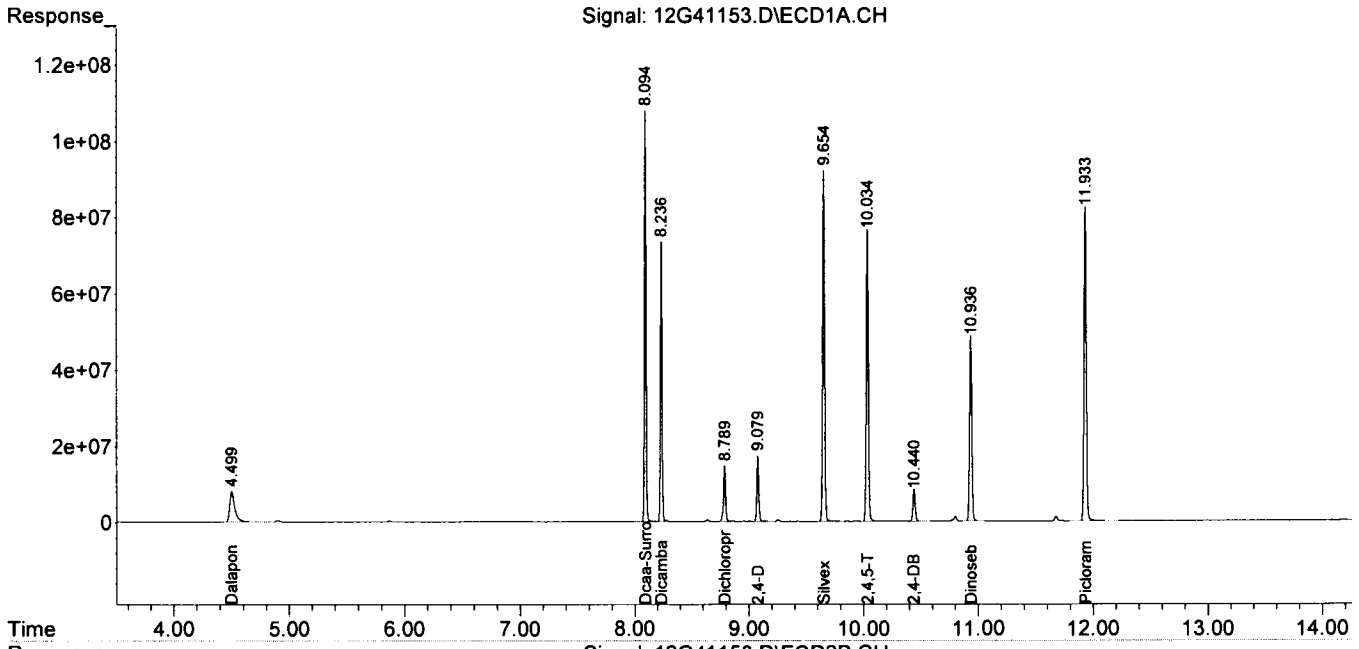
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

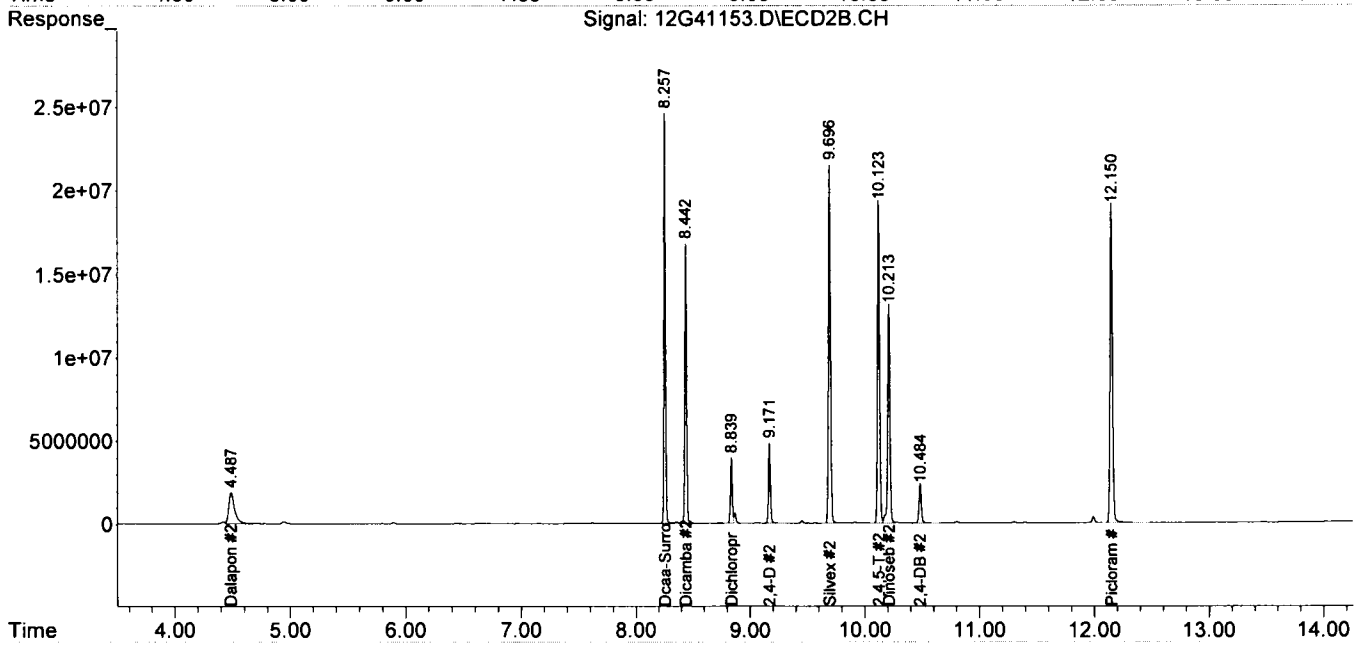
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\05-22-23\
Data File : 12G41153.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-May-23, 10:11:35
Operator : PR/KM/AH
Sample : CAL HERB@400PPB
Misc : A,HERB
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 11:12:59 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Mon May 22 11:12:08 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\05-22-23\
Data File : 12G41154.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-May-23, 10:31:27
Operator : PR/KM/AH
Sample : CAL HERB@500PPB
Misc : A,HERB
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 11:22:29 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Mon May 22 11:12:08 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
1)Dalapon	4.500	4.487	314.9E6	83693336	443.652	430.353
2)Dcaa-Surrogate	8.094	8.257	1392.5E6	312.1E6	2560.210	2350.860
3)Dicamba	8.236	8.443	1003.0E6	233.7E6	497.669	454.633
4)Dichloroprop	8.789	8.839	232.5E6	56605808	464.686	442.015
5)2,4-D	9.079	9.171	260.8E6	72259058	470.690	443.938
6)Silvex	9.655	9.696	1477.1E6	340.8E6	511.143	459.776
7)2,4,5-T	10.035	10.123	1326.4E6	313.4E6	517.529	464.358
8)2,4-DB	10.441	10.484	150.7E6	42162879	481.388	450.085
9)Dinoseb	10.936	10.212	881.3E6	228.6E6	504.287	452.007m
10)Picloram	11.934	12.150	1596.1E6	367.8E6	577.123	510.924

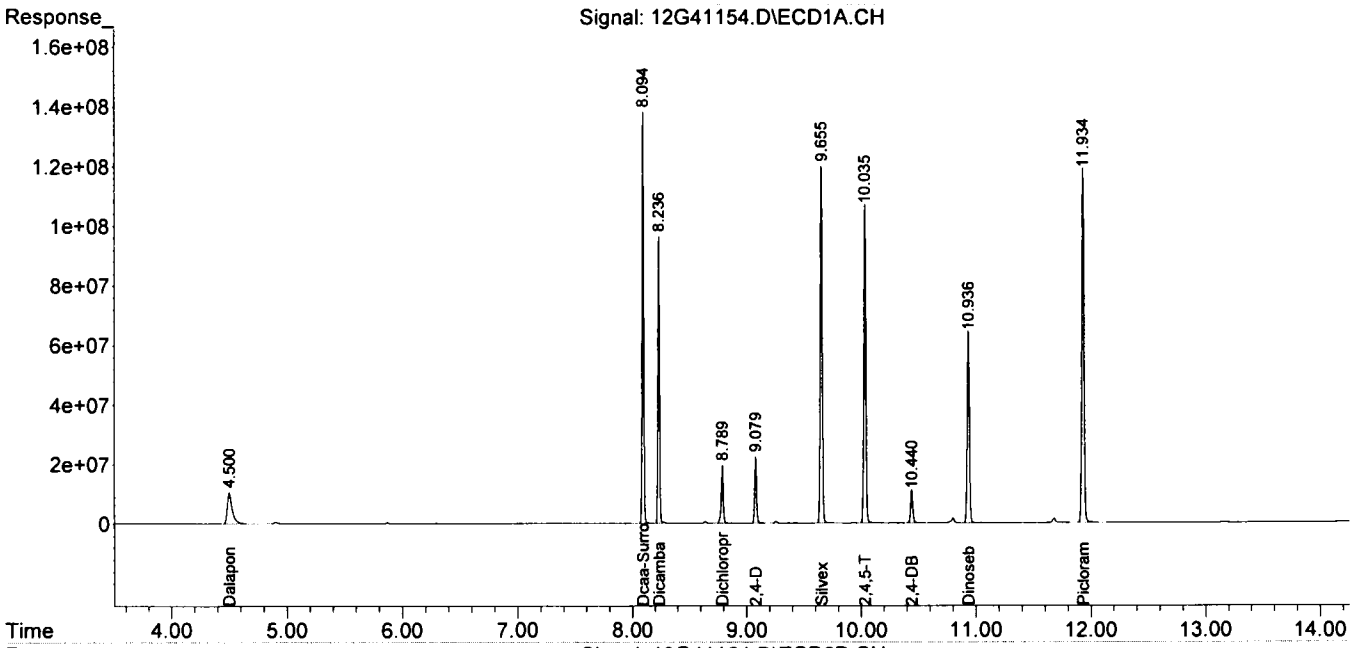
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

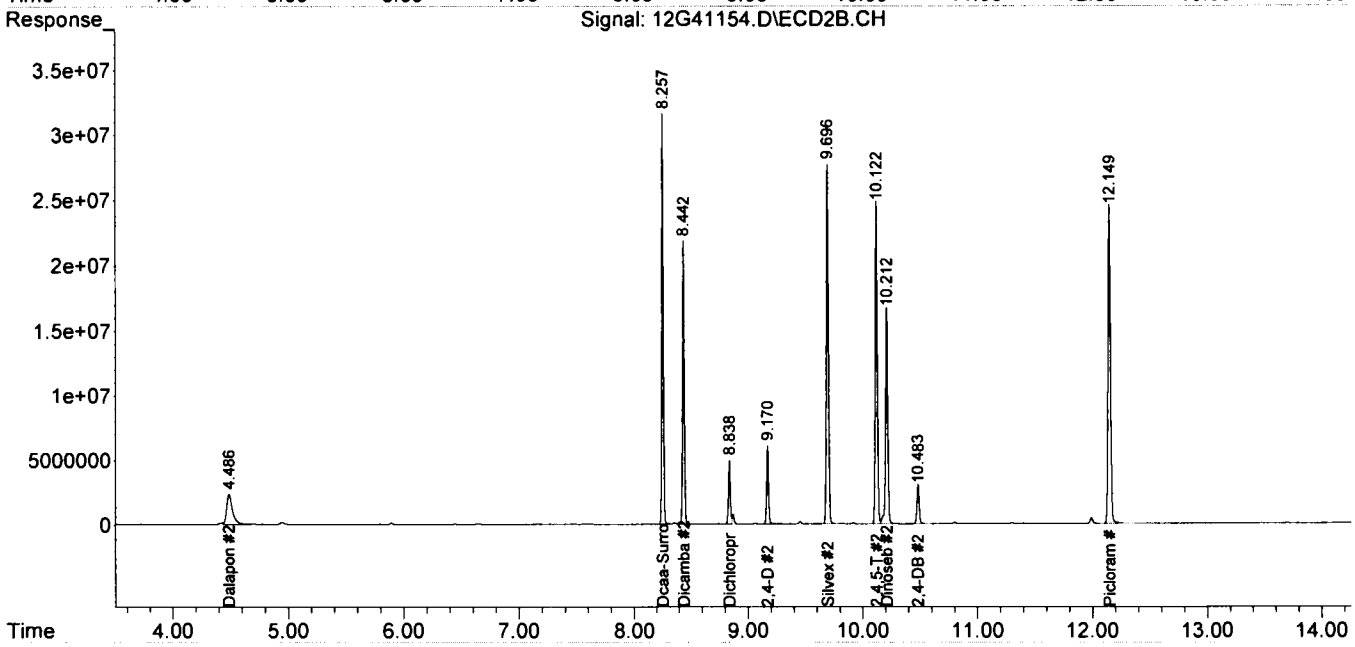
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\05-22-23\
Data File : 12G41154.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-May-23, 10:31:27
Operator : PR/KM/AH
Sample : CAL HERB@500PPB
Misc : A,HERB
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 11:22:29 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Mon May 22 11:12:08 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\05-22-23\
Data File : 12G41155.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-May-23, 10:51:18
Operator : PR/KM/AH
Sample : CAL HERB@600PPB
Misc : A,HERB
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 11:13:48 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Mon May 22 11:12:08 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
1)Dalapon	4.500	4.487	378.0E6	99397589	532.495	511.104
2)Dcaa-Surrogate	8.094	8.258	1702.3E6	379.2E6	3129.854	2856.647
3)Dicamba	8.236	8.443	1228.5E6	279.9E6	609.567	544.466
4)Dichloroprop	8.789	8.839	279.7E6	67322721	559.021	525.699
5)2,4-D	9.078	9.171	316.9E6	86053898	571.976	528.689
6)Silvex	9.655	9.696	1801.0E6	408.7E6	623.229	551.323
7)2,4,5-T	10.034	10.122	1613.7E6	376.8E6	629.630	558.210
8)2,4-DB	10.440	10.484	182.8E6	50306554	583.953	537.018
9)Dinoseb	10.935	10.213	1079.8E6	274.4E6	617.901	542.561
10)Picloram	11.932	12.149	1976.4E6	445.1E6	714.624	618.204

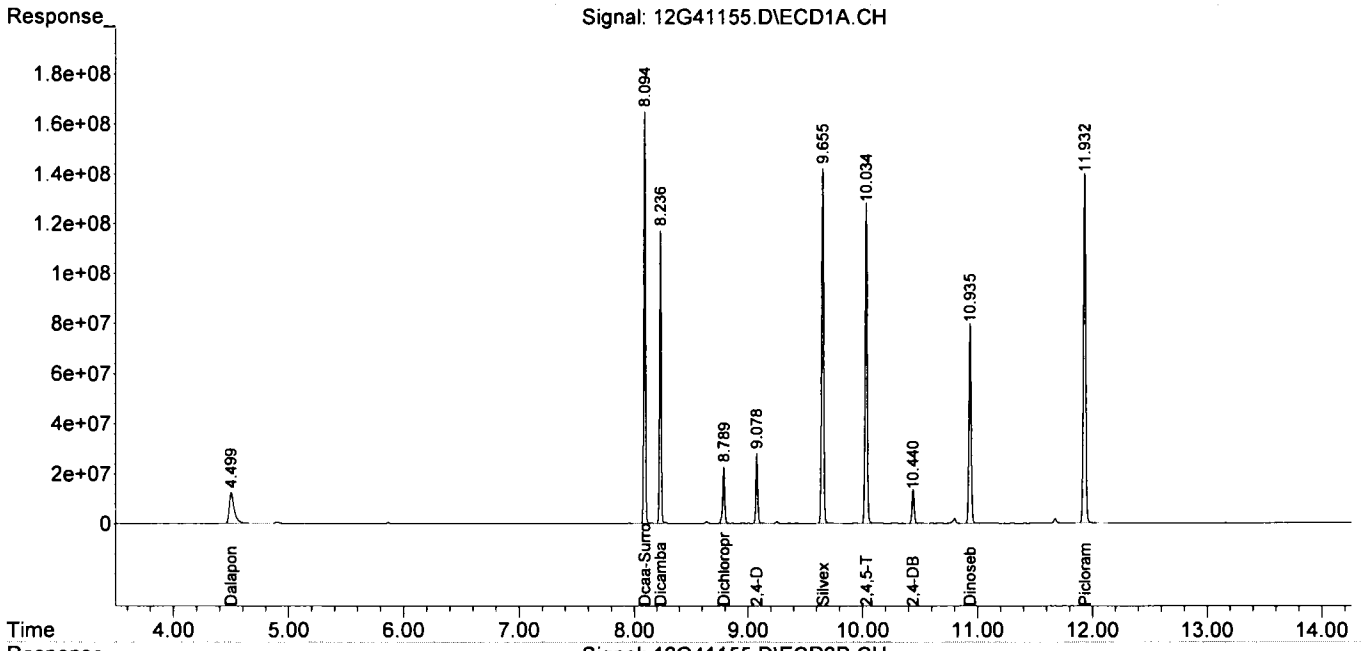
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

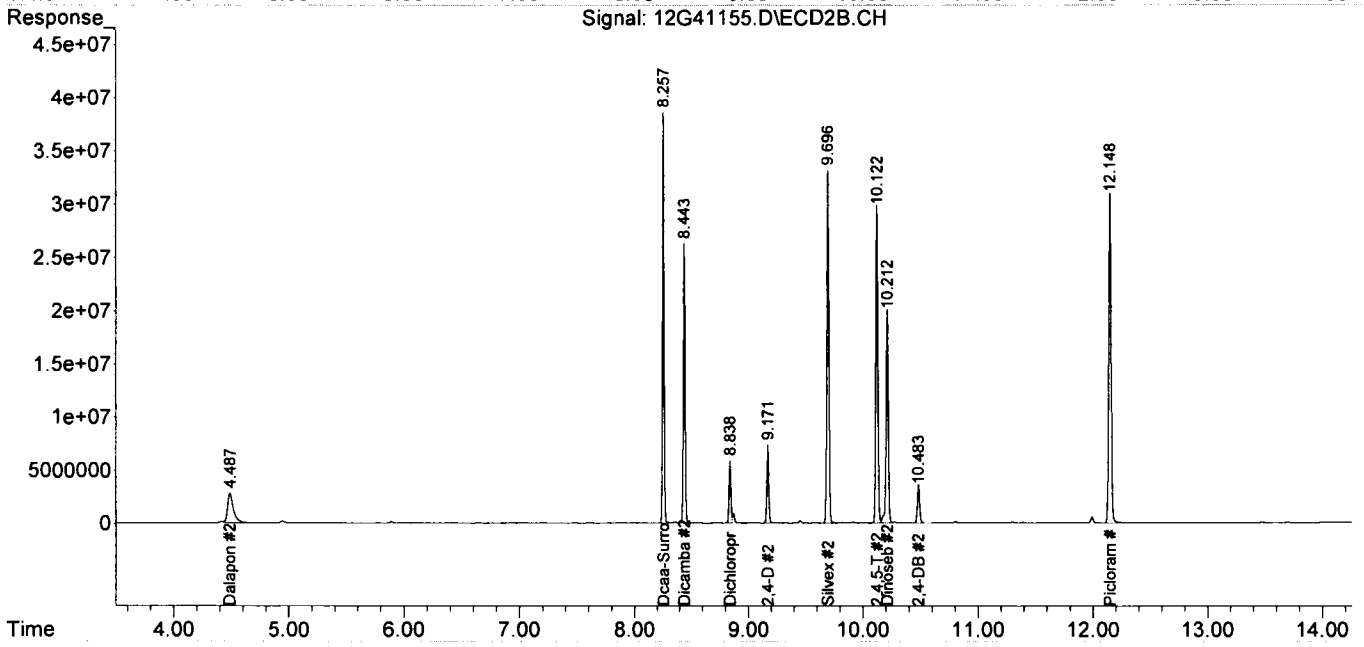
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\05-22-23\
Data File : 12G41155.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-May-23, 10:51:18
Operator : PR/KM/AH
Sample : CAL HERB@600PPB
Misc : A,HERB
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 11:13:48 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Mon May 22 11:12:08 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





TxtDfile: 12G41156.D ICV FORM Date/Time: 05/22/23 11:16

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
Dalapon	1	0		185.48	182.1	102		70	130
Dalapon	2	0		187.4	182.1	103		70	130
Dcaa-Surrogate	2	0		933.29	935.84	100		70	130
Dcaa-Surrogate	1	0		894.93	935.84	96		70	130
Dicamba	2	0		190.82	188.04	101		70	130
Dicamba	1	0		184.34	188.04	98		70	130
Dichloroprop	2	0		191.58	188.72	102		70	130
Dichloroprop	1	0		186.61	188.72	99		70	130
2.4-D	1	0		182.67	188.04	97		70	130
2.4-D	2	0		186.91	188.04	99		70	130
Silvex	1	0		182.07	190.09	96		70	130
Silvex	2	0		188.56	190.09	99		70	130
2.4.5-T	2	0		185.95	189.57	98		70	130
2.4.5-T	1	0		176.83	189.57	93		70	130
2.4-DB	2	0		189.05	189.32	100		70	130
2.4-DB	1	0		181.03	189.32	96		70	130
Dinoseb	2	0		190.74	188.94	101		70	130
Dinoseb	1	0		185.34	188.94	98		70	130
Picloram	1	0		189.27	189	100		70	130
Picloram	2	0		195.68	189	104		70	130

Form7
Continuing Calibration

Method: EPA 8151A

				12G41989.D			12G42003.D			12G42005.D			12G42024.D					
Data File:				8151			8151			8151			8151					
Method:				CAL HERB@200P			CAL HERB@200P			CAL HERB@200P			CAL HERB@200P					
Calibration Name:				06/27/23 07:16			06/27/23 16:52			06/28/23 01:20			06/28/23 07:39					
Calibration Date/Time					Conc			Conc			Conc			Conc			Conc	
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
Dalapon	15	1	0	169.7	182	6.8	179.8	182	1.3	178.1	182	2.2	165.6	182	9.0			
Dcaa-Surrogate	15	1	0	886.2	936	5.3	875.2	936	6.5	953.7	936	1.9	804.7	936	14.0			
Dicamba	15	1	0	182.6	188	2.9	189.8	188	0.9	213.5	188	13.5	172.8	188	8.1			
Dichloroprop	15	1	0	187.2	189	0.8	182.1	189	3.5	205	189	8.6	168.5	189	10.7			
2,4-D	15	1	0	182.4	188	3.0	177.0	188	5.8	207.1	188	10.1	170.8	188	9.2			
Silvex	15	1	0	194.5	190	2.3	187.2	190	1.5	209.3	190	10.1	167.1	190	12.1			
2,4,5-T	15	1	0	187.5	190	1.1	183	190	3.5	212.3	190	12.0	167.7	190	11.5			
2,4-DB	15	1	0	190.2	189	0.5	184.4	189	2.6	217.8	189	15.1	179.1	189	5.4			
Dinoseb	15	1	0	184.8	189	2.2	169.1	189	10.5	195.2	189	3.3	175.9	189	6.9			
Picloram	15	1	0	55.68	189	70.5*	81.92	189	56.7*	142.9	189	24.4*	67.94	189	64.1*			
Average Difference	15	1	0			9.5			9.3			10.1			15.1			
Dalapon	15	2	0	177.5	182	2.5	189.0	182	3.8	188.2	182	3.4	176.5	182	3.1			
Dcaa-Surrogate	15	2	0	1009	936	7.8	959.9	936	2.6	1033	936	10.4	946.2	936	1.1			
Dicamba	15	2	0	198.9	188	5.8	198.8	188	5.7	213.2	188	13.4	195.9	188	4.2			
Dichloroprop	15	2	0	187.8	189	0.5	172.3	189	8.7	215.8	189	14.3	184.9	189	2.0			
2,4-D	15	2	0	192.5	188	2.4	193.2	188	2.7	175.8	188	6.5	205.6	188	9.3			
Silvex	15	2	0	204	190	7.3	200.3	190	5.4	211.4	190	11.2	201.7	190	6.1			
2,4,5-T	15	2	0	182	190	4.0	179.3	190	5.4	209.2	190	10.4	173.4	190	8.5			
2,4-DB	15	2	0	186.1	189	1.7	201.1	189	6.2	196.2	189	3.6	172.1	189	9.1			
Dinoseb	15	2	0	192.1	189	1.7	186.5	189	1.3	210.5	189	11.4	196.6	189	4.0			
Picloram	15	2	0	56.36	189	70.2*	74.24	189	60.7*	148.3	189	21.5*	73.89	189	60.9*			
Average Difference	15	2	0			10.4			10.3			10.6			10.8			

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8151A

Data File:			12G41150.D		12G41989.D		12G42005.D				
Calibration Name:			CAL HERB@50PPB		CAL HERB@200PPB		CAL HERB@200PPB				
Calibration Date/Time			5/22/2023 9:11:59 AM		6/27/2023 7:16:48 AM		6/28/2023 1:20:48 AM				
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
Dalapon	1	0	4.50	(4.46 - 4.54)	4.48	(4.44 - 4.52)	4.48	(4.44 - 4.52)				
Dcaa-Surrogate	1	0										
Dicamba	1	0	8.24	(8.20 - 8.28)	8.20	(8.16 - 8.24)	8.20	(8.16 - 8.24)				
Dichloroprop	1	0	8.79	(8.75 - 8.83)	8.75	(8.71 - 8.79)	8.75	(8.71 - 8.79)				
2,4-D	1	0	9.08	(9.04 - 9.12)	9.04	(9.00 - 9.08)	9.05	(9.01 - 9.09)				
Silvex	1	0	9.65	(9.61 - 9.69)	9.60	(9.56 - 9.64)	9.61	(9.57 - 9.65)				
2,4,5-T	1	0	10.03	(9.99 - 10.07)	9.99	(9.95 - 10.03)	10.00	(9.96 - 10.04)				
2,4-DB	1	0	10.44	(10.40 - 10.48)	10.39	(10.35 - 10.43)	10.40	(10.36 - 10.44)				
Dinoseb	1	0	10.94	(10.90 - 10.98)	10.88	(10.84 - 10.92)	10.88	(10.84 - 10.92)				
Picloram	1	0	11.93	(11.89 - 11.97)	11.89	(11.85 - 11.93)	11.90	(11.86 - 11.94)				
Dalapon	2	0	4.49	(4.45 - 4.53)	4.48	(4.44 - 4.52)	4.49	(4.45 - 4.53)				
Dcaa-Surrogate	2	0										
Dicamba	2	0	8.44	(8.40 - 8.48)	8.44	(8.40 - 8.48)	8.44	(8.40 - 8.48)				
Dichloroprop	2	0	8.84	(8.80 - 8.88)	8.84	(8.80 - 8.88)	8.84	(8.80 - 8.88)				
2,4-D	2	0	9.17	(9.13 - 9.21)	9.17	(9.13 - 9.21)	9.18	(9.14 - 9.22)				
Silvex	2	0	9.70	(9.66 - 9.74)	9.70	(9.65 - 9.73)	9.70	(9.66 - 9.74)				
2,4,5-T	2	0	10.12	(10.08 - 10.16)	10.12	(10.08 - 10.16)	10.14	(10.10 - 10.18)				
2,4-DB	2	0	10.48	(10.44 - 10.52)	10.49	(10.45 - 10.53)	10.50	(10.46 - 10.54)				
Dinoseb	2	0	10.21	(10.17 - 10.25)	10.21	(10.17 - 10.25)	10.22	(10.18 - 10.26)				
Picloram	2	0	12.15	(12.11 - 12.19)	12.16	(12.12 - 12.20)	12.17	(12.13 - 12.21)				

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-27-23\
Data File : 12G41989.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27-Jun-23, 07:16:48 (#1); 27-Jun-23, 07:16:47 (#2)
Operator : PR/KM/AH
Sample : CAL HERB@200PPB
Misc : A,HERB
ALS Vial : 100 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 13:51:57 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
1)Dalapon	4.478	4.479	120.4E6	34517407	169.670	177.489
2)Dcaa-Surrogate	8.063	8.256	482.0E6	134.0E6	886.153	1009.050
3)Dicamba	8.200	8.440	368.0E6	102.3E6	182.581m	198.902m
4)Dichloroprop	8.750	8.838	93676611	23840186	187.202	187.838m
5)2,4-D	9.043	9.174	101.1E6	31339447	182.379	192.540
6)Silvex	9.605	9.695	562.1E6	151.2E6	194.531	203.975
7)2,4,5-T	9.991	10.124	480.6E6	122.8E6	187.532	181.971m
8)2,4-DB	10.393	10.489	59548252	17332700	190.207	186.128m
9)Dinoseb	10.878	10.213	323.0E6	97155501	184.843	192.145
10)Picloram	11.893	12.159	131.3E6	40572825	55.679	56.357

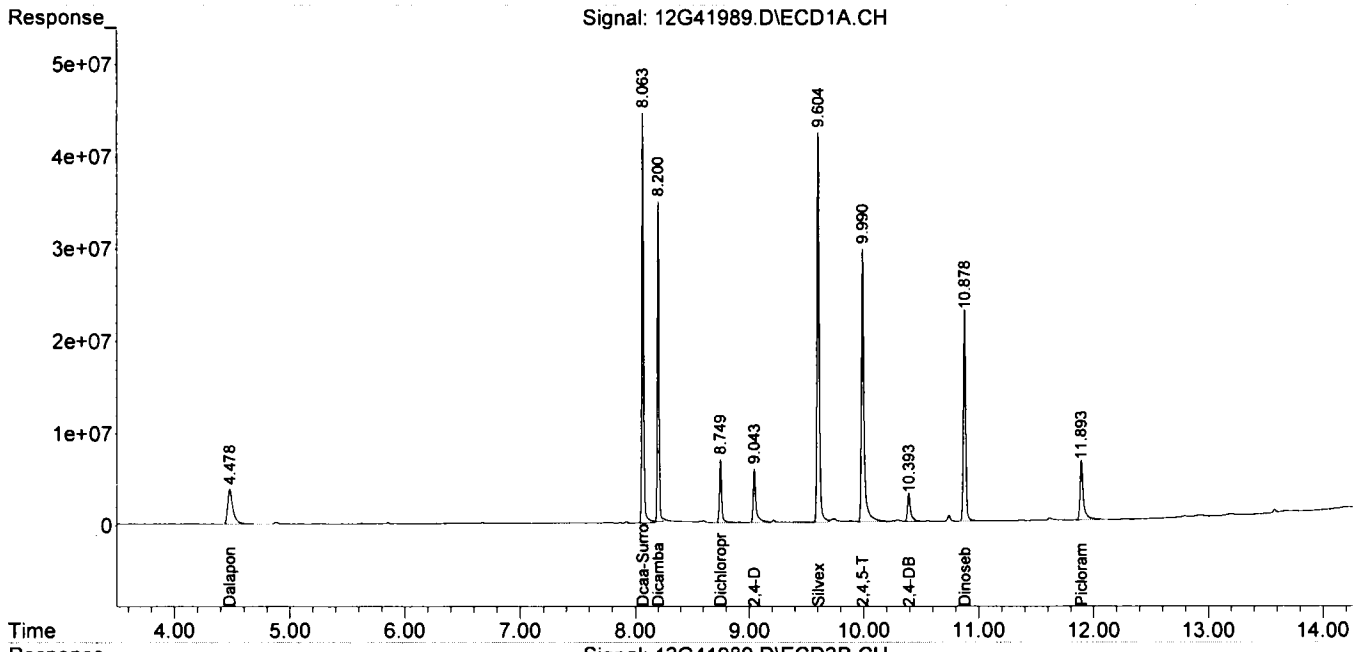
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

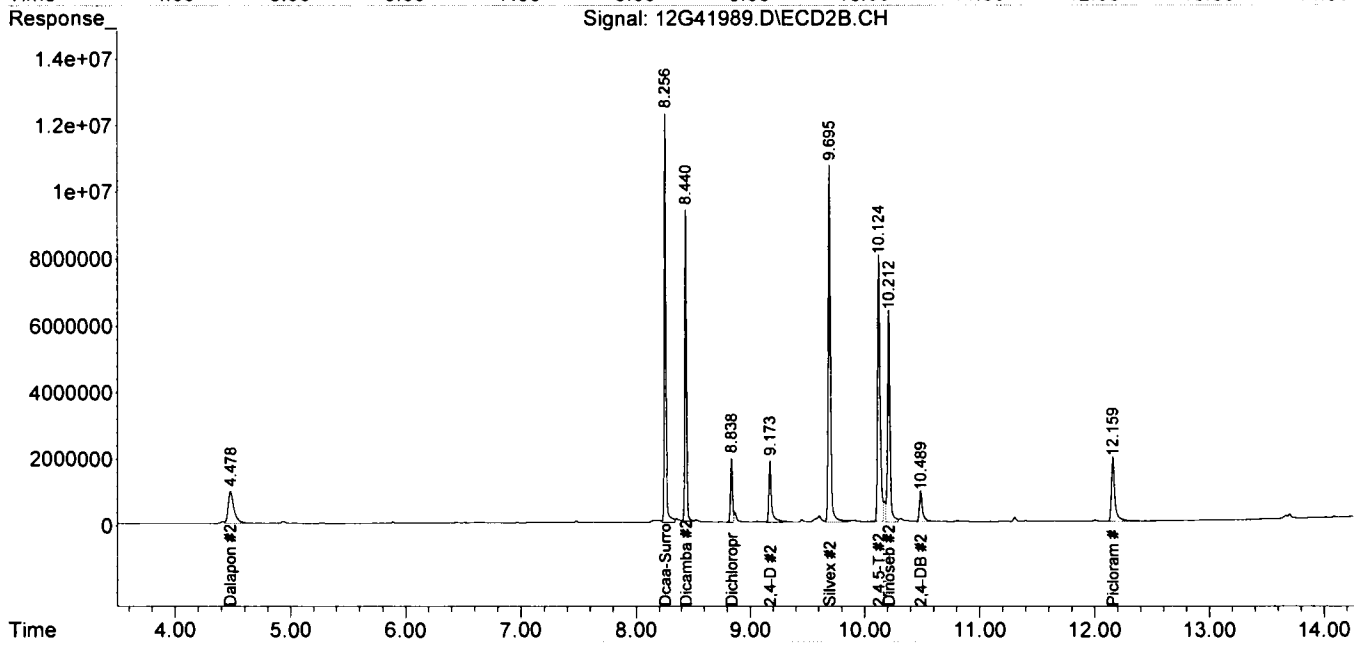
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-27-23\
Data File : 12G41989.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27-Jun-23, 07:16:48 (#1); 27-Jun-23, 07:16:47 (#2)
Operator : PR/KM/AH
Sample : CAL HERB@200PPB
Misc : A,HERB
ALS Vial : 100 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 13:51:57 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-27-23\
Data File : 12G42003.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27-Jun-23, 16:52:12
Operator : PR/KM/AH
Sample : CAL HERB@200PPB
Misc : A,HERB
ALS Vial : 100 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 17:07:13 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
1)Dalapon	4.476	4.485	127.6E6	36763400	179.818	189.038
2)Dcaa-Surrogate	8.060	8.257	476.0E6	127.4E6	875.239	959.924
3)Dicamba	8.198	8.442	382.5E6	102.2E6	189.799	198.788
4)Dichloroprop	8.747	8.840	91139284	21870643	182.131	172.320
5)2,4-D	9.041	9.176	98103231	31441948	177.042	193.170
6)Silvex	9.602	9.697	541.1E6	148.4E6	187.235	200.258
7)2,4,5-T	9.987	10.127	469.0E6	121.0E6	182.988	179.282
8)2,4-DB	10.390	10.491	57715164	18727825	184.352	201.109
9)Dinoseb	10.874	10.215	295.6E6	94290506	169.144	186.478
10)Picloram	11.887	12.158	198.1E6	53446127	81.920	74.239

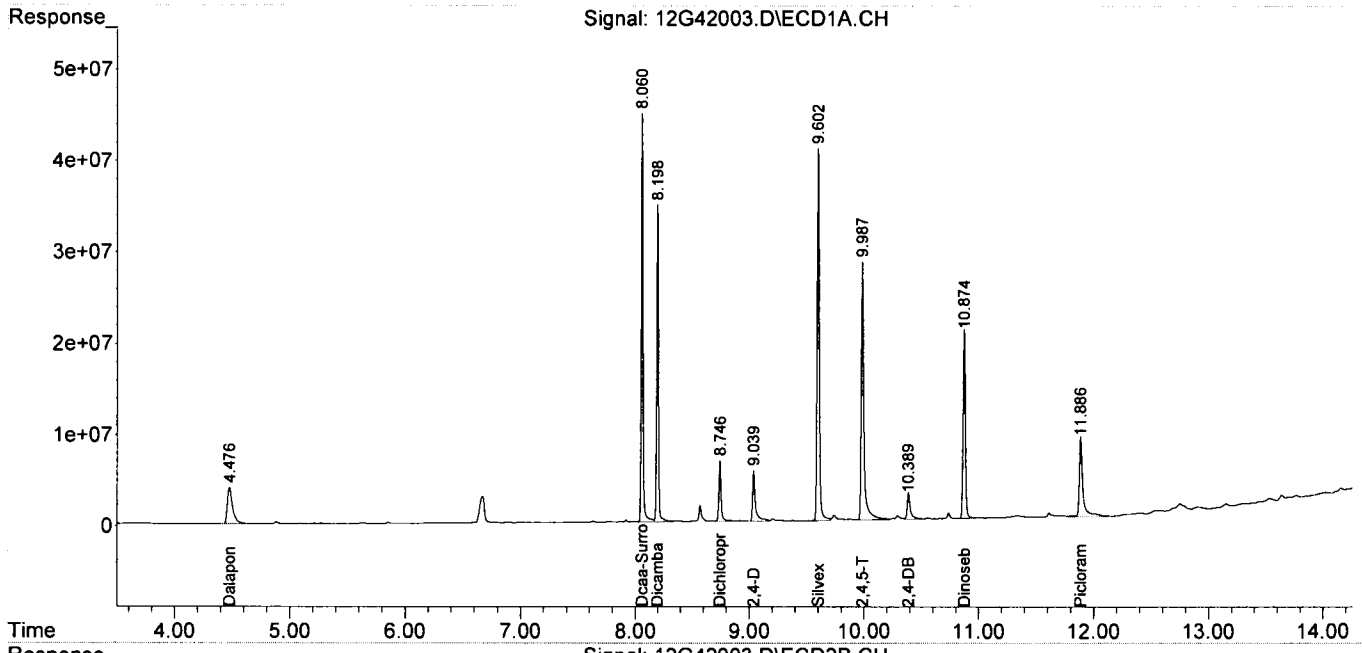
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

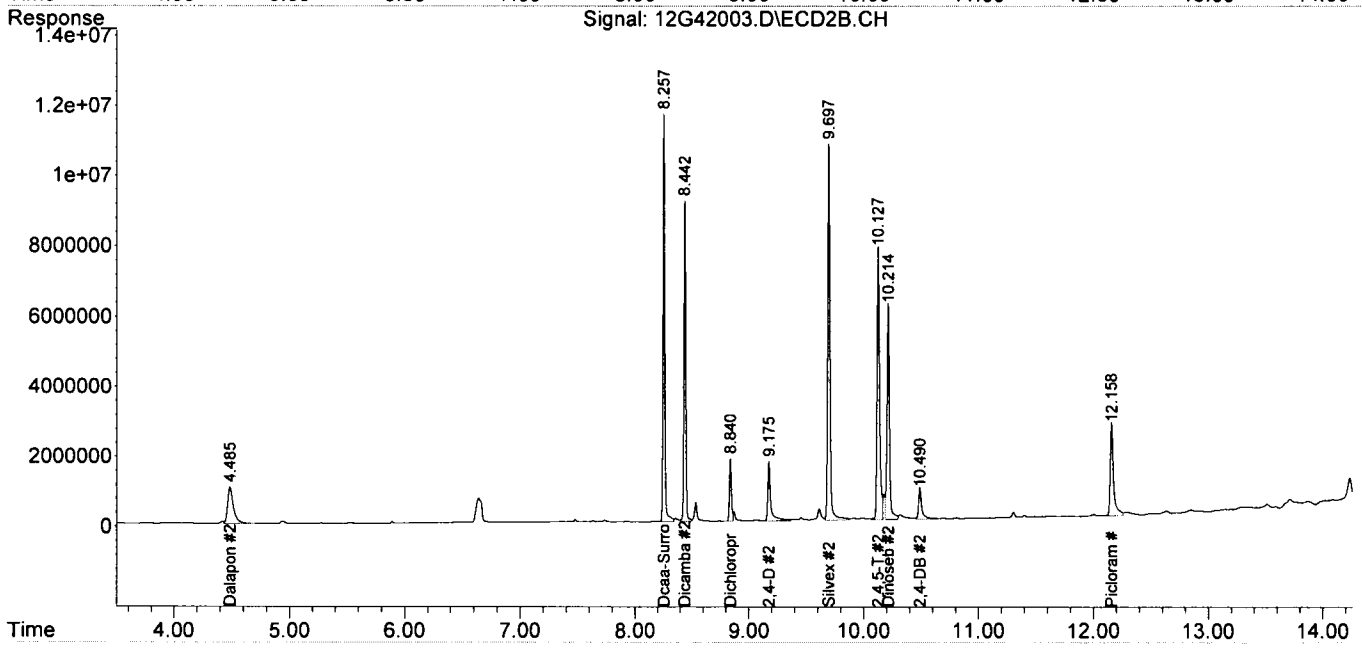
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-27-23\
Data File : 12G42003.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27-Jun-23, 16:52:12
Operator : PR/KM/AH
Sample : CAL HERB@200PPB
Misc : A,HERB
ALS Vial : 100 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 17:07:13 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-28-23\
Data File : 12G42005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28-Jun-23, 01:20:48
Operator : PR/KM/AH
Sample : CAL HERB@200PPB
Misc : S,HERB
ALS Vial : 100 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:00:00 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
1)Dalapon	4.476	4.485	126.4E6	36603987	178.145	188.218
2)Dcaa-Surrogate	8.062	8.258	518.7E6	137.1E6	953.717	1032.707m
3)Dicamba	8.199	8.442	430.3E6	109.6E6	213.510	213.219m
4)Dichloroprop	8.750	8.842	102.6E6	27384590	204.992	215.765m
5)2,4-D	9.049	9.181	114.7E6	28614462	207.063	175.799m
6)Silvex	9.606	9.700	604.8E6	156.7E6	209.299	211.391m
7)2,4,5-T	9.997	10.136	544.0E6	141.2E6	212.250	209.226
8)2,4-DB	10.403	10.502	68200311	18269851	217.843	196.191m
9)Dinoseb	10.878	10.217	341.1E6	106.4E6	195.194	210.505m
10)Picloram	11.900	12.170	365.3E6	106.8E6	142.888	148.310

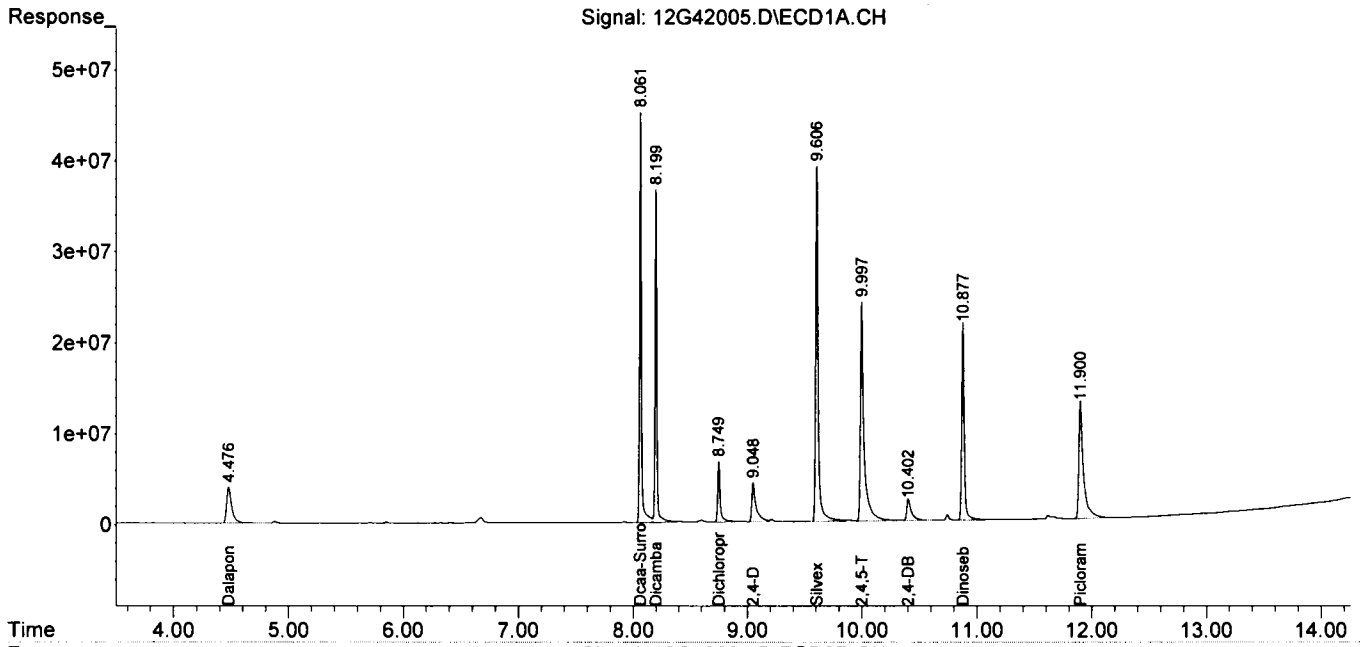
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

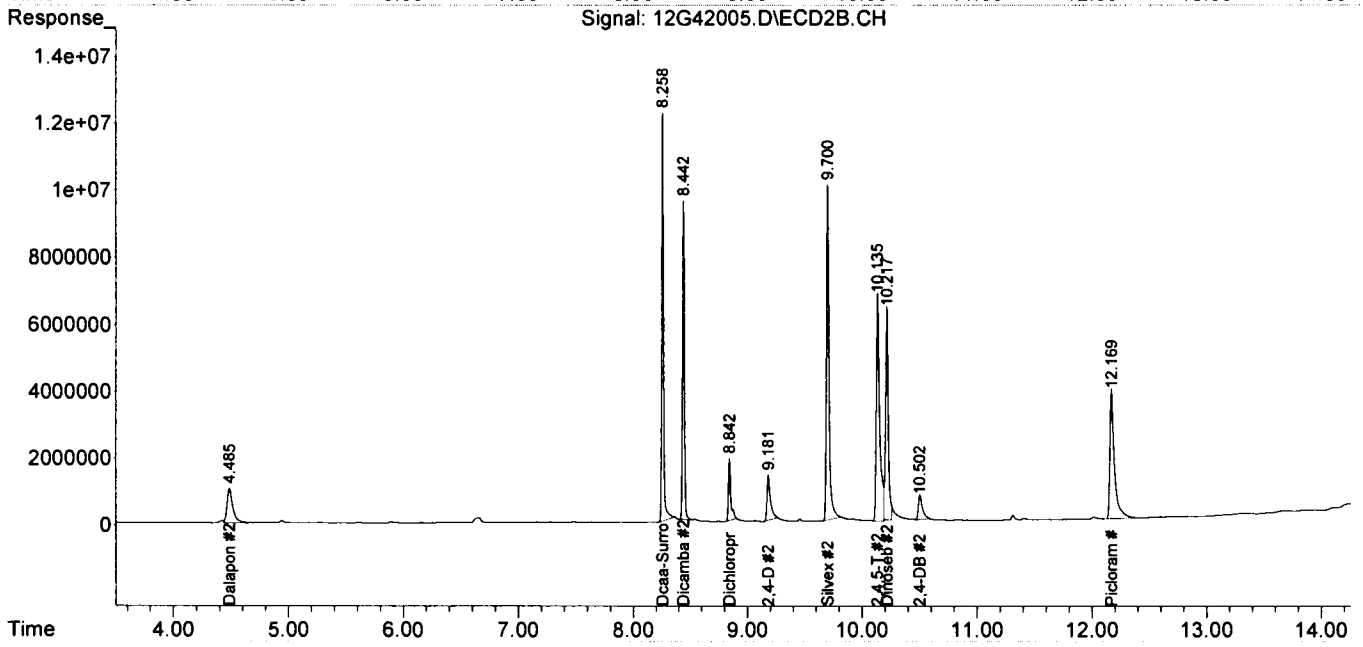
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-28-23\
Data File : 12G42005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28-Jun-23, 01:20:48
Operator : PR/KM/AH
Sample : CAL HERB@200PPB
Misc : S,HERB
ALS Vial : 100 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 08:00:00 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-28-23\
Data File : 12G42024.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28-Jun-23, 07:39:20
Operator : PR/KM/AH
Sample : CAL HERB@200PPB
Misc : S,HERB
ALS Vial : 100 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 09:44:57 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

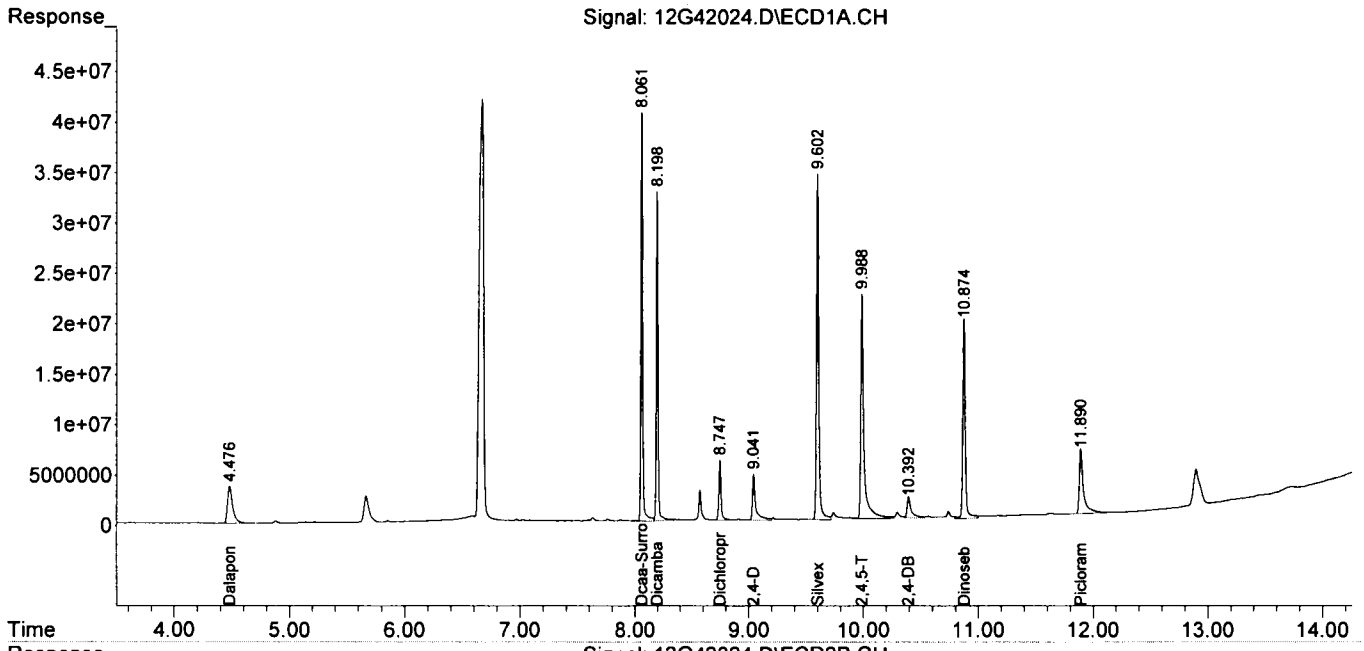
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
1)Dalapon	4.476	4.486	117.6E6	34318713	165.638m	176.468
2)Dcaa-Surrogate	8.061	8.258	437.7E6	125.6E6	804.715m	946.233
3)Dicamba	8.198	8.443	348.3E6	100.7E6	172.831	195.921
4)Dichloroprop	8.747	8.841	84322894	23467646	168.509m	184.903
5)2,4-D	9.041	9.177	94660347	33460300	170.828m	205.570
6)Silvex	9.602	9.698	482.7E6	149.5E6	167.054m	201.684
7)2,4,5-T	9.988	10.128	429.8E6	117.0E6	167.689m	173.374
8)2,4-DB	10.392	10.493	56081226	16022351	179.133m	172.056m
9)Dinoseb	10.874	10.214	307.4E6	99397212	175.911m	196.578m
10)Picloram	11.891	12.163	162.1E6	53194145	67.938	73.889

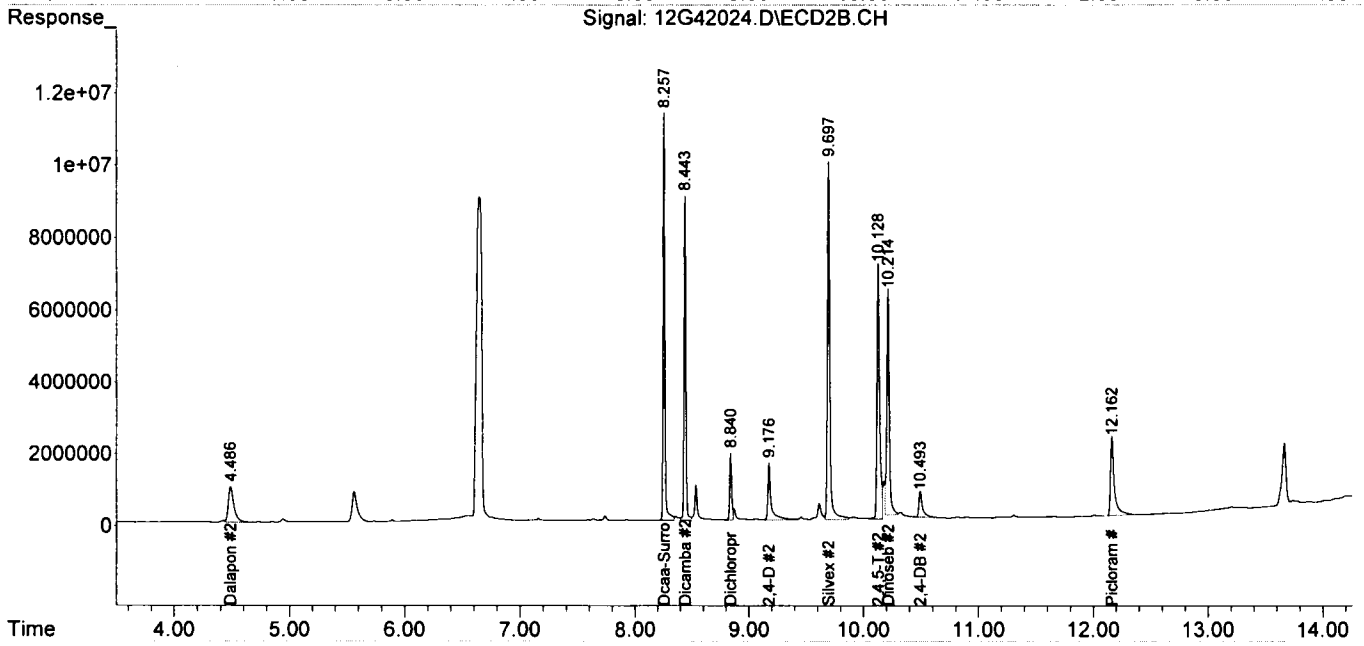
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2023\GC_12\Data\06-28-23\
Data File : 12G42024.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28-Jun-23, 07:39:20
Operator : PR/KM/AH
Sample : CAL HERB@200PPB
Misc : S,HERB
ALS Vial : 100 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 09:44:57 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





GC Herbicide Data
Raw QC Data

Form1

ORGANICS HERBICIDE REPORT

Sample Number: SMB108924
Client Id:
Data File: 12G41992.D
Analysis Date: 06/27/23 13:11
Date Rec/Extracted: NA-06/26/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8151A
Matrix: Soil
Initial Vol: 50g
Final Vol: 10ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
93-76-5	2,4,5-T	0.0095	U	1918-00-9	Dicamba	0.0094	U
94-75-7	2,4-D	0.0094	U	93-72-1	Silvex	0.0095	U

Worksheet #: 696586

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2023\GC_12\Data\06-27-23\
Data File : 12G41992.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27-Jun-23, 13:11:36
Operator : PR/KM/AH
Sample : SMB108924
Misc : S,HERB
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 13:54:16 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

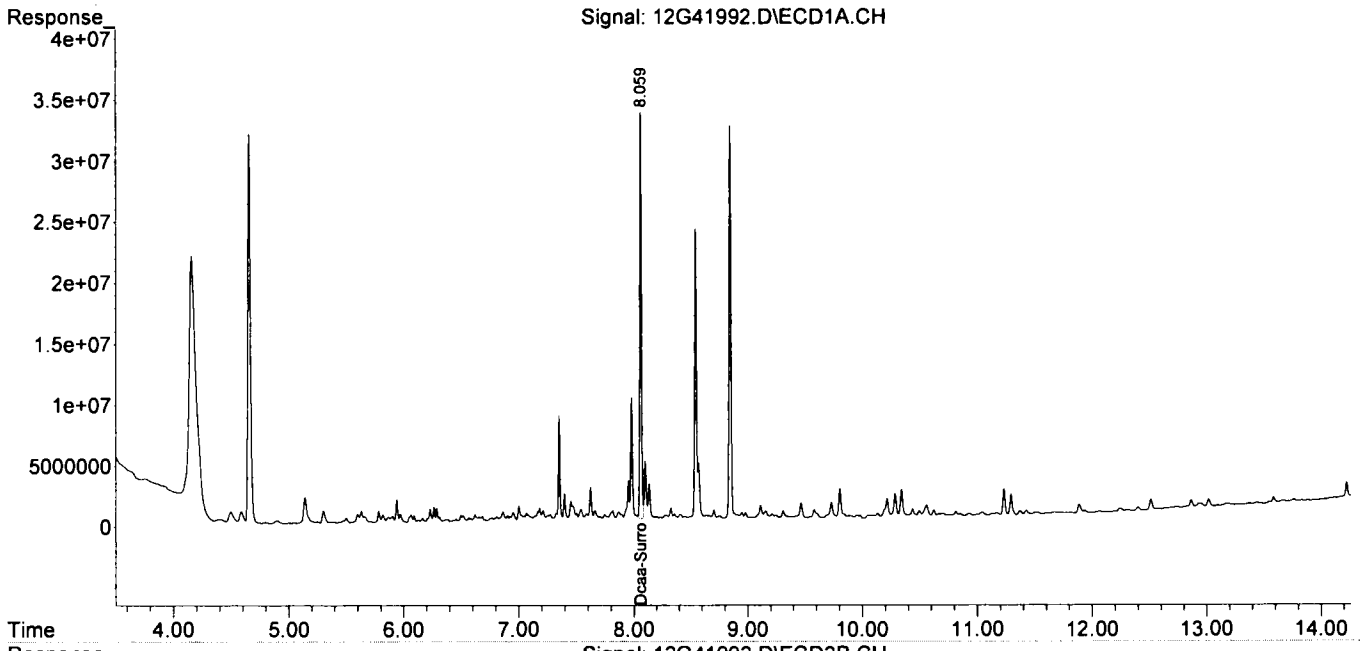
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
2)Dcaa-Surrogate	8.059	8.257	332.8E6	95627123	611.972m	720.311m

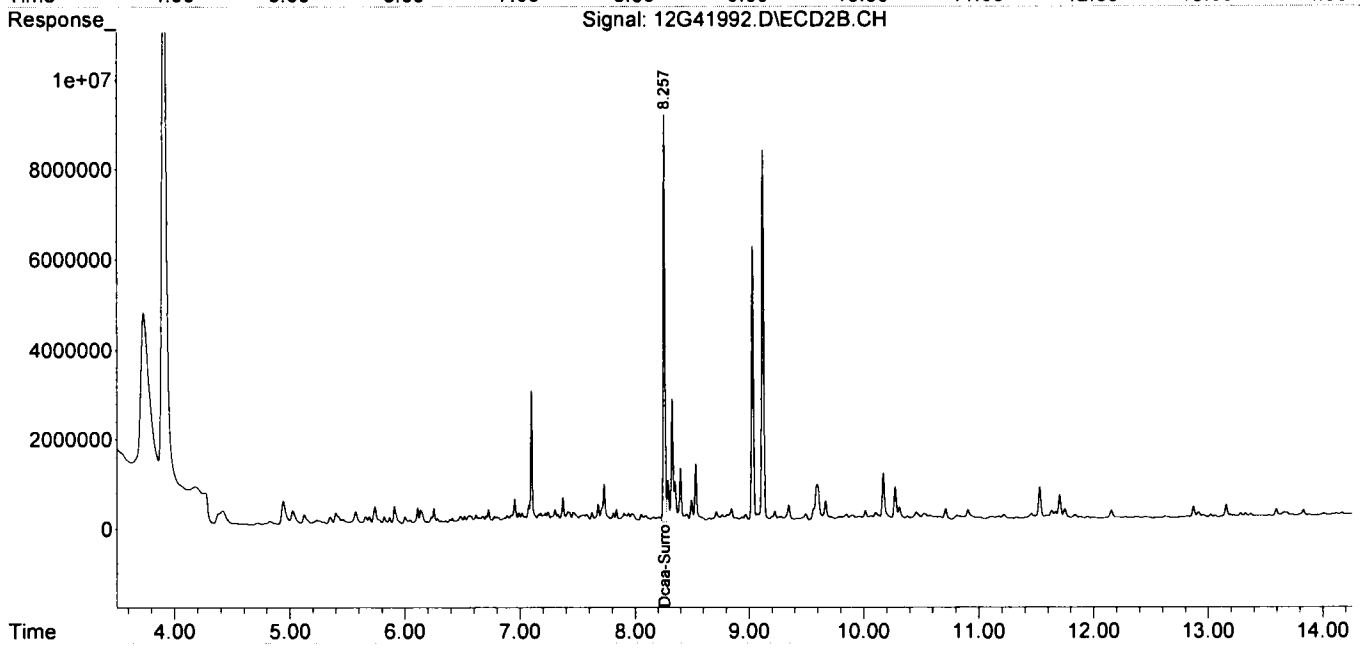
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2023\GC_12\Data\06-27-23\
Data File : 12G41992.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27-Jun-23, 13:11:36
Operator : PR/KM/AH
Sample : SMB108924
Misc : S,HERB
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 13:54:16 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Form3
Recovery Data Laboratory Limits
QC Batch: SMB108924

	Data File	Sample ID:	Analysis Date
Spike or Dup:	12G41993.D	SMB108924(MS)	6/27/2023 1:31:34 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8151 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Dicamba	1	204.18	0	376.08	54	25	130
2,4-D	1	215.35	0	376.08	57	10	130
Silvex	1	217.93	0	380.17	57	25	130
2,4,5-T	1	205.34	0	379.14	54	25	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-27-23\
Data File : 12G41993.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27-Jun-23, 13:31:34
Operator : PR/KM/AH
Sample : SMB108924(MS)
Misc : S,HERB
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 13:55:55 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
	Target Compounds						
1)	Dalapon	4.481	4.487	109.0E6	28968035	153.544	148.954
2)	Dcaa-Surrogate	8.059	8.257	297.7E6	84816019	547.290m	638.877m
3)	Dicamba	8.198	8.442	411.5E6	109.1E6	204.176m	212.276m
4)	Dichloroprop	8.745	8.839	103.8E6	36615592	207.510m	288.497m#
5)	2,4-D	9.036	9.171	119.3E6	34158361	215.353m	209.859m
6)	Silvex	9.600	9.695	629.8E6	162.3E6	217.934m	218.938m
7)	2,4,5-T	9.982	10.123	526.3E6	137.2E6	205.340m	203.328m
8)	2,4-DB	10.383	10.485	75519542	23757259	241.222m	255.118m
9)	Dinoseb	10.870	10.209	21921492	16575813	12.544	32.782 #
10)	Picloram	11.880	12.153	536.6E6	143.2E6	199.810m	198.902m

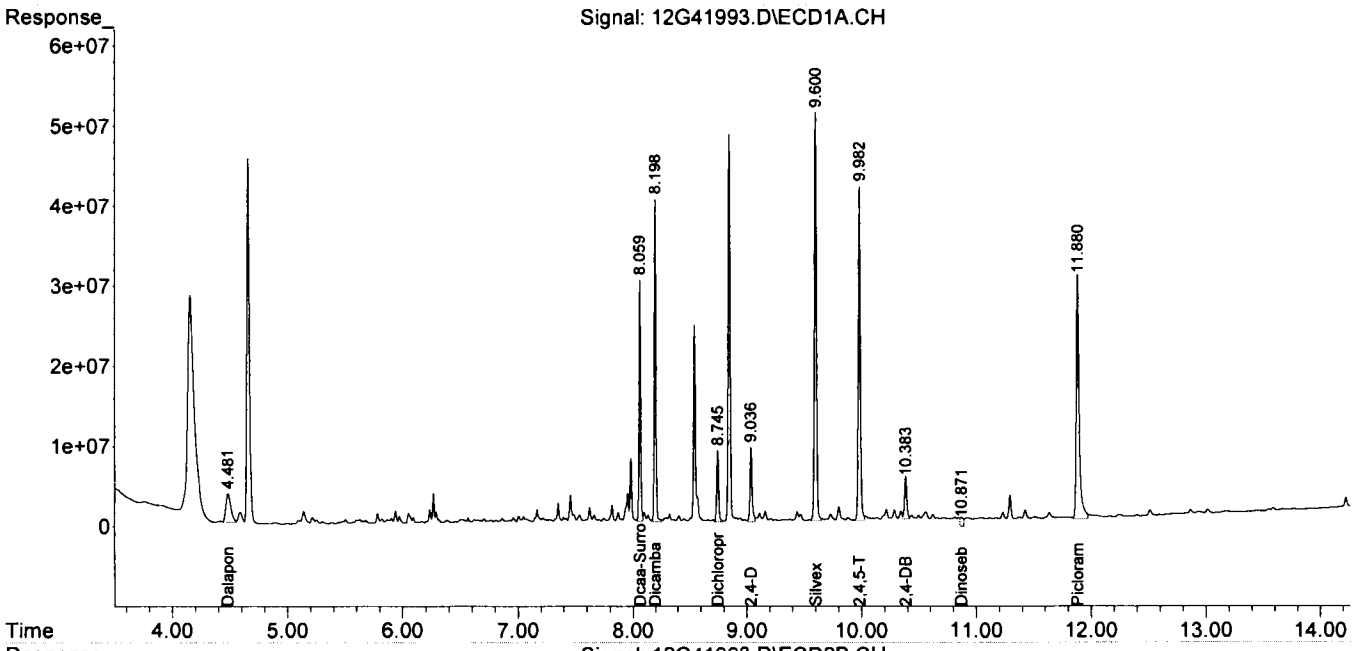
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

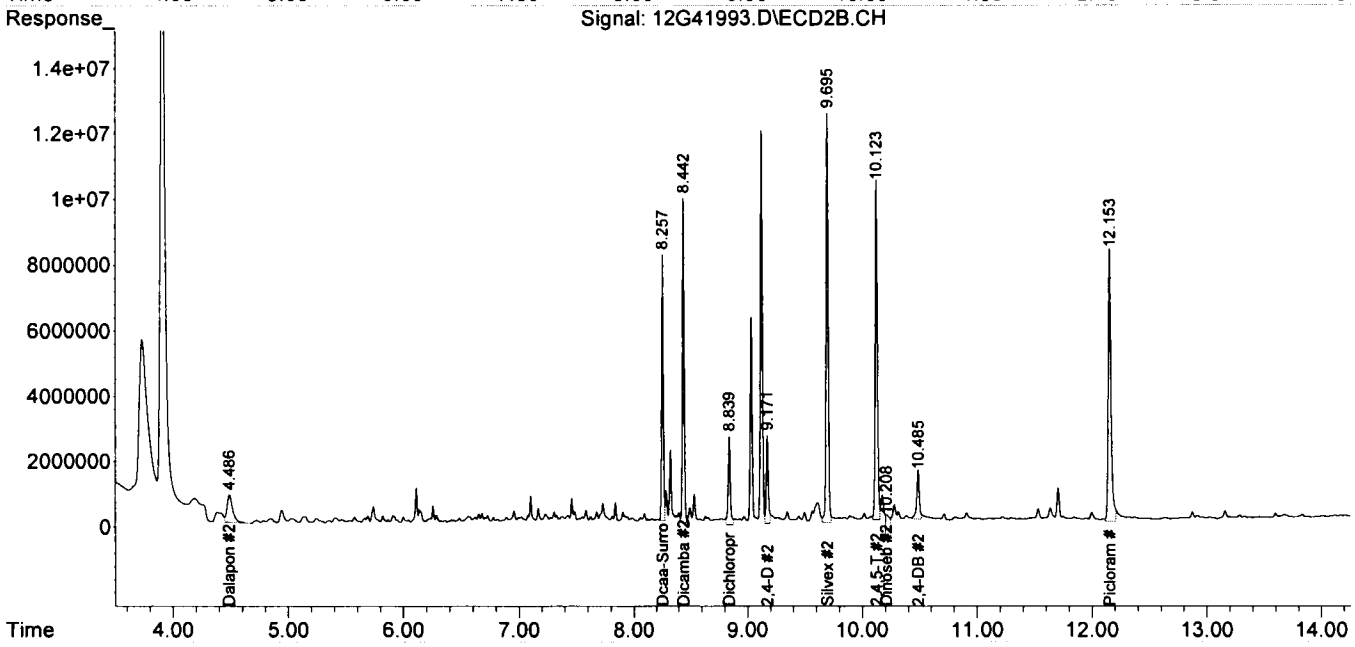
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-27-23\
Data File : 12G41993.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27-Jun-23, 13:31:34
Operator : PR/KM/AH
Sample : SMB108924(MS)
Misc : S,HERB
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 13:55:55 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Form3
Recovery Data Laboratory Limits
QC Batch: SMB108924

	Data File	Sample ID:	Analysis Date
Spike or Dup:	12G41994.D	AD38586-007(MS:AD38586-00	6/27/2023 1:51:34 PM
Non Spike(If applicable):	12G42009.D	AD38586-001	6/28/2023 2:40:25 AM
Inst Blank(If applicable):			

Method: 8151 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Dicamba	1	167.22	0	376.08	44	25	130
2,4-D	1	180.06	0	376.08	48	10	130
Silvex	1	187.9	0	380.17	49	25	130
2,4,5-T	1	170.84	0	379.14	45	25	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	12G41995.D	AD38586-008(MSD:AD38586-0	6/27/2023 2:11:35 PM
Non Spike(If applicable):	12G42009.D	AD38586-001	6/28/2023 2:40:25 AM
Inst Blank(If applicable):			

Method: 8151 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Dicamba	1	186.4	0	376.08	50	25	130
2,4-D	1	207.78	0	376.08	55	10	130
Silvex	1	213.54	0	380.17	56	25	130
2,4,5-T	1	193.32	0	379.14	51	25	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form

Form3
RPD Data Laboratory Limits
QC Batch: SMB108924

	Data File	Sample ID:	Analysis Date
Spike or Dup:	12G41995.D	AD38586-008(MSD:AD38586-0	6/27/2023 2:11:35 PM
Duplicate(If applicable):	12G41994.D	AD38586-007(MS:AD38586-00	6/27/2023 1:51:34 PM
Inst Blank(If applicable):			

Method: 8151 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Dicamba	1	**186.4**	**167.22**	11	40
2,4-D	1	**207.78**	**180.06**	14	40
Silvex	1	**213.54**	**187.9**	13	40
2,4,5-T	1	**193.32**	**170.84**	12	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-27-23\
Data File : 12G41994.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27-Jun-23, 13:51:34
Operator : PR/KM/AH
Sample : AD38586-007(MS:AD38586-001)(2X)
Misc : S,HERB:2
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 14:18:14 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
	Target Compounds						
1)	Dalapon	4.490	4.485	101.7E6	15023322	143.272	77.250 #
2)	Dcaa-Surrogate	8.058	8.257	127.3E6	39330451	234.016m	296.257 #
3)	Dicamba	8.197	8.442	168.5E6	48292884	83.611m	93.935
4)	Dichloroprop	8.744	8.838	49631821	14519706	99.183	114.402m
5)	2,4-D	9.036	9.171	49888207	13427836	90.031	82.497m
6)	Silvex	9.599	9.696	271.5E6	75282269	93.948	101.555m
7)	2,4,5-T	9.981	10.123	218.9E6	64305721	85.417	95.275
8)	2,4-DB	10.406	10.484	44758735	15829039	142.967m	169.981m
9)	Dinoseb	10.872	10.213	30370046	9748958	17.379	19.281
10)	Picloram	11.878	12.151	138.1E6	45328969	58.415	62.964

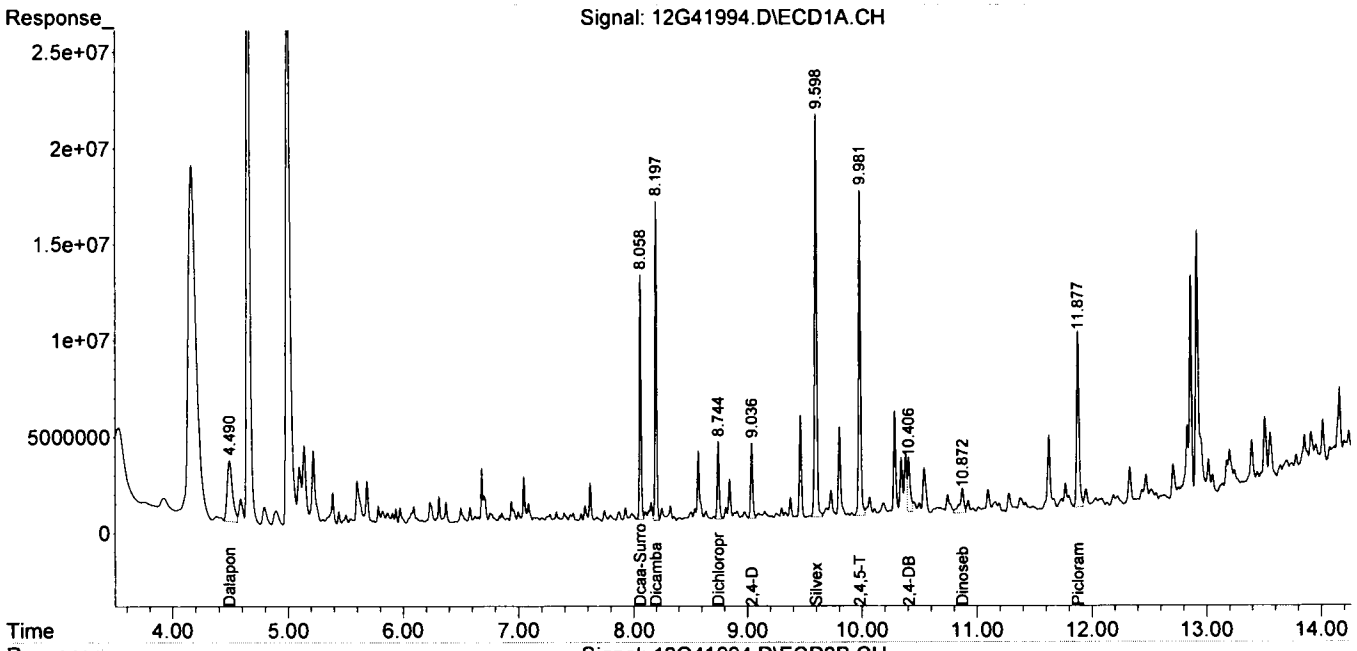
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

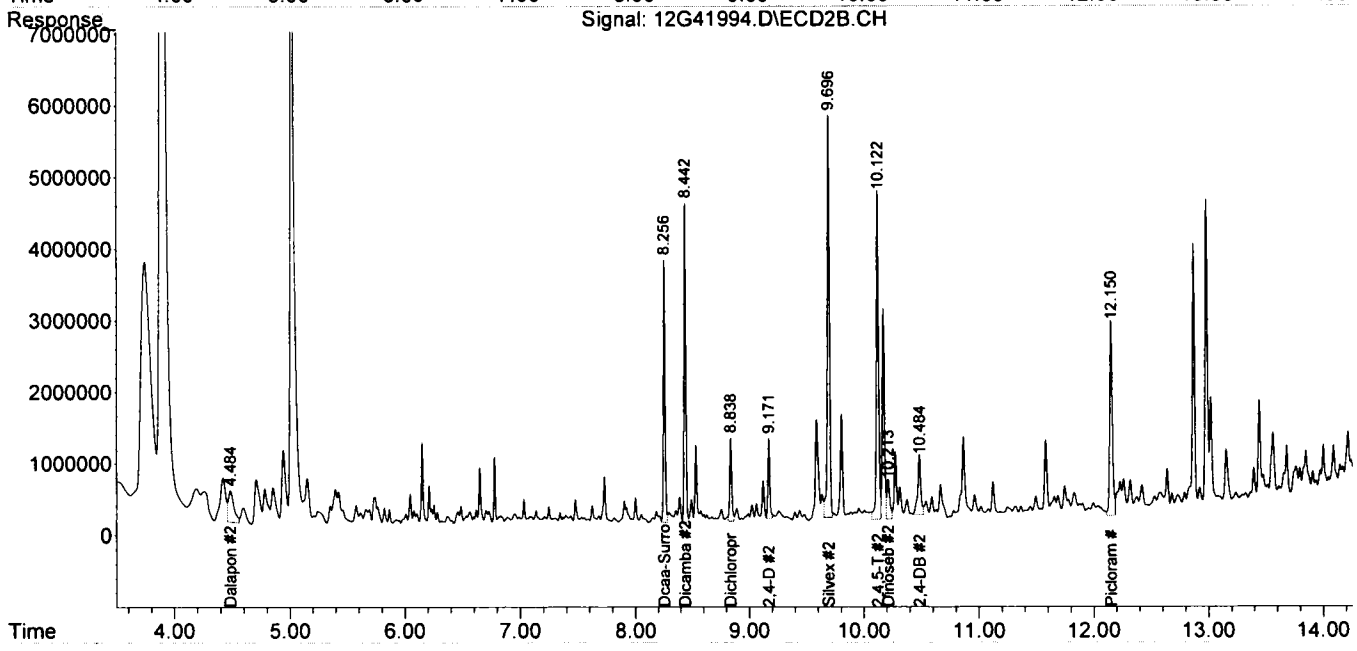
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-27-23\
Data File : 12G41994.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27-Jun-23, 13:51:34
Operator : PR/KM/AH
Sample : AD38586-007(MS:AD38586-001)(2X)
Misc : S,HERB:2
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 14:18:14 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2023\GC_12\Data\06-27-23\
Data File : 12G41995.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27-Jun-23, 14:11:35
Operator : PR/KM/AH
Sample : AD38586-008(MSD:AD38586-001)(2X) (Sig #1); AD38586-008(MS:AD38586-001)(2X) (Sig #2)
Misc : S,HERB:2
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 14:41:38 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
1)Dalapon	4.489	4.486	109.7E6	17319577	154.528	89.058 #
2)Dcaa-Surrogate	8.058	8.257	139.0E6	43153209	255.602m	325.052 #
3)Dicamba	8.197	8.442	187.8E6	53353110	93.202m	103.777
4)Dichloroprop	8.744	8.839	52141288	16888009	104.198	133.062 #
5)2,4-D	9.036	9.172	57570830	16641293	103.895	102.239
6)Silvex	9.599	9.696	308.5E6	85760683	106.768	115.691
7)2,4,5-T	9.981	10.122	247.7E6	66626602	96.661	98.713m
8)2,4-DB	10.406	10.484	66311830	13923181	211.811	149.514m#
9)Dinoseb	10.872	10.213	37065605	12423957	21.210	24.571
10)Picloram	11.876	12.151	200.7E6	59228787	82.936	82.271

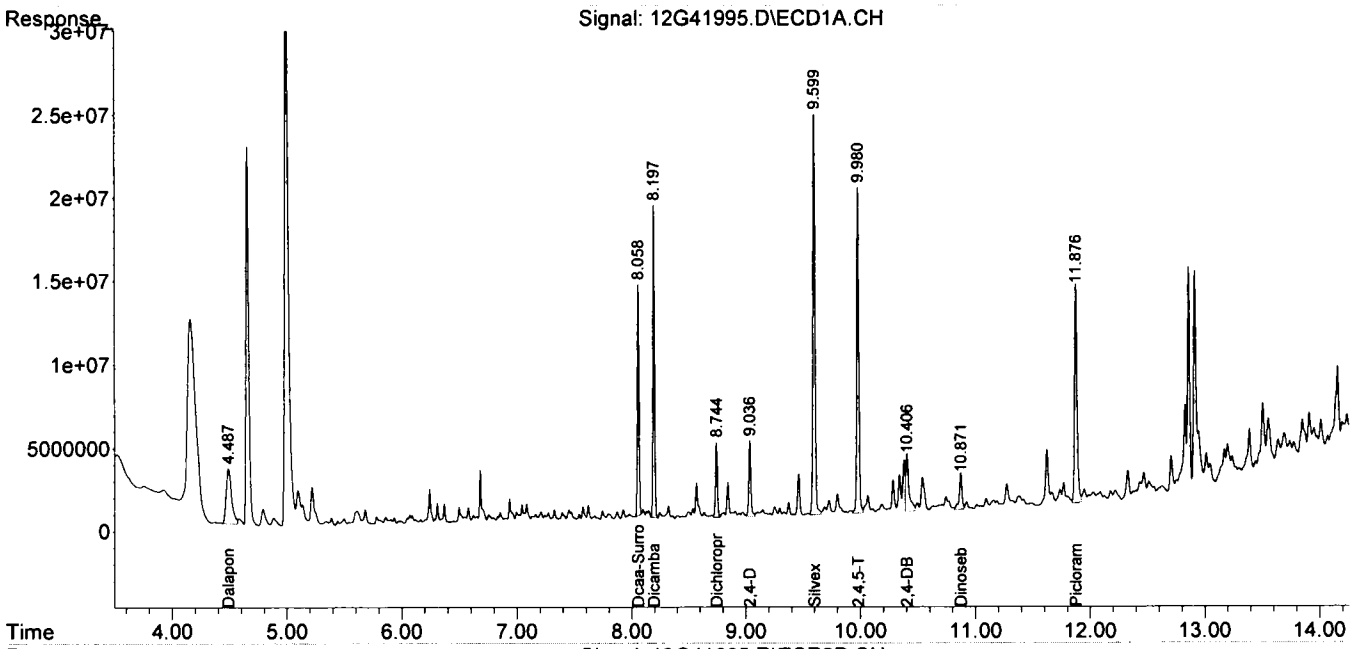
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

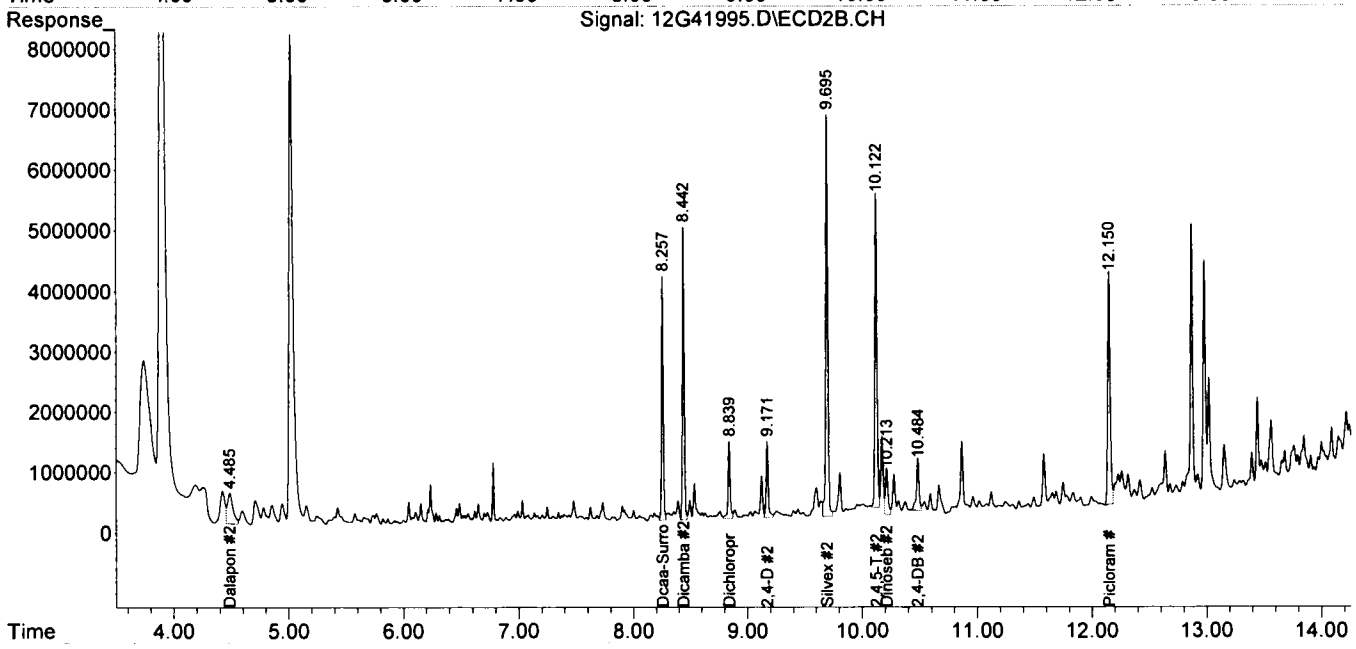
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-27-23\
Data File : 12G41995.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 27-Jun-23, 14:11:35
Operator : PR/KM/AH
Sample : AD38586-008(MSD:AD38586-001)(2X) (Sig #1); AD38586-008(MS:AD38586-001)(2X) (Sig
Misc : S,HERB:2
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 27 14:41:38 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-28-23\
Data File : 12G42009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28-Jun-23, 02:40:25
Operator : PR/KM/AH
Sample : AD38586-001
Misc : S,HERB
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 09:33:59 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
	Target Compounds						
2)	Dcaa-Surrogate	8.059	8.257	252.3E6	71000591	463.842	534.812

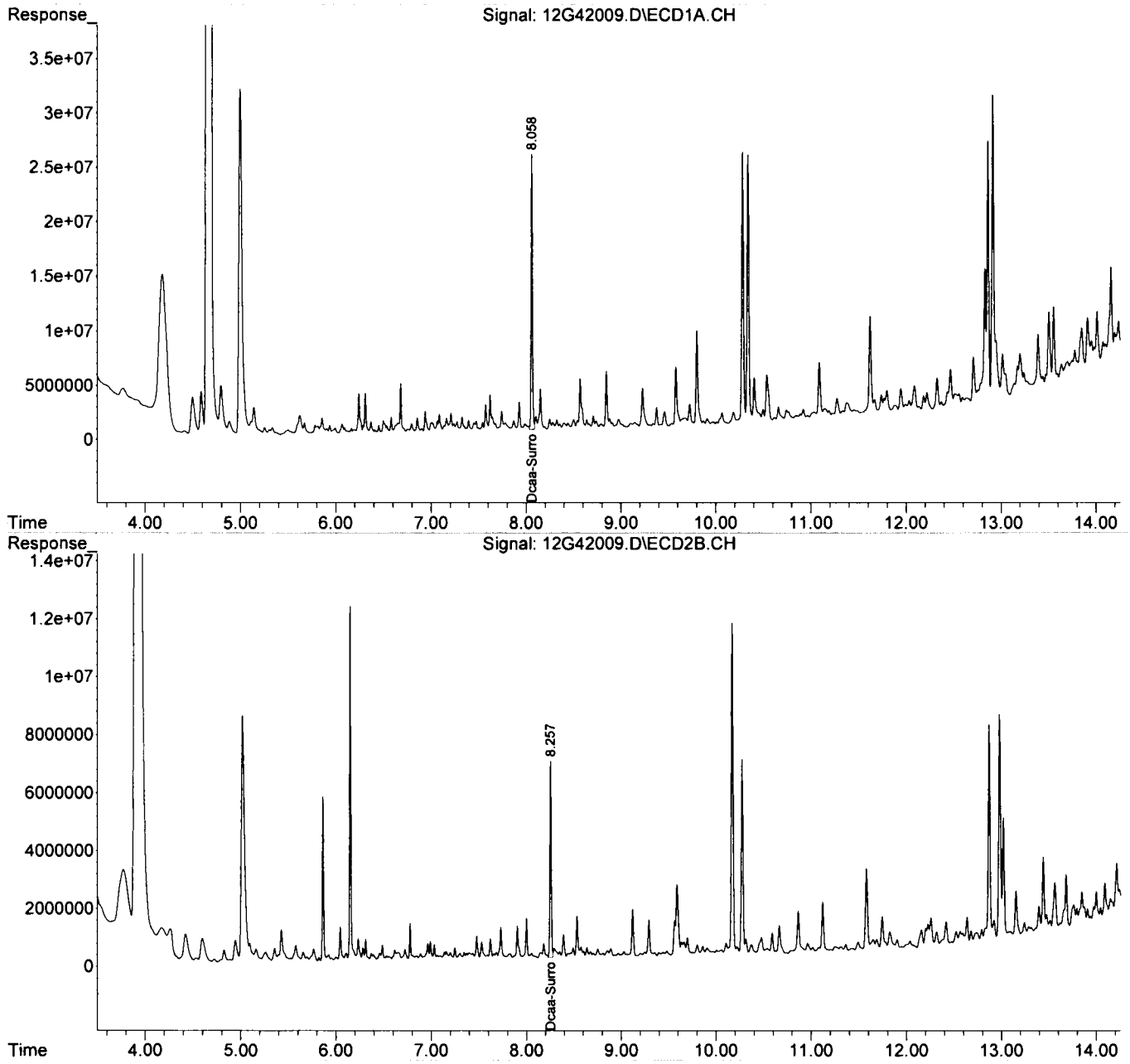
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-28-23\
Data File : 12G42009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28-Jun-23, 02:40:25
Operator : PR/KM/AH
Sample : AD38586-001
Misc : S,HERB
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 28 09:33:59 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32



GC Herbicide Data
Logbook Data

QC108924

Hampton

SOIL EXTRACTION by SHAKER

Method Blank No. SMB- 108924
Blank Spike (SMBS): _____
Blank Spike (SMBS): _____
Start Ext. Time: _____
End Ext. Time: _____
Recirculator: Start temp: _____
End temp: _____

Date: 6/26/23
Matrix Spike: 38586-07
Matrix Spike: -08
Balance Used: 041
Shaker used: _____
S Evap Used: 8
Condenser Flow: 2500 CCM

Method: Herb - 8151A

Sample Number	No. in batch	Initial Vol	HCL pH =2 1st	HCL pH =2 2nd	H_2SO_4 pH ≤2	Final Vol	Hydrolysis Start / End Time	Esterification	Ext. by	Position	Comments
MB108924	✓	509	✓	✓	✓	10ml		✓	GP		
MB2108924	|	|	|	|	|	|		|	|		
MBS108924	|	|	|	|	|	|		|	|		
MS38586-07	|	|	|	|	|	|		|	|		
MSD3&586-08	|	|	|	|	|	|		|	|		
38586-01	1	|	|	|	|	|		|	|		
-02	2	|	|	|	|	|		|	|		
-07	3	|	|	|	|	|		|	|		
-08	4	|	|	|	|	|		|	|		
38582-01	5	|	|	|	|	|		|	|		
-02	6	|	|	|	|	|		|	|		
-03	7	|	|	|	|	|		|	|		
-04	8	|	|	|	|	|		|	|		
38673-01	9	|	|	|	|	|		|	|		
-02	10	|	|	|	|	|		|	|		
-03	11	|	|	|	|	|		|	|		
38674-02	12	|	|	|	|	|		|	|		
38704-02	13	|	|	|	|	|		|	|		
-04	14	|	|	|	|	|		|	|		
-06	15	|	|	|	|	|		|	|		
38705-02	16	|	|	|	|	|		|	|		
-04	17	|	|	|	|	|		|	|		
-06	18	|	|	|	|	|		|	|		

Spike Standard

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
100	40	38586	Herb Spike

Surrogate Standard

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
100	60	39483	Herb Surr.

Reagent Lots: $MeCl_2$ 15351 Acetone 153556 Hexane 152860 Ether 14819 baked Na_2SO_4 31751 baked Sand —
Silicic Acid 138541 10N NaOH 313232 1:1 H_2SO_4 354468 HCl 14140 Diazald 14521 NaCl —
37% KOH 318553 Methanol 14261 Carbitol 11976 Iso-Octane 13863

Relinquished By: GP Date: 6/26/23
Received By: RR Date: 06/27/23

RUN LOG

1-1-12G41150

Instrument: GC_12 Year: 2023
Analyst: PR/KM/AH

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
12G41150.	CAL HERB@50PPB		B-34846,V-395954	KM 05/23/23,PR 05/30/23,PR 05/30/23,pr 05/30/23,pr		Aqueous	1	1	8151	05/22 09:11
12G41151.	CAL HERB@100PP		B-34846,V-395955	KM 05/23/23,PR 05/30/23,PR 05/30/23,pr 05/30/23,pr		Aqueous	1	1	8151	05/22 09:31
12G41152.	CAL HERB@200PP		B-34846,V-395956	KM 05/23/23,PR 05/30/23,PR 05/30/23,pr 05/30/23,pr		Aqueous	1	1	8151	05/22 09:51
12G41153.	CAL HERB@400PP		B-34846,V-395957	KM 05/23/23,PR 05/30/23,PR 05/30/23,pr 05/30/23,pr		Aqueous	1	1	8151	05/22 10:11
12G41154.	CAL HERB@500PP		B-34846,V-395958	KM 05/23/23,PR 05/30/23,PR 05/30/23,pr 05/30/23,pr		Aqueous	1	1	8151	05/22 10:31
12G41155.	CAL HERB@600PP		B-34846,V-395959	KM 05/23/23,PR 05/30/23,PR 05/30/23,pr 05/30/23,pr		Aqueous	1	1	8151	05/22 10:51
12G41156.	ICV HERB		V-395960,V-34846	KM 05/23/23,PR 05/30/23,PR 05/30/23,PR 05/31/23,PR		Aqueous	1	1	8151	05/22 11:16
12G41157.	TEST		TEST	PR 05/22/23		Aqueous	1	1	8151	05/22 11:36
12G41158.	WMB108540		OK	PR 05/22/23		Aqueous	1	1	8151	05/22 12:20
12G41159.	WMB108540(MS)		OK WMB108540	PR 05/22/23		Aqueous	1	1	8151	05/22 12:40
12G41160.	AD37540-006	Eo	RR5X	PR 05/22/23	HE-8151	Aqueous	1	1	8151	05/22 13:00
12G41161.	AD37540-006(5X)	Eo	OK CONFIRMED	PR 05/22/23	HE-8151	Aqueous	5	5	8151	05/22 13:25
12G41162.	37540-006(10X)		NOT USED	PR 05/22/23		Aqueous	10	10	8151	05/22 13:45
12G41163.	AD37977-001(T)(M		OK WMB108540	PR 05/22/23	HETCLP-815	Aqueous	1	1	8151	05/22 14:11
12G41164.	AD37977-001(T)(M	S8	OK WMB108540	PR 05/22/23	HETCLP-815	Aqueous	1	1	8151	05/22 14:43
12G41165.	WMB108507		OK	PR 05/22/23		Aqueous	1	1	8151	05/22 15:03
12G41166.	WMB108507(MS)		OK WMB108507	PR 05/22/23		Aqueous	1	1	8151	05/22 15:23
12G41167.	AD37999-001		OK	PR 05/22/23	HE-8151	Aqueous	1	1	8151	05/22 15:42
12G41168.	AD38008-004(T)		OK	PR 05/22/23	HETCLP-815	Aqueous	1	1	8151	05/22 16:02
12G41169.	AD38008-003(T)		OK	PR 05/22/23	HETCLP-815	Aqueous	1	1	8151	05/22 16:22
12G41170.	AD38008-001(T)		OK WMB108507	PR 05/22/23	HETCLP-815	Aqueous	1	1	8151	05/22 16:42
12G41171.	CAL HERB@200PP		OK,V-385093	PR 05/22/23		Aqueous	1	1	8151	05/22 17:02

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
An	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 ... not checked
B8m	Blank 600 series missing	Etn	Tcln/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for enh
B8m	Blank 8000 series missing	Eto	Tcln Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evm	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rnd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rnd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Rn	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Diff
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt csv for init calibration chek rls	S6	600 series surrogate out
Cme	Ending Cal mission for sample (8000 series)	Iw	Initial cal warning Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

1-1-12G41979

Instrument: GC_12 Year: 2023
Analyst: PR/KM/AH

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
12G41979.	200PPB	Cn	NOT USED	KM 06/27/23		Aqueous	1	1	8151	06/27 01:00
12G41980.	CAL HERB@200PP		OK,V-395956	KM 06/27/23		Aqueous	1	1	8151	06/27 01:20
12G41981.	AD38611-006(T)		OK	KM 06/27/23	HETCLP-815	Aqueous	1	1	8151	06/27 01:40
12G41982.	AD38611-017(T)		OK	KM 06/27/23	HETCLP-815	Aqueous	1	1	8151	06/27 02:00
12G41983.	AD38611-028(T)		OK	KM 06/27/23	HETCLP-815	Aqueous	1	1	8151	06/27 02:20
12G41984.	AD38611-034(T)		OK	KM 06/27/23	HETCLP-815	Aqueous	1	1	8151	06/27 02:40
12G41985.	EF-1-V-397559(06/2		OK	KM 06/27/23		Aqueous	1	6	8151	06/27 03:00
12G41986.	EF-1-V-397210(04/1		OK	KM 06/27/23		Aqueous	1	4	8151	06/27 03:20
12G41987.	EF-1-V-39559(06/21		OK	KM 06/27/23		Aqueous	1	6	8151	06/27 03:40
12G41988.	EF-1-V-397210(06/1		OK	KM 06/27/23		Aqueous	1	6	8151	06/27 04:00
12G41989.	CAL HERB@200PP		OK	KM 06/27/23		Aqueous	1	1	8151	06/27 07:16
12G41990.	108924		RR	KM 06/27/23		Soil	1	1	8151	06/27 12:31
12G41991.	108924(MS)		RR	KM 06/27/23		Soil	1	1	8151	06/27 12:51
12G41992.	SMB108924		OK	KM 06/27/23		Soil	1	1	8151	06/27 13:11
12G41993.	SMB108924(MS)		OK SMB108924	KM 06/27/23,KM 06/28/23		Soil	1	1	8151	06/27 13:31
12G41994.	AD38586-007(MS:A		OK SMB108924	KM 06/28/23	HE-8151	Soil	2	1	8151	06/27 13:51
12G41995.	AD38586-008(MSD:		OK SMB108924	KM 06/28/23	HE-8151	Soil	2	1	8151	06/27 14:11
12G41996.	AD38582-001(2X)		OK		HE-8151	Soil	2	2	8151	06/27 14:31
12G41997.	AD38582-002		OK		HE-8151	Soil	1	1	8151	06/27 14:51
12G41998.	AD38582-003		OK		HE-8151	Soil	1	1	8151	06/27 15:11
12G41999.	AD38582-004(2X)		OK		HE-8151	Soil	2	2	8151	06/27 15:31
12G42000.	WMB108910		OK	KM 06/28/23		Aqueous	1	1	8151	06/27 15:51
12G42001.	WMB108910(MS)		OK WMB108910	KM 06/28/23		Aqueous	1	1	8151	06/27 16:11
12G42002.	AD38674-002		OK	KM 06/28/23	HE-8151	Soil	1	1	8151	06/27 16:32
12G42003.	CAL HERB@200PP		OK	KM 06/28/23		Aqueous	1	1	8151	06/27 16:52

Anc	Area Not Checked	En	Extraction Performed Past Hold	Co	Warning Possible Carry Over
An	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Etn	Tcln/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for eph
B8m	Blank 8000 series missing	Eto	Tcln Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evm	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C8f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmd csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

1-1-12G42004

Instrument: GC_12 Year: 2023
Analyst: PR/KM/AH

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
12G42004.	200PPB	Cn	NOT USED	PR 06/28/23		Soil	1	1	8151	06/28 01:01
12G42005.	CAL HERB@200PP		OK,V-395956	PR 06/28/23		Soil	1	1	8151	06/28 01:20
12G42006.	AD38673-003		OK	PR 06/28/23	HE-8151	Soil	1	1	8151	06/28 01:40
12G42007.	38586-008		OK	PR 06/28/23		Soil	1	1	8151	06/28 02:00
12G42008.	AD38673-001		OK	PR 06/28/23	HE-8151	Soil	1	1	8151	06/28 02:20
12G42009.	AD38586-001		OK SMB108924	PR 06/28/23	HE-8151	Soil	1	1	8151	06/28 02:40
12G42010.	AD38586-002		OK	PR 06/28/23	HE-8151	Soil	1	1	8151	06/28 03:00
12G42011.	38586-007		OK	PR 06/28/23		Soil	1	1	8151	06/28 03:20
12G42012.	AD38704-002		OK	PR 06/28/23	HE-8151	Soil	1	1	8151	06/28 03:40
12G42013.	AD38704-004		OK	PR 06/28/23	HE-8151	Soil	1	1	8151	06/28 04:00
12G42014.	AD38704-006		OK	PR 06/28/23	HE-8151	Soil	1	1	8151	06/28 04:20
12G42015.	AD38705-002		OK	PR 06/28/23	HE-8151	Soil	1	1	8151	06/28 04:40
12G42016.	AD38705-004		OK	PR 06/28/23	HE-8151	Soil	1	1	8151	06/28 04:59
12G42017.	AD38705-006		OK	PR 06/28/23	HE-8151	Soil	1	1	8151	06/28 05:19
12G42018.	AD38673-002(2X)		OK	PR 06/28/23	HE-8151	Soil	2	2	8151	06/28 05:39
12G42019.	AD38695-001(T)(M		OK	PR 06/28/23	HETCLP-815	Aqueous	1	1	8151	06/28 05:59
12G42020.	AD38695-001(T)(M		OK	PR 06/28/23	HETCLP-815	Aqueous	1	1	8151	06/28 06:19
12G42021.	AD38589-008(T)		OK	PR 06/28/23	HETCLP-815	Aqueous	1	1	8151	06/28 06:39
12G42022.	AD38717-008(T)		OK	PR 06/28/23	HETCLP-815	Aqueous	1	1	8151	06/28 06:59
12G42023.	AD38691-007(T)		OK	PR 06/28/23	HETCLP-815	Aqueous	1	1	8151	06/28 07:19
12G42024.	CAL HERB@200PP		OK	PR 06/28/23		Soil	1	1	8151	06/28 07:39
12G42025.	SMB108900	Cme	OK	PR 06/28/23		Soil	1	1	8151	06/28 08:02
12G42026.	SMB108900(MS)	Cme	OK SMB108900	PR 06/28/23		Soil	1	1	8151	06/28 08:22
12G42027.	AD38633-019(MS)	Cme	OK SMB108900	PR 06/28/23	HE-8151	Soil	1	1	8151	06/28 08:42
12G42028.	AD38633-019(MSD)	Cme	OK SMB108900	PR 06/28/23	HE-8151	Soil	1	1	8151	06/28 09:02
12G42029.	AD38633-019	Cme	OK	PR 06/28/23	HE-8151	Soil	1	1	8151	06/28 09:22
12G42030.	AD38589-017(T)	Cme	OK,OK,CONFIRMED	KM 06/28/23	HETCLP-815	Aqueous	1	1	8151	06/28 09:42
12G42031.	AD38691-013(T)	Cme	OK,CONFIRMED	KM 06/28/23	HETCLP-815	Aqueous	1	1	8151	06/28 10:02
12G42032.	AD38633-009	Cme	OK	KM 06/28/23	HE-8151	Soil	1	1	8151	06/28 10:22
12G42033.	AD38633-014	Cme	OK	KM 06/28/23	HE-8151	Soil	1	1	8151	06/28 10:42
12G42034.	AD38633-069	Cme	OK	KM 06/28/23	HE-8151	Soil	1	1	8151	06/28 11:02
12G42035.	AD38633-074	Cme	OK	KM 06/28/23	HE-8151	Soil	1	1	8151	06/28 11:22
12G42036.	AD38633-084	Cme	OK	KM 06/28/23	HE-8151	Soil	1	1	8151	06/28 11:42
12G42037.	AD38633-024	Cme	OK	KM 06/28/23	HE-8151	Soil	1	1	8151	06/28 12:02
12G42038.	AD38633-029	Cme	OK	KM 06/28/23	HE-8151	Soil	1	1	8151	06/28 12:23
12G42039.	AD38633-034	Cme	OK	KM 06/28/23	HE-8151	Soil	1	1	8151	06/28 12:43
12G42040.	AD38633-039	Cme	OK	KM 06/28/23	HE-8151	Soil	1	1	8151	06/28 13:03
12G42041.	AD38633-044	Cme	OK	KM 06/28/23	HE-8151	Soil	1	1	8151	06/28 13:23
12G42042.	AD38633-049	Cme	OK	KM 06/28/23	HE-8151	Soil	1	1	8151	06/28 13:43
12G42043.	AD38633-054	Cme	OK	KM 06/28/23	HE-8151	Soil	1	1	8151	06/28 14:03

Anc	Area Not Checked	En	Extraction Performed Past Hold	Co	Warning Possible Carry Over
An	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B8m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Crn	C30/C20 failed for enh
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C18	Calibration Column 1 Out (600 Series)	Hh	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Hn	Sample Analyzed outside of hold time	R18 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C28	Calibration Column 2 Out (600 Series)	I18 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Rn	Retention Time Out Or %Diff Out
C8f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt csv for init calibration chek rls	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning Ini cal file <> method	S8	8000 series surrogate out
Co	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 11976

Description
diethylene glycol

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Fisher	D50-4	182041	09/14/18	04/30/33	Lopez, Jose	4	4L	neat	neat

Veritech Control/Receipt Number: 13854

Description
Silicic Acid

ApprovedBy: akmal
ApproveDate: 04/06/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Fisher	A288-500	201440	04/06/21	12/31/25	Burwell, John	1	500g	neat	neat

Veritech Control/Receipt Number: 13863

Description
Iso octane

ApprovedBy: akmal
ApproveDate: 04/09/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Fisher	O299-4	204930	04/09/21	11/30/25	Lopez, Jose	1	4L	neat	neat

Veritech Control/Receipt Number: 14261

Description
METHANOL

ApprovedBy: jessica
ApproveDate: 10/27/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Tedia	LS-1950010	21070088	10/27/21	10/26/26	Patel, Jessica	6	4 L	NEAT	NEAT

Veritech Control/Receipt Number: 14470

Description
Hydrochloric Acid

ApprovedBy: akmal
ApproveDate: 01/03/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9539-05	22A1362001	03/07/22	07/14/23	Lopez, Jose	16	2.5L	neat	neat

Veritech Control/Receipt Number: 14527

Description
Diazald(N-Methyl-N-nitrosotoluene-4-sulphonamide)

ApprovedBy: akmal
ApproveDate: 04/12/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Ontario Chemical	M3996	2202-0306	04/11/22	04/11/26	Hamid, Akmal	1	4.75	NEAT	NEAT

Veritech Control/Receipt Number: 15286

Description
n-hexanes

ApprovedBy: akmal
ApproveDate: 05/23/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Tedia	HA1721-001	22090086	05/18/23	10/19/24	Lopez, Jose	48	4L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15356

Description
Acetone

ApprovedBy: akmal
ApproveDate: 06/12/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
TEDIA	AA1111	22070110	06/09/23	07/23/24	Cajuste, Pierre	80	4 L	Neat	Neat

Veritech Control/Receipt Number: 15357

Description
Dichloromethane

ApprovedBy: akmal
ApproveDate: 06/13/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco/EMD	DX0831	63083	06/12/23	06/11/28	Lopez, Jose	100	4L	neat	neat

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-343232

Prepared By: Nadler, Jacob | Department: Organics | ApprovedBy: AKMAL
Description: 10N Sodium Hydroxide | BatchNumber: | ApproveDate: 02/10/21
Prep Date: 1/7/2021 | Concentration: 10 n | Checked: Yes
Expiration Date: 8/31/2021 | Final Volume: 4000 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12651	DI H2O	4000 ml		10 n
13691	sodium hydroxide	1600 g	neat neat	10 n

Veritech Lot Number: V-349623

Prepared By: Nelson, Claudy | Department: OrgPrep | ApprovedBy: akmal
Description: 1:1 H2SO4 | BatchNumber: B-33098 | ApproveDate: 05/11/21
Prep Date: 7/11/2022 | Concentration: 50 % | Checked: Yes
Expiration Date: 6/11/2025 | Final Volume: 1 l

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
	DI WATER FILL TO THE VOLUME	500 ml		
14722	Sulfuric Acid	500 ml	neat neat	50 %
V-349623	1:1 H2SO4		50 %	

Veritech Lot Number: V-378533

Prepared By: User, Organics | Department: Organics | ApprovedBy: akmal
Description: 1:1 Methylene Chloride/ Acetone | BatchNumber: | ApproveDate: 08/29/22
Prep Date: 8/23/2022 | Concentration: 1:1 | Checked: Yes
Expiration Date: 2/15/2023 | Final Volume: 4000 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14768	Acetone	2000 ml	neat neat	neat
14777	Dichloromethane	2000 ml	neat neat	neat

Veritech Lot Number: V-384468

Prepared By: User, Organics | Department: OrgPrep | ApprovedBy: akmal
Description: 1:1 H2SO4 | BatchNumber: B-33098 | ApproveDate: 11/28/22
Prep Date: 11/21/2022 | Concentration: 50 % | Checked: Yes
Expiration Date: 6/11/2023 | Final Volume: 1 l

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
	DI WATER FILL TO THE VOLUME	500 ml		
14769	sulfuric acid	500 ml	neat neat	50 %
V-349623	1:1 H2SO4		50 %	

Veritech Lot Number: V-388426

Prepared By: Hamid, Akmal | Department: Organics | ApprovedBy: akmal
Description: HERBICIDE SPIKE (DANGER) | BatchNumber: | ApproveDate: 01/27/23
Prep Date: 1/27/2023 | Concentration: 40 ppm | Checked: Yes
Expiration Date: 7/27/2023 | Final Volume: 50 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15029	Methyl Alcohol	46 ml	neat neat	
15068	Chlorinated HERB.Std(For Spike)	2 ml	1000 ppm	40 ppm
15069	Picloram	2 ml	1000 ppm	40 ppm

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-396483

Prepared By:	McCracken, Kaitlyn	Department: Organics	ApprovedBy: akmal
Description:	DCAA HERB LAB SURR (danger)	BatchNumber:	ApproveDate: 06/02/23
Prep Date:	6/1/2023	Concentration: 100 ppm	Checked: Yes
Expiration Date:	12/1/2023	Final Volume: 50 ml	

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15194	2,4-Dichlorophenylacetic acid	5 ml	1000 ppm	100 ppm
15275	acetone	45 ml	neat neat	

Veritech Lot Number: V-397751

Prepared By:	User, Organics	Department: Organics	ApprovedBy: akmal
Description:	BAKED sodium sulphate	BatchNumber:	ApproveDate: 06/23/23
Prep Date:	6/20/2023	Concentration: 4000 g	Checked: Yes
Expiration Date:	7/22/2023	Final Volume: 4000 g	

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15342	sodium sulfate	4000 g	neat neat	neat neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 12651

Description
DI H2O

ApprovedBy: janee
ApproveDate: 10/10/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
EVOQUA	1	1	07/08/19	07/07/20	Cousineau, Paul	1			

Veritech Control/Receipt Number: 13691

Description
Sodium Hydroxide

ApprovedBy: jean
ApproveDate: 01/07/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Laboratory Sales	LS-2755095	2018100546	01/07/21	08/31/21	Lopez, Jose	2	12kg	neat	neat

Veritech Control/Receipt Number: 14722

Description
Sulfuric Acid

ApprovedBy: jean
ApproveDate: 07/19/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
EMD/supelco	SX1247-2	62014	07/12/22	07/13/25	Lopez, Jose	3	2.5L	neat	neat

Veritech Control/Receipt Number: 14768

Description
Acetone

ApprovedBy: akmal
ApproveDate: 08/12/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9254-03	22D1162003	08/04/22	03/19/25	Lopez, Jose	48	4L	neat	neat

Veritech Control/Receipt Number: 14769

Description
sulfuric acid

ApprovedBy: akmal
ApproveDate: 10/05/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9681-33	22D0862015	08/04/22	02/22/27	Lopez, Jose	18	2.5L	neat	neat

Veritech Control/Receipt Number: 14777

Description
Dichloromethane

ApprovedBy: akmal
ApproveDate: 08/16/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco/EMD	DX0831	62161	08/15/22	08/14/27	Lopez, Jose	100	4L	neat	neat

Veritech Control/Receipt Number: 15029

Description
Methyl Alcohol

ApprovedBy: akmal
ApproveDate: 01/20/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Tedia	MP1924	22080306	01/16/23	01/16/28	Lopez, Jose	6	1L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15068

Description
Chlorinated HERB.Std(For Spike)

ApprovedBy: akmal
ApproveDate: 01/27/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Agilent	HBM-545-1	0006665673	01/27/23	03/31/24	Hamid, Akmal	5	1ML	1000	PPM

Veritech Control/Receipt Number: 15069

Description
Picloram

ApprovedBy: akmal
ApproveDate: 01/27/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Agilent	EPA-1175-1	0006697804	01/27/23	09/30/23	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 15194

Description
2,4-Dichlorophenylacetic acid

ApprovedBy: akmal
ApproveDate: 04/11/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	M-8150B-SS-10X	221051049-01	04/05/23	06/17/25	Revolus, Jean	10	1ml	1000	PPM

Veritech Control/Receipt Number: 15275

Description
acetone

ApprovedBy: akmal
ApproveDate: 05/16/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Tedia	AA1111	22070110	05/15/23	07/23/24	Lopez, Jose	48	4L	neat	neat

Veritech Control/Receipt Number: 15342

Description
sodium sulfate

ApprovedBy: akmal
ApproveDate: 06/07/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Allan Corp.	6399	208404	06/05/23	06/04/28	Lopez, Jose	6	100L	neat	neat

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-395953

Prepared By: Hamid, Akmal
Description: HERB-INTER.
Prep Date: 5/19/2023
Expiration Date: 10/31/2023
Department: Organics
BatchNumber:
Concentration: 10 ppm
Final Volume: 1.5 ml
ApprovedBy: akmal
ApproveDate: 05/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14948	Method 8150 Mix-Methyl Derivative	750 ul	20 ppm	10 ppm
13873	DCAA Methyl Ester Std.	75 ul	1000 ppm	50 ppm
14344	Picloram Methyl Ester	15 ul	1000 ppm	10 ppm
15192	HEXANE	660 ul	Neat neat	neat neat

Veritech Lot Number: V-395954

Prepared By: Hamid, Akmal
Description: CAL HERB@50PPB (DANGER)
Prep Date: 5/19/2023
Expiration Date: 10/31/2023
Department: Organics
BatchNumber: B-34846
Concentration: 50 ppb
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 05/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	995 ul	Neat neat	neat neat
V-395953	HERB-INTER.	5 ul	10 ppm	50 ppm

Veritech Lot Number: V-395955

Prepared By: Hamid, Akmal
Description: CAL HERB@100PPB (DANGER)
Prep Date: 5/19/2023
Expiration Date: 10/31/2023
Department: Organics
BatchNumber: B-34846
Concentration: 100 ppb
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 05/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	990 ul	Neat neat	neat neat
V-395953	HERB-INTER.	10 ul	10 ppm	100 ppm

Veritech Lot Number: V-395956

Prepared By: Hamid, Akmal
Description: CAL HERB@200PPB (DANGER)
Prep Date: 5/19/2023
Expiration Date: 10/31/2023
Department: Organics
BatchNumber: B-34846
Concentration: 200 ppb
Final Volume: 1.5 ml
ApprovedBy: akmal
ApproveDate: 05/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	1470 ul	Neat neat	neat neat
V-395953	HERB-INTER.	30 ul	10 ppm	200 ppm

Veritech Lot Number: V-395957

Prepared By: Hamid, Akmal
Description: CAL HERB@400PPB (DANGER)
Prep Date: 5/19/2023
Expiration Date: 10/31/2023
Department: Organics
BatchNumber: B-34846
Concentration: 400 ppb
Final Volume: 1.5 ml
ApprovedBy: akmal
ApproveDate: 05/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	1440 ul	Neat neat	neat neat
V-395953	HERB-INTER.	60 ul	10 ppm	400 ppm

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-395958

Prepared By:	Hamid, Akmal	Department: Organics	ApprovedBy: akmal
Description:	CAL HERB@500PPB (DANGER)	BatchNumber: B-34846	ApproveDate: 05/23/23
Prep Date:	5/19/2023	Concentration: 500 ppb	Checked: Yes
Expiration Date:	10/31/2023	Final Volume: 1 ml	

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	950 ul	Neat neat	neat neat
V-395953	HERB-INTER.	50 ul	10 ppm	500 ppm

Veritech Lot Number: V-395959

Prepared By:	Hamid, Akmal	Department: Organics	ApprovedBy: akmal
Description:	CAL HERB@600PPB (DANGER)	BatchNumber: B-34846	ApproveDate: 05/23/23
Prep Date:	5/19/2023	Concentration: 600 ppb	Checked: Yes
Expiration Date:	10/31/2023	Final Volume: 1 ml	

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	940 ul	Neat neat	neat neat
V-395953	HERB-INTER.	60 ul	10 ppm	600 ppm

Veritech Lot Number: V-395960

Prepared By:	Hamid, Akmal	Department: Organics	ApprovedBy: akmal
Description:	ICV-HERB (DANGER)	BatchNumber:	ApproveDate: 05/23/23
Prep Date:	5/19/2023	Concentration: 200 ppb	Checked: Yes
Expiration Date:	10/31/2023	Final Volume: 2 ml	

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14341	Method 8150 Mix-Methyl Der.	20 ul	20 ppm	200 ppb
13267	DCAA Methyl Ester STD.	3.2 ul	1000 ppm	1600 ppb
14344	Picloram Methyl Ester	.4 ul	1000 ppm	200 ppb
15192	HEXANE	1976.4 ul	Neat neat	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 13267

Description
DCAA Methyl Ester STD.

ApprovedBy: akmal
ApproveDate: 05/27/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Agilent	PPS-168-1	0006492846	05/26/20	10/31/23	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 13873

Description
DCAA Methyl Ester Std.

ApprovedBy: akmal
ApproveDate: 04/14/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Agilent	PPS-168-1	0006492846	04/14/21	10/31/23	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 14341

Description
Method 8150 Mix-Methyl Der.

ApprovedBy: akmal
ApproveDate: 05/17/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
AccuStandard	M-8150M	221111508	12/06/21	12/02/25	Revolus, Jean	2	1ml	20	PPM

Veritech Control/Receipt Number: 14344

Description
Picloram Methyl Ester

ApprovedBy: akmal
ApproveDate: 12/09/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Spex	S-3110A	NA211130028	12/08/21	12/05/24	Hamid, Akmal	2	1ML	1000	PPM

Veritech Control/Receipt Number: 14948

Description
Method 8150 Mix-Methyl Derivative

ApprovedBy: jean
ApproveDate: 11/17/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	M-8150M-PAK	221111508	11/17/22	12/02/25	User, Organics	5	1ml	20	PPM

Veritech Control/Receipt Number: 15192

Description
HEXANE

ApprovedBy: akmal
ApproveDate: 04/11/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
TEDIA	HA1721	22090086	04/04/23	04/03/28	Longton, Rhys	60	4L	Neat	Neat

Metal Data

Metal Data
Sample Data

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38586-001	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	HB-1 +QA\QC	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/15/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	120	1200	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7440-36-0	Antimony	0.96	9.3	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7440-38-2	Arsenic	0.24	69	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7440-39-3	Barium	1.2	150	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7440-41-7	Beryllium	0.24	0.35	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7440-43-9	Cadmium	0.48	ND	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7440-70-2	Calcium	120	3500	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7440-47-3	Chromium	0.48	8.8	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7440-48-4	Cobalt	0.48	3.9	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7440-50-8	Copper	2.4	73	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7439-89-6	Iron	120	18000	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7439-92-1	Lead	0.48	350	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7439-95-4	Magnesium	120	380	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7439-96-5	Manganese	1.4	71	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7440-02-0	Nickel	0.72	8.2	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7440-09-7	Potassium	120	820	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7782-49-2	Selenium	2.4	14	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7440-22-4	Silver	0.24	0.27	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7440-23-5	Sodium	120	280	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7440-28-0	Thallium	0.48	1.6	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7440-62-2	Vanadium	0.24	11	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA
7440-66-6	Zinc	4.8	88	1	0.5	100	06/19/23	1078801	923ANEW	32	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38586-001	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	HB-1 +QA\QC	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/15/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.10	0.23	1	0.15	25	06/20/23	107880	H29868S	13	CV	HGCV3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38586-002	% Solid:	73	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	DUP	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/15/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	140	2200	1	0.5	100	06/19/23	1078801	923ANEW	48	MS	MS3_7700SWA
7440-36-0	Antimony	1.1	8.4	1	0.5	100	06/19/23	1078801	923ANEW	48	MS	MS3_7700SWA
7440-38-2	Arsenic	0.27	48	1	0.5	100	06/19/23	1078801	923ANEW	48	MS	MS3_7700SWA
7440-39-3	Barium	1.4	110	1	0.5	100	06/19/23	1078801	923ANEW	48	MS	MS3_7700SWA
7440-41-7	Beryllium	0.27	0.45	1	0.5	100	06/19/23	1078801	923ANEW	48	MS	MS3_7700SWA
7440-43-9	Cadmium	0.55	ND	1	0.5	100	06/19/23	1078801	923ANEW	48	MS	MS3_7700SWA
7440-70-2	Calcium	140	12000	1	0.5	100	06/19/23	1078801	923ANEW	48	MS	MS3_7700SWA
7440-47-3	Chromium	0.55	8.6	1	0.5	100	06/19/23	1078801	923ANEW	48	MS	MS3_7700SWA
7440-48-4	Cobalt	0.55	7.2	1	0.5	100	06/19/23	1078801	923ANEW	48	MS	MS3_7700SWA
7440-50-8	Copper	2.7	110	1	0.5	100	06/19/23	1078801	923ANEW	48	MS	MS3_7700SWA
7439-89-6	Iron	140	16000	1	0.5	100	06/19/23	1078801	923ANEW	48	MS	MS3_7700SWA
7439-92-1	Lead	0.55	360	1	0.5	100	06/19/23	1078801	923ANEW	48	MS	MS3_7700SWA
7439-95-4	Magnesium	140	1100	1	0.5	100	06/19/23	1078801	923ANEW	48	MS	MS3_7700SWA
7439-96-5	Manganese	1.6	130	1	0.5	100	06/19/23	1078801	923ANEW	48	MS	MS3_7700SWA
7440-02-0	Nickel	0.82	9.9	1	0.5	100	06/19/23	1078801	923ANEW	48	MS	MS3_7700SWA
7440-09-7	Potassium	140	730	1	0.5	100	06/19/23	1078801	923ANEW	48	MS	MS3_7700SWA
7782-49-2	Selenium	2.7	10	1	0.5	100	06/19/23	1078801	923ANEW	48	MS	MS3_7700SWA
7440-22-4	Silver	0.27	ND	1	0.5	100	06/19/23	1078801	923ANEW	48	MS	MS3_7700SWA
7440-23-5	Sodium	140	220	1	0.5	100	06/19/23	1078801	923ANEW	48	MS	MS3_7700SWA
7440-28-0	Thallium	0.55	1.2	1	0.5	100	06/19/23	1078801	923ANEW	48	MS	MS3_7700SWA
7440-62-2	Vanadium	0.27	11	1	0.5	100	06/19/23	1078801	923ANEW	48	MS	MS3_7700SWA
7440-66-6	Zinc	5.5	120	1	0.5	100	06/19/23	1078801	923ANEW	48	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38586-002	% Solid:	73	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	DUP	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/15/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.11	0.36	1	0.15	25	06/20/23	107880	H29868S	17	CV	HGCV3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38586-003	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	HB-2	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/15/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.96	35	1	0.5	100	06/19/23	1078801	923ANEW	49	MS	MS3_7700SWA
7440-38-2	Arsenic	1.2	190	5	0.5	100	06/19/23	1078801	923ANEW	59	MS	MS3_7700SWA
7440-41-7	Beryllium	0.24	ND	1	0.5	100	06/19/23	1078801	923ANEW	49	MS	MS3_7700SWA
7440-43-9	Cadmium	0.48	ND	1	0.5	100	06/19/23	1078801	923ANEW	49	MS	MS3_7700SWA
7440-47-3	Chromium	0.48	4.6	1	0.5	100	06/19/23	1078801	923ANEW	49	MS	MS3_7700SWA
7440-50-8	Copper	2.4	30	1	0.5	100	06/19/23	1078801	923ANEW	49	MS	MS3_7700SWA
7439-92-1	Lead	2.4	710	5	0.5	100	06/19/23	1078801	923ANEW	59	MS	MS3_7700SWA
7440-02-0	Nickel	0.72	5.0	1	0.5	100	06/19/23	1078801	923ANEW	49	MS	MS3_7700SWA
7782-49-2	Selenium	2.4	21	1	0.5	100	06/19/23	1078801	923ANEW	49	MS	MS3_7700SWA
7440-22-4	Silver	0.24	ND	1	0.5	100	06/19/23	1078801	923ANEW	49	MS	MS3_7700SWA
7440-28-0	Thallium	0.48	ND	1	0.5	100	06/19/23	1078801	923ANEW	49	MS	MS3_7700SWA
7440-66-6	Zinc	4.8	64	1	0.5	100	06/19/23	1078801	923ANEW	49	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38586-003	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	HB-2	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/15/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.10	0.82	1	0.15	25	06/20/23	107880	H29868S	18	CV	HGCV3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38586-004	% Solid:	91	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	HB-3	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/15/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.88	1.3	1	0.5	100	06/19/23	1078801	923ANEW	50	MS	MS3_7700SWA
7440-38-2	Arsenic	1.1	210	5	0.5	100	06/19/23	1078801	923ANEW	60	MS	MS3_7700SWA
7440-41-7	Beryllium	0.22	0.61	1	0.5	100	06/19/23	1078801	923ANEW	50	MS	MS3_7700SWA
7440-43-9	Cadmium	0.44	ND	1	0.5	100	06/19/23	1078801	923ANEW	50	MS	MS3_7700SWA
7440-47-3	Chromium	0.44	11	1	0.5	100	06/19/23	1078801	923ANEW	50	MS	MS3_7700SWA
7440-50-8	Copper	2.2	85	1	0.5	100	06/19/23	1078801	923ANEW	50	MS	MS3_7700SWA
7439-92-1	Lead	0.44	87	1	0.5	100	06/19/23	1078801	923ANEW	50	MS	MS3_7700SWA
7440-02-0	Nickel	0.66	15	1	0.5	100	06/19/23	1078801	923ANEW	50	MS	MS3_7700SWA
7782-49-2	Selenium	2.2	38	1	0.5	100	06/19/23	1078801	923ANEW	50	MS	MS3_7700SWA
7440-22-4	Silver	0.22	ND	1	0.5	100	06/19/23	1078801	923ANEW	50	MS	MS3_7700SWA
7440-28-0	Thallium	0.44	0.97	1	0.5	100	06/19/23	1078801	923ANEW	50	MS	MS3_7700SWA
7440-66-6	Zinc	4.4	53	1	0.5	100	06/19/23	1078801	923ANEW	50	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38586-004	% Solid:	91	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	HB-3	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/15/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.092	1.4	1	0.15	25	06/20/23	107880	H29868S	19	CV	HGCV3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38586-007	% Solid:	82	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	HB-1 +QA\QC MS	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/15/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	120	2700	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7440-36-0	Antimony	0.98	33	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7440-38-2	Arsenic	0.24	100	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7440-39-3	Barium	1.2	180	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7440-41-7	Beryllium	0.24	47	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7440-43-9	Cadmium	0.49	51	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7440-70-2	Calcium	120	11000	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7440-47-3	Chromium	0.49	63	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7440-48-4	Cobalt	0.49	57	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7440-50-8	Copper	2.4	140	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7439-89-6	Iron	120	18000	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7439-92-1	Lead	0.49	340	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7439-95-4	Magnesium	120	5800	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7439-96-5	Manganese	1.5	140	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7440-02-0	Nickel	0.73	60	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7440-09-7	Potassium	120	5600	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7782-49-2	Selenium	2.4	57	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7440-22-4	Silver	0.24	9.7	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7440-23-5	Sodium	120	5300	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7440-28-0	Thallium	0.49	39	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7440-62-2	Vanadium	0.24	63	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA
7440-66-6	Zinc	4.9	150	1	0.5	100	06/19/23	1078801	923ANEW	35	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38586-007	% Solid:	82	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	HB-1 +QA\QC MS	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/15/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.10	2.2	1	0.15	25	06/20/23	107880	H29868S	15	CV	HGCV3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38586-008	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	HB-1 +QA\QC MSD	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/15/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	120	1800	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7440-36-0	Antimony	0.96	40	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7440-38-2	Arsenic	0.24	110	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7440-39-3	Barium	1.2	170	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7440-41-7	Beryllium	0.24	46	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7440-43-9	Cadmium	0.48	44	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7440-70-2	Calcium	120	8800	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7440-47-3	Chromium	0.48	56	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7440-48-4	Cobalt	0.48	51	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7440-50-8	Copper	2.4	320	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7439-89-6	Iron	120	15000	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7439-92-1	Lead	0.48	310	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7439-95-4	Magnesium	120	5000	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7439-96-5	Manganese	1.4	110	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7440-02-0	Nickel	0.72	54	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7440-09-7	Potassium	120	5300	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7782-49-2	Selenium	2.4	57	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7440-22-4	Silver	0.24	9.1	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7440-23-5	Sodium	120	4900	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7440-28-0	Thallium	0.48	36	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7440-62-2	Vanadium	0.24	58	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA
7440-66-6	Zinc	4.8	100	1	0.5	100	06/19/23	1078801	923ANEW	36	MS	MS3_7700SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38586-008	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	HB-1 +QA\QC MSD	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/15/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.10	2.5	1	0.15	25	06/20/23	107880	H29868S	16	CV	HGCV3A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Metal Data
QC Data

FORM 2
(ICV/CCV Summary)

Date Analyzed: 06/19/23
Data File: S061923ANEW
Prep Batch: 107880
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 3061429

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-397367-9	Rec	CCV V-397371-18	Rec	CCV V-397371-30	Rec	CCV V-397371-42	Rec	CCV V-397371-54	Rec	CCV V-397371-64	Rec	Rec	Rec	Rec
Aluminum	5000/1500	5102.4500	102	1618.9380	108	1510.4860	101	1543.2890	103	1607.7000	107	1616.5670	108			
Antimony	50/50	47.22900	94	49.99000	100	49.96100	100	50.84100	102	51.03900	102	50.87500	102			
Arsenic	50/50	50.42000	101	52.15800	104	51.65300	103	52.96800	106	53.64300	107	54.77400	110			
Barium	50/50	48.73600	97	50.42400	101	50.14400	100	50.01700	100	50.12100	100	50.42600	101			
Beryllium	50/50	49.24100	98	53.54000	107	47.82400	96	48.59200	97	48.53700	97	50.43500	101			
Cadmium	50/50	49.18800	98	49.06100	98	49.10400	98	49.45400	99	49.40400	99	49.17900	98			
Calcium	5000/5000	4953.7680	99	5387.5340	108	5146.1160	103	5298.5880	106	5434.1760	109	5495.2110	110			
Chromium	50/50	48.80700	98	51.41600	103	51.25700	103	52.51700	105	54.38600	109	54.83200	110			
Cobalt	50/50	48.91400	98	50.98300	102	51.08000	102	52.42700	105	53.96300	108	54.12800	108			
Copper	50/50	50.18600	100	50.48700	101	51.50400	103	52.12000	104	54.19500	108	54.14700	108			
Iron	5000/5000	5002.1380	100	5215.7170	104	5197.4290	104	5375.4850	108	5471.3750	109	5494.4030	110			
Lead	50/50	50.15700	100	48.94400	98	48.91200	98	49.12700	98	48.64200	97	49.16800	98			
Magnesium	5000/5000	5011.9220	100	5324.0830	106	5056.4490	101	5199.5230	104	5460.6530	109	5491.6080	110			
Manganese	50/50	50.49200	101	52.65000	105	51.29900	103	52.25600	105	53.80100	108	54.45300	109			
Nickel	50/50	49.85800	100	51.52200	103	51.78500	104	53.36500	107	54.84300	110	55.11600	110			
Potassium	5000/5000	4817.6990	96	5259.5370	105	4985.6780	100	5191.7710	104	5415.4080	108	5488.0880	110			
Selenium	50/250	51.24100	102	263.75100	106	252.37100	101	257.33400	103	260.88200	104	263.68200	105			
Silver	10/50	9.69700	97	50.40400	101	50.77400	102	50.74100	101	50.88100	102	50.95700	102			
Sodium	5000/5000	4837.4720	97	5259.4640	105	4968.9370	99	5148.4000	103	5434.3990	109	5516.6040	110			
Thallium	50/50	48.64700	97	49.15000	98	49.33100	99	49.62100	99	48.67900	97	48.72300	97			
Vanadium	50/50	48.19900	96	51.97000	104	51.47400	103	53.19000	106	54.48800	109	55.18400	110			
Zinc	50/50	49.73900	99	51.05600	102	51.60900	103	52.11200	104	53.71700	107	54.07800	108			

Notes: a-indicates analyte failed the ICV limits for 6010D/6020B
b-indicates analyte failed the ICV limits for 200.7/200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010D/6020B/Hg 7470A/7471B
d-indicates analyte failed the CCV limits for Hg 7470A/7471B

Qc Limits: ICV - 200.7/245.1 (95-105)
ICV - 200.8/6010D/6020B/Hg 7470A/7471B (90-110)
CCV - 200.7/200.8/6010D/6020B/Hg 245.1/7470A/7471B (90-110)

FORM 2
LLQCS/LRS Summary)

Date Analyzed: 06/19/23
Data File: S061923ANEW
Prep Batch: 107880
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 3061429

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

Analyte	LLQCS Spike Amount	LLICV V-397372	Recovery	Low Limit	High Limit	LRS Spike Amount	LRS V-397370	Recovery	Low Limit	High Limit
Magnesium	500	471.282	94	80	120	200000	183620.619	92	90	110
Aluminum	500	493.515	99	80	120	165000	165299.804	100	90	110
Arsenic	1	0.955	96	80	120	500	498.301	100	90	110
Barium	5	4.641	93	80	120	2500	2411.037	96	90	110
Beryllium	1	0.949	95	80	120	500	472.049	94	90	110
Calcium	500	483.145	97	80	120	200000	201089.287	101	90	110
Cadmium	2	1.871	94	80	120	500	463.245	93	90	110
Cobalt	2	1.878	94	80	120	500	469.871	94	90	110
Chromium	2	1.902	95	80	120	500	496.386	99	90	110
Copper	10	9.565	96	80	120	2500	2407.432	96	90	110
Silver	1	0.903	90	80	120	500	86.699	17 a	90	110
Potassium	500	471.141	94	80	120	200000	191375.833	96	90	110
Zinc	20	19.186	96	80	120	2500	2436.950	97	90	110
Manganese	6	5.734	96	80	120	2500	2461.154	98	90	110
Molybdenum	1	1.048	105	80	120	500	486.652	97	90	110
Sodium	500	456.921	91	80	120	200000	184208.434	92	90	110
Nickel	3	2.905	97	80	120	500	470.116	94	90	110
Lead	2	1.720	86	80	120	2500	2325.454	93	90	110
Antimony	4	3.813	95	80	120	500	476.573	95	90	110
Selenium	10	9.811	98	80	120	2500	2460.923	98	90	110
Thallium	2	1.848	92	80	120	500	461.829	92	90	110
Vanadium	1	0.933	93	80	120	500	517.607	104	90	110
Iron	500	489.912	98	80	120	200000	187344.226	94	90	110

Notes: a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

FORM 2
(ICV/CCV Summary)

Date Analyzed: 06/20/23
Data File: H29868S
Prep Batch: 107880
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: HGCV3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 3061429

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV (2) V-397573-8	Rec	CCV V-397574-20	Rec	CCV V-397574-31	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Mercury	20/10	20.50000	102	10.54000	105	10.62000	106									

Notes:
a-indicates analyte failed the ICV limits for 6010D/6020B
b-indicates analyte failed the ICV limits for 200.7/200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010D/6020B/Hg 7470A/7471B
d-indicates analyte failed the CCV limits for Hg 7470A/7471B

Qc Limits:
ICV - 200.7/245.1 (95-105)
ICV - 200.8/6010D/6020B/Hg 7470A/7471B (90-110)
CCV - 200.7/200.8/6010D/6020B/Hg 245.1/7470A/7471B (90-110)

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 06/19/23
Data File: S061923ANEW
Prep Batch: 107880
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 3061429

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-397368-11	CCB V-397368-19	CCB V-397368-31	CCB V-397368-43	CCB V-397368-55	CCB V-397368-65	MB 107880-40
Aluminum	250 U	500 U	500 U	500 U	500 U	500U	50000U
Antimony	2 U	4 U	4 U	4 U	4 U	4U	400U
Arsenic	.5 U	1 U	1 U	1 U	1 U	1U	100U
Barium	2.5 U	5 U	5 U	5 U	5 U	5U	500U
Beryllium	.5 U	1 U	1 U	1 U	1 U	1U	100U
Cadmium	1 U	2 U	2 U	2 U	2 U	2U	200U
Calcium	250 U	500 U	500 U	500 U	500 U	500U	50000U
Chromium	1 U	2 U	2 U	2 U	2 U	2U	200U
Cobalt	1 U	2 U	2 U	2 U	2 U	2U	200U
Copper	5 U	10 U	10 U	10 U	10 U	10U	1000U
Iron	250 U	500 U	500 U	500 U	500 U	500U	50000U
Lead	1 U	2 U	2 U	2 U	2 U	2U	200U
Magnesium	250 U	500 U	500 U	500 U	500 U	500U	50000U
Manganese	3 U	6 U	6 U	6 U	6 U	6U	600U
Nickel	1.5 U	3 U	3 U	3 U	3 U	3U	300U
Potassium	250 U	500 U	500 U	500 U	500 U	500U	50000U
Selenium	5 U	10 U	10 U	10 U	10 U	10U	1000U
Silver	.5 U	1 U	1 U	1 U	1 U	1U	100U
Sodium	250 U	500 U	500 U	500 U	500 U	500U	50000U
Thallium	1 U	2 U	2 U	2 U	2 U	2U	200U
Vanadium	.5 U	1 U	1 U	1 U	1 U	1U	100U
Zinc	10 U	20 U	20 U	20 U	20 U	20U	2000U

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 06/20/23
Data File: H29868S
Prep Batch: 107880
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: HGCV3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 3061429

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-397575-9	CCB V-397575-21	CCB V-397575-32	MB 107880 (167)-10				
Mercury	.5 U	.5 U	.5 U	83 U				

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 06/19/23
Data File: S061923ANEW
Prep Batch: 107880
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS3_7700SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 3061429

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-397369-12	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	50000	54390.72	109							
Antimony	0	U								
Arsenic	0	U								
Barium	0	U								
Beryllium	0	U								
Cadmium	0	U								
Calcium	150000	160128.8	107							
Chromium	0	U								
Cobalt	0	U								
Copper	0	U								
Iron	125000	125590.4	100							
Lead	0	U								
Magnesium	50000	50223.24	100							
Manganese	0	U								
Nickel	0	U								
Potassium	50000	51036.55	102							
Selenium	0	U								
Silver	0	U								
Sodium	125000	125756.4	101							
Thallium	0	U								
Vanadium	0	U								
Zinc	0	U								

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

Qc Limits: 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 107880

Instrument Type: ICPMS

Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 107880

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Aluminum	107880	1	S061923A	22	6584.2820	9510	69		54	155
Antimony	107880	1	S061923A	22	65.3020	138	47		10	132
Arsenic	107880	1	S061923A	22	86.0960	99.4	87		64	119
Barium	107880	1	S061923A	22	230.5100	249	93		72	120
Beryllium	107880	1	S061923A	22	119.2780	135	88		69	115
Cadmium	107880	1	S061923A	22	66.6380	75.9	88		70	116
Calcium	107880	1	S061923A	22	6945.9020	6200	112		84	142
Chromium	107880	1	S061923A	22	43.2880	53.8	80		69	128
Cobalt	107880	1	S061923A	22	53.2930	59.9	89		70	117
Copper	107880	1	S061923A	22	142.3590	160	89		70	116
Iron	107880	1	S061923A	22	12123.9710	16800	72		45	170
Lead	107880	1	S061923A	22	66.8550	80.9	83		63	121
Magnesium	107880	1	S061923A	22	2816.1060	3040	93		70	139
Manganese	107880	1	S061923A	22	465.9970	494	94		75	120
Nickel	107880	1	S061923A	22	130.3500	143	91		65	120
Potassium	107880	1	S061923A	22	1921.5730	2260	85		61	140
Selenium	107880	1	S061923A	22	125.5540	143	88		59	119
Silver	107880	1	S061923A	22	24.6260	28.8	86		63	124
Sodium	107880	1	S061923A	22	3480.2770	3420	102		64	125
Thallium	107880	1	S061923A	22	70.5750	86.1	82		59	123
Vanadium	107880	1	S061923A	22	74.9880	92.8	81		63	129
Zinc	107880	1	S061923A	22	220.9830	244	91		66	123

TxtQcType: LCS Matrix: SOIL SampleID: LCS 107880

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Aluminum	107880	1	S061923A	21	6986.6190	9510	73		54	155
Antimony	107880	1	S061923A	21	68.9980	138	50		10	132
Arsenic	107880	1	S061923A	21	91.8910	99.4	92		64	119
Barium	107880	1	S061923A	21	232.1080	249	93		72	120
Beryllium	107880	1	S061923A	21	126.7050	135	94		69	115
Cadmium	107880	1	S061923A	21	66.8430	75.9	88		70	116
Calcium	107880	1	S061923A	21	7315.2850	6200	118		84	142
Chromium	107880	1	S061923A	21	44.9510	53.8	84		69	128
Cobalt	107880	1	S061923A	21	55.1890	59.9	92		70	117
Copper	107880	1	S061923A	21	146.7020	160	92		70	116
Iron	107880	1	S061923A	21	12668.7070	16800	75		45	170
Lead	107880	1	S061923A	21	68.9630	80.9	85		63	121
Magnesium	107880	1	S061923A	21	2876.4670	3040	95		70	139
Manganese	107880	1	S061923A	21	491.3890	494	99		75	120
Nickel	107880	1	S061923A	21	134.2860	143	94		65	120
Potassium	107880	1	S061923A	21	1931.5370	2260	85		61	140
Selenium	107880	1	S061923A	21	132.1910	143	92		59	119
Silver	107880	1	S061923A	21	24.8600	28.8	86		63	124
Sodium	107880	1	S061923A	21	3457.7310	3420	101		64	125
Thallium	107880	1	S061923A	21	72.2710	86.1	84		59	123
Vanadium	107880	1	S061923A	21	78.2110	92.8	84		63	129
Zinc	107880	1	S061923A	21	225.8550	244	93		66	123

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 107880

Instrument Type: ICPMS
Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: MSD Matrix: SOIL SampleID: AD38586-008

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Aluminum	107880	1	S061923A	36	S061923A	32	7443.6300	4981.2010	2500	98		75	125
Antimony	107880	1	S061923A	36	S061923A	32	164.5790	38.7880	250	50	a	75	125
Arsenic	107880	1	S061923A	36	S061923A	32	453.2850	288.2860	250	66	a	75	125
Barium	107880	1	S061923A	36	S061923A	32	725.6080	618.5750	250	43	a	75	125
Beryllium	107880	1	S061923A	36	S061923A	32	191.2480	1.4590	250	76		75	125
Cadmium	107880	1	S061923A	36	S061923A	32	183.3910	2U	250	73	a	75	125
Calcium	107880	1	S061923A	36	S061923A	32	36361.5770	14463.7630	25000	88		75	125
Chromium	107880	1	S061923A	36	S061923A	32	233.1430	36.6810	250	79		75	125
Cobalt	107880	1	S061923A	36	S061923A	32	213.0030	16.0990	250	79		75	125
Copper	107880	1	S061923A	36	S061923A	32	1326.0670	301.1300	250	410	a	75	125
Iron	107880	1	S061923A	36	S061923A	32	63574.4670	76721.6490	2500	-530	b	75	125
Lead	107880	1	S061923A	36	S061923A	32	1269.3740	1436.1310	250	-67	b	75	125
Magnesium	107880	1	S061923A	36	S061923A	32	20545.2040	1589.8260	25000	76		75	125
Manganese	107880	1	S061923A	36	S061923A	32	436.4750	296.2470	250	56	a	75	125
Nickel	107880	1	S061923A	36	S061923A	32	223.4400	33.8300	250	76		75	125
Potassium	107880	1	S061923A	36	S061923A	32	21859.2210	3404.6130	25000	74	a	75	125
Selenium	107880	1	S061923A	36	S061923A	32	237.6740	58.5290	250	72	a	75	125
Silver	107880	1	S061923A	36	S061923A	32	37.9520	1.1390	50	74	a	75	125
Sodium	107880	1	S061923A	36	S061923A	32	20329.6910	1170.9730	25000	77		75	125
Thallium	107880	1	S061923A	36	S061923A	32	147.6650	6.7530	250	56	a	75	125
Vanadium	107880	1	S061923A	36	S061923A	32	239.0090	44.6840	250	78		75	125
Zinc	107880	1	S061923A	36	S061923A	32	428.3150	366.1660	250	25	a	75	125

TxtQcType: MS Matrix: SOIL SampleID: AD38586-007

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Aluminum	107880	1	S061923A	35	S061923A	32	10965.0510	4981.2010	2500	239	a	75	125
Antimony	107880	1	S061923A	35	S061923A	32	134.0800	38.7880	250	38	a	75	125
Arsenic	107880	1	S061923A	35	S061923A	32	424.8960	288.2860	250	55	a	75	125
Barium	107880	1	S061923A	35	S061923A	32	740.4590	618.5750	250	49	a	75	125
Beryllium	107880	1	S061923A	35	S061923A	32	193.8900	1.4590	250	77		75	125
Cadmium	107880	1	S061923A	35	S061923A	32	208.5820	2U	250	83		75	125
Calcium	107880	1	S061923A	35	S061923A	32	46739.5320	14463.7630	25000	129	a	75	125
Chromium	107880	1	S061923A	35	S061923A	32	259.5490	36.6810	250	89		75	125
Cobalt	107880	1	S061923A	35	S061923A	32	235.6320	16.0990	250	88		75	125
Copper	107880	1	S061923A	35	S061923A	32	569.5830	301.1300	250	107		75	125
Iron	107880	1	S061923A	35	S061923A	32	74825.8280	76721.6490	2500	-76	b	75	125
Lead	107880	1	S061923A	35	S061923A	32	1402.0980	1436.1310	250	-14	b	75	125
Magnesium	107880	1	S061923A	35	S061923A	32	23937.4510	1589.8260	25000	89		75	125
Manganese	107880	1	S061923A	35	S061923A	32	554.0760	296.2470	250	103		75	125
Nickel	107880	1	S061923A	35	S061923A	32	247.1510	33.8300	250	85		75	125
Potassium	107880	1	S061923A	35	S061923A	32	23113.2510	3404.6130	25000	79		75	125
Selenium	107880	1	S061923A	35	S061923A	32	234.9210	58.5290	250	71	a	75	125
Silver	107880	1	S061923A	35	S061923A	32	39.7960	1.1390	50	77		75	125
Sodium	107880	1	S061923A	35	S061923A	32	21801.3810	1170.9730	25000	83		75	125
Thallium	107880	1	S061923A	35	S061923A	32	159.9200	6.7530	250	61	a	75	125
Vanadium	107880	1	S061923A	35	S061923A	32	258.4320	44.6840	250	85		75	125
Zinc	107880	1	S061923A	35	S061923A	32	617.9010	366.1660	250	101		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 107880

Instrument Type: ICPMS

Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS | Matrix: SOIL | SampleID: AD38586-001

Analyte	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Aluminum	1	S061923A	37	S061923A	32	6529.6970	4981.2010	1550	100		75	125
Antimony	1	S061923A	37	S061923A	32	89.2760	38.7880	50	101		75	125
Arsenic	1	S061923A	37	S061923A	32	337.4380	288.2860	50	98		75	125
Barium	1	S061923A	37	S061923A	32	653.2290	618.5750	50	69	b	75	125
Beryllium	1	S061923A	37	S061923A	32	47.6390	1.4590	50	92		75	125
Cadmium	1	S061923A	37	S061923A	32	47.8790	2U	50	96		75	125
Calcium	1	S061923A	37	S061923A	32	19490.0830	14463.7630	5000	101		75	125
Chromium	1	S061923A	37	S061923A	32	87.3670	36.6810	50	101		75	125
Cobalt	1	S061923A	37	S061923A	32	66.2860	16.0990	50	100		75	125
Copper	1	S061923A	37	S061923A	32	344.2200	301.1300	50	86		75	125
Iron	1	S061923A	37	S061923A	32	80108.5350	76721.6490	5000	68	b	75	125
Lead	1	S061923A	37	S061923A	32	1445.7490	1436.1310	50	19	b	75	125
Magnesium	1	S061923A	37	S061923A	32	6738.6530	1589.8260	5000	103		75	125
Manganese	1	S061923A	37	S061923A	32	342.9490	296.2470	50	93		75	125
Nickel	1	S061923A	37	S061923A	32	84.6230	33.8300	50	102		75	125
Potassium	1	S061923A	37	S061923A	32	8419.5540	3404.6130	5000	100		75	125
Selenium	1	S061923A	37	S061923A	32	302.3820	58.5290	250	98		75	125
Silver	1	S061923A	37	S061923A	32	49.1510	1.1390	50	96		75	125
Sodium	1	S061923A	37	S061923A	32	6315.9240	1170.9730	5000	103		75	125
Thallium	1	S061923A	37	S061923A	32	54.3600	6.7530	50	95		75	125
Vanadium	1	S061923A	37	S061923A	32	96.2330	44.6840	50	103		75	125
Zinc	1	S061923A	37	S061923A	32	411.9190	366.1660	50	92		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 107880

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 107880

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Mercury	107880	1	H29868S	12	22.5400	34.32	66		42	110

TxtQcType: LCS Matrix: SOIL SampleID: LCS 107880

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Mercury	107880	1	H29868S	11	22.6900	34.32	66		42	110

TxtQcType: MSD Matrix: SOIL SampleID: AD38586-008

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Mercury	107880	1	H29868S	16	H29868S	13	12.6000	1.1690	10	114		80	120

TxtQcType: MS Matrix: SOIL SampleID: AD38586-007

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Mercury	107880	1	H29868S	15	H29868S	13	10.6500	1.1690	10	95		80	120

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 107880

Instrument Type: ICPMS

Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR | Matrix: SOIL | SampleID: LCS MR 107880

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Aluminum	107880	S061923A	22	S061923A	21	6584.2820	6986.6190	5.9		20
Antimony	107880	S061923A	22	S061923A	21	65.3020	68.9980	5.5		20
Arsenic	107880	S061923A	22	S061923A	21	86.0960	91.8910	6.5		20
Barium	107880	S061923A	22	S061923A	21	230.5100	232.1080	.69		20
Beryllium	107880	S061923A	22	S061923A	21	119.2780	126.7050	6		20
Cadmium	107880	S061923A	22	S061923A	21	66.6380	66.8430	.31		20
Calcium	107880	S061923A	22	S061923A	21	6945.9020	7315.2850	5.2		20
Chromium	107880	S061923A	22	S061923A	21	43.2880	44.9510	3.8		20
Cobalt	107880	S061923A	22	S061923A	21	53.2930	55.1890	3.5		20
Copper	107880	S061923A	22	S061923A	21	142.3590	146.7020	3		20
Iron	107880	S061923A	22	S061923A	21	12123.9710	12668.7070	4.4		20
Lead	107880	S061923A	22	S061923A	21	66.8550	68.9630	3.1		20
Magnesium	107880	S061923A	22	S061923A	21	2816.1060	2876.4670	2.1		20
Manganese	107880	S061923A	22	S061923A	21	465.9970	491.3890	5.3		20
Nickel	107880	S061923A	22	S061923A	21	130.3500	134.2860	3		20
Potassium	107880	S061923A	22	S061923A	21	1921.5730	1931.5370	.52		20
Selenium	107880	S061923A	22	S061923A	21	125.5540	132.1910	5.2		20
Silver	107880	S061923A	22	S061923A	21	24.6260	24.8600	.95		20
Sodium	107880	S061923A	22	S061923A	21	3480.2770	3457.7310	.65		20
Thallium	107880	S061923A	22	S061923A	21	70.5750	72.2710	2.4		20
Vanadium	107880	S061923A	22	S061923A	21	74.9880	78.2110	4.2		20
Zinc	107880	S061923A	22	S061923A	21	220.9830	225.8550	2.2		20

TxtQcType: MR | Matrix: SOIL | SampleID: AD38586-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Aluminum	107880	S061923A	33	S061923A	32	9929.6050	4981.2010	66	a	20
Antimony	107880	S061923A	33	S061923A	32	35.7060	38.7880	8.3		20
Arsenic	107880	S061923A	33	S061923A	32	194.8520	288.2860	39	a	20
Barium	107880	S061923A	33	S061923A	32	542.9690	618.5750	13		20
Beryllium	107880	S061923A	33	S061923A	32	1.6320	1.4590	11		20
Cadmium	107880	S061923A	33	S061923A	32	2U	2U	---		20
Calcium	107880	S061923A	33	S061923A	32	19164.4620	14463.7630	28	a	20
Chromium	107880	S061923A	33	S061923A	32	38.2590	36.6810	4.2		20
Cobalt	107880	S061923A	33	S061923A	32	45.3880	16.0990	95	a	20
Copper	107880	S061923A	33	S061923A	32	259.7640	301.1300	15		20
Iron	107880	S061923A	33	S061923A	32	85983.3120	76721.6490	11		20
Lead	107880	S061923A	33	S061923A	32	1113.8450	1436.1310	25	a	20
Magnesium	107880	S061923A	33	S061923A	32	4364.6550	1589.8260	93	a	20
Manganese	107880	S061923A	33	S061923A	32	1468.7050	296.2470	133	a	20
Nickel	107880	S061923A	33	S061923A	32	52.6490	33.8300	44	a	20
Potassium	107880	S061923A	33	S061923A	32	3130.7920	3404.6130	8.4		20
Selenium	107880	S061923A	33	S061923A	32	39.3090	58.5290	39	b	20
Silver	107880	S061923A	33	S061923A	32	1U	1.1390	---		20
Sodium	107880	S061923A	33	S061923A	32	1015.9330	1170.9730	14		20
Thallium	107880	S061923A	33	S061923A	32	5.6540	6.7530	18		20
Vanadium	107880	S061923A	33	S061923A	32	45.7960	44.6840	2.5		20
Zinc	107880	S061923A	33	S061923A	32	495.2180	366.1660	30	a	20

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 107880

Instrument Type: ICPMS

Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: MSD | Matrix: SOIL | SampleID: AD38586-008

Analyte	BatchId	Data File	Seq#:	MS File	Seq#	Result 1	Result 2	RPD		Limit
Aluminum	107880	S061923A	36	S061923A	35	7443.6300	10965.0510	38	a	20
Antimony	107880	S061923A	36	S061923A	35	164.5790	134.0800	20		20
Arsenic	107880	S061923A	36	S061923A	35	453.2850	424.8960	6.5		20
Barium	107880	S061923A	36	S061923A	35	725.6080	740.4590	2		20
Beryllium	107880	S061923A	36	S061923A	35	191.2480	193.8900	1.4		20
Cadmium	107880	S061923A	36	S061923A	35	183.3910	208.5820	13		20
Calcium	107880	S061923A	36	S061923A	35	36361.5770	46739.5320	25	a	20
Chromium	107880	S061923A	36	S061923A	35	233.1430	259.5490	11		20
Cobalt	107880	S061923A	36	S061923A	35	213.0030	235.6320	10		20
Copper	107880	S061923A	36	S061923A	35	1326.0670	569.5830	80	a	20
Iron	107880	S061923A	36	S061923A	35	63574.4670	74825.8280	16		20
Lead	107880	S061923A	36	S061923A	35	1269.3740	1402.0980	9.9		20
Magnesium	107880	S061923A	36	S061923A	35	20545.2040	23937.4510	15		20
Manganese	107880	S061923A	36	S061923A	35	436.4750	554.0760	24	a	20
Nickel	107880	S061923A	36	S061923A	35	223.4400	247.1510	10		20
Potassium	107880	S061923A	36	S061923A	35	21859.2210	23113.2510	5.6		20
Selenium	107880	S061923A	36	S061923A	35	237.6740	234.9210	1.2		20
Silver	107880	S061923A	36	S061923A	35	37.9520	39.7960	4.7		20
Sodium	107880	S061923A	36	S061923A	35	20329.6910	21801.3810	7		20
Thallium	107880	S061923A	36	S061923A	35	147.6650	159.9200	8		20
Vanadium	107880	S061923A	36	S061923A	35	239.0090	258.4320	7.8		20
Zinc	107880	S061923A	36	S061923A	35	428.3150	617.9010	36	a	20

TxtQcType: SD | Matrix: SOIL | SampleID: AD38586-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff	Limit
Aluminum	107880	S061923A	34	S061923A	32	5	1059.1040	4981.2010	6.3	20
Antimony	107880	S061923A	34	S061923A	32	5	8.1930	38.7880	5.6	20
Arsenic	107880	S061923A	34	S061923A	32	5	61.2010	288.2860	6.1	20
Barium	107880	S061923A	34	S061923A	32	5	132.7460	618.5750	7.3	20
Beryllium	107880	S061923A	34	S061923A	32	5	0.3180	1.4590	9	20
Cadmium	107880	S061923A	34	S061923A	32	5	0.2500	1.1540	8.3	20
Calcium	107880	S061923A	34	S061923A	32	5	3033.8240	14463.7630	4.9	20
Chromium	107880	S061923A	34	S061923A	32	5	7.5430	36.6810	2.8	20
Cobalt	107880	S061923A	34	S061923A	32	5	3.3560	16.0990	4.2	20
Copper	107880	S061923A	34	S061923A	32	5	60.2790	301.1300	0.088	20
Iron	107880	S061923A	34	S061923A	32	5	16056.2360	76721.6490	4.6	20
Lead	107880	S061923A	34	S061923A	32	5	312.0210	1436.1310	8.6	20
Magnesium	107880	S061923A	34	S061923A	32	5	333.5980	1589.8260	4.9	20
Manganese	107880	S061923A	34	S061923A	32	5	60.0590	296.2470	1.4	20
Nickel	107880	S061923A	34	S061923A	32	5	7.0560	33.8300	4.3	20
Potassium	107880	S061923A	34	S061923A	32	5	703.3280	3404.6130	3.3	20
Selenium	107880	S061923A	34	S061923A	32	5	13.2530	58.5290	13	20
Silver	107880	S061923A	34	S061923A	32	5	0.2420	1.1390	6.2	20
Sodium	107880	S061923A	34	S061923A	32	5	221.5200	1170.9730	5.4	20
Thallium	107880	S061923A	34	S061923A	32	5	1.4520	6.7530	7.5	20
Vanadium	107880	S061923A	34	S061923A	32	5	9.2270	44.6840	3.2	20
Zinc	107880	S061923A	34	S061923A	32	5	81.5260	366.1660	11	20

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 107880

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: SOIL SampleID: LCS MR 107880

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Mercury	107880	H29868S	12	H29868S	11	22.5400	22.6900	.66		20

TxtQcType: MR Matrix: SOIL SampleID: AD38586-001

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Mercury	107880	H29868S	14	H29868S	13	1.4880	1.1690	24	b	20

TxtQcType: MSD Matrix: SOIL SampleID: AD38586-008

Analyte	BatchId	Data File	Seq#:	MS File	Seq#	Result 1	Result 2	RPD	Limit
Mercury	107880	H29868S	16	H29868S	15	12.6000	10.6500	17	20

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

Metal Data
Verification of Instrument Parameters

MDL/RL
Method 6020/6020A
Combined 2022
SOIL

ELEMENT	MDL (MG/KG)	Reporting Limits (MG/KG)
Al	3.4579	100
Sb	0.1082	0.8
AS	0.0940	0.2
BA	0.1003	1
BE	0.0316	0.2
CA	20.5147	100
CD	0.0385	0.4
CR	0.1610	0.4
CO	0.0182	0.4
CU	0.8945	2
FE	5.6894	100
PB	0.0520	0.4
MG	3.1240	100
MN	0.6636	1.2
MO	0.0572	0.2
NA	21.6786	100
Ni	0.2513	0.6
K	9.1953	100
Se	0.3717	2
Ag	0.0945	0.2
TL	0.0276	0.4
V	0.0481	0.2
Zn	2.4703	4

MDL/RL 2022 SUMMARY SHEET HgCV3 & HgCV4

Element: *Mercury*
Instrument: *PE FIMS 100*
Technique: *CV*

Instrument ID: HgCV3 & 4
Analyst: Jazmine Leary

200 Series	METHOD	MDL	RL	COMPLETED
		ppb	*ppb*	
H20	**245.1**	0.157	0.20	12/30/2022

SW846	METHOD	MDL	RL	COMPLETED
		ppb	*ppb*	
H2O	**7470A**	0.098	0.50	12/30/2022
SOIL	**7471 B**	0.119	0.50	12/30/2022
			0.0833 mg/kg	
		0.0198 mg/kg		

completed 12/30/2022
24 months data from 01/2021 to 12/2022

Metal Data
Raw Data

Form1

Inorganic Analysis Data Sheet

Sample ID: MB 107880 % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 107880 Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	50	ND	1	0.5	100	06/19/23	107880	1923ANEW	40	MS	IS3_7700SWA
7440-36-0	Antimony	0.40	ND	1	0.5	100	06/19/23	107880	1923ANEW	40	MS	IS3_7700SWA
7440-38-2	Arsenic	0.10	ND	1	0.5	100	06/19/23	107880	1923ANEW	40	MS	IS3_7700SWA
7440-39-3	Barium	0.50	ND	1	0.5	100	06/19/23	107880	1923ANEW	40	MS	IS3_7700SWA
7440-41-7	Beryllium	0.10	ND	1	0.5	100	06/19/23	107880	1923ANEW	40	MS	IS3_7700SWA
7440-43-9	Cadmium	0.20	ND	1	0.5	100	06/19/23	107880	1923ANEW	40	MS	IS3_7700SWA
7440-70-2	Calcium	50	ND	1	0.5	100	06/19/23	107880	1923ANEW	40	MS	IS3_7700SWA
7440-47-3	Chromium	0.20	ND	1	0.5	100	06/19/23	107880	1923ANEW	40	MS	IS3_7700SWA
7440-48-4	Cobalt	0.20	ND	1	0.5	100	06/19/23	107880	1923ANEW	40	MS	IS3_7700SWA
7440-50-8	Copper	1.0	ND	1	0.5	100	06/19/23	107880	1923ANEW	40	MS	IS3_7700SWA
7439-89-6	Iron	50	ND	1	0.5	100	06/19/23	107880	1923ANEW	40	MS	IS3_7700SWA
7439-92-1	Lead	0.20	ND	1	0.5	100	06/19/23	107880	1923ANEW	40	MS	IS3_7700SWA
7439-95-4	Magnesium	50	ND	1	0.5	100	06/19/23	107880	1923ANEW	40	MS	IS3_7700SWA
7439-96-5	Manganese	0.60	ND	1	0.5	100	06/19/23	107880	1923ANEW	40	MS	IS3_7700SWA
7439-98-7	Molybdenum	0.10	ND	1	0.5	100	06/19/23	107880	1923ANEW	40	MS	IS3_7700SWA
7440-02-0	Nickel	0.30	ND	1	0.5	100	06/19/23	107880	1923ANEW	40	MS	IS3_7700SWA
7440-09-7	Potassium	50	ND	1	0.5	100	06/19/23	107880	1923ANEW	40	MS	IS3_7700SWA
7782-49-2	Selenium	1.0	ND	1	0.5	100	06/19/23	107880	1923ANEW	40	MS	IS3_7700SWA
7440-22-4	Silver	0.10	ND	1	0.5	100	06/19/23	107880	1923ANEW	40	MS	IS3_7700SWA
7440-23-5	Sodium	50	ND	1	0.5	100	06/19/23	107880	1923ANEW	40	MS	IS3_7700SWA
7440-28-0	Thallium	0.20	ND	1	0.5	100	06/19/23	107880	1923ANEW	40	MS	IS3_7700SWA
7440-62-2	Vanadium	0.10	ND	1	0.5	100	06/19/23	107880	1923ANEW	40	MS	IS3_7700SWA
7440-66-6	Zinc	2.0	ND	1	0.5	100	06/19/23	107880	1923ANEW	40	MS	IS3_7700SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID: MB 107880 (167) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 107880 (167) Units: MG/KG Lab Code:
Matrix: SOIL
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.083	ND	1	0.15	25	06/20/23	107880	H29868S	10	CV	HGCV3A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14784

Description
LCS SOIL (LOT#249)

ApprovedBy: shiamala
ApproveDate: 10/14/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/Cont	Conc:	Units:
PHENOVA	QC-MET-SOIL	7086-04C	06/30/22	09/30/24	Aliano, Carmela	50	10g	NEAT	NEAT

Veritech Control/Receipt Number: 14857

Description
Calibration 1

ApprovedBy: shiamala
ApproveDate: 10/14/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/Cont	Conc:	Units:
SPEX	XHCV-19-500	3-094AJ	07/30/22	07/30/23	Aliano, Carmela	2	500m	NEAT	NEAT

Veritech Control/Receipt Number: 14858

Description
CALIBRATION 2

ApprovedBy: shiamala
ApproveDate: 10/14/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/Cont	Conc:	Units:
SPEX	XHCV-20-500	3-095AJ	07/30/22	07/30/23	Aliano, Carmela	2	500m	NEAT	NEAT

Veritech Control/Receipt Number: 15214

Description
Hydrogen Peroxide

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/Cont	Conc:	Units:
Ricca	3821.7-1	4304H01	04/18/23	08/31/24	Cousineau, Paul	4	L	neat	neat

Veritech Control/Receipt Number: 15243

Description
nitric acid

ApprovedBy: jean
ApproveDate: 05/05/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/Cont	Conc:	Units:
J.T.Baker	9606-03	23B0262006	04/28/23	01/12/28	Cajuste, Pierre	6	2.5L	neat	neat

Veritech Control/Receipt Number: 15244

Description
Hydrochloric Acid

ApprovedBy: akmal
ApproveDate: 06/13/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/Cont	Conc:	Units:
J . T , BAKER	9539-05	23B1462010	04/28/23	08/17/24	Cajuste, Pierre	16	2.5 L	Neat	Neat

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-394699

Prepared By: Leary, Jazmine
Description: B, Si, Ce INTERMEDIATE
Prep Date: 6/12/2023
Expiration Date: 6/30/2023
Department: Metals
BatchNumber:
Concentration: 100 ppm
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 05/03/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14736	DI H2O			
14990	nitric acid	5 ml	neat neat	
14988	hydrochloric acid	5 ml	neat neat	
14639	Boron	10 ml	1000 ug/ml	100 ppm
14638	Silicon	10 ml	1000 ug/ml	100 ppm
15058	Cerium	10 ml	1000 ppm	100 ppm

Veritech Lot Number: V-396398

Prepared By: Cousineau, Paul
Description: 1:1 HNO3 WARNING
Prep Date: 5/31/2023
Expiration Date: 7/17/2023
Department: Metals
BatchNumber:
Concentration: Reagent reag
Final Volume: 1000 ml
ApprovedBy: shiamala
ApproveDate: 05/31/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14736	DI H2O	500 ml		
15243	nitric acid	500 ml	neat neat	

Veritech Lot Number: V-396455

Prepared By: Cousineau, Paul
Description: 6020 CALIBRATION STOCK
Prep Date: 6/1/2023
Expiration Date: 9/1/2023
Department: Metals
BatchNumber:
Concentration: VARIOUS pp
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 06/02/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14990	nitric acid	2 ml	neat neat	
15332	Aluminum	.725 ml	10000 ug/ml	72.5
15334	Calcium	2.5 ml	10000 ug/ml	250
15335	Iron	2.5 ml	10000 ug/ml	250
15331	Magnesium	2.5 ml	10000 ug/ml	250
15330	Potassium	2.5 ml	10000 ug/ml	250
15333	Sodium	2.5 ml	10000 ug/ml	250
15302	Selenium 1000ppm	1 ml	1000 mg/l	10
15216	6020 Cal Std.	12.5 ml	multi ug/ml	2.5

Veritech Lot Number: V-396470

Prepared By: Cousineau, Paul
Description: Antimony Intermediate 1PPM
Prep Date: 6/1/2023
Expiration Date: 12/1/2023
Department: Metals
BatchNumber:
Concentration: 1000 ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 06/02/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14990	nitric acid	2.5 ml	neat neat	
15340	DI H2O			
15311	Antimony 1000ppm	.1 ml	1000 md/l	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-397361

Prepared By:	Cousineau, Paul	Department:	Metals	ApprovedBy:	shiamala
Description:	Cal Blk WARNING	BatchNumber:	B-34963	ApproveDate:	06/20/23
Prep Date:	6/15/2023	Concentration:	0 ppb	Checked:	Yes
Expiration Date:	6/22/2023	Final Volume:	100 ml		

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14990	nitric acid	2.5 ml	neat neat	
14988	hydrochloric acid	.5 ml	neat neat	

Veritech Lot Number: V-397362

Prepared By:	Cousineau, Paul	Department:	Metals	ApprovedBy:	shiamala
Description:	Cal Std-1 WARNING	BatchNumber:	B-34963	ApproveDate:	06/20/23
Prep Date:	6/15/2023	Concentration:	various ppb	Checked:	Yes
Expiration Date:	6/22/2023	Final Volume:	100 ml		

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14990	nitric acid	2.5 ml	neat neat	
14988	hydrochloric acid	.5 ml	neat neat	
V-396455	6020 CALIBRATION STOCK	.02 ml	VARIOUS p	

Veritech Lot Number: V-397363

Prepared By:	Cousineau, Paul	Department:	Metals	ApprovedBy:	shiamala
Description:	Cal Std-2 WARNING	BatchNumber:	B-34963	ApproveDate:	06/20/23
Prep Date:	6/15/2023	Concentration:	various ppb	Checked:	Yes
Expiration Date:	6/22/2023	Final Volume:	100 ml		

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14990	nitric acid	2.5 ml	neat neat	
V-396455	6020 CALIBRATION STOCK	.2 ml	VARIOUS p	
14988	hydrochloric acid	.5 ml	neat neat	

Veritech Lot Number: V-397364

Prepared By:	Cousineau, Paul	Department:	Metals	ApprovedBy:	shiamala
Description:	Cal Std-3 WARNING	BatchNumber:	B-34963	ApproveDate:	06/20/23
Prep Date:	6/15/2023	Concentration:	various ppb	Checked:	Yes
Expiration Date:	6/22/2023	Final Volume:	100 ml		

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14990	nitric acid	2.5 ml	neat neat	
V-396455	6020 CALIBRATION STOCK	.4 ml	VARIOUS p	
14988	hydrochloric acid	.5 ml	neat neat	

Veritech Lot Number: V-397365

Prepared By:	Cousineau, Paul	Department:	Metals	ApprovedBy:	shiamala
Description:	Cal Std-4 WARNING	BatchNumber:	B-34963	ApproveDate:	06/20/23
Prep Date:	6/15/2023	Concentration:	various ppb	Checked:	Yes
Expiration Date:	6/22/2023	Final Volume:	100 ml		

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14990	nitric acid	2.5 ml	neat neat	
V-396455	6020 CALIBRATION STOCK	2 ml	VARIOUS p	
14988	hydrochloric acid	.5 ml	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-397366

Prepared By:	Cousineau, Paul	Department:	Metals	ApprovedBy:	shiamala
Description:	Cal Std-5 WARNING	BatchNumber:	B-34963	ApproveDate:	06/20/23
Prep Date:	6/15/2023	Concentration:	various ppb	Checked:	Yes
Expiration Date:	6/22/2023	Final Volume:	100 ml		

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14990	nitric acid	2.5 ml	neat neat	
V-396455	6020 CALIBRATION STOCK	4 ml	VARIOUS p	
14988	hydrochloric acid	.5 ml	neat neat	

Veritech Lot Number: V-397367

Prepared By:	Cousineau, Paul	Department:	Metals	ApprovedBy:	shiamala
Description:	ICV WARNING	BatchNumber:	B-34963	ApproveDate:	06/20/23
Prep Date:	6/15/2023	Concentration:	various ppb	Checked:	Yes
Expiration Date:	6/22/2023	Final Volume:	100 ml		

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14990	nitric acid	2.5 ml	neat neat	
14748	6020 ICV (Ag ONLY)	.1 ml	NEAT neat	
14747	6020 ICV	.1 ml	NEAT neat	
14988	hydrochloric acid	.5 ml	neat neat	

Veritech Lot Number: V-397368

Prepared By:	Cousineau, Paul	Department:	Metals	ApprovedBy:	shiamala
Description:	ICB/CCB WARNING	BatchNumber:	B-34963	ApproveDate:	06/20/23
Prep Date:	6/15/2023	Concentration:	0 ppb	Checked:	Yes
Expiration Date:	6/22/2023	Final Volume:	100 ml		

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14990	nitric acid	2.5 ml	neat neat	
14988	hydrochloric acid	.5 ml	neat neat	

Veritech Lot Number: V-397369

Prepared By:	Cousineau, Paul	Department:	Metals	ApprovedBy:	shiamala
Description:	ICSA WARNING	BatchNumber:	B-34963	ApproveDate:	06/20/23
Prep Date:	6/15/2023	Concentration:	various ppb	Checked:	Yes
Expiration Date:	6/22/2023	Final Volume:	50 ml		

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14963	Interferents A	2.5 ml	multi mg/l	
14990	nitric acid	1.25 ml	neat neat	
14988	hydrochloric acid	.25 ml	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-397370

Prepared By:	Cousineau, Paul	Department:	Metals	ApprovedBy:	shiamala
Description:	LRS WARNING	BatchNumber:	B-34963	ApproveDate:	06/20/23
Prep Date:	6/15/2023	Concentration:	various ppb	Checked:	Yes
Expiration Date:	6/22/2023	Final Volume:	50 ml		

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14990	nitric acid	1.25 ml	neat neat	2.5 %
V-396455	6020 CALIBRATION STOCK	10 ml	VARIOUS p	
14988	hydrochloric acid	.25 ml	neat neat	
15332	Aluminum	.75 ml	10000 ug/ml	
15330	Potassium	.75 ml	10000 ug/ml	
15333	Sodium	.75 ml	10000 ug/ml	
15334	Calcium	.75 ml	10000 ug/ml	
15331	Magnesium	.75 ml	10000 ug/ml	
15335	Iron	.75 ml	10000 ug/ml	
15306	Copper 1000ppm	.1 ml	1000 mg/l	
15307	Manganese 1000ppm	.1 ml	1000 mg/l	
15304	Lead 1000ppm	.1 ml	1000 mg/l	
15305	Barium 1000ppm	.1 ml	1000 mg/l	
15303	Zinc 1000ppm	.1 ml	1000 mg/l	

Veritech Lot Number: V-397371

Prepared By:	Cousineau, Paul	Department:	Metals	ApprovedBy:	shiamala
Description:	CCV WARNING	BatchNumber:	B-34963	ApproveDate:	06/20/23
Prep Date:	6/15/2023	Concentration:	various ppb	Checked:	Yes
Expiration Date:	6/22/2023	Final Volume:	100 ml		

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14990	nitric acid	2.5 ml	neat neat	
V-396455	6020 CALIBRATION STOCK	2 ml	VARIOUS p	
14988	hydrochloric acid	.5 ml	neat neat	

Veritech Lot Number: V-397372

Prepared By:	Cousineau, Paul	Department:	Metals	ApprovedBy:	shiamala
Description:	LL-ICV/CCV SOIL WARNING	BatchNumber:	B-34963	ApproveDate:	06/20/23
Prep Date:	6/15/2023	Concentration:	various ppb	Checked:	Yes
Expiration Date:	6/22/2023	Final Volume:	100 ml		

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14990	nitric acid	2.5 ml	neat neat	
15221	LL-ICV SOIL	1 ml	multi ug/ml	
V-396470	Antimony Intermediate 1PPM	.3 ml	1000 ppb	
14988	hydrochloric acid	.5 ml	neat neat	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14638

Description
Silicon

ApprovedBy: shiamala
ApproveDate: 12/27/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volum e/Cont	Conc:	Units:
SPEX	PLS19-2X	26-102SIX	06/10/22	06/30/23	Balashanthan, Sh	1	500m	1000	ug/ml

Veritech Control/Receipt Number: 14639

Description
Boron

ApprovedBy: shiamala
ApproveDate: 12/27/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volum e/Cont	Conc:	Units:
SPEX	PLB9-2X	26-99BX	06/10/22	06/30/23	Balashanthan, Sh	1	500m	1000	ug/ml

Veritech Control/Receipt Number: 14736

Description
DI H2O

ApprovedBy: janee
ApproveDate: 08/01/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volum e/Cont	Conc:	Units:
EVOQUA	1	1	07/18/22	07/17/23	Trivedi, Beena	1			

Veritech Control/Receipt Number: 14747

Description
6020 ICV

ApprovedBy: carmela
ApproveDate: 07/25/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volum e/Cont	Conc:	Units:
SCP SCIENCE	600-225-112	S220627007	07/25/22	07/30/23	Aliano, Carmela	1		NEAT	NEAT

Veritech Control/Receipt Number: 14748

Description
6020 ICV (Ag ONLY)

ApprovedBy: carmela
ApproveDate: 07/25/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volum e/Cont	Conc:	Units:
SCP SCIENCE	600-225-113	S220627008	07/25/22	07/30/23	Aliano, Carmela	1		NEAT	NEAT

Veritech Control/Receipt Number: 14963

Description
Interferents A

ApprovedBy: shiamala
ApproveDate: 12/23/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volum e/Cont	Conc:	Units:
spex	CL-INT-A1	CL7-219-MYF	11/30/22	11/30/23	Cousineau, Paul	1	125m	multi	Mg/l

Veritech Control/Receipt Number: 14988

Description
hydrochloric acid

ApprovedBy: jessica
ApproveDate: 04/29/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volum e/Cont	Conc:	Units:
J.T.Baker	9539-05	22I2362001	12/15/22	03/28/24	Lopez, Jose	12	2.5L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14990

Description
nitric acid

ApprovedBy: shiamala
ApproveDate: 12/23/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/Cont	Conc:	Units:
J.T.Baker	9606-03	22H2562003	12/15/22	07/13/27	Lopez, Jose	18	2.5L	neat	neat

Veritech Control/Receipt Number: 15058

Description
Cerium

ApprovedBy: shiamala
ApproveDate: 01/25/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/Cont	Conc:	Units:
SPEX	PLCE2-2X	26-111CEX	01/25/23	01/30/24	Balashanthan, Sh	2	500m	1000	ppm

Veritech Control/Receipt Number: 15216

Description
6020 Cal Std.

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/Cont	Conc:	Units:
SPEX	CL-CAL-1	CL51-322CRY	04/19/23	04/30/24	Cousineau, Paul	1	125m	multi	ug/ml

Veritech Control/Receipt Number: 15221

Description
LL-ICV SOIL

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/Cont	Conc:	Units:
SPEX	ZHCV-13-100	9-144AJ	04/20/23	04/30/24	Cousineau, Paul	1	125m	multi	ug/ml

Veritech Control/Receipt Number: 15243

Description
nitric acid

ApprovedBy: jean
ApproveDate: 05/05/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/Cont	Conc:	Units:
J.T.Baker	9606-03	23B0262006	04/28/23	01/12/28	Cajuste, Pierre	6	2.5L	neat	neat

Veritech Control/Receipt Number: 15302

Description
Selenium 1000ppm

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/Cont	Conc:	Units:
SPEX	PLSE2-2Y	26-124SEY	05/30/23	05/30/24	Cousineau, Paul	1	125m	1000	mg/l

Veritech Control/Receipt Number: 15303

Description
Zinc 1000ppm

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/Cont	Conc:	Units:
SPEX	PLZN2-2Y	27-22ZNY	05/30/23	05/30/24	Cousineau, Paul	1	125m	1000	mg/l

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15304

Description
Lead 1000ppm

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volum e/Cont	Conc:	Units:
SPEX	PLPB2-2Y	27-05PBY	05/30/23	05/30/24	Cousineau, Paul	1	125m	1000	mg/l

Veritech Control/Receipt Number: 15304

Description
Barium 1000ppm

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volum e/Cont	Conc:	Units:
SPEX	PLBA2-2Y	2725BAY	05/30/23	05/30/24	Cousineau, Paul	1	125	1000	mg/l

Veritech Control/Receipt Number: 15304

Description
Copper 1000ppm

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volum e/Cont	Conc:	Units:
SPEX	PLCU2-2Y	2739CUY	05/30/23	05/30/24	Cousineau, Paul	1	125	1000	mg/l

Veritech Control/Receipt Number: 15304

Description
Manganese 1000ppm

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volum e/Cont	Conc:	Units:
SPEX	PLMN2-2Y	26-157MNY	05/30/23	05/30/24	Cousineau, Paul	1	125	1000	mg/l

Veritech Control/Receipt Number: 15311

Description
Antimony 1000ppm

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volum e/Cont	Conc:	Units:
SPEX	PLSB7-2Y	27-03SBY	05/30/23	05/30/24	Cousineau, Paul	1	125	1000	md/l

Veritech Control/Receipt Number: 1531[illegible]

Description
Potassium

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volum e/Cont	Conc:	Units:
SPEX	PLK2-3X	BB19-123KX	05/30/23	05/30/24	Cousineau, Paul	1	500m	10000	ug/ml

Veritech Control/Receipt Number: 15311

Description
Magnesium

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volum e/Cont	Conc:	Units:
SPEX	PLMG2-3X	AT19-143MGX	05/30/23	05/30/24	Cousineau, Paul	1	500m	10000	ug/ml

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15332

Description
Aluminum

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/Cont	Conc:	Units:
SPEX	PLAL2-3X	AT19-140ALX	05/30/23	05/30/24	Cousineau, Paul	1	500m	10000	ug/ml

Veritech Control/Receipt Number: 15333

Description
Sodium

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/Cont	Conc:	Units:
SPEX	PLNA2-3X	AW19-142NAX	05/30/23	05/30/24	Cousineau, Paul	1	500m	10000	ug/ml

Veritech Control/Receipt Number: 15334

Description
Calcium

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/Cont	Conc:	Units:
SPEX	PLCA2-3X	BD19-108CAX	05/30/23	05/30/24	Cousineau, Paul	1	500m	10000	ug/ml

Veritech Control/Receipt Number: 15335

Description
Iron

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/Cont	Conc:	Units:
SPEX	PLFE2-3X	AU19-70FEX	05/30/23	05/30/24	Cousineau, Paul	1	500m	10000	ug/ml

Veritech Control/Receipt Number: 15340

Description
DI H2O

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/Cont	Conc:	Units:
EVOQUA	1	1	06/01/23	06/01/24	Cousineau, Paul	1			

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14784

Description
LCS SOIL (LOT#249)

ApprovedBy: shiamala
ApproveDate: 10/14/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
PHENOVA	QC-MET-SOIL	7086-04C	06/30/22	09/30/24	Aliano, Carmela	50	10g	NEAT	NEAT

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-397560

Prepared By: Silva, Amanda
Description: Hg Intermediate Standard -WARNING
Prep Date: 6/18/2023
Expiration Date: 6/18/2023
Department: Metals
BatchNumber: B-34978
Concentration: .25 ppm
Final Volume: 500 ml
ApprovedBy: shiamala
ApproveDate: 06/20/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14386	MERCURY	.125 ml	1000	
15243	nitric acid	12.5 ml	neat neat	
15340	DI H2O			

Veritech Lot Number: V-397561

Prepared By: Silva, Amanda
Description: Hg intermediate Control -WARNING
Prep Date: 6/18/2023
Expiration Date: 6/18/2023
Department: Metals
BatchNumber: B-34978
Concentration: 1.0 ppm
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 06/20/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15059	Mercury	.1 ul	1000 ppm	
15243	nitric acid	2.5 ml	neat neat	
15340	DI H2O			

Veritech Lot Number: V-397572

Prepared By: Silva, Amanda
Description: Aquaregia
Prep Date: 6/18/2023
Expiration Date: 6/18/2023
Department: Metals
BatchNumber: B-34980
Concentration: 0 neat
Final Volume: 80 ml
ApprovedBy: shiamala
ApproveDate: 06/20/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15243	nitric acid	20 ml	neat neat	
15244	Hydrochloric Acid	60 ml	Neat neat	

Veritech Lot Number: V-397573

Prepared By: Silva, Amanda
Description: Hg Soil ICV Soil
Prep Date: 6/18/2023
Expiration Date: 6/18/2023
Department: Metals
BatchNumber: B-34980
Concentration: 20 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 06/20/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397561	Hg intermediate Control -WARNING	.5 ml	1.0 ppm	
15340	DI H2O			

Veritech Lot Number: V-397574

Prepared By: Silva, Amanda
Description: Hg soil CCV 10ppb
Prep Date: 6/18/2023
Expiration Date: 6/18/2023
Department: Metals
BatchNumber: B-34980
Concentration: 10 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 06/20/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397561	Hg intermediate Control -WARNING	.25 ml	1.0 ppm	
15340	DI H2O			

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-397575

Prepared By: Silva, Amanda | Department: Metals | ApprovedBy: shiamala
Description: Hg soil standard blk | BatchNumber: B-34980 | ApproveDate: 06/20/23
Prep Date: 6/18/2023 | Concentration: 0 ppm | Checked: Yes
Expiration Date: 6/18/2023 | Final Volume: 25 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			

Veritech Lot Number: V-397576

Prepared By: Silva, Amanda | Department: Metals | ApprovedBy: shiamala
Description: Hg soil standard .5 ppb | BatchNumber: B-34980 | ApproveDate: 06/20/23
Prep Date: 6/18/2023 | Concentration: .5 ppb | Checked: Yes
Expiration Date: 6/18/2023 | Final Volume: 25 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397560	Hg Intermediate Standard -WARNING	.05 ml	.25 ppm	
15340	DI H2O			

Veritech Lot Number: V-397577

Prepared By: Silva, Amanda | Department: Metals | ApprovedBy: shiamala
Description: Hg soil standard 1 ppb | BatchNumber: B-34980 | ApproveDate: 06/20/23
Prep Date: 6/18/2023 | Concentration: 1 ppb | Checked: Yes
Expiration Date: 6/18/2023 | Final Volume: 25 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397560	Hg Intermediate Standard -WARNING	.1 ml	.25 ppm	
15340	DI H2O			

Veritech Lot Number: V-397578

Prepared By: Silva, Amanda | Department: Metals | ApprovedBy: shiamala
Description: Hg soil standard 2 ppb | BatchNumber: B-34980 | ApproveDate: 06/20/23
Prep Date: 6/18/2023 | Concentration: 2 ppb | Checked: Yes
Expiration Date: 6/18/2023 | Final Volume: 25 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397560	Hg Intermediate Standard -WARNING	.2 ml	.25 ppm	
15340	DI H2O			

Veritech Lot Number: V-397579

Prepared By: Silva, Amanda | Department: Metals | ApprovedBy: shiamala
Description: Hg soil standard 5 ppb | BatchNumber: B-34980 | ApproveDate: 06/20/23
Prep Date: 6/18/2023 | Concentration: 5 ppb | Checked: Yes
Expiration Date: 6/18/2023 | Final Volume: 25 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397560	Hg Intermediate Standard -WARNING	.5 ml	.25 ppm	
15340	DI H2O			

Veritech Lot Number: V-397580

Prepared By: Silva, Amanda | Department: Metals | ApprovedBy: shiamala
Description: Hg soil standard 10 ppb | BatchNumber: B-34980 | ApproveDate: 06/20/23
Prep Date: 6/18/2023 | Concentration: 10 ppb | Checked: Yes
Expiration Date: 6/18/2023 | Final Volume: 25 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397560	Hg Intermediate Standard -WARNING	1 ml	.25 ppm	
15340	DI H2O			

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-397581

Prepared By:	Silva, Amanda	Department:	Metals	ApprovedBy:	shiamala
Description:	Hg soil standard 25 ppb	BatchNumber:	B-34980	ApproveDate:	06/20/23
Prep Date:	6/18/2023	Concentration:	25 ppb	Checked:	Yes
Expiration Date:	6/18/2023	Final Volume:	25 ml		

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397560	Hg Intermediate Standard -WARNING	2.5 ml	.25 ppm	
15340	DI H2O			

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14386

Description
MERCURY

ApprovedBy: carmela
ApproveDate: 07/25/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SCP Science	140-051-801	S210729017	01/03/22	07/30/23	Aliano, Carmela	1	125m	1000	

Veritech Control/Receipt Number: 15059

Description
Mercury

ApprovedBy: shiamala
ApproveDate: 01/25/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLHG4-2Y	26-57HGY	01/25/23	01/30/24	Balashanthan, Shi	2	125ml	1000	ppm

Veritech Control/Receipt Number: 15243

Description
nitric acid

ApprovedBy: jean
ApproveDate: 05/05/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9606-03	23B0262006	04/28/23	01/12/28	Cajuste, Pierre	6	2.5L	neat	neat

Veritech Control/Receipt Number: 15244

Description
Hydrochloric Acid

ApprovedBy: akmal
ApproveDate: 06/13/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J . T , BAKER	9539-05	23B1462010	04/28/23	08/17/24	Cajuste, Pierre	16	2.5 L	Neat	Neat

Veritech Control/Receipt Number: 15340

Description
DI H2O

ApprovedBy: jessica
ApproveDate: 06/25/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
EVOQUA	1	1	06/01/23	06/01/24	Cousineau, Paul	1			

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-393823

Prepared By: Concordo, Joel
Description: 5% Potassium Permanganate WARNIN
Prep Date: 4/18/2023
Expiration Date: 7/17/2023
Department: Metals
BatchNumber:
Concentration: reagent reage
Final Volume: 20 l
ApprovedBy: shiamala
ApproveDate: 04/25/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14736	DI H2O			
14463	Potassium Permanganate	1000 g	neat neat	

Veritech Lot Number: V-395509

Prepared By: Leary, Jazmine
Description: Hydroxylamine Hydrochloride WARNIN
Prep Date: 5/16/2023
Expiration Date: 7/17/2023
Department: Metals
BatchNumber:
Concentration: reagent reage
Final Volume: 10 l
ApprovedBy: shiamala
ApproveDate: 05/26/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14736	DI H2O			
14484	Sodium Chloride	1200 g	NEAT neat	
14938	Hydroxylamine Hydrochloride	1200 g	neat kg	

Veritech Lot Number: V-397287

Prepared By: Leary, Jazmine
Description: 3% HCL WARNING
Prep Date: 6/14/2023
Expiration Date: 12/14/2023
Department: WetChem
BatchNumber:
Concentration: 3 %
Final Volume: 10 l
ApprovedBy: shiamala
ApproveDate: 06/20/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15244	Hydrochloric Acid	300 ml	Neat neat	3%
15340	DI H2O			

Veritech Lot Number: V-397561

Prepared By: Silva, Amanda
Description: Hg intermediate Control -WARNING
Prep Date: 6/18/2023
Expiration Date: 6/18/2023
Department: Metals
BatchNumber: B-34978
Concentration: 1.0 ppm
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 06/20/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15059	Mercury	.1 ul	1000 ppm	
15243	nitric acid	2.5 ml	neat neat	
15340	DI H2O			

Veritech Lot Number: V-397682

Prepared By: Leary, Jazmine
Description: SnCl2 "WARNING:"
Prep Date: 6/20/2023
Expiration Date: 6/20/2023
Department: Metals
BatchNumber:
Concentration: reagent l
Final Volume: 2 l
ApprovedBy: shiamala
ApproveDate: 06/20/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397287	3% HCL WARNING	2000 ml	3 %	
15212	Stannous Chloride	26.4 g	neat kg	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14463

Description
Potassium Permanganate

ApprovedBy: carmela
ApproveDate: 07/25/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Laboratory Sales	LC-T10208	200812-C	02/28/22	02/28/32	Cousineau, Paul	1	2.5kG	neat	neat

Veritech Control/Receipt Number: 14484

Description
Sodium Chloride

ApprovedBy: carmela
ApproveDate: 07/25/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
EMD	LS-1559300	20I165203	03/10/22	04/01/26	Cousineau, Paul	1	12kg	NEAT	NEAT

Veritech Control/Receipt Number: 14736

Description
DI H2O

ApprovedBy: janee
ApproveDate: 08/01/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
EVOQUA	1	1	07/18/22	07/17/23	Trivedi, Beena	1			

Veritech Control/Receipt Number: 14938

Description
Hydroxylamine Hydrochloride

ApprovedBy: shiamala
ApproveDate: 12/23/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Lab Sales	LS-1580015	220317-2C	11/16/22	11/16/23	Leary, Jazmine	1	2.5 K	neat	Kg

Veritech Control/Receipt Number: 15059

Description
Mercury

ApprovedBy: shiamala
ApproveDate: 01/25/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLHG4-2Y	26-57HGY	01/25/23	01/30/24	Balashanthan, Shi	2	125ml	1000	ppm

Veritech Control/Receipt Number: 15212

Description
Stannous Chloride

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Lab Sales	LC-P33805	221209-1A	04/01/23	04/30/24	Cousineau, Paul	3	KG	neat	KG

Veritech Control/Receipt Number: 15243

Description
nitric acid

ApprovedBy: jean
ApproveDate: 05/05/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9606-03	23B0262006	04/28/23	01/12/28	Cajuste, Pierre	6	2.5L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15244

Description
Hydrochloric Acid

ApprovedBy: akmal
ApproveDate: 06/13/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J . T , BAKER	9539-05	23B1462010	04/28/23	08/17/24	Cajuste, Pierre	16	2.5 L	Neat	Neat

Veritech Control/Receipt Number: 15340

Description
DI H2O

ApprovedBy: jessica
ApproveDate: 06/25/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
EVOQUA	1	1	06/01/23	06/01/24	Cousineau, Paul	1			

ICPMS Internal Standard Summary Report

TuneID: 1

Batch/FileID: S061923AN Sample ID: CalBlk V-397361 Sample Date 06/19/23 Sample Time: 10:41

IS ID	Are	Area Limit		
Ho-1	2203645.30	1542551.71	-	2864738.89
In-1	1904177.00	1332923.9	-	2475430.1
Sc-1	1473315.27	1031320.689	-	1915309.851
Tb-1	2301159.10	1610811.37	-	2991506.83

QcType	txtSamId:	Po	Ho-1 Area	In-1 Area	Sc-1 Area	Tb-1 Area		Area	Area	Area	Area
ISBLK	CalBlk V-397361	3	2203645.	1904177.	1473315.	2301159.					
SMP	RINSE	1	2064597.	1802809.	1339524.	2155923.					
SMP	RINSE	2	2092128.	1811858.	1366502.	2177974.					
CAL	CalStd1 V-39736	4	2123398.	1818135.	1415219.	2212014.					
CAL	CalStd2 V-39736	5	2202732.	1901055.	1489494.	2307124.					
CAL	CalStd3 V-39736	6	2212437.	1894629.	1496190.	2315949.					
CAL	CalStd4 V-39736	7	2179905.	1856212.	1507118.	2273851.					
CAL	CalStd5 V-39736	8	2145166.	1808816.	1463453.	2240618.					
ICV	ICV V-397367	9	2191109.	1876374.	1438082.	2292162.					
LLICV	LLICV V-397372	10	2209439.	1894852.	1428896.	2306983.					
ICB	ICB V-397368	11	2223367.	1921159.	1475747.	2314006.					
ICSA	ICSA V-397369	12	2126659.	1754803.	1560696.	2224123.					
SMP	RINSE	13	2131523.	1904314.	1409272.	2235478.					
LRS	LRS V-397370	14	2011660.	1674176.	1483181.	2088475.					
SMP	RINSE	15	2093793.	1875814.	1424419.	2187172.					
SMP	RINSE	16	2058311.	1851542.	1443999.	2169912.					
SMP	RINSE	17	2066461.	1842313.	1452195.	2145562.					
CCV	CCV V-397371	18	2221363.	1966833.	1640156.	2332904.					
CCB	CCB V-397368	19	2294982.	2017286.	1515331.	2380693.					
MB	MB 107880	20	2296366.	2003243.	1583569.	2386802.					
LCS	LCS 107880	21	2378363.	2047470.	1820572.	2522186.					
MR	LCS MR 107880	22	2375796.	2060309.	1790784.	2500519.					
SMP	AD38629-001	23	2403744.	2035888.	1940254.	2510235.	*				
SMP	AD38629-002	24	2388876.	1982304.	1902409.	2497401.					
SMP	AD38629-003	25	2421065.	2010029.	1856118.	2518186.					
SMP	AD38629-004	26	2540980.	1991471.	1838770.	2616558.					
SMP	AD38629-005	27	2440642.	2047340.	2183816.	2545896.	*				
SMP	AD38571-016	28	2457092.	1989240.	2055353.	2542987.	*				
SMP	RINSE	29	2211193.	1960140.	1423644.	2348871.					
CCV	CCV V-397371	30	2285059.	1989757.	1554331.	2390361.					
CCB	CCB V-397368	31	2310546.	2015879.	1494370.	2428352.					
SMP	AD38586-001	32	2399474.	2104712.	2064299.	2529265.	*				
MR	AD38586-001	33	2440941.	2070683.	2079012.	2572259.	*				
SD	AD38586-001	34	2271208.	2012202.	1587188.	2383816.					
MS	AD38586-007	35	2391315.	2058924.	2016317.	2515462.	*				
MSD	AD38586-008	36	2340477.	2081711.	1898952.	2470394.					
PS	AD38586-001	37	2382762.	2066104.	1966299.	2495560.	*				
SMP	AD38629-002	38	2254513.	1970267.	1519682.	2373756.					
SMP	AD38629-004	39	2247117.	1970492.	1499636.	2334874.					
MB	MB 107880	40	2292154.	2021234.	1501082.	2399916.					
SMP	RINSE	41	2175345.	1958211.	1454386.	2284484.					
CCV	CCV V-397371	42	2298963.	1998417.	1621189.	2415303.					
CCB	CCB V-397368	43	2237117.	1946912.	1473726.	2363365.					
SMP	AD38622-041	44	2557115.	2090255.	3018725.	2690481.	*				
SMP	AD38622-042	45	2573354.	2119482.	2549109.	2711473.	*				
SMP	AD38622-043	46	2551207.	2069311.	3033779.	2658052.	*				
SMP	AD38622-044	47	2584669.	2088031.	2696926.	2683933.	*				
SMP	AD38586-002	48	2510700.	2114388.	2041485.	2621534.	*				

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 1

SMP	AD38586-003	49	2408492.	2145692.	2031304.	*	2545802.
SMP	AD38586-004	50	2619361.	2136451.	2633044.	*	2729881.
SMP	AD38617-007	51	2476254.	2081074.	2072556.	*	2607498.
SMP	AD38617-008	52	2497294.	2109149.	2037235.	*	2610563.
SMP	RINSE	53	2299810.	2036799.	1508723.		2402232.
CCV	CCV V-397371	54	2373875.	2058774.	1617113.		2467383.
CCB	CCB V-397368	55	2377897.	2089133.	1590841.		2508258.
SMP	AD38617-009	56	2524771.	2109739.	2512976.	*	2632353.
SMP	AD38617-010	57	2478881.	2118825.	2044859.	*	2627736.
SMP	AD38622-042	58	2387565.	2073307.	1776714.		2516341.
SMP	AD38586-003	59	2359593.	2068617.	1707022.		2483643.
SMP	AD38586-004	60	2377446.	2087206.	1819948.		2481843.
SMP	AD38589-008	61	2315604.	2062450.	1665997.		2417292.
SMP	AD38589-017	62	2278251.	2072743.	1637929.		2387542.
SMP	RINSE	63	2202057.	1995678.	1507160.		2340102.
CCV	CCV V-397371	64	2314981.	2051523.	1618296.		2436673.
CCB	CCB V-397368	65	2336587.	2076871.	1593863.		2467190.

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 2

Batch/FileID: S061923AN Sample ID: CalBlk V-397361 Sample Date 06/19/23 Sample Time: 10:41

IS ID	Are	Area Limit		
Ho-2	1300813.96	910569.772	-	1691058.148
In-2	427600.15	299320.105	-	555880.195
Sc-2	51569.96	36098.972	-	67040.948
Tb-2	1322531.32	925771.924	-	1719290.716

QcType	txtSamId:	Po	Ho-2 Area	In-2 Area	Sc-2 Area	Tb-2 Area		Area	Area	Area	Area
ISBLK	CalBlk V-397361	3	1300813.	427600.1	51569.96	1322531.					
SMP	RINSE	1	1268205.	420231.1	48426.34	1289445.					
SMP	RINSE	2	1277963.	425192.2	49259.38	1292958.					
CAL	CalStd1 V-39736	4	1303999.	424940.6	50996.23	1324321.					
CAL	CalStd2 V-39736	5	1322109.	428746.8	51190.45	1335880.					
CAL	CalStd3 V-39736	6	1317837.	426507.1	51896.33	1338713.					
CAL	CalStd4 V-39736	7	1306802.	420393.2	51572.35	1326540.					
CAL	CalStd5 V-39736	8	1313237.	418782.8	50734.71	1325433.					
ICV	ICV V-397367	9	1329642.	427583.1	50732.21	1343190.					
LLICV	LLICV V-397372	10	1330871.	435833.4	50613.32	1348166.					
ICB	ICB V-397368	11	1312657.	431889.2	51952.24	1330057.					
ICSA	ICSA V-397369	12	1297689.	412447.9	55605.86	1311540.					
SMP	RINSE	13	1326036.	456344.9	53381.88	1344706.					
LRS	LRS V-397370	14	1256536.	422310.5	59897.96	1274102.					
SMP	RINSE	15	1344067.	480647.7	58045.57	1365955.					
SMP	RINSE	16	1329034.	479182.7	58208.28	1352291.					
SMP	RINSE	17	1320798.	477679.2	59238.00	1342978.					
CCV	CCV V-397371	18	1368849.	472278.3	60605.58	1390209.					
CCB	CCB V-397368	19	1355635.	467712.3	57403.58	1374039.					
MB	MB 107880	20	1349669.	468739.6	57909.38	1372120.					
LCS	LCS 107880	21	1406681.	472819.6	65449.41	1431306.					
MR	LCS MR 107880	22	1400337.	475396.9	64250.05	1425915.					
SMP	AD38629-001	23	1385658.	451333.8	67268.96	*	1398588.				
SMP	AD38629-002	24	1366929.	433017.7	67549.08	*	1380967.				
SMP	AD38629-003	25	1359650.	427172.1	64221.95		1364553.				
SMP	AD38629-004	26	1423416.	429536.2	63354.87		1417598.				
SMP	AD38629-005	27	1363212.	442405.3	75221.94	*	1378020.				
SMP	AD38571-016	28	1376286.	418945.0	70497.16	*	1372909.				
SMP	RINSE	29	1303345.	443531.8	51675.05		1321839.				
CCV	CCV V-397371	30	1313876.	435921.0	52442.55		1338240.				
CCB	CCB V-397368	31	1291702.	431809.4	51649.26		1319323.				
SMP	AD38586-001	32	1357743.	450625.6	71330.41	*	1371307.				
MR	AD38586-001	33	1360505.	441769.3	72268.69	*	1383440.				
SD	AD38586-001	34	1313946.	441306.6	55815.68		1330157.				
MS	AD38586-007	35	1329197.	437924.9	68650.61	*	1343217.				
MSD	AD38586-008	36	1320486.	444366.8	64789.38		1334695.				
PS	AD38586-001	37	1344187.	442668.7	69180.50	*	1358435.				
SMP	AD38629-002	38	1312576.	434294.9	54382.35		1341931.				
SMP	AD38629-004	39	1305310.	439764.2	52966.01		1314499.				
MB	MB 107880	40	1283461.	431926.2	52251.13		1302909.				
SMP	RINSE	41	1277210.	438324.0	52194.02		1298395.				
CCV	CCV V-397371	42	1297315.	433335.3	54918.77		1316638.				
CCB	CCB V-397368	43	1290918.	434633.8	53294.87		1307662.				
SMP	AD38622-041	44	1378751.	435056.0	104455.8	*	1439642.				
SMP	AD38622-042	45	1390155.	440033.8	89315.87	*	1462216.				
SMP	AD38622-043	46	1362813.	429715.9	104134.4	*	1381431.				
SMP	AD38622-044	47	1394296.	429173.9	95115.08	*	1403693.				
SMP	AD38586-002	48	1329175.	430612.1	69407.99	*	1349192.				

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 2

SMP	AD38586-003	49	1304678.	440377.6	68692.94	*	1323764.
SMP	AD38586-004	50	1389910.	438244.5	90822.06	*	1453659.
SMP	AD38617-007	51	1302833.	421092.4	69737.68	*	1328733.
SMP	AD38617-008	52	1315700.	425083.9	68560.21	*	1363802.
SMP	RINSE	53	1260038.	430888.2	52573.02		1283655.
CCV	CCV V-397371	54	1283448.	431921.7	55050.06		1298366.
CCB	CCB V-397368	55	1266125.	429517.2	54122.97		1284760.
SMP	AD38617-009	56	1327599.	426614.0	84514.43	*	1352571.
SMP	AD38617-010	57	1327607.	428674.5	68690.50	*	1342658.
SMP	AD38622-042	58	1308258.	441971.3	62174.16		1333496.
SMP	AD38586-003	59	1304514.	447893.7	59915.75		1316169.
SMP	AD38586-004	60	1316084.	445543.5	64196.26		1335125.
SMP	AD38589-008	61	1285163.	441308.5	57879.77		1309817.
SMP	AD38589-017	62	1279009.	452584.1	57935.22		1296437.
SMP	RINSE	63	1255284.	441092.2	53231.47		1280726.
CCV	CCV V-397371	64	1276204.	429524.9	54884.72		1296008.
CCB	CCB V-397368	65	1262917.	431796.9	54632.01		1282269.

* Indicates Internal Standard Area outside of limits

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\MS3_7700SWA\S061923ANEW.txt

Analysis Date: 06/19/23 **Instrument:**MS3_7700SWA

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
RINSE	1	NA	10:32	1	PPMETAL-6020	SOIL	SOIL	SW846	107880		0
RINSE	1	NA	10:36	2	PPMETAL-6020	SOIL	SOIL	SW846	107880		0
CalBlk V-397361	1	ISBLK	10:41	3		SOIL	SOIL				V-397361(Cal Blk WARNING)
CalStd1 V-397362	1	CAL	10:45	4							V-397362(Cal Std-1 WARNING)
CalStd2 V-397363	1	CAL	10:50	5							V-397363(Cal Std-2 WARNING)
CalStd3 V-397364	1	CAL	10:54	6							V-397364(Cal Std-3 WARNING)
CalStd4 V-397365	1	CAL	10:59	7							V-397365(Cal Std-4 WARNING)
CalStd5 V-397366	1	CAL	11:03	8							V-397366(Cal Std-5 WARNING)
ICV V-397367	1	ICV	11:07	9							V-397367(ICV WARNING)
LLICV V-397372	1	LLICV	11:12	10	PPMETAL-6020	SOIL	SOIL	SW846	107880		V-397372(LL-ICV/CCV SOIL WARNING)
ICB V-397368	1	ICB	11:16	11							V-397368(ICB/CCB WARNING)
ICSA V-397369	1	ICSA	11:21	12							V-397369(ICSA WARNING)
RINSE	1	NA	11:25	13	PPMETAL-6020	SOIL	SOIL	SW846	107880		0
LRS V-397370	1	LRS	11:30	14	PPMETAL-6020	SOIL	SOIL	SW846	107880	Ag fail.	V-397370(LRS WARNING)
RINSE	1	NA	11:34	15	PPMETAL-6020	SOIL	SOIL	SW846	107880		0
RINSE	1	NA	11:39	16	PPMETAL-6020	SOIL	SOIL	SW846	107880		0
RINSE	1	NA	11:43	17	PPMETAL-6020	SOIL	SOIL	SW846	107880		0
CCV V-397371	1	CCV	11:48	18							V-397371(CCV WARNING)
CCB V-397368	1	CCB	11:52	19							V-397368(ICB/CCB WARNING)
MB 107880	1	NA	11:56	20	PPMETAL-6020	SOIL	SOIL	SW846	107880		0
LCS 107880	1	LCS	12:01	21	PPMETAL-6020	SOIL	SOIL	SW846	107880		0
LCS MR 107880	1	LCS	12:05	22	PPMETAL-6020	SOIL	SOIL	SW846	107880		0
AD38629-001	1	SMP	12:10	23	MET-1-6020	SOIL	SOIL	SW846	107880		0
AD38629-002	1	SMP	12:14	24	MET-TAL6020S	SOIL	SOIL	SW846	107880	Rerun Pb (LR).	0
AD38629-003	1	SMP	12:18	25	MET-TAL6020S	SOIL	SOIL	SW846	107880		0
AD38629-004	1	SMP	12:23	26	MET-TAL6020S	SOIL	SOIL	SW846	107880	Rerun V, Zn (LR).	0
AD38629-005	1	SMP	12:27	27	MET-TAL6020S	SOIL	SOIL	SW846	107880		0
AD38571-016	1	SMP	12:32	28	MET-TAL6020S	SOIL	SOIL	SW846	107880		0
RINSE	1	NA	12:36	29	PPMETAL-6020	SOIL	SOIL	SW846	107880		0
CCV V-397371	1	CCV	12:40	30							V-397371(CCV WARNING)
CCB V-397368	1	CCB	12:45	31							V-397368(ICB/CCB WARNING)
AD38586-001	1	SMP	12:49	32	MET-TAL6020S	SOIL	SOIL	SW846	107880		0
AD38586-001	1	MR	12:54	33	MET-TAL6020S	SOIL	SOIL	SW846	107880		0
AD38586-001	5	SD	12:58	34	MET-TAL6020S	SOIL	SOIL	SW846	107880		0
AD38586-007	1	MS	13:03	35	MET-TAL6020S	SOIL	SOIL	SW846	107880		0
AD38586-008	1	MSD	13:07	36	MET-TAL6020S	SOIL	SOIL	SW846	107880		0
AD38586-001	1	PS	13:11	37	MET-TAL6020S	SOIL	SOIL	SW846	107880		0
AD38629-002	5	SMP	13:15	38	MET-TAL6020S	SOIL	SOIL	SW846	107880	Report Pb.	0
AD38629-004	10	SMP	13:20	39	MET-TAL6020S	SOIL	SOIL	SW846	107880	Report V, Zn.	0
MB 107880	1	MB	13:24	40	PPMETAL-6020	SOIL	SOIL	SW846	107880		0
RINSE	1	NA	13:29	41	PPMETAL-6020	SOIL	SOIL	SW846	107880		0
CCV V-397371	1	CCV	13:33	42							V-397371(CCV WARNING)
CCB V-397368	1	CCB	13:38	43							V-397368(ICB/CCB WARNING)
AD38622-041	1	SMP	13:42	44	MET-2-6020	SOIL	SOIL	SW846	107880		0
AD38622-042	1	SMP	13:46	45	MET-2-6020	SOIL	SOIL	SW846	107880	Rerun Pb (LR).	0
AD38622-043	1	SMP	13:51	46	MET-2-6020	SOIL	SOIL	SW846	107880		0
AD38622-044	1	SMP	13:55	47	MET-2-6020	SOIL	SOIL	SW846	107880		0
AD38586-002	1	SMP	14:00	48	MET-TAL6020S	SOIL	SOIL	SW846	107880		0
AD38586-003	1	SMP	14:04	49	PPMETAL-6020	SOIL	SOIL	SW846	107880	Rerun As, Pb (LR).	0
AD38586-004	1	SMP	14:08	50	PPMETAL-6020	SOIL	SOIL	SW846	107880	Rerun As (LR).	0
AD38617-007	1	SMP	14:13	51	MET-TAL6020S	SOIL	SOIL	SW846	107880		0
AD38617-008	1	SMP	14:17	52	MET-TAL6020S	SOIL	SOIL	SW846	107880		0
RINSE	1	NA	14:22	53	PPMETAL-6020	SOIL	SOIL	SW846	107880		0

Comments/Reviewedby:

pcousineau
192.168.1.19 6/19/2023 4:16:27 PM

B-29860 Report Ba for 38589-008. Report Mn, Ni, Pb, Zn for 38589-017.
B-29868 Report TAL. LRS fail for Ag. Ag Lr = 100ppb.
Reran Pb for 38622-042, 38629-002 (LR), Reran As, Pb for 38586-003 (LR).
Reran As for 38586-004 (LR), Reran V, Zn for 38629-004 (LR). PC.

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor: 20 6/18/23

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\MS3_7700SWA\S061923ANEW.txt

Analysis Date: 06/19/23

Instrument:MS3_7700SWA

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CCV V-397371	1	CCV	14:26	54							V-397371(CCV WARNING)
CCB V-397368	1	CCB	14:31	55							V-397368(ICB/CCB WARNING)
AD38617-009	1	SMP	14:36	56	MET-TAL6020S	SOIL	SOIL	SW846	107880	Rerun Cr (LR).	()
AD38617-010	1	SMP	14:40	57	MET-TAL6020S	SOIL	SOIL	SW846	107880		()
AD38622-042	5	SMP	14:44	58	MET-2-6020	SOIL	SOIL	SW846	107880	Report Pb.	()
AD38586-003	5	SMP	14:49	59	PPMETAL-6020	SOIL	SOIL	SW846	107880	Report As, Pb.	()
AD38586-004	5	SMP	14:53	60	PPMETAL-6020	SOIL	SOIL	SW846	107880	Report As.	()
AD38589-008	5	SMP	14:58	61	MET-SRS6020S	SOIL	SOIL	SW846	107872	Report Ba.	()
AD38589-017	10	SMP	15:02	62	MET-SRS6020S	SOIL	SOIL	SW846	107872	Report Mn, Ni, Pb, Zn.	()
RINSE	1	NA	15:07	63	MET-SRS6020S	SOIL	SOIL	SW846	107872		()
CCV V-397371	1	CCV	15:11	64							V-397371(CCV WARNING)
CCB V-397368	1	CCB	15:16	65							V-397368(ICB/CCB WARNING)

Comments/Reviewedby:

pcousineau
192.168.1.19 6/19/2023 4:16:27 PM

B-29860 Report Ba for 38589-008. Report Mn, Ni, Pb, Zn for 38589-017.
B-29868 Report TAL. LRS fail for Ag. Ag Lr = 100ppb.
Reran Pb for 38622-042, 38629-002 (LR), Reran As, Pb for 38586-003 (LR).
Reran As for 38586-004 (LR), Reran V, Zn for 38629-004 (LR). PC.

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor: no 6/15/23

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\HGCV3A\H29868S.txt

Analysis Date: 06/20/23 **Instrument** HGCV3A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-397575	1	CAL	11:57	1							V-397575(Hg soil standard blk)
.5 PPB V-397576	1	CAL	11:58	2							V-397576(Hg soil standard .5 ppb)
1 PPB V-397577	1	CAL	12:00	3							V-397577(Hg soil standard 1 ppb)
2 PPB V-397578	1	CAL	12:01	4							V-397578(Hg soil standard 2 ppb)
5 PPB V-397579	1	CAL	12:02	5							V-397579(Hg soil standard 5 ppb)
10 PPB V-397580	1	CAL	12:04	6							V-397580(Hg soil standard 10 ppb)
25 PPB V-397581	1	CAL	12:06	7							V-397581(Hg soil standard 25 ppb)
ICV (2) V-397573	1	ICV	12:08	8							V-397573(Hg Soil ICV Soil)
ICB V-397575	1	ICB	12:09	9							V-397575(Hg soil standard blk)
MB 107880 (167)	1	MB	12:11	10	HG-SOIL	SOIL	SOIL	SW846	107880		0
LCS 107880	1	LCS	12:12	11	HG-SOIL	SOIL	SOIL	SW846	107880		0
LCS MR 107880	1	LCS	12:14	12	HG-SOIL	SOIL	SOIL	SW846	107880		0
AD38586-001	1	SMP	12:16	13	HG-SOIL	SOIL	SOIL	SW846	107880		0
AD38586-001	1	MR	12:17	14	HG-SOIL	SOIL	SOIL	SW846	107880		0
AD38586-007	1	MS	12:19	15	HG-SOIL	SOIL	SOIL	SW846	107880		0
AD38586-008	1	MSD	12:20	16	HG-SOIL	SOIL	SOIL	SW846	107880		0
AD38586-002	1	SMP	12:22	17	HG-SOIL	SOIL	SOIL	SW846	107880		0
AD38586-003	1	SMP	12:24	18	HG-SOIL	SOIL	SOIL	SW846	107880		0
AD38586-004	1	SMP	12:25	19	HG-SOIL	SOIL	SOIL	SW846	107880		0
CCV V-397574	1	CCV	12:27	20							V-397574(Hg soil CCV 10ppb)
CCB V-397575	1	CCB	12:28	21							V-397575(Hg soil standard blk)
AD38617-007	1	SMP	12:30	22	HG-SOIL	SOIL	SOIL	SW846	107880		0
AD38617-008	1	SMP	12:31	23	HG-SOIL	SOIL	SOIL	SW846	107880		0
AD38617-009	1	SMP	12:33	24	HG-SOIL	SOIL	SOIL	SW846	107880		0
AD38617-010	1	SMP	12:34	25	HG-SOIL	SOIL	SOIL	SW846	107880		0
AD38629-002	1	SMP	12:36	26	HG-SOIL	SOIL	SOIL	SW846	107880		0
AD38629-003	1	SMP	12:37	27	HG-SOIL	SOIL	SOIL	SW846	107880		0
AD38629-004	1	SMP	12:38	28	HG-SOIL	SOIL	SOIL	SW846	107880		0
AD38629-005	1	SMP	12:40	29	HG-SOIL	SOIL	SOIL	SW846	107880		0
AD38571-016	1	SMP	12:41	30	HG-SOIL	SOIL	SOIL	SW846	107880		0
CCV V-397574	1	CCV	12:43	31							V-397574(Hg soil CCV 10ppb)
CCB V-397575	1	CCB	12:44	32							V-397575(Hg soil standard blk)

Comments/Reviewedby:

JLeary
192.168.1.55 6/20/2023 12:57:19 PM

OK

6/20/23

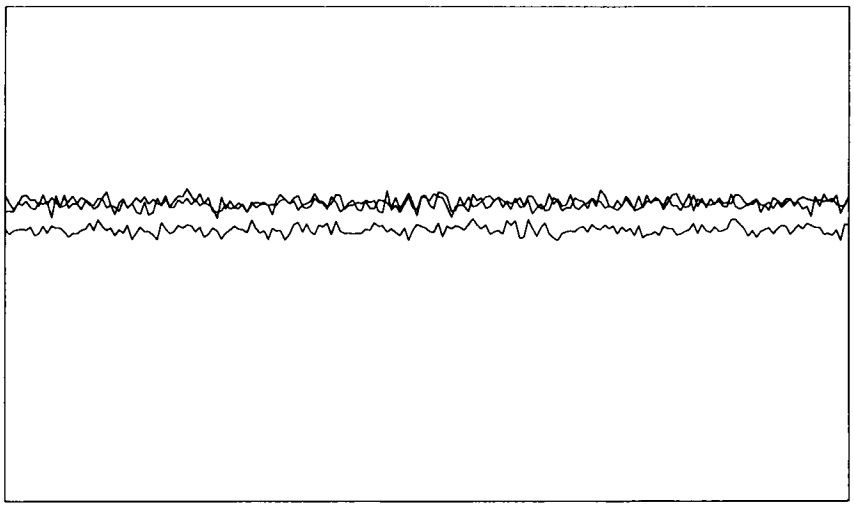
Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

V-397682

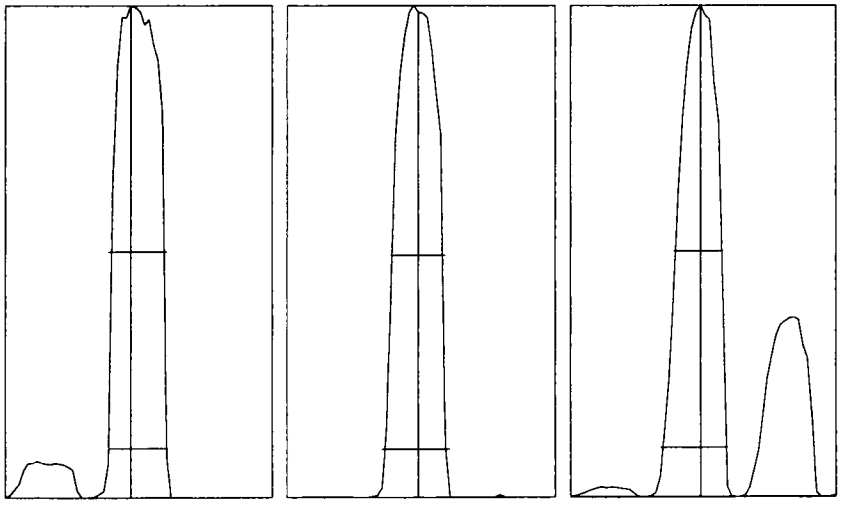
Tune Report

Tune File : ATUNE.U
Comment : TN061923



Integration Time:	0.1000 sec	
Sampling Period:	0.6200 sec	
n:	200	
Oxide:	156/140	0.726
Doubly Charged:	70/140	1.044

m/z	Range	Count	Mean	RSD%	Background
7	50,000	30818.0	30270.5	1.78	6.30
89	200,000	112055.0	109900.8	1.74	8.20
205	100,000	61619.0	60149.5	1.76	814.90
156/140	2	0.673%	0.723%	5.26	
70/140	2	1.059%	1.042%	5.06	



m/z:	7	89	
Height:	30,374	109,450	9
Axis:	6.95	89.00	2
W-50%:	0.65	0.60	
W-10%:	0.6500	0.7500	(

Integration Time:	0.1000 sec
Acquisition Time:	22.7600 sec

Y axis : Linear

Generated : Jun 19, 2023 09:57:37
Printed : Jun 19, 2023 09:57:41

Tune Report

Tune File : ATUNE.U
Comment : TN061923

Tuning Parameters

===Plasma Condition===			===Ion Lenses===			===Q-Pole Parameters===		
RF Power	: 1500	W	Extract 1	: 0	V	AMU Gain	: 127	
RF Matching	: 1.05	V	Extract 2	: -155	V	AMU Offset	: 128	
Smpl Depth	: 10.5	mm	Omega Bias	: -80	V	Axis Gain	: 0.9995	
Torch-H	: -0.7	mm	Omega Lens	: 9	V	Axis Offset	: 0.07	
Torch-V	: 0.7	mm	Cell Entrance	: -40	V	QP Bias	: -3	V
Carrier Gas	: 0.55	L/min	Cell Exit	: -60	V			
Dilution Mode	: ON		Deflect	: 13	V	===Detector Parameters===		
Dilution Gas	: 0.5	L/min	Plate Bias	: -40	V	Discriminator	: 4.5	mV
Optional Gas	: ---	%	===Octopole Parameters===			Analog HV	: 1818	V
Nebulizer Pump	: 0.1	rps	OctP RF	: 190	V	Pulse HV	: 1750	V
Sample Pump	: ---	rps	OctP Bias	: -8	V			
S/C Temp	: 2	degC						

===Reaction Cell===

Reaction Mode	: OFF							
H2 Gas	: ---	mL/min	He Gas	: 0	mL/min	Optional Gas	: ---	%

Generated : Jun 19, 2023 09:57:37
Printed : Jun 19, 2023 09:57:44

C:\ICPMH\1\7500\QCTUNE.D

QC Tune Report

Data File: C:\ICPMH\1\7500\QCTUNE.D
Date Acquired: 19 Jun 2023 10:12:33 am
Operator: PC
Misc Info:
Vial Number: 4
Current Method: C:\ICPMH\1\METHODS\TN6020.m

Minimum Response(CPS)

Element	Actual	Required	Flag
7 Li	3227230.00	0.00	
59 Co	6821320.00	0.00	
115 In	9945690.00	0.00	
205 Tl	5845780.00	0.00	

RSD (%)

Element	Actual	Required	Flag
7 Li	0.62	5.00	
59 Co	0.26	5.00	
115 In	1.14	5.00	
205 Tl	0.89	5.00	

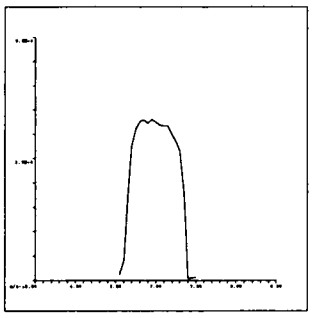
Ion Ratio

Element	Actual	Required	Flag
7 Li			
59 Co			
115 In			
205 Tl			

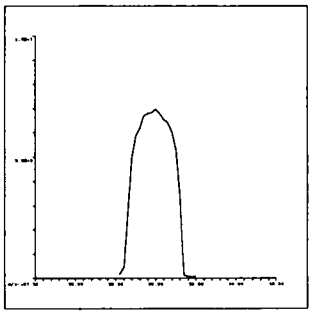
Maximum Bkg. Count(CPS)

Element	Actual	Required	Flag

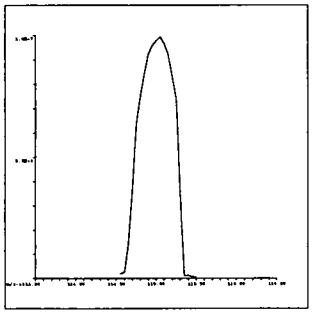
C:\ICPMH\1\7500\QCTUNE.D



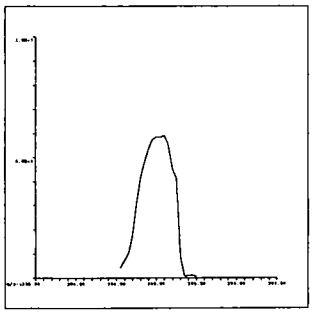
7 Li
Mass Calib.
Actual: 6.90
Required: 6.90-7.10
Flag:
Peak Width
Actual: 0.75
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 58.95
Required: 58.90-59.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:



115 In
Mass Calib.
Actual: 115.05
Required: 114.90-115.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:



205 Tl
Mass Calib.
Actual: 205.05
Required: 204.90-205.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:

QC Tune Result:Pass

Calibration Blank Report

Fil S061923A

B-28868

QL 151880

Sample Name	**RINSE**
Data File Name	**001CALB.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T10:32:12-04:00**
Type	**CalBlk**
VialNumber	**1102**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	

Rnok

QC Analyte Table

Element	m/z	ISTD	Tune Step	CPS	%RSD
Be	9	165	1	58	14.52
Na	23	115	2	27421	2.83
Mg	24	115	2	181	8.70
Al	27	115	2	126	56.12
K	39	115	2	31087	0.99
Ca	44	115	2	432	10.07
V	51	115	2	44	11.45
Cr	52	115	2	291	7.45
Mn	55	115	2	503	7.01
Fe	56	115	2	19139	4.73
Co	59	115	2	282	15.95
Ni	60	115	2	192	30.65
Cu	65	115	2	937	4.98
Zn	66	115	2	720	10.68
As	75	115	2	19	49.07
Se	78	115	2	46	46.80
Kr	83	115	1	320	7.29
Mo	95	115	1	390	0.86
Ag	107	115	1	729	7.55
Cd	111	115	1	16	19.70
Sb	121	115	1	7316	0.34
Ba	137	159	1	202	19.25
Tl	205	165	1	2671	2.00
(Pb)	206	165	1	7792	1.46
(Pb)	207	165	1	6764	0.38
Pb	208	165	1	16320	4.05

Report TAL
LRS Fail for As
As LR = 100 ppb

Rerun - Pb for 38622-042, 38625-102.
- As, Pb for 38586-003
- As, ~~Pb~~ for 38586-004
- V, Zn for 38625-004
Rerun Cr for 38617-009 (LR)

[signature]
6/19/23

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD
Sc	45	1	1339525	2.26
Sc	45	2	48426	1.04
In	115	1	1802809	0.26
In	115	2	420231	1.21
Tb	159	1	2155924	0.88
Tb	159	2	1289446	0.93
Ho	165	1	2064598	0.24
Ho	165	2	1268205	0.54

TuneStep	TuneFile
1	nogas.u
2	he.u

Calibration Blank Report

Sample Name	**RINSE**
Data File Name	**002CALB.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T10:36:42-04:00**
Type	**CalBlk**
VialNumber	**1102**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	

QC Analyte Table

Element	m/z	ISTD	Tune Step	CPS	%RSD
Be	9	165	1	47	7.14
Na	23	115	2	24684	1.92
Mg	24	115	2	171	14.88
Al	27	115	2	100	38.44
K	39	115	2	31198	0.37
Ca	44	115	2	334	9.98
V	51	115	2	51	16.41
Cr	52	115	2	293	7.87
Mn	55	115	2	483	6.58
Fe	56	115	2	18687	2.34
Co	59	115	2	203	24.59
Ni	60	115	2	190	6.33
Cu	65	115	2	990	4.86
Zn	66	115	2	778	8.41
As	75	115	2	16	34.31
Se	78	115	2	50	28.34
Kr	83	115	1	339	6.40
Mo	95	115	1	319	10.88
Ag	107	115	1	441	11.57
Cd	111	115	1	22	32.68
Sb	121	115	1	4534	4.41
Ba	137	159	1	246	15.91
Tl	205	165	1	2339	4.09
(Pb)	206	165	1	7579	3.90
(Pb)	207	165	1	6429	4.20
Pb	208	165	1	15394	0.68

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD
Sc	45	1	1366502	0.79
Sc	45	2	49259	0.72
In	115	1	1811858	0.93
In	115	2	425192	0.72
Tb	159	1	2177974	0.82
Tb	159	2	1292958	1.14
Ho	165	1	2092129	1.01
Ho	165	2	1277963	0.84

TuneStep	TuneFile
1	nogas.u
2	he.u

Calibration Blank Report

Sample Name	**CalBlk V-397361**
Data File Name	**003CALB.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T10:41:11-04:00**
Type	**CalBlk**
VialNumber	**2101**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	

QC Analyte Table

Element	m/z	ISTD	Tune Step	CPS	%RSD
Be	9	165	1	42	4.57
Na	23	115	2	35088	0.09
Mg	24	115	2	398	13.65
Al	27	115	2	274	18.23
K	39	115	2	31309	1.01
Ca	44	115	2	366	7.08
V	51	115	2	815	3.07
Cr	52	115	2	642	4.71
Mn	55	115	2	520	16.06
Fe	56	115	2	27941	1.43
Co	59	115	2	70	37.80
Ni	60	115	2	232	12.21
Cu	65	115	2	1256	11.37
Zn	66	115	2	1245	8.57
As	75	115	2	24	25.81
Se	78	115	2	52	14.89
Kr	83	115	1	362	13.41
Mo	95	115	1	311	12.33
Ag	107	115	1	327	8.90
Cd	111	115	1	26	23.00
Sb	121	115	1	6848	2.68
Ba	137	159	1	772	4.97
Tl	205	165	1	1764	6.56
(Pb)	206	165	1	7528	4.17
(Pb)	207	165	1	6218	1.86
Pb	208	165	1	15413	2.30

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD
Sc	45	1	1473315	1.30
Sc	45	2	51570	1.14
In	115	1	1904177	0.27
In	115	2	427600	0.74
Tb	159	1	2301159	0.25
Tb	159	2	1322531	1.03
Ho	165	1	2203645	0.23
Ho	165	2	1300814	0.47

TuneStep	TuneFile
1	nogas.u
2	he.u

Calibration Standard Report

Sample Name	**CalStd1 V-397362**
Data File Name	**004CALS.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T10:45:42-04:00**
Type	**CalStd**
VialNumber	**2102**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	CPS	%RSD
Be	9	165	1	3938	2.59
Na	23	115	2	75773	0.75
Mg	24	115	2	27287	1.32
Al	27	115	2	3000	2.08
K	39	115	2	57595	0.55
Ca	44	115	2	1658	2.35
V	51	115	2	4825	6.18
Cr	52	115	2	6843	3.73
Mn	55	115	2	3178	2.90
Fe	56	115	2	475189	1.33
Co	59	115	2	8832	4.54
Ni	60	115	2	2808	1.93
Cu	65	115	2	4822	1.53
Zn	66	115	2	1582	4.67
As	75	115	2	588	7.09
Se	78	115	2	225	17.02
Kr	83	115	1	348	7.75
Mo	95	115	1	8823	9.06
Ag	107	115	1	19869	0.11
Cd	111	115	1	3536	1.05
Sb	121	115	1	20201	1.89
Ba	137	159	1	6330	3.48
Tl	205	165	1	28557	2.37
(Pb)	206	165	1	16471	2.78
(Pb)	207	165	1	14236	2.08
Pb	208	165	1	34225	1.18

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1415219	3.91	1473315	96.1	70	130	
Sc	45	2	50996	0.44	51570	98.9	70	130	
In	115	1	1818135	6.85	1904177	95.5	70	130	
In	115	2	424941	2.09	427600	99.4	70	130	
Tb	159	1	2212015	6.06	2301159	96.1	70	130	
Tb	159	2	1324321	1.30	1322531	100.1	70	130	
Ho	165	1	2123399	5.48	2203645	96.4	70	130	
Ho	165	2	1303999	1.17	1300814	100.2	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Calibration Standard Report

Sample Name	**CalStd2 V-397363**
Data File Name	**005CALS.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T10:50:14-04:00**
Type	**CalStd**
VialNumber	**2103**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	CPS	%RSD
Be	9	165	1	37302	1.99
Na	23	115	2	565945	1.38
Mg	24	115	2	257501	1.35
Al	27	115	2	26314	1.26
K	39	115	2	293767	1.11
Ca	44	115	2	14091	1.28
V	51	115	2	39241	0.70
Cr	52	115	2	51243	1.65
Mn	55	115	2	26942	1.29
Fe	56	115	2	4231074	0.81
Co	59	115	2	84538	0.13
Ni	60	115	2	23710	2.31
Cu	65	115	2	34261	0.63
Zn	66	115	2	8720	4.04
As	75	115	2	5443	1.19
Se	78	115	2	1832	1.25
Kr	83	115	1	324	10.34
Mo	95	115	1	75549	1.24
Ag	107	115	1	185562	0.58
Cd	111	115	1	34091	0.22
Sb	121	115	1	141521	1.11
Ba	137	159	1	58019	1.41
Tl	205	165	1	263129	1.00
(Pb)	206	165	1	100067	1.00
(Pb)	207	165	1	84199	0.97
Pb	208	165	1	206592	0.52

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1489495	1.03	1473315	101.1	70	130	
Sc	45	2	51190	1.27	51570	99.3	70	130	
In	115	1	1901055	0.46	1904177	99.8	70	130	
In	115	2	428747	0.63	427600	100.3	70	130	
Tb	159	1	2307124	0.53	2301159	100.3	70	130	
Tb	159	2	1335880	1.73	1322531	101.0	70	130	
Ho	165	1	2202732	0.81	2203645	100.0	70	130	
Ho	165	2	1322110	0.97	1300814	101.6	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Calibration Standard Report

Sample Name	**CalStd3 V-397364**
Data File Name	**006CALS.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T10:54:43-04:00**
Type	**CalStd**
VialNumber	**2104**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	CPS	%RSD
Be	9	165	1	76858	1.59
Na	23	115	2	1210052	1.16
Mg	24	115	2	519791	0.61
Al	27	115	2	52510	0.06
K	39	115	2	560475	0.85
Ca	44	115	2	28416	3.05
V	51	115	2	79128	1.46
Cr	52	115	2	102315	1.72
Mn	55	115	2	52345	2.22
Fe	56	115	2	8362437	0.96
Co	59	115	2	170917	0.97
Ni	60	115	2	48070	1.17
Cu	65	115	2	67010	0.64
Zn	66	115	2	17374	4.10
As	75	115	2	10976	1.86
Se	78	115	2	3747	1.84
Kr	83	115	1	376	11.58
Mo	95	115	1	154331	0.99
Ag	107	115	1	380483	0.85
Cd	111	115	1	69828	1.53
Sb	121	115	1	281647	1.33
Ba	137	159	1	117199	2.04
Tl	205	165	1	538948	1.57
(Pb)	206	165	1	194953	0.64
(Pb)	207	165	1	164848	0.48
Pb	208	165	1	404204	0.81

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1496191	0.79	1473315	101.6	70	130	
Sc	45	2	51896	1.60	51570	100.6	70	130	
In	115	1	1894629	0.90	1904177	99.5	70	130	
In	115	2	426507	1.11	427600	99.7	70	130	
Tb	159	1	2315950	1.06	2301159	100.6	70	130	
Tb	159	2	1338713	1.51	1322531	101.2	70	130	
Ho	165	1	2212438	0.37	2203645	100.4	70	130	
Ho	165	2	1317838	0.99	1300814	101.3	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Calibration Standard Report

Sample Name	**CalStd4 V-397365**
Data File Name	**007CALS.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T10:59:14-04:00**
Type	**CalStd**
VialNumber	**2105**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	CPS	%RSD
Be	9	165	1	375117	1.01
Na	23	115	2	5601551	0.49
Mg	24	115	2	2586637	1.06
Al	27	115	2	253227	0.24
K	39	115	2	2605904	1.08
Ca	44	115	2	135696	1.28
V	51	115	2	379731	1.16
Cr	52	115	2	488111	0.78
Mn	55	115	2	253316	1.01
Fe	56	115	2	40020803	0.43
Co	59	115	2	828142	0.29
Ni	60	115	2	228651	1.59
Cu	65	115	2	318462	0.46
Zn	66	115	2	77753	2.34
As	75	115	2	53591	0.61
Se	78	115	2	17558	0.17
Kr	83	115	1	357	11.33
Mo	95	115	1	757624	1.17
Ag	107	115	1	1953709	0.66
Cd	111	115	1	340507	1.03
Sb	121	115	1	1372107	0.45
Ba	137	159	1	578974	0.73
Tl	205	165	1	2931554	0.89
(Pb)	206	165	1	934973	1.00
(Pb)	207	165	1	789643	0.76
Pb	208	165	1	2091941	0.44

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1507118	0.65	1473315	102.3	70	130	
Sc	45	2	51572	1.57	51570	100.0	70	130	
In	115	1	1856213	0.82	1904177	97.5	70	130	
In	115	2	420393	0.81	427600	98.3	70	130	
Tb	159	1	2273851	0.42	2301159	98.8	70	130	
Tb	159	2	1326541	0.30	1322531	100.3	70	130	
Ho	165	1	2179906	0.61	2203645	98.9	70	130	
Ho	165	2	1306803	0.15	1300814	100.5	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Calibration Standard Report

Sample Name	**CalStd5 V-397366**
Data File Name	**008CALS.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T11:03:36-04:00**
Type	**CalStd**
VialNumber	**2106**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	CPS	%RSD
Be	9	165	1	738709	0.52
Na	23	115	2	11163655	1.45
Mg	24	115	2	5106850	1.17
Al	27	115	2	509957	0.95
K	39	115	2	5145382	0.95
Ca	44	115	2	273049	0.93
V	51	115	2	768027	0.74
Cr	52	115	2	985736	0.55
Mn	55	115	2	509127	1.45
Fe	56	115	2	80596402	1.61
Co	59	115	2	1702348	0.37
Ni	60	115	2	457720	0.89
Cu	65	115	2	641075	0.87
Zn	66	115	2	156670	1.19
As	75	115	2	109258	1.88
Se	78	115	2	35943	1.59
Kr	83	115	1	354	30.77
Mo	95	115	1	1580654	1.51
Ag	107	115	1	3818506	0.65
Cd	111	115	1	676069	0.49
Sb	121	115	1	2869310	0.63
Ba	137	159	1	1159083	0.53
Tl	205	165	1	5802853	0.95
(Pb)	206	165	1	1975821	0.61
(Pb)	207	165	1	1648236	0.16
Pb	208	165	1	4095112	0.17

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1463453	2.02	1473315	99.3	70	130	
Sc	45	2	50735	0.81	51570	98.4	70	130	
In	115	1	1808817	0.71	1904177	95.0	70	130	
In	115	2	418783	1.37	427600	97.9	70	130	
Tb	159	1	2240619	0.34	2301159	97.4	70	130	
Tb	159	2	1325433	1.22	1322531	100.2	70	130	
Ho	165	1	2145167	0.96	2203645	97.3	70	130	
Ho	165	2	1313238	0.89	1300814	101.0	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Initial Calibration Verification (ICV) - US EPA Method 6020

Sample Name	**ICV V-397367**
Data File Name	**009_ICV.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T11:07:56-04:00**
Type	**6-ICV**
VialNumber	**2108**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	Conc	Units	Expected	CPS	%RSD	%Rec	%QC Low	%QC High	QC Flag
Be	9	165	1	49.24	ppb	50	371548	0.14	98.48	90	110	
Na	23	115	2	4837.47	ppb	5000	5661901	0.71	96.75	90	110	
Mg	24	115	2	5011.92	ppb	5000	2660072	1.04	100.24	90	110	
Al	27	115	2	5102.45	ppb	5000	883482	0.61	102.05	90	110	
K	39	115	2	4817.70	ppb	5000	2673089	0.59	96.35	90	110	
Ca	44	115	2	4953.77	ppb	5000	138006	2.63	99.08	90	110	
V	51	115	2	48.20	ppb	50	383211	1.10	96.40	90	110	
Cr	52	115	2	48.81	ppb	50	498086	0.50	97.61	90	110	
Mn	55	115	2	50.49	ppb	50	262238	1.03	100.98	90	110	
Fe	56	115	2	5002.14	ppb	5000	41092911	0.73	100.04	90	110	
Co	59	115	2	48.91	ppb	50	844958	0.83	97.83	90	110	
Ni	60	115	2	49.86	ppb	50	232935	0.78	99.72	90	110	
Cu	65	115	2	50.19	ppb	50	328373	1.14	100.37	90	110	
Zn	66	115	2	49.74	ppb	50	79893	1.20	99.48	90	110	
As	75	115	2	50.42	ppb	50	55990	0.83	100.84	90	110	
Se	78	115	2	51.24	ppb	50	3787	2.07	102.48	90	110	
Mo	95	115	1	47.46	ppb	50	767611	0.95	94.92	90	110	
Ag	107	115	1	9.70	ppb	10	383960	0.76	96.97	90	110	
Cd	111	115	1	49.19	ppb	50	343656	0.47	98.38	90	110	
Sb	121	115	1	47.23	ppb	50	1388556	0.41	94.46	90	110	
Ba	137	159	1	48.74	ppb	50	576244	0.30	97.47	90	110	
Tl	205	165	1	48.65	ppb	50	2877885	0.73	97.29	90	110	
Pb	208	165	1	50.16	ppb	50	2104726	0.80	100.31	90	110	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1438083	0.43	1473315	97.6	70	130	
Sc	45	2	50732	0.45	51570	98.4	70	130	
In	115	1	1876375	0.51	1904177	98.5	70	130	
In	115	2	427583	0.79	427600	100.0	70	130	
Tb	159	1	2292162	0.44	2301159	99.6	70	130	
Tb	159	2	1343190	1.10	1322531	101.6	70	130	
Ho	165	1	2191109	0.45	2203645	99.4	70	130	
Ho	165	2	1329643	1.67	1300814	102.2	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Low Level Initial/Continuing Calibration Verification (ICV/CCV) - US EPA Method 6020

Sample Name	**LLICV V-397372**
Data File Name	**010_LCS.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T11:12:23-04:00**
Type	**6-LCS**
VialNumber	**2110**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	Units	ExpectedValue	%Recovery	%QC Low	%QC High	QC Flag
Be	9	165	1	0.95	ppb	1	94.9	80	120	
Na	23	115	2	456.92	ppb	500	91.4	80	120	
Mg	24	115	2	471.28	ppb	500	94.3	80	120	
Al	27	115	2	493.51	ppb	500	98.7	80	120	
K	39	115	2	471.14	ppb	500	94.2	80	120	
Ca	44	115	2	483.14	ppb	500	96.6	80	120	
V	51	115	2	0.93	ppb	1	93.3	80	120	
Cr	52	115	2	1.90	ppb	2	95.1	80	120	
Mn	55	115	2	5.73	ppb	6	95.6	80	120	
Fe	56	115	2	489.91	ppb	500	98.0	80	120	
Co	59	115	2	1.88	ppb	2	93.9	80	120	
Ni	60	115	2	2.91	ppb	3	96.8	80	120	
Cu	65	115	2	9.57	ppb	10	95.7	80	120	
Zn	66	115	2	19.19	ppb	20	95.9	80	120	
As	75	115	2	0.95	ppb	1	95.5	80	120	
Se	78	115	2	9.81	ppb	10	98.1	80	120	
Mo	95	115	1	1.05	ppb	1	104.8	80	120	
Ag	107	115	1	0.90	ppb	1	90.3	80	120	
Cd	111	115	1	1.87	ppb	2	93.5	80	120	
Sb	121	115	1	3.81	ppb	4	95.3	80	120	
Ba	137	159	1	4.64	ppb	5	92.8	80	120	
Tl	205	165	1	1.85	ppb	2	92.4	80	120	
Pb	208	165	1	1.72	ppb	2	86.0	80	120	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1428896	0.72	1473315	97.0	70	130	
Sc	45	2	50613	1.25	51570	98.1	70	130	
In	115	1	1894853	0.70	1904177	99.5	70	130	
In	115	2	435833	1.40	427600	101.9	70	130	
Tb	159	1	2306984	1.34	2301159	100.3	70	130	
Tb	159	2	1348167	0.89	1322531	101.9	70	130	
Ho	165	1	2209440	1.00	2203645	100.3	70	130	
Ho	165	2	1330872	1.47	1300814	102.3	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Initial Calibration Blank (ICB) - US EPA Method 6020

Sample Name	**ICB V-397368**
Data File Name	**011_ICB.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T11:16:55-04:00**
Type	**6-ICB**
VialNumber	**1202**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	Units	QC High	QC Flag
Be	9	165	1	0.00	ppb	0.5	
Na	23	115	2	-11.34	ppb	250	
Mg	24	115	2	-0.22	ppb	250	
Al	27	115	2	0.24	ppb	250	
K	39	115	2	-0.16	ppb	250	
Ca	44	115	2	-4.60	ppb	250	
V	51	115	2	0.04	ppb	0.5	
Cr	52	115	2	0.06	ppb	1	
Mn	55	115	2	-0.03	ppb	3	
Fe	56	115	2	3.81	ppb	250	
Co	59	115	2	0.00	ppb	1	
Ni	60	115	2	0.01	ppb	1.5	
Cu	65	115	2	-0.07	ppb	5	
Zn	66	115	2	-0.16	ppb	10	
As	75	115	2	0.01	ppb	0.5	
Se	78	115	2	0.19	ppb	5	
Mo	95	115	1	0.04	ppb	0.5	
Ag	107	115	1	0.00	ppb	0.5	
Cd	111	115	1	0.00	ppb	1	
Sb	121	115	1	-0.10	ppb	2	
Ba	137	159	1	-0.03	ppb	2.5	
Tl	205	165	1	0.04	ppb	1	
Pb	208	165	1	-0.13	ppb	1	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1475748	1.22	1473315	100.2	70	130	
Sc	45	2	51952	1.05	51570	100.7	70	130	
In	115	1	1921160	0.14	1904177	100.9	70	130	
In	115	2	431889	0.54	427600	101.0	70	130	
Tb	159	1	2314006	0.22	2301159	100.6	70	130	
Tb	159	2	1330057	0.39	1322531	100.6	70	130	
Ho	165	1	2223368	0.48	2203645	100.9	70	130	
Ho	165	2	1312657	0.71	1300814	100.9	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Interference Check Sample A (ICS-A) - US EPA Method 6020

Sample Name	**ICSA V-397369**
Data File Name	**012ICSA.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T11:21:27-04:00**
Type	**6-ICSA**
VialNumber	**2107**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	Units	QC High	QC Flag
Be	9	165	1	0.02	ppb	1	
Na	23	115	2	125756.44	ppb	162500	
Mg	24	115	2	50223.24	ppb	65000	
Al	27	115	2	54390.72	ppb	65000	
K	39	115	2	51036.55	ppb	65000	
Ca	44	115	2	160128.76	ppb	195000	
V	51	115	2	-0.05	ppb	1	
Cr	52	115	2	0.97	ppb	2	
Mn	55	115	2	1.60	ppb	6	
Fe	56	115	2	125590.40	ppb	162500	
Co	59	115	2	1.07	ppb	2	
Ni	60	115	2	1.22	ppb	3	
Cu	65	115	2	0.87	ppb	10	
Zn	66	115	2	1.18	ppb	20	
As	75	115	2	0.23	ppb	1	
Se	78	115	2	0.64	ppb	10	
Mo	95	115	1	1002.43	ppb	1300	
Ag	107	115	1	0.04	ppb	1	
Cd	111	115	1	0.92	ppb	2	
Sb	121	115	1	0.00	ppb	1	
Ba	137	159	1	0.74	ppb	5	
Tl	205	165	1	0.01	ppb	2	
Pb	208	165	1	0.66	ppb	2	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1560696	0.25	1473315	105.9	70	130	
Sc	45	2	55606	0.83	51570	107.8	70	130	
In	115	1	1754804	0.69	1904177	92.2	70	130	
In	115	2	412448	1.04	427600	96.5	70	130	
Tb	159	1	2224123	0.44	2301159	96.7	70	130	
Tb	159	2	1311541	0.46	1322531	99.2	70	130	
Ho	165	1	2126660	0.28	2203645	96.5	70	130	
Ho	165	2	1297690	0.91	1300814	99.8	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**RINSE**
Data File Name	**013SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T11:25:49-04:00**
Type	**Sample**
VialNumber	**1101**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.00	0.00	ppb	29	46.63	550	
Na	23	115	2	-4.59	-4.59	ppb	31754	0.42	220000	
Mg	24	115	2	-0.24	-0.24	ppb	290	10.22	220000	
Al	27	115	2	-0.90	-0.90	ppb	128	5.43	181500	
K	39	115	2	4.61	4.61	ppb	36110	0.74	220000	
Ca	44	115	2	-4.09	-4.09	ppb	269	15.50	220000	
V	51	115	2	-0.10	-0.10	ppb	63	22.94	550	
Cr	52	115	2	-0.03	-0.03	ppb	376	14.10	550	
Mn	55	115	2	-0.01	-0.01	ppb	517	4.52	2750	
Fe	56	115	2	14.61	14.61	ppb	157833	3.17	220000	
Co	59	115	2	0.00	0.00	ppb	59	13.08	550	
Ni	60	115	2	-0.02	-0.02	ppb	132	14.34	550	
Cu	65	115	2	0.05	0.05	ppb	1662	6.83	2750	
Zn	66	115	2	-0.27	-0.27	ppb	867	5.29	2750	
As	75	115	2	0.00	0.00	ppb	28	30.20	550	
Se	78	115	2	0.27	0.27	ppb	77	4.17	2750	
Mo	95	115	1	0.76	0.76	ppb	12705	6.03	550	
Ag	107	115	1	0.01	0.01	ppb	668	18.08	550	
Cd	111	115	1	0.00	0.00	ppb	32	26.04	550	
Sb	121	115	1	-0.17	-0.17	ppb	1657	2.52	550	
Ba	137	159	1	-0.05	-0.05	ppb	214	9.11	2750	
Tl	205	165	1	0.00	0.00	ppb	1872	5.06	550	
Pb	208	165	1	-0.08	-0.08	ppb	11609	2.08	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1409272	0.44	1473315	95.7	70	130	
Sc	45	2	53382	1.07	51570	103.5	70	130	
In	115	1	1904315	0.29	1904177	100.0	70	130	
In	115	2	456345	1.02	427600	106.7	70	130	
Tb	159	1	2235478	0.69	2301159	97.1	70	130	
Tb	159	2	1344707	1.19	1322531	101.7	70	130	
Ho	165	1	2131523	0.46	2203645	96.7	70	130	
Ho	165	2	1326036	1.08	1300814	101.9	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**LRS V-397370**
Data File Name	**014SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T11:30:19-04:00**
Type	**Sample**
VialNumber	**2109**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	472.05	472.05	ppb	3269890	0.69	550	
Na	23	115	2	184208.43	184208.43	ppb	211649955	1.10	220000	
Mg	24	115	2	183620.62	183620.62	ppb	96237407	0.89	220000	
Al	27	115	2	165299.80	185299.80	ppb	28261354	1.84	181500	
K	39	115	2	191375.83	191375.83	ppb	103684180	1.80	220000	
Ca	44	115	2	201089.29	201089.29	ppb	5518397	1.83	220000	
V	51	115	2	517.61	517.61	ppb	4056491	1.01	550	
Cr	52	115	2	496.39	496.39	ppb	4997137	0.72	550	
Mn	55	115	2	2461.15	2461.15	ppb	12598711	0.36	2750	
Fe	56	115	2	187344.23	187344.23	ppb	1518980137	1.05	220000	
Co	59	115	2	469.87	469.87	ppb	8015179	0.58	550	
Ni	60	115	2	470.12	470.12	ppb	2167111	0.41	550	
Cu	65	115	2	2407.43	2407.43	ppb	15497436	0.40	2750	
Zn	66	115	2	2436.95	2436.95	ppb	3806637	0.27	2750	
As	75	115	2	498.30	498.30	ppb	546295	1.13	550	
Se	78	115	2	2460.92	2460.92	ppb	177206	1.72	2750	
Mo	95	115	1	486.65	486.65	ppb	7020528	0.57	550	
Ag	107	115	1	86.70	86.70	ppb	3060875	0.49	550	
Cd	111	115	1	463.24	463.24	ppb	2887597	0.64	550	
Sb	121	115	1	476.57	476.57	ppb	12447280	1.27	550	
Ba	137	159	1	2411.04	2411.04	ppb	25940019	0.98	2750	
Tl	205	165	1	461.83	461.83	ppb	25069549	0.46	550	
Pb	208	165	1	2325.45	2325.45	ppb	88955232	0.28	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1483181	0.80	1473315	100.7	70	130	
Sc	45	2	59898	1.93	51570	116.1	70	130	
In	115	1	1674177	0.12	1904177	87.9	70	130	
In	115	2	422311	1.46	427600	98.8	70	130	
Tb	159	1	2088475	0.97	2301159	90.8	70	130	
Tb	159	2	1274103	0.68	1322531	96.3	70	130	
Ho	165	1	2011661	0.30	2203645	91.3	70	130	
Ho	165	2	1256536	0.44	1300814	96.6	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**RINSE**
Data File Name	**015SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T11:34:35-04:00**
Type	**Sample**
VialNumber	**1102**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.02	0.02	ppb	204	30.12	550	
Na	23	115	2	6.98	6.98	ppb	48565	1.99	220000	
Mg	24	115	2	1.29	1.29	ppb	1219	4.90	220000	
Al	27	115	2	0.48	0.48	ppb	401	12.47	181500	
K	39	115	2	15.78	15.78	ppb	44919	1.56	220000	
Ca	44	115	2	-0.11	-0.11	ppb	407	17.73	220000	
V	51	115	2	-0.09	-0.09	ppb	149	3.42	550	
Cr	52	115	2	-0.03	-0.03	ppb	432	20.50	550	
Mn	55	115	2	0.03	0.03	ppb	772	8.10	2750	
Fe	56	115	2	14.15	14.15	ppb	161988	1.01	220000	
Co	59	115	2	0.01	0.01	ppb	229	38.38	550	
Ni	60	115	2	-0.02	-0.02	ppb	153	22.06	550	
Cu	65	115	2	0.01	0.01	ppb	1515	6.49	2750	
Zn	66	115	2	-0.14	-0.14	ppb	1149	2.62	2750	
As	75	115	2	0.13	0.13	ppb	189	15.38	550	
Se	78	115	2	1.09	1.09	ppb	148	5.00	2750	
Mo	95	115	1	0.41	0.41	ppb	6925	3.17	550	
Ag	107	115	1	0.70	0.70	ppb	28075	8.14	550	
Cd	111	115	1	0.01	0.01	ppb	95	7.44	550	
Sb	121	115	1	0.65	0.65	ppb	25637	3.66	550	
Ba	137	159	1	0.00	0.00	ppb	746	5.55	2750	
Tl	205	165	1	0.46	0.46	ppb	27764	2.45	550	
Pb	208	165	1	0.01	0.01	ppb	15234	0.85	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1424419	1.08	1473315	96.7	70	130	
Sc	45	2	58046	0.70	51570	112.6	70	130	
In	115	1	1875814	1.20	1904177	98.5	70	130	
In	115	2	480648	1.29	427600	112.4	70	130	
Tb	159	1	2187173	0.90	2301159	95.0	70	130	
Tb	159	2	1365955	1.11	1322531	103.3	70	130	
Ho	165	1	2093794	0.45	2203645	95.0	70	130	
Ho	165	2	1344068	1.18	1300814	103.3	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**RINSE**
Data File Name	**016SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T11:39:06-04:00**
Type	**Sample**
VialNumber	**1102**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.01	0.01	ppb	133	7.50	550	
Na	23	115	2	2.13	2.13	ppb	42093	1.04	220000	
Mg	24	115	2	2.11	2.11	ppb	1701	12.29	220000	
Al	27	115	2	1.57	1.57	ppb	611	13.81	181500	
K	39	115	2	13.00	13.00	ppb	43078	0.25	220000	
Ca	44	115	2	-1.02	-1.02	ppb	378	7.71	220000	
V	51	115	2	-0.09	-0.09	ppb	150	11.55	550	
Cr	52	115	2	-0.02	-0.02	ppb	486	9.64	550	
Mn	55	115	2	0.03	0.03	ppb	761	10.66	2750	
Fe	56	115	2	7.35	7.35	ppb	98972	4.23	220000	
Co	59	115	2	0.01	0.01	ppb	341	12.72	550	
Ni	60	115	2	-0.02	-0.02	ppb	161	20.72	550	
Cu	65	115	2	0.00	0.00	ppb	1418	8.48	2750	
Zn	66	115	2	-0.23	-0.23	ppb	992	5.14	2750	
As	75	115	2	0.04	0.04	ppb	80	22.73	550	
Se	78	115	2	0.62	0.62	ppb	109	9.23	2750	
Mo	95	115	1	0.12	0.12	ppb	2240	5.58	550	
Ag	107	115	1	0.51	0.51	ppb	20159	10.67	550	
Cd	111	115	1	0.01	0.01	ppb	65	12.79	550	
Sb	121	115	1	0.02	0.02	ppb	7136	2.66	550	
Ba	137	159	1	-0.01	-0.01	ppb	642	7.35	2750	
Tl	205	165	1	0.08	0.08	ppb	6368	3.31	550	
Pb	208	165	1	-0.02	-0.02	ppb	13585	3.20	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1444000	0.84	1473315	98.0	70	130	
Sc	45	2	58208	0.24	51570	112.9	70	130	
In	115	1	1851543	0.23	1904177	97.2	70	130	
In	115	2	479183	0.94	427600	112.1	70	130	
Tb	159	1	2169912	1.24	2301159	94.3	70	130	
Tb	159	2	1352292	0.28	1322531	102.3	70	130	
Ho	165	1	2058311	0.58	2203645	93.4	70	130	
Ho	165	2	1329034	0.67	1300814	102.2	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**RINSE**
Data File Name	**017SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T11:43:36-04:00**
Type	**Sample**
VialNumber	**1102**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.01	0.01	ppb	106	31.63	550	
Na	23	115	2	-0.43	-0.43	ppb	38639	1.32	220000	
Mg	24	115	2	1.57	1.57	ppb	1372	7.78	220000	
Al	27	115	2	0.57	0.57	ppb	418	10.62	181500	
K	39	115	2	11.30	11.30	ppb	41899	0.90	220000	
Ca	44	115	2	-1.62	-1.62	ppb	358	12.16	220000	
V	51	115	2	-0.09	-0.09	ppb	130	20.03	550	
Cr	52	115	2	-0.02	-0.02	ppb	488	11.44	550	
Mn	55	115	2	0.02	0.02	ppb	693	6.25	2750	
Fe	56	115	2	4.22	4.22	ppb	69897	3.21	220000	
Co	59	115	2	0.01	0.01	ppb	252	16.84	550	
Ni	60	115	2	-0.02	-0.02	ppb	167	9.16	550	
Cu	65	115	2	-0.01	-0.01	ppb	1328	4.51	2750	
Zn	66	115	2	-0.25	-0.25	ppb	940	7.47	2750	
As	75	115	2	0.04	0.04	ppb	74	26.15	550	
Se	78	115	2	0.54	0.54	ppb	102	16.08	2750	
Mo	95	115	1	0.07	0.07	ppb	1415	1.60	550	
Ag	107	115	1	0.40	0.40	ppb	15789	9.23	550	
Cd	111	115	1	0.01	0.01	ppb	67	13.82	550	
Sb	121	115	1	-0.09	-0.09	ppb	3952	2.62	550	
Ba	137	159	1	-0.01	-0.01	ppb	558	1.24	2750	
Tl	205	165	1	0.04	0.04	ppb	4003	5.34	550	
Pb	208	165	1	-0.04	-0.04	ppb	12829	1.46	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1452196	1.20	1473315	98.6	70	130	
Sc	45	2	59238	0.99	51570	114.9	70	130	
In	115	1	1842314	0.39	1904177	96.8	70	130	
In	115	2	477679	0.60	427600	111.7	70	130	
Tb	159	1	2145562	1.75	2301159	93.2	70	130	
Tb	159	2	1342979	0.50	1322531	101.5	70	130	
Ho	165	1	2066462	0.24	2203645	93.8	70	130	
Ho	165	2	1320799	0.38	1300814	101.5	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Continuing Calibration Verification (CCV) - US EPA Method 6020

Sample Name	**CCV V-397371**
Data File Name	**0186CCV.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T11:48:07-04:00**
Type	**6-CCV**
VialNumber	**1201**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	Conc	Units	Expected	CPS	%RSD	%Rec	%QC Low	%QC High	QC Flag
Be	9	165	1	53.54	ppb	50	409530	0.79	107.08	90	110	
Na	23	115	2	5259.46	ppb	5000	6795678	0.49	105.19	90	110	
Mg	24	115	2	5324.08	ppb	5000	3121070	0.61	106.48	90	110	
Al	27	115	2	1618.94	ppb	1500	309826	0.42	107.93	90	110	
K	39	115	2	5259.54	ppb	5000	3220128	0.22	105.19	90	110	
Ca	44	115	2	5387.53	ppb	5000	165731	0.74	107.75	90	110	
V	51	115	2	51.97	ppb	50	456295	0.57	103.94	90	110	
Cr	52	115	2	51.42	ppb	50	579523	0.27	102.83	90	110	
Mn	55	115	2	52.65	ppb	50	302000	0.50	105.30	90	110	
Fe	56	115	2	5215.72	ppb	5000	47324930	0.41	104.31	90	110	
Co	59	115	2	50.98	ppb	50	972744	0.69	101.97	90	110	
Ni	60	115	2	51.52	ppb	50	265866	0.80	103.04	90	110	
Cu	65	115	2	50.49	ppb	50	364850	1.01	100.97	90	110	
Zn	66	115	2	51.06	ppb	50	90545	0.88	102.11	90	110	
As	75	115	2	52.16	ppb	50	63974	0.99	104.32	90	110	
Se	78	115	2	263.75	ppb	250	21290	0.46	105.50	90	110	
Mo	95	115	1	48.02	ppb	50	814047	0.94	96.03	90	110	
Ag	107	115	1	50.40	ppb	50	2090670	0.34	100.81	90	110	
Cd	111	115	1	49.06	ppb	50	359297	0.53	98.12	90	110	
Sb	121	115	1	49.99	ppb	50	1540222	0.54	99.98	90	110	
Ba	137	159	1	50.42	ppb	50	606758	0.68	100.85	90	110	
Tl	205	165	1	49.15	ppb	50	2947701	0.57	98.30	90	110	
Pb	208	165	1	48.94	ppb	50	2082409	0.77	97.89	90	110	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1640157	1.37	1473315	111.3	70	130	
Sc	45	2	60606	1.79	51570	117.5	70	130	
In	115	1	1966834	0.42	1904177	103.3	70	130	
In	115	2	472278	0.55	427600	110.4	70	130	
Tb	159	1	2332905	0.59	2301159	101.4	70	130	
Tb	159	2	1390210	0.01	1322531	105.1	70	130	
Ho	165	1	2221363	0.90	2203645	100.8	70	130	
Ho	165	2	1368849	0.46	1300814	105.2	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Continuing Calibration Blank (CCB) - US EPA Method 6020

Sample Name	**CCB V-397368**
Data File Name	**0196CCB.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T11:52:29-04:00**
Type	**6-CCB**
VialNumber	**1202**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	Units	QC High	QC Flag
Be	9	165	1	0.01	ppb	1	
Na	23	115	2	5.11	ppb	500	
Mg	24	115	2	-0.15	ppb	500	
Al	27	115	2	0.50	ppb	500	
K	39	115	2	7.00	ppb	500	
Ca	44	115	2	-2.95	ppb	500	
V	51	115	2	-0.03	ppb	1	
Cr	52	115	2	0.06	ppb	2	
Mn	55	115	2	-0.03	ppb	6	
Fe	56	115	2	7.35	ppb	500	
Co	59	115	2	0.00	ppb	2	
Ni	60	115	2	-0.01	ppb	3	
Cu	65	115	2	-0.06	ppb	10	
Zn	66	115	2	-0.04	ppb	20	
As	75	115	2	0.04	ppb	1	
Se	78	115	2	0.60	ppb	10	
Mo	95	115	1	0.13	ppb	1	
Ag	107	115	1	0.09	ppb	1	
Cd	111	115	1	0.00	ppb	2	
Sb	121	115	1	0.00	ppb	4	
Ba	137	159	1	-0.03	ppb	5	
Tl	205	165	1	0.09	ppb	2	
Pb	208	165	1	-0.13	ppb	2	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1515332	0.61	1473315	102.9	70	130	
Sc	45	2	57404	1.57	51570	111.3	70	130	
In	115	1	2017286	1.27	1904177	105.9	70	130	
In	115	2	467712	0.56	427600	109.4	70	130	
Tb	159	1	2380694	0.68	2301159	103.5	70	130	
Tb	159	2	1374039	0.97	1322531	103.9	70	130	
Ho	165	1	2294982	0.07	2203645	104.1	70	130	
Ho	165	2	1355635	0.71	1300814	104.2	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**MB 107880**
Data File Name	**020SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T11:56:59-04:00**
Type	**Sample**
VialNumber	**2201**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.00	0.00	ppb	47	25.76	550	
Na	23	115	2	12.18	12.18	ppb	53982	0.28	220000	
Mg	24	115	2	0.21	0.21	ppb	559	1.92	220000	
Al	27	115	2	0.62	0.62	ppb	419	13.35	181500	
K	39	115	2	7.48	7.48	ppb	38811	0.97	220000	
Ca	44	115	2	-2.17	-2.17	ppb	334	6.41	220000	
V	51	115	2	-0.02	-0.02	ppb	689	5.31	550	
Cr	52	115	2	0.02	0.02	ppb	892	10.38	550	
Mn	55	115	2	0.04	0.04	ppb	774	1.24	2750	
Fe	56	115	2	4.52	4.52	ppb	71328	4.70	220000	
Co	59	115	2	0.00	0.00	ppb	103	17.07	550	
Ni	60	115	2	-0.01	-0.01	ppb	202	11.58	550	
Cu	65	115	2	-0.01	-0.01	ppb	1296	11.25	2750	
Zn	66	115	2	0.79	0.79	ppb	2740	1.91	2750	
As	75	115	2	0.03	0.03	ppb	66	12.87	550	
Se	78	115	2	0.28	0.28	ppb	79	1.62	2750	
Mo	95	115	1	0.05	0.05	ppb	1167	6.08	550	
Ag	107	115	1	0.10	0.10	ppb	4380	13.50	550	
Cd	111	115	1	0.00	0.00	ppb	28	17.44	550	
Sb	121	115	1	0.62	0.62	ppb	26504	0.59	550	
Ba	137	159	1	0.02	0.02	ppb	1021	1.68	2750	
Tl	205	165	1	0.01	0.01	ppb	2677	10.45	550	
Pb	208	165	1	4.93	4.93	ppb	231406	0.37	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1583569	0.98	1473315	107.5	70	130	
Sc	45	2	57909	1.29	51570	112.3	70	130	
In	115	1	2003244	0.49	1904177	105.2	70	130	
In	115	2	468740	1.47	427600	109.6	70	130	
Tb	159	1	2386802	0.26	2301159	103.7	70	130	
Tb	159	2	1372120	0.78	1322531	103.7	70	130	
Ho	165	1	2296367	0.88	2203645	104.2	70	130	
Ho	165	2	1349669	0.70	1300814	103.8	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**LCS 107880**
Data File Name	**021SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T12:01:30-04:00**
Type	**Sample**
VialNumber	**2202**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	126.71	126.71	ppb	1037619	0.63	550	
Na	23	115	2	3457.73	3457.73	ppb	4485400	0.59	220000	
Mg	24	115	2	2876.47	2876.47	ppb	1688388	1.18	220000	
Al	27	115	2	6986.62	6986.62	ppb	1337574	1.24	181500	
K	39	115	2	1931.54	1931.54	ppb	1205885	1.61	220000	
Ca	44	115	2	7315.28	7315.28	ppb	225127	0.66	220000	
V	51	115	2	78.21	78.21	ppb	686988	0.76	550	
Cr	52	115	2	44.95	44.95	ppb	507294	0.83	550	
Mn	55	115	2	491.39	491.39	ppb	2816672	1.51	2750	
Fe	56	115	2	12668.71	12668.71	ppb	115032346	0.92	220000	
Co	59	115	2	55.19	55.19	ppb	1054149	1.04	550	
Ni	60	115	2	134.29	134.29	ppb	693277	0.63	550	
Cu	65	115	2	146.70	146.70	ppb	1058699	0.97	2750	
Zn	66	115	2	225.86	225.86	ppb	396276	0.94	2750	
As	75	115	2	91.89	91.89	ppb	112805	0.63	550	
Se	78	115	2	132.19	132.19	ppb	10712	2.41	2750	
Mo	95	115	1	86.25	86.25	ppb	1521909	0.65	550	
Ag	107	115	1	24.86	24.86	ppb	1073611	0.82	550	
Cd	111	115	1	66.84	66.84	ppb	509578	0.54	550	
Sb	121	115	1	69.00	69.00	ppb	2210346	1.77	550	
Ba	137	159	1	232.11	232.11	ppb	3016753	1.50	2750	
Tl	205	165	1	72.27	72.27	ppb	4639728	1.33	550	
Pb	208	165	1	68.96	68.96	ppb	3134927	0.63	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1820572	0.53	1473315	123.6	70	130	
Sc	45	2	65449	0.69	51570	126.9	70	130	
In	115	1	2047471	0.81	1904177	107.5	70	130	
In	115	2	472820	1.43	427600	110.6	70	130	
Tb	159	1	2522187	0.42	2301159	109.6	70	130	
Tb	159	2	1431307	0.90	1322531	108.2	70	130	
Ho	165	1	2378363	1.13	2203645	107.9	70	130	
Ho	165	2	1406681	1.28	1300814	108.1	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**LCS MR 107880**
Data File Name	**022SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T12:05:52-04:00**
Type	**Sample**
VialNumber	**2203**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	119.28	119.28	ppb	975859	2.25	550	
Na	23	115	2	3480.28	3480.28	ppb	4539742	0.78	220000	
Mg	24	115	2	2816.11	2816.11	ppb	1662052	1.23	220000	
Al	27	115	2	6584.28	6584.28	ppb	1267532	1.85	181500	
K	39	115	2	1921.57	1921.57	ppb	1206386	1.02	220000	
Ca	44	115	2	6945.90	6945.90	ppb	214964	1.07	220000	
V	51	115	2	74.99	74.99	ppb	662368	1.38	550	
Cr	52	115	2	43.29	43.29	ppb	491251	0.58	550	
Mn	55	115	2	466.00	466.00	ppb	2686138	1.31	2750	
Fe	56	115	2	12123.97	12123.97	ppb	110689362	0.69	220000	
Co	59	115	2	53.29	53.29	ppb	1023515	0.41	550	
Ni	60	115	2	130.35	130.35	ppb	676667	0.30	550	
Cu	65	115	2	142.36	142.36	ppb	1033039	0.60	2750	
Zn	66	115	2	220.98	220.98	ppb	389886	0.28	2750	
As	75	115	2	86.10	86.10	ppb	106281	1.16	550	
Se	78	115	2	125.55	125.55	ppb	10232	0.71	2750	
Mo	95	115	1	83.40	83.40	ppb	1480837	0.84	550	
Ag	107	115	1	24.63	24.63	ppb	1070121	0.79	550	
Cd	111	115	1	66.64	66.64	ppb	511199	0.59	550	
Sb	121	115	1	65.30	65.30	ppb	2105301	0.14	550	
Ba	137	159	1	230.51	230.51	ppb	2970084	0.72	2750	
Tl	205	165	1	70.57	70.57	ppb	4526182	0.82	550	
Pb	208	165	1	66.86	66.86	ppb	3036418	0.80	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1790785	0.60	1473315	121.5	70	130	
Sc	45	2	64250	1.70	51570	124.6	70	130	
In	115	1	2060310	0.56	1904177	108.2	70	130	
In	115	2	475397	0.56	427600	111.2	70	130	
Tb	159	1	2500519	0.40	2301159	108.7	70	130	
Tb	159	2	1425915	0.26	1322531	107.8	70	130	
Ho	165	1	2375796	0.33	2203645	107.8	70	130	
Ho	165	2	1400338	0.71	1300814	107.7	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38629-001**
Data File Name	**023SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T12:10:14-04:00**
Type	**Sample**
VialNumber	**2309**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.78	0.78	ppb	6471	2.23	550	
Na	23	115	2	645.99	645.99	ppb	830172	0.51	220000	
Mg	24	115	2	15525.70	15525.70	ppb	8697284	0.49	220000	
Al	27	115	2	17299.62	17299.62	ppb	3161190	1.11	181500	
K	39	115	2	1697.41	1697.41	ppb	1015562	0.82	220000	
Ca	44	115	2	72315.20	72315.20	ppb	2121014	1.08	220000	
V	51	115	2	160.21	160.21	ppb	1342587	1.44	550	
Cr	52	115	2	109.74	109.74	ppb	1181314	0.89	550	
Mn	55	115	2	845.29	845.29	ppb	4625502	1.72	2750	
Fe	56	115	2	114473.95	114473.95	ppb	991994741	0.18	220000	
Co	59	115	2	36.61	36.61	ppb	667472	1.13	550	
Ni	60	115	2	95.58	95.58	ppb	471122	0.70	550	
Cu	65	115	2	1194.56	1194.56	ppb	8219631	0.55	2750	
Zn	66	115	2	1246.16	1246.16	ppb	2081242	0.03	2750	
As	75	115	2	107.14	107.14	ppb	125556	1.39	550	
Se	78	115	2	5.31	5.31	ppb	463	10.30	2750	
Mo	95	115	1	11.76	11.76	ppb	206659	1.28	550	
Ag	107	115	1	1.92	1.92	ppb	82738	0.28	550	
Cd	111	115	1	5.44	5.44	ppb	41225	0.95	550	
Sb	121	115	1	7.89	7.89	ppb	257855	1.29	550	
Ba	137	159	1	630.72	630.72	ppb	8157383	2.04	2750	
Tl	205	165	1	0.42	0.42	ppb	29172	2.15	550	
Pb	208	165	1	1537.50	1537.50	ppb	70282771	0.90	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1940255	1.83	1473315	131.7	70	130	IS Fail
Sc	45	2	67269	0.97	51570	130.4	70	130	IS Fail
In	115	1	2035888	1.49	1904177	106.9	70	130	
In	115	2	451334	0.49	427600	105.6	70	130	
Tb	159	1	2510236	0.44	2301159	109.1	70	130	
Tb	159	2	1398589	0.66	1322531	105.8	70	130	
Ho	165	1	2403744	0.80	2203645	109.1	70	130	
Ho	165	2	1385659	0.82	1300814	106.5	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38629-002**
Data File Name	**024SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T12:14:36-04:00**
Type	**Sample**
VialNumber	**2310**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	1.16	1.16	ppb	9578	1.81	550	
Na	23	115	2	3073.72	3073.72	ppb	3656207	0.96	220000	
Mg	24	115	2	15340.49	15340.49	ppb	8244707	0.75	220000	
Al	27	115	2	18038.50	18038.50	ppb	3162320	1.37	181500	
K	39	115	2	3016.65	3016.65	ppb	1706952	0.89	220000	
Ca	44	115	2	116403.09	116403.09	ppb	3275450	0.56	220000	
V	51	115	2	99.71	99.71	ppb	801974	0.97	550	
Cr	52	115	2	52.62	52.62	ppb	543770	0.96	550	
Mn	55	115	2	895.71	895.71	ppb	4702277	1.64	2750	
Fe	56	115	2	44842.18	44842.18	ppb	372838421	0.45	220000	
Co	59	115	2	17.09	17.09	ppb	299050	1.07	550	
Ni	60	115	2	140.23	140.23	ppb	663070	0.86	550	
Cu	65	115	2	1825.02	1825.02	ppb	12047740	1.16	2750	
Zn	66	115	2	1299.57	1299.57	ppb	2082308	0.94	2750	
As	75	115	2	26.32	26.32	ppb	29609	1.40	550	
Se	78	115	2	7.02	7.02	ppb	571	11.02	2750	
Mo	95	115	1	3.59	3.59	ppb	61673	2.39	550	
Ag	107	115	1	1.45	1.45	ppb	61105	1.95	550	
Cd	111	115	1	2.81	2.81	ppb	20790	0.64	550	
Sb	121	115	1	2.69	2.69	ppb	90282	0.82	550	
Ba	137	159	1	1219.81	1219.81	ppb	15694363	0.61	2750	
Tl	205	165	1	0.32	0.32	ppb	22655	0.80	550	
Pb	208	165	1	3032.22	3032.22	ppb	137721520	0.76	2750	>LDR

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1902410	0.95	1473315	129.1	70	130	
Sc	45	2	67549	0.64	51570	131.0	70	130	IS Fail
In	115	1	1982305	0.80	1904177	104.1	70	130	
In	115	2	433018	0.25	427600	101.3	70	130	
Tb	159	1	2497402	0.35	2301159	108.5	70	130	
Tb	159	2	1380968	1.12	1322531	104.4	70	130	
Ho	165	1	2388876	1.03	2203645	108.4	70	130	
Ho	165	2	1366930	0.45	1300814	105.1	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38629-003**
Data File Name	**025SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T12:18:55-04:00**
Type	**Sample**
VialNumber	**2311**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.97	0.97	ppb	8091	3.16	550	
Na	23	115	2	3736.78	3736.78	ppb	4377142	0.59	220000	
Mg	24	115	2	18216.82	18216.82	ppb	9658314	0.94	220000	
Al	27	115	2	19919.47	19919.47	ppb	3444898	1.20	181500	
K	39	115	2	2101.54	2101.54	ppb	1182544	0.73	220000	
Ca	44	115	2	134600.61	134600.61	ppb	3736052	0.83	220000	
V	51	115	2	87.38	87.38	ppb	693338	0.81	550	
Cr	52	115	2	97.06	97.06	ppb	988935	0.66	550	
Mn	55	115	2	804.04	804.04	ppb	4163862	0.50	2750	
Fe	56	115	2	56087.31	56087.31	ppb	459991478	0.10	220000	
Co	59	115	2	17.54	17.54	ppb	302759	0.17	550	
Ni	60	115	2	125.88	125.88	ppb	587174	0.94	550	
Cu	65	115	2	1082.51	1082.51	ppb	7050322	1.35	2750	
Zn	66	115	2	1889.31	1889.31	ppb	2985766	0.86	2750	
As	75	115	2	29.85	29.85	ppb	33124	1.47	550	
Se	78	115	2	5.43	5.43	ppb	447	6.95	2750	
Mo	95	115	1	13.21	13.21	ppb	229179	0.75	550	
Ag	107	115	1	0.80	0.80	ppb	34173	1.78	550	
Cd	111	115	1	5.06	5.06	ppb	37903	0.71	550	
Sb	121	115	1	12.40	12.40	ppb	395952	0.67	550	
Ba	137	159	1	682.33	682.33	ppb	8852233	0.84	2750	
Tl	205	165	1	0.23	0.23	ppb	16904	0.84	550	
Pb	208	165	1	2154.09	2154.09	ppb	99164571	0.64	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1856119	1.17	1473315	126.0	70	130	
Sc	45	2	64222	0.93	51570	124.5	70	130	
In	115	1	2010030	1.16	1904177	105.6	70	130	
In	115	2	427172	1.14	427600	99.9	70	130	
Tb	159	1	2518187	0.26	2301159	109.4	70	130	
Tb	159	2	1364554	1.39	1322531	103.2	70	130	
Ho	165	1	2421065	0.74	2203645	109.9	70	130	
Ho	165	2	1359651	1.25	1300814	104.5	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38629-004**
Data File Name	**026SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T12:23:18-04:00**
Type	**Sample**
VialNumber	**2312**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.77	0.77	ppb	6798	2.81	550	
Na	23	115	2	14624.59	14624.59	ppb	17123833	0.50	220000	
Mg	24	115	2	7256.22	7256.22	ppb	3868644	0.16	220000	
Al	27	115	2	29190.83	29190.83	ppb	5076289	1.09	181500	
K	39	115	2	3014.67	3014.67	ppb	1692154	0.87	220000	
Ca	44	115	2	56753.12	56753.12	ppb	1584369	1.48	220000	
V	51	115	2	1547.14	1547.14	ppb	12331285	0.43	550	>LDR
Cr	52	115	2	70.61	70.61	ppb	723586	0.58	550	
Mn	55	115	2	514.34	514.34	ppb	2678658	0.86	2750	
Fe	56	115	2	53577.97	53577.97	ppb	441880580	0.38	220000	
Co	59	115	2	12.81	12.81	ppb	222326	1.34	550	
Ni	60	115	2	95.41	95.41	ppb	447566	0.91	550	
Cu	65	115	2	165.71	165.71	ppb	1086268	0.73	2750	
Zn	66	115	2	3650.09	3650.09	ppb	5799498	1.27	2750	>LDR
As	75	115	2	13.65	13.65	ppb	15246	2.87	550	
Se	78	115	2	5.84	5.84	ppb	480	7.78	2750	
Mo	95	115	1	17.83	17.83	ppb	306241	0.83	550	
Ag	107	115	1	0.48	0.48	ppb	20547	2.99	550	
Cd	111	115	1	6.25	6.25	ppb	46354	0.55	550	
Sb	121	115	1	1.05	1.05	ppb	39671	1.21	550	
Ba	137	159	1	432.72	432.72	ppb	5833479	1.67	2750	
Tl	205	165	1	0.15	0.15	ppb	12533	0.78	550	
Pb	208	165	1	869.15	869.15	ppb	41999362	0.48	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1838770	1.19	1473315	124.8	70	130	
Sc	45	2	63355	0.78	51570	122.9	70	130	
In	115	1	1991471	0.79	1904177	104.6	70	130	
In	115	2	429536	0.65	427600	100.5	70	130	
Tb	159	1	2616558	1.75	2301159	113.7	70	130	
Tb	159	2	1417598	1.02	1322531	107.2	70	130	
Ho	165	1	2540980	1.83	2203645	115.3	70	130	
Ho	165	2	1423416	0.38	1300814	109.4	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38629-005**
Data File Name	**027SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T12:27:38-04:00**
Type	**Sample**
VialNumber	**2401**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	1.44	1.44	ppb	12146	0.48	550	
Na	23	115	2	2196.40	2196.40	ppb	2679688	1.18	220000	
Mg	24	115	2	10305.76	10305.76	ppb	5659104	1.09	220000	
Al	27	115	2	24826.49	24826.49	ppb	4446746	1.36	181500	
K	39	115	2	2912.16	2912.16	ppb	1684630	1.80	220000	
Ca	44	115	2	48181.31	48181.31	ppb	1385385	1.17	220000	
V	51	115	2	95.86	95.86	ppb	787703	1.34	550	
Cr	52	115	2	73.48	73.48	ppb	775494	0.55	550	
Mn	55	115	2	1511.79	1511.79	ppb	8107946	0.48	2750	
Fe	56	115	2	194501.14	194501.14	ppb	1652040438	0.62	220000	
Co	59	115	2	23.47	23.47	ppb	419570	1.32	550	
Ni	60	115	2	81.84	81.84	ppb	395467	0.57	550	
Cu	65	115	2	827.71	827.71	ppb	5583324	1.06	2750	
Zn	66	115	2	943.02	943.02	ppb	1544063	0.66	2750	
As	75	115	2	66.34	66.34	ppb	76214	1.22	550	
Se	78	115	2	6.64	6.64	ppb	554	2.31	2750	
Mo	95	115	1	9.42	9.42	ppb	166593	1.85	550	
Ag	107	115	1	0.99	0.99	ppb	43236	0.94	550	
Cd	111	115	1	2.77	2.77	ppb	21139	1.29	550	
Sb	121	115	1	2.63	2.63	ppb	91367	0.27	550	
Ba	137	159	1	384.52	384.52	ppb	5043879	0.47	2750	
Tl	205	165	1	0.36	0.36	ppb	25691	2.10	550	
Pb	208	165	1	1773.47	1773.47	ppb	82301467	1.31	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	2183817	0.91	1473315	148.2	70	130	IS Fail
Sc	45	2	75222	0.73	51570	145.9	70	130	IS Fail
In	115	1	2047340	0.07	1904177	107.5	70	130	
In	115	2	442405	0.99	427600	103.5	70	130	
Tb	159	1	2545896	0.45	2301159	110.6	70	130	
Tb	159	2	1378020	0.66	1322531	104.2	70	130	
Ho	165	1	2440642	1.24	2203645	110.8	70	130	
Ho	165	2	1363213	1.16	1300814	104.8	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38571-016**
Data File Name	**028SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T12:32:00-04:00**
Type	**Sample**
VialNumber	**2402**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.81	0.81	ppb	6901	3.17	550	
Na	23	115	2	705.51	705.51	ppb	838368	0.44	220000	
Mg	24	115	2	18834.15	18834.15	ppb	9793058	0.91	220000	
Al	27	115	2	22658.22	22658.22	ppb	3842814	0.93	181500	
K	39	115	2	1532.67	1532.67	ppb	854127	0.83	220000	
Ca	44	115	2	64688.04	64688.04	ppb	1761089	1.19	220000	
V	51	115	2	123.86	123.86	ppb	963610	0.87	550	
Cr	52	115	2	40.91	40.91	ppb	409183	1.31	550	
Mn	55	115	2	836.31	836.31	ppb	4247579	0.70	2750	
Fe	56	115	2	45785.20	45785.20	ppb	368271283	0.52	220000	
Co	59	115	2	25.77	25.77	ppb	436253	1.15	550	
Ni	60	115	2	53.80	53.80	ppb	246237	1.16	550	
Cu	65	115	2	124.16	124.16	ppb	794111	0.98	2750	
Zn	66	115	2	307.07	307.07	ppb	476962	1.86	2750	
As	75	115	2	6.91	6.91	ppb	7535	2.43	550	
Se	78	115	2	4.20	4.20	ppb	351	4.43	2750	
Mo	95	115	1	5.66	5.66	ppb	97304	1.50	550	
Ag	107	115	1	0.26	0.26	ppb	11273	2.61	550	
Cd	111	115	1	1.41	1.41	ppb	10446	0.50	550	
Sb	121	115	1	0.06	0.06	ppb	8865	0.91	550	
Ba	137	159	1	91.71	91.71	ppb	1202033	0.57	2750	
Tl	205	165	1	0.11	0.11	ppb	8973	1.55	550	
Pb	208	165	1	48.16	48.16	ppb	2266981	0.62	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	2055353	0.93	1473315	139.5	70	130	IS Fail
Sc	45	2	70497	1.63	51570	136.7	70	130	IS Fail
In	115	1	1989241	0.43	1904177	104.5	70	130	
In	115	2	418945	1.14	427600	98.0	70	130	
Tb	159	1	2542987	1.96	2301159	110.5	70	130	
Tb	159	2	1372910	0.91	1322531	103.8	70	130	
Ho	165	1	2457093	0.49	2203645	111.5	70	130	
Ho	165	2	1376286	0.60	1300814	105.8	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**RINSE**
Data File Name	**029SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T12:36:26-04:00**
Type	**Sample**
VialNumber	**1101**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.00	0.00	ppb	28	48.51	550	
Na	23	115	2	-10.78	-10.78	ppb	23386	1.62	220000	
Mg	24	115	2	0.11	0.11	ppb	474	7.31	220000	
Al	27	115	2	-0.28	-0.28	ppb	236	9.00	181500	
K	39	115	2	1.33	1.33	ppb	33232	0.42	220000	
Ca	44	115	2	-4.89	-4.89	ppb	238	16.90	220000	
V	51	115	2	-0.09	-0.09	ppb	66	36.08	550	
Cr	52	115	2	-0.03	-0.03	ppb	310	17.96	550	
Mn	55	115	2	-0.01	-0.01	ppb	468	15.02	2750	
Fe	56	115	2	9.68	9.68	ppb	111458	3.03	220000	
Co	59	115	2	0.00	0.00	ppb	80	11.02	550	
Ni	60	115	2	-0.02	-0.02	ppb	126	26.73	550	
Cu	65	115	2	0.02	0.02	ppb	1425	2.66	2750	
Zn	66	115	2	-0.19	-0.19	ppb	985	4.30	2750	
As	75	115	2	0.00	0.00	ppb	26	17.39	550	
Se	78	115	2	0.15	0.15	ppb	65	15.75	2750	
Mo	95	115	1	0.03	0.03	ppb	784	13.32	550	
Ag	107	115	1	0.51	0.51	ppb	21320	13.57	550	
Cd	111	115	1	0.00	0.00	ppb	41	40.66	550	
Sb	121	115	1	-0.19	-0.19	ppb	1318	8.99	550	
Ba	137	159	1	-0.04	-0.04	ppb	318	38.91	2750	
Tl	205	165	1	0.00	0.00	ppb	1735	9.81	550	
Pb	208	165	1	-0.05	-0.05	ppb	13547	1.10	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1423645	0.66	1473315	96.6	70	130	
Sc	45	2	51675	1.06	51570	100.2	70	130	
In	115	1	1960140	1.21	1904177	102.9	70	130	
In	115	2	443532	1.38	427600	103.7	70	130	
Tb	159	1	2348871	0.48	2301159	102.1	70	130	
Tb	159	2	1321839	0.51	1322531	99.9	70	130	
Ho	165	1	2211193	1.35	2203645	100.3	70	130	
Ho	165	2	1303346	0.31	1300814	100.2	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Continuing Calibration Verification (CCV) - US EPA Method 6020

Sample Name	**CCV V-397371**
Data File Name	**0306CCV.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T12:40:56-04:00**
Type	**6-CCV**
VialNumber	**1201**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	Conc	Units	Expected	CPS	%RSD	%Rec	%QC Low	%QC High	QC Flag
Be	9	165	1	47.82	ppb	50	376290	1.26	95.65	90	110	
Na	23	115	2	4968.94	ppb	5000	5927233	0.65	99.38	90	110	
Mg	24	115	2	5056.45	ppb	5000	2735939	1.38	101.13	90	110	
Al	27	115	2	1510.49	ppb	1500	266830	1.23	100.70	90	110	
K	39	115	2	4985.68	ppb	5000	2818879	0.36	99.71	90	110	
Ca	44	115	2	5146.12	ppb	5000	146111	0.43	102.92	90	110	
V	51	115	2	51.47	ppb	50	417141	0.94	102.95	90	110	
Cr	52	115	2	51.26	ppb	50	533194	0.48	102.51	90	110	
Mn	55	115	2	51.30	ppb	50	271579	0.31	102.60	90	110	
Fe	56	115	2	5197.43	ppb	5000	43524898	0.83	103.95	90	110	
Co	59	115	2	51.08	ppb	50	899480	0.61	102.16	90	110	
Ni	60	115	2	51.79	ppb	50	246625	0.89	103.57	90	110	
Cu	65	115	2	51.50	ppb	50	343518	1.28	103.01	90	110	
Zn	66	115	2	51.61	ppb	50	84469	2.03	103.22	90	110	
As	75	115	2	51.65	ppb	50	58479	1.88	103.31	90	110	
Se	78	115	2	252.37	ppb	250	18806	1.41	100.95	90	110	
Mo	95	115	1	47.80	ppb	50	819857	0.96	95.60	90	110	
Ag	107	115	1	50.77	ppb	50	2130599	0.84	101.55	90	110	
Cd	111	115	1	49.10	ppb	50	363801	1.18	98.21	90	110	
Sb	121	115	1	49.96	ppb	50	1557261	0.40	99.92	90	110	
Ba	137	159	1	50.14	ppb	50	618259	0.64	100.29	90	110	
Tl	205	165	1	49.33	ppb	50	3043022	0.51	98.66	90	110	
Pb	208	165	1	48.91	ppb	50	2140887	1.65	97.82	90	110	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1554331	1.24	1473315	105.5	70	130	
Sc	45	2	52443	0.88	51570	101.7	70	130	
In	115	1	1989757	0.39	1904177	104.5	70	130	
In	115	2	435921	1.51	427600	101.9	70	130	
Tb	159	1	2390361	0.48	2301159	103.9	70	130	
Tb	159	2	1338240	0.37	1322531	101.2	70	130	
Ho	165	1	2285059	1.28	2203645	103.7	70	130	
Ho	165	2	1313877	0.31	1300814	101.0	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Continuing Calibration Blank (CCB) - US EPA Method 6020

Sample Name	**CCB V-397368**
Data File Name	**0316CCB.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T12:45:18-04:00**
Type	**6-CCB**
VialNumber	**1202**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	Units	QC High	QC Flag
Be	9	165	1	0.01	ppb	1	
Na	23	115	2	-7.44	ppb	500	
Mg	24	115	2	0.10	ppb	500	
Al	27	115	2	0.22	ppb	500	
K	39	115	2	1.05	ppb	500	
Ca	44	115	2	-5.00	ppb	500	
V	51	115	2	-0.06	ppb	1	
Cr	52	115	2	0.06	ppb	2	
Mn	55	115	2	-0.03	ppb	6	
Fe	56	115	2	8.58	ppb	500	
Co	59	115	2	0.00	ppb	2	
Ni	60	115	2	-0.02	ppb	3	
Cu	65	115	2	-0.07	ppb	10	
Zn	66	115	2	-0.05	ppb	20	
As	75	115	2	0.03	ppb	1	
Se	78	115	2	0.22	ppb	10	
Mo	95	115	1	0.09	ppb	1	
Ag	107	115	1	0.05	ppb	1	
Cd	111	115	1	0.00	ppb	2	
Sb	121	115	1	-0.05	ppb	4	
Ba	137	159	1	-0.03	ppb	5	
Tl	205	165	1	0.06	ppb	2	
Pb	208	165	1	-0.15	ppb	2	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1494371	0.14	1473315	101.4	70	130	
Sc	45	2	51649	2.09	51570	100.2	70	130	
In	115	1	2015880	0.20	1904177	105.9	70	130	
In	115	2	431809	1.04	427600	101.0	70	130	
Tb	159	1	2428352	0.17	2301159	105.5	70	130	
Tb	159	2	1319323	0.38	1322531	99.8	70	130	
Ho	165	1	2310546	0.58	2203645	104.9	70	130	
Ho	165	2	1291703	0.25	1300814	99.3	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38586-001**
Data File Name	**032SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T12:49:50-04:00**
Type	**Sample**
VialNumber	**2204**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	1.46	1.46	ppb	12099	1.53	550	
Na	23	115	2	1170.97	1170.97	ppb	1472341	0.55	220000	
Mg	24	115	2	1589.83	1589.83	ppb	889571	1.23	220000	
Al	27	115	2	4981.20	4981.20	ppb	908973	1.38	181500	
K	39	115	2	3404.61	3404.61	ppb	2000688	1.99	220000	
Ca	44	115	2	14463.76	14463.76	ppb	423883	1.28	220000	
V	51	115	2	44.68	44.68	ppb	374474	1.39	550	
Cr	52	115	2	36.68	36.68	ppb	394656	0.49	550	
Mn	55	115	2	296.25	296.25	ppb	1618677	0.46	2750	
Fe	56	115	2	76721.65	76721.65	ppb	663767408	0.71	220000	
Co	59	115	2	16.10	16.10	ppb	293111	0.72	550	
Ni	60	115	2	33.83	33.83	ppb	166634	0.68	550	
Cu	65	115	2	301.13	301.13	ppb	2069734	1.01	2750	
Zn	66	115	2	366.17	366.17	ppb	611531	1.59	2750	
As	75	115	2	288.29	288.29	ppb	337255	0.94	550	
Se	78	115	2	58.53	58.53	ppb	4551	2.78	2750	
Mo	95	115	1	41.87	41.87	ppb	759580	0.14	550	
Ag	107	115	1	1.14	1.14	ppb	50912	1.18	550	
Cd	111	115	1	1.15	1.15	ppb	9074	1.62	550	
Sb	121	115	1	38.79	38.79	ppb	1280538	0.30	550	
Ba	137	159	1	618.58	618.58	ppb	8060783	0.97	2750	
Tl	205	165	1	6.75	6.75	ppb	439109	0.30	550	
Pb	208	165	1	1436.13	1436.13	ppb	65528874	0.61	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	2064300	0.30	1473315	140.1	70	130	IS Fail
Sc	45	2	71330	0.89	51570	138.3	70	130	IS Fail
In	115	1	2104712	0.23	1904177	110.5	70	130	
In	115	2	450626	1.27	427600	105.4	70	130	
Tb	159	1	2529265	0.52	2301159	109.9	70	130	
Tb	159	2	1371308	1.57	1322531	103.7	70	130	
Ho	165	1	2399475	0.81	2203645	108.9	70	130	
Ho	165	2	1357743	1.81	1300814	104.4	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38586-001 MR**
Data File Name	**033SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T12:54:12-04:00**
Type	**Sample**
VialNumber	**2205**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	1.63	1.63	ppb	13765	2.50	550	
Na	23	115	2	1015.93	1015.93	ppb	1257149	0.81	220000	
Mg	24	115	2	4364.65	4364.65	ppb	2393551	1.08	220000	
Al	27	115	2	9929.61	9929.61	ppb	1776166	1.99	181500	
K	39	115	2	3130.79	3130.79	ppb	1806119	0.63	220000	
Ca	44	115	2	19164.46	19164.46	ppb	550494	1.28	220000	
V	51	115	2	45.80	45.80	ppb	376231	0.69	550	
Cr	52	115	2	38.26	38.26	ppb	403550	0.94	550	
Mn	55	115	2	1468.71	1468.71	ppb	7865777	0.38	2750	
Fe	56	115	2	85983.31	85983.31	ppb	729336656	0.79	220000	
Co	59	115	2	45.39	45.39	ppb	810053	0.40	550	
Ni	60	115	2	52.65	52.65	ppb	254123	0.35	550	
Cu	65	115	2	259.76	259.76	ppb	1750622	1.11	2750	
Zn	66	115	2	495.22	495.22	ppb	810351	1.32	2750	
As	75	115	2	194.85	194.85	ppb	223491	1.41	550	
Se	78	115	2	39.31	39.31	ppb	3014	0.34	2750	
Mo	95	115	1	32.86	32.86	ppb	586605	0.68	550	
Ag	107	115	1	0.83	0.83	ppb	36503	2.38	550	
Cd	111	115	1	1.41	1.41	ppb	10864	1.99	550	
Sb	121	115	1	35.71	35.71	ppb	1160228	0.52	550	
Ba	137	159	1	542.97	542.97	ppb	7195667	0.45	2750	
Tl	205	165	1	5.65	5.65	ppb	374351	1.43	550	
Pb	208	165	1	1113.84	1113.84	ppb	51708793	1.26	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	2079013	0.45	1473315	141.1	70	130	IS Fail
Sc	45	2	72269	1.24	51570	140.1	70	130	IS Fail
In	115	1	2070683	1.51	1904177	108.7	70	130	
In	115	2	441769	0.45	427600	103.3	70	130	
Tb	159	1	2572260	0.38	2301159	111.8	70	130	
Tb	159	2	1383441	0.57	1322531	104.6	70	130	
Ho	165	1	2440942	0.48	2203645	110.8	70	130	
Ho	165	2	1360506	0.82	1300814	104.6	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38586-001 SD**
Data File Name	**034SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T12:58:33-04:00**
Type	**Sample**
VialNumber	**2209**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.32	0.32	ppb	2527	6.41	550	
Na	23	115	2	221.52	221.52	ppb	302135	0.62	220000	
Mg	24	115	2	333.60	333.60	ppb	183114	0.28	220000	
Al	27	115	2	1059.10	1059.10	ppb	189483	0.30	181500	
K	39	115	2	703.33	703.33	ppb	430359	0.57	220000	
Ca	44	115	2	3033.82	3033.82	ppb	87363	0.19	220000	
V	51	115	2	9.23	9.23	ppb	76397	2.11	550	
Cr	52	115	2	7.54	7.54	ppb	80013	1.18	550	
Mn	55	115	2	60.06	60.06	ppb	321820	0.84	2750	
Fe	56	115	2	16056.24	16056.24	ppb	136069266	0.61	220000	
Co	59	115	2	3.36	3.36	ppb	59891	1.54	550	
Ni	60	115	2	7.06	7.06	ppb	34229	0.93	550	
Cu	65	115	2	60.28	60.28	ppb	406784	0.51	2750	
Zn	66	115	2	81.53	81.53	ppb	134336	1.51	2750	
As	75	115	2	61.20	61.20	ppb	70138	1.17	550	
Se	78	115	2	13.25	13.25	ppb	1051	4.99	2750	
Mo	95	115	1	8.79	8.79	ppb	152720	0.40	550	
Ag	107	115	1	0.24	0.24	ppb	10621	1.72	550	
Cd	111	115	1	0.25	0.25	ppb	1898	4.43	550	
Sb	121	115	1	8.19	8.19	ppb	264320	0.83	550	
Ba	137	159	1	132.75	132.75	ppb	1630789	1.04	2750	
Tl	205	165	1	1.45	1.45	ppb	90771	1.24	550	
Pb	208	165	1	312.02	312.02	ppb	13489332	0.31	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1587188	1.46	1473315	107.7	70	130	
Sc	45	2	55816	2.11	51570	108.2	70	130	
In	115	1	2012202	0.37	1904177	105.7	70	130	
In	115	2	441307	1.03	427600	103.2	70	130	
Tb	159	1	2383817	0.88	2301159	103.6	70	130	
Tb	159	2	1330157	1.19	1322531	100.6	70	130	
Ho	165	1	2271209	0.26	2203645	103.1	70	130	
Ho	165	2	1313947	0.73	1300814	101.0	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38586-007 MS 1**
Data File Name	**035SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T13:03:00-04:00**
Type	**Sample**
VialNumber	**2206**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	193.89	193.89	ppb	1596588	0.79	550	
Na	23	115	2	21801.38	21801.38	ppb	26003480	0.16	220000	
Mg	24	115	2	23937.45	23937.45	ppb	13010412	1.46	220000	
Al	27	115	2	10965.05	10965.05	ppb	1943893	0.80	181500	
K	39	115	2	23113.25	23113.25	ppb	13011888	0.79	220000	
Ca	44	115	2	46739.53	46739.53	ppb	1330052	0.43	220000	
V	51	115	2	258.43	258.43	ppb	2100458	0.41	550	
Cr	52	115	2	259.55	259.55	ppb	2709875	1.24	550	
Mn	55	115	2	554.08	554.08	ppb	2942106	2.36	2750	
Fe	56	115	2	74825.83	74825.83	ppb	629088604	0.36	220000	
Co	59	115	2	235.63	235.63	ppb	4167626	0.65	550	
Ni	60	115	2	247.15	247.15	ppb	1181560	0.59	550	
Cu	65	115	2	569.58	569.58	ppb	3803044	0.51	2750	
Zn	66	115	2	617.90	617.90	ppb	1001903	1.16	2750	
As	75	115	2	424.90	424.90	ppb	483037	1.09	550	
Se	78	115	2	234.92	234.92	ppb	17587	0.35	2750	
Mo	95	115	1	227.98	227.98	ppb	4044053	0.71	550	
Ag	107	115	1	39.80	39.80	ppb	1727806	1.10	550	
Cd	111	115	1	208.58	208.58	ppb	1598909	1.75	550	
Sb	121	115	1	134.08	134.08	ppb	4311366	1.11	550	
Ba	137	159	1	740.46	740.46	ppb	9596146	1.34	2750	
Tl	205	165	1	159.92	159.92	ppb	10320379	0.77	550	
Pb	208	165	1	1402.10	1402.10	ppb	63761786	0.83	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	2016317	0.40	1473315	136.9	70	130	IS Fail
Sc	45	2	68651	1.40	51570	133.1	70	130	IS Fail
In	115	1	2058924	2.07	1904177	108.1	70	130	
In	115	2	437925	1.58	427600	102.4	70	130	
Tb	159	1	2515462	0.69	2301159	109.3	70	130	
Tb	159	2	1343218	0.77	1322531	101.6	70	130	
Ho	165	1	2391316	0.40	2203645	108.5	70	130	
Ho	165	2	1329198	0.91	1300814	102.2	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38586-008 MS 2**
Data File Name	**036SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T13:07:11-04:00**
Type	**Sample**
VialNumber	**2207**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	191.25	191.25	ppb	1541326	1.52	550	
Na	23	115	2	20329.69	20329.69	ppb	24611746	0.55	220000	
Mg	24	115	2	20545.20	20545.20	ppb	11331329	0.44	220000	
Al	27	115	2	7443.63	7443.63	ppb	1339329	0.20	181500	
K	39	115	2	21859.22	21859.22	ppb	12489911	0.90	220000	
Ca	44	115	2	36361.58	36361.58	ppb	1050256	0.72	220000	
V	51	115	2	239.01	239.01	ppb	1971481	1.21	550	
Cr	52	115	2	233.14	233.14	ppb	2470164	0.30	550	
Mn	55	115	2	436.47	436.47	ppb	2351699	0.61	2750	
Fe	56	115	2	63574.47	63574.47	ppb	542431747	0.41	220000	
Co	59	115	2	213.00	213.00	ppb	3823619	0.50	550	
Ni	60	115	2	223.44	223.44	ppb	1084049	0.78	550	
Cu	65	115	2	1326.07	1326.07	ppb	8983840	0.49	2750	
Zn	66	115	2	428.31	428.31	ppb	705157	0.24	2750	
As	75	115	2	453.28	453.28	ppb	522921	0.61	550	
Se	78	115	2	237.67	237.67	ppb	18057	1.34	2750	
Mo	95	115	1	218.77	218.77	ppb	3924397	1.21	550	
Ag	107	115	1	37.95	37.95	ppb	1666276	0.91	550	
Cd	111	115	1	183.39	183.39	ppb	1421434	0.53	550	
Sb	121	115	1	164.58	164.58	ppb	5349746	0.58	550	
Ba	137	159	1	725.61	725.61	ppb	9234171	0.72	2750	
Tl	205	165	1	147.66	147.66	ppb	9327330	0.42	550	
Pb	208	165	1	1269.37	1269.37	ppb	56501427	0.65	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1898952	0.48	1473315	128.9	70	130	
Sc	45	2	64789	0.64	51570	125.6	70	130	
In	115	1	2081711	0.51	1904177	109.3	70	130	
In	115	2	444367	0.15	427600	103.9	70	130	
Tb	159	1	2470394	1.63	2301159	107.4	70	130	
Tb	159	2	1334695	0.81	1322531	100.9	70	130	
Ho	165	1	2340478	0.10	2203645	106.2	70	130	
Ho	165	2	1320487	0.61	1300814	101.5	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38586-001 PS**
Data File Name	**037SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T13:11:23-04:00**
Type	**Sample**
VialNumber	**2208**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	47.64	47.64	ppb	390883	1.13	550	
Na	23	115	2	6315.92	6315.92	ppb	7642082	0.59	220000	
Mg	24	115	2	6738.65	6738.65	ppb	3702659	1.05	220000	
Al	27	115	2	6529.70	6529.70	ppb	1170463	2.43	181500	
K	39	115	2	8419.55	8419.55	ppb	4812291	0.48	220000	
Ca	44	115	2	19490.08	19490.08	ppb	560971	1.01	220000	
V	51	115	2	96.23	96.23	ppb	791256	1.00	550	
Cr	52	115	2	87.37	87.37	ppb	922548	1.26	550	
Mn	55	115	2	342.95	342.95	ppb	1840856	1.22	2750	
Fe	56	115	2	80108.53	80108.53	ppb	680882852	1.15	220000	
Co	59	115	2	66.29	66.29	ppb	1185415	1.37	550	
Ni	60	115	2	84.62	84.62	ppb	409141	0.45	550	
Cu	65	115	2	344.22	344.22	ppb	2324054	0.39	2750	
Zn	66	115	2	411.92	411.92	ppb	675621	1.18	2750	
As	75	115	2	337.44	337.44	ppb	387793	0.90	550	
Se	78	115	2	302.38	302.38	ppb	22871	0.72	2750	
Mo	95	115	1	93.19	93.19	ppb	1659379	1.27	550	
Ag	107	115	1	49.15	49.15	ppb	2141572	1.15	550	
Cd	111	115	1	47.88	47.88	ppb	368322	1.21	550	
Sb	121	115	1	89.28	89.28	ppb	2883655	1.37	550	
Ba	137	159	1	653.23	653.23	ppb	8398447	1.16	2750	
Tl	205	165	1	54.36	54.36	ppb	3496733	0.88	550	
Pb	208	165	1	1445.75	1445.75	ppb	65508150	0.81	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1966300	0.95	1473315	133.5	70	130	IS Fail
Sc	45	2	69181	1.61	51570	134.1	70	130	IS Fail
In	115	1	2066104	1.24	1904177	108.5	70	130	
In	115	2	442669	0.19	427600	103.5	70	130	
Tb	159	1	2495560	1.48	2301159	108.4	70	130	
Tb	159	2	1358435	0.97	1322531	102.7	70	130	
Ho	165	1	2382762	1.19	2203645	108.1	70	130	
Ho	165	2	1344188	0.97	1300814	103.3	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38629-002 5X**
Data File Name	**038SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T13:15:40-04:00**
Type	**Sample**
VialNumber	**2403**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.27	0.27	ppb	2162	5.05	550	
Na	23	115	2	546.01	546.01	ppb	680708	0.76	220000	
Mg	24	115	2	2996.47	2996.47	ppb	1615442	0.80	220000	
Al	27	115	2	3467.67	3467.67	ppb	609939	0.89	181500	
K	39	115	2	578.32	578.32	ppb	353897	0.41	220000	
Ca	44	115	2	22384.95	22384.95	ppb	632038	0.72	220000	
V	51	115	2	19.42	19.42	ppb	157285	0.45	550	
Cr	52	115	2	10.34	10.34	ppb	107675	0.68	550	
Mn	55	115	2	175.79	175.79	ppb	925982	0.75	2750	
Fe	56	115	2	8864.16	8864.16	ppb	73940033	0.73	220000	
Co	59	115	2	3.43	3.43	ppb	60195	1.10	550	
Ni	60	115	2	28.14	28.14	ppb	133651	0.41	550	
Cu	65	115	2	375.71	375.71	ppb	2488206	1.39	2750	
Zn	66	115	2	258.32	258.32	ppb	416147	0.85	2750	
As	75	115	2	5.42	5.42	ppb	6140	2.95	550	
Se	78	115	2	1.73	1.73	ppb	181	3.42	2750	
Mo	95	115	1	0.85	0.85	ppb	14792	0.71	550	
Ag	107	115	1	0.29	0.29	ppb	12271	3.37	550	
Cd	111	115	1	0.57	0.57	ppb	4208	1.78	550	
Sb	121	115	1	0.70	0.70	ppb	28739	2.04	550	
Ba	137	159	1	255.60	255.60	ppb	3126468	0.41	2750	
Tl	205	165	1	0.13	0.13	ppb	9869	2.00	550	
Pb	208	165	1	633.20	633.20	ppb	27157460	0.50	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1519682	0.91	1473315	103.1	70	130	
Sc	45	2	54382	0.71	51570	105.5	70	130	
In	115	1	1970268	1.15	1904177	103.5	70	130	
In	115	2	434295	0.95	427600	101.6	70	130	
Tb	159	1	2373756	0.33	2301159	103.2	70	130	
Tb	159	2	1341931	0.43	1322531	101.5	70	130	
Ho	165	1	2254514	0.30	2203645	102.3	70	130	
Ho	165	2	1312576	1.04	1300814	100.9	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38629-004 10X**
Data File Name	**039SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T13:20:06-04:00**
Type	**Sample**
VialNumber	**2404**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.09	0.09	ppb	753	14.62	550	
Na	23	115	2	1422.86	1422.86	ppb	1738282	1.02	220000	
Mg	24	115	2	701.18	701.18	ppb	383115	0.85	220000	
Al	27	115	2	2876.32	2876.32	ppb	512348	0.71	181500	
K	39	115	2	292.79	292.79	ppb	197331	0.69	220000	
Ca	44	115	2	5515.90	5515.90	ppb	157987	0.60	220000	
V	51	115	2	150.89	150.89	ppb	1232047	1.38	550	
Cr	52	115	2	6.84	6.84	ppb	72363	0.99	550	
Mn	55	115	2	50.57	50.57	ppb	270145	0.70	2750	
Fe	56	115	2	5351.31	5351.31	ppb	45211799	0.16	220000	
Co	59	115	2	1.27	1.27	ppb	22572	2.26	550	
Ni	60	115	2	9.63	9.63	ppb	46464	1.40	550	
Cu	65	115	2	18.32	18.32	ppb	124079	0.14	2750	
Zn	66	115	2	367.61	367.61	ppb	599117	0.18	2750	
As	75	115	2	1.42	1.42	ppb	1649	3.41	550	
Se	78	115	2	0.77	0.77	ppb	111	10.08	2750	
Mo	95	115	1	1.75	1.75	ppb	30063	2.06	550	
Ag	107	115	1	0.05	0.05	ppb	2340	9.91	550	
Cd	111	115	1	0.63	0.63	ppb	4617	1.94	550	
Sb	121	115	1	0.04	0.04	ppb	8399	1.96	550	
Ba	137	159	1	45.00	45.00	ppb	542005	0.41	2750	
Tl	205	165	1	0.04	0.04	ppb	4160	4.65	550	
Pb	208	165	1	99.79	99.79	ppb	4278994	0.32	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1499636	0.68	1473315	101.8	70	130	
Sc	45	2	52966	0.44	51570	102.7	70	130	
In	115	1	1970493	0.93	1904177	103.5	70	130	
In	115	2	439764	0.18	427600	102.8	70	130	
Tb	159	1	2334875	0.72	2301159	101.5	70	130	
Tb	159	2	1314500	0.76	1322531	99.4	70	130	
Ho	165	1	2247117	0.50	2203645	102.0	70	130	
Ho	165	2	1305310	0.60	1300814	100.3	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**MB 107880**
Data File Name	**040SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T13:24:34-04:00**
Type	**Sample**
VialNumber	**2201**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.01	0.01	ppb	103	14.06	550	
Na	23	115	2	-8.41	-8.41	ppb	25567	1.44	220000	
Mg	24	115	2	-0.13	-0.13	ppb	334	15.46	220000	
Al	27	115	2	0.33	0.33	ppb	336	4.01	181500	
K	39	115	2	3.45	3.45	ppb	33540	0.83	220000	
Ca	44	115	2	-3.26	-3.26	ppb	278	3.67	220000	
V	51	115	2	-0.06	-0.06	ppb	327	6.21	550	
Cr	52	115	2	0.05	0.05	ppb	1205	4.76	550	
Mn	55	115	2	0.05	0.05	ppb	761	15.05	2750	
Fe	56	115	2	10.88	10.88	ppb	118466	2.75	220000	
Co	59	115	2	0.00	0.00	ppb	36	42.27	550	
Ni	60	115	2	0.00	0.00	ppb	221	8.57	550	
Cu	65	115	2	-0.02	-0.02	ppb	1132	11.82	2750	
Zn	66	115	2	0.21	0.21	ppb	1585	4.45	2750	
As	75	115	2	0.06	0.06	ppb	89	13.92	550	
Se	78	115	2	0.13	0.13	ppb	62	13.94	2750	
Mo	95	115	1	0.03	0.03	ppb	870	1.01	550	
Ag	107	115	1	0.04	0.04	ppb	1966	5.18	550	
Cd	111	115	1	0.00	0.00	ppb	40	6.35	550	
Sb	121	115	1	-0.11	-0.11	ppb	3701	3.37	550	
Ba	137	159	1	-0.04	-0.04	ppb	367	19.56	2750	
Tl	205	165	1	0.01	0.01	ppb	2225	4.06	550	
Pb	208	165	1	-0.12	-0.12	ppb	10798	1.72	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1501082	0.80	1473315	101.9	70	130	
Sc	45	2	52251	2.47	51570	101.3	70	130	
In	115	1	2021235	0.55	1904177	106.1	70	130	
In	115	2	431926	0.96	427600	101.0	70	130	
Tb	159	1	2399916	0.93	2301159	104.3	70	130	
Tb	159	2	1302910	0.46	1322531	98.5	70	130	
Ho	165	1	2292155	0.35	2203645	104.0	70	130	
Ho	165	2	1283462	0.74	1300814	98.7	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**RINSE**
Data File Name	**041SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T13:29:06-04:00**
Type	**Sample**
VialNumber	**1101**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.00	0.00	ppb	59	13.08	550	
Na	23	115	2	-11.39	-11.39	ppb	22390	1.65	220000	
Mg	24	115	2	0.30	0.30	ppb	569	16.74	220000	
Al	27	115	2	-0.41	-0.41	ppb	208	27.15	181500	
K	39	115	2	3.51	3.51	ppb	34071	0.39	220000	
Ca	44	115	2	-3.63	-3.63	ppb	271	9.94	220000	
V	51	115	2	-0.09	-0.09	ppb	96	26.41	550	
Cr	52	115	2	-0.03	-0.03	ppb	358	15.60	550	
Mn	55	115	2	0.01	0.01	ppb	569	20.01	2750	
Fe	56	115	2	3.98	3.98	ppb	62112	1.97	220000	
Co	59	115	2	0.00	0.00	ppb	79	6.45	550	
Ni	60	115	2	-0.02	-0.02	ppb	136	29.13	550	
Cu	65	115	2	0.02	0.02	ppb	1412	3.70	2750	
Zn	66	115	2	-0.25	-0.25	ppb	867	7.49	2750	
As	75	115	2	0.02	0.02	ppb	43	16.97	550	
Se	78	115	2	0.11	0.11	ppb	61	19.32	2750	
Mo	95	115	1	0.02	0.02	ppb	730	11.44	550	
Ag	107	115	1	0.22	0.22	ppb	9326	13.04	550	
Cd	111	115	1	0.00	0.00	ppb	31	20.08	550	
Sb	121	115	1	-0.16	-0.16	ppb	2064	9.82	550	
Ba	137	159	1	-0.04	-0.04	ppb	310	15.84	2750	
Tl	205	165	1	0.01	0.01	ppb	2257	7.95	550	
Pb	208	165	1	-0.09	-0.09	ppb	11577	1.54	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1454387	1.62	1473315	98.7	70	130	
Sc	45	2	52194	0.89	51570	101.2	70	130	
In	115	1	1958212	1.47	1904177	102.8	70	130	
In	115	2	438324	0.86	427600	102.5	70	130	
Tb	159	1	2284484	0.98	2301159	99.3	70	130	
Tb	159	2	1298396	0.57	1322531	98.2	70	130	
Ho	165	1	2175345	0.89	2203645	98.7	70	130	
Ho	165	2	1277211	0.79	1300814	98.2	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Continuing Calibration Verification (CCV) - US EPA Method 6020

Sample Name	**CCV V-397371**
Data File Name	**0426CCV.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T13:33:38-04:00**
Type	**6-CCV**
VialNumber	**1201**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	Conc	Units	Expected	CPS	%RSD	%Rec	%QC Low	%QC High	QC Flag
Be	9	165	1	48.59	ppb	50	384631	0.93	97.18	90	110	
Na	23	115	2	5148.40	ppb	5000	6104596	1.03	102.97	90	110	
Mg	24	115	2	5199.52	ppb	5000	2796752	0.91	103.99	90	110	
Al	27	115	2	1543.29	ppb	1500	270995	0.97	102.89	90	110	
K	39	115	2	5191.77	ppb	5000	2917010	1.05	103.84	90	110	
Ca	44	115	2	5298.59	ppb	5000	149553	0.53	105.97	90	110	
V	51	115	2	53.19	ppb	50	428484	1.03	106.38	90	110	
Cr	52	115	2	52.52	ppb	50	543080	0.90	105.03	90	110	
Mn	55	115	2	52.26	ppb	50	275030	1.12	104.51	90	110	
Fe	56	115	2	5375.48	ppb	5000	44749358	0.36	107.51	90	110	
Co	59	115	2	52.43	ppb	50	917770	0.47	104.85	90	110	
Ni	60	115	2	53.36	ppb	50	252652	1.01	106.73	90	110	
Cu	65	115	2	52.12	ppb	50	345524	0.26	104.24	90	110	
Zn	66	115	2	52.11	ppb	50	84762	0.69	104.22	90	110	
As	75	115	2	52.97	ppb	50	59609	1.01	105.94	90	110	
Se	78	115	2	257.33	ppb	250	19061	1.78	102.93	90	110	
Mo	95	115	1	48.13	ppb	50	829109	0.89	96.26	90	110	
Ag	107	115	1	50.74	ppb	50	2138390	0.60	101.48	90	110	
Cd	111	115	1	49.45	ppb	50	368008	1.30	98.91	90	110	
Sb	121	115	1	50.84	ppb	50	1591412	0.15	101.68	90	110	
Ba	137	159	1	50.02	ppb	50	623150	1.00	100.03	90	110	
Tl	205	165	1	49.62	ppb	50	3079307	0.73	99.24	90	110	
Pb	208	165	1	49.13	ppb	50	2162902	0.41	98.25	90	110	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1621190	0.63	1473315	110.0	70	130	
Sc	45	2	54919	0.52	51570	106.5	70	130	
In	115	1	1998418	0.88	1904177	104.9	70	130	
In	115	2	433335	1.09	427600	101.3	70	130	
Tb	159	1	2415304	0.06	2301159	105.0	70	130	
Tb	159	2	1316638	0.52	1322531	99.6	70	130	
Ho	165	1	2298964	1.75	2203645	104.3	70	130	
Ho	165	2	1297315	0.84	1300814	99.7	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Continuing Calibration Blank (CCB) - US EPA Method 6020

Sample Name	**CCB V-397368**
Data File Name	**0436CCB.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T13:38:01-04:00**
Type	**6-CCB**
VialNumber	**1202**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	Units	QC High	QC Flag
Be	9	165	1	0.01	ppb	1	
Na	23	115	2	-10.76	ppb	500	
Mg	24	115	2	0.19	ppb	500	
Al	27	115	2	0.79	ppb	500	
K	39	115	2	1.97	ppb	500	
Ca	44	115	2	-3.87	ppb	500	
V	51	115	2	-0.03	ppb	1	
Cr	52	115	2	0.05	ppb	2	
Mn	55	115	2	-0.03	ppb	6	
Fe	56	115	2	8.54	ppb	500	
Co	59	115	2	0.00	ppb	2	
Ni	60	115	2	0.00	ppb	3	
Cu	65	115	2	-0.08	ppb	10	
Zn	66	115	2	-0.21	ppb	20	
As	75	115	2	0.05	ppb	1	
Se	78	115	2	0.41	ppb	10	
Mo	95	115	1	0.11	ppb	1	
Ag	107	115	1	0.03	ppb	1	
Cd	111	115	1	0.00	ppb	2	
Sb	121	115	1	-0.02	ppb	4	
Ba	137	159	1	-0.03	ppb	5	
Tl	205	165	1	0.06	ppb	2	
Pb	208	165	1	-0.15	ppb	2	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1473726	5.28	1473315	100.0	70	130	
Sc	45	2	53295	0.37	51570	103.3	70	130	
In	115	1	1946912	6.17	1904177	102.2	70	130	
In	115	2	434634	0.06	427600	101.6	70	130	
Tb	159	1	2363365	5.97	2301159	102.7	70	130	
Tb	159	2	1307662	0.45	1322531	98.9	70	130	
Ho	165	1	2237117	6.66	2203645	101.5	70	130	
Ho	165	2	1290919	0.58	1300814	99.2	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38622-041**
Data File Name	**044SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T13:42:33-04:00**
Type	**Sample**
VialNumber	**2210**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	1.95	1.95	ppb	17240	1.28	550	
Na	23	115	2	264.51	264.51	ppb	348743	1.06	220000	
Mg	24	115	2	8960.45	8960.45	ppb	4838663	1.04	220000	
Al	27	115	2	47166.15	47166.15	ppb	8307025	0.66	181500	
K	39	115	2	2861.69	2861.69	ppb	1628556	1.10	220000	
Ca	44	115	2	4217.80	4217.80	ppb	119603	1.18	220000	
V	51	115	2	102.90	102.90	ppb	831452	1.17	550	
Cr	52	115	2	62.69	62.69	ppb	650734	0.76	550	
Mn	55	115	2	3349.61	3349.61	ppb	17665233	0.39	2750	>LDR
Fe	56	115	2	77596.39	77596.39	ppb	648158333	0.28	220000	
Co	59	115	2	107.75	107.75	ppb	1893562	0.17	550	
Ni	60	115	2	48.50	48.50	ppb	230563	0.52	550	
Cu	65	115	2	44.73	44.73	ppb	297892	1.20	2750	
Zn	66	115	2	124.17	124.17	ppb	201033	0.65	2750	
As	75	115	2	16.86	16.86	ppb	19060	0.29	550	
Se	78	115	2	7.37	7.37	ppb	600	3.74	2750	
Mo	95	115	1	1.89	1.89	ppb	34368	1.53	550	
Ag	107	115	1	0.20	0.20	ppb	9144	5.44	550	
Cd	111	115	1	0.10	0.10	ppb	833	2.02	550	
Sb	121	115	1	0.24	0.24	ppb	15431	1.99	550	
Ba	137	159	1	331.67	331.67	ppb	4597300	0.35	2750	
Tl	205	165	1	0.38	0.38	ppb	28324	0.50	550	
Pb	208	165	1	62.20	62.20	ppb	3041657	1.24	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	3018726	0.40	1473315	204.9	70	130	IS Fail
Sc	45	2	104456	0.29	51570	202.6	70	130	IS Fail
In	115	1	2090255	1.08	1904177	109.8	70	130	
In	115	2	435056	0.89	427600	101.7	70	130	
Tb	159	1	2690481	1.63	2301159	116.9	70	130	
Tb	159	2	1439643	4.83	1322531	108.9	70	130	
Ho	165	1	2557115	0.80	2203645	116.0	70	130	
Ho	165	2	1378752	0.57	1300814	106.0	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38622-042**
Data File Name	**045SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T13:46:57-04:00**
Type	**Sample**
VialNumber	**2211**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	2.80	2.80	ppb	24869	1.50	550	
Na	23	115	2	371.25	371.25	ppb	480471	0.49	220000	
Mg	24	115	2	8142.20	8142.20	ppb	4446805	1.04	220000	
Al	27	115	2	48905.32	48905.32	ppb	8711972	1.32	181500	
K	39	115	2	2354.19	2354.19	ppb	1360683	1.02	220000	
Ca	44	115	2	10724.68	10724.68	ppb	307016	1.64	220000	
V	51	115	2	111.15	111.15	ppb	908273	0.63	550	
Cr	52	115	2	70.76	70.76	ppb	742849	0.94	550	
Mn	55	115	2	1275.23	1275.23	ppb	6802179	0.47	2750	
Fe	56	115	2	78188.31	78188.31	ppb	660562346	0.79	220000	
Co	59	115	2	30.10	30.10	ppb	534990	0.75	550	
Ni	60	115	2	41.04	41.04	ppb	197377	0.90	550	
Cu	65	115	2	76.47	76.47	ppb	514192	1.00	2750	
Zn	66	115	2	1508.97	1508.97	ppb	2456406	0.79	2750	
As	75	115	2	43.35	43.35	ppb	49545	1.80	550	
Se	78	115	2	8.45	8.45	ppb	687	2.71	2750	
Mo	95	115	1	2.46	2.46	ppb	45217	1.55	550	
Ag	107	115	1	0.29	0.29	ppb	13164	0.53	550	
Cd	111	115	1	1.32	1.32	ppb	10409	0.58	550	
Sb	121	115	1	0.42	0.42	ppb	21633	2.91	550	
Ba	137	159	1	437.97	437.97	ppb	6118651	1.06	2750	
Tl	205	165	1	0.35	0.35	ppb	26667	1.32	550	
Pb	208	165	1	3198.26	3198.26	ppb	156496913	0.27	2750	>LDR

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	2549110	0.55	1473315	173.0	70	130	IS Fail
Sc	45	2	89316	0.24	51570	173.2	70	130	IS Fail
In	115	1	2119482	0.41	1904177	111.3	70	130	
In	115	2	440034	1.46	427600	102.9	70	130	
Tb	159	1	2711473	0.47	2301159	117.8	70	130	
Tb	159	2	1462217	6.18	1322531	110.6	70	130	
Ho	165	1	2573354	0.20	2203645	116.8	70	130	
Ho	165	2	1390155	0.78	1300814	106.9	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38622-043**
Data File Name	**046SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T13:51:20-04:00**
Type	**Sample**
VialNumber	**2212**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	2.35	2.35	ppb	20684	2.97	550	
Na	23	115	2	268.13	268.13	ppb	348685	0.66	220000	
Mg	24	115	2	8845.77	8845.77	ppb	4717899	0.44	220000	
Al	27	115	2	61549.33	61549.33	ppb	10706851	0.27	181500	
K	39	115	2	3330.38	3330.38	ppb	1866799	1.47	220000	
Ca	44	115	2	5088.55	5088.55	ppb	142446	1.07	220000	
V	51	115	2	149.33	149.33	ppb	1191434	0.43	550	
Cr	52	115	2	85.71	85.71	ppb	878539	0.79	550	
Mn	55	115	2	998.71	998.71	ppb	5202730	0.43	2750	
Fe	56	115	2	99088.81	99088.81	ppb	817548734	0.77	220000	
Co	59	115	2	44.22	44.22	ppb	767622	0.83	550	
Ni	60	115	2	44.78	44.78	ppb	210278	0.30	550	
Cu	65	115	2	49.86	49.86	ppb	327892	0.74	2750	
Zn	66	115	2	275.57	275.57	ppb	439167	0.95	2750	
As	75	115	2	27.97	27.97	ppb	31226	0.62	550	
Se	78	115	2	6.65	6.65	ppb	540	4.54	2750	
Mo	95	115	1	2.65	2.65	ppb	47633	0.33	550	
Ag	107	115	1	0.19	0.19	ppb	8562	4.02	550	
Cd	111	115	1	0.25	0.25	ppb	1953	3.40	550	
Sb	121	115	1	0.22	0.22	ppb	14455	1.62	550	
Ba	137	159	1	187.48	187.48	ppb	2568024	0.53	2750	
Tl	205	165	1	0.38	0.38	ppb	28203	0.42	550	
Pb	208	165	1	161.82	161.82	ppb	7866765	0.37	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	3033780	0.70	1473315	205.9	70	130	IS Fail
Sc	45	2	104134	0.91	51570	201.9	70	130	IS Fail
In	115	1	2069312	0.40	1904177	108.7	70	130	
In	115	2	429716	0.89	427600	100.5	70	130	
Tb	159	1	2658053	0.53	2301159	115.5	70	130	
Tb	159	2	1381432	0.28	1322531	104.5	70	130	
Ho	165	1	2551208	0.99	2203645	115.8	70	130	
Ho	165	2	1362814	0.59	1300814	104.8	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38622-044**
Data File Name	**047SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T13:55:43-04:00**
Type	**Sample**
VialNumber	**2301**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	2.89	2.89	ppb	25751	1.09	550	
Na	23	115	2	180.51	180.51	ppb	245949	0.82	220000	
Mg	24	115	2	8218.83	8218.83	ppb	4377961	0.57	220000	
Al	27	115	2	58018.26	58018.26	ppb	10079889	0.86	181500	
K	39	115	2	2357.11	2357.11	ppb	1328756	0.83	220000	
Ca	44	115	2	7135.10	7135.10	ppb	199332	0.70	220000	
V	51	115	2	138.06	138.06	ppb	1100185	0.97	550	
Cr	52	115	2	81.15	81.15	ppb	830772	0.58	550	
Mn	55	115	2	1745.86	1745.86	ppb	9083263	0.77	2750	
Fe	56	115	2	89245.90	89245.90	ppb	735391225	0.62	220000	
Co	59	115	2	40.04	40.04	ppb	694213	0.50	550	
Ni	60	115	2	44.87	44.87	ppb	210439	1.02	550	
Cu	65	115	2	51.23	51.23	ppb	336378	0.46	2750	
Zn	66	115	2	960.63	960.63	ppb	1525910	1.22	2750	
As	75	115	2	69.59	69.59	ppb	77544	0.34	550	
Se	78	115	2	8.21	8.21	ppb	653	4.79	2750	
Mo	95	115	1	2.13	2.13	ppb	38723	0.42	550	
Ag	107	115	1	0.16	0.16	ppb	7616	1.30	550	
Cd	111	115	1	0.64	0.64	ppb	4993	0.57	550	
Sb	121	115	1	0.24	0.24	ppb	15422	0.67	550	
Ba	137	159	1	261.87	261.87	ppb	3621313	0.80	2750	
Tl	205	165	1	0.38	0.38	ppb	28414	1.57	550	
Pb	208	165	1	401.79	401.79	ppb	19762129	0.56	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	2696926	0.61	1473315	183.1	70	130	IS Fail
Sc	45	2	95115	1.76	51570	184.4	70	130	IS Fail
In	115	1	2088031	0.21	1904177	109.7	70	130	
In	115	2	429174	0.96	427600	100.4	70	130	
Tb	159	1	2683933	1.50	2301159	116.6	70	130	
Tb	159	2	1403693	0.43	1322531	106.1	70	130	
Ho	165	1	2584669	0.76	2203645	117.3	70	130	
Ho	165	2	1394296	0.49	1300814	107.2	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38586-002**
Data File Name	**048SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T14:00:04-04:00**
Type	**Sample**
VialNumber	**2302**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	1.65	1.65	ppb	14276	1.63	550	
Na	23	115	2	808.86	808.86	ppb	982686	0.32	220000	
Mg	24	115	2	3974.08	3974.08	ppb	2124306	1.51	220000	
Al	27	115	2	8090.82	8090.82	ppb	1410607	0.98	181500	
K	39	115	2	2671.92	2671.92	ppb	1507051	1.55	220000	
Ca	44	115	2	42336.26	42336.26	ppb	1184809	1.80	220000	
V	51	115	2	40.98	40.98	ppb	328225	0.62	550	
Cr	52	115	2	31.31	31.31	ppb	322010	1.21	550	
Mn	55	115	2	461.33	461.33	ppb	2408485	0.92	2750	
Fe	56	115	2	58376.34	58376.34	ppb	482635806	0.97	220000	
Co	59	115	2	26.27	26.27	ppb	457012	0.94	550	
Ni	60	115	2	36.02	36.02	ppb	169543	0.86	550	
Cu	65	115	2	387.48	387.48	ppb	2544307	0.60	2750	
Zn	66	115	2	426.76	426.76	ppb	680834	1.25	2750	
As	75	115	2	175.29	175.29	ppb	195965	1.00	550	
Se	78	115	2	36.74	36.74	ppb	2750	2.02	2750	
Mo	95	115	1	23.45	23.45	ppb	427537	0.56	550	
Ag	107	115	1	0.90	0.90	ppb	40539	1.15	550	
Cd	111	115	1	1.48	1.48	ppb	11651	0.76	550	
Sb	121	115	1	30.59	30.59	ppb	1016174	0.47	550	
Ba	137	159	1	386.37	386.37	ppb	5218888	0.69	2750	
Tl	205	165	1	4.56	4.56	ppb	310708	0.45	550	
Pb	208	165	1	1297.22	1297.22	ppb	61932667	0.26	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	2041485	0.22	1473315	138.6	70	130	IS Fail
Sc	45	2	69408	1.46	51570	134.6	70	130	IS Fail
In	115	1	2114389	0.73	1904177	111.0	70	130	
In	115	2	430612	1.48	427600	100.7	70	130	
Tb	159	1	2621535	0.52	2301159	113.9	70	130	
Tb	159	2	1349192	1.06	1322531	102.0	70	130	
Ho	165	1	2510701	1.26	2203645	113.9	70	130	
Ho	165	2	1329175	1.00	1300814	102.2	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38586-003**
Data File Name	**049SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T14:04:24-04:00**
Type	**Sample**
VialNumber	**2303**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.41	0.41	ppb	3486	1.95	550	
Na	23	115	2	1039.38	1039.38	ppb	1281284	0.74	220000	
Mg	24	115	2	2793.43	2793.43	ppb	1527181	1.04	220000	
Al	27	115	2	9489.92	9489.92	ppb	1692125	1.04	181500	
K	39	115	2	3028.52	3028.52	ppb	1742607	0.42	220000	
Ca	44	115	2	7799.54	7799.54	ppb	223555	1.32	220000	
V	51	115	2	82.55	82.55	ppb	675312	0.83	550	
Cr	52	115	2	18.89	18.89	ppb	198897	0.41	550	
Mn	55	115	2	360.00	360.00	ppb	1922333	0.69	2750	
Fe	56	115	2	174301.14	174301.14	ppb	1473687960	0.70	220000	
Co	59	115	2	28.86	28.86	ppb	513468	1.58	550	
Ni	60	115	2	20.58	20.58	ppb	99193	1.56	550	
Cu	65	115	2	126.12	126.12	ppb	847940	0.57	2750	
Zn	66	115	2	265.19	265.19	ppb	433163	1.67	2750	
As	75	115	2	754.26	754.26	ppb	862318	1.39	550	>LDR
Se	78	115	2	86.55	86.55	ppb	6551	1.63	2750	
Mo	95	115	1	21.66	21.66	ppb	400912	1.34	550	
Ag	107	115	1	0.65	0.65	ppb	29641	3.09	550	
Cd	111	115	1	0.21	0.21	ppb	1741	2.22	550	
Sb	121	115	1	144.57	144.57	ppb	4844768	1.19	550	
Ba	137	159	1	186.52	186.52	ppb	2446990	1.57	2750	
Tl	205	165	1	1.83	1.83	ppb	120681	2.59	550	
Pb	208	165	1	2832.17	2832.17	ppb	129699105	1.32	2750	>LDR

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	2031304	1.47	1473315	137.9	70	130	IS Fail
Sc	45	2	68693	0.91	51570	133.2	70	130	IS Fail
In	115	1	2145693	0.71	1904177	112.7	70	130	
In	115	2	440378	0.84	427600	103.0	70	130	
Tb	159	1	2545802	0.57	2301159	110.6	70	130	
Tb	159	2	1323765	1.27	1322531	100.1	70	130	
Ho	165	1	2408492	1.77	2203645	109.3	70	130	
Ho	165	2	1304678	0.59	1300814	100.3	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38586-004**
Data File Name	**050SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T14:08:49-04:00**
Type	**Sample**
VialNumber	**2304**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	2.79	2.79	ppb	25179	1.60	550	
Na	23	115	2	760.68	760.68	ppb	942739	0.68	220000	
Mg	24	115	2	9535.62	9535.62	ppb	5186773	1.37	220000	
Al	27	115	2	28921.26	28921.26	ppb	5131278	1.61	181500	
K	39	115	2	2937.36	2937.36	ppb	1682880	0.98	220000	
Ca	44	115	2	18762.63	18762.63	ppb	534634	1.40	220000	
V	51	115	2	95.77	95.77	ppb	779538	0.92	550	
Cr	52	115	2	50.95	50.95	ppb	532846	0.42	550	
Mn	55	115	2	2370.79	2370.79	ppb	12594499	0.98	2750	
Fe	56	115	2	249556.76	249556.76	ppb	2099590369	0.49	220000	>LDR
Co	59	115	2	31.98	31.98	ppb	566252	1.41	550	
Ni	60	115	2	69.07	69.07	ppb	330633	1.67	550	
Cu	65	115	2	386.36	386.36	ppb	2581910	0.76	2750	
Zn	66	115	2	242.82	242.82	ppb	394804	1.68	2750	
As	75	115	2	905.37	905.37	ppb	1030008	1.56	550	>LDR
Se	78	115	2	171.40	171.40	ppb	12859	2.77	2750	
Mo	95	115	1	24.14	24.14	ppb	444737	1.48	550	
Ag	107	115	1	0.82	0.82	ppb	37090	0.59	550	
Cd	111	115	1	1.12	1.12	ppb	8936	1.68	550	
Sb	121	115	1	6.03	6.03	ppb	208626	0.45	550	
Ba	137	159	1	363.56	363.56	ppb	5113596	1.14	2750	
Tl	205	165	1	4.39	4.39	ppb	312637	1.39	550	
Pb	208	165	1	398.07	398.07	ppb	19842585	0.85	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	2633044	2.17	1473315	178.7	70	130	IS Fail
Sc	45	2	90822	2.18	51570	176.1	70	130	IS Fail
In	115	1	2136451	1.31	1904177	112.2	70	130	
In	115	2	438244	1.62	427600	102.5	70	130	
Tb	159	1	2729882	0.71	2301159	118.6	70	130	
Tb	159	2	1453659	5.04	1322531	109.9	70	130	
Ho	165	1	2619362	0.37	2203645	118.9	70	130	
Ho	165	2	1389910	1.07	1300814	106.8	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38617-007**
Data File Name	**051SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T14:13:14-04:00**
Type	**Sample**
VialNumber	**2305**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	2.27	2.27	ppb	19361	1.28	550	
Na	23	115	2	152.43	152.43	ppb	209159	0.92	220000	
Mg	24	115	2	972.55	972.55	ppb	508665	0.24	220000	
Al	27	115	2	17498.66	17498.66	ppb	2983238	0.63	181500	
K	39	115	2	2850.05	2850.05	ppb	1569962	3.15	220000	
Ca	44	115	2	987.15	987.15	ppb	27370	1.33	220000	
V	51	115	2	91.22	91.22	ppb	713544	0.58	550	
Cr	52	115	2	103.61	103.61	ppb	1040611	0.68	550	
Mn	55	115	2	193.86	193.86	ppb	990046	0.35	2750	
Fe	56	115	2	115312.05	115312.05	ppb	932314182	0.93	220000	
Co	59	115	2	7.82	7.82	ppb	133003	0.81	550	
Ni	60	115	2	9.59	9.59	ppb	44332	1.12	550	
Cu	65	115	2	7.98	7.98	ppb	52447	1.05	2750	
Zn	66	115	2	92.63	92.63	ppb	145487	1.84	2750	
As	75	115	2	32.31	32.31	ppb	35341	1.03	550	
Se	78	115	2	5.07	5.07	ppb	415	8.47	2750	
Mo	95	115	1	0.96	0.96	ppb	17509	1.99	550	
Ag	107	115	1	0.12	0.12	ppb	5482	0.95	550	
Cd	111	115	1	0.08	0.08	ppb	628	0.89	550	
Sb	121	115	1	0.30	0.30	ppb	17355	2.21	550	
Ba	137	159	1	21.20	21.20	ppb	285609	1.10	2750	
Tl	205	165	1	0.11	0.11	ppb	9568	2.07	550	
Pb	208	165	1	15.87	15.87	ppb	764617	0.84	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	2072557	0.97	1473315	140.7	70	130	IS Fail
Sc	45	2	69738	0.02	51570	135.2	70	130	IS Fail
In	115	1	2081075	0.71	1904177	109.3	70	130	
In	115	2	421092	0.60	427600	98.5	70	130	
Tb	159	1	2607499	2.07	2301159	113.3	70	130	
Tb	159	2	1328733	0.52	1322531	100.5	70	130	
Ho	165	1	2476254	0.49	2203645	112.4	70	130	
Ho	165	2	1302833	0.70	1300814	100.2	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38617-008**
Data File Name	**052SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T14:17:42-04:00**
Type	**Sample**
VialNumber	**2306**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	1.74	1.74	ppb	14979	0.37	550	
Na	23	115	2	94.34	94.34	ppb	143980	1.26	220000	
Mg	24	115	2	1474.49	1474.49	ppb	778287	0.77	220000	
Al	27	115	2	19044.53	19044.53	ppb	3277429	0.60	181500	
K	39	115	2	3202.29	3202.29	ppb	1776688	0.67	220000	
Ca	44	115	2	1727.89	1727.89	ppb	48087	1.37	220000	
V	51	115	2	36.12	36.12	ppb	285663	0.60	550	
Cr	52	115	2	33.28	33.28	ppb	337819	0.29	550	
Mn	55	115	2	179.92	179.92	ppb	927595	0.70	2750	
Fe	56	115	2	50601.71	50601.71	ppb	412977465	0.39	220000	
Co	59	115	2	11.99	11.99	ppb	205891	0.73	550	
Ni	60	115	2	10.47	10.47	ppb	48798	0.24	550	
Cu	65	115	2	5.35	5.35	ppb	35938	1.00	2750	
Zn	66	115	2	79.46	79.46	ppb	126143	0.96	2750	
As	75	115	2	21.61	21.61	ppb	23872	1.50	550	
Se	78	115	2	3.42	3.42	ppb	300	8.27	2750	
Mo	95	115	1	0.33	0.33	ppb	6403	3.40	550	
Ag	107	115	1	0.07	0.07	ppb	3684	4.24	550	
Cd	111	115	1	0.06	0.06	ppb	514	5.18	550	
Sb	121	115	1	-0.01	-0.01	ppb	7130	3.08	550	
Ba	137	159	1	21.84	21.84	ppb	294585	0.69	2750	
Tl	205	165	1	0.10	0.10	ppb	8403	0.96	550	
Pb	208	165	1	10.79	10.79	ppb	529877	0.33	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	2037236	1.25	1473315	138.3	70	130	IS Fail
Sc	45	2	68560	2.19	51570	132.9	70	130	IS Fail
In	115	1	2109149	0.43	1904177	110.8	70	130	
In	115	2	425084	1.01	427600	99.4	70	130	
Tb	159	1	2610564	0.80	2301159	113.4	70	130	
Tb	159	2	1363803	4.47	1322531	103.1	70	130	
Ho	165	1	2497295	0.79	2203645	113.3	70	130	
Ho	165	2	1315701	0.33	1300814	101.1	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**RINSE**
Data File Name	**053SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T14:22:08-04:00**
Type	**Sample**
VialNumber	**1101**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.00	0.00	ppb	43	42.83	550	
Na	23	115	2	-12.84	-12.84	ppb	20311	2.44	220000	
Mg	24	115	2	0.45	0.45	ppb	640	9.04	220000	
Al	27	115	2	0.01	0.01	ppb	278	8.43	181500	
K	39	115	2	4.60	4.60	ppb	34091	1.22	220000	
Ca	44	115	2	-4.46	-4.46	ppb	243	2.74	220000	
V	51	115	2	-0.09	-0.09	ppb	124	27.10	550	
Cr	52	115	2	-0.02	-0.02	ppb	422	6.57	550	
Mn	55	115	2	0.00	0.00	ppb	548	5.18	2750	
Fe	56	115	2	12.58	12.58	ppb	132215	2.17	220000	
Co	59	115	2	0.00	0.00	ppb	89	40.10	550	
Ni	60	115	2	-0.02	-0.02	ppb	118	18.19	550	
Cu	65	115	2	0.03	0.03	ppb	1437	3.43	2750	
Zn	66	115	2	-0.27	-0.27	ppb	817	12.13	2750	
As	75	115	2	0.06	0.06	ppb	93	6.16	550	
Se	78	115	2	0.19	0.19	ppb	66	5.12	2750	
Mo	95	115	1	0.01	0.01	ppb	581	8.32	550	
Ag	107	115	1	0.12	0.12	ppb	5407	11.69	550	
Cd	111	115	1	0.00	0.00	ppb	37	37.99	550	
Sb	121	115	1	-0.17	-0.17	ppb	1959	4.43	550	
Ba	137	159	1	-0.04	-0.04	ppb	327	12.74	2750	
Tl	205	165	1	-0.01	-0.01	ppb	1501	2.22	550	
Pb	208	165	1	-0.09	-0.09	ppb	12095	2.94	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1508724	1.31	1473315	102.4	70	130	
Sc	45	2	52573	0.66	51570	101.9	70	130	
In	115	1	2036800	1.05	1904177	107.0	70	130	
In	115	2	430888	0.40	427600	100.8	70	130	
Tb	159	1	2402232	0.17	2301159	104.4	70	130	
Tb	159	2	1283656	0.20	1322531	97.1	70	130	
Ho	165	1	2299811	0.89	2203645	104.4	70	130	
Ho	165	2	1260039	0.88	1300814	96.9	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Continuing Calibration Verification (CCV) - US EPA Method 6020

Sample Name	**CCV V-397371**
Data File Name	**0546CCV.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T14:26:41-04:00**
Type	**6-CCV**
VialNumber	**1201**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	Conc	Units	Expected	CPS	%RSD	%Rec	%QC Low	%QC High	QC Flag
Be	9	165	1	48.54	ppb	50	396796	0.76	97.07	90	110	
Na	23	115	2	5434.40	ppb	5000	6420557	0.52	108.69	90	110	
Mg	24	115	2	5460.65	ppb	5000	2927623	0.29	109.21	90	110	
Al	27	115	2	1607.70	ppb	1500	281388	0.72	107.18	90	110	
K	39	115	2	5415.41	ppb	5000	3031359	0.61	108.31	90	110	
Ca	44	115	2	5434.18	ppb	5000	152881	1.27	108.68	90	110	
V	51	115	2	54.49	ppb	50	437507	1.07	108.98	90	110	
Cr	52	115	2	54.39	ppb	50	560596	1.22	108.77	90	110	
Mn	55	115	2	53.80	ppb	50	282223	0.79	107.60	90	110	
Fe	56	115	2	5471.37	ppb	5000	45400487	0.68	109.43	90	110	
Co	59	115	2	53.96	ppb	50	941618	0.96	107.93	90	110	
Ni	60	115	2	54.84	ppb	50	258812	1.28	109.69	90	110	
Cu	65	115	2	54.20	ppb	50	358091	0.66	108.39	90	110	
Zn	66	115	2	53.72	ppb	50	87053	0.75	107.43	90	110	
As	75	115	2	53.64	ppb	50	60168	0.39	107.29	90	110	
Se	78	115	2	260.88	ppb	250	19259	0.65	104.35	90	110	
Mo	95	115	1	48.16	ppb	50	854669	1.35	96.32	90	110	
Ag	107	115	1	50.88	ppb	50	2208999	1.69	101.76	90	110	
Cd	111	115	1	49.40	ppb	50	378692	1.35	98.81	90	110	
Sb	121	115	1	51.04	ppb	50	1645838	0.11	102.08	90	110	
Ba	137	159	1	50.12	ppb	50	637906	0.85	100.24	90	110	
Tl	205	165	1	48.68	ppb	50	3120129	1.67	97.36	90	110	
Pb	208	165	1	48.64	ppb	50	2212065	1.35	97.28	90	110	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1617113	0.46	1473315	109.8	70	130	
Sc	45	2	55050	2.02	51570	106.7	70	130	
In	115	1	2058775	0.66	1904177	108.1	70	130	
In	115	2	431922	0.70	427600	101.0	70	130	
Tb	159	1	2467384	0.18	2301159	107.2	70	130	
Tb	159	2	1298367	0.28	1322531	98.2	70	130	
Ho	165	1	2373876	0.70	2203645	107.7	70	130	
Ho	165	2	1283449	0.42	1300814	98.7	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Continuing Calibration Blank (CCB) - US EPA Method 6020

Sample Name	**CCB V-397368**
Data File Name	**0556CCB.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T14:31:33-04:00**
Type	**6-CCB**
VialNumber	**1202**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune Step	Meas Value	Units	QC High	QC Flag
Be	9	165	1	0.00	ppb	1	
Na	23	115	2	-12.32	ppb	500	
Mg	24	115	2	0.32	ppb	500	
Al	27	115	2	0.57	ppb	500	
K	39	115	2	6.06	ppb	500	
Ca	44	115	2	-3.48	ppb	500	
V	51	115	2	-0.01	ppb	1	
Cr	52	115	2	0.05	ppb	2	
Mn	55	115	2	-0.03	ppb	6	
Fe	56	115	2	9.49	ppb	500	
Co	59	115	2	0.00	ppb	2	
Ni	60	115	2	-0.01	ppb	3	
Cu	65	115	2	-0.08	ppb	10	
Zn	66	115	2	-0.15	ppb	20	
As	75	115	2	0.08	ppb	1	
Se	78	115	2	0.28	ppb	10	
Mo	95	115	1	0.07	ppb	1	
Ag	107	115	1	0.02	ppb	1	
Cd	111	115	1	0.00	ppb	2	
Sb	121	115	1	-0.07	ppb	4	
Ba	137	159	1	-0.03	ppb	5	
Tl	205	165	1	0.04	ppb	2	
Pb	208	165	1	-0.17	ppb	2	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1590842	0.67	1473315	108.0	70	130	
Sc	45	2	54123	0.50	51570	105.0	70	130	
In	115	1	2089134	0.34	1904177	109.7	70	130	
In	115	2	429517	0.48	427600	100.4	70	130	
Tb	159	1	2508258	0.96	2301159	109.0	70	130	
Tb	159	2	1284760	0.82	1322531	97.1	70	130	
Ho	165	1	2377898	0.82	2203645	107.9	70	130	
Ho	165	2	1266125	1.19	1300814	97.3	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38617-009**
Data File Name	**056SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T14:36:06-04:00**
Type	**Sample**
VialNumber	**2307**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	1.78	1.78	ppb	15498	0.63	550	
Na	23	115	2	88.06	88.06	ppb	137207	0.71	220000	
Mg	24	115	2	1334.34	1334.34	ppb	706883	0.83	220000	
Al	27	115	2	23982.11	23982.11	ppb	4142133	1.23	181500	
K	39	115	2	2615.51	2615.51	ppb	1462232	1.23	220000	
Ca	44	115	2	1242.32	1242.32	ppb	34799	0.16	220000	
V	51	115	2	171.80	171.80	ppb	1360591	0.41	550	
Cr	52	115	2	682.75	682.75	ppb	6943500	0.83	550	>LDR
Mn	55	115	2	138.76	138.76	ppb	718110	0.57	2750	
Fe	56	115	2	51632.79	51632.79	ppb	422931460	0.78	220000	
Co	59	115	2	10.56	10.56	ppb	182064	0.61	550	
Ni	60	115	2	23.60	23.60	ppb	110113	0.64	550	
Cu	65	115	2	14.12	14.12	ppb	93086	0.98	2750	
Zn	66	115	2	97.89	97.89	ppb	155668	0.50	2750	
As	75	115	2	9.68	9.68	ppb	10743	1.01	550	
Se	78	115	2	4.34	4.34	ppb	367	2.31	2750	
Mo	95	115	1	2.61	2.61	ppb	47866	0.62	550	
Ag	107	115	1	0.13	0.13	ppb	6308	2.34	550	
Cd	111	115	1	0.15	0.15	ppb	1175	1.61	550	
Sb	121	115	1	0.31	0.31	ppb	17717	1.36	550	
Ba	137	159	1	42.62	42.62	ppb	578825	1.55	2750	
Tl	205	165	1	0.15	0.15	ppb	12386	3.23	550	
Pb	208	165	1	21.09	21.09	ppb	1029911	0.64	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	2512977	0.24	1473315	170.6	70	130	IS Fail
Sc	45	2	84514	0.69	51570	163.9	70	130	IS Fail
In	115	1	2109740	1.46	1904177	110.8	70	130	
In	115	2	426614	1.02	427600	99.8	70	130	
Tb	159	1	2632354	0.79	2301159	114.4	70	130	
Tb	159	2	1352571	0.94	1322531	102.3	70	130	
Ho	165	1	2524771	1.09	2203645	114.6	70	130	
Ho	165	2	1327599	0.90	1300814	102.1	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38617-010**
Data File Name	**057SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T14:40:31-04:00**
Type	**Sample**
VialNumber	**2308**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.96	0.96	ppb	8252	2.34	550	
Na	23	115	2	83.79	83.79	ppb	132885	0.52	220000	
Mg	24	115	2	2622.65	2622.65	ppb	1395725	0.60	220000	
Al	27	115	2	18211.61	18211.61	ppb	3160785	1.38	181500	
K	39	115	2	3891.97	3891.97	ppb	2171029	0.69	220000	
Ca	44	115	2	1159.47	1159.47	ppb	32664	2.07	220000	
V	51	115	2	26.92	26.92	ppb	214961	1.56	550	
Cr	52	115	2	22.94	22.94	ppb	235087	1.57	550	
Mn	55	115	2	114.68	114.68	ppb	596481	1.19	2750	
Fe	56	115	2	20103.45	20103.45	ppb	165489090	0.95	220000	
Co	59	115	2	5.59	5.59	ppb	96859	1.94	550	
Ni	60	115	2	8.53	8.53	ppb	40137	0.72	550	
Cu	65	115	2	4.07	4.07	ppb	27867	0.89	2750	
Zn	66	115	2	65.10	65.10	ppb	104453	0.97	2750	
As	75	115	2	3.38	3.38	ppb	3784	3.12	550	
Se	78	115	2	4.12	4.12	ppb	353	4.99	2750	
Mo	95	115	1	0.12	0.12	ppb	2608	5.70	550	
Ag	107	115	1	0.06	0.06	ppb	3156	7.27	550	
Cd	111	115	1	0.04	0.04	ppb	339	6.50	550	
Sb	121	115	1	-0.11	-0.11	ppb	4150	3.22	550	
Ba	137	159	1	30.30	30.30	ppb	411027	0.23	2750	
Tl	205	165	1	0.09	0.09	ppb	8002	3.98	550	
Pb	208	165	1	6.48	6.48	ppb	322796	0.55	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	2044859	0.43	1473315	138.8	70	130	IS Fail
Sc	45	2	68691	1.07	51570	133.2	70	130	IS Fail
In	115	1	2118825	0.62	1904177	111.3	70	130	
In	115	2	428675	0.89	427600	100.3	70	130	
Tb	159	1	2627736	0.23	2301159	114.2	70	130	
Tb	159	2	1342658	0.54	1322531	101.5	70	130	
Ho	165	1	2478881	0.96	2203645	112.5	70	130	
Ho	165	2	1327608	0.63	1300814	102.1	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38622-042 5X**
Data File Name	**058SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T14:44:58-04:00**
Type	**Sample**
VialNumber	**2407**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.58	0.58	ppb	4809	1.36	550	
Na	23	115	2	65.08	65.08	ppb	114518	1.33	220000	
Mg	24	115	2	1619.15	1619.15	ppb	888511	0.83	220000	
Al	27	115	2	10098.49	10098.49	ppb	1806705	1.59	181500	
K	39	115	2	476.75	476.75	ppb	302568	0.66	220000	
Ca	44	115	2	2194.56	2194.56	ppb	63398	1.02	220000	
V	51	115	2	22.82	22.82	ppb	187974	1.72	550	
Cr	52	115	2	14.53	14.53	ppb	153754	1.07	550	
Mn	55	115	2	263.11	263.11	ppb	1410056	0.87	2750	
Fe	56	115	2	16233.94	16233.94	ppb	137774940	0.49	220000	
Co	59	115	2	6.26	6.26	ppb	111929	1.98	550	
Ni	60	115	2	8.65	8.65	ppb	41957	1.31	550	
Cu	65	115	2	16.00	16.00	ppb	109117	0.92	2750	
Zn	66	115	2	310.64	310.64	ppb	508983	0.88	2750	
As	75	115	2	9.13	9.13	ppb	10503	2.48	550	
Se	78	115	2	1.53	1.53	ppb	169	7.78	2750	
Mo	95	115	1	0.50	0.50	ppb	9316	3.75	550	
Ag	107	115	1	0.06	0.06	ppb	2767	3.51	550	
Cd	111	115	1	0.27	0.27	ppb	2136	4.47	550	
Sb	121	115	1	-0.07	-0.07	ppb	5294	4.16	550	
Ba	137	159	1	90.90	90.90	ppb	1179004	0.67	2750	
Tl	205	165	1	0.06	0.06	ppb	6088	3.99	550	
Pb	208	165	1	708.98	708.98	ppb	32200374	1.82	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1776714	0.41	1473315	120.6	70	130	
Sc	45	2	62174	0.33	51570	120.6	70	130	
In	115	1	2073307	2.29	1904177	108.9	70	130	
In	115	2	441971	1.37	427600	103.4	70	130	
Tb	159	1	2516342	1.41	2301159	109.4	70	130	
Tb	159	2	1333497	0.62	1322531	100.8	70	130	
Ho	165	1	2387566	1.16	2203645	108.3	70	130	
Ho	165	2	1308258	0.51	1300814	100.6	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38586-003 5X**
Data File Name	**059SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T14:49:24-04:00**
Type	**Sample**
VialNumber	**2408**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.09	0.09	ppb	742	7.11	550	
Na	23	115	2	184.90	184.90	ppb	262037	0.47	220000	
Mg	24	115	2	538.09	538.09	ppb	299527	0.42	220000	
Al	27	115	2	1923.49	1923.49	ppb	349043	0.31	181500	
K	39	115	2	622.83	622.83	ppb	390557	0.65	220000	
Ca	44	115	2	1616.39	1616.39	ppb	47422	0.92	220000	
V	51	115	2	16.72	16.72	ppb	139791	1.17	550	
Cr	52	115	2	3.83	3.83	ppb	41596	1.23	550	
Mn	55	115	2	72.71	72.71	ppb	395329	0.81	2750	
Fe	56	115	2	35933.79	35933.79	ppb	309033878	0.68	220000	
Co	59	115	2	5.88	5.88	ppb	106391	0.95	550	
Ni	60	115	2	4.15	4.15	ppb	20552	2.28	550	
Cu	65	115	2	26.23	26.23	ppb	180407	0.16	2750	
Zn	66	115	2	59.72	59.72	ppb	100221	0.74	2750	
As	75	115	2	157.31	157.31	ppb	182930	1.03	550	
Se	78	115	2	18.90	18.90	ppb	1497	6.05	2750	
Mo	95	115	1	4.41	4.41	ppb	79012	0.08	550	
Ag	107	115	1	0.13	0.13	ppb	6112	3.84	550	
Cd	111	115	1	0.04	0.04	ppb	371	3.63	550	
Sb	121	115	1	28.82	28.82	ppb	937054	0.70	550	
Ba	137	159	1	36.20	36.20	ppb	463988	0.64	2750	
Tl	205	165	1	0.36	0.36	ppb	24703	2.89	550	
Pb	208	165	1	586.06	586.06	ppb	26308528	0.83	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1707023	0.72	1473315	115.9	70	130	
Sc	45	2	59916	1.03	51570	116.2	70	130	
In	115	1	2068617	0.60	1904177	108.6	70	130	
In	115	2	447894	0.83	427600	104.7	70	130	
Tb	159	1	2483644	0.78	2301159	107.9	70	130	
Tb	159	2	1316170	0.46	1322531	99.5	70	130	
Ho	165	1	2359593	0.44	2203645	107.1	70	130	
Ho	165	2	1304515	0.28	1300814	100.3	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38586-004 5X**
Data File Name	**060SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T14:53:52-04:00**
Type	**Sample**
VialNumber	**2409**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.64	0.64	ppb	5304	5.22	550	
Na	23	115	2	148.54	148.54	ppb	216590	0.84	220000	
Mg	24	115	2	1949.51	1949.51	ppb	1078395	0.41	220000	
Al	27	115	2	6123.92	6123.92	ppb	1104853	1.05	181500	
K	39	115	2	615.42	615.42	ppb	384272	0.81	220000	
Ca	44	115	2	3961.90	3961.90	ppb	115073	0.33	220000	
V	51	115	2	19.79	19.79	ppb	164435	1.19	550	
Cr	52	115	2	10.56	10.56	ppb	112860	0.59	550	
Mn	55	115	2	505.93	505.93	ppb	2733016	0.84	2750	
Fe	56	115	2	52591.68	52591.68	ppb	449892758	0.77	220000	
Co	59	115	2	6.72	6.72	ppb	121042	1.82	550	
Ni	60	115	2	14.68	14.68	ppb	71649	0.57	550	
Cu	65	115	2	77.70	77.70	ppb	529061	1.04	2750	
Zn	66	115	2	59.23	59.23	ppb	98875	0.90	2750	
As	75	115	2	192.35	192.35	ppb	222492	0.70	550	
Se	78	115	2	38.35	38.35	ppb	2967	4.18	2750	
Mo	95	115	1	5.04	5.04	ppb	90891	0.91	550	
Ag	107	115	1	0.17	0.17	ppb	8015	4.12	550	
Cd	111	115	1	0.24	0.24	ppb	1900	4.24	550	
Sb	121	115	1	1.21	1.21	ppb	46986	1.33	550	
Ba	137	159	1	77.33	77.33	ppb	989479	0.62	2750	
Tl	205	165	1	0.97	0.97	ppb	64320	0.12	550	
Pb	208	165	1	92.09	92.09	ppb	4179332	1.00	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1819949	0.63	1473315	123.5	70	130	
Sc	45	2	64196	0.57	51570	124.5	70	130	
In	115	1	2087207	1.43	1904177	109.6	70	130	
In	115	2	445544	0.88	427600	104.2	70	130	
Tb	159	1	2481844	0.45	2301159	107.9	70	130	
Tb	159	2	1335126	0.34	1322531	101.0	70	130	
Ho	165	1	2377447	0.86	2203645	107.9	70	130	
Ho	165	2	1316084	0.69	1300814	101.2	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38589-008 5X**
Data File Name	**061SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T14:58:20-04:00**
Type	**Sample**
VialNumber	**2405**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.26	0.26	ppb	2126	4.26	550	
Na	23	115	2	1016.85	1016.85	ppb	1256826	1.48	220000	
Mg	24	115	2	6177.88	6177.88	ppb	3383756	0.39	220000	
Al	27	115	2	3596.16	3596.16	ppb	642715	0.68	181500	
K	39	115	2	424.64	424.64	ppb	272643	0.85	220000	
Ca	44	115	2	18156.77	18156.77	ppb	521002	0.85	220000	
V	51	115	2	36.29	36.29	ppb	297969	0.53	550	
Cr	52	115	2	25.39	25.39	ppb	267728	1.49	550	
Mn	55	115	2	298.23	298.23	ppb	1595972	1.22	2750	
Fe	56	115	2	46147.35	46147.35	ppb	391017963	0.52	220000	
Co	59	115	2	8.29	8.29	ppb	147865	0.91	550	
Ni	60	115	2	39.60	39.60	ppb	191009	1.59	550	
Cu	65	115	2	298.96	298.96	ppb	2012128	2.00	2750	
Zn	66	115	2	541.72	541.72	ppb	885358	0.81	2750	
As	75	115	2	11.88	11.88	ppb	13628	0.24	550	
Se	78	115	2	1.40	1.40	ppb	160	18.63	2750	
Mo	95	115	1	5.75	5.75	ppb	102517	1.12	550	
Ag	107	115	1	1.81	1.81	ppb	78937	0.21	550	
Cd	111	115	1	1.82	1.82	ppb	14009	1.45	550	
Sb	121	115	1	4.70	4.70	ppb	158456	0.91	550	
Ba	137	159	1	572.09	572.09	ppb	7124733	1.21	2750	
Tl	205	165	1	0.05	0.05	ppb	5173	1.06	550	
Pb	208	165	1	397.43	397.43	ppb	17510075	0.73	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1665997	0.74	1473315	113.1	70	130	
Sc	45	2	57880	1.75	51570	112.2	70	130	
In	115	1	2062451	0.47	1904177	108.3	70	130	
In	115	2	441309	1.14	427600	103.2	70	130	
Tb	159	1	2417292	1.37	2301159	105.0	70	130	
Tb	159	2	1309817	0.32	1322531	99.0	70	130	
Ho	165	1	2315605	1.89	2203645	105.1	70	130	
Ho	165	2	1285163	0.45	1300814	98.8	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Sample Report

Sample Name	**AD38589-017 10X**
Data File Name	**062SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T15:02:44-04:00**
Type	**Sample**
VialNumber	**2406**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	CorrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.29	0.29	ppb	2346	1.78	550	
Na	23	115	2	511.69	511.69	ppb	667094	0.16	220000	
Mg	24	115	2	1012.73	1012.73	ppb	569274	0.83	220000	
Al	27	115	2	2437.51	2437.51	ppb	446875	0.68	181500	
K	39	115	2	239.44	239.44	ppb	172113	0.72	220000	
Ca	44	115	2	7264.56	7264.56	ppb	214017	1.18	220000	
V	51	115	2	26.44	26.44	ppb	222864	0.45	550	
Cr	52	115	2	29.35	29.35	ppb	317293	0.82	550	
Mn	55	115	2	508.48	508.48	ppb	2790231	0.93	2750	
Fe	56	115	2	111995.34	111995.34	ppb	973190972	0.60	220000	
Co	59	115	2	17.10	17.10	ppb	312685	0.79	550	
Ni	60	115	2	109.87	109.87	ppb	543031	0.75	550	
Cu	65	115	2	361.06	361.06	ppb	2492176	1.86	2750	
Zn	66	115	2	2223.28	2223.28	ppb	3722277	0.30	2750	
As	75	115	2	48.58	48.58	ppb	57100	0.83	550	
Se	78	115	2	0.77	0.77	ppb	115	3.40	2750	
Mo	95	115	1	5.46	5.46	ppb	97927	1.49	550	
Ag	107	115	1	1.22	1.22	ppb	53517	0.48	550	
Cd	111	115	1	5.89	5.89	ppb	45518	0.59	550	
Sb	121	115	1	7.98	7.98	ppb	265442	0.30	550	
Ba	137	159	1	251.97	251.97	ppb	3099769	0.73	2750	
Tl	205	165	1	0.02	0.02	ppb	3265	2.20	550	
Pb	208	165	1	353.83	353.83	ppb	15341931	0.55	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1637929	1.55	1473315	111.2	70	130	
Sc	45	2	57935	1.50	51570	112.3	70	130	
In	115	1	2072743	0.38	1904177	108.9	70	130	
In	115	2	452584	0.98	427600	105.8	70	130	
Tb	159	1	2387542	0.85	2301159	103.8	70	130	
Tb	159	2	1296437	0.62	1322531	98.0	70	130	
Ho	165	1	2276252	0.38	2203645	103.4	70	130	
Ho	165	2	1279010	0.89	1300814	98.3	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Printed at: 3:34 PM on:6/19/2023

Sample Report

Sample Name	**RINSE**
Data File Name	**063SMPL.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T15:07:08-04:00**
Type	**Sample**
VialNumber	**1101**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	ConrConc	RawConc	Units	CPS	%RSD	High Value	QC Flag
Be	9	165	1	0.00	0.00	ppb	21	39.75	550	
Na	23	115	2	-12.55	-12.55	ppb	21142	1.64	220000	
Mg	24	115	2	0.52	0.52	ppb	696	9.42	220000	
Al	27	115	2	0.12	0.12	ppb	304	27.84	181500	
K	39	115	2	6.69	6.69	ppb	36079	0.09	220000	
Ca	44	115	2	-2.65	-2.65	ppb	301	9.55	220000	
V	51	115	2	-0.09	-0.09	ppb	108	20.13	550	
Cr	52	115	2	-0.02	-0.02	ppb	408	5.56	550	
Mn	55	115	2	0.02	0.02	ppb	640	6.89	2750	
Fe	56	115	2	18.68	18.68	ppb	187059	2.03	220000	
Co	59	115	2	0.01	0.01	ppb	182	6.42	550	
Ni	60	115	2	-0.02	-0.02	ppb	164	8.44	550	
Cu	65	115	2	0.00	0.00	ppb	1316	10.26	2750	
Zn	66	115	2	-0.17	-0.17	ppb	999	6.56	2750	
As	75	115	2	0.04	0.04	ppb	74	25.56	550	
Se	78	115	2	0.17	0.17	ppb	67	8.50	2750	
Mo	95	115	1	0.03	0.03	ppb	853	3.47	550	
Ag	107	115	1	0.08	0.08	ppb	3757	15.46	550	
Cd	111	115	1	0.00	0.00	ppb	33	10.30	550	
Sb	121	115	1	-0.16	-0.16	ppb	2102	6.00	550	
Ba	137	159	1	-0.04	-0.04	ppb	333	6.00	2750	
Tl	205	165	1	0.00	0.00	ppb	1668	14.71	550	
Pb	208	165	1	-0.10	-0.10	ppb	11309	1.02	2750	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1507161	0.53	1473315	102.3	70	130	
Sc	45	2	53231	0.40	51570	103.2	70	130	
In	115	1	1995678	0.39	1904177	104.8	70	130	
In	115	2	441092	0.91	427600	103.2	70	130	
Tb	159	1	2340102	0.51	2301159	101.7	70	130	
Tb	159	2	1280726	0.76	1322531	96.8	70	130	
Ho	165	1	2202057	0.75	2203645	99.9	70	130	
Ho	165	2	1255285	0.23	1300814	96.5	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Continuing Calibration Verification (CCV) - US EPA Method 6020

Sample Name	**CCV V-397371**
Data File Name	**0646CCV.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T15:11:39-04:00**
Type	**6-CCV**
VialNumber	**1201**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Fail**
ISTD PassFail	**Pass**

QC Analyte Table

Element	m/z	ISTD	Tune	Conc	Units	Expected	CPS	%RSD	%Rec	%QC Low	%QC High	QC Flag
Be	9	165	1	50.43	ppb	50	402034	0.91	100.87	90	110	
Na	23	115	2	5516.60	ppb	5000	6481016	0.50	110.33	90	110	>+-10%
Mg	24	115	2	5491.61	ppb	5000	2927731	0.50	109.83	90	110	
Al	27	115	2	1616.57	ppb	1500	281368	0.85	107.77	90	110	
K	39	115	2	5488.09	ppb	5000	3054506	0.35	109.76	90	110	
Ca	44	115	2	5495.21	ppb	5000	153731	1.29	109.90	90	110	
V	51	115	2	55.18	ppb	50	440606	0.82	110.37	90	110	>+-10%
Cr	52	115	2	54.83	ppb	50	562014	0.82	109.66	90	110	
Mn	55	115	2	54.45	ppb	50	284043	0.80	108.91	90	110	
Fe	56	115	2	5494.40	ppb	5000	45336247	0.35	109.89	90	110	
Co	59	115	2	54.13	ppb	50	939235	0.59	108.26	90	110	
Ni	60	115	2	55.12	ppb	50	258645	1.29	110.23	90	110	>+-10%
Cu	65	115	2	54.15	ppb	50	355781	0.38	108.29	90	110	
Zn	66	115	2	54.08	ppb	50	87155	1.91	108.16	90	110	
As	75	115	2	54.77	ppb	50	61096	0.28	109.55	90	110	
Se	78	115	2	263.68	ppb	250	19358	1.25	105.47	90	110	
Mo	95	115	1	48.33	ppb	50	854590	1.35	96.66	90	110	
Ag	107	115	1	50.96	ppb	50	2204562	1.47	101.91	90	110	
Cd	111	115	1	49.18	ppb	50	375654	1.23	98.36	90	110	
Sb	121	115	1	50.88	ppb	50	1634854	0.69	101.75	90	110	
Ba	137	159	1	50.43	ppb	50	633780	1.29	100.85	90	110	
Tl	205	165	1	48.72	ppb	50	3045029	0.99	97.45	90	110	
Pb	208	165	1	49.17	ppb	50	2179843	0.76	98.34	90	110	

QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1618297	0.32	1473315	109.8	70	130	
Sc	45	2	54885	1.05	51570	106.4	70	130	
In	115	1	2051524	0.45	1904177	107.7	70	130	
In	115	2	429525	0.84	427600	100.5	70	130	
Tb	159	1	2436674	0.83	2301159	105.9	70	130	
Tb	159	2	1296008	0.60	1322531	98.0	70	130	
Ho	165	1	2314981	1.75	2203645	105.1	70	130	
Ho	165	2	1276205	0.40	1300814	98.1	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u

Continuing Calibration Blank (CCB) - US EPA Method 6020

Sample Name	**CCB V-397368**
Data File Name	**0656CCB.D**
DataPath	**C:\ICPMH\1\DATA\S061923A.b**
Acq Date Time	**2023-06-19T15:16:03-04:00**
Type	**6-CCB**
VialNumber	**1202**
Dilution	**1**
Comment	**MS_7700 6020 SOIL**
Operator	
ISTDRefDataFileName	**003CALB.D**
SamplePassFail	**Pass**
ISTD PassFail	**Pass**

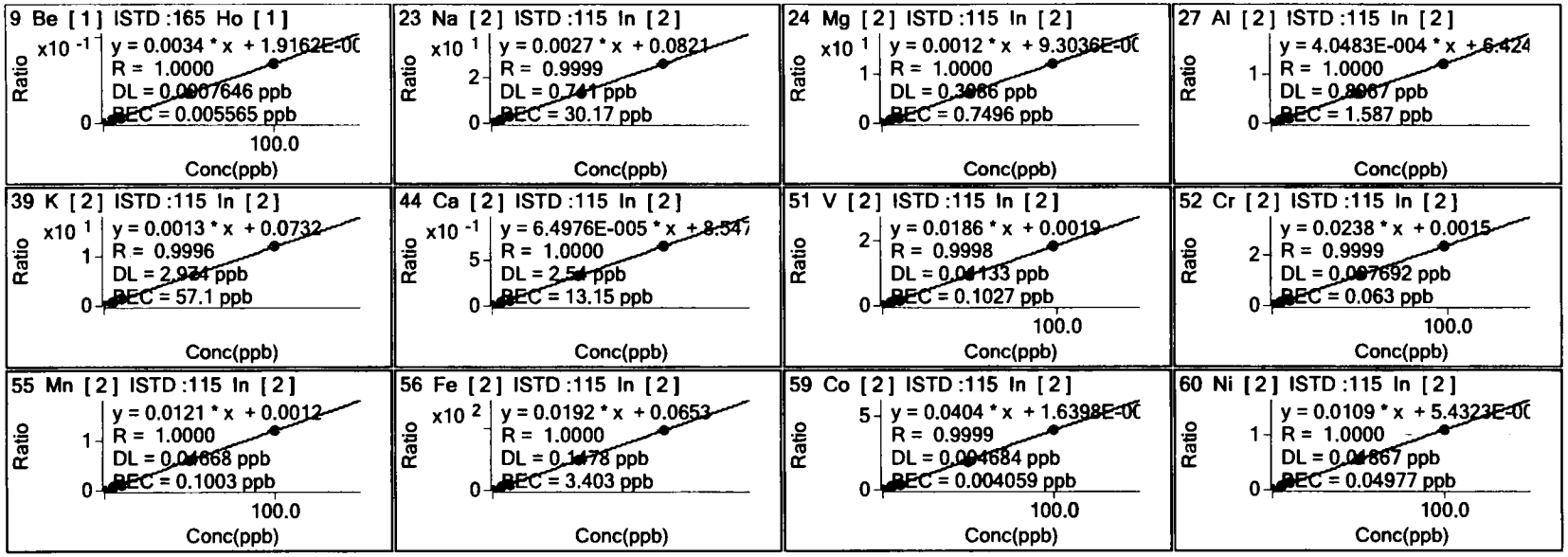
QC Analyte Table

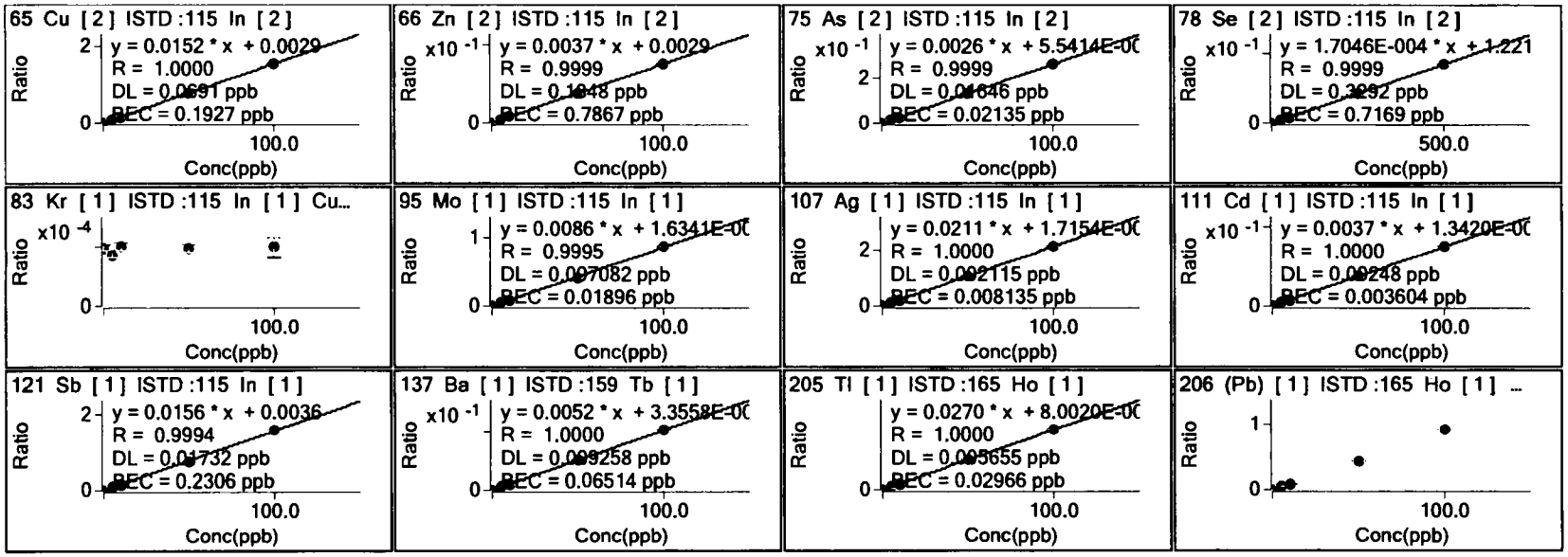
Element	m/z	ISTD	Tune Step	Meas Value	Units	QC High	QC Flag
Be	9	165	1	0.01	ppb	1	
Na	23	115	2	-12.52	ppb	500	
Mg	24	115	2	0.42	ppb	500	
Al	27	115	2	1.00	ppb	500	
K	39	115	2	5.73	ppb	500	
Ca	44	115	2	-5.15	ppb	500	
V	51	115	2	-0.03	ppb	1	
Cr	52	115	2	0.07	ppb	2	
Mn	55	115	2	-0.02	ppb	6	
Fe	56	115	2	11.27	ppb	500	
Co	59	115	2	0.00	ppb	2	
Ni	60	115	2	0.00	ppb	3	
Cu	65	115	2	-0.08	ppb	10	
Zn	66	115	2	-0.13	ppb	20	
As	75	115	2	0.06	ppb	1	
Se	78	115	2	0.38	ppb	10	
Mo	95	115	1	0.09	ppb	1	
Ag	107	115	1	0.02	ppb	1	
Cd	111	115	1	0.00	ppb	2	
Sb	121	115	1	-0.04	ppb	4	
Ba	137	159	1	-0.02	ppb	5	
Tl	205	165	1	0.06	ppb	2	
Pb	208	165	1	-0.19	ppb	2	

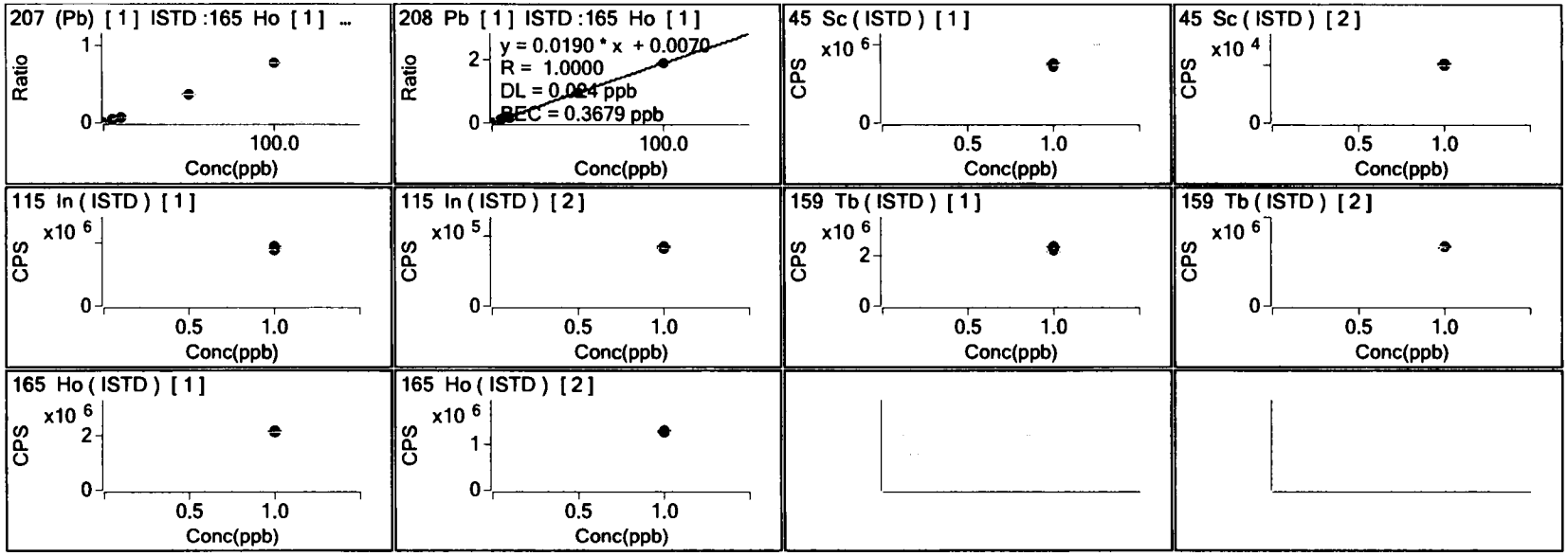
QC ISTD Table

Element	m/z	Tune Step	CPS	%RSD	Reference CPS	%Recovery	Lower Limit	Upper Limit	QC Flag
Sc	45	1	1593863	1.54	1473315	108.2	70	130	
Sc	45	2	54632	1.02	51570	105.9	70	130	
In	115	1	2076871	1.26	1904177	109.1	70	130	
In	115	2	431797	0.62	427600	101.0	70	130	
Tb	159	1	2467190	0.39	2301159	107.2	70	130	
Tb	159	2	1282270	0.44	1322531	97.0	70	130	
Ho	165	1	2336588	0.68	2203645	106.0	70	130	
Ho	165	2	1262918	0.58	1300814	97.1	70	130	

TuneStep	TuneFile
1	nogas.u
2	he.u







$SnCl_2$ V-397682
soil 6/20/23 JL
6/20/23

Analysis Begun

Logged In Analyst: usermet
Technique: AA FIMS-MHS
Spectrometer Model: FIMS-100, S/N B050-9550
Autosampler Model: AS-90

Sample Information File: C:\data-AA\johns\Sample Information\H29868S.sif
Batch ID: H29868S
Results Data Set: H29868S
Results Library: C:\data-AA\johns\Results\Results.mdb

Method Loaded
Method Name: HGCV3 Soil New 7471B
Method Last Saved: 6/20/2023 11:05:37 AM
Method Description: HgCV3 Soil New (7471B)

Sequence No.: 1
Autosampler Location: 1
Sample ID: CALBLK V-397575
Date Collected: 6/20/2023 11:57:18 AM
Analyst:
Data Type: Original

Replicate Data: CALBLK V-397575

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0003	0.0028	0.0003	11:58:07	Yes
2		[0.00]	0.0002	0.0024	0.0002	11:58:42	Yes
Mean:		[0.00]	0.0002				
SD:		0.00	0.0000				
%RSD:		0.00	16.09				

Auto-zero performed.

Sequence No.: 2
Autosampler Location: 2
Sample ID: .5 PPB V-397576
Date Collected: 6/20/2023 11:58:43 AM
Analyst:
Data Type: Original

Replicate Data: .5 PPB V-397576

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.5]	0.0008	0.0073	0.0011	11:59:31	Yes
2		[0.5]	0.0008	0.0065	0.0010	12:00:06	Yes
Mean:		[0.5]	0.0008				
SD:		0.0	0.0000				
%RSD:		0.0	5.22				

Standard number 1 applied. [0.5]
Correlation Coef.: 1.000000 Slope: 0.00158 Intercept: 0.00000

Sequence No.: 3
Autosampler Location: 3
Sample ID: 1 PPB V-397577
Date Collected: 6/20/2023 12:00:08 PM
Analyst:
Data Type: Original

Replicate Data: 1 PPB V-397577

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[1]	0.0017	0.0120	0.0019	12:00:56	Yes
2		[1]	0.0017	0.0120	0.0019	12:01:31	Yes
Mean:		[1]	0.0017				
SD:		0	0.0000				
%RSD:		0	1.77				

Standard number 2 applied. [1]
Correlation Coef.: 0.999312 Slope: 0.00169 Intercept: -0.00002

Sequence No.: 4
Autosampler Location: 4
Sample ID: 2 PPB V-397578
Date Collected: 6/20/2023 12:01:32 PM
Analyst:
Data Type: Original

Replicate Data: 2 PPB V-397578

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

1	[2]	0.0035	0.0220	0.0038	12:02:20	Yes
2	[2]	0.0036	0.0222	0.0038	12:02:55	Yes
Mean:	[2]	0.0036				
SD:	0	0.0000				
%RSD:	0	1.00				

Standard number 3 applied. [2]
Correlation Coef.: 0.999368 Slope: 0.00179 Intercept: -0.00006

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: 5 PPB V-397579 **Date Collected: 6/20/2023 12:02:57 PM**
Analyst: **Data Type: Original**

Replicate Data: 5 PPB V-397579

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5]	0.0134	0.0748	0.0136	12:03:45	Yes
2		[5]	0.0135	0.0748	0.0137	12:04:20	Yes
Mean:		[5]	0.0134				
SD:		0	0.0001				
%RSD:		0	0.42				

Standard number 4 applied. [5]
Correlation Coef.: 0.990495 Slope: 0.00274 Intercept: -0.00076

Sequence No.: 6 **Autosampler Location: 6**
Sample ID: 10 PPB V-397580 **Date Collected: 6/20/2023 12:04:21 PM**
Analyst: **Data Type: Original**

Replicate Data: 10 PPB V-397580

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10]	0.0278	0.1528	0.0280	12:05:09	Yes
2		[10]	0.0275	0.1504	0.0277	12:05:44	Yes
Mean:		[10]	0.0276				
SD:		0	0.0002				
%RSD:		0	0.82				

Standard number 5 applied. [10]
Correlation Coef.: 0.997911 Slope: 0.00283 Intercept: -0.00088

Sequence No.: 7 **Autosampler Location: 7**
Sample ID: 25 PPB V-397581 **Date Collected: 6/20/2023 12:06:10 PM**
Analyst: **Data Type: Original**

Replicate Data: 25 PPB V-397581

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[25]	0.0689	0.3786	0.0691	12:07:01	Yes
2		[25]	0.0683	0.3715	0.0685	12:07:37	Yes
Mean:		[25]	0.0686				
SD:		0	0.0004				
%RSD:		0	0.60				

Standard number 6 applied. [25]
Correlation Coef.: 0.999641 Slope: 0.00278 Intercept: -0.00075

Calibration data for Hg 253.7 **Equation: Linear, Calculated Intercept**

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
CALBLK V-397575	0.0000	0	0.271	0.00	16.1
.5 PPB V-397576	0.0008	0.5	0.555	0.00	5.2
1 PPB V-397577	0.0017	1.0	0.878	0.00	1.8
2 PPB V-397578	0.0036	2.0	1.551	0.00	1.0
5 PPB V-397579	0.0134	5.0	5.103	0.00	0.4
10 PPB V-397580	0.0276	10.0	10.204	0.00	0.8
25 PPB V-397581	0.0686	25.0	24.937	0.00	0.6

Correlation Coef.: 0.999641 Slope: 0.00278 Intercept: -0.00075

Sequence No.: 8 **Autosampler Location: 10**
Sample ID: ICV (2) V-397573 **Date Collected: 6/20/2023 12:08:03 PM**

Analyst: Data Type: Original

Replicate Data: ICV (2) V-397573

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	20.51	20.51	0.0563	0.3100	0.0565	12:08:52	Yes
2	20.48	20.48	0.0562	0.3049	0.0564	12:09:27	Yes
Mean:	20.50	20.50	0.0562				
SD:	0.016	0.016	0.0000				
%RSD:	0.080	0.080	0.08				

QC value within limits for Hg 253.7 Recovery = 102.48%
All analyte(s) passed QC.

==========

Sequence No.: 9 Autosampler Location: 1
Sample ID: ICB V-397575 Date Collected: 6/20/2023 12:09:50 PM
Analyst: Data Type: Original

Replicate Data: ICB V-397575

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.210	0.210	-0.0002	0.0000	0.0001	12:10:38	Yes
2	0.201	0.201	-0.0002	0.0001	0.0000	12:11:13	Yes
Mean:	0.205	0.205	-0.0002				
SD:	0.006	0.006	0.0000				
%RSD:	3.031	3.031	9.48				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 10 Autosampler Location: 11
Sample ID: MB 107880 (167) Date Collected: 6/20/2023 12:11:15 PM
Analyst: Data Type: Original

Replicate Data: MB 107880 (167)

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.205	0.205	-0.0002	0.0003	0.0000	12:12:04	Yes
2	0.206	0.206	-0.0002	0.0005	0.0001	12:12:39	Yes
Mean:	0.206	0.206	-0.0002				
SD:	0.001	0.001	0.0000				
%RSD:	0.435	0.435	1.37				

==========

Sequence No.: 11 Autosampler Location: 12
Sample ID: LCS 107880 Date Collected: 6/20/2023 12:12:41 PM
Analyst: Data Type: Original

Replicate Data: LCS 107880

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	22.89	22.89	0.0629	0.3449	0.0631	12:13:28	Yes
2	22.50	22.50	0.0618	0.3369	0.0620	12:14:03	Yes
Mean:	22.69	22.69	0.0623				
SD:	0.274	0.274	0.0008				
%RSD:	1.208	1.208	1.22				

==========

Sequence No.: 12 Autosampler Location: 13
Sample ID: LCS MR 107880 Date Collected: 6/20/2023 12:14:27 PM
Analyst: Data Type: Original

Replicate Data: LCS MR 107880

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	22.50	22.50	0.0618	0.3395	0.0620	12:15:17	Yes
2	22.58	22.58	0.0620	0.3367	0.0623	12:15:52	Yes
Mean:	22.54	22.54	0.0619				
SD:	0.056	0.056	0.0002				
%RSD:	0.248	0.248	0.25				

Sequence No.: 13 Autosampler Location: 14
Sample ID: AD38586-001 Date Collected: 6/20/2023 12:16:16 PM
Analyst: Data Type: Original

Replicate Data: AD38586-001

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.162	1.162	0.0025	0.0139	0.0027	12:17:07	Yes
2	1.176	1.176	0.0025	0.0146	0.0027	12:17:42	Yes
Mean:	1.169	1.169	0.0025				
SD:	0.010	0.010	0.0000				
%RSD:	0.837	0.837	1.09				

Sequence No.: 14 Autosampler Location: 15
Sample ID: AD38586-001 MR Date Collected: 6/20/2023 12:17:44 PM
Analyst: Data Type: Original

Replicate Data: AD38586-001 MR

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.481	1.481	0.0034	0.0190	0.0036	12:18:31	Yes
2	1.496	1.496	0.0034	0.0192	0.0036	12:19:07	Yes
Mean:	1.488	1.488	0.0034				
SD:	0.011	0.011	0.0000				
%RSD:	0.720	0.720	0.88				

Sequence No.: 15 Autosampler Location: 16
Sample ID: AD38586-007 MS1 Date Collected: 6/20/2023 12:19:08 PM
Analyst: Data Type: Original

Replicate Data: AD38586-007 MS1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.67	10.67	0.0289	0.1577	0.0292	12:19:56	Yes
2	10.62	10.62	0.0288	0.1554	0.0290	12:20:31	Yes
Mean:	10.65	10.65	0.0288				
SD:	0.037	0.037	0.0001				
%RSD:	0.348	0.348	0.36				

Sequence No.: 16 Autosampler Location: 17
Sample ID: AD38586-008 MS2 Date Collected: 6/20/2023 12:20:56 PM
Analyst: Data Type: Original

Replicate Data: AD38586-008 MS2

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	12.58	12.58	0.0342	0.1871	0.0345	12:21:48	Yes
2	12.61	12.61	0.0343	0.1856	0.0345	12:22:23	Yes
Mean:	12.60	12.60	0.0343				
SD:	0.015	0.015	0.0000				
%RSD:	0.117	0.117	0.12				

Sequence No.: 17 Autosampler Location: 18
Sample ID: AD38586-002 Date Collected: 6/20/2023 12:22:49 PM
Analyst: Data Type: Original

Replicate Data: AD38586-002

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.550	1.550	0.0036	0.0202	0.0038	12:23:41	Yes
2	1.569	1.569	0.0036	0.0201	0.0038	12:24:16	Yes
Mean:	1.560	1.560	0.0036				
SD:	0.014	0.014	0.0000				
%RSD:	0.867	0.867	1.05				

Sequence No.: 18 Autosampler Location: 19
Sample ID: AD38586-003 Date Collected: 6/20/2023 12:24:17 PM
Analyst: Data Type: Original

Replicate Data: AD38586-003

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.080	4.080	0.0106	0.0585	0.0108	12:25:09	Yes
2	4.100	4.100	0.0106	0.0585	0.0109	12:25:44	Yes
Mean:	4.090	4.090	0.0106				
SD:	0.014	0.014	0.0000				
%RSD:	0.352	0.352	0.38				

Sequence No.: 19 Autosampler Location: 20
Sample ID: AD38586-004 Date Collected: 6/20/2023 12:25:45 PM
Analyst: Data Type: Original

Replicate Data: AD38586-004

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	7.750	7.750	0.0208	0.1138	0.0210	12:26:33	Yes
2	7.695	7.695	0.0206	0.1120	0.0209	12:27:08	Yes
Mean:	7.722	7.722	0.0207				
SD:	0.039	0.039	0.0001				
%RSD:	0.504	0.504	0.52				

Sequence No.: 20 Autosampler Location: 9
Sample ID: CCV V-397574 Date Collected: 6/20/2023 12:27:10 PM
Analyst: Data Type: Original

Replicate Data: CCV V-397574

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.64	10.64	0.0288	0.1579	0.0291	12:27:58	Yes
2	10.45	10.45	0.0283	0.1527	0.0285	12:28:33	Yes
Mean:	10.54	10.54	0.0286				
SD:	0.135	0.135	0.0004				
%RSD:	1.283	1.283	1.32				

QC value within limits for Hg 253.7 Recovery = 105.42%
All analyte(s) passed QC.

Sequence No.: 21 Autosampler Location: 1
Sample ID: CCB V-397575 Date Collected: 6/20/2023 12:28:56 PM
Analyst: Data Type: Original

Replicate Data: CCB V-397575

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.189	0.189	-0.0002	-0.0007	0.0000	12:29:45	Yes
2	0.207	0.207	-0.0002	0.0000	0.0001	12:30:20	Yes
Mean:	0.198	0.198	-0.0002				
SD:	0.012	0.012	0.0000				
%RSD:	6.140	6.140	16.66				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 22 Autosampler Location: 21
Sample ID: AD38617-007 Date Collected: 6/20/2023 12:30:21 PM
Analyst: Data Type: Original

Replicate Data: AD38617-007

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.272	0.272	0.0000	0.0013	0.0002	12:31:11	Yes
2	0.253	0.253	-0.0001	0.0006	0.0002	12:31:46	Yes
Mean:	0.263	0.263	-0.0000				
SD:	0.014	0.014	0.0000				

%RSD:	5.216	5.216	164.10

Sequence No.: 23 — **Autosampler Location: 22**
Sample ID: AD38617-008 — **Date Collected: 6/20/2023 12:31:47 PM**
Analyst: — **Data Type: Original**

Replicate Data: AD38617-008

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.202	0.202	-0.0002	-0.0004	0.0000	12:32:35	Yes
2	0.235	0.235	-0.0001	0.0007	0.0001	12:33:10	Yes
Mean:	0.218	0.218	-0.0001				
SD:	0.023	0.023	0.0001				
%RSD:	10.62	10.62	44.20				

Sequence No.: 24 — **Autosampler Location: 23**
Sample ID: AD38617-009 — **Date Collected: 6/20/2023 12:33:11 PM**
Analyst: — **Data Type: Original**

Replicate Data: AD38617-009

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.282	0.282	0.0000	0.0009	0.0003	12:33:59	Yes
2	0.283	0.283	0.0000	0.0007	0.0003	12:34:34	Yes
Mean:	0.282	0.282	0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	0.404	0.404	9.90				

Sequence No.: 25 — **Autosampler Location: 24**
Sample ID: AD38617-010 — **Date Collected: 6/20/2023 12:34:36 PM**
Analyst: — **Data Type: Original**

Replicate Data: AD38617-010

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.181	0.181	-0.0003	-0.0011	-0.0000	12:35:24	Yes
2	0.197	0.197	-0.0002	-0.0005	0.0000	12:35:59	Yes
Mean:	0.189	0.189	-0.0002				
SD:	0.012	0.012	0.0000				
%RSD:	6.098	6.098	14.00				

Sequence No.: 26 — **Autosampler Location: 25**
Sample ID: AD38629-002 — **Date Collected: 6/20/2023 12:36:00 PM**
Analyst: — **Data Type: Original**

Replicate Data: AD38629-002

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.566	3.566	0.0092	0.0503	0.0094	12:36:48	Yes
2	3.552	3.552	0.0091	0.0496	0.0094	12:37:23	Yes
Mean:	3.559	3.559	0.0091				
SD:	0.010	0.010	0.0000				
%RSD:	0.275	0.275	0.30				

Sequence No.: 27 — **Autosampler Location: 26**
Sample ID: AD38629-003 — **Date Collected: 6/20/2023 12:37:24 PM**
Analyst: — **Data Type: Original**

Replicate Data: AD38629-003

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.535	2.535	0.0063	0.0346	0.0065	12:38:12	Yes
2	2.546	2.546	0.0063	0.0345	0.0066	12:38:47	Yes
Mean:	2.541	2.541	0.0063				
SD:	0.008	0.008	0.0000				
%RSD:	0.332	0.332	0.37				

Sequence No.: 28 Autosampler Location: 27
Sample ID: AD38629-004 Date Collected: 6/20/2023 12:38:49 PM
Analyst: Data Type: Original

Replicate Data: AD38629-004

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	8.509	8.509	0.0229	0.1245	0.0231	12:39:37	Yes
2	8.435	8.435	0.0227	0.1225	0.0229	12:40:12	Yes
Mean:	8.472	8.472	0.0228				
SD:	0.052	0.052	0.0001				
%RSD:	0.614	0.614	0.63				

Sequence No.: 29 Autosampler Location: 28
Sample ID: AD38629-005 Date Collected: 6/20/2023 12:40:13 PM
Analyst: Data Type: Original

Replicate Data: AD38629-005

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	7.917	7.917	0.0213	0.1158	0.0215	12:41:04	Yes
2	7.958	7.958	0.0214	0.1145	0.0216	12:41:39	Yes
Mean:	7.938	7.938	0.0213				
SD:	0.029	0.029	0.0001				
%RSD:	0.364	0.364	0.38				

Sequence No.: 30 Autosampler Location: 29
Sample ID: AD38571-016 Date Collected: 6/20/2023 12:41:40 PM
Analyst: Data Type: Original

Replicate Data: AD38571-016

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.310	0.310	0.0001	0.0008	0.0003	12:42:28	Yes
2	0.328	0.328	0.0002	0.0016	0.0004	12:43:03	Yes
Mean:	0.319	0.319	0.0001				
SD:	0.013	0.013	0.0000				
%RSD:	3.938	3.938	26.21				

Sequence No.: 31 Autosampler Location: 9
Sample ID: CCV V-397574 Date Collected: 6/20/2023 12:43:05 PM
Analyst: Data Type: Original

Replicate Data: CCV V-397574

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.73	10.73	0.0291	0.1578	0.0293	12:43:54	Yes
2	10.52	10.52	0.0285	0.1527	0.0287	12:44:29	Yes
Mean:	10.62	10.62	0.0288				
SD:	0.149	0.149	0.0004				
%RSD:	1.402	1.402	1.44				

QC value within limits for Hg 253.7 Recovery = 106.25%
All analyte(s) passed QC.

Sequence No.: 32 Autosampler Location: 1
Sample ID: CCB V-397575 Date Collected: 6/20/2023 12:44:51 PM
Analyst: Data Type: Original

Replicate Data: CCB V-397575

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.198	0.198	-0.0002	-0.0005	0.0000	12:45:40	Yes
2	0.205	0.205	-0.0002	-0.0001	0.0000	12:46:15	Yes
Mean:	0.201	0.201	-0.0002				
SD:	0.005	0.005	0.0000				

%RSD: 2.581 2.581 7.46
QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Metal Data
Digestion Logbook Data

Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 3010A 3005A 3050B 200.7/200.8 OTHER_____

Batch No.: 29868 Analyst: AMS

QC Number: 107880 Prep Date: 6/18/23

Matrix: Soil (6020) Reviewed By: [illegible]

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	50 mL	50 mL	25 mL	50 mL		--	
LCS	0.10 g					--	
LCSD	"					--	
1. AD 38586-001	0.50 g						Samples are combined prior to analysis to provide extra sample volume for analysis
1. Analytical Duplicate	"						
MR -001	"						
MS -007	"						Balance used: 039
MSD -008	"						Pipettes used: 153, 149
2. 38622-041	"						
3. -042	"						Hot Block used: 4
4. -043	"						
5. -044	"						
6. 38586-002	"						
7. -003	"						
8. -004	"						
9. 38617-007	"						
10. -008	"						
11. -009	"						
12. -010	"						
13. 38629-001	"						
14. -002	"						
15. -003	"						
16. -004	"						
17. -005	"						
18. 38571-006	"						
19.							
20.							

Hot Plate Temperature: 92.9 C (90-95° C) Start Time: 9:30 End Time: 12:30

	Volume mL	Lot #
LCS, LCSD	0.10 g	V- 14784
LLLCS, LLLCSD	—	V-
MS, MSD	0.25 mL	V- 14857, 14858
LLMS, LLMSD	—	V-

Acid	Vol mL	Lot#
HNO_3	2.5	V-15243
HCl	1.0	V-15244
H_2O_2	1.5	V-15214

Acid	Vol mL	Lot#
1:1 HNO_3	5.0	V-396398
1:1 HCl		V-

Relinquished By AMS Date 6/18/23

Received By [illegible] Date 6/18/23

T:\QC\FORMS\LOGBOOK FORMS\METALS\ICP sample prep log 2018 DOD.DOC

HG SAMPLE PREPARATION LOG

Hampton-Clarke/Veritech

ANALYTICAL METHOD: 245.1 7470A (7471B) OTHER_____

Batch No.:* 29868

QC Number: 107880

Matrix: Soil

Analyst: ARS

Prep Date: 6/18/23

Review By: JL

LAB ID#	MERCURY		COMMENTS	STANDARDS
	INITIAL	FINAL		
Method blank	25g	25g		CAL CURVE BLK 0ppb V- 397575
LCS	0.15g			
LCSD				STD 0.2 ~~ppb V-~~
1 AD38586-001				STD 0.5 ppb V- 397576
MR -001				STD 1.0 ppb V- 77
MS -007				STD 2.0 ppb V- 78
MSD -008				STD 5.0 ppb V- 79
2 ~~38622 MS~~				STD 10.0 ppb V- 80
3 38586-002				STD 25.0 ppb V- 81
4 -003				ICV 10.0 ppb V- 397573
5 -004				CCV 20.0 ppb V- 397574
6 38617-007				
7 -008				
8 -009				Balance used: 039
9 -010				Pipettes used: 153, 149
10 38629-002				
11 -003				Hot Block used: 6
12 -004				
13 -005				
14 38571-006				
15				
15				
15				
18				
15				
10				

Lot Numbers	Volume (mL)	Acid	Volume (mL)	Lot #
$KmnO_4$: V- 393823	3.75	HNO_3		V-
$K_2S_2O_8$: V-		HCl		V-
NH_2OH: V- 395509	1.5	H_2SO_4		V-
		Aqua Regia	1.25	V- 397572

**Block Temp.: 93.0 °C

Time In Block: 10:30

Time Out of Block: 11:00

Spike Volume & Lot #

LCS V- ~~14857~~ 14784 (1.5 / 0.25 ml)

MS V- 397561 0.250 ml

Standards/Control Batch B- 34980

StartTime: 9:30

EndTime: 11:30

**Temperature

245.1 / 7470A: 90-95C

7471B : 92-98C

Relinquished By: AS

*25 mLs of each standard was digested with this batch using the same reagents and at the same time as the above samples. The preparation of each standard may be referenced in Veriprog using the standard batch number and the corresponding V #s.

HG PREP 2018

Wet Chemistry Data

Hampton-Clarke Wet Chem Form1 Analysis Summary
% Solids

TestGroupName: % Solids SM2540G **Project #: 3061429**

TestGroup: %SOLIDS

Lab#	Client SampleID	Matrix	Dilution:	Result	Units:	RL	Prep Date	Analysis Date	Received Date	Collect Date
AD38586-001	HB-1 +QA\QC	Soil/Terracore	1	83	Percent			06/16/23	06/14/23	06/13/23
AD38586-002	DUP	Soil/Terracore	1	73	Percent			06/16/23	06/14/23	06/13/23
AD38586-003	HB-2	Soil	1	83	Percent			06/16/23	06/14/23	06/13/23
AD38586-004	HB-3	Soil	1	91	Percent			06/16/23	06/14/23	06/13/23
AD38586-007	HB-1 +QA\QC MS	Soil/Terracore	1	82	Percent			06/16/23	06/14/23	06/13/23
AD38586-008	HB-1 +QA\QC MS	Soil/Terracore	1	83	Percent			06/16/23	06/14/23	06/13/23

% Solids Report

Analysis Type: SOLIDS-SS
BatchID: SOLIDS-SS-15017

QcType	SampleID:	Rounded Result	Raw Result	Units	Tare Weight	Wet Weight	Dry Weight	Analysis Date	Analyzed By	QC RPD	Rpd Limit
DUP	AD38599-001	87	86.95163	Percent	1.33	10.22	9.05	06/16/23	BEENA	1.5	10
Sample	AD38586-001	83	83.41308	Percent	1.34	7.61	6.57	06/16/23	kwilson		
Sample	AD38586-002	73	72.60390	Percent	1.34	13.13	9.90	06/16/23	kwilson		
Sample	AD38586-003	83	83.05304	Percent	1.34	9.07	7.76	06/16/23	kwilson		
Sample	AD38586-004	91	90.69212	Percent	1.34	9.72	8.94	06/16/23	kwilson		
Sample	AD38589-016	87	86.69797	Percent	1.32	7.71	6.87	06/16/23	BEENA		
Sample	AD38589-017	81	81.26362	Percent	1.32	10.50	8.78	06/16/23	BEENA		
Sample	AD38586-007	82	81.99405	Percent	1.34	8.06	6.84	06/16/23	kwilson		
Sample	AD38586-008	83	83.42105	Percent	1.34	5.14	4.51	06/16/23	kwilson		
Sample	AD38599-001	88	88.26041	Percent	1.33	10.70	9.60	06/16/23	BEENA		
Sample	AD38599-002	94	93.77323	Percent	1.32	12.08	11.41	06/16/23	BEENA		
Sample	AD38599-003	93	93.48571	Percent	1.32	10.07	9.49	06/16/23	BEENA		
Sample	AD38599-004	93	93.06569	Percent	1.33	6.81	6.43	06/16/23	BEENA		
Sample	AD38599-005	90	89.56089	Percent	1.33	13.40	12.14	06/16/23	BEENA		

* - Indicates Failed Rpd Criteria

Hampton-Clarke
Analytical & Field Services

Last Page of Report

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ANALYTICAL REPORT

PREPARED FOR

Attn: Accounts Payable
Hampton-Clarke Veritech
175 Rt 46 West
Fairfield NJ 07004

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JOB DESCRIPTION

3062308 8628

JOB NUMBER

460-282979-1

Eurofins Edison
777 New Durham Road
Edison NJ 08817

See page two for job notes and contact information.

myEOL

Eurofins Edison

Job Notes

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Authorization

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Authorized for release by
Elizabeth J Flannery, Project Manager I
Elizabeth.Flannery@et.eurofinsus.com
732 549-3900

Table of Contents

Table of Contents

CASE NARRATIVE

Client: Hampton-Clarke Veritech

Project: 3062308 8628

Report Number: 460-282979-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 6/23/2023 3:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.9º C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

PERFLUORINATED HYDROCARBONS (PFC)

Samples AD38758-001 (460-282979-1), AD38758-004 (460-282979-2) and AD38758-005 (460-282979-3) were analyzed for Perfluorinated Hydrocarbons (PFC) in accordance with PFAS_DI. The samples were prepared on 07/17/2023 and analyzed on 08/08/2023.

No difficulties were encountered during the Perfluorinated Hydrocarbons (PFC) analysis.

All quality control parameters were within the acceptance limits.

PFCS BY LC/MS/MS

Samples AD38758-001 (460-282979-1) and AD38758-004 (460-282979-2) were analyzed for PFCs by LC/MS/MS in accordance with 1633. The samples were analyzed on 06/27/2023.

No difficulties were encountered during the PFCs by LC/MS/MS analysis.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: Hampton-Clarke Veritech
Project/Site: 3062308 8628

Job ID: 460-282979-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-282979-1	AD38758-001	Water	06/22/23 13:22	06/23/23 15:50
460-282979-2	AD38758-004	Water	06/22/23 00:00	06/23/23 15:50
460-282979-3	AD38758-005	Water	06/22/23 14:00	06/23/23 15:50

Detection Summary

Client: Hampton-Clarke Veritech
Project/Site: 3062308 8628

Job ID: 460-282979-1

Client Sample ID: AD38758-001 — Lab Sample ID: 460-282979-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	3.57	J	3.77	1.21	ng/L	1		1633	Total/NA
Perfluoroheptanoic acid	1.27	J	3.77	0.98	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid	2.90	J	3.77	0.94	ng/L	1		1633	Total/NA
Perfluoropentanoic acid	2.26	J I	7.54	1.88	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid	2.58	J	3.77	0.57	ng/L	1		1633	Total/NA
Total Suspended Solids	60.0		3.0	3.0	mg/L	1		1633 DRAFT	Total/NA

Client Sample ID: AD38758-004 — Lab Sample ID: 460-282979-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	2.72	J	3.80	1.21	ng/L	1		1633	Total/NA
Perfluorooctanesulfonic acid	3.04	J	3.80	0.95	ng/L	1		1633	Total/NA
Perfluorohexanoic acid	2.17	J	3.80	0.95	ng/L	1		1633	Total/NA
Perfluoropentanoic acid	1.95	J	7.59	1.90	ng/L	1		1633	Total/NA
Perfluorobutanesulfonic acid	2.77	J	3.80	0.57	ng/L	1		1633	Total/NA
Total Suspended Solids	60.0		3.0	3.0	mg/L	1		1633 DRAFT	Total/NA

Client Sample ID: AD38758-005 — Lab Sample ID: 460-282979-3

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Hampton-Clarke Veritech
Project/Site: 3062308 8628

Job ID: 460-282979-1

Method	Method Description	Protocol	Laboratory
1633	Per- and Polyfluoroalkyl Substances by LC/MS/MS	EPA	ELLE
1633 DRAFT	Percent Suspend Solids for Analysis PFAS in Aqueous Samples by LC/MS	EPA	ELLE
1633	Solid-Phase Extraction (SPE)	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Client Sample ID: AD38758-001

Date Collected: 06/22/23 13:22
Date Received: 06/23/23 15:50

Lab Sample ID: 460-282979-1

Matrix: Water

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.88	U	15.1	1.88	ng/L		07/17/23 07:22	08/08/23 22:32	1
Perfluorohexanesulfonic acid	1.07	U	3.77	1.07	ng/L		07/17/23 07:22	08/08/23 22:32	1
Perfluoroundecanoic acid	0.94	U	3.77	0.94	ng/L		07/17/23 07:22	08/08/23 22:32	1
Perfluorooctanoic acid	**3.57**	**J**	3.77	1.21	ng/L		07/17/23 07:22	08/08/23 22:32	1
Perfluorodecanesulfonic acid	0.94	U	3.77	0.94	ng/L		07/17/23 07:22	08/08/23 22:32	1
Perfluorotetradecanoic acid	0.94	U	3.77	0.94	ng/L		07/17/23 07:22	08/08/23 22:32	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.83	U	15.1	2.83	ng/L		07/17/23 07:22	08/08/23 22:32	1
NMeFOSA	0.94	U	3.77	0.94	ng/L		07/17/23 07:22	08/08/23 22:32	1
7:3 FTCA	18.8	U	94.2	18.8	ng/L		07/17/23 07:22	08/08/23 22:32	1
Perfluorodecanoic acid	0.94	U	3.77	0.94	ng/L		07/17/23 07:22	08/08/23 22:32	1
Perfluorotridecanoic acid	0.94	U	3.77	0.94	ng/L		07/17/23 07:22	08/08/23 22:32	1
PFEESA	0.94	U	7.54	0.94	ng/L		07/17/23 07:22	08/08/23 22:32	1
N-ethylperfluoro-1-octanesulfonamide	0.94	U	3.77	0.94	ng/L		07/17/23 07:22	08/08/23 22:32	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	3.20	U	15.1	3.20	ng/L		07/17/23 07:22	08/08/23 22:32	1
Perfluorononanoic acid	0.94	U	3.77	0.94	ng/L		07/17/23 07:22	08/08/23 22:32	1
HFPO-DA	3.77	U	15.1	3.77	ng/L		07/17/23 07:22	08/08/23 22:32	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	9.42	U	37.7	9.42	ng/L		07/17/23 07:22	08/08/23 22:32	1
Perfluoropentanesulfonic acid	0.94	U	3.77	0.94	ng/L		07/17/23 07:22	08/08/23 22:32	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	4.71	U	15.1	4.71	ng/L		07/17/23 07:22	08/08/23 22:32	1
Perfluorononanesulfonic acid	0.75	U	3.77	0.75	ng/L		07/17/23 07:22	08/08/23 22:32	1
Perfluoroheptanoic acid	**1.27**	**J**	3.77	0.98	ng/L		07/17/23 07:22	08/08/23 22:32	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	3.77	U	15.1	3.77	ng/L		07/17/23 07:22	08/08/23 22:32	1
Perfluorooctanesulfonic acid	**2.90**	**J**	3.77	0.94	ng/L		07/17/23 07:22	08/08/23 22:32	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	4.90	U	15.1	4.90	ng/L		07/17/23 07:22	08/08/23 22:32	1
Perfluoro-3-methoxypropanoic acid	0.94	U	7.54	0.94	ng/L		07/17/23 07:22	08/08/23 22:32	1
Perfluorobutanoic acid	3.77	U	15.1	3.77	ng/L		07/17/23 07:22	08/08/23 22:32	1
NEtFOSAA	1.32	U	3.77	1.32	ng/L		07/17/23 07:22	08/08/23 22:32	1
Perfluorododecanoic acid	0.94	U	3.77	0.94	ng/L		07/17/23 07:22	08/08/23 22:32	1
Perfluorohexanoic acid	0.94	U	3.77	0.94	ng/L		07/17/23 07:22	08/08/23 22:32	1
Perfluoro(4-methoxybutanoic acid)	1.88	U	7.54	1.88	ng/L		07/17/23 07:22	08/08/23 22:32	1
Perfluoro-3,6-dioxaheptanoic acid	1.88	U	7.54	1.88	ng/L		07/17/23 07:22	08/08/23 22:32	1
Perfluorododecanesulfonic acid (PFDoS)	1.70	U	3.77	1.70	ng/L		07/17/23 07:22	08/08/23 22:32	1
Perfluoropentanoic acid	**2.26**	**J I**	7.54	1.88	ng/L		07/17/23 07:22	08/08/23 22:32	1
5:3 FTCA	18.8	U	94.2	18.8	ng/L		07/17/23 07:22	08/08/23 22:32	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	9.42	U	37.7	9.42	ng/L		07/17/23 07:22	08/08/23 22:32	1
Perfluorooctanesulfonamide	0.94	U	3.77	0.94	ng/L		07/17/23 07:22	08/08/23 22:32	1
3:3 FTCA	2.83	U	18.8	2.83	ng/L		07/17/23 07:22	08/08/23 22:32	1
NMeFOSAA	2.26	U	7.54	2.26	ng/L		07/17/23 07:22	08/08/23 22:32	1
Perfluorobutanesulfonic acid	**2.58**	**J**	3.77	0.57	ng/L		07/17/23 07:22	08/08/23 22:32	1
Perfluoroheptanesulfonic acid	0.75	U	3.77	0.75	ng/L		07/17/23 07:22	08/08/23 22:32	1

Client Sample ID: AD38758-001

Lab Sample ID: 460-282979-1

Date Collected: 06/22/23 13:22

Matrix: Water

Date Received: 06/23/23 15:50

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*90.8*		*10 - 130*	*07/17/23 07:22*	*08/08/23 22:32*	*1*
13C5 PFPeA	*95.1*		*35 - 150*	*07/17/23 07:22*	*08/08/23 22:32*	*1*
13C5 PFHxA	*99.7*		*55 - 150*	*07/17/23 07:22*	*08/08/23 22:32*	*1*
13C4 PFHpA	*101*		*55 - 150*	*07/17/23 07:22*	*08/08/23 22:32*	*1*
13C8 PFOA	*88.8*		*60 - 140*	*07/17/23 07:22*	*08/08/23 22:32*	*1*
13C9 PFNA	*84.1*		*55 - 140*	*07/17/23 07:22*	*08/08/23 22:32*	*1*
13C6 PFDA	*90.6*		*50 - 140*	*07/17/23 07:22*	*08/08/23 22:32*	*1*
13C7 PFUnA	*92.9*		*30 - 140*	*07/17/23 07:22*	*08/08/23 22:32*	*1*
13C2-PFDoDA	*87.1*		*10 - 150*	*07/17/23 07:22*	*08/08/23 22:32*	*1*
13C2 PFTeDA	*75.6*		*10 - 130*	*07/17/23 07:22*	*08/08/23 22:32*	*1*
13C3 PFBS	*111*		*55 - 150*	*07/17/23 07:22*	*08/08/23 22:32*	*1*
13C3 PFHxS	*97.5*		*55 - 150*	*07/17/23 07:22*	*08/08/23 22:32*	*1*
13C8 PFOS	*94.1*		*45 - 140*	*07/17/23 07:22*	*08/08/23 22:32*	*1*
13C8 FOSA	*94.8*		*30 - 130*	*07/17/23 07:22*	*08/08/23 22:32*	*1*
d3-NMeFOSAA	*87.7*		*45 - 200*	*07/17/23 07:22*	*08/08/23 22:32*	*1*
d5-NEtFOSAA	*81.2*		*10 - 200*	*07/17/23 07:22*	*08/08/23 22:32*	*1*
M2-4:2 FTS	*92.7*		*60 - 200*	*07/17/23 07:22*	*08/08/23 22:32*	*1*
M2-6:2 FTS	*118*	*I*	*60 - 200*	*07/17/23 07:22*	*08/08/23 22:32*	*1*
M2-8:2 FTS	*97.2*		*50 - 200*	*07/17/23 07:22*	*08/08/23 22:32*	*1*
13C3 HFPO-DA	*90.2*		*25 - 160*	*07/17/23 07:22*	*08/08/23 22:32*	*1*
d7-N-MeFOSE-M	*75.6*		*10 - 150*	*07/17/23 07:22*	*08/08/23 22:32*	*1*
d9-N-EtFOSE-M	*74.7*		*10 - 150*	*07/17/23 07:22*	*08/08/23 22:32*	*1*
d5-NEtPFOSA	*52.0*		*10 - 130*	*07/17/23 07:22*	*08/08/23 22:32*	*1*
d3-NMePFOSA	*57.0*		*15 - 130*	*07/17/23 07:22*	*08/08/23 22:32*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (EPA 1633 DRAFT)	**60.0**		3.0	3.0	mg/L			06/27/23 11:23	1

Client Sample ID: AD38758-004

Lab Sample ID: 460-282979-2

Date Collected: 06/22/23 00:00

Matrix: Water

Date Received: 06/23/23 15:50

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.90	U	15.2	1.90	ng/L		07/17/23 07:22	08/08/23 23:37	1
Perfluorohexanesulfonic acid	1.08	U	3.80	1.08	ng/L		07/17/23 07:22	08/08/23 23:37	1
Perfluoroundecanoic acid	0.95	U	3.80	0.95	ng/L		07/17/23 07:22	08/08/23 23:37	1
Perfluorooctanoic acid	**2.72**	**J**	3.80	1.21	ng/L		07/17/23 07:22	08/08/23 23:37	1
Perfluorodecanesulfonic acid	0.95	U	3.80	0.95	ng/L		07/17/23 07:22	08/08/23 23:37	1
Perfluorotetradecanoic acid	0.95	U	3.80	0.95	ng/L		07/17/23 07:22	08/08/23 23:37	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.85	U	15.2	2.85	ng/L		07/17/23 07:22	08/08/23 23:37	1
NMeFOSA	0.95	U	3.80	0.95	ng/L		07/17/23 07:22	08/08/23 23:37	1
7:3 FTCA	19.0	U	94.9	19.0	ng/L		07/17/23 07:22	08/08/23 23:37	1
Perfluorodecanoic acid	0.95	U	3.80	0.95	ng/L		07/17/23 07:22	08/08/23 23:37	1
Perfluorotridecanoic acid	0.95	U	3.80	0.95	ng/L		07/17/23 07:22	08/08/23 23:37	1
PFEESA	0.95	U	7.59	0.95	ng/L		07/17/23 07:22	08/08/23 23:37	1
N-ethylperfluoro-1-octanesulfonamide	0.95	U	3.80	0.95	ng/L		07/17/23 07:22	08/08/23 23:37	1

Client Sample ID: AD38758-004

Date Collected: 06/22/23 00:00
Date Received: 06/23/23 15:50

Lab Sample ID: 460-282979-2

Matrix: Water

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	3.23	U	15.2	3.23	ng/L		07/17/23 07:22	08/08/23 23:37	1
Perfluorononanoic acid	0.95	U	3.80	0.95	ng/L		07/17/23 07:22	08/08/23 23:37	1
HFPO-DA	3.80	U	15.2	3.80	ng/L		07/17/23 07:22	08/08/23 23:37	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	9.49	U	38.0	9.49	ng/L		07/17/23 07:22	08/08/23 23:37	1
Perfluoropentanesulfonic acid	0.95	U	3.80	0.95	ng/L		07/17/23 07:22	08/08/23 23:37	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	4.75	U	15.2	4.75	ng/L		07/17/23 07:22	08/08/23 23:37	1
Perfluorononanesulfonic acid	0.76	U	3.80	0.76	ng/L		07/17/23 07:22	08/08/23 23:37	1
Perfluoroheptanoic acid	0.99	U	3.80	0.99	ng/L		07/17/23 07:22	08/08/23 23:37	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	3.80	U	15.2	3.80	ng/L		07/17/23 07:22	08/08/23 23:37	1
Perfluorooctanesulfonic acid	**3.04**	**J**	3.80	0.95	ng/L		07/17/23 07:22	08/08/23 23:37	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	4.94	U	15.2	4.94	ng/L		07/17/23 07:22	08/08/23 23:37	1
Perfluoro-3-methoxypropanoic acid	0.95	U	7.59	0.95	ng/L		07/17/23 07:22	08/08/23 23:37	1
Perfluorobutanoic acid	3.80	U	15.2	3.80	ng/L		07/17/23 07:22	08/08/23 23:37	1
NEtFOSAA	1.33	U	3.80	1.33	ng/L		07/17/23 07:22	08/08/23 23:37	1
Perfluorododecanoic acid	0.95	U	3.80	0.95	ng/L		07/17/23 07:22	08/08/23 23:37	1
Perfluorohexanoic acid	**2.17**	**J**	3.80	0.95	ng/L		07/17/23 07:22	08/08/23 23:37	1
Perfluoro(4-methoxybutanoic acid)	1.90	U	7.59	1.90	ng/L		07/17/23 07:22	08/08/23 23:37	1
Perfluoro-3,6-dioxaheptanoic acid	1.90	U	7.59	1.90	ng/L		07/17/23 07:22	08/08/23 23:37	1
Perfluorododecanesulfonic acid (PFDoS)	1.71	U	3.80	1.71	ng/L		07/17/23 07:22	08/08/23 23:37	1
Perfluoropentanoic acid	**1.95**	**J**	7.59	1.90	ng/L		07/17/23 07:22	08/08/23 23:37	1
5:3 FTCA	19.0	U	94.9	19.0	ng/L		07/17/23 07:22	08/08/23 23:37	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	9.49	U	38.0	9.49	ng/L		07/17/23 07:22	08/08/23 23:37	1
Perfluorooctanesulfonamide	0.95	U	3.80	0.95	ng/L		07/17/23 07:22	08/08/23 23:37	1
3:3 FTCA	2.85	U	19.0	2.85	ng/L		07/17/23 07:22	08/08/23 23:37	1
NMeFOSAA	2.28	U	7.59	2.28	ng/L		07/17/23 07:22	08/08/23 23:37	1
Perfluorobutanesulfonic acid	**2.77**	**J**	3.80	0.57	ng/L		07/17/23 07:22	08/08/23 23:37	1
Perfluoroheptanesulfonic acid	0.76	U	3.80	0.76	ng/L		07/17/23 07:22	08/08/23 23:37	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*89.8*		*10 - 130*	*07/17/23 07:22*	*08/08/23 23:37*	*1*
13C5 PFPeA	*91.4*		*35 - 150*	*07/17/23 07:22*	*08/08/23 23:37*	*1*
13C5 PFHxA	*77.3*		*55 - 150*	*07/17/23 07:22*	*08/08/23 23:37*	*1*
13C4 PFHpA	*98.7*		*55 - 150*	*07/17/23 07:22*	*08/08/23 23:37*	*1*
13C8 PFOA	*92.0*		*60 - 140*	*07/17/23 07:22*	*08/08/23 23:37*	*1*
13C9 PFNA	*86.0*		*55 - 140*	*07/17/23 07:22*	*08/08/23 23:37*	*1*
13C6 PFDA	*94.5*		*50 - 140*	*07/17/23 07:22*	*08/08/23 23:37*	*1*
13C7 PFUnA	*91.9*		*30 - 140*	*07/17/23 07:22*	*08/08/23 23:37*	*1*
13C2-PFDoDA	*83.8*		*10 - 150*	*07/17/23 07:22*	*08/08/23 23:37*	*1*
13C2 PFTeDA	*78.5*		*10 - 130*	*07/17/23 07:22*	*08/08/23 23:37*	*1*
13C3 PFBS	*99.0*		*55 - 150*	*07/17/23 07:22*	*08/08/23 23:37*	*1*
13C3 PFHxS	*88.2*		*55 - 150*	*07/17/23 07:22*	*08/08/23 23:37*	*1*
13C8 PFOS	*89.2*		*45 - 140*	*07/17/23 07:22*	*08/08/23 23:37*	*1*
13C8 FOSA	*85.0*		*30 - 130*	*07/17/23 07:22*	*08/08/23 23:37*	*1*

Client Sample ID: AD38758-004

Date Collected: 06/22/23 00:00
Date Received: 06/23/23 15:50

Lab Sample ID: 460-282979-2

Matrix: Water

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d3-NMeFOSAA	*76.7*		*45 - 200*	*07/17/23 07:22*	*08/08/23 23:37*	*1*
d5-NEtFOSAA	*77.0*		*10 - 200*	*07/17/23 07:22*	*08/08/23 23:37*	*1*
M2-4:2 FTS	*90.7*		*60 - 200*	*07/17/23 07:22*	*08/08/23 23:37*	*1*
M2-6:2 FTS	*100*	*I*	*60 - 200*	*07/17/23 07:22*	*08/08/23 23:37*	*1*
M2-8:2 FTS	*107*		*50 - 200*	*07/17/23 07:22*	*08/08/23 23:37*	*1*
13C3 HFPO-DA	*92.4*		*25 - 160*	*07/17/23 07:22*	*08/08/23 23:37*	*1*
d7-N-MeFOSE-M	*66.4*		*10 - 150*	*07/17/23 07:22*	*08/08/23 23:37*	*1*
d9-N-EtFOSE-M	*66.7*		*10 - 150*	*07/17/23 07:22*	*08/08/23 23:37*	*1*
d5-NEtPFOSA	*46.0*		*10 - 130*	*07/17/23 07:22*	*08/08/23 23:37*	*1*
d3-NMePFOSA	*47.6*		*15 - 130*	*07/17/23 07:22*	*08/08/23 23:37*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (EPA 1633 DRAFT)	**60.0**		3.0	3.0	mg/L			06/27/23 11:23	1

Client Sample ID: AD38758-005

Date Collected: 06/22/23 14:00
Date Received: 06/23/23 15:50

Lab Sample ID: 460-282979-3

Matrix: Water

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.94	U	15.5	1.94	ng/L		07/17/23 07:22	08/08/23 23:50	1
Perfluorohexanesulfonic acid	1.11	U	3.88	1.11	ng/L		07/17/23 07:22	08/08/23 23:50	1
Perfluoroundecanoic acid	0.97	U	3.88	0.97	ng/L		07/17/23 07:22	08/08/23 23:50	1
Perfluorooctanoic acid	1.24	U	3.88	1.24	ng/L		07/17/23 07:22	08/08/23 23:50	1
Perfluorodecanesulfonic acid	0.97	U	3.88	0.97	ng/L		07/17/23 07:22	08/08/23 23:50	1
Perfluorotetradecanoic acid	0.97	U	3.88	0.97	ng/L		07/17/23 07:22	08/08/23 23:50	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.91	U	15.5	2.91	ng/L		07/17/23 07:22	08/08/23 23:50	1
NMeFOSA	0.97	U	3.88	0.97	ng/L		07/17/23 07:22	08/08/23 23:50	1
7:3 FTCA	19.4	U	97.0	19.4	ng/L		07/17/23 07:22	08/08/23 23:50	1
Perfluorodecanoic acid	0.97	U	3.88	0.97	ng/L		07/17/23 07:22	08/08/23 23:50	1
Perfluorotridecanoic acid	0.97	U	3.88	0.97	ng/L		07/17/23 07:22	08/08/23 23:50	1
PFEESA	0.97	U	7.76	0.97	ng/L		07/17/23 07:22	08/08/23 23:50	1
N-ethylperfluoro-1-octanesulfonamide	0.97	U	3.88	0.97	ng/L		07/17/23 07:22	08/08/23 23:50	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	3.30	U	15.5	3.30	ng/L		07/17/23 07:22	08/08/23 23:50	1
Perfluorononanoic acid	0.97	U	3.88	0.97	ng/L		07/17/23 07:22	08/08/23 23:50	1
HFPO-DA	3.88	U	15.5	3.88	ng/L		07/17/23 07:22	08/08/23 23:50	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	9.70	U	38.8	9.70	ng/L		07/17/23 07:22	08/08/23 23:50	1
Perfluoropentanesulfonic acid	0.97	U	3.88	0.97	ng/L		07/17/23 07:22	08/08/23 23:50	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	4.85	U	15.5	4.85	ng/L		07/17/23 07:22	08/08/23 23:50	1
Perfluorononanesulfonic acid	0.78	U	3.88	0.78	ng/L		07/17/23 07:22	08/08/23 23:50	1
Perfluoroheptanoic acid	1.01	U	3.88	1.01	ng/L		07/17/23 07:22	08/08/23 23:50	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	3.88	U	15.5	3.88	ng/L		07/17/23 07:22	08/08/23 23:50	1
Perfluorooctanesulfonic acid	0.97	U	3.88	0.97	ng/L		07/17/23 07:22	08/08/23 23:50	1

Client Sample ID: AD38758-005

Date Collected: 06/22/23 14:00
Date Received: 06/23/23 15:50

Lab Sample ID: 460-282979-3

Matrix: Water

Method: EPA 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	5.04	U	15.5	5.04	ng/L		07/17/23 07:22	08/08/23 23:50	1
Perfluoro-3-methoxypropanoic acid	0.97	U	7.76	0.97	ng/L		07/17/23 07:22	08/08/23 23:50	1
Perfluorobutanoic acid	3.88	U	15.5	3.88	ng/L		07/17/23 07:22	08/08/23 23:50	1
NEtFOSAA	1.36	U	3.88	1.36	ng/L		07/17/23 07:22	08/08/23 23:50	1
Perfluorododecanoic acid	0.97	U	3.88	0.97	ng/L		07/17/23 07:22	08/08/23 23:50	1
Perfluorohexanoic acid	0.97	U	3.88	0.97	ng/L		07/17/23 07:22	08/08/23 23:50	1
Perfluoro(4-methoxybutanoic acid)	1.94	U	7.76	1.94	ng/L		07/17/23 07:22	08/08/23 23:50	1
Perfluoro-3,6-dioxaheptanoic acid	1.94	U	7.76	1.94	ng/L		07/17/23 07:22	08/08/23 23:50	1
Perfluorododecanesulfonic acid (PFDoS)	1.75	U	3.88	1.75	ng/L		07/17/23 07:22	08/08/23 23:50	1
Perfluoropentanoic acid	1.94	U	7.76	1.94	ng/L		07/17/23 07:22	08/08/23 23:50	1
5:3 FTCA	19.4	U	97.0	19.4	ng/L		07/17/23 07:22	08/08/23 23:50	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	9.70	U	38.8	9.70	ng/L		07/17/23 07:22	08/08/23 23:50	1
Perfluorooctanesulfonamide	0.97	U	3.88	0.97	ng/L		07/17/23 07:22	08/08/23 23:50	1
3:3 FTCA	2.91	U	19.4	2.91	ng/L		07/17/23 07:22	08/08/23 23:50	1
NMeFOSAA	2.33	U	7.76	2.33	ng/L		07/17/23 07:22	08/08/23 23:50	1
Perfluorobutanesulfonic acid	0.58	U	3.88	0.58	ng/L		07/17/23 07:22	08/08/23 23:50	1
Perfluoroheptanesulfonic acid	0.78	U	3.88	0.78	ng/L		07/17/23 07:22	08/08/23 23:50	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*90.0*		*10 - 130*	*07/17/23 07:22*	*08/08/23 23:50*	*1*
13C5 PFPeA	*92.3*		*35 - 150*	*07/17/23 07:22*	*08/08/23 23:50*	*1*
13C5 PFHxA	*86.5*		*55 - 150*	*07/17/23 07:22*	*08/08/23 23:50*	*1*
13C4 PFHpA	*91.2*		*55 - 150*	*07/17/23 07:22*	*08/08/23 23:50*	*1*
13C8 PFOA	*79.2*		*60 - 140*	*07/17/23 07:22*	*08/08/23 23:50*	*1*
13C9 PFNA	*101*		*55 - 140*	*07/17/23 07:22*	*08/08/23 23:50*	*1*
13C6 PFDA	*93.6*		*50 - 140*	*07/17/23 07:22*	*08/08/23 23:50*	*1*
13C7 PFUnA	*91.0*		*30 - 140*	*07/17/23 07:22*	*08/08/23 23:50*	*1*
13C2-PFDoDA	*83.9*		*10 - 150*	*07/17/23 07:22*	*08/08/23 23:50*	*1*
13C2 PFTeDA	*81.7*		*10 - 130*	*07/17/23 07:22*	*08/08/23 23:50*	*1*
13C3 PFBS	*110*		*55 - 150*	*07/17/23 07:22*	*08/08/23 23:50*	*1*
13C3 PFHxS	*91.1*		*55 - 150*	*07/17/23 07:22*	*08/08/23 23:50*	*1*
13C8 PFOS	*88.2*		*45 - 140*	*07/17/23 07:22*	*08/08/23 23:50*	*1*
13C8 FOSA	*91.2*		*30 - 130*	*07/17/23 07:22*	*08/08/23 23:50*	*1*
d3-NMeFOSAA	*90.5*		*45 - 200*	*07/17/23 07:22*	*08/08/23 23:50*	*1*
d5-NEtFOSAA	*87.6*		*10 - 200*	*07/17/23 07:22*	*08/08/23 23:50*	*1*
M2-4:2 FTS	*117*		*60 - 200*	*07/17/23 07:22*	*08/08/23 23:50*	*1*
M2-6:2 FTS	*91.8*		*60 - 200*	*07/17/23 07:22*	*08/08/23 23:50*	*1*
M2-8:2 FTS	*94.8*		*50 - 200*	*07/17/23 07:22*	*08/08/23 23:50*	*1*
13C3 HFPO-DA	*89.0*		*25 - 160*	*07/17/23 07:22*	*08/08/23 23:50*	*1*
d7-N-MeFOSE-M	*74.1*		*10 - 150*	*07/17/23 07:22*	*08/08/23 23:50*	*1*
d9-N-EtFOSE-M	*73.3*		*10 - 150*	*07/17/23 07:22*	*08/08/23 23:50*	*1*
d5-NEtPFOSA	*46.2*		*10 - 130*	*07/17/23 07:22*	*08/08/23 23:50*	*1*
d3-NMePFOSA	*45.7*		*15 - 130*	*07/17/23 07:22*	*08/08/23 23:50*	*1*

Isotope Dilution Summary

Client: Hampton-Clarke Veritech
Project/Site: 3062308 8628

Job ID: 460-282979-1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA	PFPeA	13C5PHA	C4PFHA	C8PFOA	C9PFNA	C6PFDA	13C7PUA
Lab Sample ID	Client Sample ID	(10-130)	(35-150)	(55-150)	(55-150)	(60-140)	(55-140)	(50-140)	(30-140)
460-282979-1	AD38758-001	90.8	95.1	99.7	101	88.8	84.1	90.6	92.9
460-282979-1 MS	AD38758-001	91.6	104	104	95.0	100	89.8	92.3	95.5
460-282979-1 MSD	AD38758-001	88.7	95.1	95.3	88.9	85.0	120	83.2	88.7
460-282979-2	AD38758-004	89.8	91.4	77.3	98.7	92.0	86.0	94.5	91.9
460-282979-3	AD38758-005	90.0	92.3	86.5	91.2	79.2	101	93.6	91.0
MB 410-397379/1-A	Method Blank	103	112	105	110	103	99.2	103	103

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFDoDA	PFTDA	C3PFBS	C3PFHS	C8PFOS	PFOSA	d3NMFOS	d5NEFOS
Lab Sample ID	Client Sample ID	(10-150)	(10-130)	(55-150)	(55-150)	(45-140)	(30-130)	(45-200)	(10-200)
460-282979-1	AD38758-001	87.1	75.6	111	97.5	94.1	94.8	87.7	81.2
460-282979-1 MS	AD38758-001	94.0	88.6	101	88.7	83.3	91.7	85.9	80.1
460-282979-1 MSD	AD38758-001	81.6	79.3	108	90.2	93.8	92.7	86.0	83.3
460-282979-2	AD38758-004	83.8	78.5	99.0	88.2	89.2	85.0	76.7	77.0
460-282979-3	AD38758-005	83.9	81.7	110	91.1	88.2	91.2	90.5	87.6
MB 410-397379/1-A	Method Blank	101	82.8	122	103	99.4	103	107	107

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		M242FTS	M262FTS	M282FTS	HFPODA	NMFM	NEFM	d5NPFSA	d3NMFSA
Lab Sample ID	Client Sample ID	(60-200)	(60-200)	(50-200)	(25-160)	(10-150)	(10-150)	(10-130)	(15-130)
460-282979-1	AD38758-001	92.7	118 I	97.2	90.2	75.6	74.7	52.0	57.0
460-282979-1 MS	AD38758-001	87.7	101	87.9	96.9	72.2	72.6	52.8	48.8
460-282979-1 MSD	AD38758-001	111	93.6	103	88.1	77.1	76.5	58.5	59.9
460-282979-2	AD38758-004	90.7	100 I	107	92.4	66.4	66.7	46.0	47.6
460-282979-3	AD38758-005	117	91.8	94.8	89.0	74.1	73.3	46.2	45.7
MB 410-397379/1-A	Method Blank	96.3	115	147	101	86.5	81.5	54.6	49.4

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDoDA = 13C2-PFDoDA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA

Isotope Dilution Summary

Client: Hampton-Clarke Veritech
Job ID: 460-282979-1
Project/Site: 3062308 8628

d3NMFSA = d3-NMePFOSA

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFBA	PFPeA	13C5PHA	C4PFHA	C8PFOA	C9PFNA	C6PFDA	13C7PUA
Lab Sample ID	Client Sample ID	(10-130)	(40-150)	(40-150)	(40-150)	(30-140)	(30-140)	(20-140)	(20-140)
LCS 410-397379/2-A	Lab Control Sample	97.2	102	94.9	104	92.1	116	91.5	96.2
LLCS 410-397379/3-A	Lab Control Sample	76.6	81.7	88.7	81.1	73.7	80.7	75.6	84.1

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFDoDA	PFTDA	C3PFBS	C3PFHS	C8PFOS	PFOSA	d3NMFOS	d5NEFOS
Lab Sample ID	Client Sample ID	(10-150)	(10-130)	(25-150)	(25-150)	(20-140)	(10-130)	(10-200)	(10-200)
LCS 410-397379/2-A	Lab Control Sample	93.6	88.1	109	95.9	99.3	97.8	91.0	90.6
LLCS 410-397379/3-A	Lab Control Sample	78.4	69.6	85.3	72.0	77.1	71.0	71.2	65.0

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		M242FTS	M262FTS	M282FTS	HFPODA	NMFM	NEFM	d5NPFSA	d3NMFSA
Lab Sample ID	Client Sample ID	(25-200)	(25-200)	(25-200)	(25-160)	(10-150)	(10-150)	(10-130)	(10-130)
LCS 410-397379/2-A	Lab Control Sample	96.7	133 I	101	100	80.6	80.8	62.4	59.0
LLCS 410-397379/3-A	Lab Control Sample	80.9	76.6 I	87.4	78.1	62.8	60.8	45.9	43.0

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
13C7PUA = 13C7 PFUnA
PFDoDA = 13C2-PFDoDA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
HFPODA = 13C3 HFPO-DA
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
d3NMFSA = d3-NMePFOSA

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Lab Sample ID: MB 410-397379/1-A
Matrix: Water
Analysis Batch: 405691

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 397379

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.00	U	8.00	1.00	ng/L		07/17/23 07:22	08/08/23 21:52	1
Perfluorohexanesulfonic acid	0.57	U	2.00	0.57	ng/L		07/17/23 07:22	08/08/23 21:52	1
Perfluoroundecanoic acid	0.50	U	2.00	0.50	ng/L		07/17/23 07:22	08/08/23 21:52	1
Perfluorooctanoic acid	0.64	U	2.00	0.64	ng/L		07/17/23 07:22	08/08/23 21:52	1
Perfluorodecanesulfonic acid	0.50	U	2.00	0.50	ng/L		07/17/23 07:22	08/08/23 21:52	1
Perfluorotetradecanoic acid	0.50	U	2.00	0.50	ng/L		07/17/23 07:22	08/08/23 21:52	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.50	U	8.00	1.50	ng/L		07/17/23 07:22	08/08/23 21:52	1
NMeFOSA	0.50	U	2.00	0.50	ng/L		07/17/23 07:22	08/08/23 21:52	1
7:3 FTCA	10.0	U	50.0	10.0	ng/L		07/17/23 07:22	08/08/23 21:52	1
Perfluorodecanoic acid	0.50	U	2.00	0.50	ng/L		07/17/23 07:22	08/08/23 21:52	1
Perfluorotridecanoic acid	0.50	U	2.00	0.50	ng/L		07/17/23 07:22	08/08/23 21:52	1
PFEESA	0.50	U	4.00	0.50	ng/L		07/17/23 07:22	08/08/23 21:52	1
N-ethylperfluoro-1-octanesulfonamide	0.50	U	2.00	0.50	ng/L		07/17/23 07:22	08/08/23 21:52	1
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	1.70	U	8.00	1.70	ng/L		07/17/23 07:22	08/08/23 21:52	1
Perfluorononanoic acid	0.50	U	2.00	0.50	ng/L		07/17/23 07:22	08/08/23 21:52	1
HFPO-DA	2.00	U	8.00	2.00	ng/L		07/17/23 07:22	08/08/23 21:52	1
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	5.00	U	20.0	5.00	ng/L		07/17/23 07:22	08/08/23 21:52	1
Perfluoropentanesulfonic acid	0.50	U	2.00	0.50	ng/L		07/17/23 07:22	08/08/23 21:52	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	2.50	U	8.00	2.50	ng/L		07/17/23 07:22	08/08/23 21:52	1
Perfluorononanesulfonic acid	0.40	U	2.00	0.40	ng/L		07/17/23 07:22	08/08/23 21:52	1
Perfluoroheptanoic acid	0.52	U	2.00	0.52	ng/L		07/17/23 07:22	08/08/23 21:52	1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	2.00	U	8.00	2.00	ng/L		07/17/23 07:22	08/08/23 21:52	1
Perfluorooctanesulfonic acid	0.50	U	2.00	0.50	ng/L		07/17/23 07:22	08/08/23 21:52	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	2.60	U	8.00	2.60	ng/L		07/17/23 07:22	08/08/23 21:52	1
Perfluoro-3-methoxypropanoic acid	0.50	U	4.00	0.50	ng/L		07/17/23 07:22	08/08/23 21:52	1
Perfluorobutanoic acid	2.00	U	8.00	2.00	ng/L		07/17/23 07:22	08/08/23 21:52	1
NEtFOSAA	0.70	U	2.00	0.70	ng/L		07/17/23 07:22	08/08/23 21:52	1
Perfluorododecanoic acid	0.50	U	2.00	0.50	ng/L		07/17/23 07:22	08/08/23 21:52	1
Perfluorohexanoic acid	0.50	U	2.00	0.50	ng/L		07/17/23 07:22	08/08/23 21:52	1
Perfluoro(4-methoxybutanoic acid)	1.00	U	4.00	1.00	ng/L		07/17/23 07:22	08/08/23 21:52	1
Perfluoro-3,6-dioxaheptanoic acid	1.00	U	4.00	1.00	ng/L		07/17/23 07:22	08/08/23 21:52	1
Perfluorododecanesulfonic acid (PFDoS)	0.90	U	2.00	0.90	ng/L		07/17/23 07:22	08/08/23 21:52	1
Perfluoropentanoic acid	1.00	U	4.00	1.00	ng/L		07/17/23 07:22	08/08/23 21:52	1
5:3 FTCA	10.0	U	50.0	10.0	ng/L		07/17/23 07:22	08/08/23 21:52	1
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	5.00	U	20.0	5.00	ng/L		07/17/23 07:22	08/08/23 21:52	1
Perfluorooctanesulfonamide	0.50	U	2.00	0.50	ng/L		07/17/23 07:22	08/08/23 21:52	1
3:3 FTCA	1.50	U	10.0	1.50	ng/L		07/17/23 07:22	08/08/23 21:52	1
NMeFOSAA	1.20	U	4.00	1.20	ng/L		07/17/23 07:22	08/08/23 21:52	1
Perfluorobutanesulfonic acid	0.30	U	2.00	0.30	ng/L		07/17/23 07:22	08/08/23 21:52	1
Perfluoroheptanesulfonic acid	0.40	U	2.00	0.40	ng/L		07/17/23 07:22	08/08/23 21:52	1

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	103		10 - 130	07/17/23 07:22	08/08/23 21:52	1
13C5 PFPeA	112		35 - 150	07/17/23 07:22	08/08/23 21:52	1
13C5 PFHxA	105		55 - 150	07/17/23 07:22	08/08/23 21:52	1
13C4 PFHpA	110		55 - 150	07/17/23 07:22	08/08/23 21:52	1
13C8 PFOA	103		60 - 140	07/17/23 07:22	08/08/23 21:52	1
13C9 PFNA	99.2		55 - 140	07/17/23 07:22	08/08/23 21:52	1
13C6 PFDA	103		50 - 140	07/17/23 07:22	08/08/23 21:52	1
13C7 PFUnA	103		30 - 140	07/17/23 07:22	08/08/23 21:52	1
13C2-PFDoDA	101		10 - 150	07/17/23 07:22	08/08/23 21:52	1
13C2 PFTeDA	82.8		10 - 130	07/17/23 07:22	08/08/23 21:52	1
13C3 PFBS	122		55 - 150	07/17/23 07:22	08/08/23 21:52	1
13C3 PFHxS	103		55 - 150	07/17/23 07:22	08/08/23 21:52	1
13C8 PFOS	99.4		45 - 140	07/17/23 07:22	08/08/23 21:52	1
13C8 FOSA	103		30 - 130	07/17/23 07:22	08/08/23 21:52	1
d3-NMeFOSAA	107		45 - 200	07/17/23 07:22	08/08/23 21:52	1
d5-NEtFOSAA	107		10 - 200	07/17/23 07:22	08/08/23 21:52	1
M2-4:2 FTS	96.3		60 - 200	07/17/23 07:22	08/08/23 21:52	1
M2-6:2 FTS	115		60 - 200	07/17/23 07:22	08/08/23 21:52	1
M2-8:2 FTS	147		50 - 200	07/17/23 07:22	08/08/23 21:52	1
13C3 HFPO-DA	101		25 - 160	07/17/23 07:22	08/08/23 21:52	1
d7-N-MeFOSE-M	86.5		10 - 150	07/17/23 07:22	08/08/23 21:52	1
d9-N-EtFOSE-M	81.5		10 - 150	07/17/23 07:22	08/08/23 21:52	1
d5-NEtPFOSA	54.6		10 - 130	07/17/23 07:22	08/08/23 21:52	1
d3-NMePFOSA	49.4		15 - 130	07/17/23 07:22	08/08/23 21:52	1

Lab Sample ID: LCS 410-397379/2-A
Matrix: Water
Analysis Batch: 405691

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 397379

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	93.5	96.75		ng/L		103	56 - 156
Perfluorohexanesulfonic acid	22.9	21.70		ng/L		95	57 - 146
Perfluoroundecanoic acid	25.0	25.73		ng/L		103	48 - 159
Perfluorooctanoic acid	25.0	24.64		ng/L		98	52 - 161
Perfluorodecanesulfonic acid	24.2	23.61		ng/L		98	51 - 147
Perfluorotetradecanoic acid	25.0	26.85		ng/L		107	47 - 161
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	94.5	85.03		ng/L		90	68 - 146
NMeFOSA	25.0	28.05		ng/L		112	63 - 145
7:3 FTCA	626	618.8		ng/L		99	50 - 138
Perfluorodecanoic acid	25.0	26.76		ng/L		107	52 - 147
Perfluorotridecanoic acid	25.0	25.09		ng/L		100	49 - 148
PFEESA	44.6	50.51		ng/L		113	56 - 151
N-ethylperfluoro-1-octanesulfonamide	25.0	27.47		ng/L		110	65 - 139
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	93.9	108.3		ng/L		115	67 - 146
Perfluorononanoic acid	25.0	23.65		ng/L		94	59 - 149
HFPO-DA	100	98.29		ng/L		98	63 - 144
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	250	258.4		ng/L		103	71 - 136

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-397379/2-A
Matrix: Water
Analysis Batch: 405691

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 397379

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluoropentanesulfonic acid	23.6	24.48		ng/L		104	59 - 151
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	95.2	69.61		ng/L		73	61 - 151
Perfluorononanesulfonic acid	24.1	24.78		ng/L		103	52 - 148
Perfluoroheptanoic acid	25.0	23.79		ng/L		95	54 - 154
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	94.5	91.95		ng/L		97	46 - 156
Perfluorooctanesulfonic acid	23.2	21.56		ng/L		93	58 - 149
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	96.2	96.16		ng/L		100	63 - 152
Perfluoro-3-methoxypropanoic acid	50.1	49.86		ng/L		100	51 - 145
Perfluorobutanoic acid	100	96.01		ng/L		96	58 - 148
NEtFOSAA	25.0	25.74		ng/L		103	59 - 146
Perfluorododecanoic acid	25.0	25.38		ng/L		101	64 - 142
Perfluorohexanoic acid	25.0	26.76		ng/L		107	55 - 152
Perfluoro(4-methoxybutanoic acid)	50.1	50.53		ng/L		101	55 - 148
Perfluoro-3,6-dioxaheptanoic acid	50.1	53.61		ng/L		107	48 - 161
Perfluorododecanesulfonic acid (PFDoS)	24.3	20.40		ng/L		84	36 - 145
Perfluoropentanoic acid	50.1	48.72		ng/L		97	54 - 152
5:3 FTCA	626	647.2		ng/L		103	63 - 134
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	250	254.6		ng/L		102	69 - 137
Perfluorooctanesulfonamide	25.0	25.10		ng/L		100	61 - 148
3:3 FTCA	125	120.0		ng/L		96	62 - 129
NMeFOSAA	25.0	25.44		ng/L		102	58 - 144
Perfluorobutanesulfonic acid	22.2	22.47		ng/L		101	62 - 144
Perfluoroheptanesulfonic acid	23.9	23.60		ng/L		99	55 - 152

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C4 PFBA	*97.2*		*10 - 130*
13C5 PFPeA	*102*		*40 - 150*
13C5 PFHxA	*94.9*		*40 - 150*
13C4 PFHpA	*104*		*40 - 150*
13C8 PFOA	*92.1*		*30 - 140*
13C9 PFNA	*116*		*30 - 140*
13C6 PFDA	*91.5*		*20 - 140*
13C7 PFUnA	*96.2*		*20 - 140*
13C2-PFDoDA	*93.6*		*10 - 150*
13C2 PFTeDA	*88.1*		*10 - 130*
13C3 PFBS	*109*		*25 - 150*
13C3 PFHxS	*95.9*		*25 - 150*
13C8 PFOS	*99.3*		*20 - 140*
13C8 FOSA	*97.8*		*10 - 130*
d3-NMeFOSAA	*91.0*		*10 - 200*
d5-NEtFOSAA	*90.6*		*10 - 200*
M2-4:2 FTS	*96.7*		*25 - 200*

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LCS 410-397379/2-A
Matrix: Water
Analysis Batch: 405691

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 397379

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-6:2 FTS	133	I	25 - 200
M2-8:2 FTS	101		25 - 200
13C3 HFPO-DA	100		25 - 160
d7-N-MeFOSE-M	80.6		10 - 150
d9-N-EtFOSE-M	80.8		10 - 150
d5-NEtPFOSA	62.4		10 - 130
d3-NMePFOSA	59.0		10 - 130

Lab Sample ID: LLCS 410-397379/3-A
Matrix: Water
Analysis Batch: 405691

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 397379

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	15.0	15.14		ng/L		101	44 - 167
Perfluorohexanesulfonic acid	3.66	3.558		ng/L		97	44 - 158
Perfluoroundecanoic acid	4.00	3.562		ng/L		89	50 - 155
Perfluorooctanoic acid	4.00	3.708		ng/L		93	57 - 161
Perfluorodecanesulfonic acid	3.86	3.079		ng/L		80	50 - 144
Perfluorotetradecanoic acid	4.00	3.827		ng/L		96	52 - 156
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	15.1	13.85		ng/L		92	61 - 148
NMeFOSA	4.00	4.245		ng/L		106	54 - 155
7:3 FTCA	100	79.36		ng/L		79	36 - 149
Perfluorodecanoic acid	4.00	4.330		ng/L		108	43 - 158
Perfluorotridecanoic acid	4.00	3.431		ng/L		86	52 - 140
PFEESA	7.12	5.527		ng/L		78	56 - 144
N-ethylperfluoro-1-octanesulfonamide	4.00	4.314		ng/L		108	49 - 156
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	15.0	13.12		ng/L		87	52 - 158
Perfluorononanoic acid	4.00	3.714		ng/L		93	53 - 157
HFPO-DA	16.0	13.46		ng/L		84	58 - 154
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	40.0	39.81		ng/L		100	56 - 151
Perfluoropentanesulfonic acid	3.76	3.525		ng/L		94	58 - 144
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	15.2	13.22		ng/L		87	48 - 158
Perfluorononanesulfonic acid	3.85	3.438		ng/L		89	46 - 151
Perfluoroheptanoic acid	4.00	3.832		ng/L		96	56 - 150
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	15.1	14.11		ng/L		93	36 - 158
Perfluorooctanesulfonic acid	3.71	3.474		ng/L		94	43 - 162
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	15.4	13.30		ng/L		87	46 - 165
Perfluoro-3-methoxypropanoic acid	8.00	6.176		ng/L		77	48 - 150
Perfluorobutanoic acid	16.0	14.31		ng/L		89	44 - 157
NEtFOSAA	4.00	3.955		ng/L		99	51 - 154
Perfluorododecanoic acid	4.00	3.554		ng/L		89	60 - 141

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: LLCS 410-397379/3-A
Matrix: Water
Analysis Batch: 405691

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 397379

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Perfluorohexanoic acid			4.00	3.571		ng/L		89	62 - 149		
Perfluoro(4-methoxybutanoic acid)			8.00	7.197		ng/L		90	49 - 154		
Perfluoro-3,6-dioxaheptanoic acid			8.00	6.713		ng/L		84	47 - 160		
Perfluorododecanesulfonic acid (PFDoS)			3.88	2.797		ng/L		72	30 - 138		
Perfluoropentanoic acid			8.00	7.167	I	ng/L		90	57 - 148		
5:3 FTCA			100	76.15		ng/L		76	39 - 156		
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol			40.0	39.59		ng/L		99	60 - 147		
Perfluorooctanesulfonamide			4.00	3.954		ng/L		99	47 - 163		
3:3 FTCA			20.0	18.08		ng/L		90	32 - 161		
NMeFOSAA			4.00	3.842	J	ng/L		96	32 - 160		
Perfluorobutanesulfonic acid			3.55	3.248		ng/L		92	63 - 145		
Perfluoroheptanesulfonic acid			3.81	3.189		ng/L		84	51 - 150		

Isotope Dilution	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
13C4 PFBA	*76.6*		*10 - 130*
13C5 PFPeA	*81.7*		*40 - 150*
13C5 PFHxA	*88.7*		*40 - 150*
13C4 PFHpA	*81.1*		*40 - 150*
13C8 PFOA	*73.7*		*30 - 140*
13C9 PFNA	*80.7*		*30 - 140*
13C6 PFDA	*75.6*		*20 - 140*
13C7 PFUnA	*84.1*		*20 - 140*
13C2-PFDoDA	*78.4*		*10 - 150*
13C2 PFTeDA	*69.6*		*10 - 130*
13C3 PFBS	*85.3*		*25 - 150*
13C3 PFHxS	*72.0*		*25 - 150*
13C8 PFOS	*77.1*		*20 - 140*
13C8 FOSA	*71.0*		*10 - 130*
d3-NMeFOSAA	*71.2*		*10 - 200*
d5-NEtFOSAA	*65.0*		*10 - 200*
M2-4:2 FTS	*80.9*		*25 - 200*
M2-6:2 FTS	*76.6*	*I*	*25 - 200*
M2-8:2 FTS	*87.4*		*25 - 200*
13C3 HFPO-DA	*78.1*		*25 - 160*
d7-N-MeFOSE-M	*62.8*		*10 - 150*
d9-N-EtFOSE-M	*60.8*		*10 - 150*
d5-NEtPFOSA	*45.9*		*10 - 130*
d3-NMePFOSA	*43.0*		*10 - 130*

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 460-282979-1 MS
Matrix: Water
Analysis Batch: 405691

Client Sample ID: AD38758-001
Prep Type: Total/NA
Prep Batch: 397379

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.88	U	176	189.0		ng/L		108	56 - 156
Perfluorohexanesulfonic acid	1.07	U	43.0	42.64		ng/L		99	57 - 146
Perfluoroundecanoic acid	0.94	U	47.0	46.55		ng/L		99	48 - 159
Perfluorooctanoic acid	3.57	J	47.0	52.59		ng/L		104	52 - 161
Perfluorodecanesulfonic acid	0.94	U	45.4	48.22		ng/L		106	51 - 147
Perfluorotetradecanoic acid	0.94	U	47.0	46.63		ng/L		99	47 - 161
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.83	U	177	167.0		ng/L		94	68 - 146
NMeFOSA	0.94	U	47.0	56.13		ng/L		119	63 - 145
7:3 FTCA	18.8	U	1180	1057		ng/L		90	50 - 138
Perfluorodecanoic acid	0.94	U	47.0	52.65		ng/L		112	52 - 147
Perfluorotridecanoic acid	0.94	U	47.0	46.14		ng/L		98	49 - 148
PFEESA	0.94	U	83.7	78.27		ng/L		93	56 - 151
N-ethylperfluoro-1-octanesulfonamide	0.94	U	47.0	52.39		ng/L		111	65 - 139
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	3.20	U	176	187.7		ng/L		106	67 - 146
Perfluorononanoic acid	0.94	U	47.0	48.38		ng/L		103	59 - 149
HFPO-DA	3.77	U	188	178.5		ng/L		95	63 - 144
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	9.42	U	470	497.1		ng/L		106	71 - 136
Perfluoropentanesulfonic acid	0.94	U	44.3	46.10		ng/L		104	59 - 151
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	4.71	U	179	162.3		ng/L		91	61 - 151
Perfluorononanesulfonic acid	0.75	U	45.2	50.93		ng/L		113	52 - 148
Perfluoroheptanoic acid	1.27	J	47.0	47.01		ng/L		97	54 - 154
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	3.77	U	177	171.3		ng/L		96	46 - 156
Perfluorooctanesulfonic acid	2.90	J	43.6	49.96		ng/L		108	58 - 149
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	4.90	U	181	212.9		ng/L		118	63 - 152
Perfluoro-3-methoxypropanoic acid	0.94	U	94.1	90.25		ng/L		96	51 - 145
Perfluorobutanoic acid	3.77	U	188	183.5		ng/L		98	58 - 148
NEtFOSAA	1.32	U	47.0	48.04		ng/L		102	59 - 146
Perfluorododecanoic acid	0.94	U	47.0	44.69		ng/L		95	64 - 142
Perfluorohexanoic acid	0.94	U	47.0	45.61		ng/L		97	55 - 152
Perfluoro(4-methoxybutanoic acid)	1.88	U	94.1	86.75		ng/L		92	55 - 148
Perfluoro-3,6-dioxaheptanoic acid	1.88	U	94.1	97.30		ng/L		103	48 - 161
Perfluorododecanesulfonic acid (PFDoS)	1.70	U	45.6	43.83		ng/L		96	36 - 145
Perfluoropentanoic acid	2.26	J I	94.1	95.10		ng/L		99	54 - 152
5:3 FTCA	18.8	U	1180	1093		ng/L		93	63 - 134
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	9.42	U	470	470.8		ng/L		100	69 - 137
Perfluorooctanesulfonamide	0.94	U	47.0	46.65		ng/L		99	61 - 148
3:3 FTCA	2.83	U	235	207.5		ng/L		88	62 - 129

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 460-282979-1 MS
Matrix: Water
Analysis Batch: 405691

Client Sample ID: AD38758-001
Prep Type: Total/NA
Prep Batch: 397379

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
NMeFOSAA	2.26	U	47.0	46.16		ng/L		98	58 - 144
Perfluorobutanesulfonic acid	2.58	J	41.7	45.53		ng/L		103	62 - 144
Perfluoroheptanesulfonic acid	0.75	U	44.8	46.04		ng/L		103	55 - 152

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C4 PFBA	*91.6*		*10 - 130*
13C5 PFPeA	*104*		*35 - 150*
13C5 PFHxA	*104*		*55 - 150*
13C4 PFHpA	*95.0*		*55 - 150*
13C8 PFOA	*100*		*60 - 140*
13C9 PFNA	*89.8*		*55 - 140*
13C6 PFDA	*92.3*		*50 - 140*
13C7 PFUnA	*95.5*		*30 - 140*
13C2-PFDoDA	*94.0*		*10 - 150*
13C2 PFTeDA	*88.6*		*10 - 130*
13C3 PFBS	*101*		*55 - 150*
13C3 PFHxS	*88.7*		*55 - 150*
13C8 PFOS	*83.3*		*45 - 140*
13C8 FOSA	*91.7*		*30 - 130*
d3-NMeFOSAA	*85.9*		*45 - 200*
d5-NEtFOSAA	*80.1*		*10 - 200*
M2-4:2 FTS	*87.7*		*60 - 200*
M2-6:2 FTS	*101*		*60 - 200*
M2-8:2 FTS	*87.9*		*50 - 200*
13C3 HFPO-DA	*96.9*		*25 - 160*
d7-N-MeFOSE-M	*72.2*		*10 - 150*
d9-N-EtFOSE-M	*72.6*		*10 - 150*
d5-NEtPFOSA	*52.8*		*10 - 130*
d3-NMePFOSA	*48.8*		*15 - 130*

Lab Sample ID: 460-282979-1 MSD
Matrix: Water
Analysis Batch: 405691

Client Sample ID: AD38758-001
Prep Type: Total/NA
Prep Batch: 397379

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.88	U	171	176.8		ng/L		103	56 - 156	7	30
Perfluorohexanesulfonic acid	1.07	U	42.0	42.27		ng/L		101	57 - 146	1	30
Perfluoroundecanoic acid	0.94	U	45.9	44.64		ng/L		97	48 - 159	4	30
Perfluorooctanoic acid	3.57	J	45.9	53.83		ng/L		109	52 - 161	2	30
Perfluorodecanesulfonic acid	0.94	U	44.3	43.30		ng/L		98	51 - 147	11	30
Perfluorotetradecanoic acid	0.94	U	45.9	45.56		ng/L		99	47 - 161	2	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.83	U	173	157.4		ng/L		91	68 - 146	6	30
NMeFOSA	0.94	U	45.9	50.81		ng/L		111	63 - 145	10	30
7:3 FTCA	18.8	U	1150	1002		ng/L		87	50 - 138	5	30
Perfluorodecanoic acid	0.94	U	45.9	46.90		ng/L		102	52 - 147	12	30
Perfluorotridecanoic acid	0.94	U	45.9	45.97		ng/L		100	49 - 148	0	30
PFEESA	0.94	U	81.8	77.31		ng/L		95	56 - 151	1	30

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 460-282979-1 MSD
Matrix: Water
Analysis Batch: 405691

Client Sample ID: AD38758-001
Prep Type: Total/NA
Prep Batch: 397379

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-ethylperfluoro-1-octanesulfonamide	0.94	U	45.9	52.18		ng/L		114	65 - 139	0	30
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	3.20	U	172	151.8		ng/L		88	67 - 146	21	30
Perfluorononanoic acid	0.94	U	45.9	41.08		ng/L		89	59 - 149	16	30
HFPO-DA	3.77	U	183	177.3		ng/L		97	63 - 144	1	30
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	9.42	U	459	473.7		ng/L		103	71 - 136	5	30
Perfluoropentanesulfonic acid	0.94	U	43.2	45.32		ng/L		105	59 - 151	2	30
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	4.71	U	175	169.9		ng/L		97	61 - 151	5	30
Perfluorononanesulfonic acid	0.75	U	44.2	47.68		ng/L		108	52 - 148	7	30
Perfluoroheptanoic acid	1.27	J	45.9	43.16		ng/L		91	54 - 154	9	30
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	3.77	U	173	164.1		ng/L		95	46 - 156	4	30
Perfluorooctanesulfonic acid	2.90	J	42.6	45.29		ng/L		99	58 - 149	10	30
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	4.90	U	176	168.1		ng/L		95	63 - 152	23	30
Perfluoro-3-methoxypropanoic acid	0.94	U	91.9	87.34		ng/L		95	51 - 145	3	30
Perfluorobutanoic acid	3.77	U	184	185.1		ng/L		101	58 - 148	1	30
NEtFOSAA	1.32	U	45.9	44.21		ng/L		96	59 - 146	8	30
Perfluorododecanoic acid	0.94	U	45.9	47.68		ng/L		104	64 - 142	6	30
Perfluorohexanoic acid	0.94	U	45.9	44.26		ng/L		96	55 - 152	3	30
Perfluoro(4-methoxybutanoic acid)	1.88	U	91.9	87.80		ng/L		96	55 - 148	1	30
Perfluoro-3,6-dioxaheptanoic acid	1.88	U	91.9	89.46		ng/L		97	48 - 161	8	30
Perfluorododecanesulfonic acid (PFDoS)	1.70	U	44.6	39.39		ng/L		88	36 - 145	11	30
Perfluoropentanoic acid	2.26	J I	91.9	88.64		ng/L		94	54 - 152	7	30
5:3 FTCA	18.8	U	1150	1069		ng/L		93	63 - 134	2	30
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	9.42	U	459	468.0		ng/L		102	69 - 137	1	30
Perfluorooctanesulfonamide	0.94	U	45.9	47.81		ng/L		104	61 - 148	2	30
3:3 FTCA	2.83	U	229	205.5		ng/L		90	62 - 129	1	30
NMeFOSAA	2.26	U	45.9	44.39		ng/L		97	58 - 144	4	30
Perfluorobutanesulfonic acid	2.58	J	40.7	38.94		ng/L		89	62 - 144	16	30
Perfluoroheptanesulfonic acid	0.75	U	43.8	43.03		ng/L		98	55 - 152	7	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C4 PFBA	*88.7*		*10 - 130*
13C5 PFPeA	*95.1*		*35 - 150*
13C5 PFHxA	*95.3*		*55 - 150*
13C4 PFHpA	*88.9*		*55 - 150*
13C8 PFOA	*85.0*		*60 - 140*
13C9 PFNA	*120*		*55 - 140*
13C6 PFDA	*83.2*		*50 - 140*
13C7 PFUnA	*88.7*		*30 - 140*
13C2-PFDoDA	*81.6*		*10 - 150*

Method: 1633 - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Lab Sample ID: 460-282979-1 MSD
Matrix: Water
Analysis Batch: 405691

Client Sample ID: AD38758-001
Prep Type: Total/NA
Prep Batch: 397379

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C2 PFTeDA	79.3		10 - 130
13C3 PFBS	108		55 - 150
13C3 PFHxS	90.2		55 - 150
13C8 PFOS	93.8		45 - 140
13C8 FOSA	92.7		30 - 130
d3-NMeFOSAA	86.0		45 - 200
d5-NEtFOSAA	83.3		10 - 200
M2-4:2 FTS	111		60 - 200
M2-6:2 FTS	93.6		60 - 200
M2-8:2 FTS	103		50 - 200
13C3 HFPO-DA	88.1		25 - 160
d7-N-MeFOSE-M	77.1		10 - 150
d9-N-EtFOSE-M	76.5		10 - 150
d5-NEtPFOSA	58.5		10 - 130
d3-NMePFOSA	59.9		15 - 130

Qualifiers

LCMS

Qualifier	Qualifier Description
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Hampton-Clarke Veritech
Project/Site: 3062308 8628

Job ID: 460-282979-1

LCMS

Prep Batch: 397379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-282979-1	AD38758-001	Total/NA	Water	1633	
460-282979-2	AD38758-004	Total/NA	Water	1633	
460-282979-3	AD38758-005	Total/NA	Water	1633	
MB 410-397379/1-A	Method Blank	Total/NA	Water	1633	
LCS 410-397379/2-A	Lab Control Sample	Total/NA	Water	1633	
LLCS 410-397379/3-A	Lab Control Sample	Total/NA	Water	1633	
460-282979-1 MS	AD38758-001	Total/NA	Water	1633	
460-282979-1 MSD	AD38758-001	Total/NA	Water	1633	

Analysis Batch: 405691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-282979-1	AD38758-001	Total/NA	Water	1633	397379
460-282979-2	AD38758-004	Total/NA	Water	1633	397379
460-282979-3	AD38758-005	Total/NA	Water	1633	397379
MB 410-397379/1-A	Method Blank	Total/NA	Water	1633	397379
LCS 410-397379/2-A	Lab Control Sample	Total/NA	Water	1633	397379
LLCS 410-397379/3-A	Lab Control Sample	Total/NA	Water	1633	397379
460-282979-1 MS	AD38758-001	Total/NA	Water	1633	397379
460-282979-1 MSD	AD38758-001	Total/NA	Water	1633	397379

General Chemistry

Analysis Batch: 391245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-282979-1	AD38758-001	Total/NA	Water	1633 DRAFT	
460-282979-2	AD38758-004	Total/NA	Water	1633 DRAFT	

Lab Chronicle

Client: Hampton-Clarke Veritech
Project/Site: 3062308 8628

Job ID: 460-282979-1

Client Sample ID: AD38758-001

Date Collected: 06/22/23 13:22
Date Received: 06/23/23 15:50

Lab Sample ID: 460-282979-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			397379	BX2W	ELLE	07/17/23 07:22
Total/NA	Analysis	1633		1	405691	QY4X	ELLE	08/08/23 22:32
Total/NA	Analysis	1633 DRAFT		1	391245	M98K	ELLE	06/27/23 11:23

Client Sample ID: AD38758-004

Date Collected: 06/22/23 00:00
Date Received: 06/23/23 15:50

Lab Sample ID: 460-282979-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			397379	BX2W	ELLE	07/17/23 07:22
Total/NA	Analysis	1633		1	405691	QY4X	ELLE	08/08/23 23:37
Total/NA	Analysis	1633 DRAFT		1	391245	M98K	ELLE	06/27/23 11:23

Client Sample ID: AD38758-005

Date Collected: 06/22/23 14:00
Date Received: 06/23/23 15:50

Lab Sample ID: 460-282979-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	1633			397379	BX2W	ELLE	07/17/23 07:22
Total/NA	Analysis	1633		1	405691	QY4X	ELLE	08/08/23 23:50

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Hampton-Clarke Veritech
Project/Site: 3062308 8628

Job ID: 460-282979-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alabama	State	43200	01-31-24
Alaska	State	PA00009	06-30-24
Alaska (UST)	State	17-027	02-28-24
Arizona	State	AZ0780	03-12-24
Arkansas DEQ	State	88-00660	08-09-24
California	State	2792	11-30-23
Colorado	State	PA00009	06-30-24
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-24
Delaware (DW)	State	N/A	01-31-24
Florida	NELAP	E87997	06-30-24
Georgia (DW)	State	C048	01-31-24
Hawaii	State	N/A	01-31-24
Illinois	NELAP	200027	01-31-24
Iowa	State	361	03-01-24
Kansas	NELAP	E-10151	10-31-23
Kentucky (DW)	State	KY90088	12-31-23
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23
Louisiana (All)	NELAP	02055	06-30-24
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-24
Massachusetts	State	M-PA009	06-30-24
Michigan	State	9930	01-31-24
Minnesota	NELAP	042-999-487	12-31-23
Mississippi	State	023	01-31-24
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-24
Nebraska	State	NE-OS-32-17	01-31-24
New Hampshire	NELAP	2730	01-10-24
New Jersey	NELAP	PA011	06-30-24
New York	NELAP	10670	04-01-24
North Carolina (DW)	State	42705	07-31-24
North Carolina (WW/SW)	State	521	12-31-23
North Dakota	State	R-205	01-31-24
Oklahoma	NELAP	9804	08-31-23
Oregon	NELAP	PA200001	09-11-23
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	01-31-24
Rhode Island	State	LAO00338	12-31-23
South Carolina	State	89002	01-31-24
Tennessee	State	02838	01-31-24
Texas	NELAP	T104704194-23-46	08-31-23
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-23
Virginia	NELAP	460182	06-14-25
Washington	State	C457	04-11-24
West Virginia (DW)	State	9906 C	12-31-23

Client: Hampton-Clarke Veritech
Job ID: 460-282979-1
Project/Site: 3062308 8628

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
West Virginia DEP	State	055	07-31-24
Wyoming	State	8TMS-L	01-31-24
Wyoming (UST)	A2LA	0001.01	11-30-24

1633

Per- and Polyfluoroalkyl Substances by LC/MS/MS

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 460-282979-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	PFBA #	PFPeA #	M242FTS #	13C5PHA #	C3PFBS #	HFPODA #	C4PFHA #	M262FTS #
AD38758-001	460-282979-1	90.8	95.1	92.7	99.7	111	90.2	101	118 I
AD38758-004	460-282979-2	89.8	91.4	90.7	77.3	99.0	92.4	98.7	100 I
AD38758-005	460-282979-3	90.0	92.3	117	86.5	110	89.0	91.2	91.8
	MB 410-397379/1-A	103	112	96.3	105	122	101	110	115
AD38758-001 MS	460-282979-1 MS	91.6	104	87.7	104	101	96.9	95.0	101
AD38758-001 MSD	460-282979-1 MSD	88.7	95.1	111	95.3	108	88.1	88.9	93.6

	QC LIMITS
PFBA = 13C4 PFBA	10-130
PFPeA = 13C5 PFPeA	35-150
M242FTS = M2-4:2 FTS	60-200
13C5PHA = 13C5 PFHxA	55-150
C3PFBS = 13C3 PFBS	55-150
HFPODA = 13C3 HFPO-DA	25-160
C4PFHA = 13C4 PFHpA	55-150
M262FTS = M2-6:2 FTS	60-200

Column to be used to flag recovery values

FORM II 1633

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 460-282979-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	C8PFOA #	C3PFHS #	C9PFNA #	M282FTS #	d3NMFOS #	C6PFDA #	d5NEFOS #	C8PFOS #
AD38758-001	460-282979-1	88.8	97.5	84.1	97.2	87.7	90.6	81.2	94.1
AD38758-004	460-282979-2	92.0	88.2	86.0	107	76.7	94.5	77.0	89.2
AD38758-005	460-282979-3	79.2	91.1	101	94.8	90.5	93.6	87.6	88.2
	MB 410-397379/1-A	103	103	99.2	147	107	103	107	99.4
AD38758-001 MS	460-282979-1 MS	100	88.7	89.8	87.9	85.9	92.3	80.1	83.3
AD38758-001 MSD	460-282979-1 MSD	85.0	90.2	120	103	86.0	83.2	83.3	93.8

	QC LIMITS
C8PFOA = 13C8 PFOA	60-140
C3PFHS = 13C3 PFHxS	55-150
C9PFNA = 13C9 PFNA	55-140
M282FTS = M2-8:2 FTS	50-200
d3NMFOS = d3-NMeFOSAA	45-200
C6PFDA = 13C6 PFDA	50-140
d5NEFOS = d5-NEtFOSAA	10-200
C8PFOS = 13C8 PFOS	45-140

Column to be used to flag recovery values

FORM II 1633

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 460-282979-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	13C7PUA #	PFDoDA #	PFOSA #	PFTDA #	NMFM #	d3NMFSA #	NEFM #	d5NPFSA #
AD38758-001	460-282979-1	92.9	87.1	94.8	75.6	75.6	57.0	74.7	52.0
AD38758-004	460-282979-2	91.9	83.8	85.0	78.5	66.4	47.6	66.7	46.0
AD38758-005	460-282979-3	91.0	83.9	91.2	81.7	74.1	45.7	73.3	46.2
	MB 410-397379/1-A	103	101	103	82.8	86.5	49.4	81.5	54.6
AD38758-001 MS	460-282979-1 MS	95.5	94.0	91.7	88.6	72.2	48.8	72.6	52.8
AD38758-001 MSD	460-282979-1 MSD	88.7	81.6	92.7	79.3	77.1	59.9	76.5	58.5

	QC LIMITS
13C7PUA = 13C7 PFUnA	30-140
PFDoDA = 13C2-PFDoDA	10-150
PFOSA = 13C8 FOSA	30-130
PFTDA = 13C2 PFTeDA	10-130
NMFM = d7-N-MeFOSE-M	10-150
d3NMFSA = d3-NMePFOSA	15-130
NEFM = d9-N-EtFOSE-M	10-150
d5NPFSA = d5-NEtPFOSA	10-130

Column to be used to flag recovery values

FORM II 1633

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 460-282979-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	PFBA #	PFPeA #	M242FTS #	13C5PHA #	C3PFBS #	HFPODA #	C4PFHA #	M262FTS #
	LCS 410-397379/2-A	97.2	102	96.7	94.9	109	100	104	133 I
	LLCS 410-397379/3-A	76.6	81.7	80.9	88.7	85.3	78.1	81.1	76.6 I

	QC LIMITS
PFBA = 13C4 PFBA	10-130
PFPeA = 13C5 PFPeA	40-150
M242FTS = M2-4:2 FTS	25-200
13C5PHA = 13C5 PFHxA	40-150
C3PFBS = 13C3 PFBS	25-150
HFPODA = 13C3 HFPO-DA	25-160
C4PFHA = 13C4 PFHpA	40-150
M262FTS = M2-6:2 FTS	25-200

Column to be used to flag recovery values

FORM II 1633

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 460-282979-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	C8PFOA #	C3PFHS #	C9PFNA #	M282FTS #	d3NMFOS #	C6PFDA #	d5NEFOS #	C8PFOS #
	LCS 410-397379/2-A	92.1	95.9	116	101	91.0	91.5	90.6	99.3
	LLCS 410-397379/3-A	73.7	72.0	80.7	87.4	71.2	75.6	65.0	77.1

	QC LIMITS
C8PFOA = 13C8 PFOA	30-140
C3PFHS = 13C3 PFHxS	25-150
C9PFNA = 13C9 PFNA	30-140
M282FTS = M2-8:2 FTS	25-200
d3NMFOS = d3-NMeFOSAA	10-200
C6PFDA = 13C6 PFDA	20-140
d5NEFOS = d5-NEtFOSAA	10-200
C8PFOS = 13C8 PFOS	20-140

Column to be used to flag recovery values

FORM II 1633

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 460-282979-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Gemini C18 ID: 3 (mm)

Client Sample ID	Lab Sample ID	13C7PUA #	PFDoDA #	PFOSA #	PFTDA #	NMFM #	d3NMFSA #	NEFM #	d5NPFSA #
	LCS 410-397379/2-A	96.2	93.6	97.8	88.1	80.6	59.0	80.8	62.4
	LLCS 410-397379/3-A	84.1	78.4	71.0	69.6	62.8	43.0	60.8	45.9

	QC LIMITS
13C7PUA = 13C7 PFUnA	20-140
PFDoDA = 13C2-PFDoDA	10-150
PFOSA = 13C8 FOSA	10-130
PFTDA = 13C2 PFTeDA	10-130
NMFM = d7-N-MeFOSE-M	10-150
d3NMFSA = d3-NMePFOSA	10-130
NEFM = d9-N-EtFOSE-M	10-150
d5NPFSA = d5-NEtPFOSA	10-130

Column to be used to flag recovery values

FORM II 1633

FORM III
PFAS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 23AUG08-54.d

Lab ID: LCS 410-397379/2-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
13C4 PFBA	100	97.22	97.2	10-130	
13C5 PFPeA	50.0	51.12	102	40-150	
13C5 PFHxA	25.0	23.73	94.9	40-150	
13C4 PFHpA	25.0	25.93	104	40-150	
13C8 PFOA	25.0	23.02	92.1	30-140	
13C9 PFNA	12.5	14.55	116	30-140	
13C6 PFDA	12.5	11.44	91.5	20-140	
13C7 PFUnA	12.5	12.03	96.2	20-140	
13C2-PFDoDA	12.5	11.69	93.6	10-150	
13C2 PFTeDA	12.5	11.01	88.1	10-130	
13C3 PFBS	23.3	25.28	109	25-150	
13C3 PFHxS	23.7	22.74	95.9	25-150	
13C8 PFOS	24.0	23.77	99.3	20-140	
13C8 FOSA	25.0	24.44	97.8	10-130	
d3-NMeFOSAA	50.0	45.51	91.0	10-200	
d5-NEtFOSAA	50.0	45.32	90.6	10-200	
M2-4:2 FTS	46.9	45.35	96.7	25-200	
M2-6:2 FTS	47.6	63.16	133	25-200	I
M2-8:2 FTS	48.0	48.33	101	25-200	
13C3 HFPO-DA	100	100.1	100	25-160	
d7-N-MeFOSE-M	250	201.5	80.6	10-150	
d9-N-EtFOSE-M	250	201.9	80.8	10-150	
d5-NEtPFOSA	25.0	15.60	62.4	10-130	
d3-NMePFOSA	25.0	14.74	59.0	10-130	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	93.5	96.75	103	56-156	
Perfluorohexanesulfonic acid	22.9	21.70	95	57-146	
Perfluoroundecanoic acid	25.0	25.73	103	48-159	
Perfluorooctanoic acid	25.0	24.64	98	52-161	
Perfluorodecanesulfonic acid	24.2	23.61	98	51-147	
Perfluorotetradecanoic acid	25.0	26.85	107	47-161	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	94.5	85.03	90	68-146	
NMeFOSA	25.0	28.05	112	63-145	
7:3 FTCA	626	618.8	99	50-138	
Perfluorodecanoic acid	25.0	26.76	107	52-147	
Perfluorotridecanoic acid	25.0	25.09	100	49-148	
PFEESA	44.6	50.51	113	56-151	
N-ethylperfluoro-1-octanesulfonamide	25.0	27.47	110	65-139	
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	93.9	108.3	115	67-146	

Column to be used to flag recovery and RPD values

FORM III 1633

FORM III
PFAS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 23AUG08-54.d

Lab ID: LCS 410-397379/2-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
Perfluorononanoic acid	25.0	23.65	94	59-149	
HFPO-DA	100	98.29	98	63-144	
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	250	258.4	103	71-136	
Perfluoropentanesulfonic acid	23.6	24.48	104	59-151	
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	95.2	69.61	73	61-151	
Perfluorononanesulfonic acid	24.1	24.78	103	52-148	
Perfluoroheptanoic acid	25.0	23.79	95	54-154	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	94.5	91.95	97	46-156	
Perfluorooctanesulfonic acid	23.2	21.56	93	58-149	
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	96.2	96.16	100	63-152	
Perfluoro-3-methoxypropanoic acid	50.1	49.86	100	51-145	
Perfluorobutanoic acid	100	96.01	96	58-148	
NEtFOSAA	25.0	25.74	103	59-146	
Perfluorododecanoic acid	25.0	25.38	101	64-142	
Perfluorohexanoic acid	25.0	26.76	107	55-152	
Perfluoro(4-methoxybutanoic acid)	50.1	50.53	101	55-148	
Perfluoro-3,6-dioxaheptanoic acid	50.1	53.61	107	48-161	
Perfluorododecanesulfonic acid (PFDoS)	24.3	20.40	84	36-145	
Perfluoropentanoic acid	50.1	48.72	97	54-152	
5:3 FTCA	626	647.2	103	63-134	
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	250	254.6	102	69-137	
Perfluorooctanesulfonamide	25.0	25.10	100	61-148	
3:3 FTCA	125	120.0	96	62-129	
NMeFOSAA	25.0	25.44	102	58-144	
Perfluorobutanesulfonic acid	22.2	22.47	101	62-144	
Perfluoroheptanesulfonic acid	23.9	23.60	99	55-152	

Column to be used to flag recovery and RPD values

FORM III 1633

FORM III
PFAS LOW LEVEL CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 23AUG08-55.d

Lab ID: LLCS 410-397379/3-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LLCS CONCENTRATION (ng/L)	LLCS % REC	QC LIMITS REC	#
13C4 PFBA	100	76.62	76.6	10-130	
13C5 PFPeA	50.0	40.83	81.7	40-150	
13C5 PFHxA	25.0	22.18	88.7	40-150	
13C4 PFHpA	25.0	20.27	81.1	40-150	
13C8 PFOA	25.0	18.44	73.7	30-140	
13C9 PFNA	12.5	10.09	80.7	30-140	
13C6 PFDA	12.5	9.449	75.6	20-140	
13C7 PFUnA	12.5	10.52	84.1	20-140	
13C2-PFDoDA	12.5	9.798	78.4	10-150	
13C2 PFTeDA	12.5	8.699	69.6	10-130	
13C3 PFBS	23.3	19.87	85.3	25-150	
13C3 PFHxS	23.7	17.06	72.0	25-150	
13C8 PFOS	24.0	18.46	77.1	20-140	
13C8 FOSA	25.0	17.75	71.0	10-130	
d3-NMeFOSAA	50.0	35.62	71.2	10-200	
d5-NEtFOSAA	50.0	32.50	65.0	10-200	
M2-4:2 FTS	46.9	37.93	80.9	25-200	
M2-6:2 FTS	47.6	36.40	76.6	25-200	I
M2-8:2 FTS	48.0	41.93	87.4	25-200	
13C3 HFPO-DA	100	78.06	78.1	25-160	
d7-N-MeFOSE-M	250	156.9	62.8	10-150	
d9-N-EtFOSE-M	250	152.0	60.8	10-150	
d5-NEtPFOSA	25.0	11.48	45.9	10-130	
d3-NMePFOSA	25.0	10.75	43.0	10-130	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	15.0	15.14	101	44-167	
Perfluorohexanesulfonic acid	3.66	3.558	97	44-158	
Perfluoroundecanoic acid	4.00	3.562	89	50-155	
Perfluorooctanoic acid	4.00	3.708	93	57-161	
Perfluorodecanesulfonic acid	3.86	3.079	80	50-144	
Perfluorotetradecanoic acid	4.00	3.827	96	52-156	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	15.1	13.85	92	61-148	
NMeFOSA	4.00	4.245	106	54-155	
7:3 FTCA	100	79.36	79	36-149	
Perfluorodecanoic acid	4.00	4.330	108	43-158	
Perfluorotridecanoic acid	4.00	3.431	86	52-140	
PFEESA	7.12	5.527	78	56-144	
N-ethylperfluoro-1-octanesulfonamide	4.00	4.314	108	49-156	
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	15.0	13.12	87	52-158	

Column to be used to flag recovery and RPD values

FORM III 1633

FORM III
PFAS LOW LEVEL CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 23AUG08-55.d

Lab ID: LLCS 410-397379/3-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LLCS CONCENTRATION (ng/L)	LLCS % REC	QC LIMITS REC	#
Perfluorononanoic acid	4.00	3.714	93	53-157	
HFPO-DA	16.0	13.46	84	58-154	
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	40.0	39.81	100	56-151	
Perfluoropentanesulfonic acid	3.76	3.525	94	58-144	
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	15.2	13.22	87	48-158	
Perfluorononanesulfonic acid	3.85	3.438	89	46-151	
Perfluoroheptanoic acid	4.00	3.832	96	56-150	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	15.1	14.11	93	36-158	
Perfluorooctanesulfonic acid	3.71	3.474	94	43-162	
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	15.4	13.30	87	46-165	
Perfluoro-3-methoxypropanoic acid	8.00	6.176	77	48-150	
Perfluorobutanoic acid	16.0	14.31	89	44-157	
NEtFOSAA	4.00	3.955	99	51-154	
Perfluorododecanoic acid	4.00	3.554	89	60-141	
Perfluorohexanoic acid	4.00	3.571	89	62-149	
Perfluoro(4-methoxybutanoic acid)	8.00	7.197	90	49-154	
Perfluoro-3,6-dioxaheptanoic acid	8.00	6.713	84	47-160	
Perfluorododecanesulfonic acid (PFDoS)	3.88	2.797	72	30-138	
Perfluoropentanoic acid	8.00	7.167	90	57-148	I
5:3 FTCA	100	76.15	76	39-156	
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	40.0	39.59	99	60-147	
Perfluorooctanesulfonamide	4.00	3.954	99	47-163	
3:3 FTCA	20.0	18.08	90	32-161	
NMeFOSAA	4.00	3.842 J	96	32-160	
Perfluorobutanesulfonic acid	3.55	3.248	92	63-145	
Perfluoroheptanesulfonic acid	3.81	3.189	84	51-150	

Column to be used to flag recovery and RPD values

FORM III 1633

FORM III
PFAS MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 23AUG08-57.d

Lab ID: 460-282979-1 MS Client ID: AD38758-001 MS

COMPOUND	SPIKE ADDED (ng/L)	SAMPLE CONCENTRATION (ng/L)	MS CONCENTRATION (ng/L)	MS % REC	QC LIMITS REC	#
13C4 PFBA	188	171	172.1	91.6	10-130	
13C5 PFPeA	93.9	89.6	97.50	104	35-150	
13C5 PFHxA	47.0	46.9	48.99	104	55-150	
13C4 PFHpA	47.0	47.4	44.60	95.0	55-150	
13C8 PFOA	47.0	41.8	47.07	100	60-140	
13C9 PFNA	23.5	19.8	21.07	89.8	55-140	
13C6 PFDA	23.5	21.3	21.66	92.3	50-140	
13C7 PFUnA	23.5	21.9	22.43	95.5	30-140	
13C2-PFDoDA	23.5	20.5	22.08	94.0	10-150	
13C2 PFTeDA	23.5	17.8	20.79	88.6	10-130	
13C3 PFBS	43.8	48.6	44.09	101	55-150	
13C3 PFHxS	44.5	43.5	39.49	88.7	55-150	
13C8 PFOS	45.0	42.5	37.46	83.3	45-140	
13C8 FOSA	47.0	44.7	43.06	91.7	30-130	
d3-NMeFOSAA	93.9	82.6	80.66	85.9	45-200	
d5-NEtFOSAA	93.9	76.5	75.19	80.1	10-200	
M2-4:2 FTS	88.1	81.9	77.27	87.7	60-200	
M2-6:2 FTS	89.3	105	90.11	101	60-200	
M2-8:2 FTS	90.2	87.9	79.22	87.9	50-200	
13C3 HFPO-DA	188	170	182.1	96.9	25-160	
d7-N-MeFOSE-M	470	356	339.1	72.2	10-150	
d9-N-EtFOSE-M	470	352	341.1	72.6	10-150	
d5-NEtPFOSA	47.0	24.5	24.82	52.8	10-130	
d3-NMePFOSA	47.0	26.8	22.90	48.8	15-130	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	176	1.88 U	189.0	108	56-156	
Perfluorohexanesulfonic acid	43.0	1.07 U	42.64	99	57-146	
Perfluoroundecanoic acid	47.0	0.94 U	46.55	99	48-159	
Perfluorooctanoic acid	47.0	3.57 J	52.59	104	52-161	
Perfluorodecanesulfonic acid	45.4	0.94 U	48.22	106	51-147	
Perfluorotetradecanoic acid	47.0	0.94 U	46.63	99	47-161	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	177	2.83 U	167.0	94	68-146	
NMeFOSA	47.0	0.94 U	56.13	119	63-145	
7:3 FTCA	1180	18.8 U	1057	90	50-138	
Perfluorodecanoic acid	47.0	0.94 U	52.65	112	52-147	
Perfluorotridecanoic acid	47.0	0.94 U	46.14	98	49-148	
PFEESA	83.7	0.94 U	78.27	93	56-151	
N-ethylperfluoro-1-octanesulfonamide	47.0	0.94 U	52.39	111	65-139	
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	176	3.20 U	187.7	106	67-146	

Column to be used to flag recovery and RPD values

FORM III 1633

FORM III
PFAS MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 23AUG08-57.d

Lab ID: 460-282979-1 MS Client ID: AD38758-001 MS

COMPOUND	SPIKE ADDED (ng/L)	SAMPLE CONCENTRATION (ng/L)	MS CONCENTRATION (ng/L)	MS % REC	QC LIMITS REC	#
Perfluorononanoic acid	47.0	0.94 U	48.38	103	59-149	
HFPO-DA	188	3.77 U	178.5	95	63-144	
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	470	9.42 U	497.1	106	71-136	
Perfluoropentanesulfonic acid	44.3	0.94 U	46.10	104	59-151	
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	179	4.71 U	162.3	91	61-151	
Perfluorononanesulfonic acid	45.2	0.75 U	50.93	113	52-148	
Perfluoroheptanoic acid	47.0	1.27 J	47.01	97	54-154	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	177	3.77 U	171.3	96	46-156	
Perfluorooctanesulfonic acid	43.6	2.90 J	49.96	108	58-149	
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	181	4.90 U	212.9	118	63-152	
Perfluoro-3-methoxypropanoic acid	94.1	0.94 U	90.25	96	51-145	
Perfluorobutanoic acid	188	3.77 U	183.5	98	58-148	
NEtFOSAA	47.0	1.32 U	48.04	102	59-146	
Perfluorododecanoic acid	47.0	0.94 U	44.69	95	64-142	
Perfluorohexanoic acid	47.0	0.94 U	45.61	97	55-152	
Perfluoro(4-methoxybutanoic acid)	94.1	1.88 U	86.75	92	55-148	
Perfluoro-3,6-dioxaheptanoic acid	94.1	1.88 U	97.30	103	48-161	
Perfluorododecanesulfonic acid (PFDoS)	45.6	1.70 U	43.83	96	36-145	
Perfluoropentanoic acid	94.1	2.26 J	95.10	99	54-152	
5:3 FTCA	1180	18.8 U	1093	93	63-134	
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	470	9.42 U	470.8	100	69-137	
Perfluorooctanesulfonamide	47.0	0.94 U	46.65	99	61-148	
3:3 FTCA	235	2.83 U	207.5	88	62-129	
NMeFOSAA	47.0	2.26 U	46.16	98	58-144	
Perfluorobutanesulfonic acid	41.7	2.58 J	45.53	103	62-144	
Perfluoroheptanesulfonic acid	44.8	0.75 U	46.04	103	55-152	

Column to be used to flag recovery and RPD values

FORM III 1633

FORM III
PFAS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 23AUG08-58.d

Lab ID: 460-282979-1 MSD Client ID: AD38758-001 MSD

COMPOUND	SPIKE ADDED (ng/L)	MSD CONCENTRATION (ng/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
13C4 PFBA	183	162.7	88.7			10-130	
13C5 PFPeA	91.7	87.22	95.1			35-150	
13C5 PFHxA	45.9	43.68	95.3			55-150	
13C4 PFHpA	45.9	40.77	88.9			55-150	
13C8 PFOA	45.9	38.97	85.0			60-140	
13C9 PFNA	22.9	27.49	120			55-140	
13C6 PFDA	22.9	19.08	83.2			50-140	
13C7 PFUnA	22.9	20.33	88.7			30-140	
13C2-PFDoDA	22.9	18.71	81.6			10-150	
13C2 PFTeDA	22.9	18.18	79.3			10-130	
13C3 PFBS	42.7	46.02	108			55-150	
13C3 PFHxS	43.5	39.20	90.2			55-150	
13C8 PFOS	43.9	41.22	93.8			45-140	
13C8 FOSA	45.9	42.50	92.7			30-130	
d3-NMeFOSAA	91.7	78.86	86.0			45-200	
d5-NEtFOSAA	91.7	76.41	83.3			10-200	
M2-4:2 FTS	86.0	95.13	111			60-200	
M2-6:2 FTS	87.2	81.64	93.6			60-200	
M2-8:2 FTS	88.0	91.00	103			50-200	
13C3 HFPO-DA	183	161.6	88.1			25-160	
d7-N-MeFOSE-M	459	353.5	77.1			10-150	
d9-N-EtFOSE-M	459	350.9	76.5			10-150	
d5-NEtPFOSA	45.9	26.81	58.5			10-130	
d3-NMePFOSA	45.9	27.47	59.9			15-130	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	171	176.8	103	7	30	56-156	
Perfluorohexanesulfonic acid	42.0	42.27	101	1	30	57-146	
Perfluoroundecanoic acid	45.9	44.64	97	4	30	48-159	
Perfluorooctanoic acid	45.9	53.83	109	2	30	52-161	
Perfluorodecanesulfonic acid	44.3	43.30	98	11	30	51-147	
Perfluorotetradecanoic acid	45.9	45.56	99	2	30	47-161	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	173	157.4	91	6	30	68-146	
NMeFOSA	45.9	50.81	111	10	30	63-145	
7:3 FTCA	1150	1002	87	5	30	50-138	
Perfluorodecanoic acid	45.9	46.90	102	12	30	52-147	
Perfluorotridecanoic acid	45.9	45.97	100	0	30	49-148	
PFEESA	81.8	77.31	95	1	30	56-151	
N-ethylperfluoro-1-octanesulfonamide	45.9	52.18	114	0	30	65-139	
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	172	151.8	88	21	30	67-146	

Column to be used to flag recovery and RPD values

FORM III 1633

FORM III
PFAS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 23AUG08-58.d

Lab ID: 460-282979-1 MSD Client ID: AD38758-001 MSD

COMPOUND	SPIKE ADDED (ng/L)	MSD CONCENTRATION (ng/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Perfluorononanoic acid	45.9	41.08	89	16	30	59-149	
HFPO-DA	183	177.3	97	1	30	63-144	
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	459	473.7	103	5	30	71-136	
Perfluoropentanesulfonic acid	43.2	45.32	105	2	30	59-151	
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	175	169.9	97	5	30	61-151	
Perfluorononanesulfonic acid	44.2	47.68	108	7	30	52-148	
Perfluoroheptanoic acid	45.9	43.16	91	9	30	54-154	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	173	164.1	95	4	30	46-156	
Perfluorooctanesulfonic acid	42.6	45.29	99	10	30	58-149	
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	176	168.1	95	23	30	63-152	
Perfluoro-3-methoxypropanoic acid	91.9	87.34	95	3	30	51-145	
Perfluorobutanoic acid	184	185.1	101	1	30	58-148	
NEtFOSAA	45.9	44.21	96	8	30	59-146	
Perfluorododecanoic acid	45.9	47.68	104	6	30	64-142	
Perfluorohexanoic acid	45.9	44.26	96	3	30	55-152	
Perfluoro(4-methoxybutanoic acid)	91.9	87.80	96	1	30	55-148	
Perfluoro-3,6-dioxaheptanoic acid	91.9	89.46	97	8	30	48-161	
Perfluorododecanesulfonic acid (PFDoS)	44.6	39.39	88	11	30	36-145	
Perfluoropentanoic acid	91.9	88.64	94	7	30	54-152	
5:3 FTCA	1150	1069	93	2	30	63-134	
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	459	468.0	102	1	30	69-137	
Perfluorooctanesulfonamide	45.9	47.81	104	2	30	61-148	
3:3 FTCA	229	205.5	90	1	30	62-129	
NMeFOSAA	45.9	44.39	97	4	30	58-144	
Perfluorobutanesulfonic acid	40.7	38.94	89	16	30	62-144	
Perfluoroheptanesulfonic acid	43.8	43.03	98	7	30	55-152	

Column to be used to flag recovery and RPD values

FORM III 1633

FORM IV
PFAS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Lab File ID: 23AUG08-53.d Lab Sample ID: MB 410-397379/1-A

Matrix: Water Date Extracted: 07/17/2023 07:22

Instrument ID: 30729 Date Analyzed: 08/08/2023 21:52

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-397379/2-A	23AUG08-54.d	08/08/2023 22:06
	LLCS 410-397379/3-A	23AUG08-55.d	08/08/2023 22:19
AD38758-001	460-282979-1	23AUG08-56.d	08/08/2023 22:32
AD38758-001 MS	460-282979-1 MS	23AUG08-57.d	08/08/2023 22:45
AD38758-001 MSD	460-282979-1 MSD	23AUG08-58.d	08/08/2023 22:58
AD38758-004	460-282979-2	23AUG08-61.d	08/08/2023 23:37
AD38758-005	460-282979-3	23AUG08-62.d	08/08/2023 23:50

FORM VIII
PFAS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Instrument I 30729 Calibration Start Date: 08/05/2023 09:27

GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 08/05/2023 11:25

Calibration ID: 52413

		13C3PFBA		PFHxA		PFOA	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		722266	2.94	237559	3.75	23075	4.25
UPPER LIMIT		1444532	3.14	475118	3.95	46150	4.45
LOWER LIMIT		216680	2.74	71268	3.55	6923	4.05
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-404842/8		807188	2.94	231068	3.75	25023	4.25
ICV 410-404842/9		795548	2.93	254950	3.75	31444	4.25
CCVO 410-405691/1		796230	2.94	228596	3.76	24321	4.26
CCV 410-405691/35		821595	2.93	247681	3.75	26965	4.25
CCB 410-405691/36		849049	2.93	269404	3.75	25297	4.25
MB 410-397379/1-A		714208	2.92	236577	3.74	23123	4.24
LCS 410-397379/2-A		854043	2.93	273141	3.75	29402	4.25
LLCS 410-397379/3-A		1070930	2.93	353685	3.74	34569	4.24
460-282979-1	AD38758-001	878520	2.93	279303	3.76	27363	4.25
460-282979-1 MS	AD38758-001 MS	852788	2.93	262835	3.75	25409	4.24
460-282979-1 MSD	AD38758-001 MSD	890082	2.93	304028	3.75	28270	4.24
CCV 410-405691/54		798846	2.93	252395	3.75	29982	4.24
CCB 410-405691/55		821856	2.93	231514	3.75	25593	4.25
460-282979-2	AD38758-004	916236	2.93	296094	3.75	28258	4.24
460-282979-3	AD38758-005	887538	2.93	285483	3.75	31227	4.25
CCV 410-405691/66		816748	2.93	252934	3.75	26582	4.24
CCB 410-405691/67		814970	2.92	250714	3.74	28979	4.24

13C3PFBA = 13C3-PFBA
PFHxA = 13C2 PFHxA
PFOA = 13C4 PFOA

Area Limit = 30%-200% of internal standard area
RT Limit = ± 0.2 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
PFAS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Instrument I 30729 Calibration Start Date: 08/05/2023 09:27

GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 08/05/2023 11:25

Calibration ID: 52413

		PFHxS		PFNA		PFDA	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		403650	4.40	131442	4.48	180267	4.77
UPPER LIMIT		807300	4.60	262884	4.68	360534	4.97
LOWER LIMIT		121095	4.20	39433	4.28	54080	4.57
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-404842/8		439876	4.39	149368	4.49	191069	4.77
ICV 410-404842/9		434435	4.40	150644	4.48	191544	4.77
CCVO 410-405691/1		429136	4.41	135480	4.50	176375	4.79
CCV 410-405691/35		468715	4.39	149766	4.48	199898	4.77
CCB 410-405691/36		481389	4.39	145925	4.47	211381	4.76
MB 410-397379/1-A		396138	4.39	141284	4.47	186086	4.76
LCS 410-397379/2-A		457106	4.39	145762	4.47	220031	4.76
LLCS 410-397379/3-A		602100	4.39	191497	4.48	254974	4.75
460-282979-1	AD38758-001	460345	4.40	155342	4.49	215145	4.76
460-282979-1 MS	AD38758-001 MS	469865	4.39	159034	4.47	205008	4.76
460-282979-1 MSD	AD38758-001 MSD	471422	4.39	143181	4.47	228223	4.76
CCV 410-405691/54		443513	4.39	151145	4.48	190365	4.75
CCB 410-405691/55		422476	4.39	156802	4.49	194024	4.76
460-282979-2	AD38758-004	506322	4.39	176982	4.47	222759	4.76
460-282979-3	AD38758-005	465583	4.39	152696	4.48	207447	4.76
CCV 410-405691/66		478942	4.39	146451	4.47	194387	4.76
CCB 410-405691/67		429407	4.39	136089	4.47	185598	4.76

PFHxS = 18O2 PFHxS
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA

Area Limit = 30%-200% of internal standard area
RT Limit = ± 0.2 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
PFAS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Instrument I 30729 Calibration Start Date: 08/05/2023 09:27

GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 08/05/2023 11:25

Calibration ID: 52413

		PFOS					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		260496	5.02				
UPPER LIMIT		520992	5.22				
LOWER LIMIT		78149	4.82				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-404842/8		274104	5.02				
ICV 410-404842/9		269040	5.01				
CCVO 410-405691/1		255819	5.04				
CCV 410-405691/35		279579	5.01				
CCB 410-405691/36		308437	5.01				
MB 410-397379/1-A		261294	5.00				
LCS 410-397379/2-A		308763	5.00				
LLCS 410-397379/3-A		409361	5.00				
460-282979-1	AD38758-001	314314	5.02				
460-282979-1 MS	AD38758-001 MS	320311	5.00				
460-282979-1 MSD	AD38758-001 MSD	309569	5.00				
CCV 410-405691/54		281791	5.01				
CCB 410-405691/55		286494	5.01				
460-282979-2	AD38758-004	357836	5.01				
460-282979-3	AD38758-005	322047	5.02				
CCV 410-405691/66		290439	5.01				
CCB 410-405691/67		291974	5.00				

PFOS = 13C4 PFOS

Area Limit = 30%-200% of internal standard area
RT Limit = ± 0.2 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: AD38758-001 Lab Sample ID: 460-282979-1

Matrix: Water Lab File ID: 23AUG08-56.d

Analysis Method: 1633 Date Collected: 06/22/2023 13:22

Extraction Method: 1633 Date Extracted: 07/17/2023 07:22

Sample wt/vol: 265.4(mL) Date Analyzed: 08/08/2023 22:32

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.88	U	15.1	1.88
355-46-4	Perfluorohexanesulfonic acid	1.07	U	3.77	1.07
2058-94-8	Perfluoroundecanoic acid	0.94	U	3.77	0.94
335-67-1	Perfluorooctanoic acid	3.57	J	3.77	1.21
335-77-3	Perfluorodecanesulfonic acid	0.94	U	3.77	0.94
376-06-7	Perfluorotetradecanoic acid	0.94	U	3.77	0.94
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.83	U	15.1	2.83
31506-32-8	NMeFOSA	0.94	U	3.77	0.94
812-70-4	7:3 FTCA	18.8	U	94.2	18.8
335-76-2	Perfluorodecanoic acid	0.94	U	3.77	0.94
72629-94-8	Perfluorotridecanoic acid	0.94	U	3.77	0.94
113507-82-7	PFEESA	0.94	U	7.54	0.94
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	0.94	U	3.77	0.94
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	3.20	U	15.1	3.20
375-95-1	Perfluorononanoic acid	0.94	U	3.77	0.94
13252-13-6	HFPO-DA	3.77	U	15.1	3.77
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	9.42	U	37.7	9.42
2706-91-4	Perfluoropentanesulfonic acid	0.94	U	3.77	0.94
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	4.71	U	15.1	4.71
68259-12-1	Perfluorononanesulfonic acid	0.75	U	3.77	0.75
375-85-9	Perfluoroheptanoic acid	1.27	J	3.77	0.98
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	3.77	U	15.1	3.77
1763-23-1	Perfluorooctanesulfonic acid	2.90	J	3.77	0.94
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	4.90	U	15.1	4.90
377-73-1	Perfluoro-3-methoxypropanoic acid	0.94	U	7.54	0.94
375-22-4	Perfluorobutanoic acid	3.77	U	15.1	3.77
2991-50-6	NEtFOSAA	1.32	U	3.77	1.32

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: AD38758-001 Lab Sample ID: 460-282979-1

Matrix: Water Lab File ID: 23AUG08-56.d

Analysis Method: 1633 Date Collected: 06/22/2023 13:22

Extraction Method: 1633 Date Extracted: 07/17/2023 07:22

Sample wt/vol: 265.4(mL) Date Analyzed: 08/08/2023 22:32

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-55-1	Perfluorododecanoic acid	0.94	U	3.77	0.94
307-24-4	Perfluorohexanoic acid	0.94	U	3.77	0.94
863090-89-5	Perfluoro(4-methoxybutanoic acid)	1.88	U	7.54	1.88
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	1.88	U	7.54	1.88
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1.70	U	3.77	1.70
2706-90-3	Perfluoropentanoic acid	2.26	J I	7.54	1.88
914637-49-3	5:3 FTCA	18.8	U	94.2	18.8
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	9.42	U	37.7	9.42
754-91-6	Perfluorooctanesulfonamide	0.94	U	3.77	0.94
356-02-5	3:3 FTCA	2.83	U	18.8	2.83
2355-31-9	NMeFOSAA	2.26	U	7.54	2.26
375-73-5	Perfluorobutanesulfonic acid	2.58	J	3.77	0.57
375-92-8	Perfluoroheptanesulfonic acid	0.75	U	3.77	0.75

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: AD38758-001 Lab Sample ID: 460-282979-1

Matrix: Water Lab File ID: 23AUG08-56.d

Analysis Method: 1633 Date Collected: 06/22/2023 13:22

Extraction Method: 1633 Date Extracted: 07/17/2023 07:22

Sample wt/vol: 265.4(mL) Date Analyzed: 08/08/2023 22:32

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	90.8		10-130
STL01893	13C5 PFPeA	95.1		35-150
STL02577	13C5 PFHxA	99.7		55-150
STL01892	13C4 PFHpA	101		55-150
STL01052	13C8 PFOA	88.8		60-140
STL02578	13C9 PFNA	84.1		55-140
STL02579	13C6 PFDA	90.6		50-140
STL02580	13C7 PFUnA	92.9		30-140
STL02703	13C2-PFDoDA	87.1		10-150
STL02116	13C2 PFTeDA	75.6		10-130
STL02337	13C3 PFBS	111		55-150
STL02581	13C3 PFHxS	97.5		55-150
STL01054	13C8 PFOS	94.1		45-140
STL01056	13C8 FOSA	94.8		30-130
STL02118	d3-NMeFOSAA	87.7		45-200
STL02117	d5-NEtFOSAA	81.2		10-200
STL02395	M2-4:2 FTS	92.7		60-200
STL02279	M2-6:2 FTS	118	I	60-200
STL02280	M2-8:2 FTS	97.2		50-200
STL02255	13C3 HFPO-DA	90.2		25-160
STL02277	d7-N-MeFOSE-M	75.6		10-150
STL02278	d9-N-EtFOSE-M	74.7		10-150
STL02704	d5-NEtPFOSA	52.0		10-130
STL02705	d3-NMePFOSA	57.0		15-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-56.d
Lims ID: 460-282979-A-1-A
Client ID: AD38758-001
Sample Type: Client
Inject. Date: 08-Aug-2023 22:32:10 ALS Bottle#: 41 Worklist Smp#: 51
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 460-282979-A-1-A
Misc. Info.: Plate: 1 Rack: 1 410-0090889-051
Operator ID: US19_USR_INS20263 Instrument ID: 30729

Method: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\PFAS_30729_1633.m
Limit Group: LC - 1633 ICAL
Last Update: 09-Aug-2023 10:57:07 Calib Date: 05-Aug-2023 11:25:28
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-11.d

Column 1 : Det: EXP1
Process Host: CTX1649

First Level Reviewer: QY4X Date: 09-Aug-2023 10:56:38
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4-PFBA										
216.80 > 171.90	2.934	2.932	0.002	1.000	1294642	9.08		90.8	76456	
* 3 13C3PFBA										
216.00 > 172.00	2.934	2.932	0.002		878520	5.00			1767	
1 PFBA										
212.80 > 168.90	2.934	2.942	-0.008	1.000	14827	0.1371			86.4	
D 7 13C5 PFPeA										
268.30 > 223.00	3.447	3.444	0.003	0.918	381719	4.76		95.1	23891	
6 PFPA										RMa
263.00 > 219.00	3.447	3.447	0.0	1.000	16557	0.1198	Target=1273.32		210	Ra
263.00 > 68.90	3.458	3.447	0.011	1.003	100		165.57(636.66-1909.99)		10.0	M
D 10 13C2-4:2FTS										
329.10 > 80.90	3.631	3.638	-0.007	0.826	62001	4.35	Target=0.35	92.7	2398	
329.10 > 309.00	3.631	3.638	-0.007	0.826	166681		0.37(0.18-0.53)	92.7	7696	
D 14 13C5 PFHxA										
318.00 > 273.00	3.755	3.750	0.005	1.000	48663	2.49	Target=15.34	99.7	3001	
318.00 > 120.30	3.745	3.750	-0.005	0.997	2980		16.33(7.67-23.01)	99.7	216	
* 15 13C2 PFHxA										
315.10 > 270.00	3.755	3.750	0.005		279303	2.50	Target=103.53		17745	
315.10 > 119.40	3.745	3.750	-0.005		2043		136.71(51.76-155.29)		140	
D 18 13C3 PFBS										
302.10 > 79.90	3.861	3.856	0.005	0.878	519631	2.58	Target=6.99	111	32559	
302.10 > 98.90	3.849	3.856	-0.007	0.876	75328		6.90(3.50-10.49)	111	4642	
17 PFBS										
298.70 > 79.90	3.861	3.860	0.001	1.000	18501	0.1372	Target=3.41		656	
298.70 > 98.80	3.849	3.860	-0.011	0.997	5430		3.41(1.70-5.11)		376	
21 TCDCA										
498.10 > 80.00	3.895	3.867	0.028	0.776	230	0.001307			170	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 20 13C3 HFPO-DA										
286.90 > 168.90	3.872	3.867	0.005	1.031	1112041	9.02	Target=29.00	90.2	67321	
286.90 > 184.90	3.861	3.867	-0.006	1.028	35250		31.55(14.50-43.50)	90.2	2213	
D 25 13C4 PFHpA										
367.10 > 322.00	4.012	4.018	-0.006	1.068	589090	2.52		101	36585	
24 PFHpA										
363.10 > 319.00	4.012	4.022	-0.010	1.000	14943	0.0672	Target=3.62		345	
363.10 > 169.00	4.002	4.022	-0.020	0.997	3472		4.30(1.81-5.44)		240	
D 29 13C2-6:2FTS										R
429.10 > 80.90	4.122	4.129	-0.007	0.938	41204	5.59	Target=0.12	118	2578	R
429.10 > 409.00	4.111	4.129	-0.018	0.935	207201		0.20(0.06-0.18)	118	12418	
32 PFOA										M
413.00 > 369.00	4.254	4.250	0.004	1.000	21645	0.1897	Target=2.36		15.3	M
413.00 > 169.00	4.243	4.250	-0.007	0.998	13498		1.60(1.18-3.53)		32.4	
* 30 13C4 PFOA										
417.10 > 172.00	4.254	4.261	-0.007		27363	2.50			1796	
D 31 13C8 PFOA										
421.10 > 376.00	4.254	4.261	-0.007	1.000	577500	2.22		88.8	35575	
* 35 18O2 PFHxS										
403.00 > 83.90	4.395	4.401	-0.006		460345	2.37			31169	
D 36 13C3 PFHxS										
402.10 > 79.90	4.405	4.411	-0.006	1.002	505673	2.31	Target=3.90	97.5	33782	
402.10 > 98.80	4.395	4.411	-0.016	1.000	115015		4.40(1.95-5.85)	97.5	7972	
D 38 13C9 PFNA										
472.10 > 427.00	4.486	4.493	-0.007	1.000	137894	1.05		84.1	8971	
* 37 13C5 PFNA										
468.00 > 423.00	4.486	4.493	-0.007		155342	1.25			10151	
D 41 13C2-8:2FTS										
529.10 > 80.90	4.605	4.601	0.004	1.048	18346	4.67	Target=0.14	97.2	1277	
529.10 > 509.00	4.595	4.601	-0.006	1.045	120559		0.15(0.07-0.21)	97.2	6092	
D 44 d3-NMeFOSAA										
573.20 > 419.00	4.716	4.723	-0.007	0.940	286260	4.39		87.7	18911	
* 46 13C2 PFDA										
515.10 > 470.10	4.763	4.778	-0.015		215145	1.25			14457	
D 47 13C6 PFDA										
519.10 > 474.10	4.763	4.778	-0.015	1.000	196541	1.13		90.6	10069	
D 49 d5-NEtFOSAA										
589.20 > 419.00	4.869	4.874	-0.005	0.970	246516	4.06		81.2	16710	
* 52 13C4 PFOS										
502.80 > 79.90	5.018	5.033	-0.015		314314	2.40	Target=4.18		12651	
502.80 > 98.90	5.008	5.033	-0.025		87787		3.58(2.09-6.27)		6136	
D 51 13C8 PFOS										
507.10 > 79.90	5.018	5.033	-0.015	1.000	421303	2.25	Target=3.96	94.1	27896	
507.10 > 98.90	5.008	5.033	-0.025	0.998	99848		4.22(1.98-5.94)	94.1	6835	
50 PFOS										M
498.90 > 79.90	4.878	5.044	-0.166	0.972	24907	0.1537	Target=4.55		32.2	M
498.90 > 98.80	5.008	5.044	-0.036	0.998	5332		4.67(2.28-6.83)		33.1	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 54 13C7 PFUnA										
570.00 > 525.10	5.147	5.170	-0.023	1.081	185387	1.16		92.9	12479	
D 58 PFDoDA										
615.10 > 570.00	5.620	5.646	-0.026	1.180	154147	1.09		87.1	11246	
D 59 13C8 FOSA										
506.10 > 77.80	5.917	5.923	-0.006	1.179	649315	2.37		94.8	44393	
D 65 13C2 PFTeDA										
715.20 > 670.00	6.459	6.485	-0.026	1.356	75404	0.9455		75.6	4983	
D 67 d7-N-Me-FOSE										
623.20 > 58.90	6.694	6.692	0.002	1.334	851614	18.9		75.6	27976	
D 69 d3-NMePFOSA										
515.00 > 219.00	6.825	6.823	0.002	1.360	76577	1.42		57.0	4265	
D 71 d9-N-EtFOSE										
639.20 > 58.90	6.969	6.957	0.012	1.389	1033544	18.7		74.7	31297	
D 73 d5-NEtPFOSA										
531.10 > 219.00	7.082	7.080	0.002	1.411	74930	1.30		52.0	3739	

QC Flag Legend

Processing Flags
R - Failed Signal Ratio Test
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

PFC_ST_02214 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 09-Aug-2023 10:57:20 Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-56.d

Injection Date: 08-Aug-2023 22:32:10 Instrument ID: 30729

Lims ID: 460-282979-A-1-A Lab Sample ID: 410-282979-1

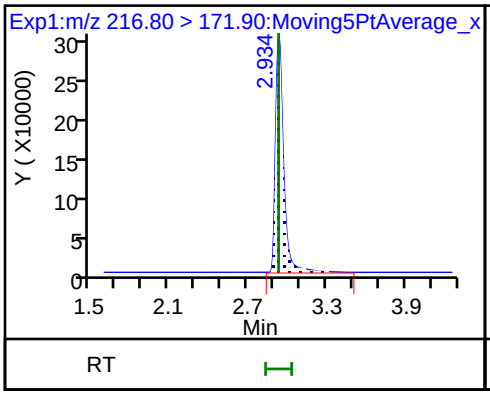
Client ID: AD38758-001

Operator ID: US19_USR_INS20263 ALS Bottle#: 41 Worklist Smp#: 51

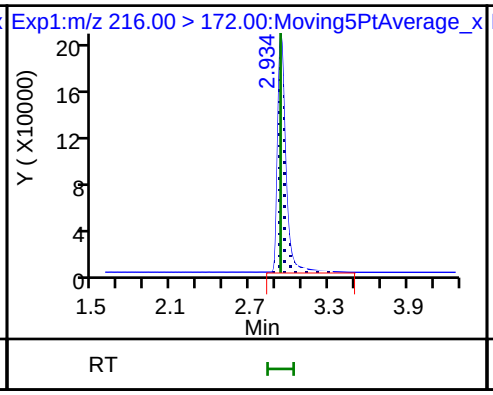
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: PFAS_30729_1633 Limit Group: LC - 1633 ICAL

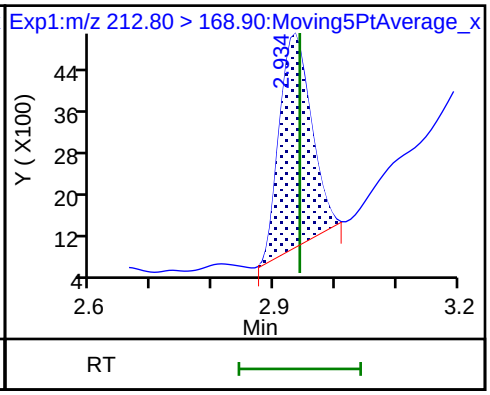
D 2 13C4-PFBA



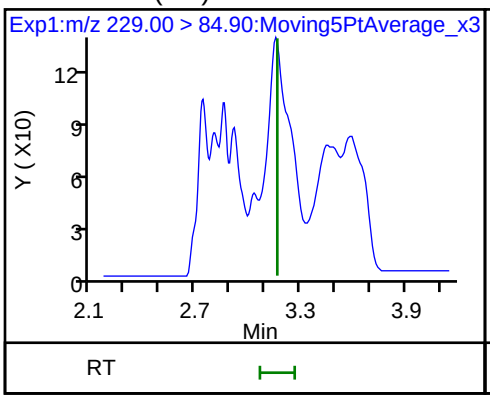
* 3 13C3PFBA



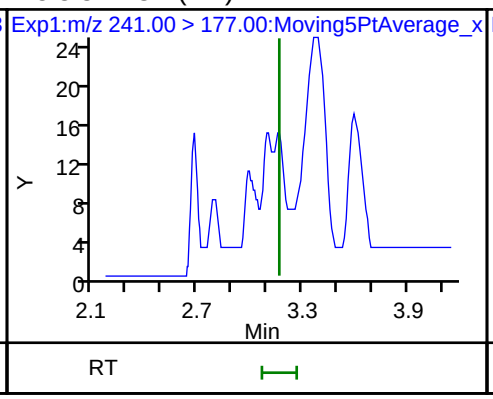
1 PFBA



4 PFMPA (ND)



5 3:3 FTCA (ND)



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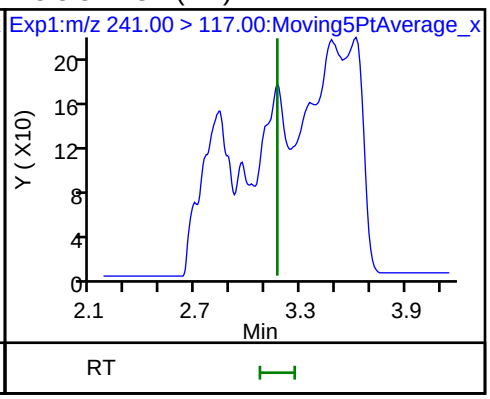
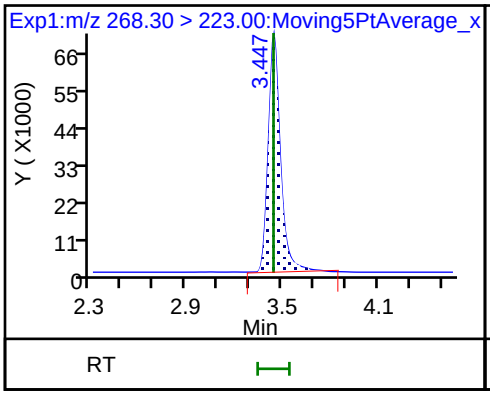


D 7 13C5 PFPeA



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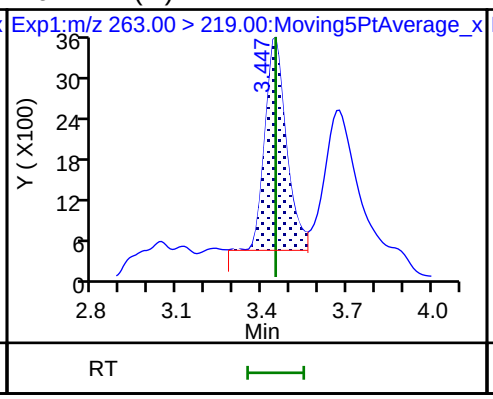

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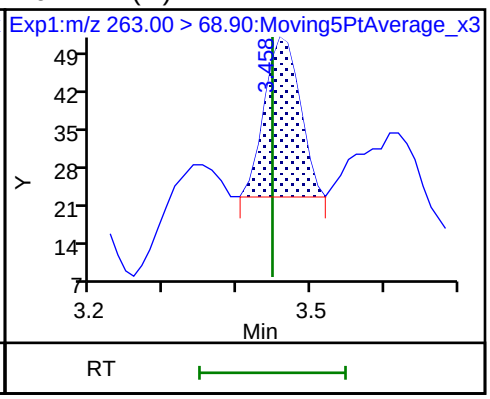

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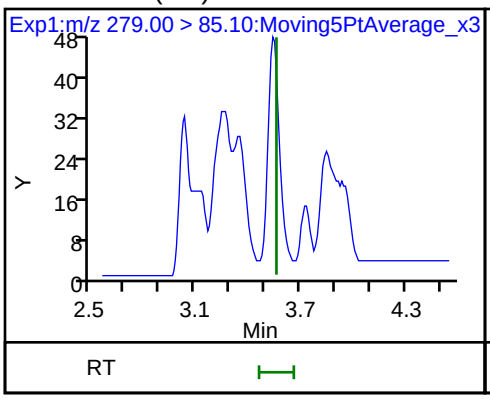

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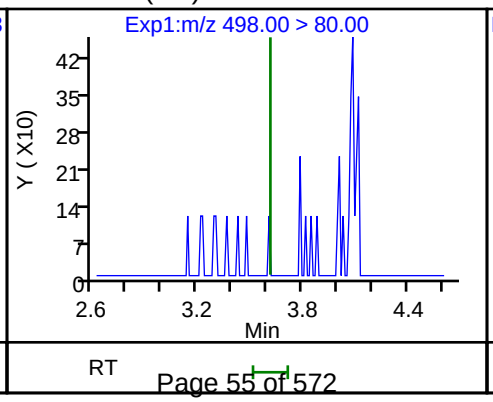
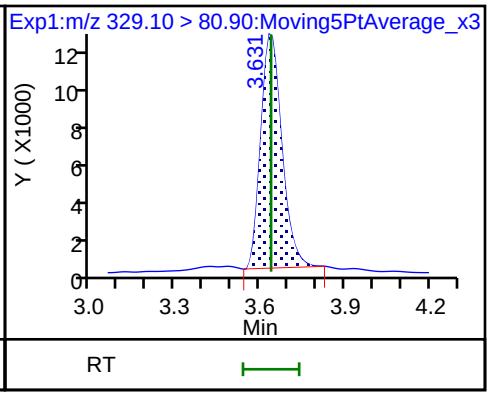


D 10 13C2-4:2FTS



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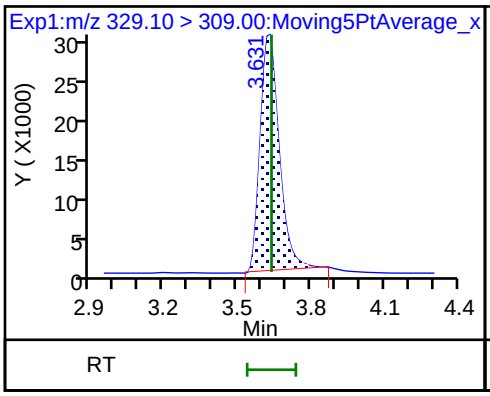

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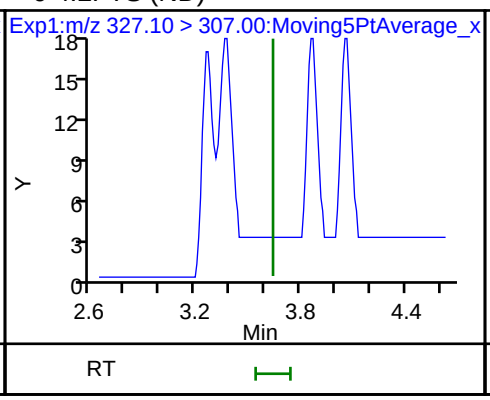

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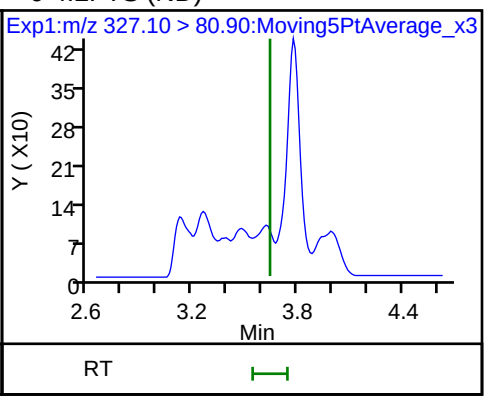

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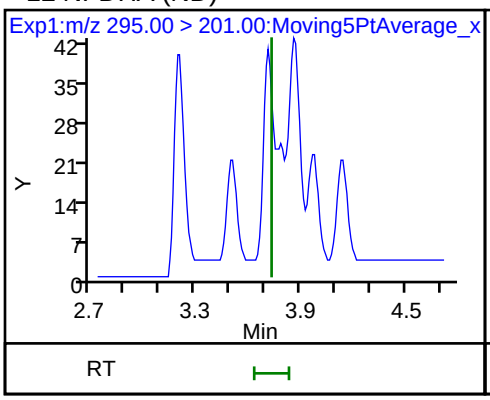

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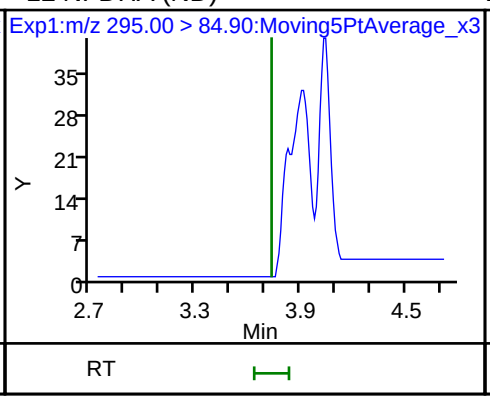

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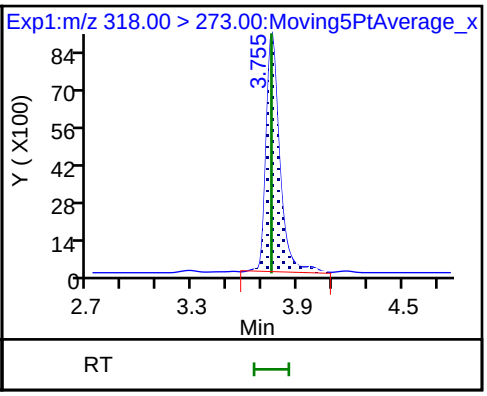

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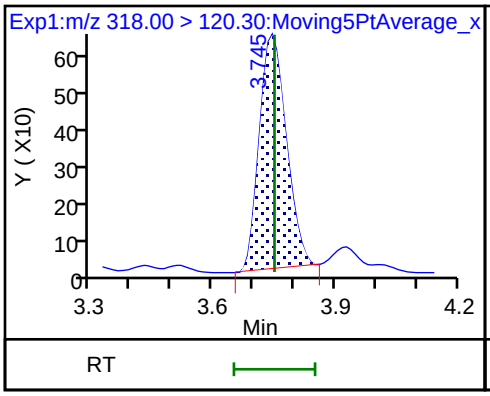

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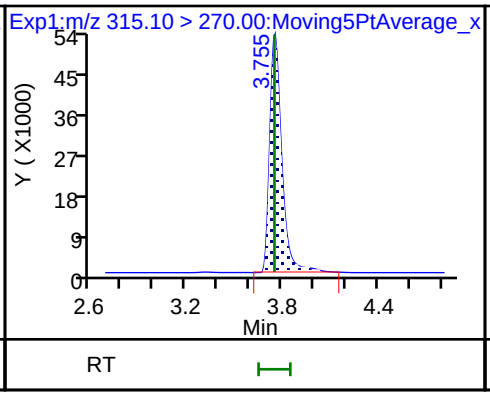

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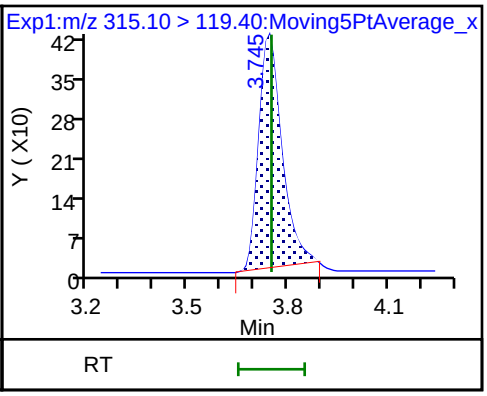

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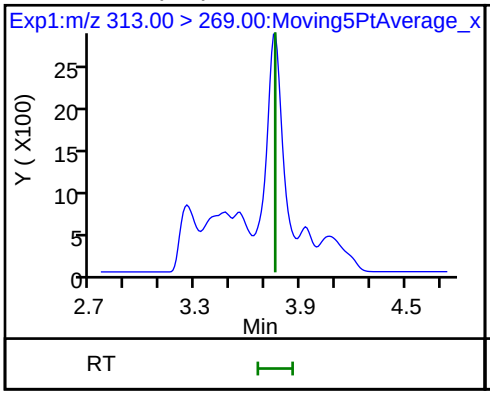

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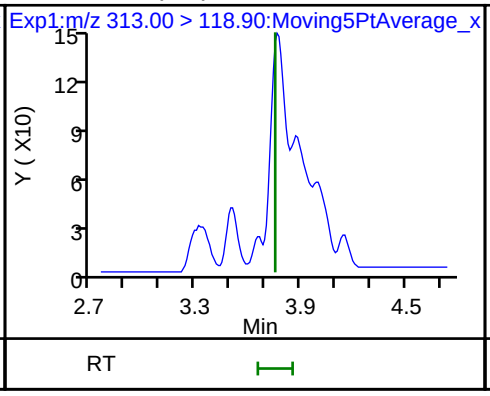
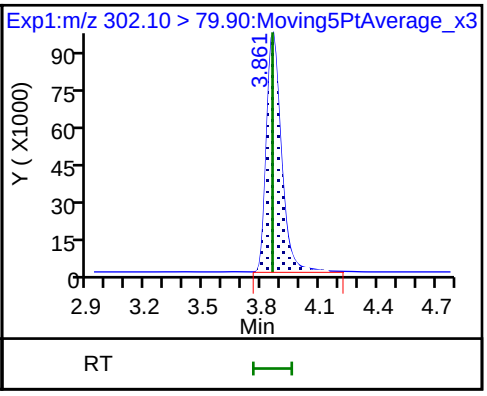


D 18 13C3 PFBS



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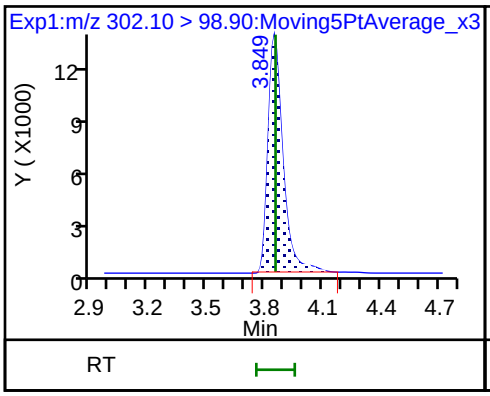

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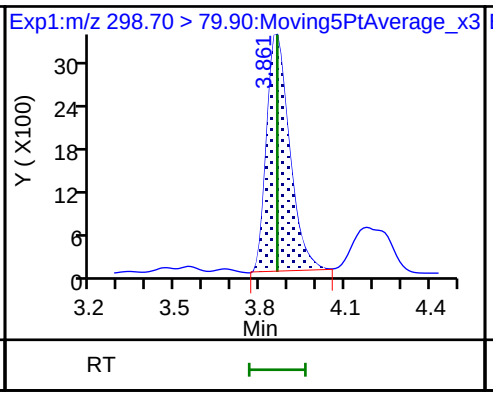

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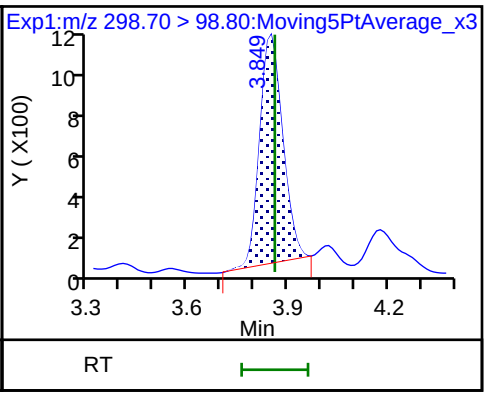

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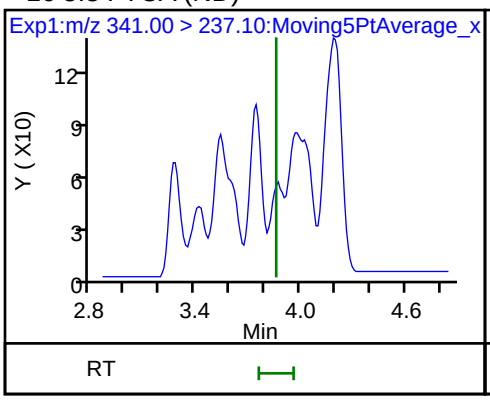

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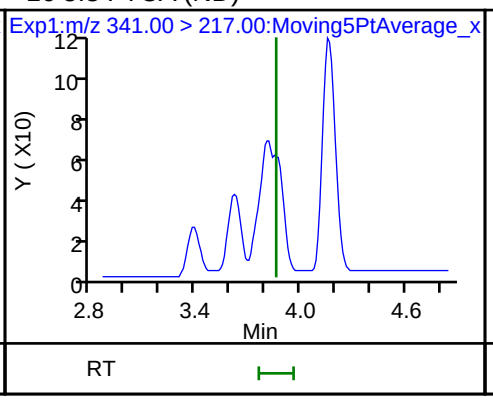
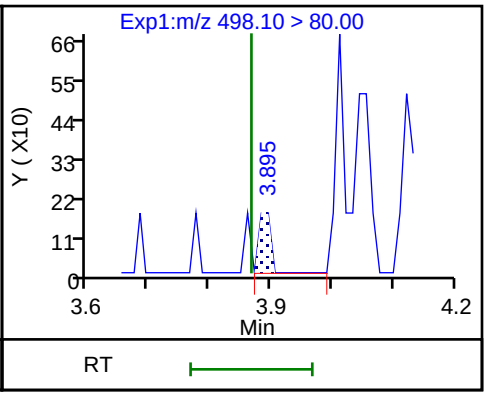


21 TCDCA



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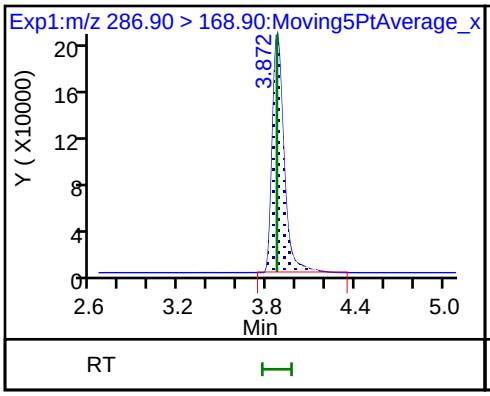

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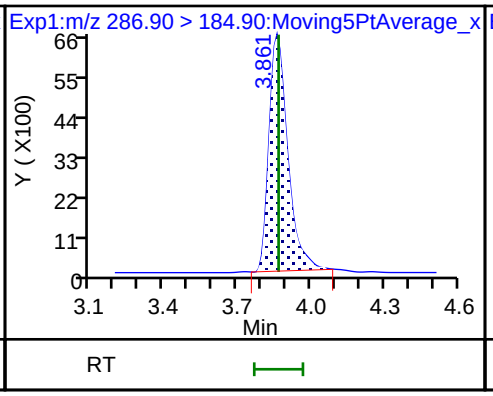

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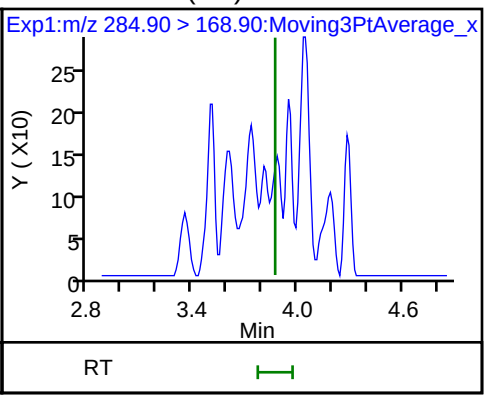

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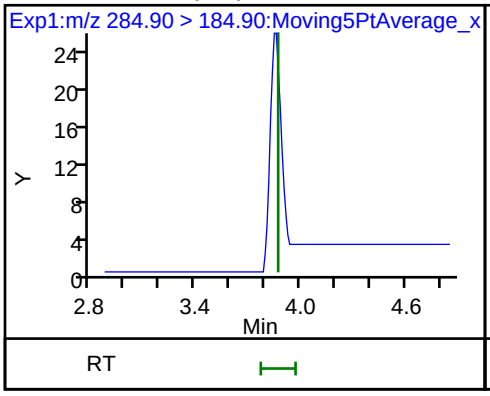

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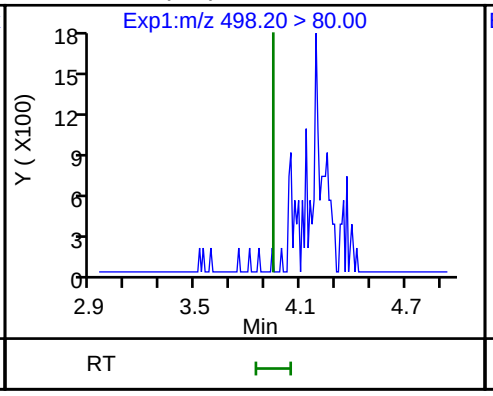

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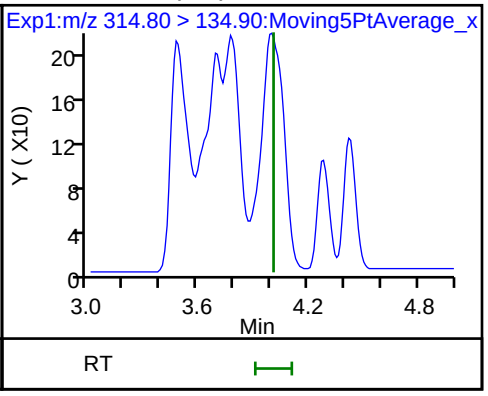

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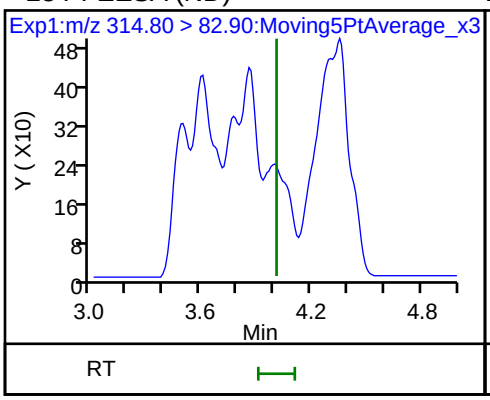
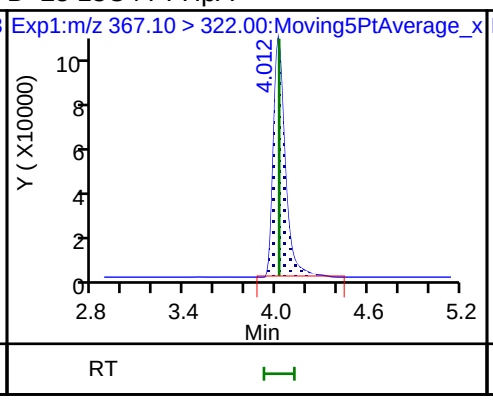


D 25 13C4 PFHpA



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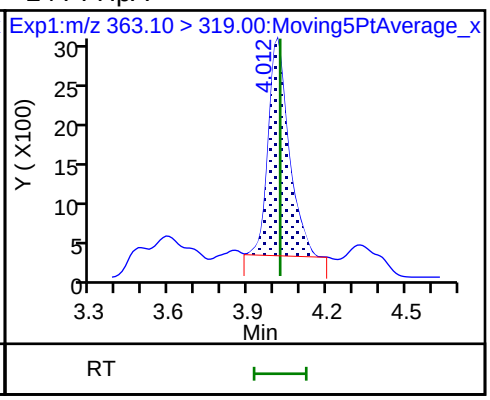

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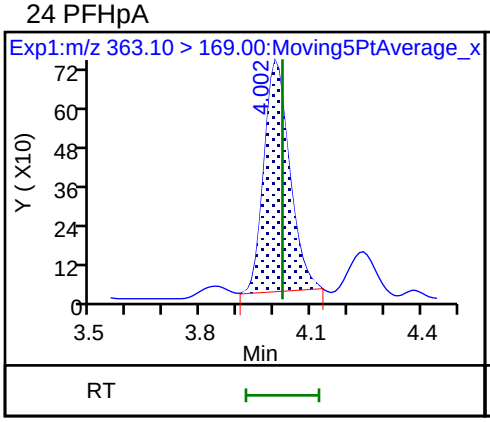

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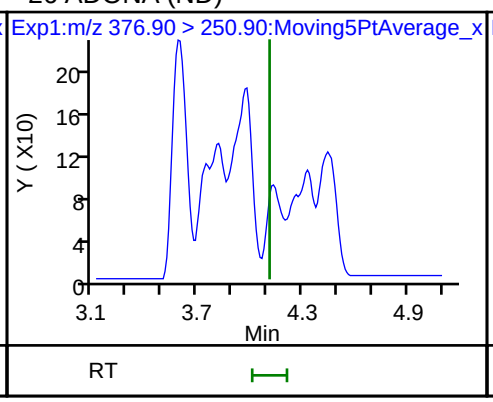

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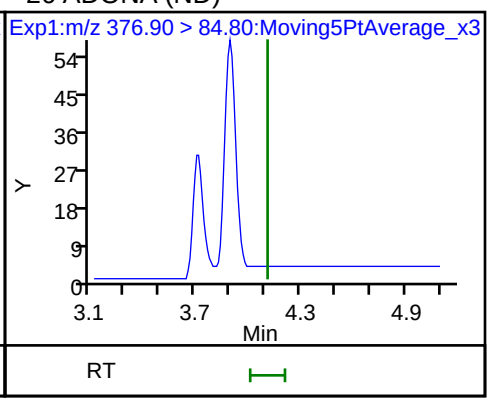

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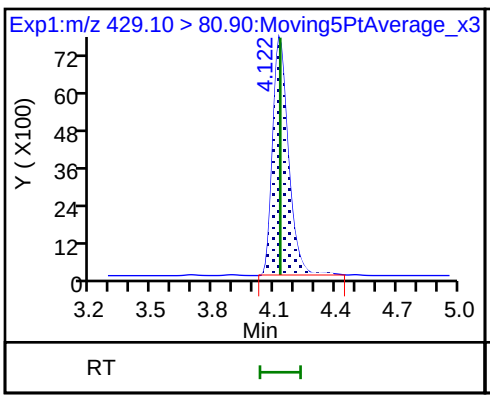

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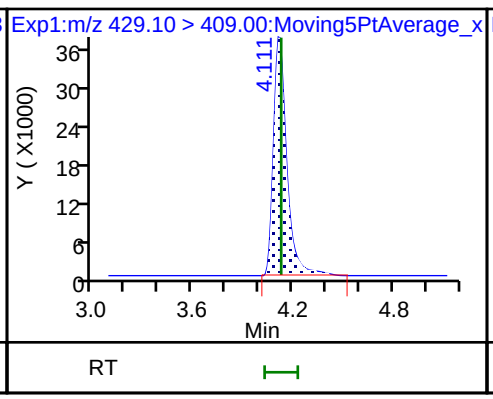

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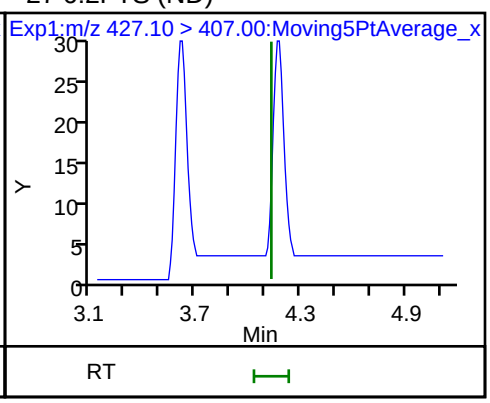

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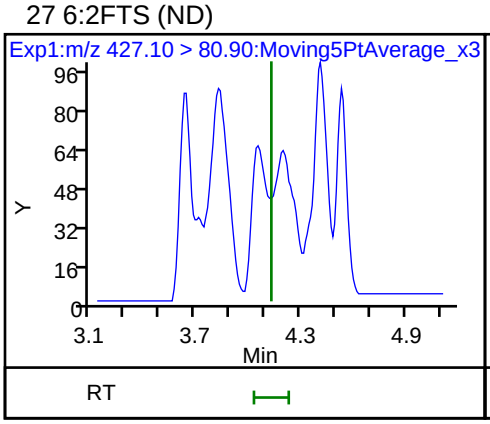

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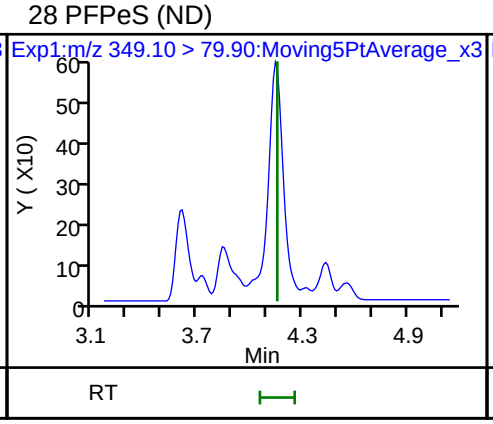

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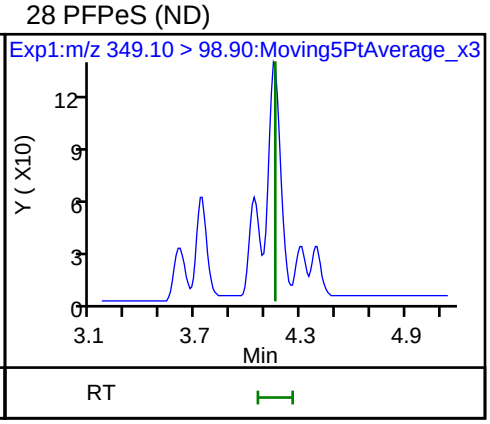

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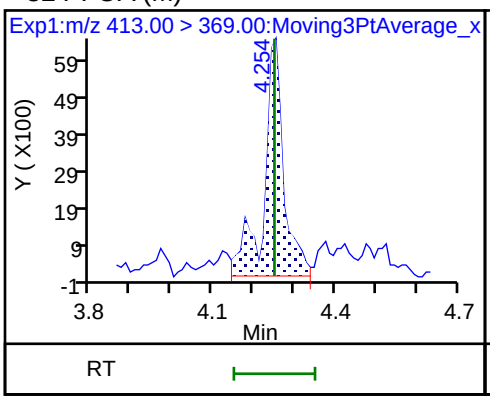
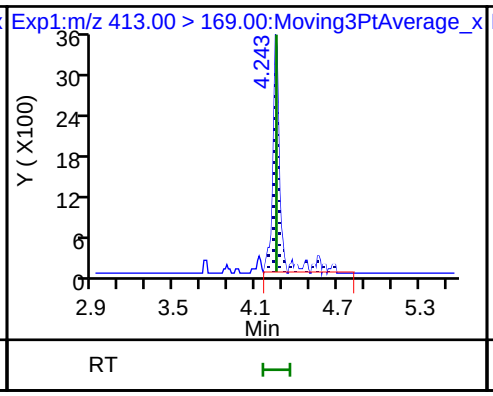
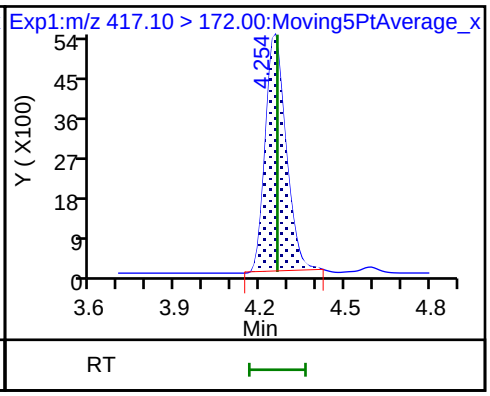


32 PFOA



* 30 13C4 PFOA



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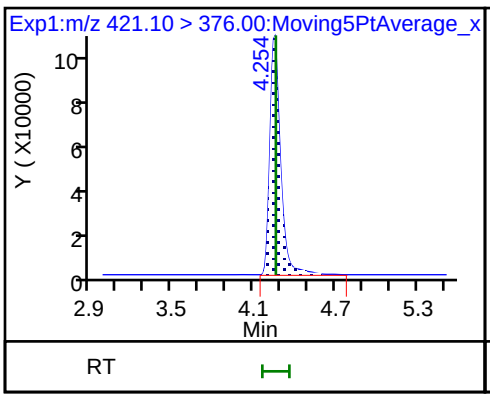

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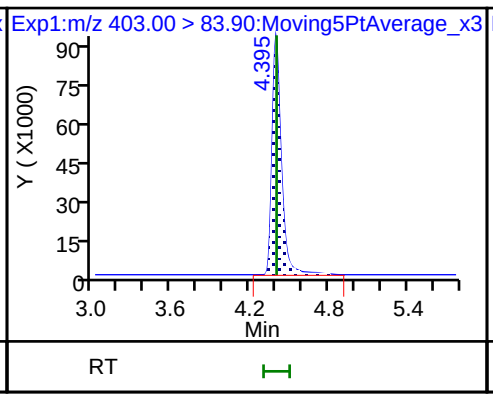

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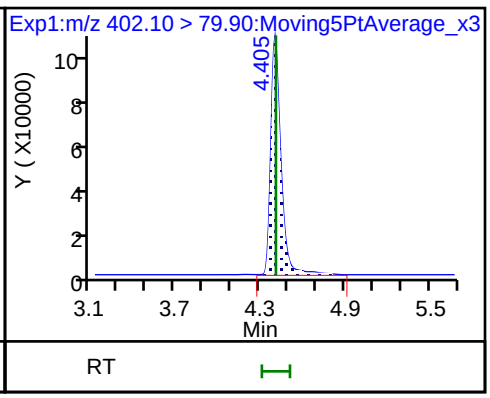

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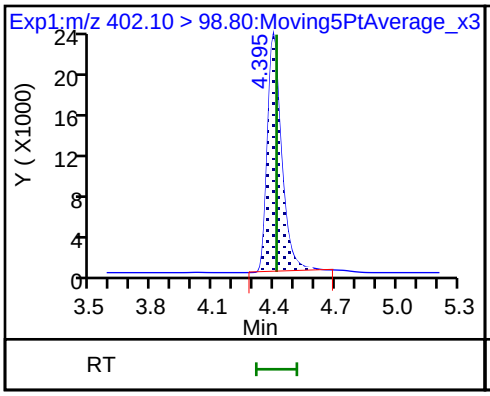

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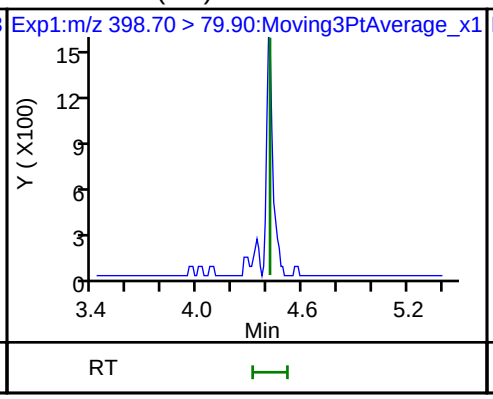

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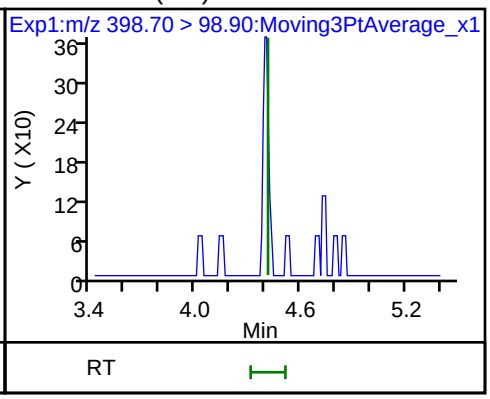

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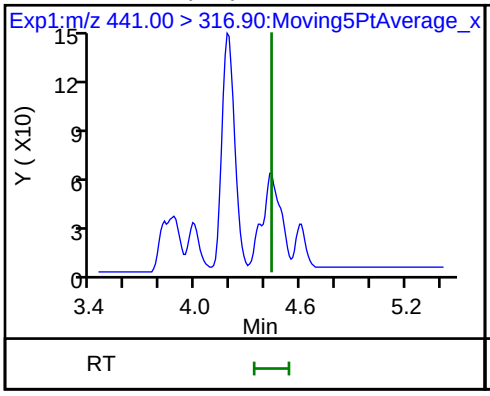

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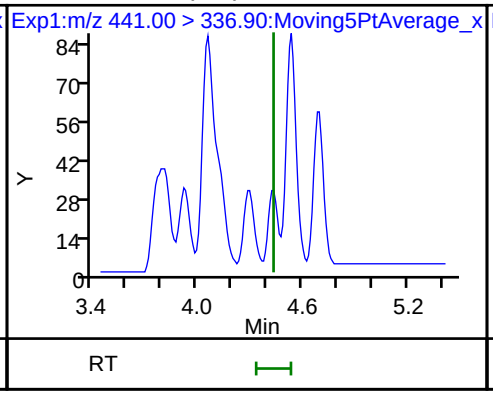

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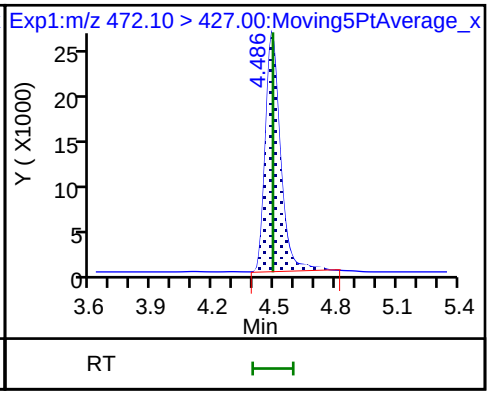

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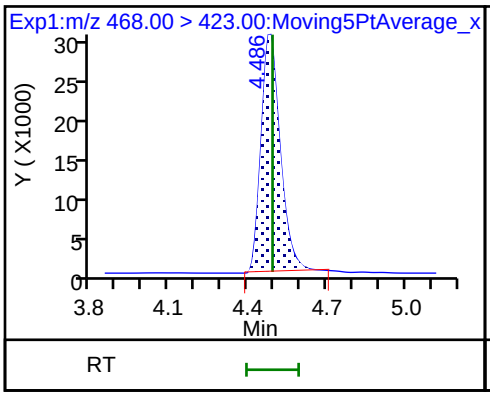

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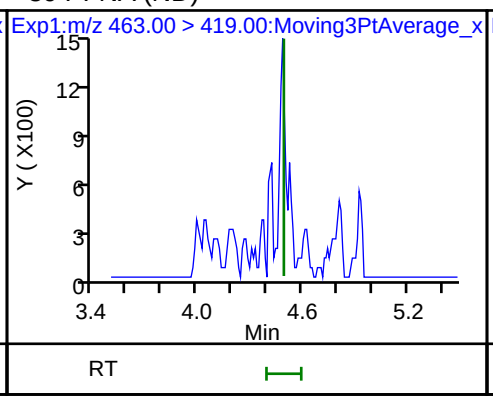

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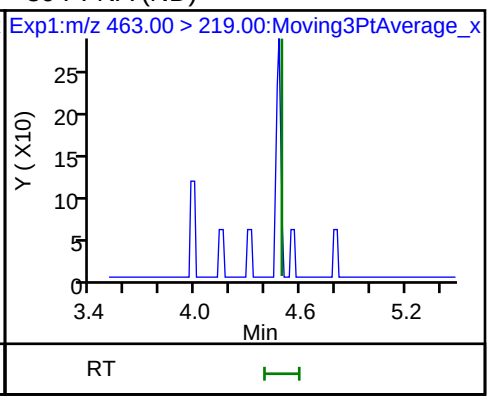
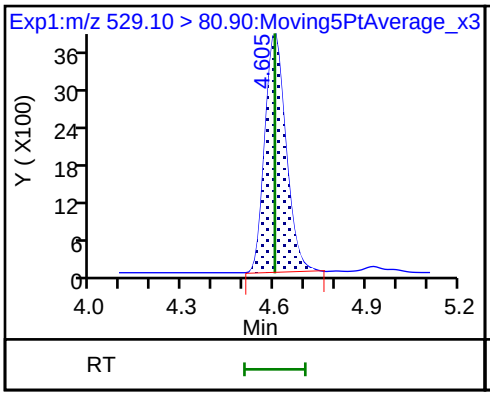


D 41 13C2-8:2FTS



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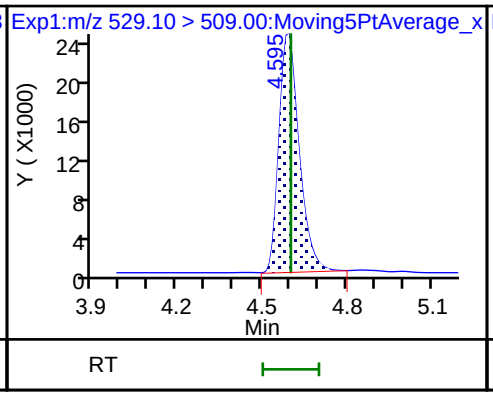

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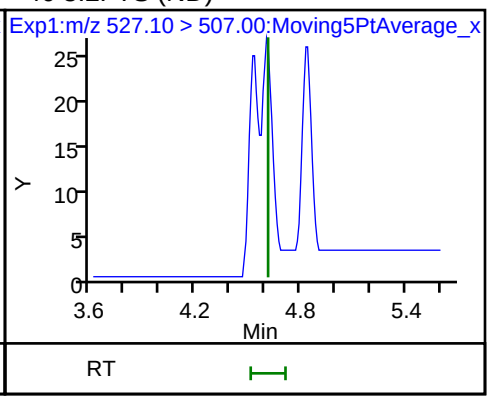

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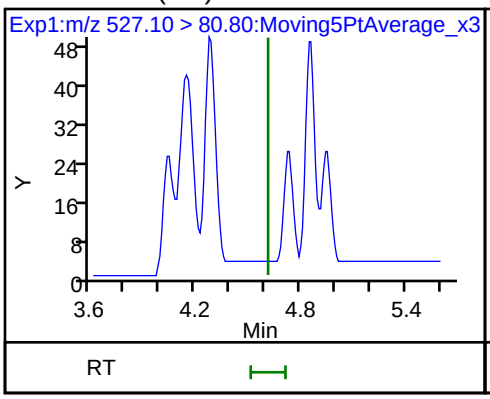

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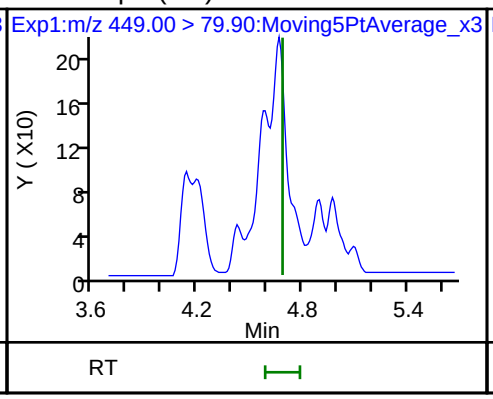

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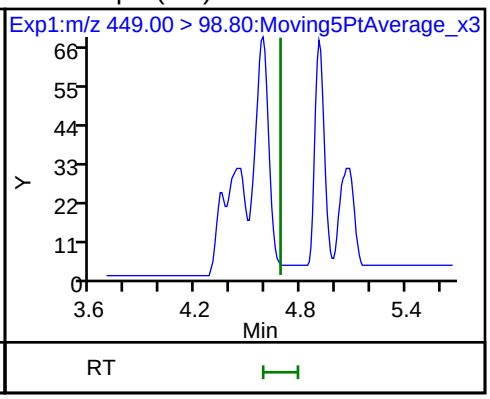
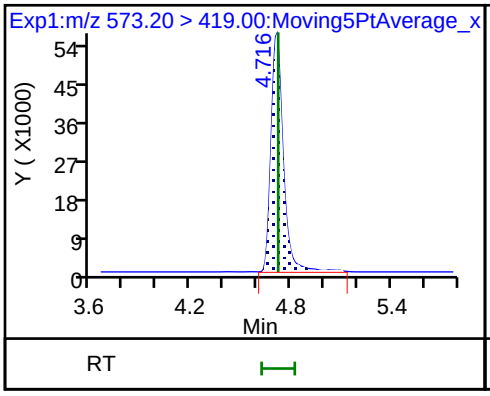


D 44 d3-NMeFOSAA



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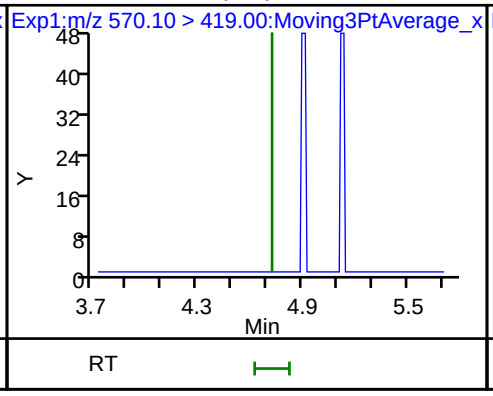

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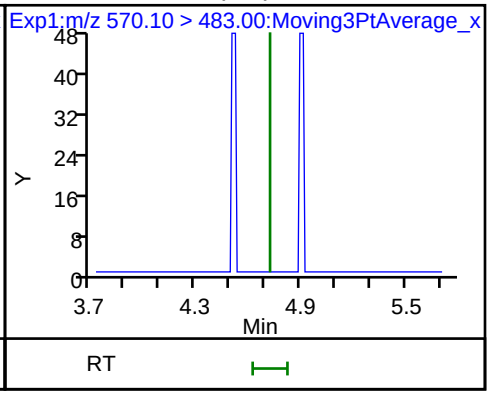
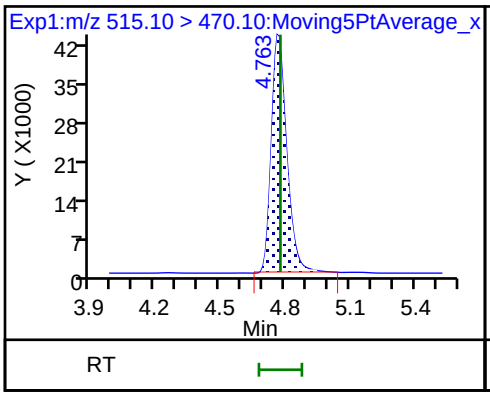
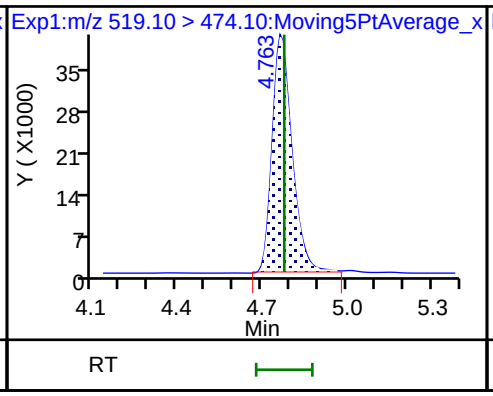


* 46 13C2 PFDA



D 47 13C6 PFDA



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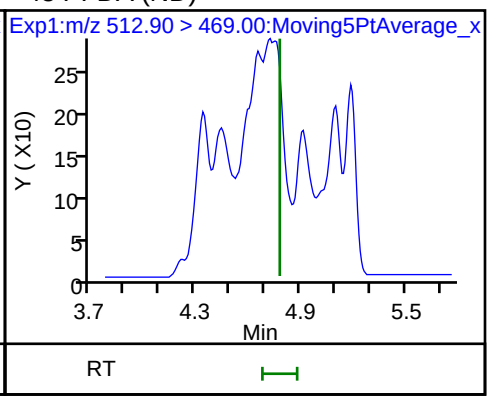

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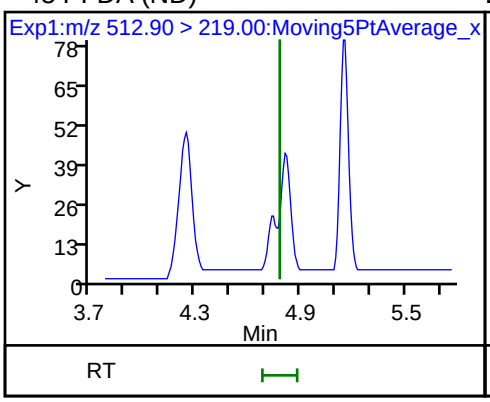
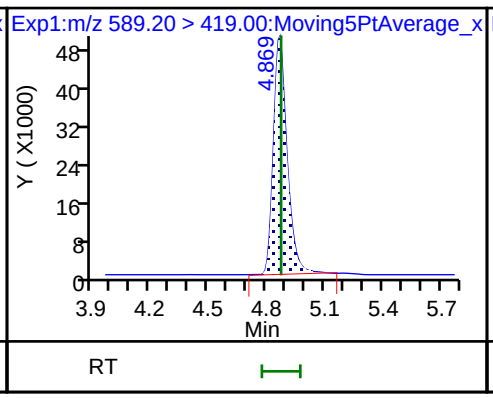


D 49 d5-NEtFOSAA



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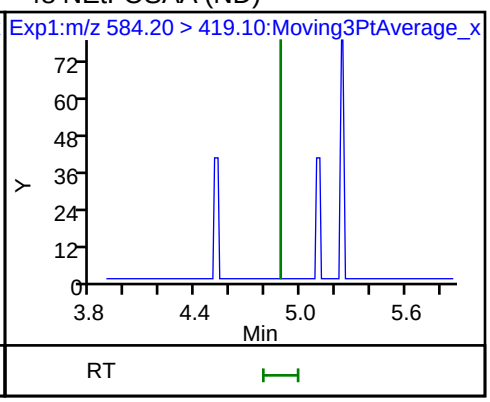

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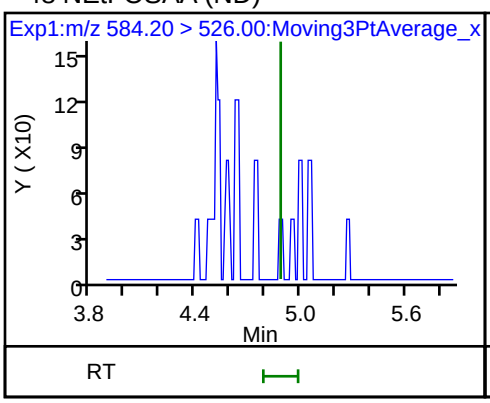
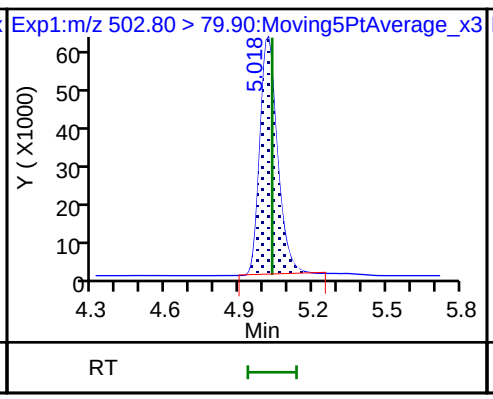


* 52 13C4 PFOS



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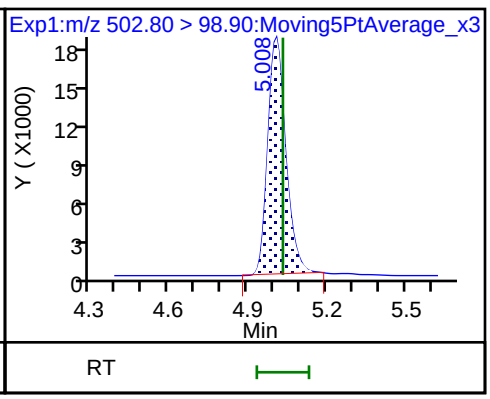

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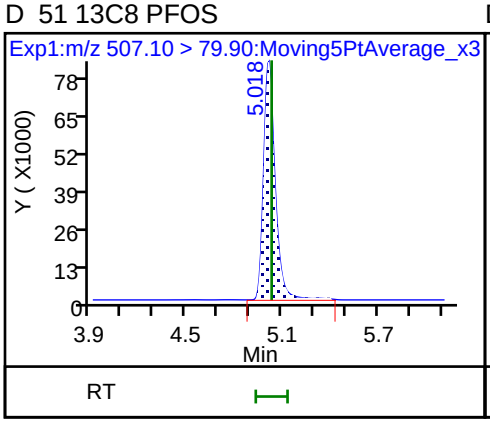

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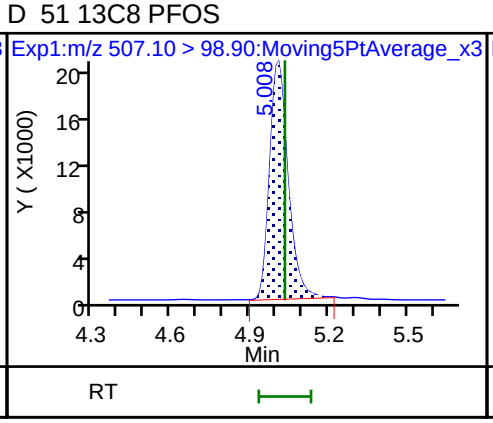

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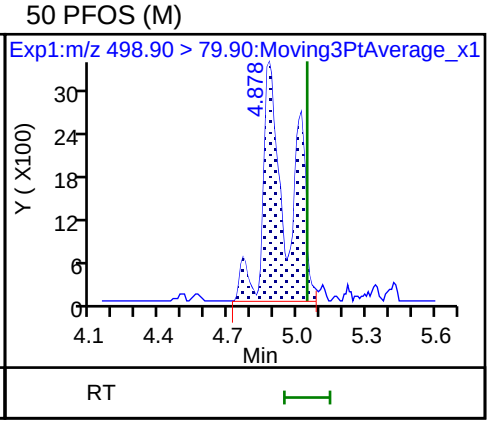

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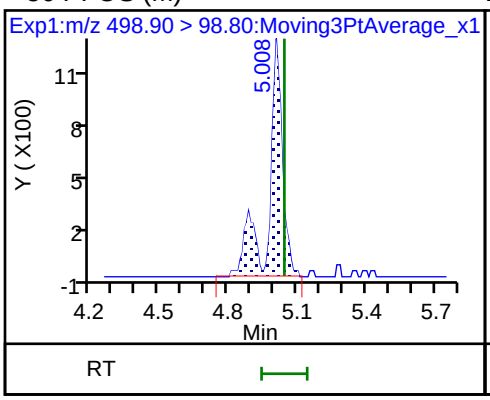

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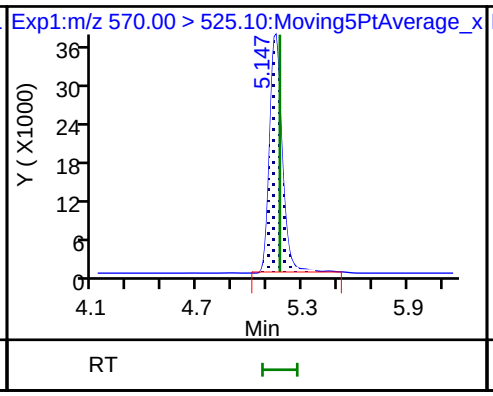

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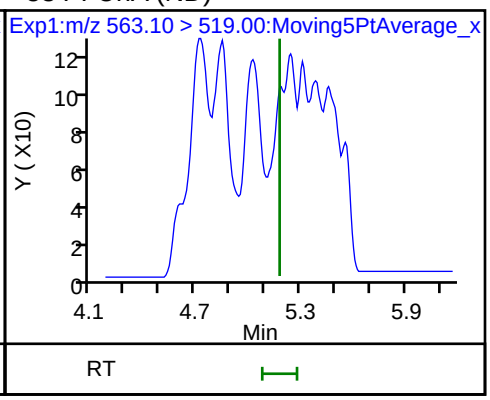

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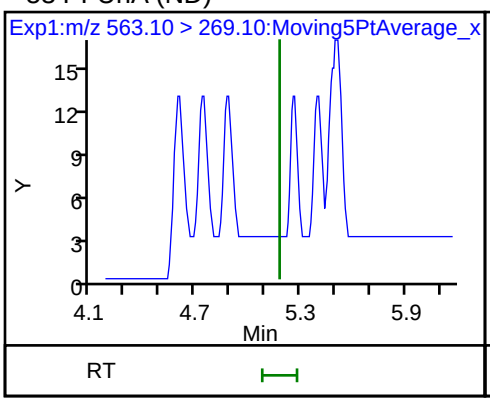

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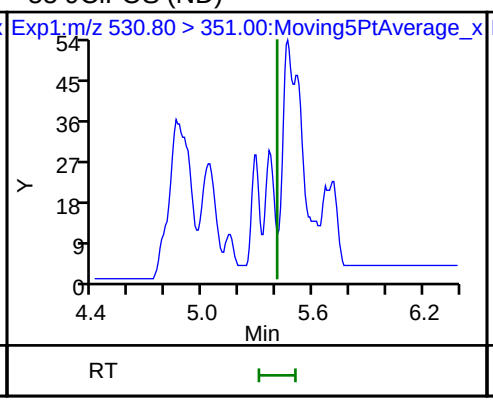

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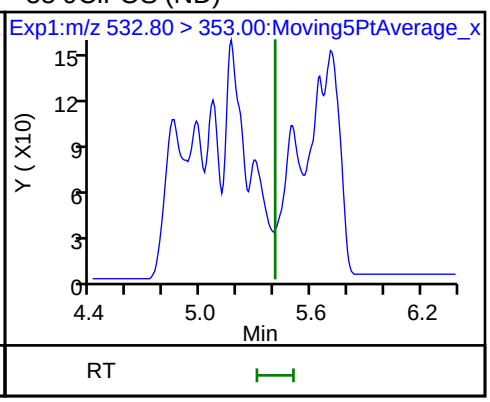

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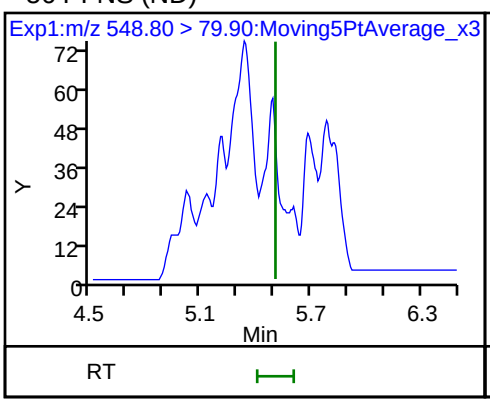

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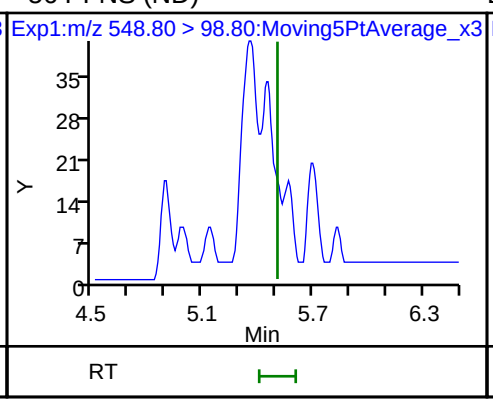
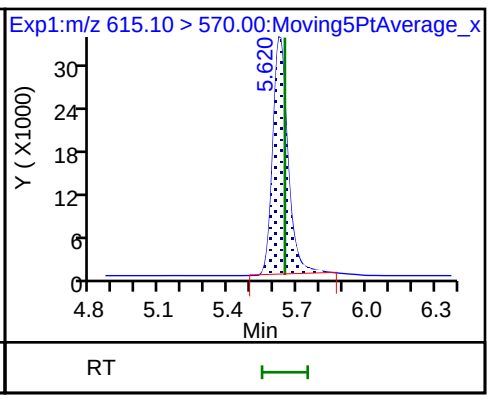


D 58 PFDoDA



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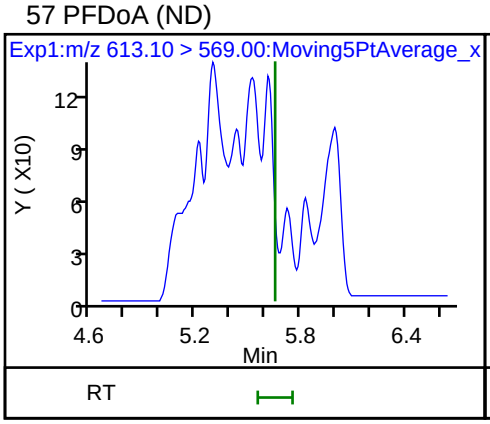

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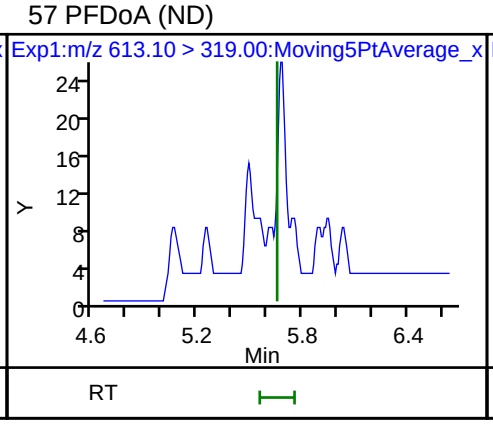

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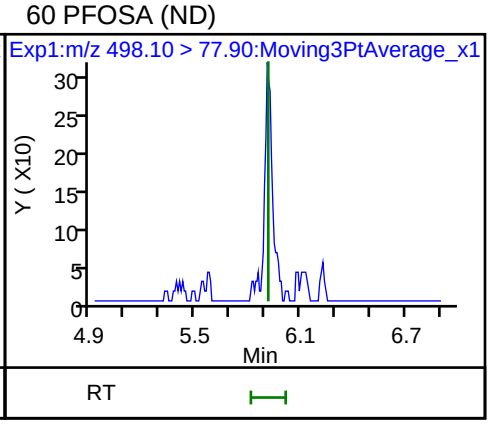

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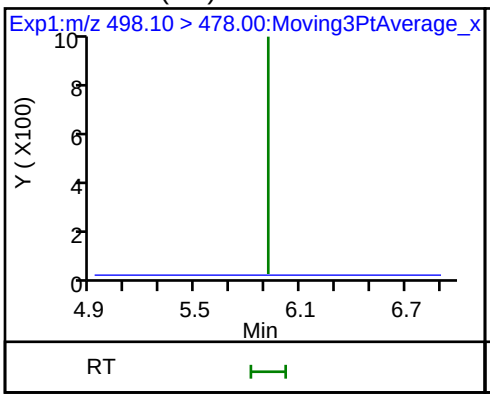

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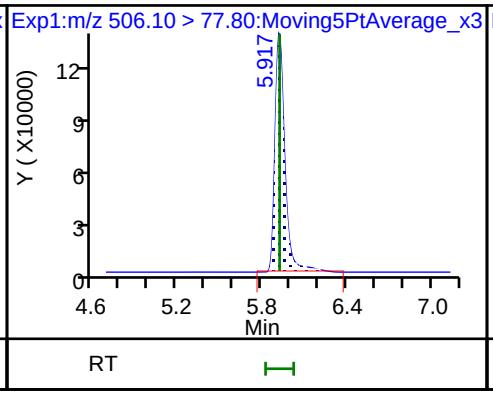

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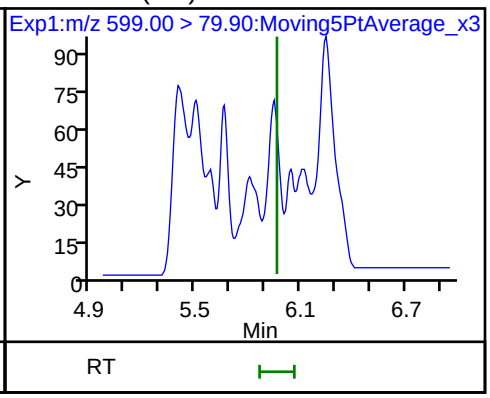

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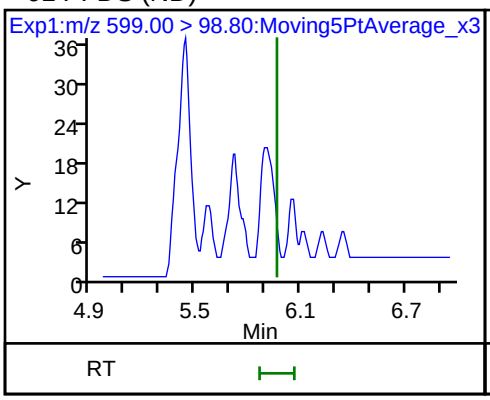
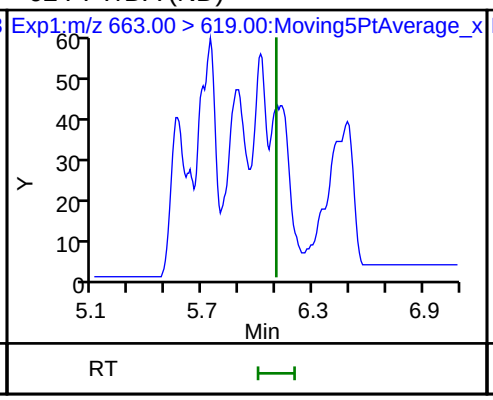
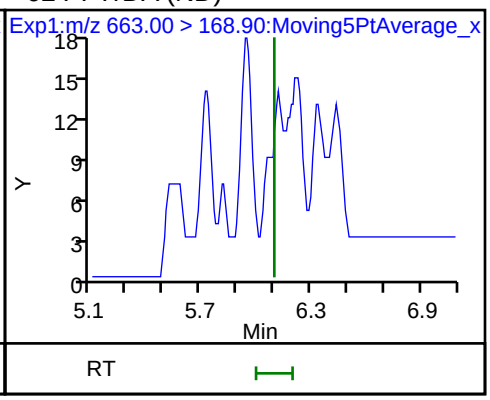


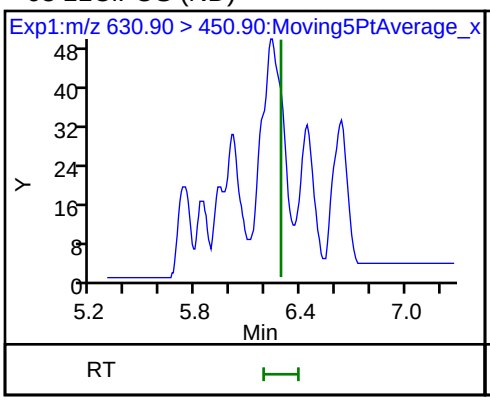
62 PFTrDA (ND)



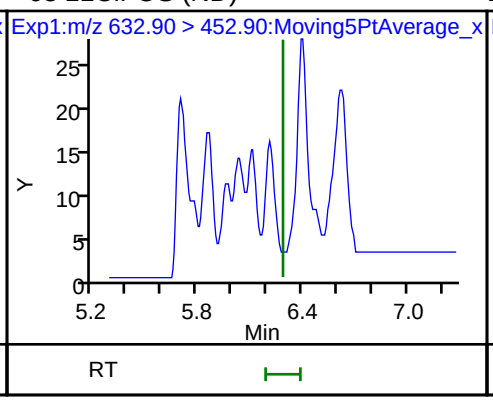
62 PFTrDA (ND)



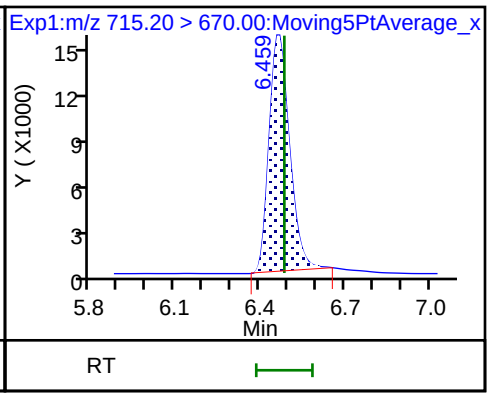
63 11ClFOS (ND)



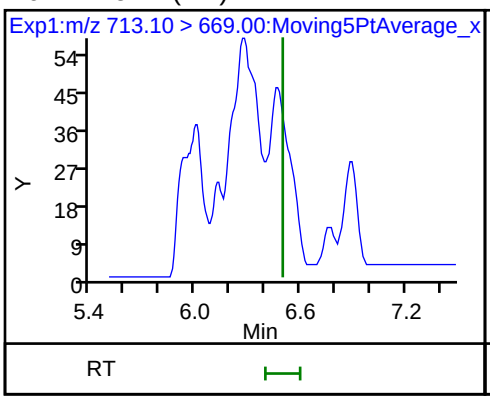
63 11ClFOS (ND)



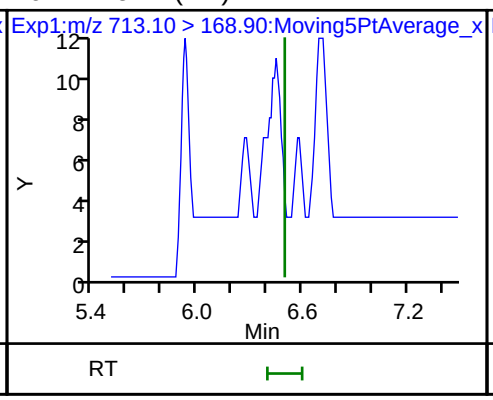
D 65 13C2 PFTeDA



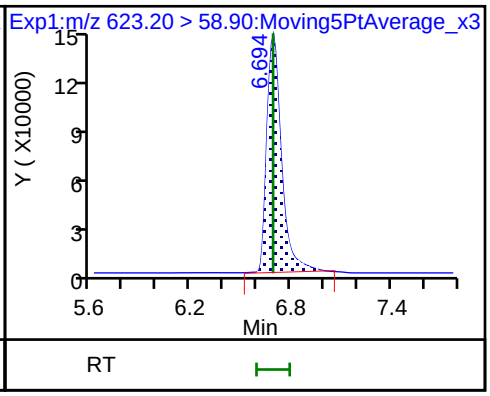
64 PFTeDA (ND)



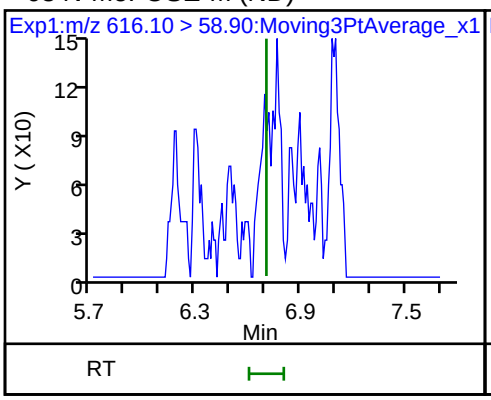
64 PFTeDA (ND)



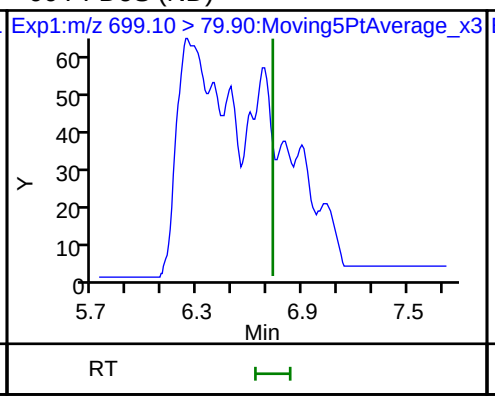
D 67 d7-N-Me-FOSE



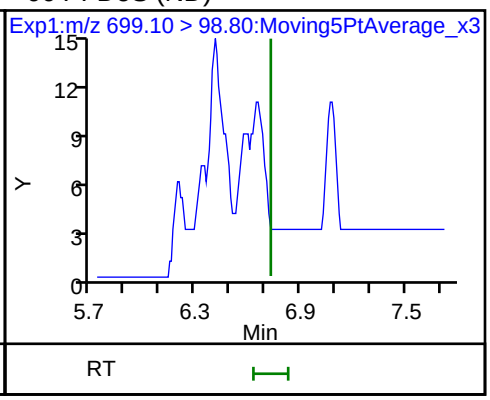
68 N-MeFOSE-M (ND)



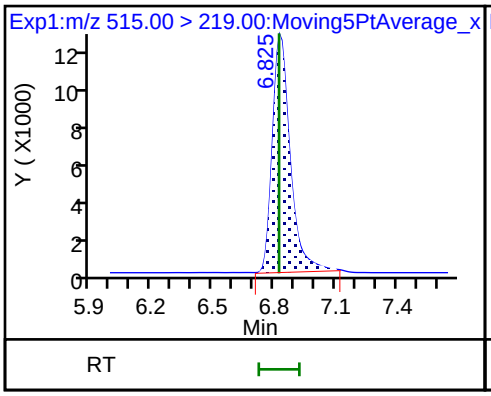
66 PFDoS (ND)



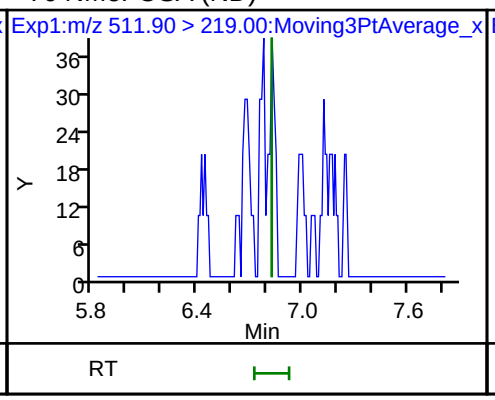
66 PFDoS (ND)



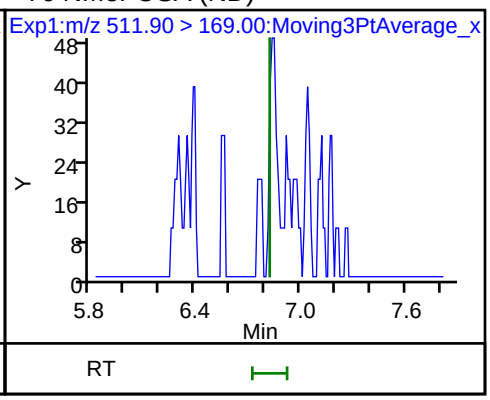
D 69 d3-NMePFOSA



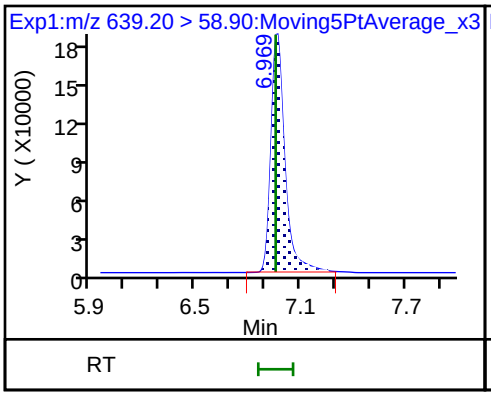
70 NMeFOSA (ND)



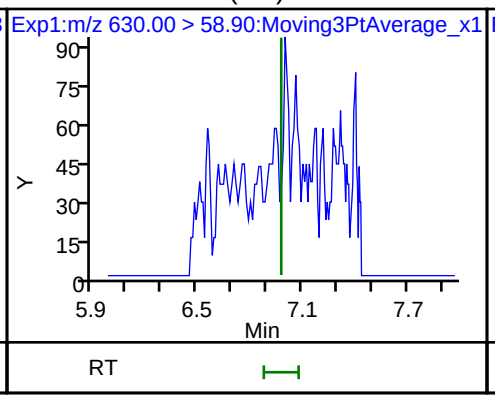
70 NMeFOSA (ND)



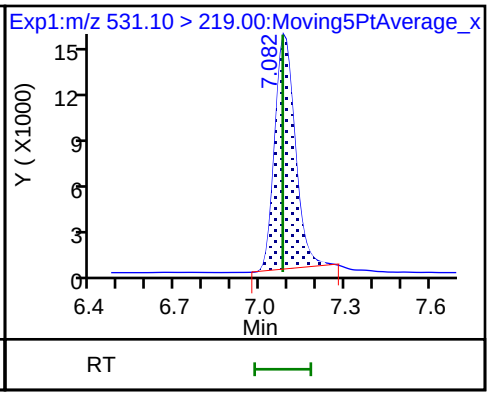
D 71 d9-N-EtFOSE



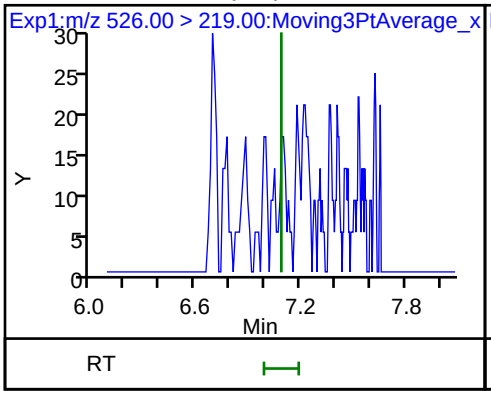
72 N-EtFOSE-M (ND)



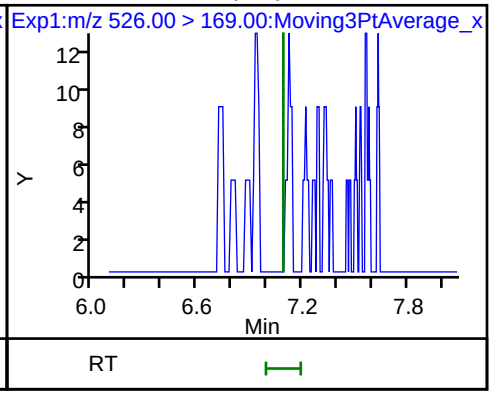
D 73 d5-NEtPFOSA



74 N-EtFOSA-M (ND)



74 N-EtFOSA-M (ND)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

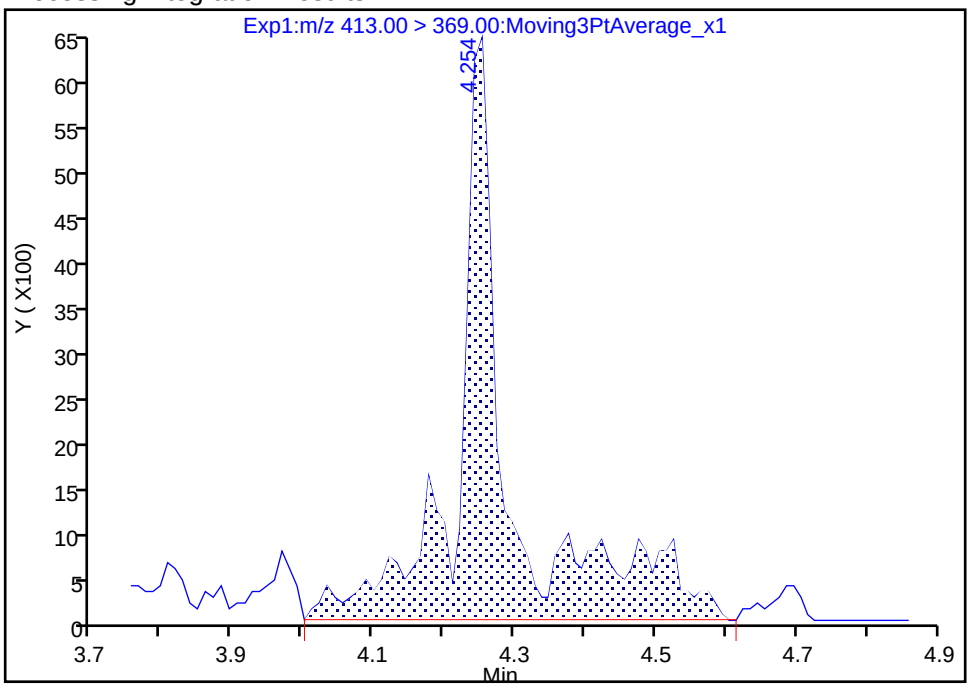
Data File:	\\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-56.d				
Injection Date:	08-Aug-2023 22:32:10	Instrument ID:	30729		
Lims ID:	460-282979-A-1-A	Lab Sample ID:	410-282979-1		
Client ID:	AD38758-001				
Operator ID:	US19_USR_INS20263	ALS Bottle#:	41	Worklist Smp#:	51
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

32 PFOA, CAS: 335-67-1

Signal: 1

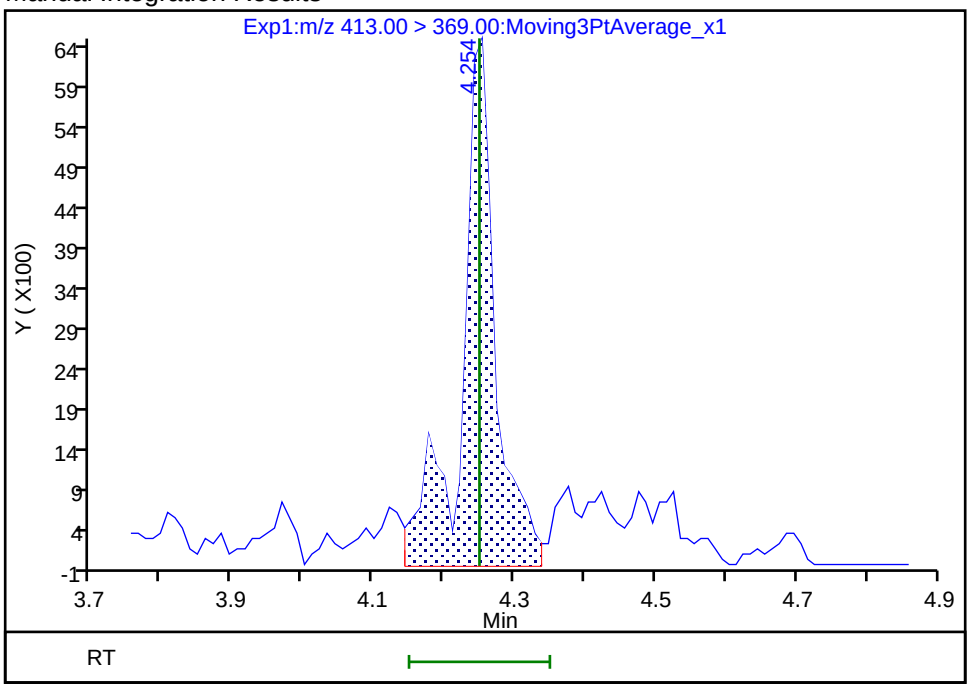
Processing Integration Results

RT: 4.25
Area: 33470
Amount: 0.293294
Amount Units: ng/ml



Manual Integration Results

RT: 4.25
Area: 21645
Amount: 0.189673
Amount Units: ng/ml



Reviewer: QY4X, 09-Aug-2023 09:23:06 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

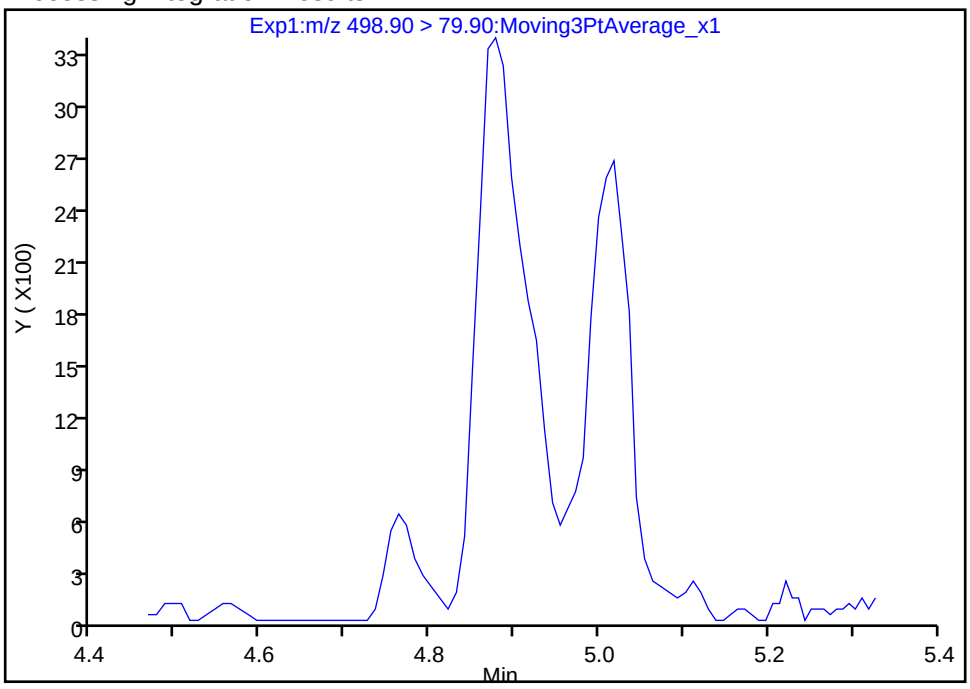
Data File:	\\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-56.d				
Injection Date:	08-Aug-2023 22:32:10	Instrument ID:	30729		
Lims ID:	460-282979-A-1-A	Lab Sample ID:	410-282979-1		
Client ID:	AD38758-001				
Operator ID:	US19_USR_INS20263	ALS Bottle#:	41	Worklist Smp#:	51
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

50 PFOS, CAS: 1763-23-1

Signal: 1

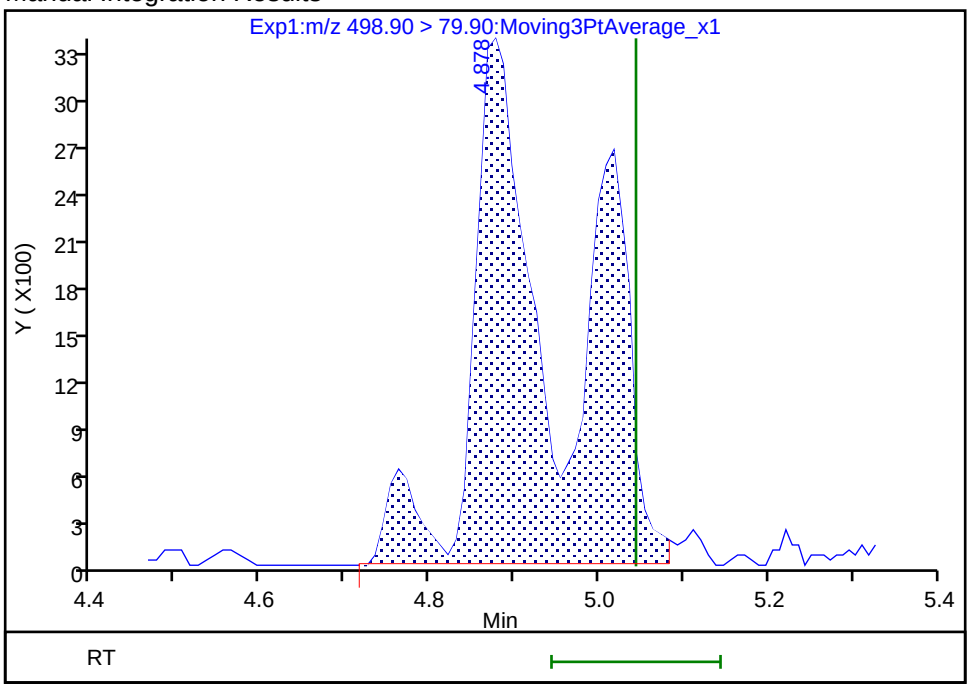
Not Detected
Expected RT: 5.04

Processing Integration Results



Manual Integration Results

RT: 4.88
Area: 24907
Amount: 0.153712
Amount Units: ng/ml



Reviewer: QY4X, 09-Aug-2023 09:23:35 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

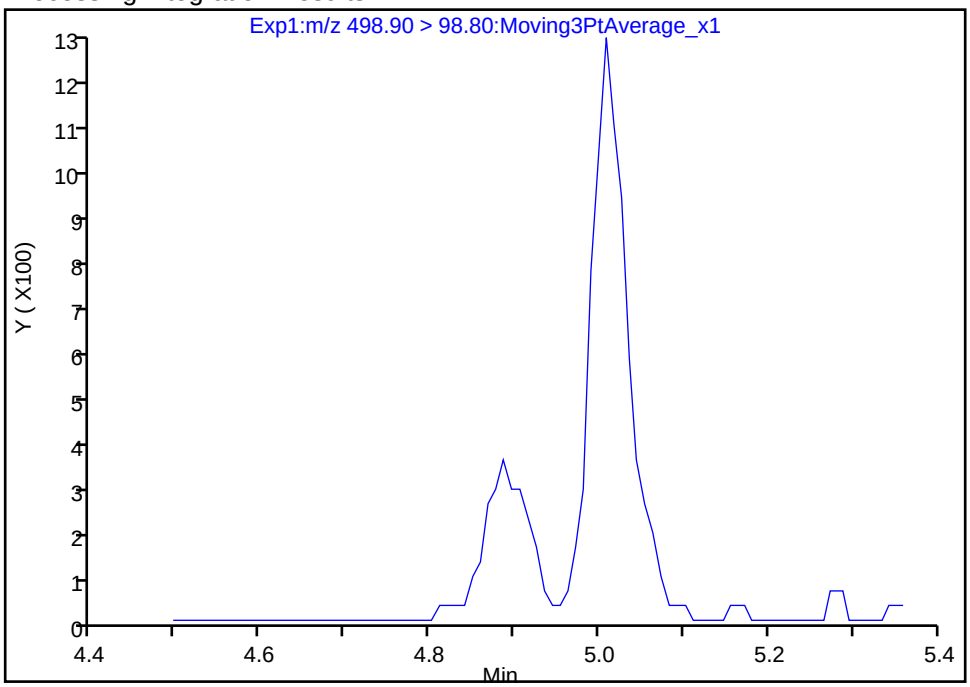
Data File:	\\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-56.d				
Injection Date:	08-Aug-2023 22:32:10	Instrument ID:	30729		
Lims ID:	460-282979-A-1-A	Lab Sample ID:	410-282979-1		
Client ID:	AD38758-001				
Operator ID:	US19_USR_INS20263	ALS Bottle#:	41	Worklist Smp#:	51
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

50 PFOS, CAS: 1763-23-1

Signal: 2

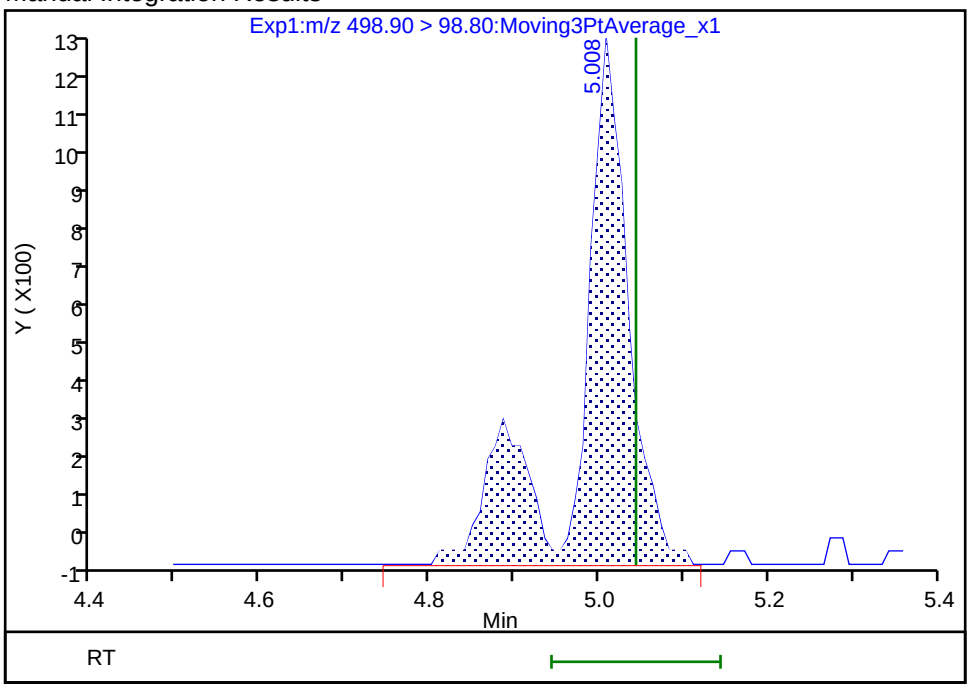
Not Detected
Expected RT: 5.04

Processing Integration Results



Manual Integration Results

RT: 5.01
Area: 5332
Amount: 0.153712
Amount Units: ng/ml



Reviewer: QY4X, 09-Aug-2023 09:23:44 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

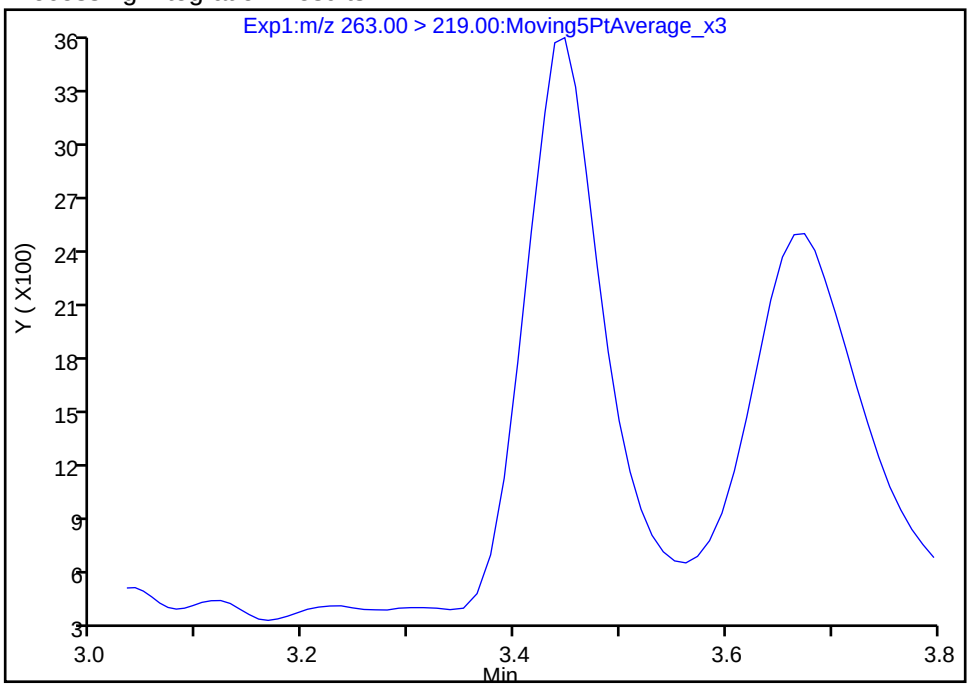
Data File:	\\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-56.d				
Injection Date:	08-Aug-2023 22:32:10	Instrument ID:	30729		
Lims ID:	460-282979-A-1-A	Lab Sample ID:	410-282979-1		
Client ID:	AD38758-001				
Operator ID:	US19_USR_INS20263	ALS Bottle#:	41	Worklist Smp#:	51
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

6 PFPA, CAS: 2706-90-3

Signal: 1

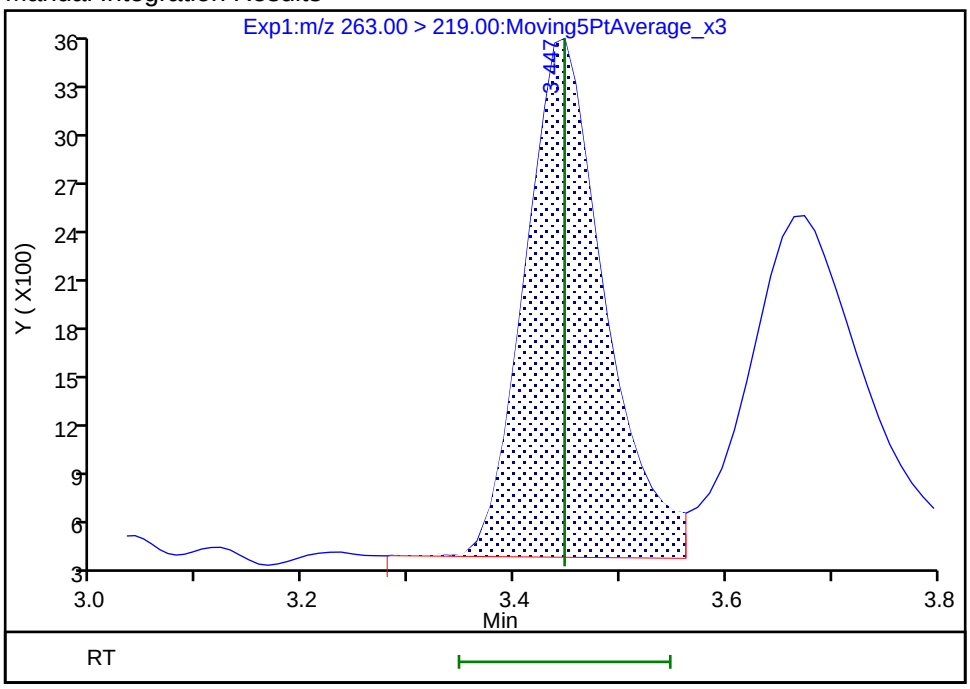
Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.45
Area: 16557
Amount: 0.119778
Amount Units: ng/ml



Reviewer: QY4X, 09-Aug-2023 10:56:20 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

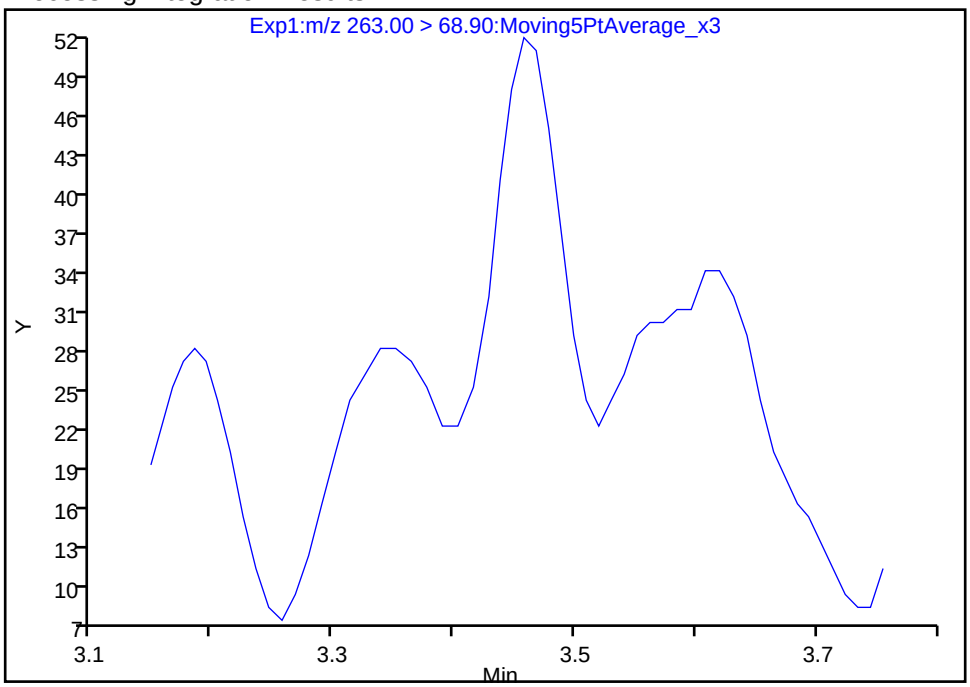
Data File:	\\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-56.d				
Injection Date:	08-Aug-2023 22:32:10	Instrument ID:	30729		
Lims ID:	460-282979-A-1-A	Lab Sample ID:	410-282979-1		
Client ID:	AD38758-001				
Operator ID:	US19_USR_INS20263	ALS Bottle#:	41	Worklist Smp#:	51
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

6 PFPA, CAS: 2706-90-3

Signal: 2

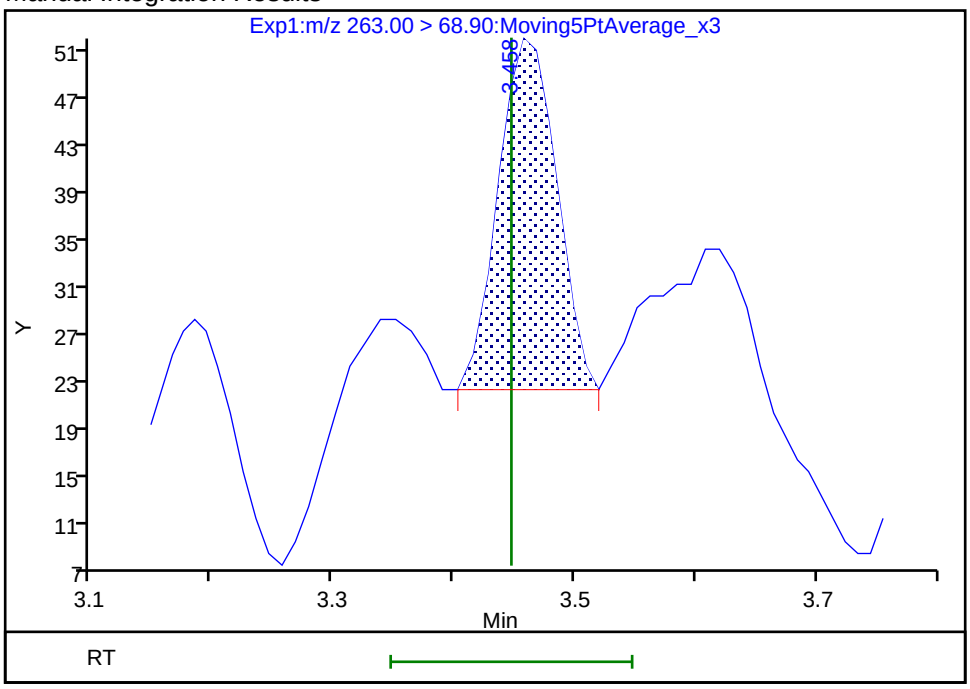
Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.46
Area: 100
Amount: 0.119778
Amount Units: ng/ml



Reviewer: QY4X, 09-Aug-2023 10:56:30 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: AD38758-004 Lab Sample ID: 460-282979-2

Matrix: Water Lab File ID: 23AUG08-61.d

Analysis Method: 1633 Date Collected: 06/22/2023 00:00

Extraction Method: 1633 Date Extracted: 07/17/2023 07:22

Sample wt/vol: 263.4(mL) Date Analyzed: 08/08/2023 23:37

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.90	U	15.2	1.90
355-46-4	Perfluorohexanesulfonic acid	1.08	U	3.80	1.08
2058-94-8	Perfluoroundecanoic acid	0.95	U	3.80	0.95
335-67-1	Perfluorooctanoic acid	2.72	J	3.80	1.21
335-77-3	Perfluorodecanesulfonic acid	0.95	U	3.80	0.95
376-06-7	Perfluorotetradecanoic acid	0.95	U	3.80	0.95
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.85	U	15.2	2.85
31506-32-8	NMeFOSA	0.95	U	3.80	0.95
812-70-4	7:3 FTCA	19.0	U	94.9	19.0
335-76-2	Perfluorodecanoic acid	0.95	U	3.80	0.95
72629-94-8	Perfluorotridecanoic acid	0.95	U	3.80	0.95
113507-82-7	PFEESA	0.95	U	7.59	0.95
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	0.95	U	3.80	0.95
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	3.23	U	15.2	3.23
375-95-1	Perfluorononanoic acid	0.95	U	3.80	0.95
13252-13-6	HFPO-DA	3.80	U	15.2	3.80
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	9.49	U	38.0	9.49
2706-91-4	Perfluoropentanesulfonic acid	0.95	U	3.80	0.95
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	4.75	U	15.2	4.75
68259-12-1	Perfluorononanesulfonic acid	0.76	U	3.80	0.76
375-85-9	Perfluoroheptanoic acid	0.99	U	3.80	0.99
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	3.80	U	15.2	3.80
1763-23-1	Perfluorooctanesulfonic acid	3.04	J	3.80	0.95
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	4.94	U	15.2	4.94
377-73-1	Perfluoro-3-methoxypropanoic acid	0.95	U	7.59	0.95
375-22-4	Perfluorobutanoic acid	3.80	U	15.2	3.80
2991-50-6	NEtFOSAA	1.33	U	3.80	1.33

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: AD38758-004 Lab Sample ID: 460-282979-2

Matrix: Water Lab File ID: 23AUG08-61.d

Analysis Method: 1633 Date Collected: 06/22/2023 00:00

Extraction Method: 1633 Date Extracted: 07/17/2023 07:22

Sample wt/vol: 263.4(mL) Date Analyzed: 08/08/2023 23:37

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-55-1	Perfluorododecanoic acid	0.95	U	3.80	0.95
307-24-4	Perfluorohexanoic acid	2.17	J	3.80	0.95
863090-89-5	Perfluoro(4-methoxybutanoic acid)	1.90	U	7.59	1.90
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	1.90	U	7.59	1.90
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1.71	U	3.80	1.71
2706-90-3	Perfluoropentanoic acid	1.95	J	7.59	1.90
914637-49-3	5:3 FTCA	19.0	U	94.9	19.0
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	9.49	U	38.0	9.49
754-91-6	Perfluorooctanesulfonamide	0.95	U	3.80	0.95
356-02-5	3:3 FTCA	2.85	U	19.0	2.85
2355-31-9	NMeFOSAA	2.28	U	7.59	2.28
375-73-5	Perfluorobutanesulfonic acid	2.77	J	3.80	0.57
375-92-8	Perfluoroheptanesulfonic acid	0.76	U	3.80	0.76

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: AD38758-004 Lab Sample ID: 460-282979-2

Matrix: Water Lab File ID: 23AUG08-61.d

Analysis Method: 1633 Date Collected: 06/22/2023 00:00

Extraction Method: 1633 Date Extracted: 07/17/2023 07:22

Sample wt/vol: 263.4(mL) Date Analyzed: 08/08/2023 23:37

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	89.8		10-130
STL01893	13C5 PFPeA	91.4		35-150
STL02577	13C5 PFHxA	77.3		55-150
STL01892	13C4 PFHpA	98.7		55-150
STL01052	13C8 PFOA	92.0		60-140
STL02578	13C9 PFNA	86.0		55-140
STL02579	13C6 PFDA	94.5		50-140
STL02580	13C7 PFUnA	91.9		30-140
STL02703	13C2-PFDoDA	83.8		10-150
STL02116	13C2 PFTeDA	78.5		10-130
STL02337	13C3 PFBS	99.0		55-150
STL02581	13C3 PFHxS	88.2		55-150
STL01054	13C8 PFOS	89.2		45-140
STL01056	13C8 FOSA	85.0		30-130
STL02118	d3-NMeFOSAA	76.7		45-200
STL02117	d5-NEtFOSAA	77.0		10-200
STL02395	M2-4:2 FTS	90.7		60-200
STL02279	M2-6:2 FTS	100	I	60-200
STL02280	M2-8:2 FTS	107		50-200
STL02255	13C3 HFPO-DA	92.4		25-160
STL02277	d7-N-MeFOSE-M	66.4		10-150
STL02278	d9-N-EtFOSE-M	66.7		10-150
STL02704	d5-NEtPFOSA	46.0		10-130
STL02705	d3-NMePFOSA	47.6		15-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-61.d
Lims ID: 460-282979-A-2-A
Client ID: AD38758-004
Sample Type: Client
Inject. Date: 08-Aug-2023 23:37:35 ALS Bottle#: 44 Worklist Smp#: 56
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 460-282979-A-2-A
Misc. Info.: Plate: 1 Rack: 1 410-0090889-056
Operator ID: US19_USR_INS20263 Instrument ID: 30729

Method: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\PFAS_30729_1633.m
Limit Group: LC - 1633 ICAL
Last Update: 09-Aug-2023 10:01:04 Calib Date: 05-Aug-2023 11:25:28
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-11.d

Column 1 : Det: EXP1
Process Host: CTX1649

First Level Reviewer: QY4X Date: 09-Aug-2023 10:00:17
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4-PFBA										
216.80 > 171.90	2.924	2.932	-0.008	0.997	1335409	8.98		89.8	79660	
* 3 13C3PFBA										
216.00 > 172.00	2.932	2.932	0.0		916236	5.00			1692	
1 PFBA										
212.80 > 168.90	2.924	2.942	-0.018	1.000	13874	0.1244			82.7	
D 7 13C5 PFPeA										
268.30 > 223.00	3.435	3.444	-0.009	0.916	388893	4.57		91.4	23791	
6 PFPA										M
263.00 > 219.00	3.435	3.447	-0.012	1.000	14468	0.1027	Target=1273.32		184	M
263.00 > 68.90	3.447	3.447	0.0	0.000	0		0.00(636.66-1909.99)			
D 10 13C2-4:2FTS										
329.10 > 80.90	3.627	3.638	-0.011	0.826	66770	4.26	Target=0.35	90.7	3177	
329.10 > 309.00	3.627	3.638	-0.011	0.826	150288		0.44(0.18-0.53)	90.7	7030	
D 14 13C5 PFHxA										
318.00 > 273.00	3.750	3.750	0.0	1.000	40012	1.93	Target=15.34	77.3	2526	
318.00 > 120.30	3.740	3.750	-0.010	0.997	2864		13.97(7.67-23.01)	77.3	213	
* 15 13C2 PFHxA										
315.10 > 270.00	3.750	3.750	0.0		296094	2.50	Target=103.53		18797	
315.10 > 119.40	3.740	3.750	-0.010		3519		84.14(51.76-155.29)		251	
13 PFHxA										M
313.00 > 269.00	3.750	3.755	-0.005	1.000	9929	0.1142	Target=13.63		223	M
313.00 > 118.90	3.729	3.755	-0.026	0.994	934		10.63(6.82-20.45)		75.7	
D 18 13C3 PFBS										
302.10 > 79.90	3.844	3.856	-0.012	0.875	511162	2.31	Target=6.99	99.0	31633	
302.10 > 98.90	3.844	3.856	-0.012	0.875	66878		7.64(3.50-10.49)	99.0	4192	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
17 PFBS										
298.70 > 79.90	3.844	3.860	-0.016	1.000	19337	0.1457	Target=3.41		734	
298.70 > 98.80	3.844	3.860	-0.016	1.000	5496		3.52(1.70-5.11)		267	
D 20 13C3 HFPO-DA										
286.90 > 168.90	3.867	3.867	0.0	1.031	1207919	9.24	Target=29.00	92.4	73136	
286.90 > 184.90	3.856	3.867	-0.011	1.028	39452		30.62(14.50-43.50)	92.4	2539	
D 25 13C4 PFHpA										
367.10 > 322.00	4.007	4.018	-0.011	1.069	612805	2.47		98.7	38064	
24 PFHpA										
363.10 > 319.00	4.007	4.022	-0.015	1.000	11495	0.0497	Target=3.62		262	
363.10 > 169.00	3.997	4.022	-0.025	0.997	4345		2.65(1.81-5.44)		282	
D 29 13C2-6:2FTS										R
429.10 > 80.90	4.118	4.129	-0.011	0.938	38609	4.77	Target=0.12	100	2307	R
429.10 > 409.00	4.107	4.129	-0.022	0.935	203652		0.19(0.06-0.18)	100	12209	
32 PFOA										M
413.00 > 369.00	4.239	4.250	-0.011	1.000	17486	0.1432	Target=2.36		11.6	M
413.00 > 169.00	4.239	4.250	-0.011	1.000	11226		1.56(1.18-3.53)		27.7	
* 30 13C4 PFOA										
417.10 > 172.00	4.239	4.261	-0.022		28258	2.50			1748	
D 31 13C8 PFOA										
421.10 > 376.00	4.239	4.261	-0.022	1.000	617936	2.30		92.0	38140	
* 35 18O2 PFHxS										
403.00 > 83.90	4.392	4.401	-0.009		506322	2.37			26380	
D 36 13C3 PFHxS										
402.10 > 79.90	4.401	4.411	-0.010	1.002	502896	2.09	Target=3.90	88.2	33012	
402.10 > 98.80	4.392	4.411	-0.019	1.000	133548		3.77(1.95-5.85)	88.2	9085	
D 38 13C9 PFNA										
472.10 > 427.00	4.483	4.493	-0.010	1.002	160638	1.07		86.0	10902	
* 37 13C5 PFNA										
468.00 > 423.00	4.473	4.493	-0.020		176982	1.25			11799	
D 41 13C2-8:2FTS										
529.10 > 80.90	4.592	4.601	-0.009	1.045	22208	5.14	Target=0.14	107	1459	
529.10 > 509.00	4.581	4.601	-0.020	1.043	127933		0.17(0.07-0.21)	107	8684	
D 44 d3-NMeFOSAA										
573.20 > 419.00	4.713	4.723	-0.010	0.942	284860	3.83		76.7	13804	
* 46 13C2 PFDA										
515.10 > 470.10	4.759	4.778	-0.019		222759	1.25			11370	
D 47 13C6 PFDA										
519.10 > 474.10	4.759	4.778	-0.019	1.000	212321	1.18		94.5	14442	
D 49 d5-NEtFOSAA										
589.20 > 419.00	4.856	4.874	-0.018	0.970	266290	3.85		77.0	13796	
* 52 13C4 PFOS										
502.80 > 79.90	5.005	5.033	-0.028		357836	2.40	Target=4.18		18298	
502.80 > 98.90	4.996	5.033	-0.037		91648		3.90(2.09-6.27)		6475	
D 51 13C8 PFOS										
507.10 > 79.90	5.005	5.033	-0.028	1.000	454616	2.14	Target=3.96	89.2	18881	
507.10 > 98.90	4.996	5.033	-0.037	0.998	101687		4.47(1.98-5.94)	89.2	5186	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
50 PFOS										M
498.90 > 79.90	4.874	5.044	-0.170	0.974	28001	0.1601	Target=4.55		45.9	M
498.90 > 98.80	4.996	5.044	-0.048	0.998	5246		5.34(2.28-6.83)		26.4	M
D 54 13C7 PFUnA										
570.00 > 525.10	5.135	5.170	-0.035	1.079	189696	1.15		91.9	9774	
D 58 PFDoDA										
615.10 > 570.00	5.618	5.646	-0.028	1.180	153589	1.05		83.8	6817	
D 59 13C8 FOSA										
506.10 > 77.80	5.915	5.923	-0.008	1.182	663131	2.13		85.0	44723	
D 65 13C2 PFTeDA										
715.20 > 670.00	6.457	6.485	-0.028	1.357	80990	0.9808		78.5	5422	
D 67 d7-N-Me-FOSE										
623.20 > 58.90	6.680	6.692	-0.012	1.335	851791	16.6		66.4	34893	
D 69 d3-NMePFOSA										
515.00 > 219.00	6.823	6.823	0.0	1.363	72780	1.19		47.6	4047	
D 71 d9-N-EtFOSE										
639.20 > 58.90	6.957	6.957	0.0	1.390	1050142	16.7		66.7	32186	
D 73 d5-NEtPFOSA										
531.10 > 219.00	7.079	7.080	-0.001	1.414	75369	1.15		46.0	3755	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Reagents:

PFC_ST_02214 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 09-Aug-2023 10:01:24 Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-61.d

Injection Date: 08-Aug-2023 23:37:35 Instrument ID: 30729

Lims ID: 460-282979-A-2-A Lab Sample ID: 410-282979-2

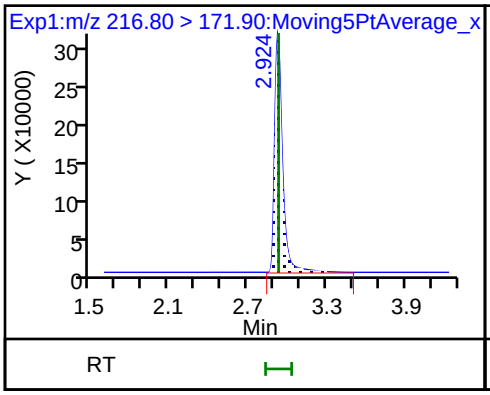
Client ID: AD38758-004

Operator ID: US19_USR_INS20263 ALS Bottle#: 44 Worklist Smp#: 56

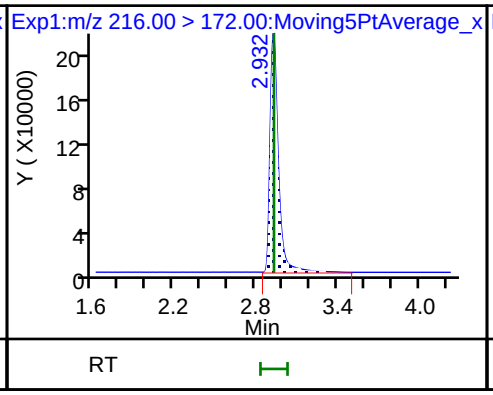
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: PFAS_30729_1633 Limit Group: LC - 1633 ICAL

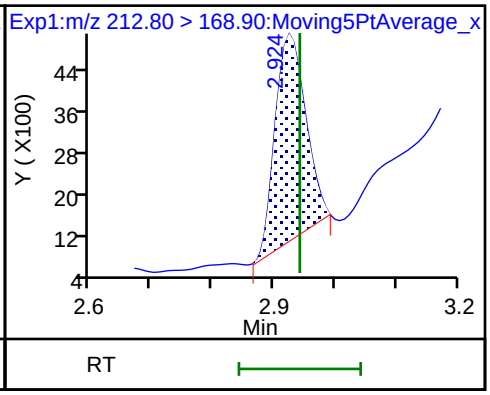
D 2 13C4-PFBA



* 3 13C3PFBA



1 PFBA



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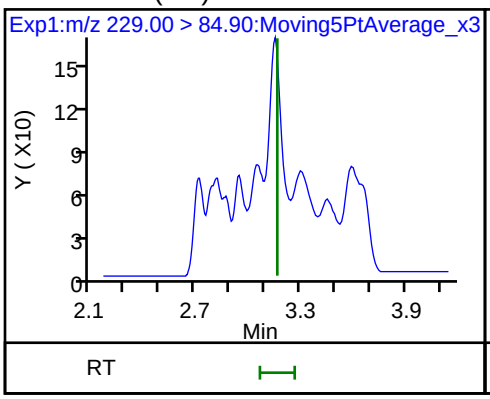
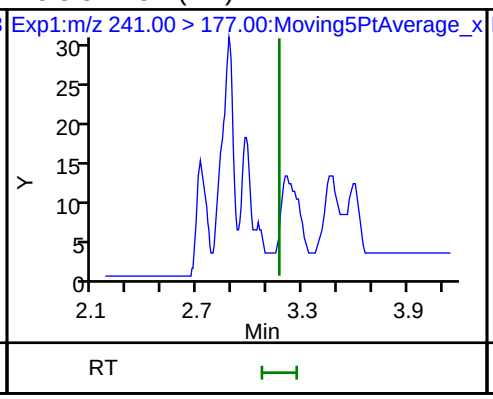


5 3:3 FTCA (ND)



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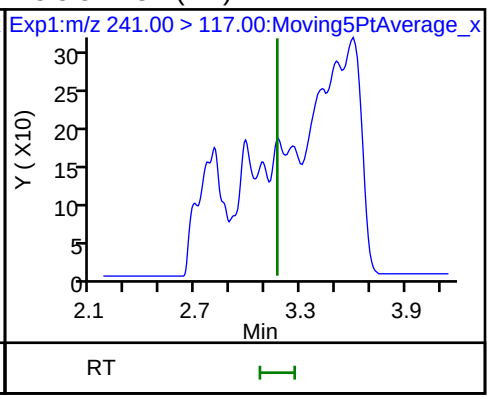
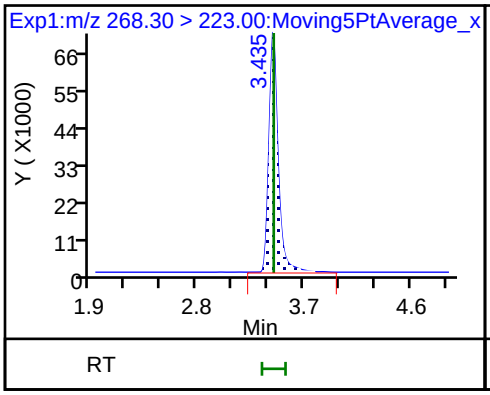
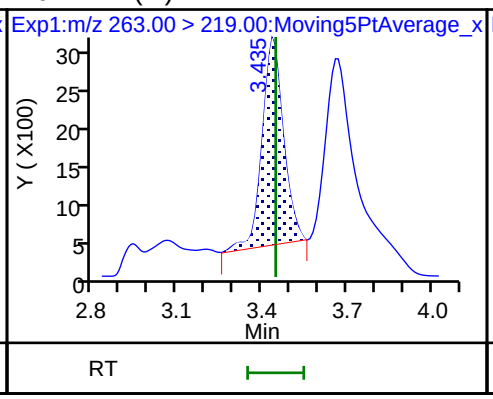


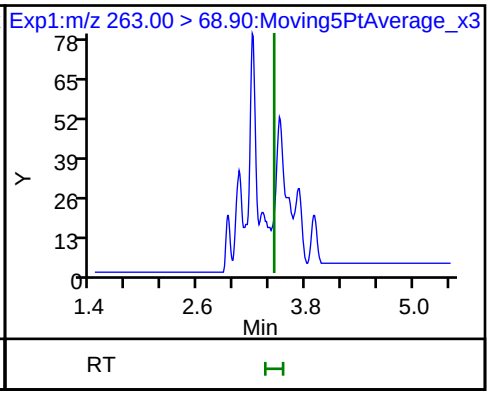
D 7 13C5 PFPeA



6 PFPA (M)



6 PFPA



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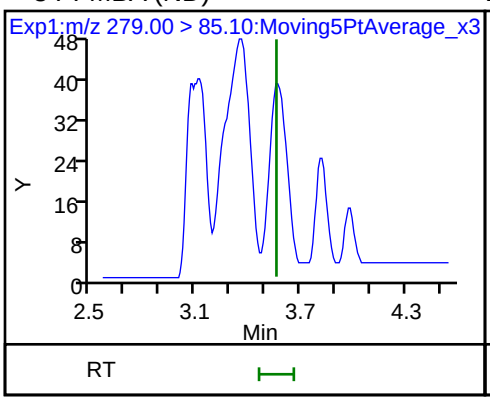

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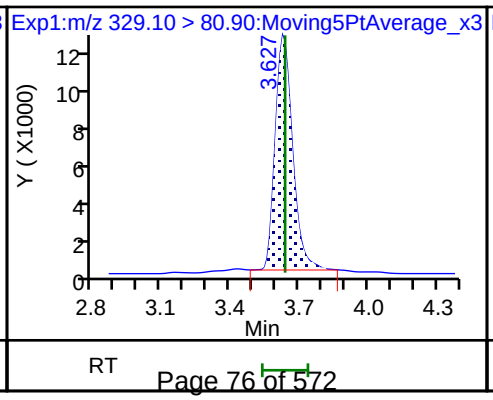

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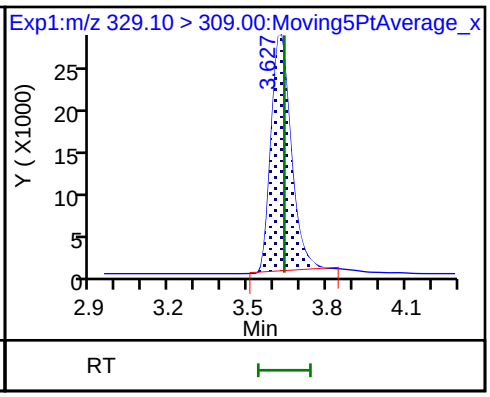
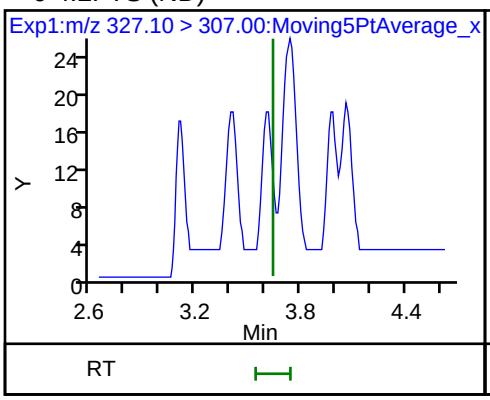
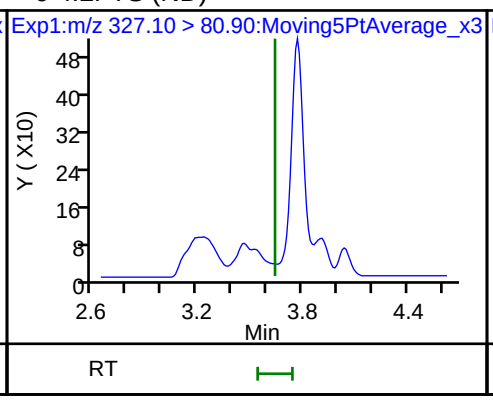


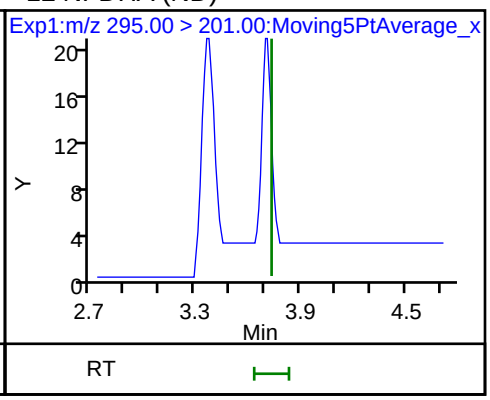
9 4:2FTS (ND)



9 4:2FTS (ND)



12 NFDHA (ND)



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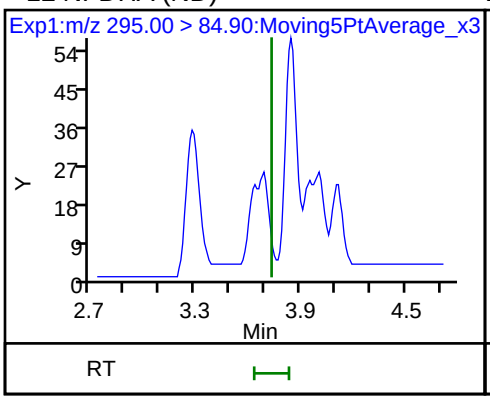
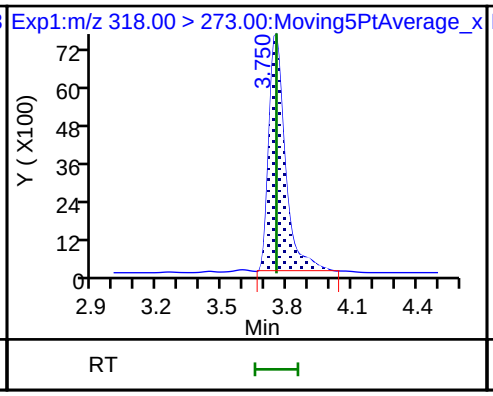


D 14 13C5 PFHxA



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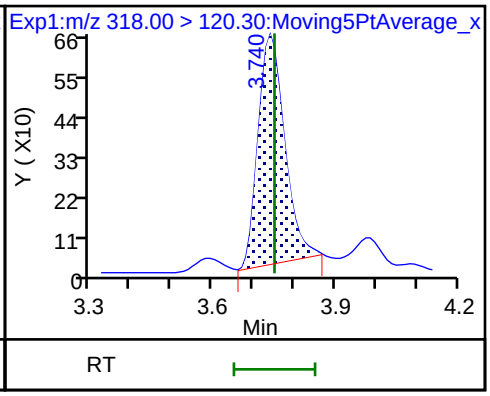

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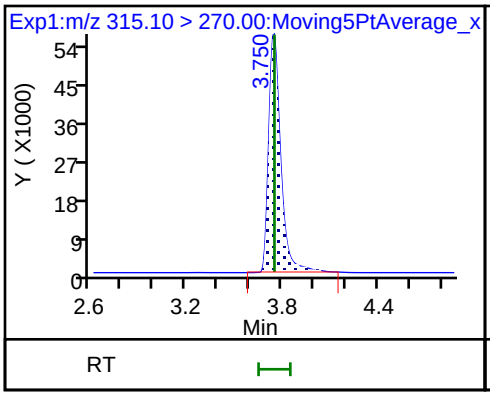
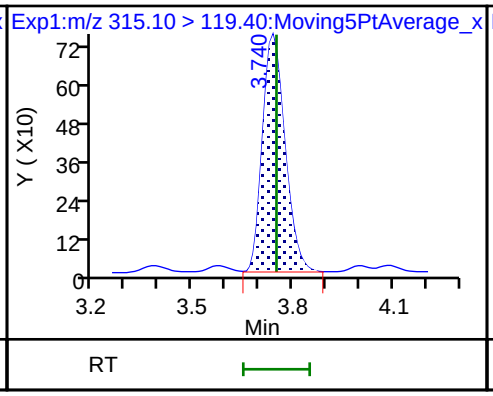
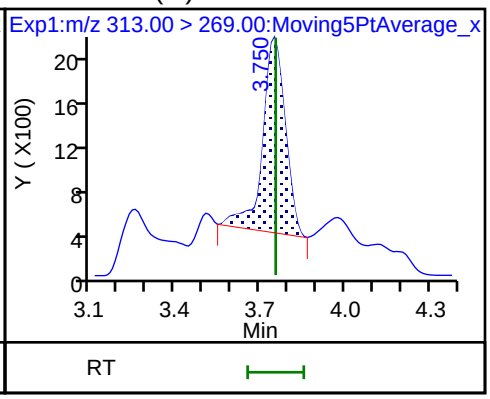


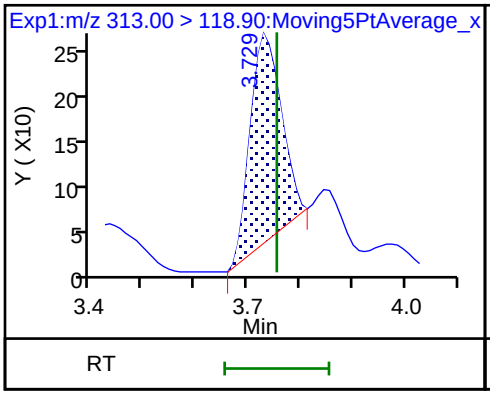
* 15 13C2 PFHxA



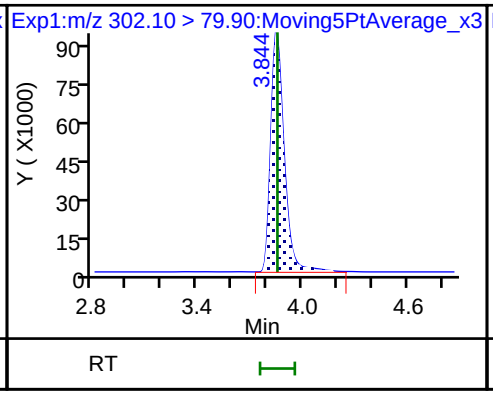
13 PFHxA (M)



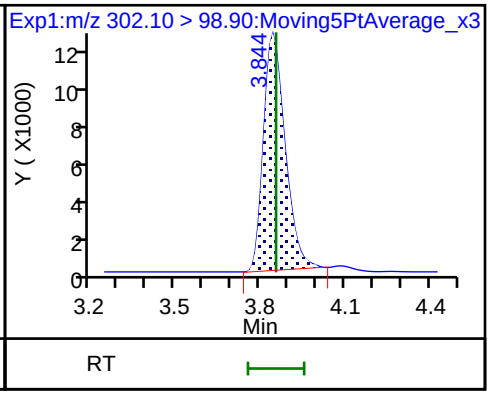
13 PFHxA



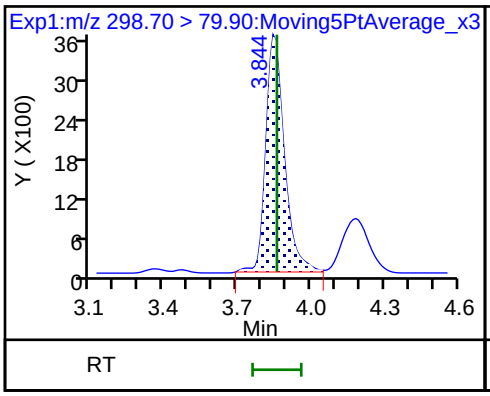
D 18 13C3 PFBS



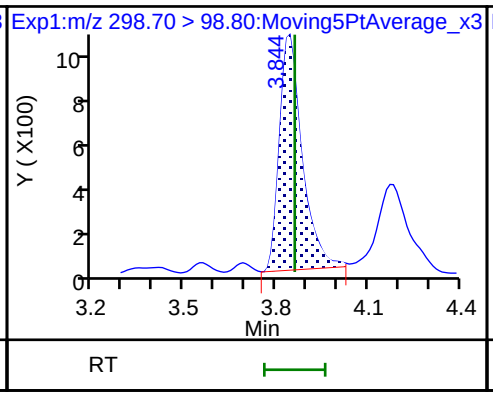
D 18 13C3 PFBS



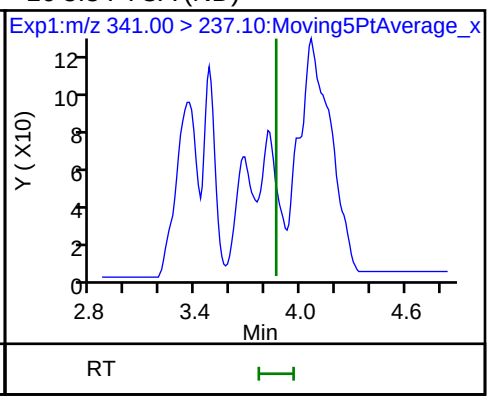
17 PFBS



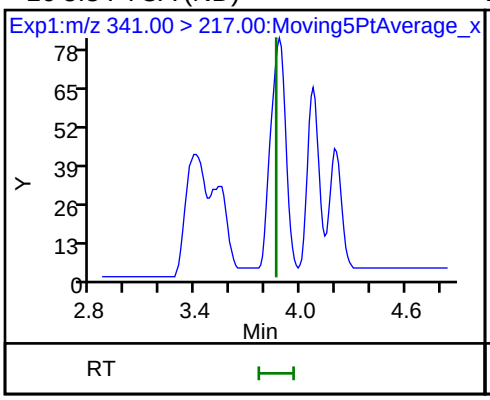
17 PFBS



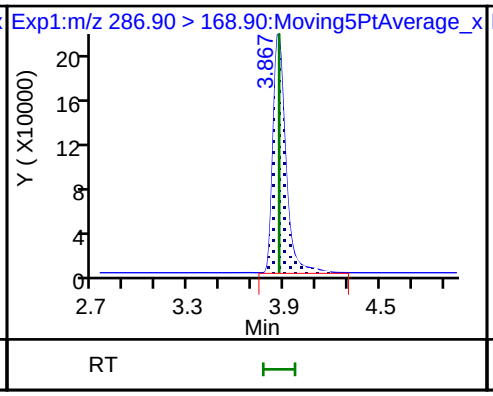
16 5:3 FTCA (ND)



16 5:3 FTCA (ND)



D 20 13C3 HFPO-DA



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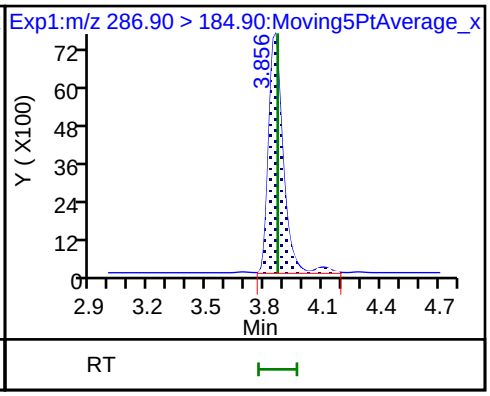

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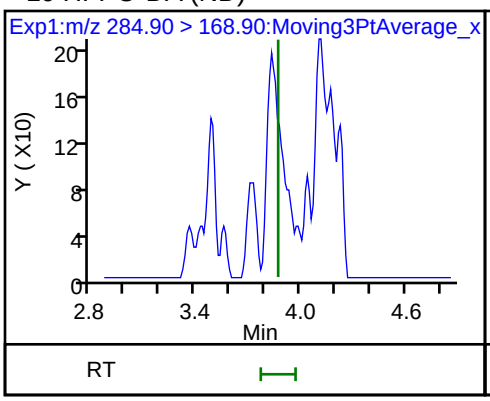

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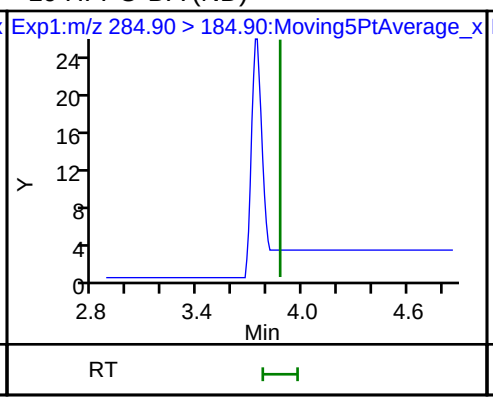
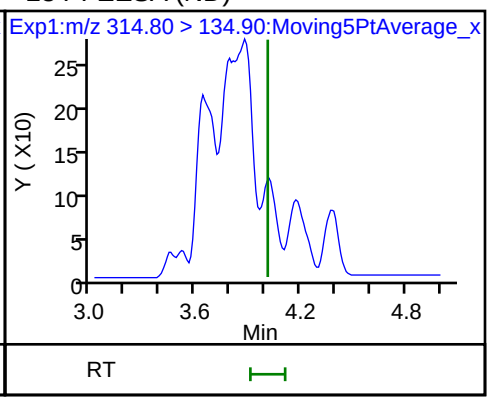


23 PFEESA (ND)



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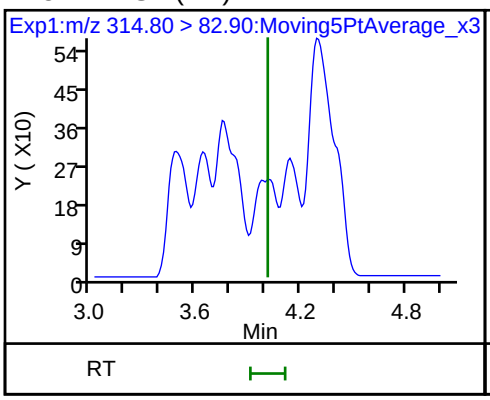
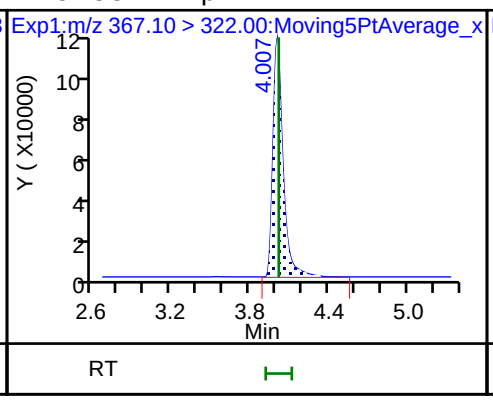


D 25 13C4 PFHpA



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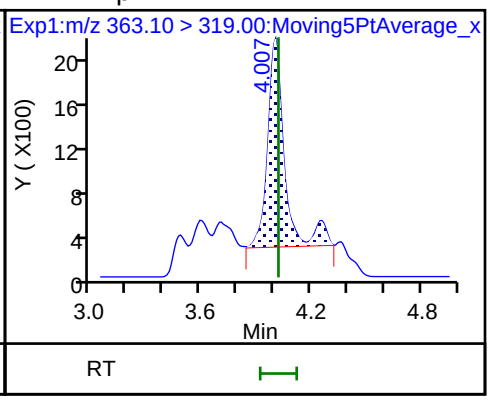

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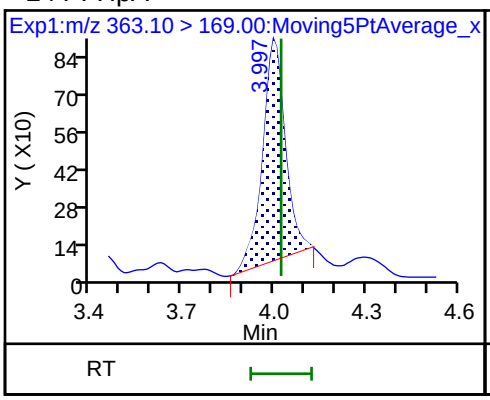
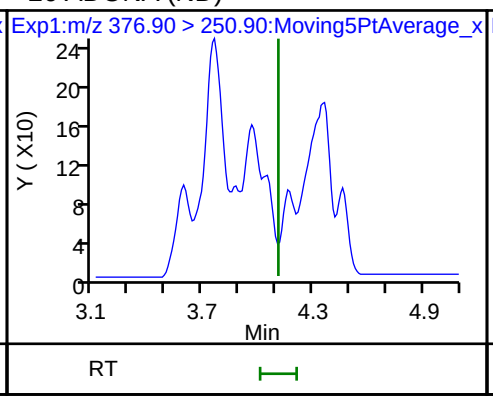


26 ADONA (ND)



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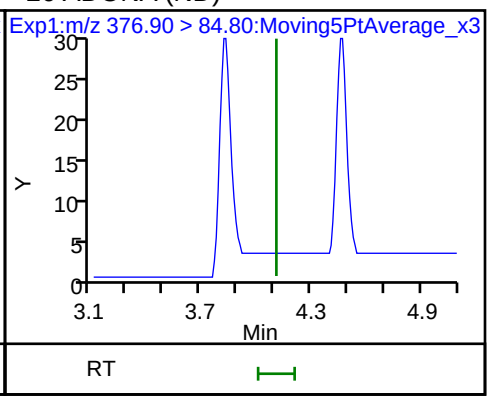
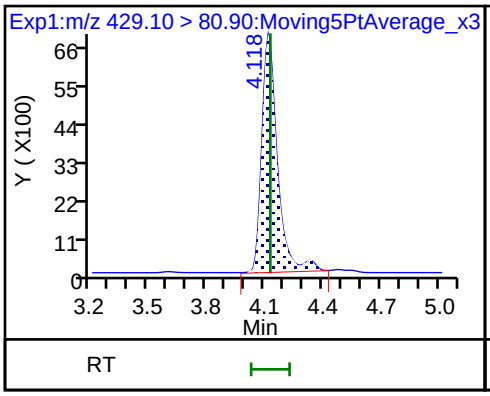
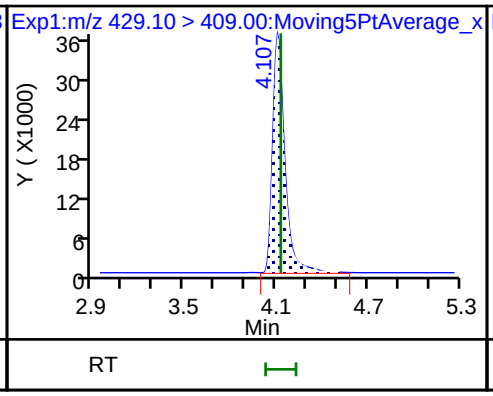


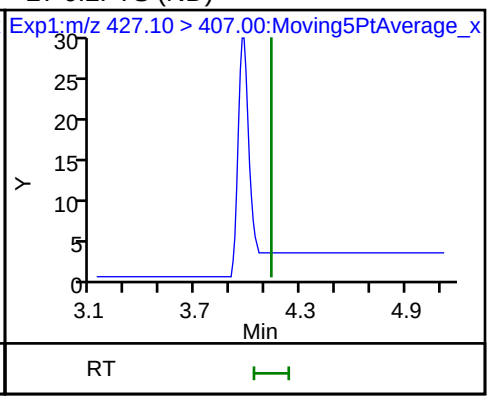
D 29 13C2-6:2FTS



D 29 13C2-6:2FTS



27 6:2FTS (ND)



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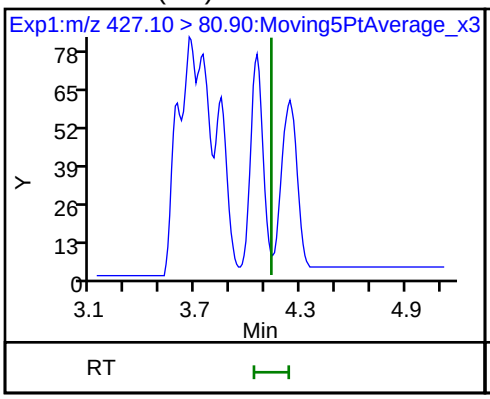
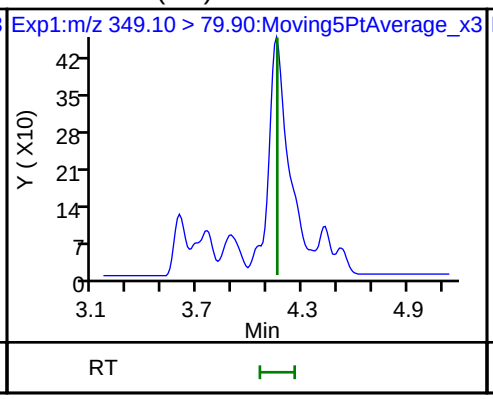


28 PFPeS (ND)



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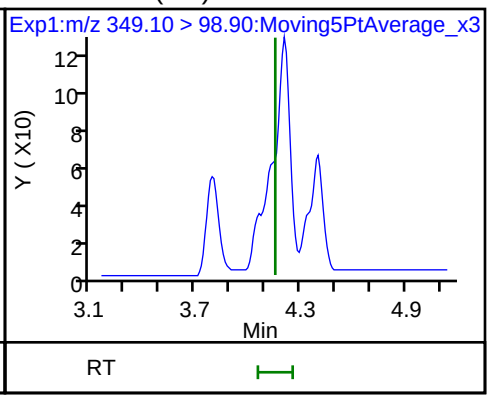
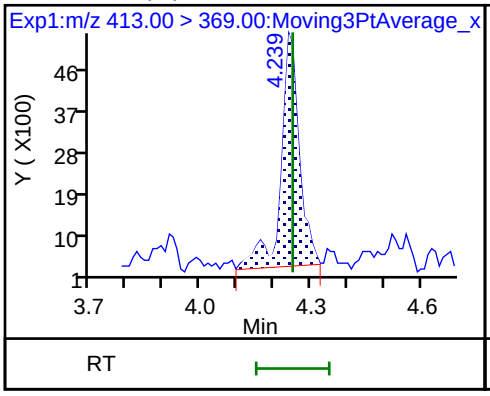
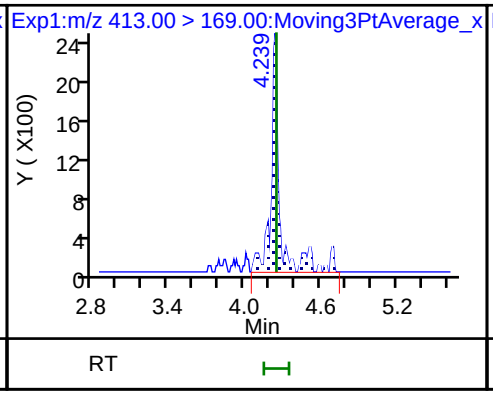


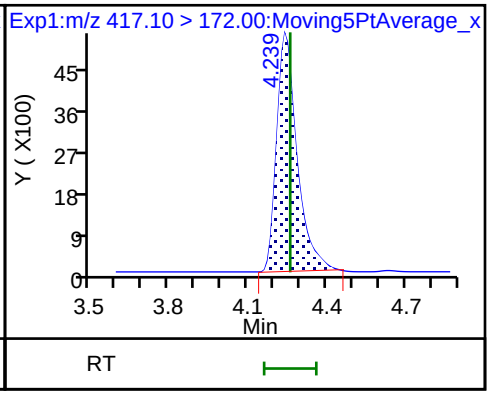
32 PFOA (M)



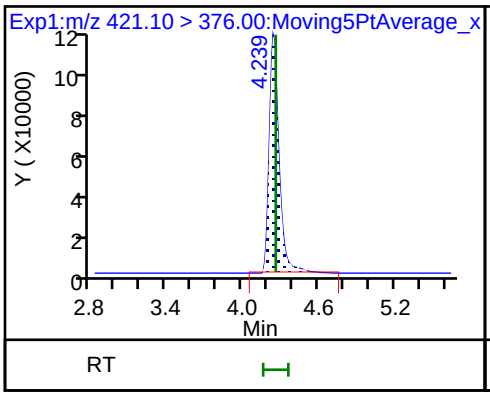
32 PFOA



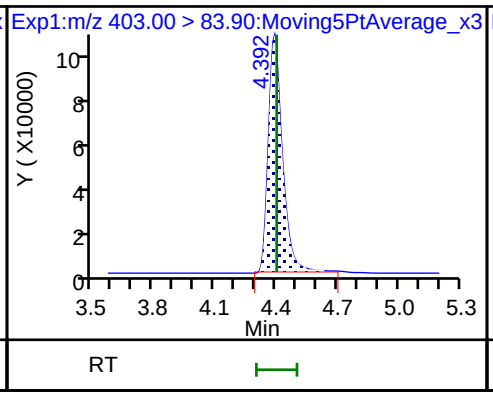
* 30 13C4 PFOA



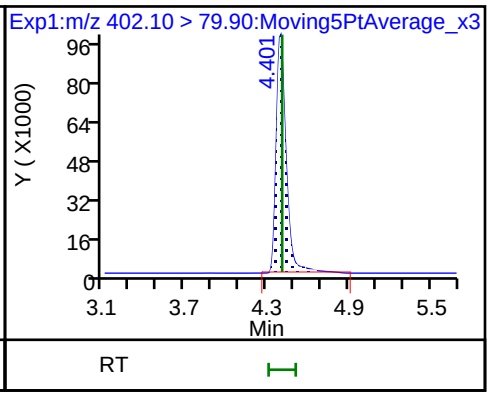
D 31 13C8 PFOA



* 35 18O2 PFHxS



D 36 13C3 PFHxS



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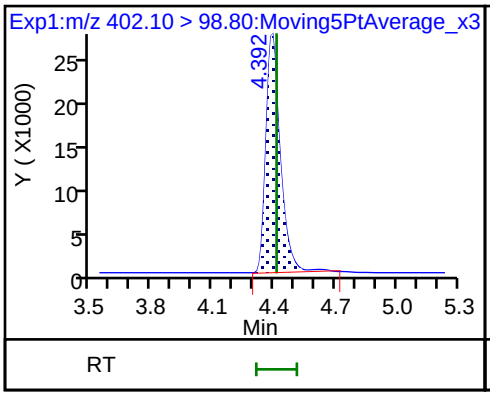

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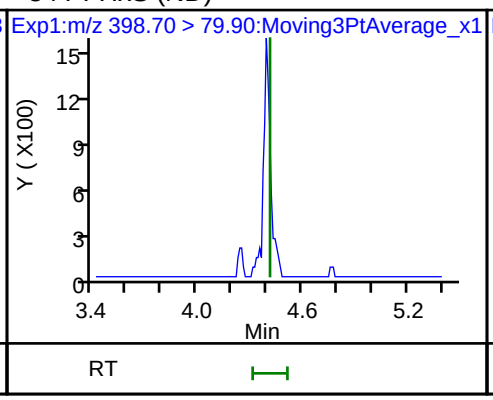

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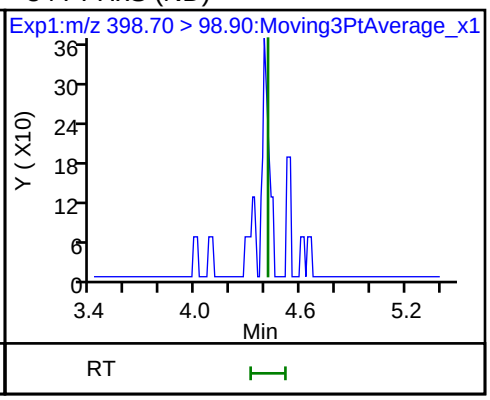
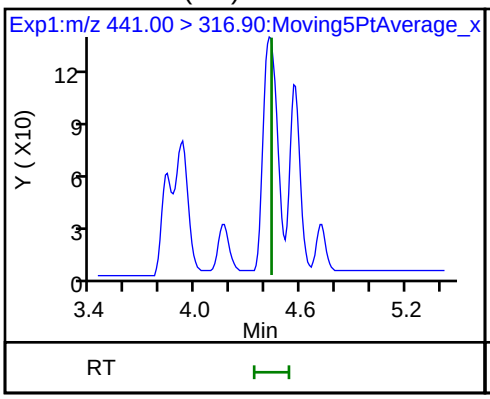


33 7:3 FTCA (ND)



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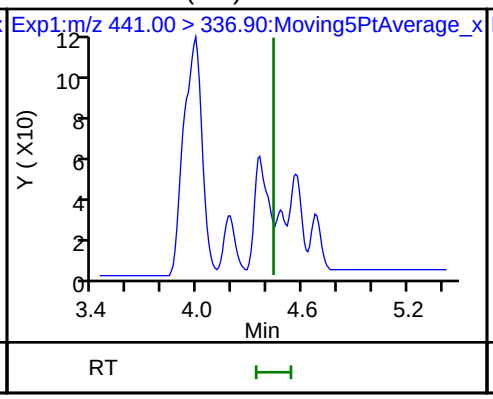
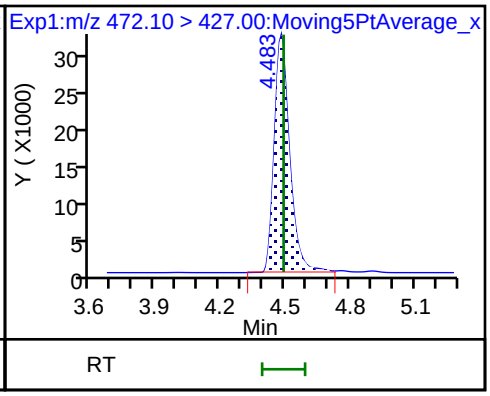
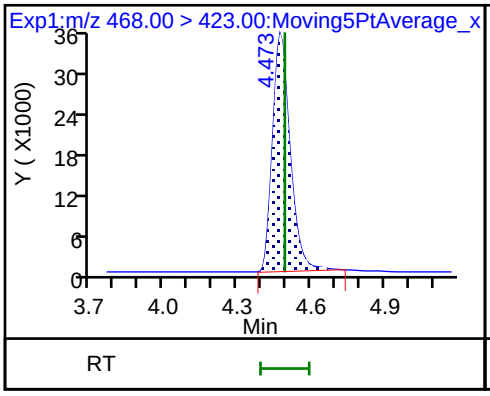


D 38 13C9 PFNA



* 37 13C5 PFNA



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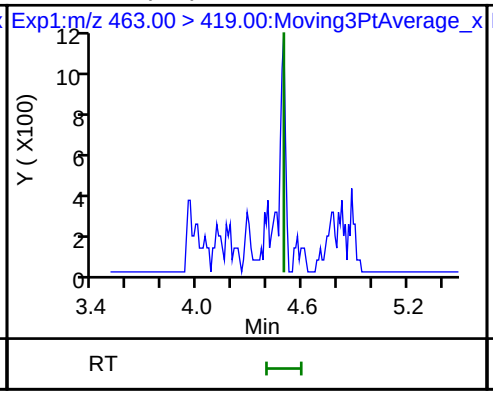

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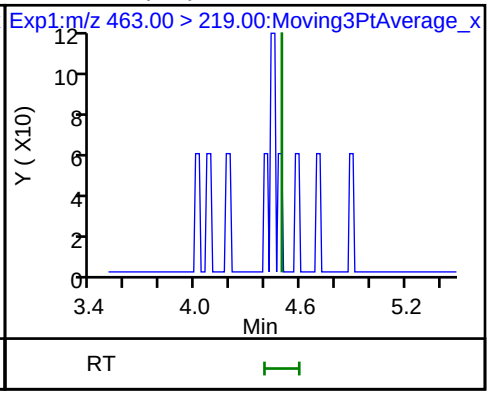
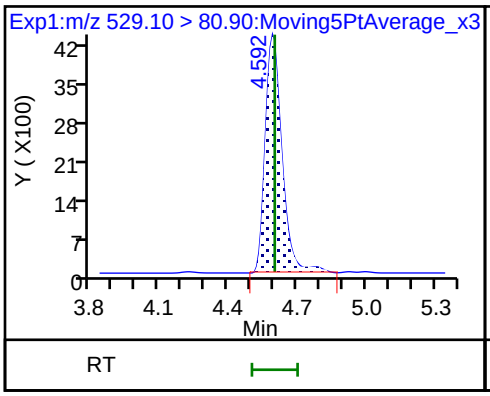
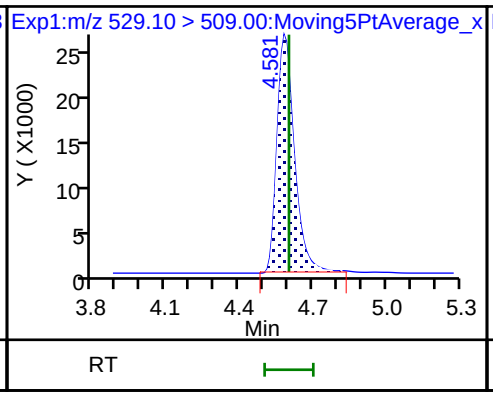


D 41 13C2-8:2FTS



D 41 13C2-8:2FTS



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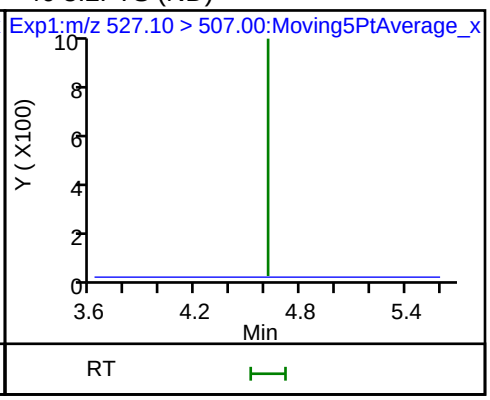

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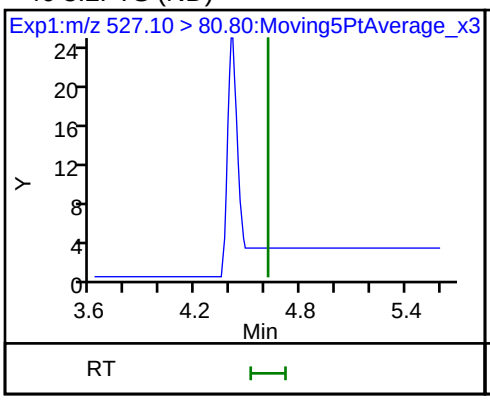

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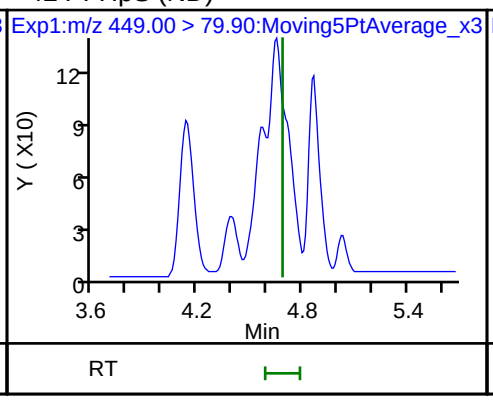

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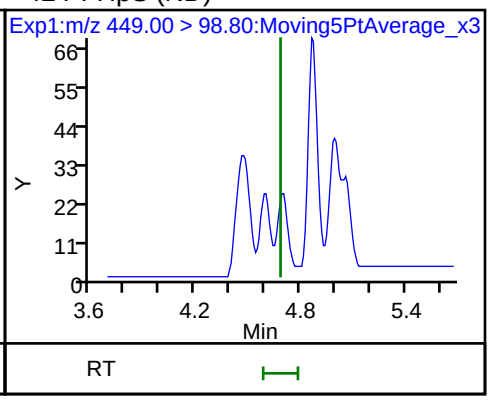
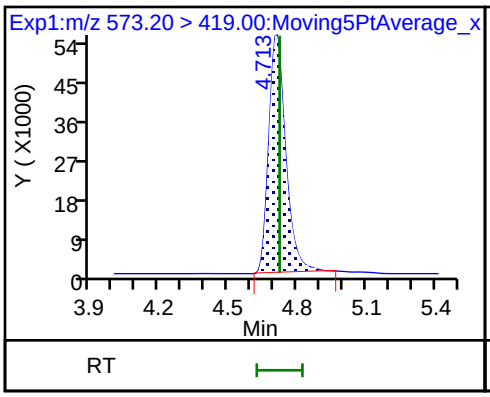
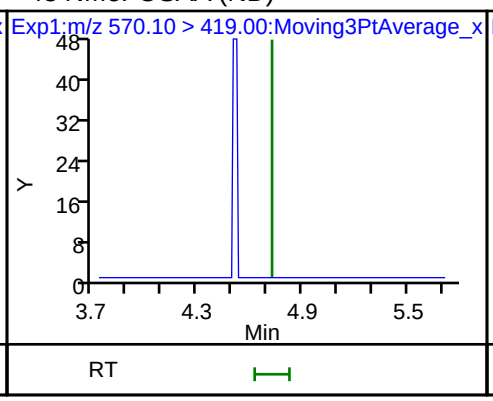


D 44 d3-NMeFOSAA



43 NMeFOSAA (ND)



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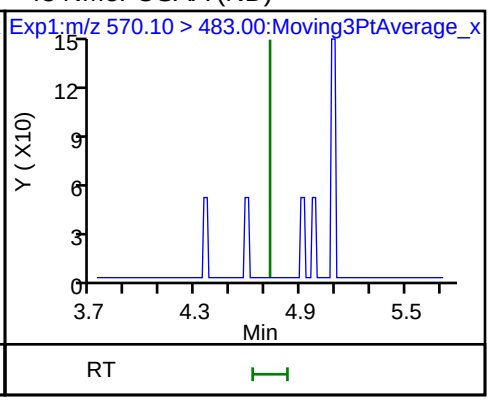
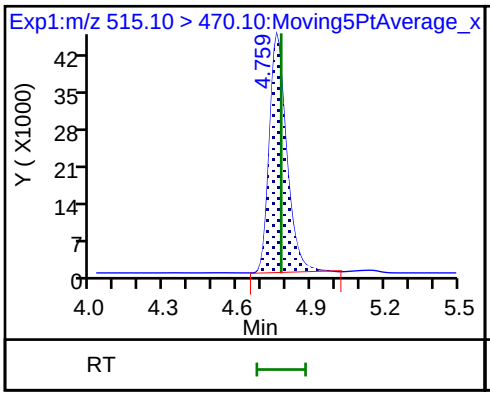
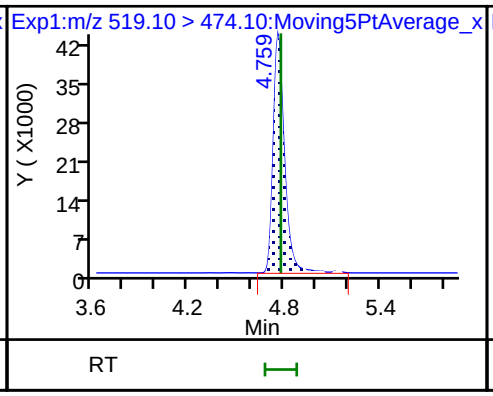


* 46 13C2 PFDA



D 47 13C6 PFDA



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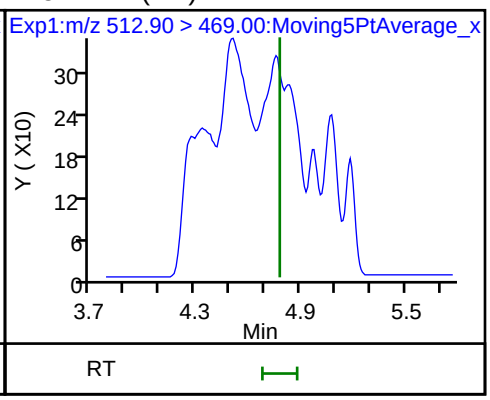

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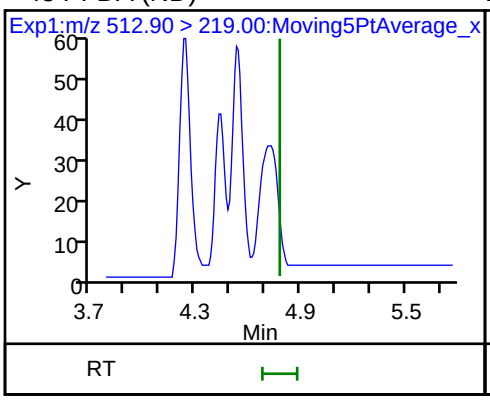
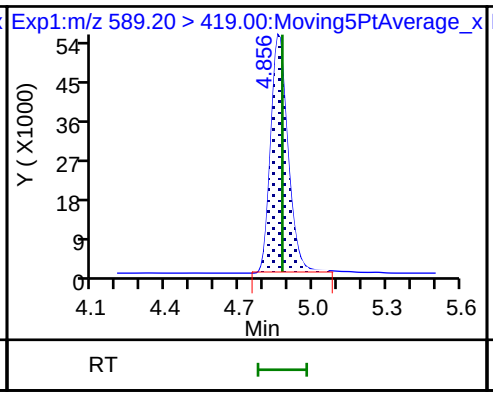


D 49 d5-NEtFOSAA



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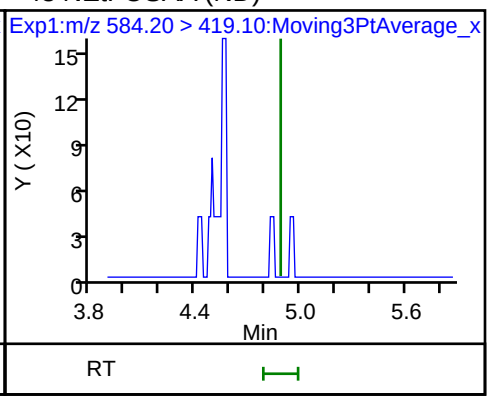
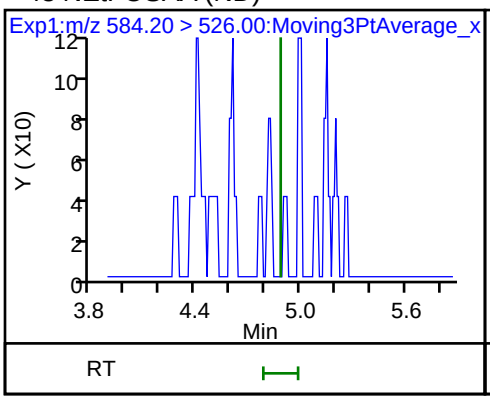
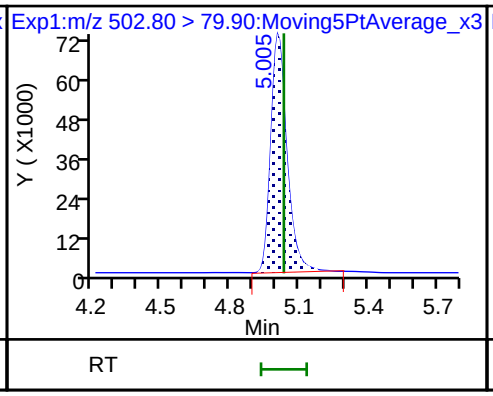


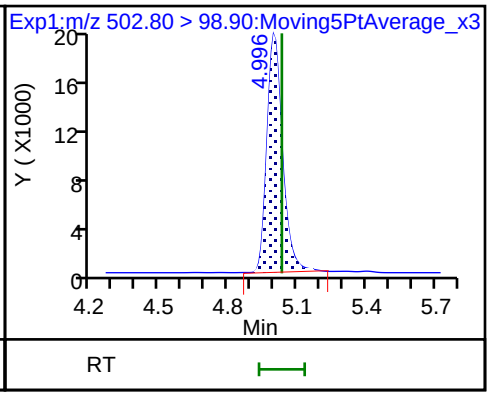
48 NEtFOSAA (ND)



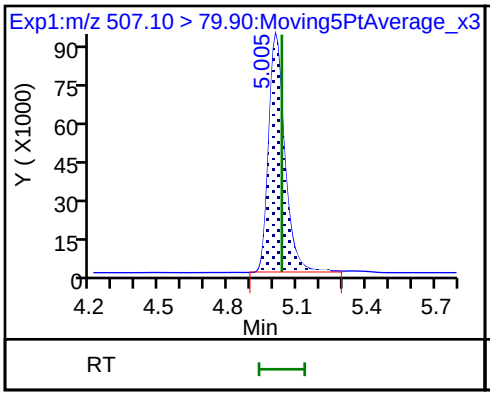
* 52 13C4 PFOS



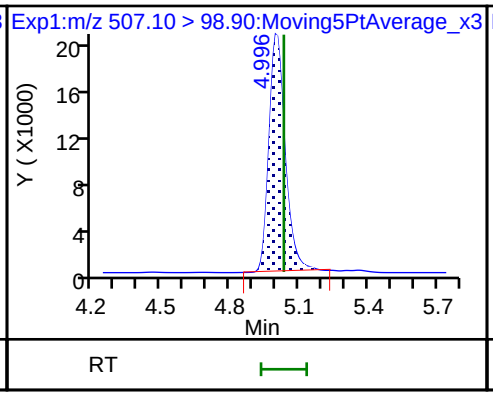
* 52 13C4 PFOS



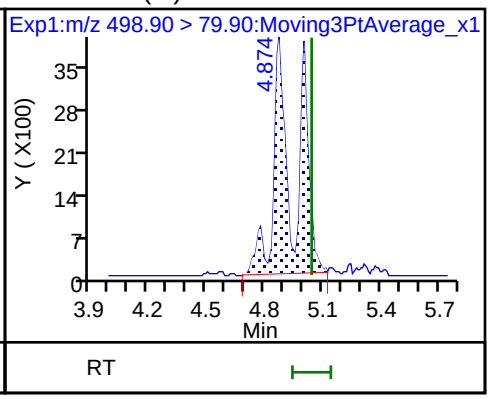
D 51 13C8 PFOS



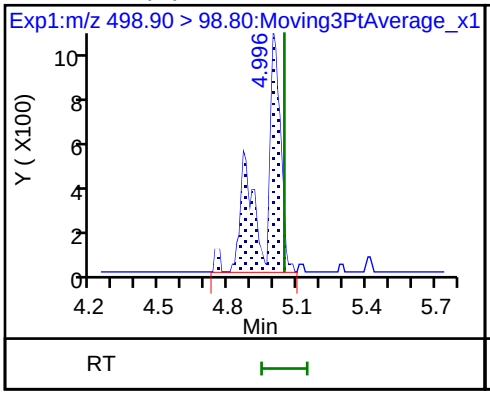
D 51 13C8 PFOS



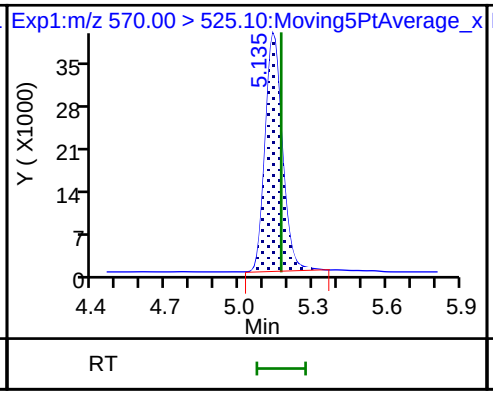
50 PFOS (M)



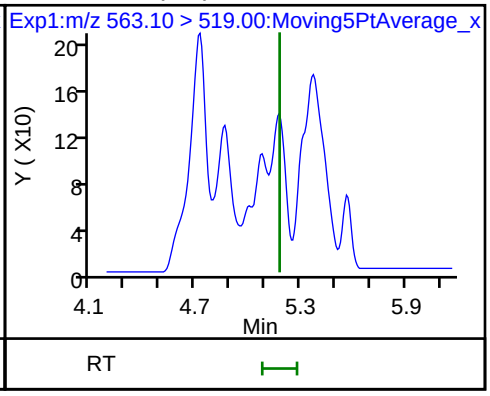
50 PFOS (M)



D 54 13C7 PFUnA



53 PFUnA (ND)



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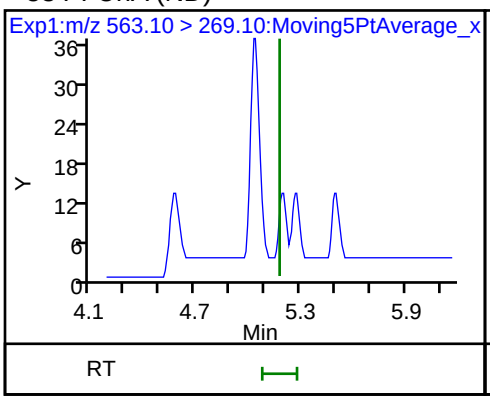
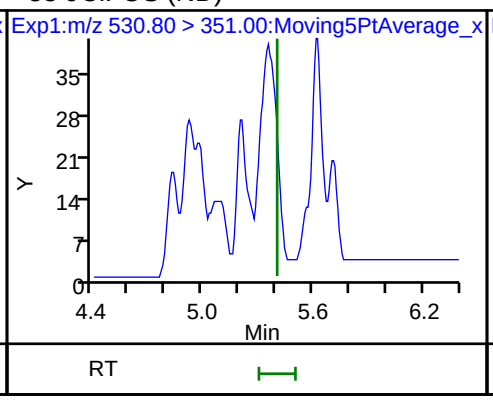


55 9ClFOS (ND)



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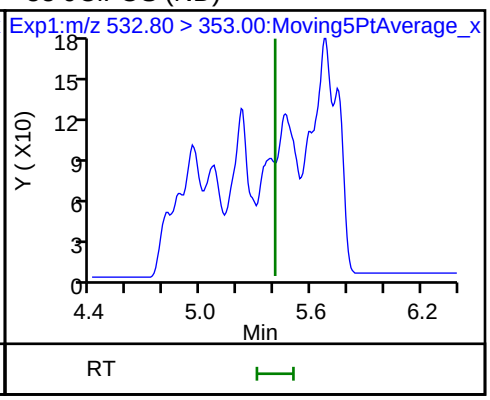
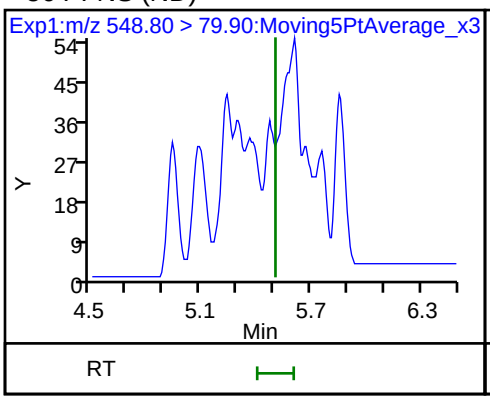
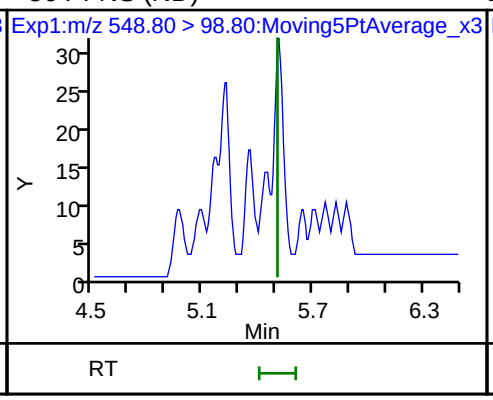


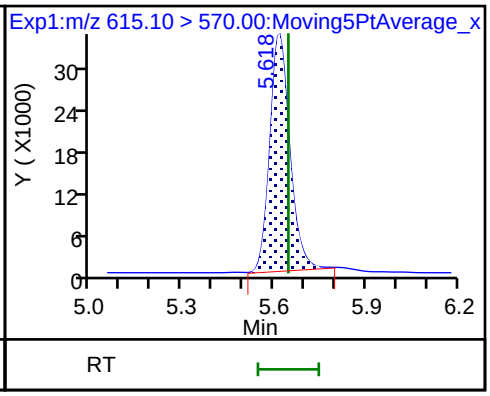
56 PFNS (ND)



56 PFNS (ND)



D 58 PFDoDA



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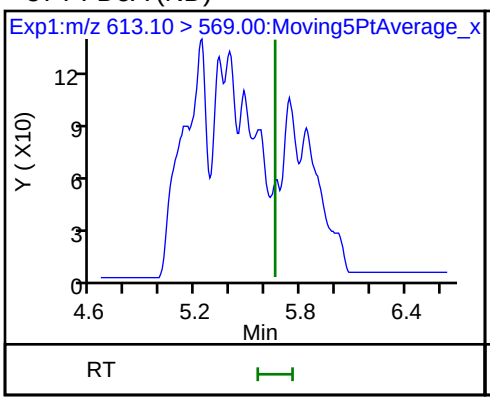
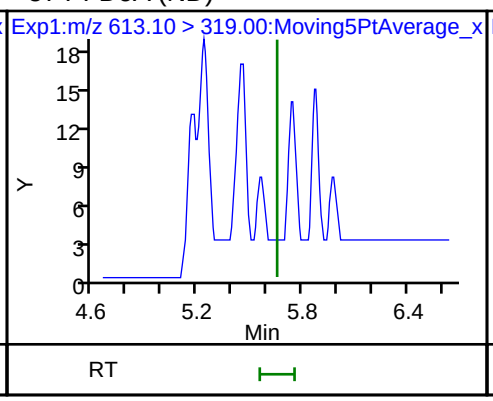
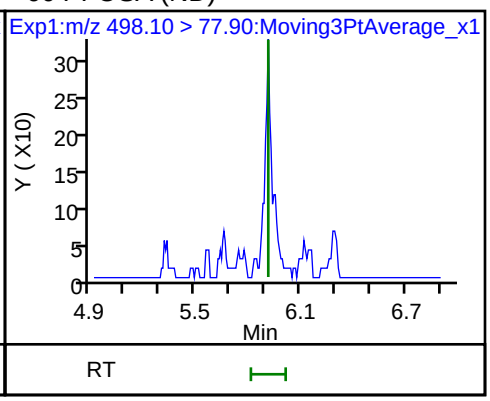


57 PFDoA (ND)



60 PFOSA (ND)



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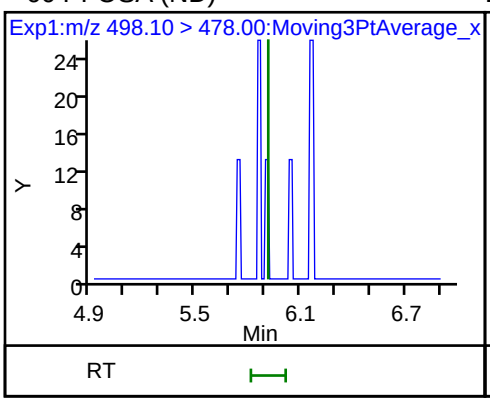
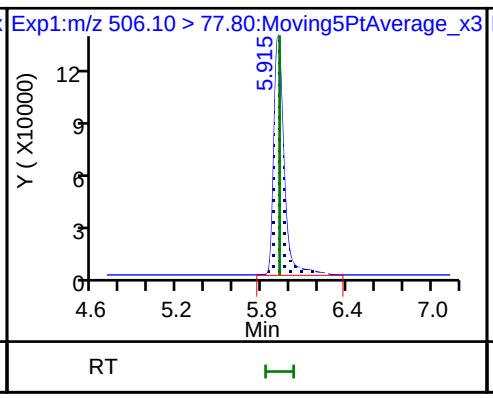
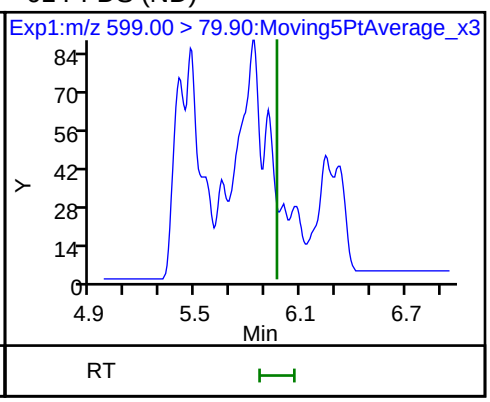


D 59 13C8 FOSA



61 PFDS (ND)



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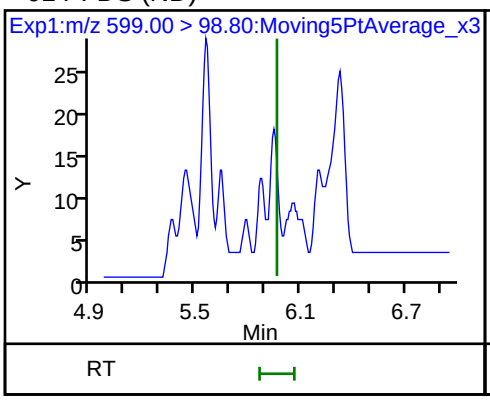

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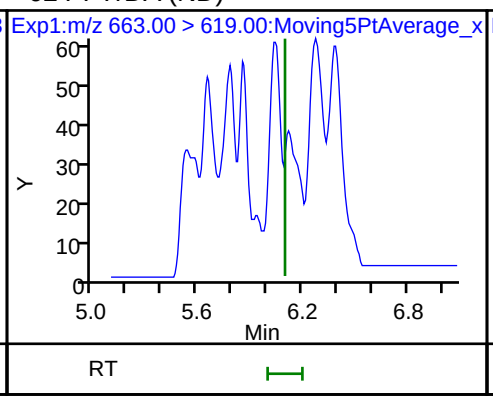
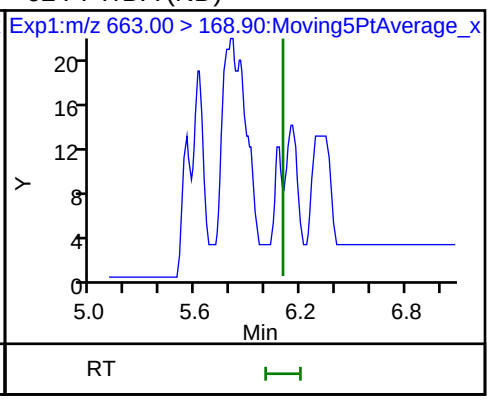
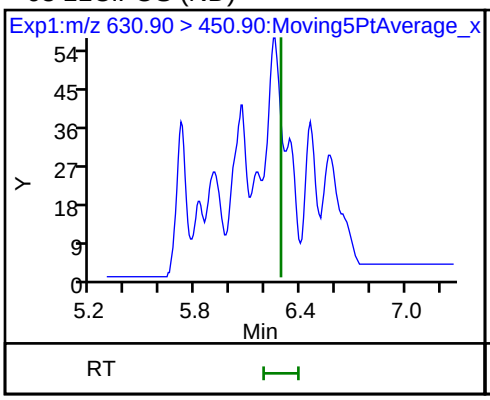


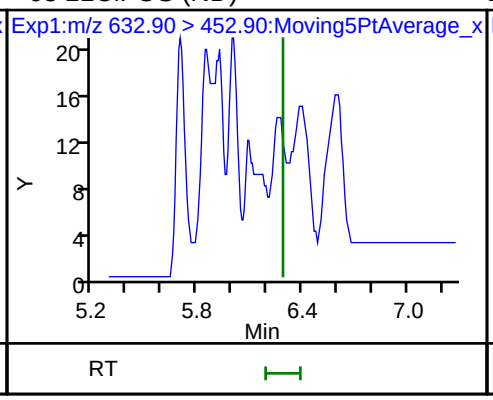
62 PFTrDA (ND)



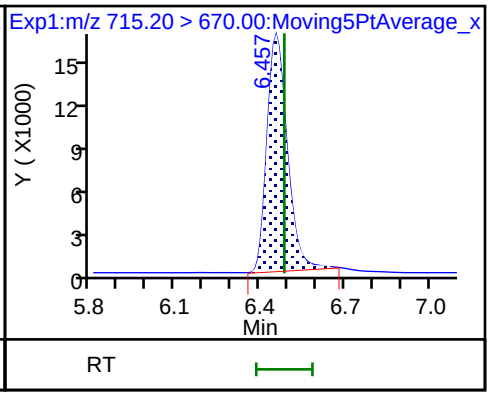
63 11ClFOS (ND)



63 11ClFOS (ND)



D 65 13C2 PFTeDA



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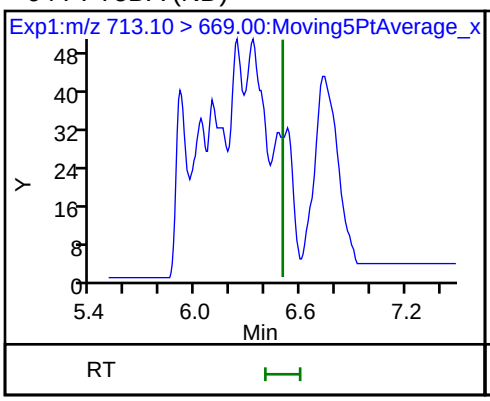

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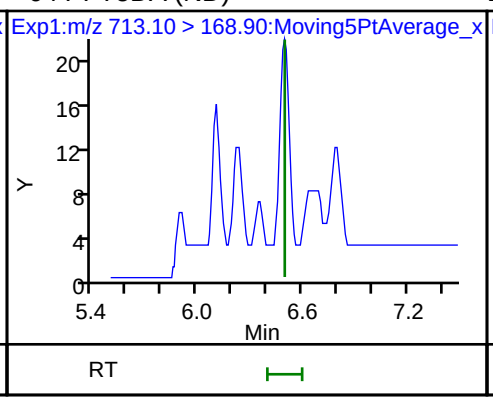
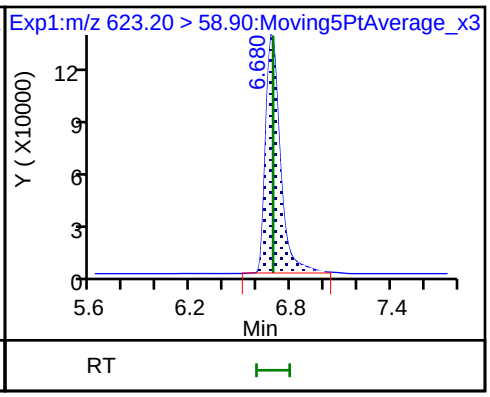
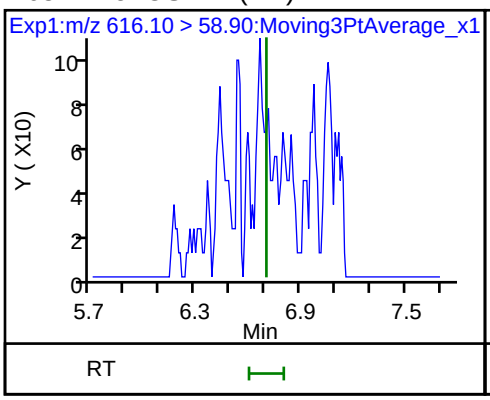


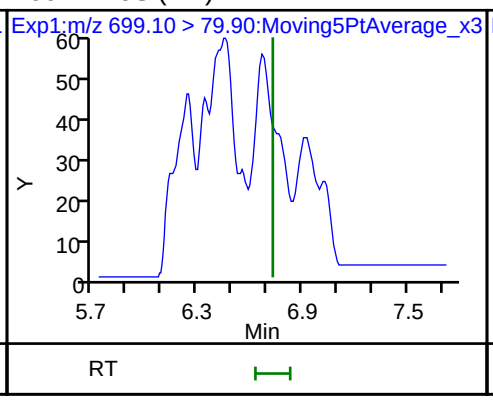
D 67 d7-N-Me-FOSE



68 N-MeFOSE-M (ND)



66 PFDoS (ND)



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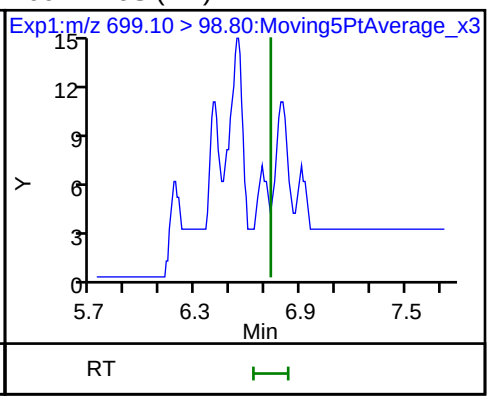
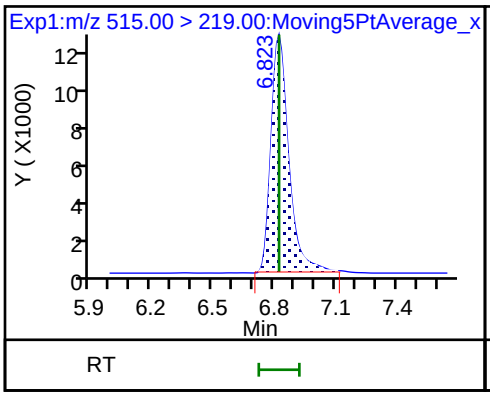
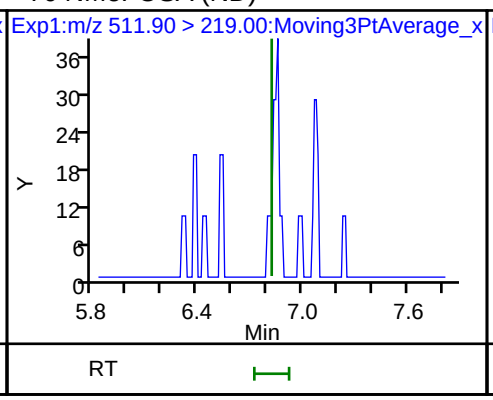


D 69 d3-NMePFOSA



70 NMeFOSA (ND)



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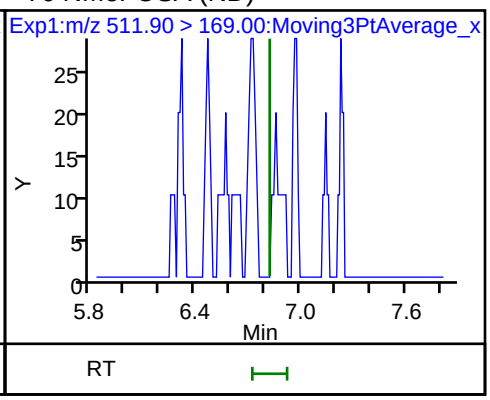
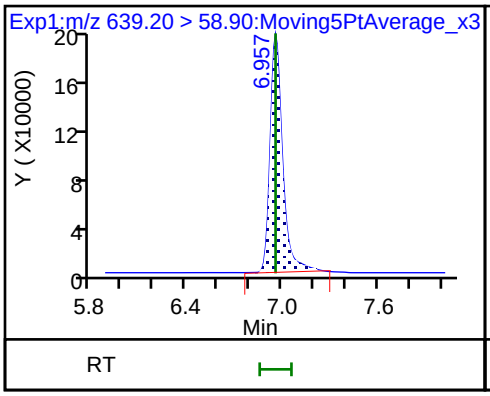
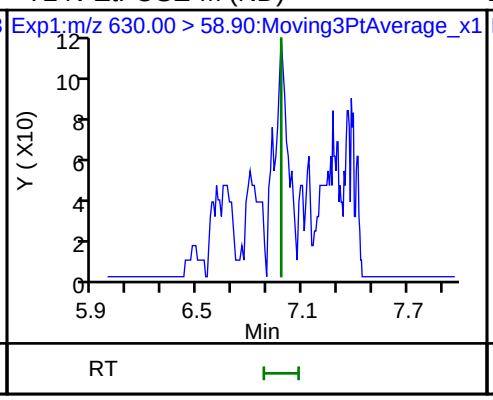


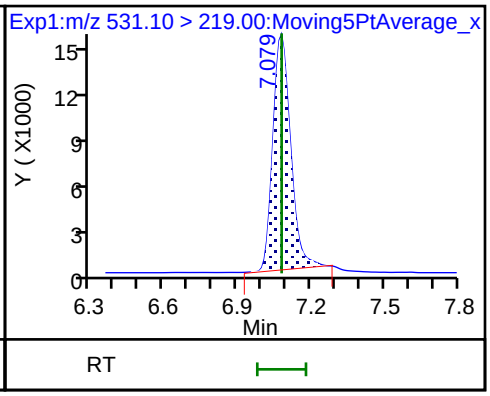
D 71 d9-N-EtFOSE



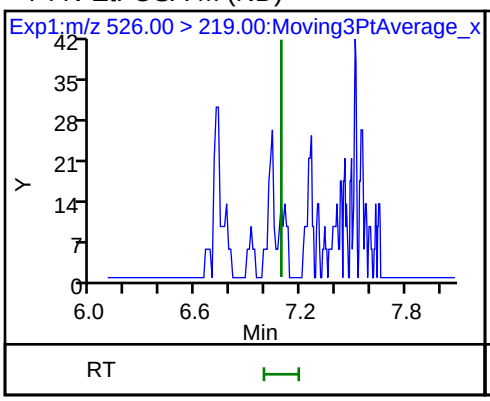
72 N-EtFOSE-M (ND)



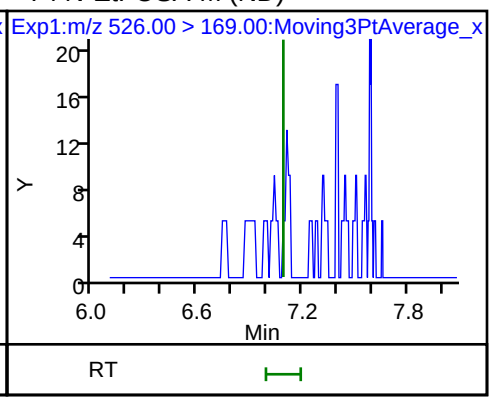
D 73 d5-NEtPFOSA



74 N-EtFOSA-M (ND)



74 N-EtFOSA-M (ND)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

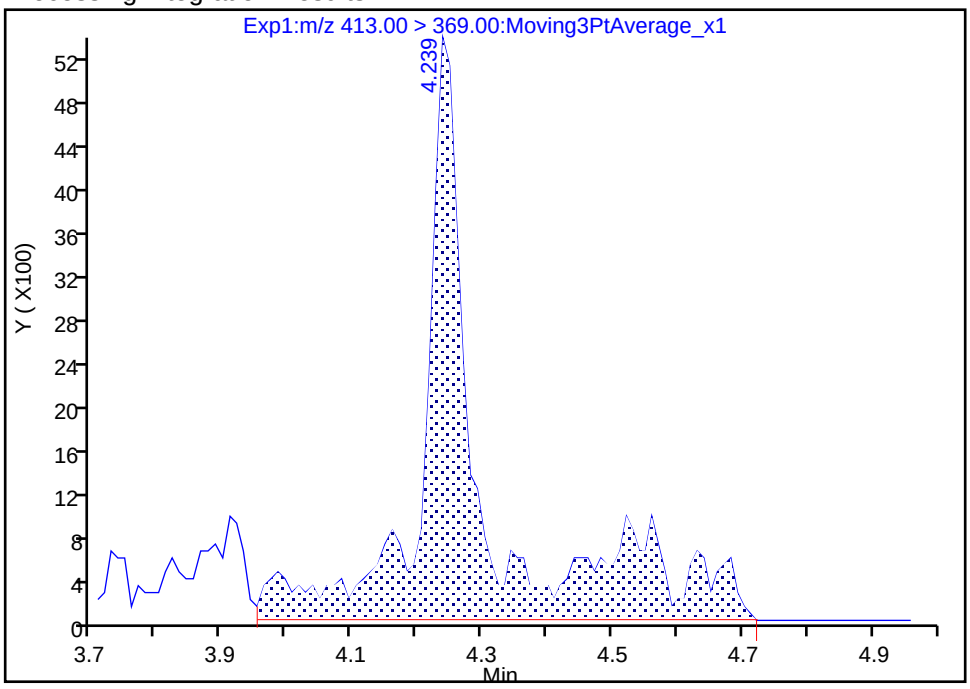
Data File:	\\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-61.d				
Injection Date:	08-Aug-2023 23:37:35	Instrument ID:	30729		
Lims ID:	460-282979-A-2-A	Lab Sample ID:	410-282979-2		
Client ID:	AD38758-004				
Operator ID:	US19_USR_INS20263	ALS Bottle#:	44	Worklist Smp#:	56
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

32 PFOA, CAS: 335-67-1

Signal: 1

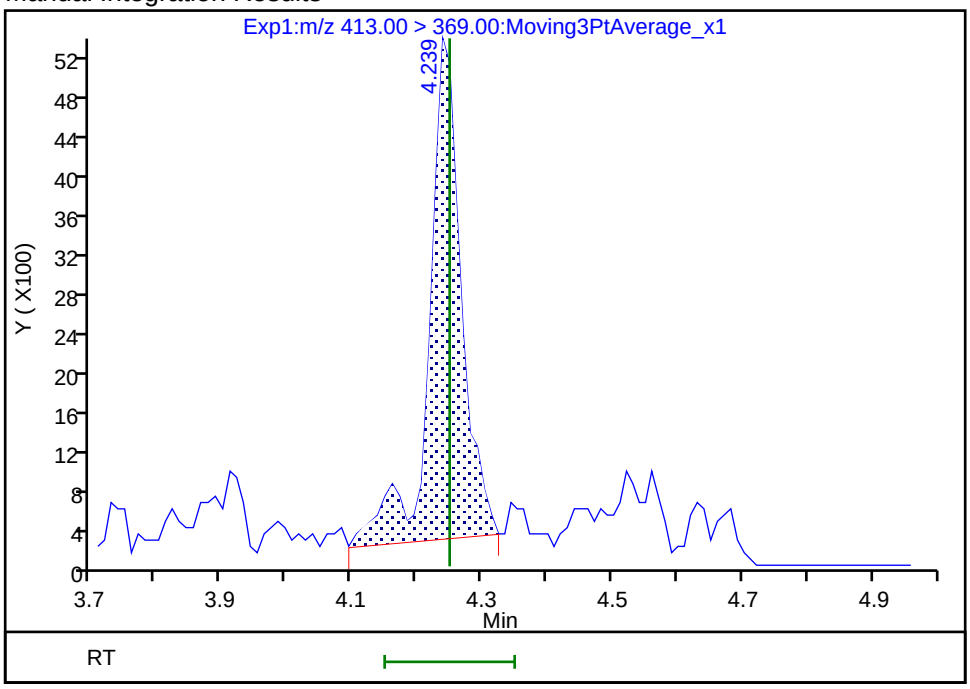
Processing Integration Results

RT: 4.24
Area: 34791
Amount: 0.284920
Amount Units: ng/ml



Manual Integration Results

RT: 4.24
Area: 17486
Amount: 0.143201
Amount Units: ng/ml



Reviewer: QY4X, 09-Aug-2023 09:59:14 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

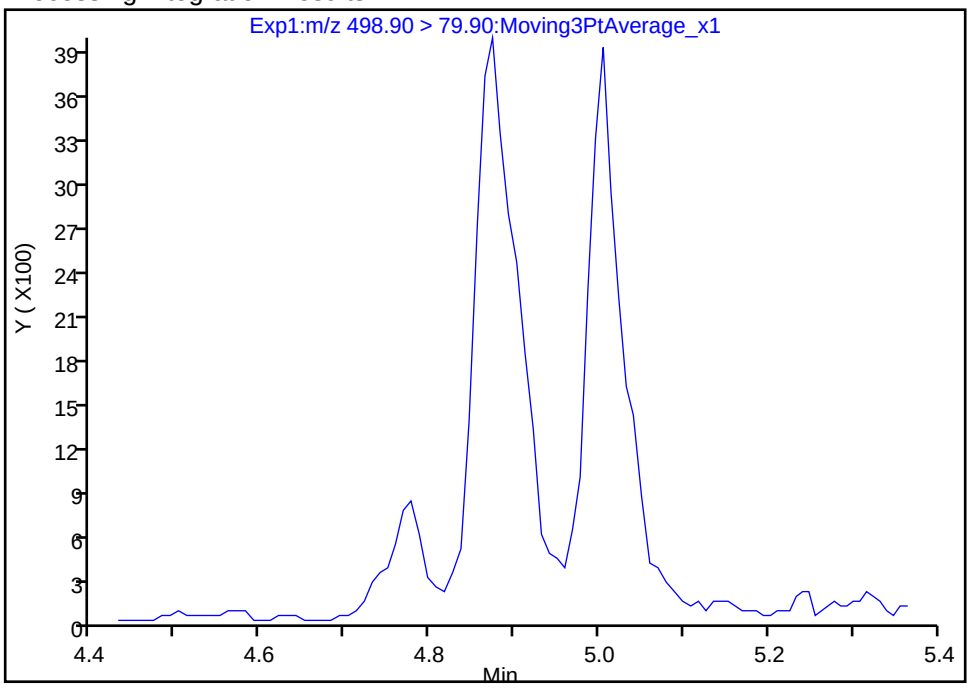
Data File:	\\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-61.d				
Injection Date:	08-Aug-2023 23:37:35	Instrument ID:	30729		
Lims ID:	460-282979-A-2-A	Lab Sample ID:	410-282979-2		
Client ID:	AD38758-004				
Operator ID:	US19_USR_INS20263	ALS Bottle#:	44	Worklist Smp#:	56
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

50 PFOS, CAS: 1763-23-1

Signal: 1

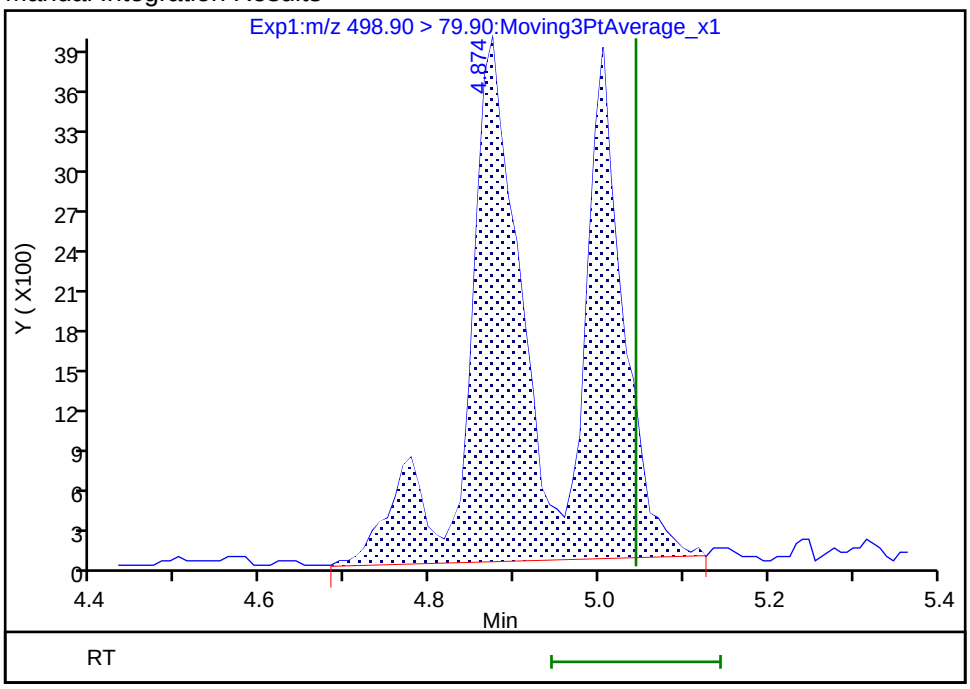
Not Detected
Expected RT: 5.04

Processing Integration Results



Manual Integration Results

RT: 4.87
Area: 28001
Amount: 0.160144
Amount Units: ng/ml



Reviewer: QY4X, 09-Aug-2023 09:59:36 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

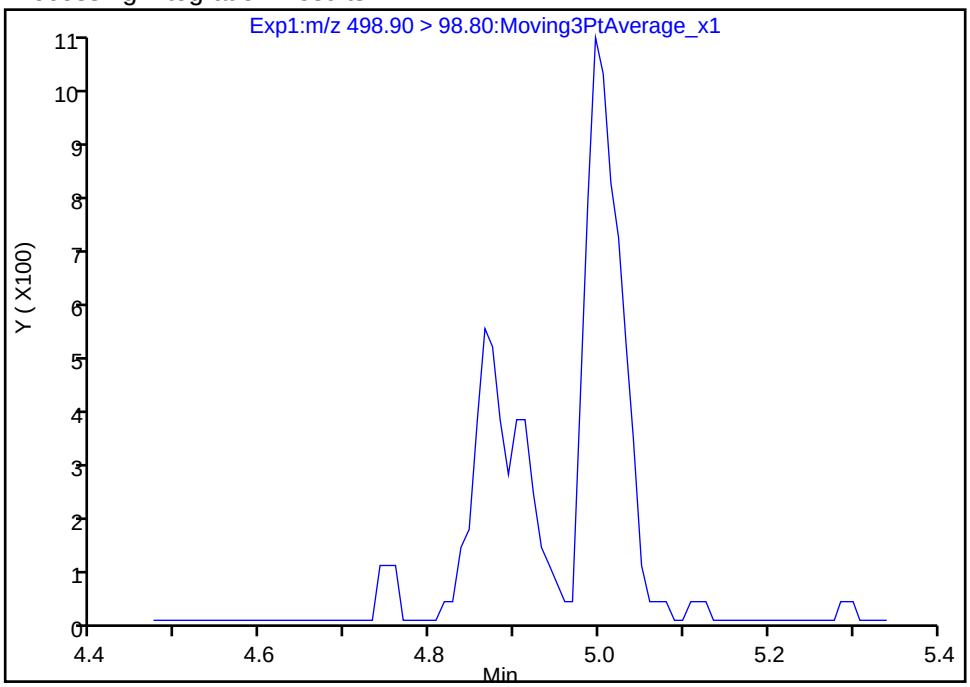
Data File:	\\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-61.d				
Injection Date:	08-Aug-2023 23:37:35	Instrument ID:	30729		
Lims ID:	460-282979-A-2-A	Lab Sample ID:	410-282979-2		
Client ID:	AD38758-004				
Operator ID:	US19_USR_INS20263	ALS Bottle#:	44	Worklist Smp#:	56
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

50 PFOS, CAS: 1763-23-1

Signal: 2

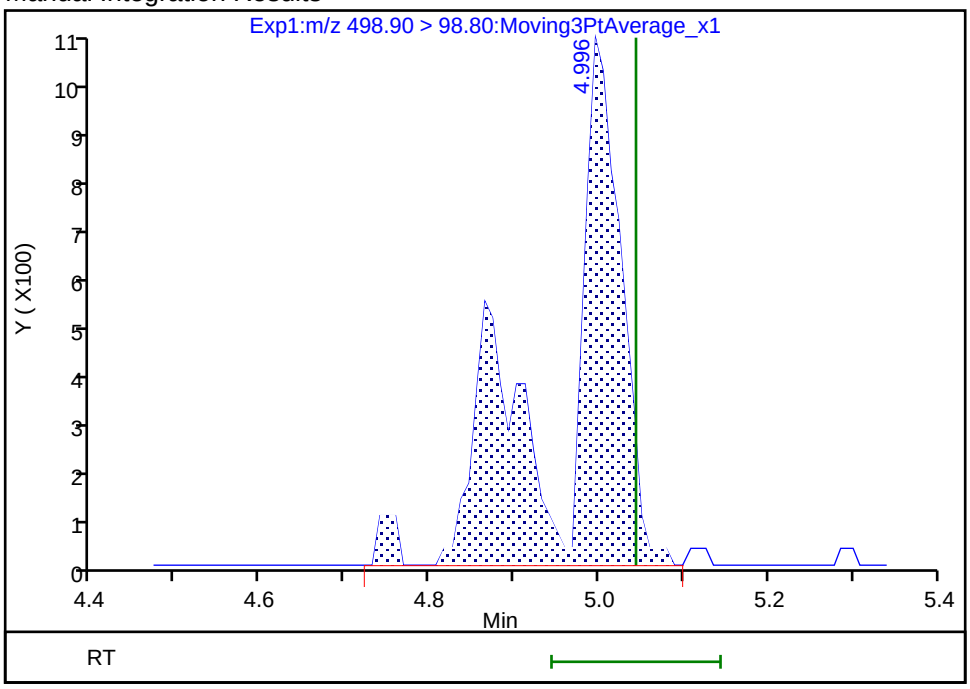
Not Detected
Expected RT: 5.04

Processing Integration Results



Manual Integration Results

RT: 5.00
Area: 5246
Amount: 0.160144
Amount Units: ng/ml



Reviewer: QY4X, 09-Aug-2023 09:59:43 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

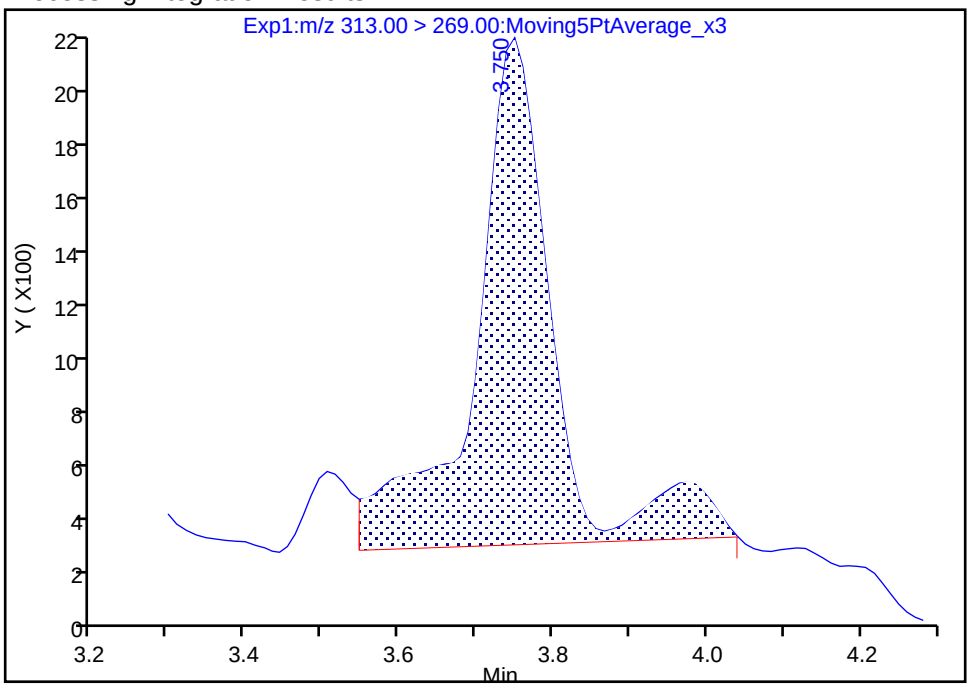
Data File:	\\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-61.d				
Injection Date:	08-Aug-2023 23:37:35	Instrument ID:	30729		
Lims ID:	460-282979-A-2-A	Lab Sample ID:	410-282979-2		
Client ID:	AD38758-004				
Operator ID:	US19_USR_INS20263	ALS Bottle#:	44	Worklist Smp#:	56
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

13 PFHxA, CAS: 307-24-4

Signal: 1

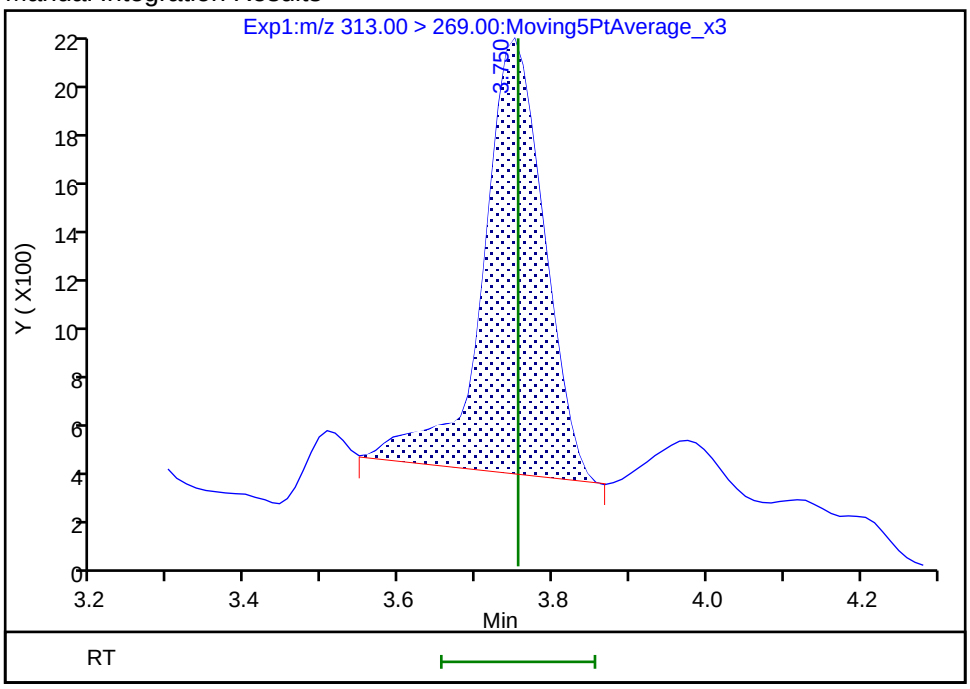
Processing Integration Results

RT: 3.75
Area: 13280
Amount: 0.152792
Amount Units: ng/ml



Manual Integration Results

RT: 3.75
Area: 9929
Amount: 0.114237
Amount Units: ng/ml



Reviewer: QY4X, 09-Aug-2023 09:58:58 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

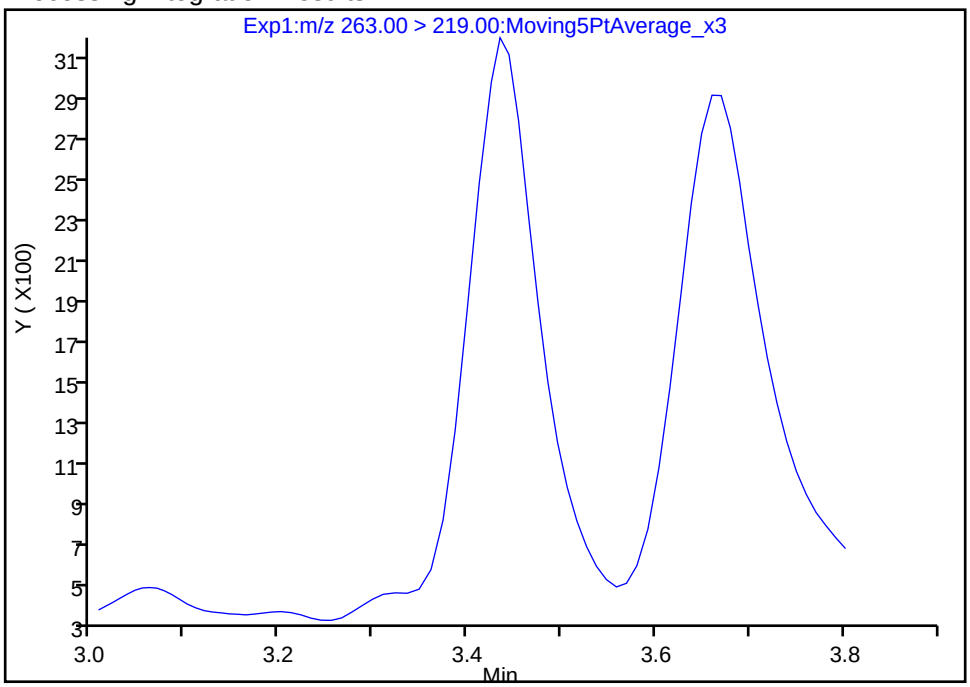
Data File:	\\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-61.d				
Injection Date:	08-Aug-2023 23:37:35	Instrument ID:	30729		
Lims ID:	460-282979-A-2-A	Lab Sample ID:	410-282979-2		
Client ID:	AD38758-004				
Operator ID:	US19_USR_INS20263	ALS Bottle#:	44	Worklist Smp#:	56
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

6 PFPA, CAS: 2706-90-3

Signal: 1

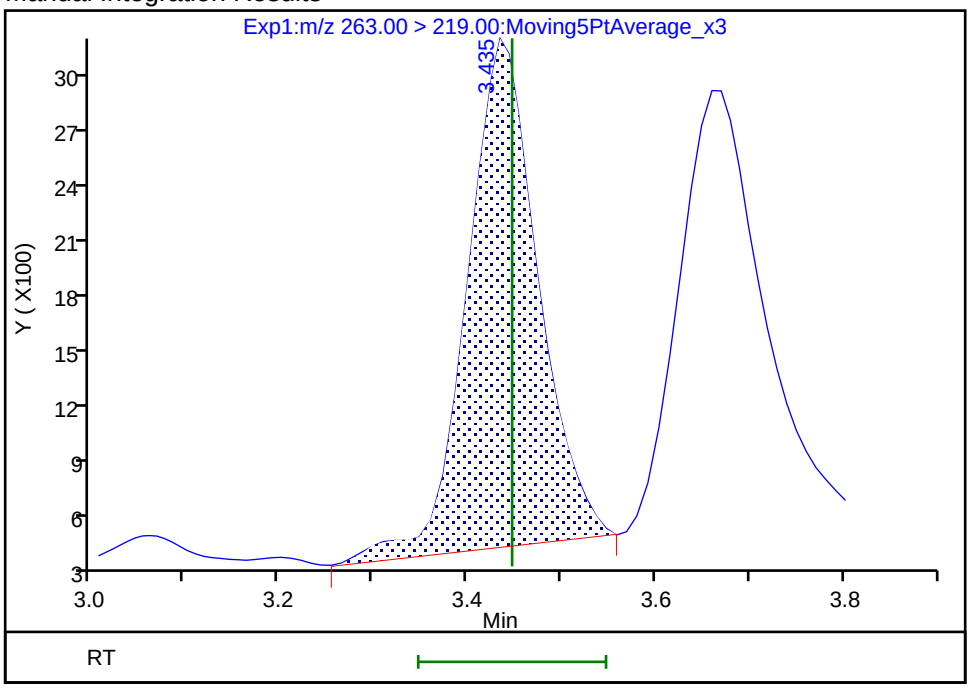
Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.43
Area: 14468
Amount: 0.102735
Amount Units: ng/ml



Reviewer: QY4X, 09-Aug-2023 09:58:48 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: AD38758-005 Lab Sample ID: 460-282979-3

Matrix: Water Lab File ID: 23AUG08-62.d

Analysis Method: 1633 Date Collected: 06/22/2023 14:00

Extraction Method: 1633 Date Extracted: 07/17/2023 07:22

Sample wt/vol: 257.7(mL) Date Analyzed: 08/08/2023 23:50

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.94	U	15.5	1.94
355-46-4	Perfluorohexanesulfonic acid	1.11	U	3.88	1.11
2058-94-8	Perfluoroundecanoic acid	0.97	U	3.88	0.97
335-67-1	Perfluorooctanoic acid	1.24	U	3.88	1.24
335-77-3	Perfluorodecanesulfonic acid	0.97	U	3.88	0.97
376-06-7	Perfluorotetradecanoic acid	0.97	U	3.88	0.97
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.91	U	15.5	2.91
31506-32-8	NMeFOSA	0.97	U	3.88	0.97
812-70-4	7:3 FTCA	19.4	U	97.0	19.4
335-76-2	Perfluorodecanoic acid	0.97	U	3.88	0.97
72629-94-8	Perfluorotridecanoic acid	0.97	U	3.88	0.97
113507-82-7	PFEESA	0.97	U	7.76	0.97
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	0.97	U	3.88	0.97
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	3.30	U	15.5	3.30
375-95-1	Perfluorononanoic acid	0.97	U	3.88	0.97
13252-13-6	HFPO-DA	3.88	U	15.5	3.88
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	9.70	U	38.8	9.70
2706-91-4	Perfluoropentanesulfonic acid	0.97	U	3.88	0.97
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	4.85	U	15.5	4.85
68259-12-1	Perfluorononanesulfonic acid	0.78	U	3.88	0.78
375-85-9	Perfluoroheptanoic acid	1.01	U	3.88	1.01
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	3.88	U	15.5	3.88
1763-23-1	Perfluorooctanesulfonic acid	0.97	U	3.88	0.97
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	5.04	U	15.5	5.04
377-73-1	Perfluoro-3-methoxypropanoic acid	0.97	U	7.76	0.97
375-22-4	Perfluorobutanoic acid	3.88	U	15.5	3.88
2991-50-6	NEtFOSAA	1.36	U	3.88	1.36

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: AD38758-005 Lab Sample ID: 460-282979-3

Matrix: Water Lab File ID: 23AUG08-62.d

Analysis Method: 1633 Date Collected: 06/22/2023 14:00

Extraction Method: 1633 Date Extracted: 07/17/2023 07:22

Sample wt/vol: 257.7(mL) Date Analyzed: 08/08/2023 23:50

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-55-1	Perfluorododecanoic acid	0.97	U	3.88	0.97
307-24-4	Perfluorohexanoic acid	0.97	U	3.88	0.97
863090-89-5	Perfluoro(4-methoxybutanoic acid)	1.94	U	7.76	1.94
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	1.94	U	7.76	1.94
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1.75	U	3.88	1.75
2706-90-3	Perfluoropentanoic acid	1.94	U	7.76	1.94
914637-49-3	5:3 FTCA	19.4	U	97.0	19.4
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	9.70	U	38.8	9.70
754-91-6	Perfluorooctanesulfonamide	0.97	U	3.88	0.97
356-02-5	3:3 FTCA	2.91	U	19.4	2.91
2355-31-9	NMeFOSAA	2.33	U	7.76	2.33
375-73-5	Perfluorobutanesulfonic acid	0.58	U	3.88	0.58
375-92-8	Perfluoroheptanesulfonic acid	0.78	U	3.88	0.78

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: AD38758-005 Lab Sample ID: 460-282979-3

Matrix: Water Lab File ID: 23AUG08-62.d

Analysis Method: 1633 Date Collected: 06/22/2023 14:00

Extraction Method: 1633 Date Extracted: 07/17/2023 07:22

Sample wt/vol: 257.7(mL) Date Analyzed: 08/08/2023 23:50

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	90.0		10-130
STL01893	13C5 PFPeA	92.3		35-150
STL02577	13C5 PFHxA	86.5		55-150
STL01892	13C4 PFHpA	91.2		55-150
STL01052	13C8 PFOA	79.2		60-140
STL02578	13C9 PFNA	101		55-140
STL02579	13C6 PFDA	93.6		50-140
STL02580	13C7 PFUnA	91.0		30-140
STL02703	13C2-PFDoDA	83.9		10-150
STL02116	13C2 PFTeDA	81.7		10-130
STL02337	13C3 PFBS	110		55-150
STL02581	13C3 PFHxS	91.1		55-150
STL01054	13C8 PFOS	88.2		45-140
STL01056	13C8 FOSA	91.2		30-130
STL02118	d3-NMeFOSAA	90.5		45-200
STL02117	d5-NEtFOSAA	87.6		10-200
STL02395	M2-4:2 FTS	117		60-200
STL02279	M2-6:2 FTS	91.8		60-200
STL02280	M2-8:2 FTS	94.8		50-200
STL02255	13C3 HFPO-DA	89.0		25-160
STL02277	d7-N-MeFOSE-M	74.1		10-150
STL02278	d9-N-EtFOSE-M	73.3		10-150
STL02704	d5-NEtPFOSA	46.2		10-130
STL02705	d3-NMePFOSA	45.7		15-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-62.d
Lims ID: 460-282979-A-3-A
Client ID: AD38758-005
Sample Type: Client
Inject. Date: 08-Aug-2023 23:50:40 ALS Bottle#: 45 Worklist Smp#: 57
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 460-282979-A-3-A
Misc. Info.: Plate: 1 Rack: 1 410-0090889-057
Operator ID: US19_USR_INS20263 Instrument ID: 30729

Method: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\PFAS_30729_1633.m
Limit Group: LC - 1633 ICAL
Last Update: 09-Aug-2023 10:01:04 Calib Date: 05-Aug-2023 11:25:28
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-11.d

Column 1 : Det: EXP1
Process Host: CTX1649

First Level Reviewer: QY4X Date: 09-Aug-2023 10:01:04
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4-PFBA										
216.80 > 171.90	2.933	2.932	0.001	1.000	1296925	9.00		90.0	76645	
* 3 13C3PFBA										
216.00 > 172.00	2.933	2.932	0.001		887538	5.00			1747	
D 7 13C5 PFPeA										
268.30 > 223.00	3.445	3.444	0.001	0.918	378709	4.62		92.3	23703	
D 10 13C2-4:2FTS										
329.10 > 80.90	3.639	3.638	0.001	0.828	78982	5.47	Target=0.35	117	3684	
329.10 > 309.00	3.628	3.638	-0.010	0.826	178244		0.44(0.18-0.53)	117	10881	
D 14 13C5 PFHxA										M
318.00 > 273.00	3.752	3.750	0.002	1.000	43165	2.16	Target=15.34	86.5	2835	
318.00 > 120.30	3.741	3.750	-0.009	0.997	2693		16.03(7.67-23.01)	86.5	157	M
* 15 13C2 PFHxA										
315.10 > 270.00	3.752	3.750	0.002		285483	2.50	Target=103.53		18509	
315.10 > 119.40	3.741	3.750	-0.009		2050		139.26(51.76-155.29)		136	
D 18 13C3 PFBS										
302.10 > 79.90	3.858	3.856	0.002	0.878	520753	2.56	Target=6.99	110	32939	
302.10 > 98.90	3.846	3.856	-0.010	0.875	70271		7.41(3.50-10.49)	110	4513	
D 20 13C3 HFPO-DA										
286.90 > 168.90	3.869	3.867	0.002	1.031	1121582	8.90	Target=29.00	89.0	69003	
286.90 > 184.90	3.858	3.867	-0.009	1.028	38917		28.82(14.50-43.50)	89.0	2369	
D 25 13C4 PFHpA										
367.10 > 322.00	4.009	4.018	-0.009	1.069	545938	2.28		91.2	34244	
D 29 13C2-6:2FTS										
429.10 > 80.90	4.119	4.129	-0.010	0.938	32520	4.37	Target=0.12	91.8	1975	
429.10 > 409.00	4.119	4.129	-0.010	0.938	183048		0.18(0.06-0.18)	91.8	10732	
* 30 13C4 PFOA										
417.10 > 172.00	4.252	4.261	-0.009		31227	2.50			1901	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 31 13C8 PFOA										
421.10 > 376.00	4.252	4.261	-0.009	1.000	588049	1.98		79.2	36566	
* 35 18O2 PFHxS										
403.00 > 83.90	4.394	4.401	-0.007		465583	2.37			30789	
D 36 13C3 PFHxS										
402.10 > 79.90	4.403	4.411	-0.008	1.002	477691	2.16	Target=3.90	91.1	31937	
402.10 > 98.80	4.394	4.411	-0.017	1.000	126516		3.78(1.95-5.85)	91.1	8705	
D 38 13C9 PFNA										
472.10 > 427.00	4.484	4.493	-0.009	1.000	162955	1.26		101	10782	
* 37 13C5 PFNA										
468.00 > 423.00	4.484	4.493	-0.009		152696	1.25			7814	
D 41 13C2-8:2FTS										
529.10 > 80.90	4.603	4.601	0.002	1.048	18099	4.55	Target=0.14	94.8	1193	
529.10 > 509.00	4.593	4.601	-0.008	1.045	120530		0.15(0.07-0.21)	94.8	7819	
D 44 d3-NMeFOSAA										
573.20 > 419.00	4.715	4.723	-0.008	0.940	302500	4.52		90.5	12454	
* 46 13C2 PFDA										
515.10 > 470.10	4.761	4.778	-0.017		207447	1.25			10708	
D 47 13C6 PFDA										
519.10 > 474.10	4.761	4.778	-0.017	1.000	195780	1.17		93.6	13295	
D 49 d5-NEtFOSAA										
589.20 > 419.00	4.868	4.874	-0.006	0.970	272465	4.38		87.6	13961	
* 52 13C4 PFOS										
502.80 > 79.90	5.017	5.033	-0.016		322047	2.40	Target=4.18		16145	
502.80 > 98.90	5.008	5.033	-0.025		85438		3.77(2.09-6.27)		5882	
D 51 13C8 PFOS										
507.10 > 79.90	5.017	5.033	-0.016	1.000	404624	2.11	Target=3.96	88.2	20190	
507.10 > 98.90	5.008	5.033	-0.025	0.998	103123		3.92(1.98-5.94)	88.2	5277	
D 54 13C7 PFUnA										
570.00 > 525.10	5.146	5.170	-0.024	1.081	174948	1.14		91.0	8887	
D 58 PFDoDA										
615.10 > 570.00	5.619	5.646	-0.027	1.180	143229	1.05		83.9	7773	
D 59 13C8 FOSA										
506.10 > 77.80	5.916	5.923	-0.007	1.179	640158	2.28		91.2	44016	
D 65 13C2 PFTeDA										
715.20 > 670.00	6.458	6.485	-0.027	1.356	78570	1.02		81.7	5019	
D 67 d7-N-Me-FOSE										
623.20 > 58.90	6.693	6.692	0.001	1.334	855604	18.5		74.1	35300	
D 69 d3-NMePFOSA										
515.00 > 219.00	6.824	6.823	0.001	1.360	62992	1.14		45.7	3613	
D 71 d9-N-EtFOSE										
639.20 > 58.90	6.968	6.957	0.011	1.389	1038513	18.3		73.3	31267	
D 73 d5-NEtPFOSA										
531.10 > 219.00	7.081	7.080	0.001	1.411	68160	1.15		46.2	4442	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_ST_02214	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 09-Aug-2023 10:01:31 Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-62.d

Injection Date: 08-Aug-2023 23:50:40 Instrument ID: 30729

Lims ID: 460-282979-A-3-A Lab Sample ID: 410-282979-3

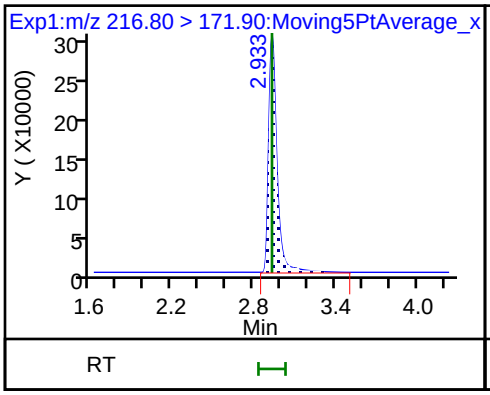
Client ID: AD38758-005

Operator ID: US19_USR_INS20263 ALS Bottle#: 45 Worklist Smp#: 57

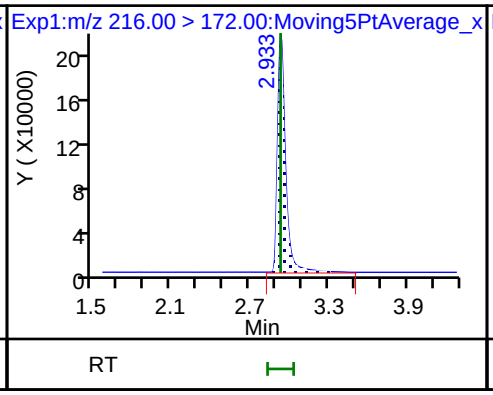
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: PFAS_30729_1633 Limit Group: LC - 1633 ICAL

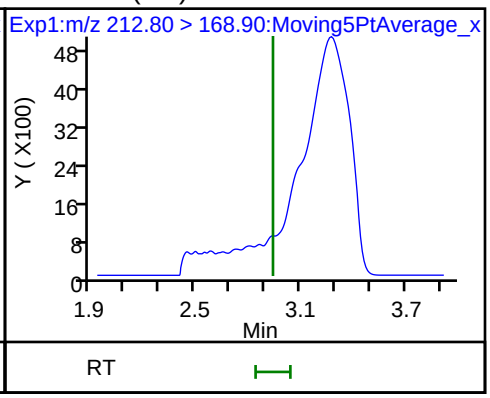
D 2 13C4-PFBA



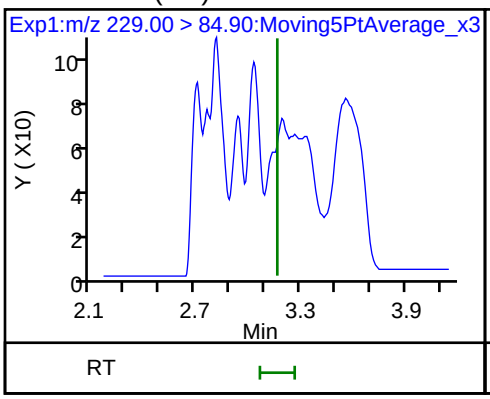
* 3 13C3PFBA



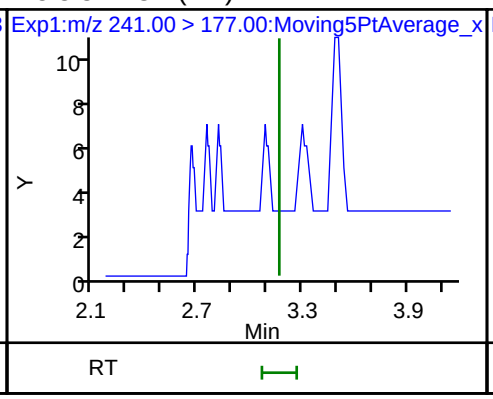
1 PFBA (ND)



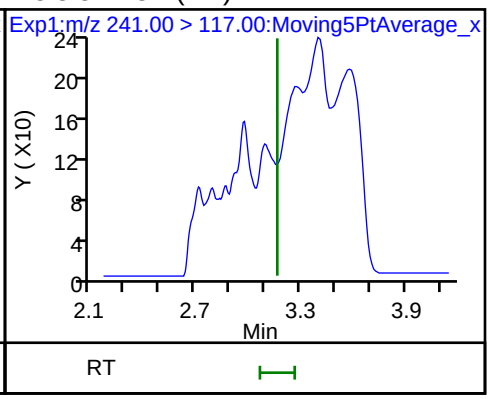
4 PFMPA (ND)



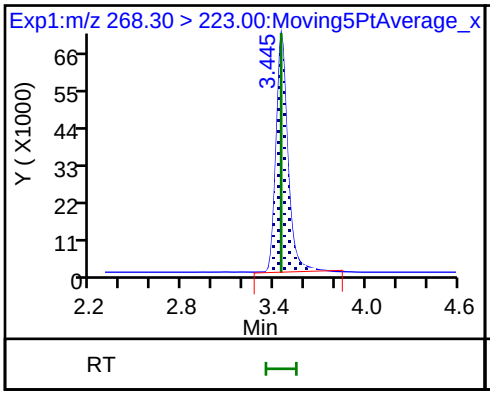
5 3:3 FTCA (ND)



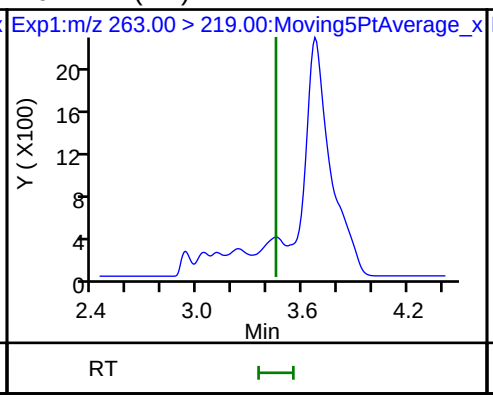
5 3:3 FTCA (ND)



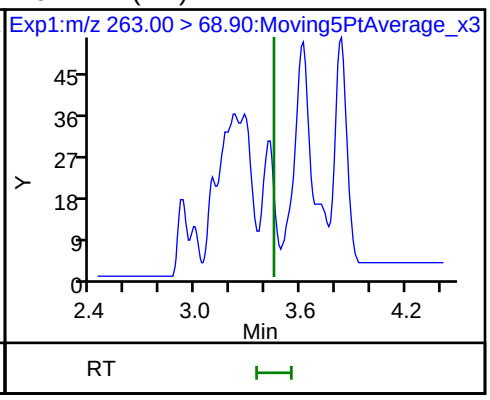
D 7 13C5 PFPeA



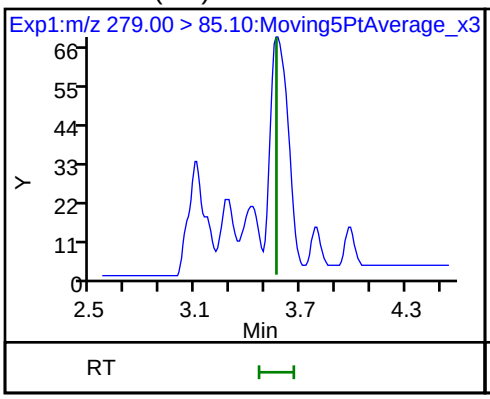
6 PFPA (ND)



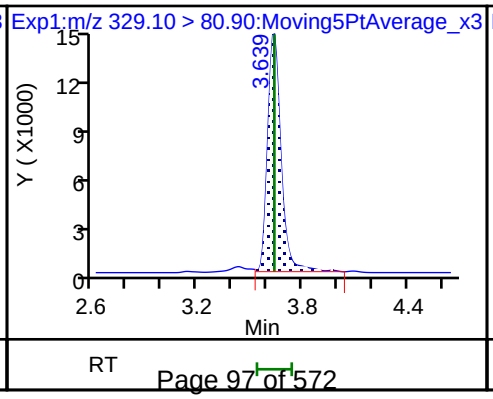
6 PFPA (ND)



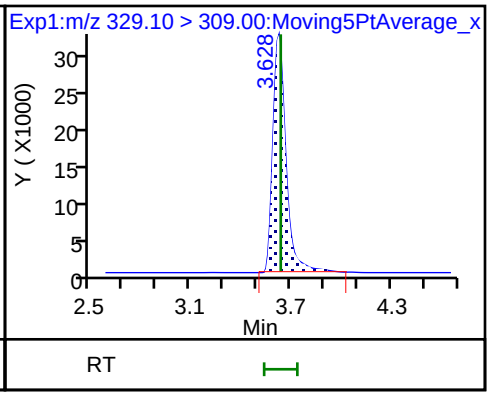
8 PFMBA (ND)



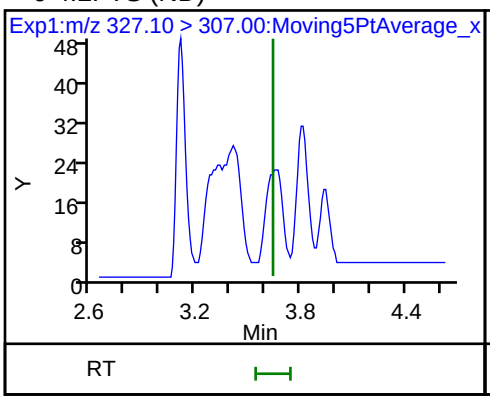
D 10 13C2-4:2FTS



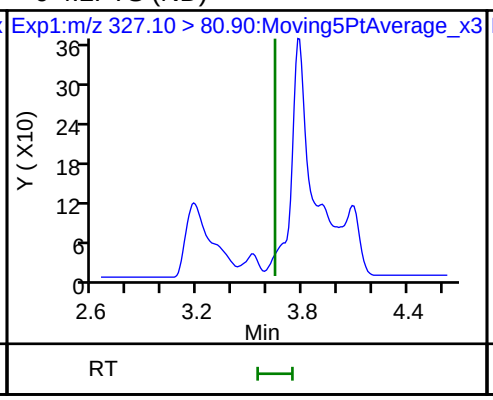
D 10 13C2-4:2FTS



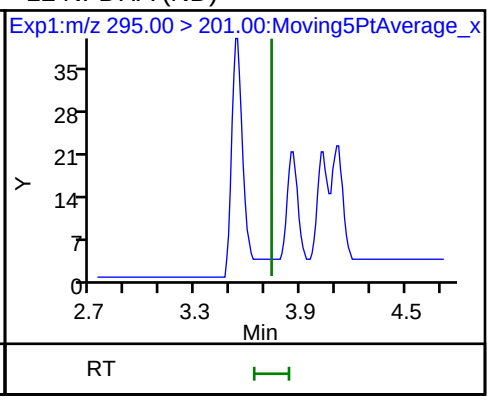
9 4:2FTS (ND)



9 4:2FTS (ND)



12 NFDHA (ND)



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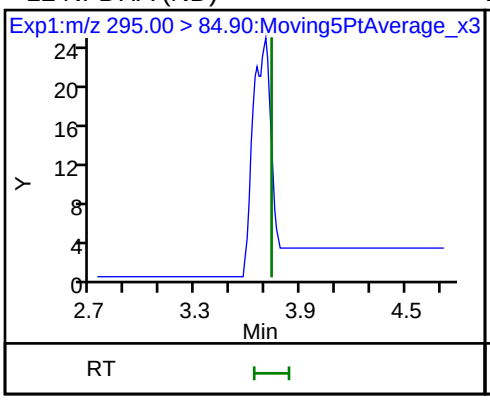
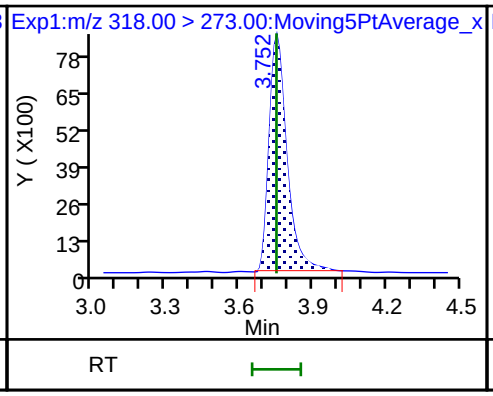
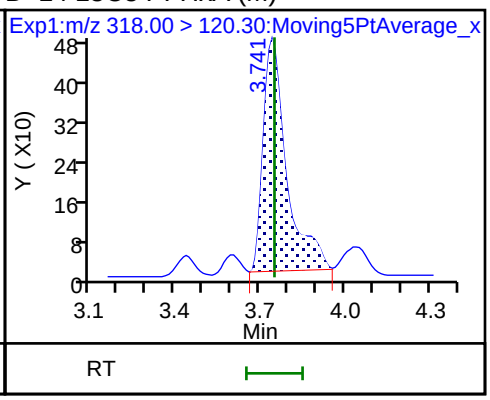


D 14 13C5 PFHxA



D 14 13C5 PFHxA (M)



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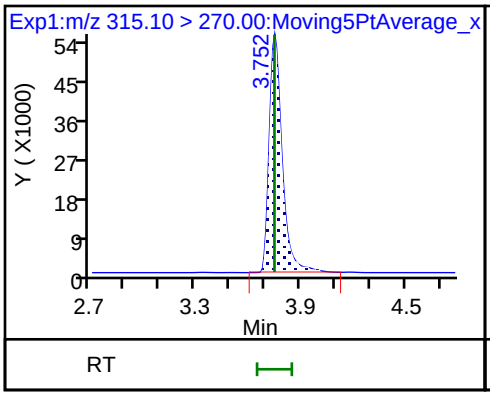
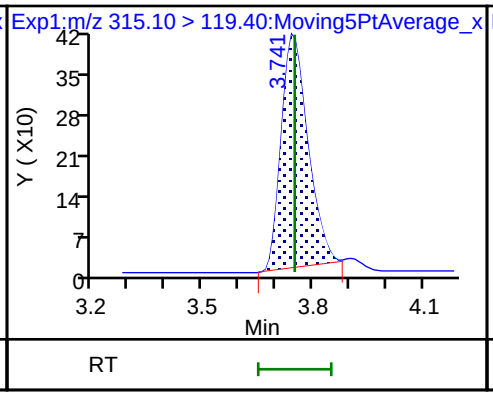


* 15 13C2 PFHxA



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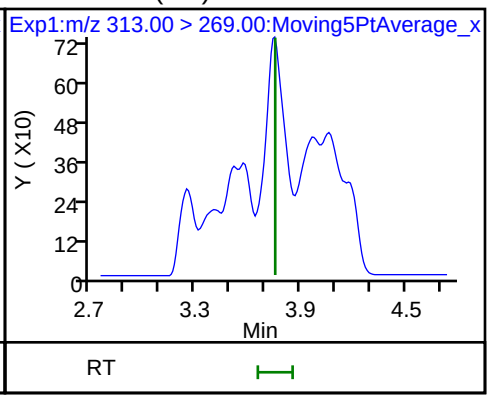
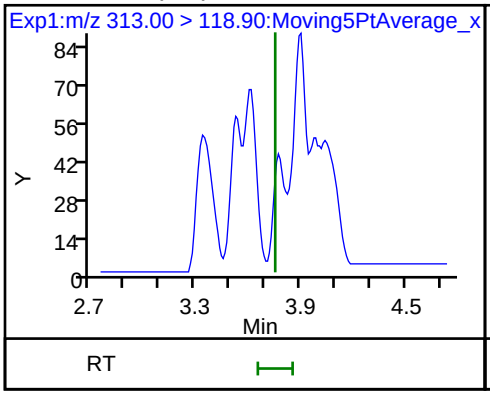
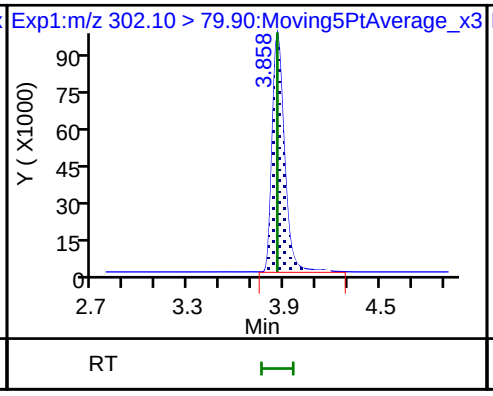


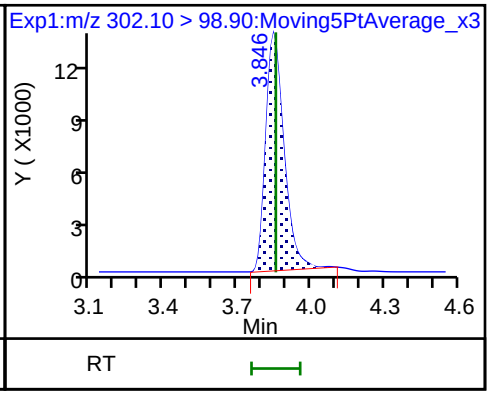
13 PFHxA (ND)



D 18 13C3 PFBS



D 18 13C3 PFBS



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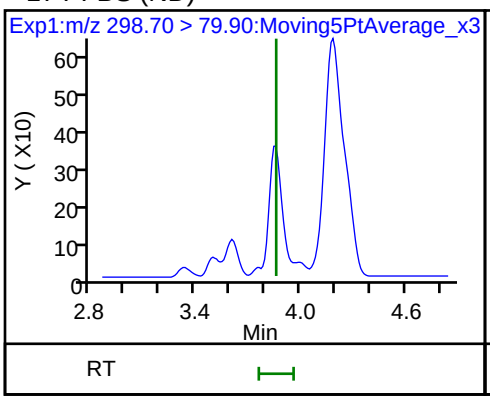

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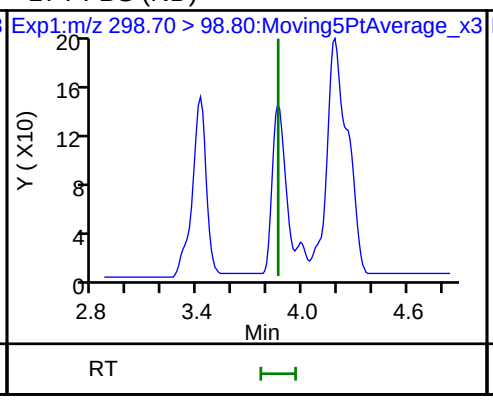
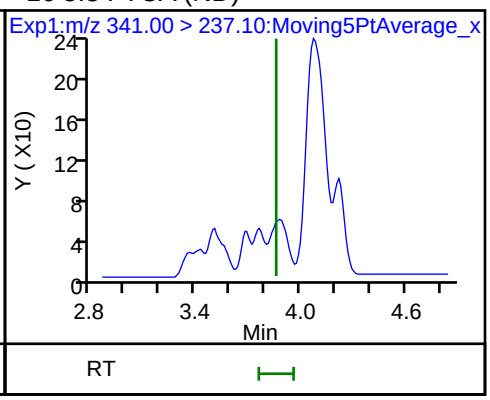


16 5:3 FTCA (ND)



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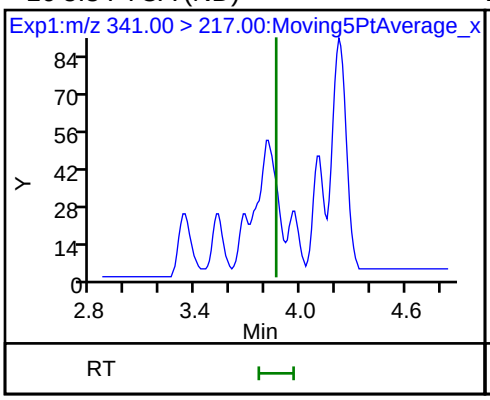
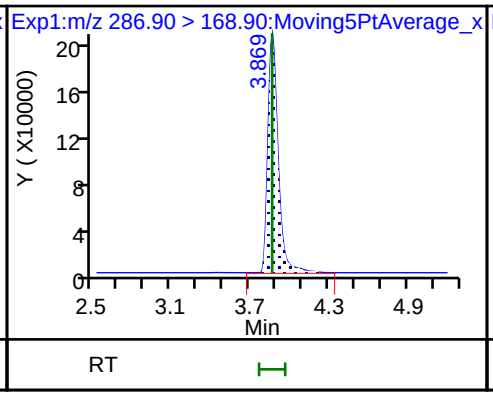
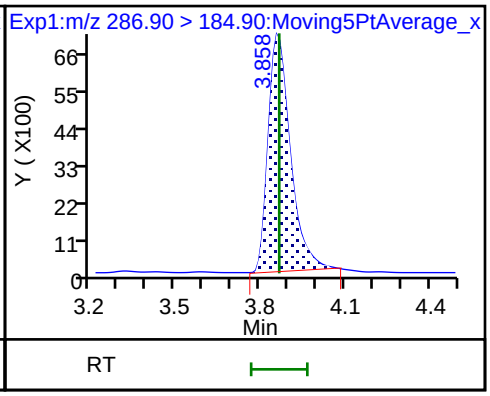


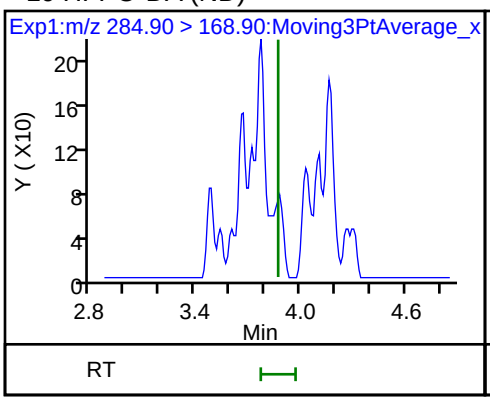
D 20 13C3 HFPO-DA



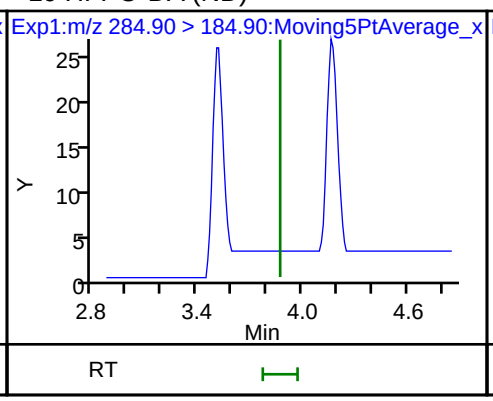
D 20 13C3 HFPO-DA



19 HFPO-DA (ND)



19 HFPO-DA (ND)



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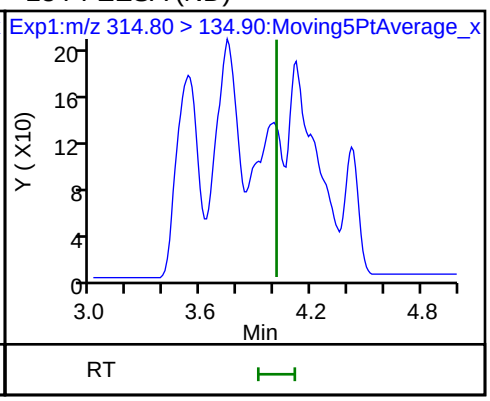

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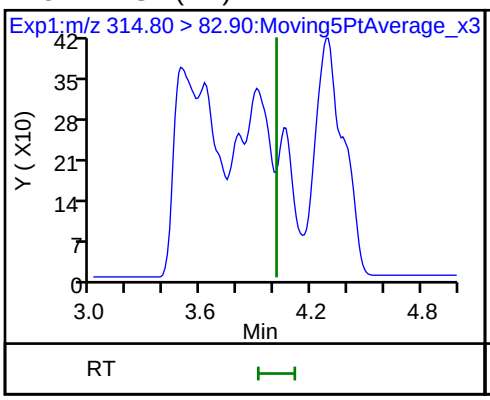
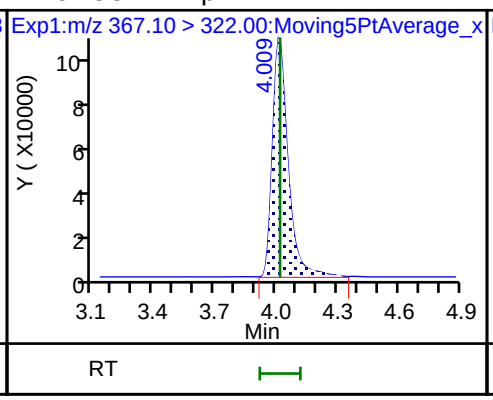


D 25 13C4 PFHpA



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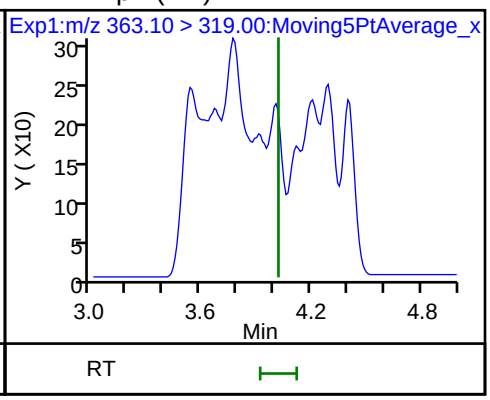

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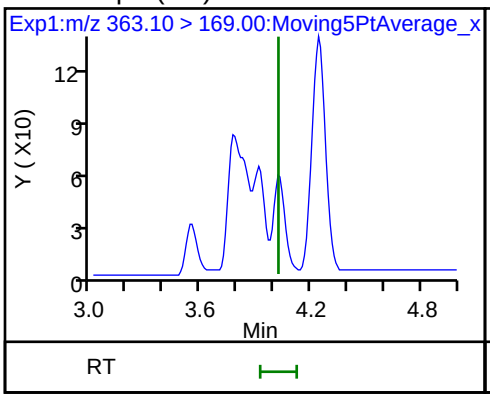
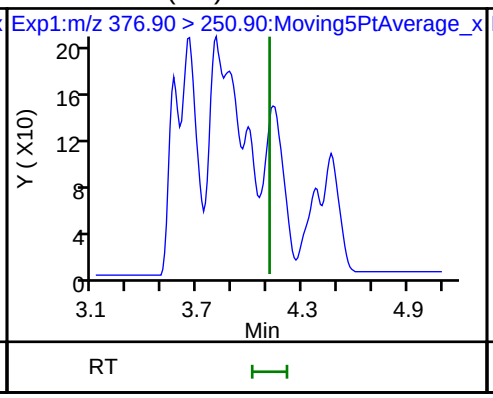


26 ADONA (ND)



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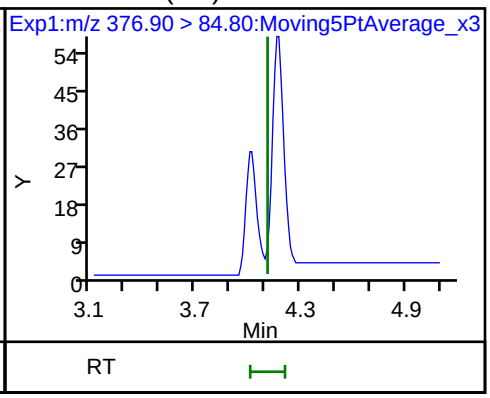
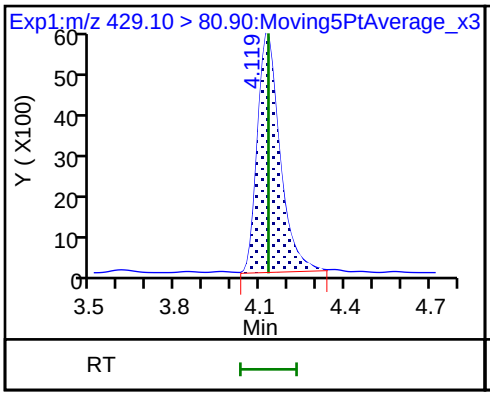
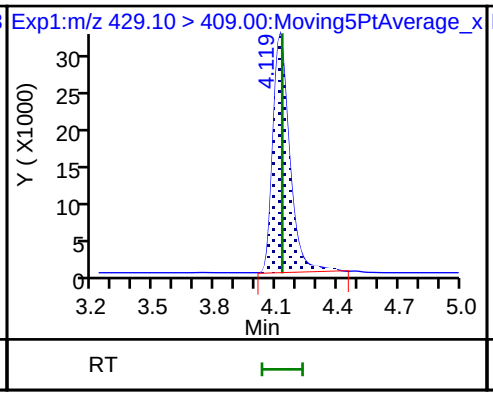


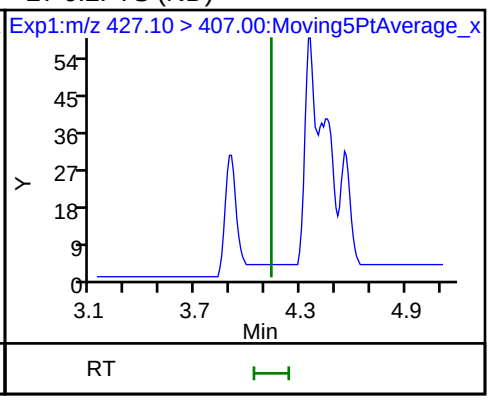
D 29 13C2-6:2FTS



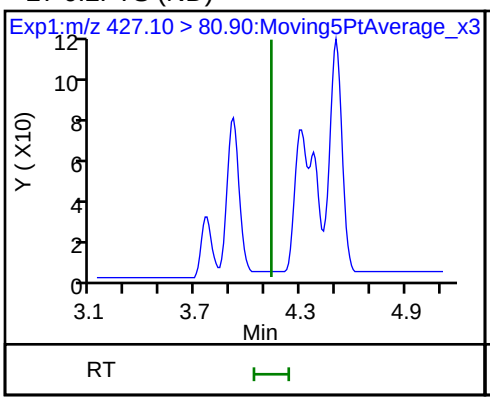
D 29 13C2-6:2FTS



27 6:2FTS (ND)



27 6:2FTS (ND)



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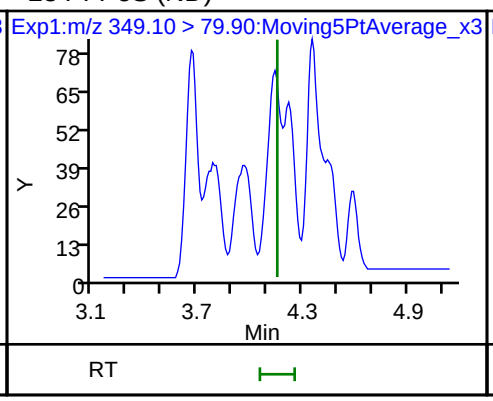

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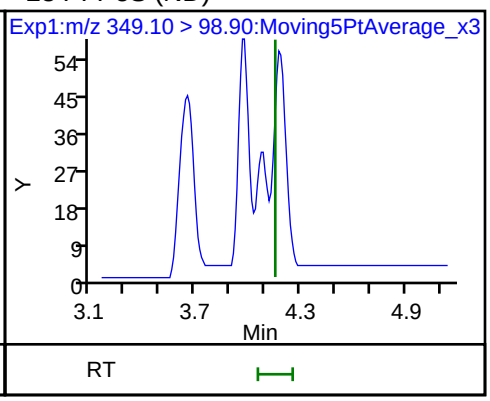
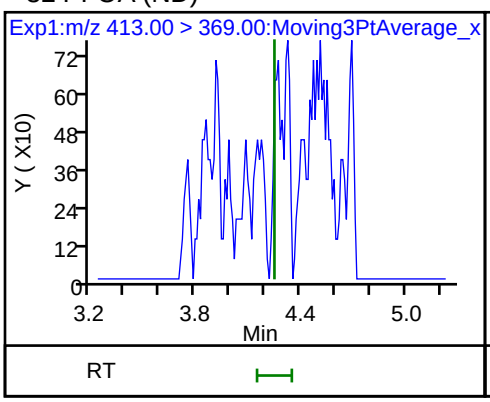


32 PFOA (ND)



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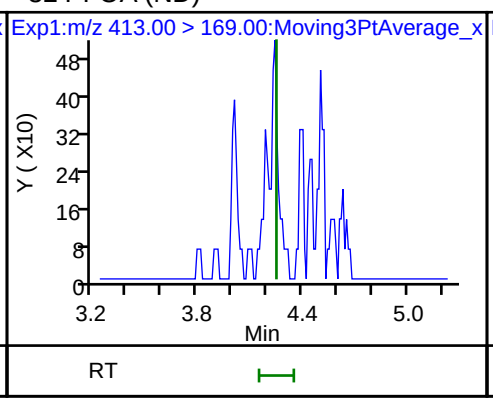

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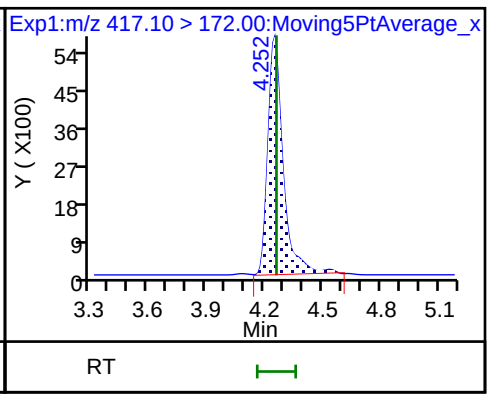

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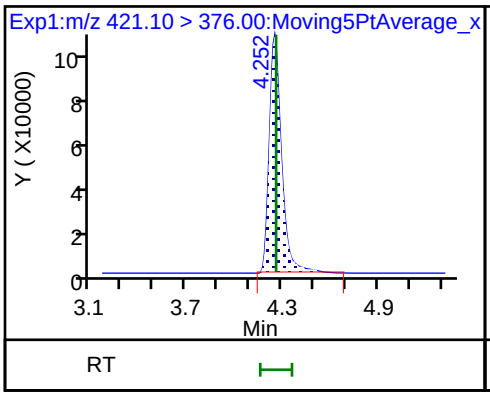
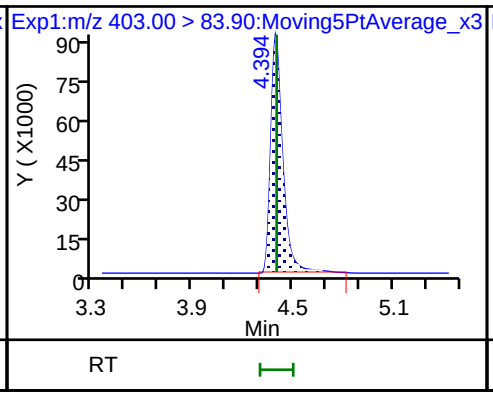
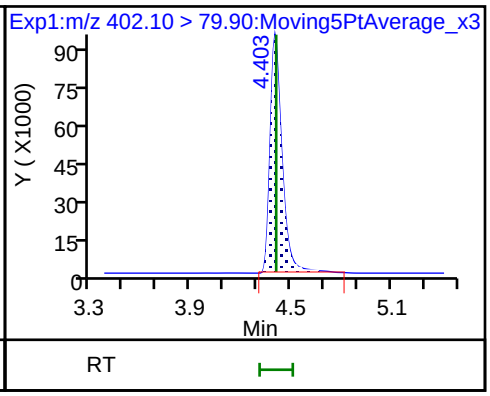


* 35 18O2 PFHxS



D 36 13C3 PFHxS



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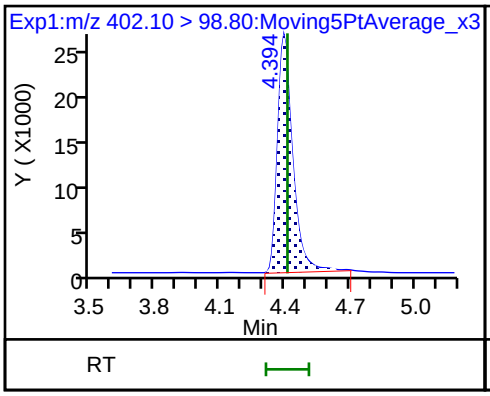

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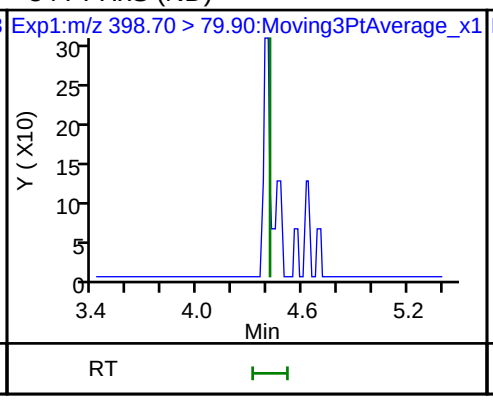
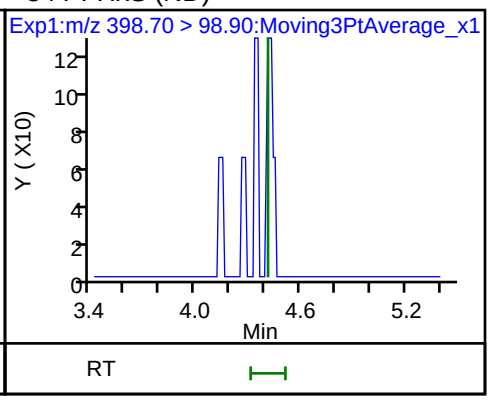
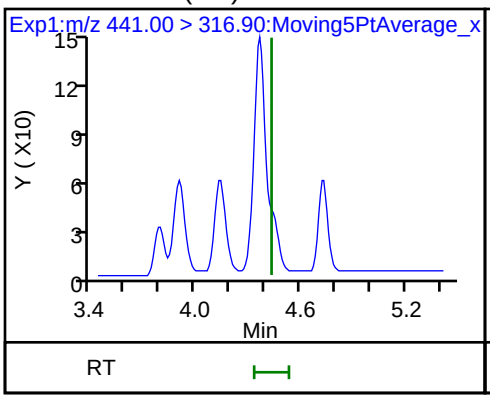


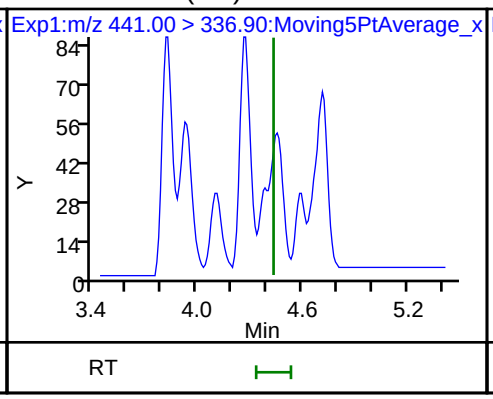
34 PFHxS (ND)



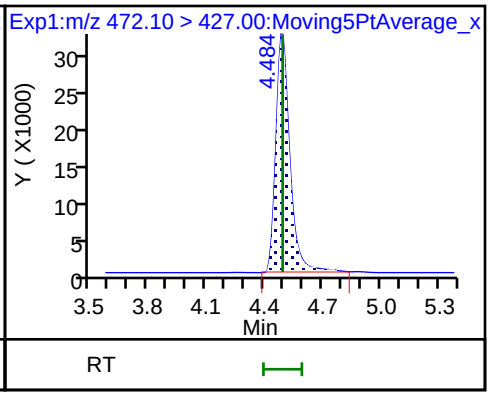
33 7:3 FTCA (ND)



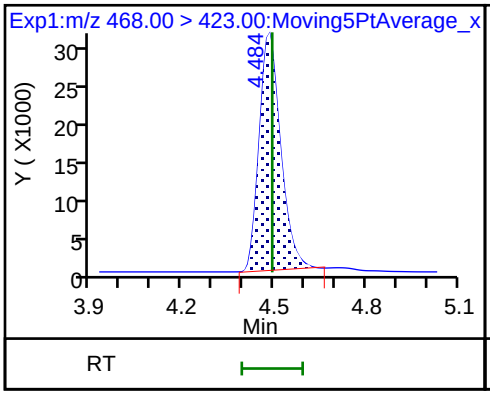
33 7:3 FTCA (ND)



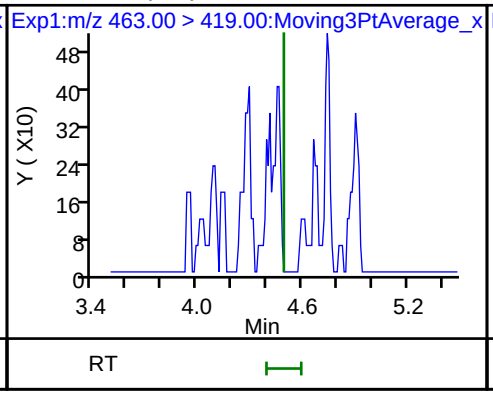
D 38 13C9 PFNA



* 37 13C5 PFNA



39 PFNA (ND)



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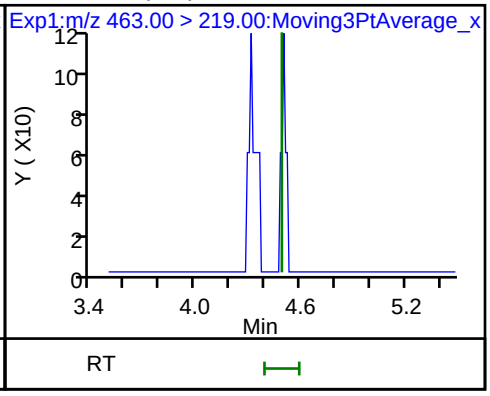
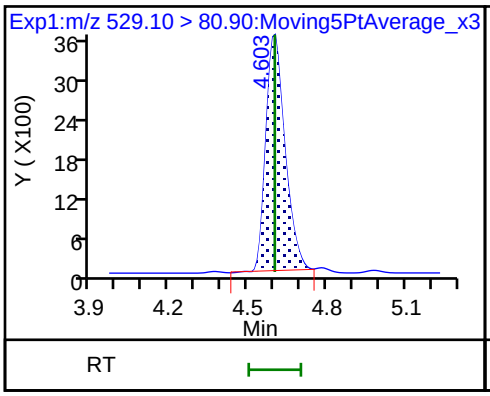
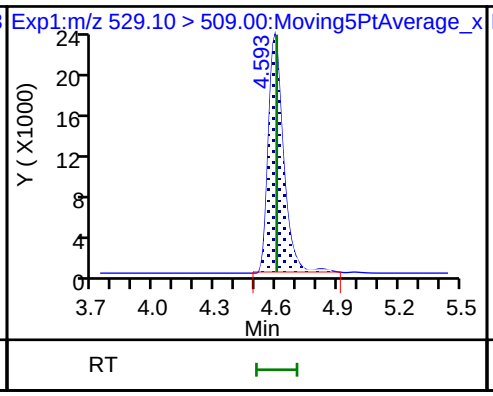


D 41 13C2-8:2FTS



D 41 13C2-8:2FTS



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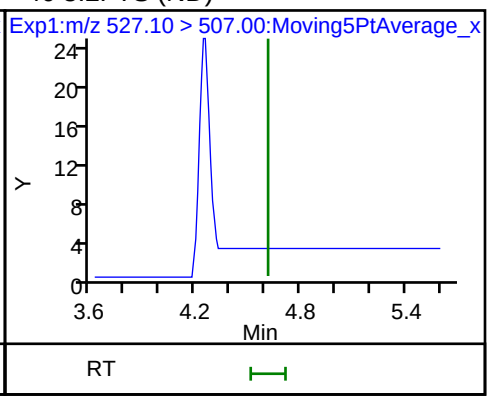

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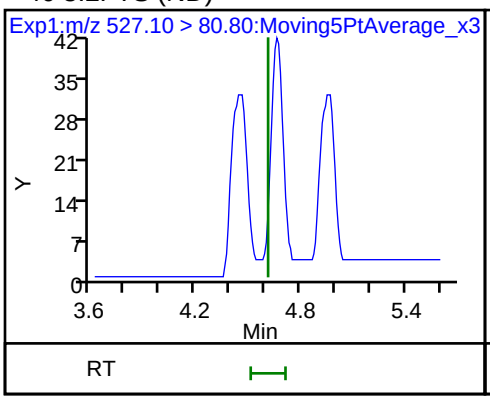
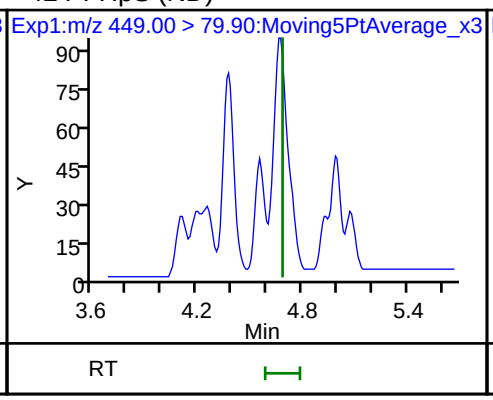


42 PFHpS (ND)



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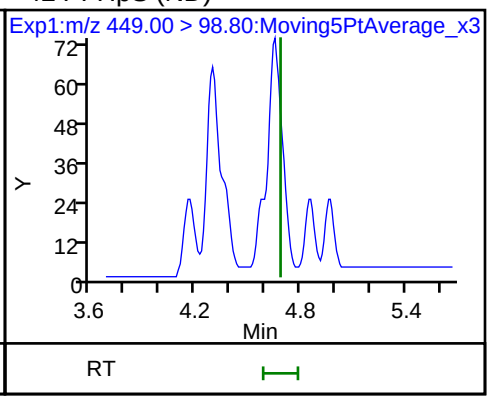
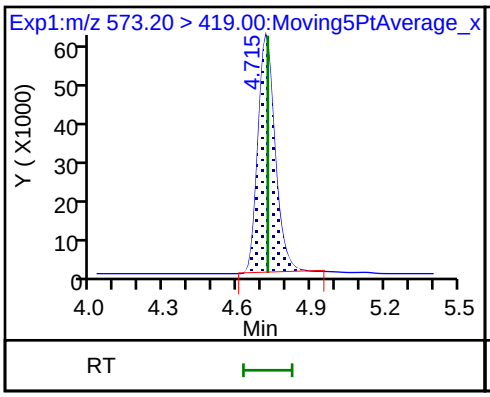


D 44 d3-NMeFOSAA



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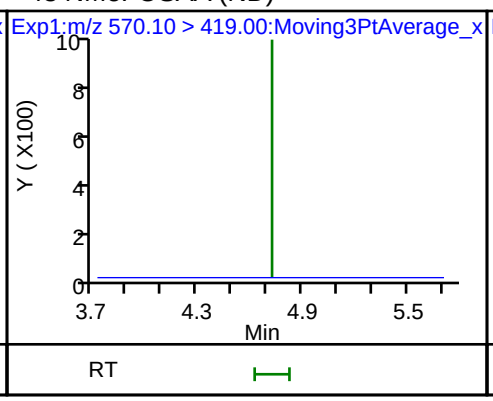

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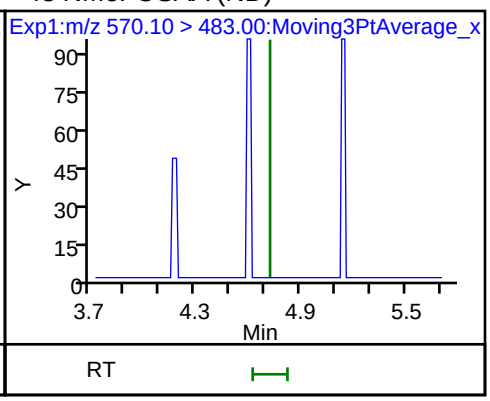
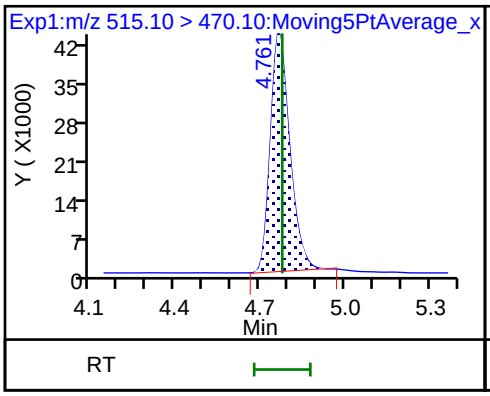
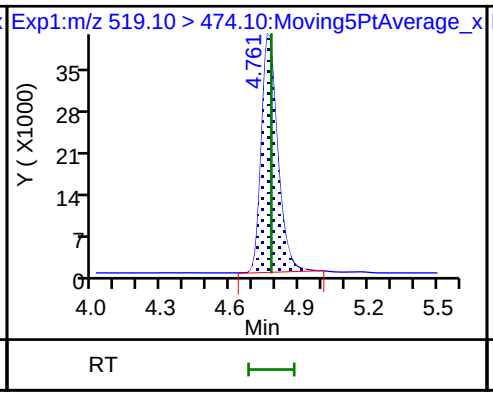


* 46 13C2 PFDA



D 47 13C6 PFDA



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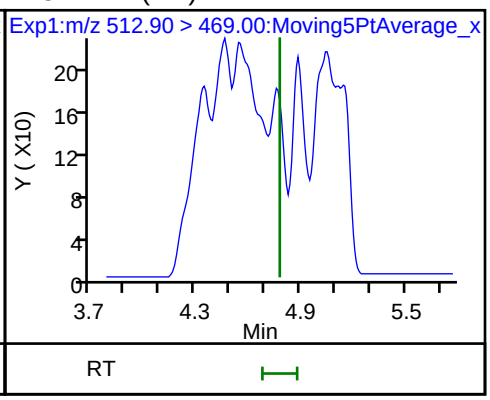

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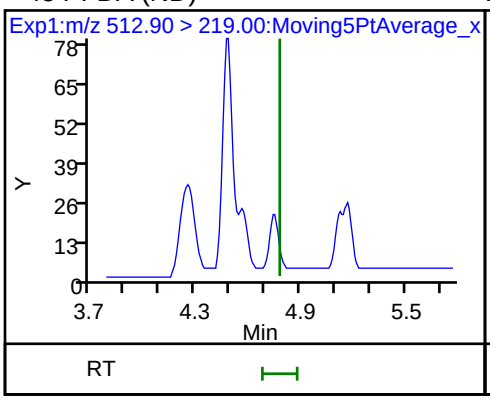
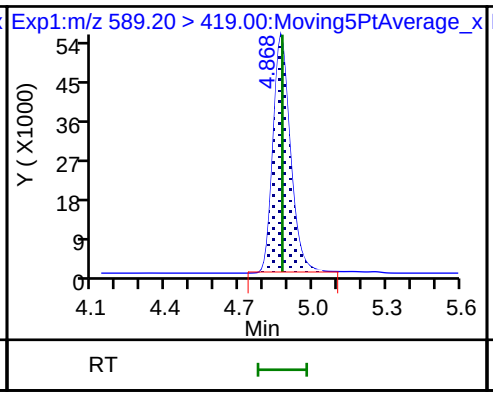


D 49 d5-NEtFOSAA



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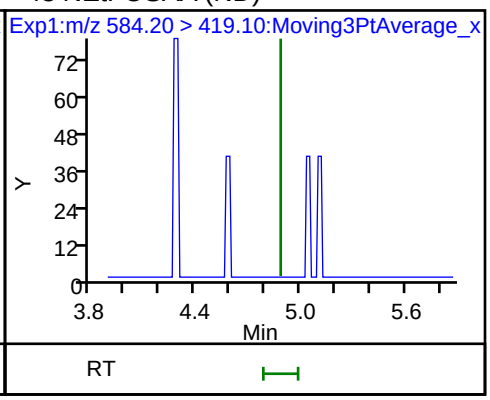

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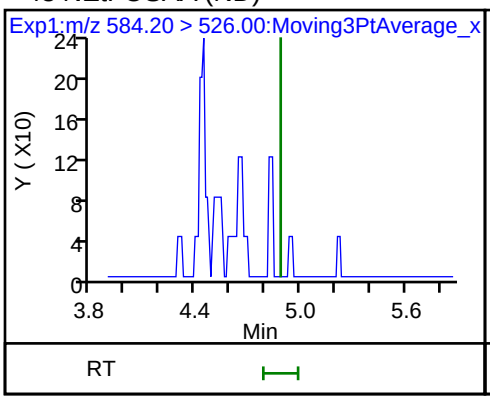
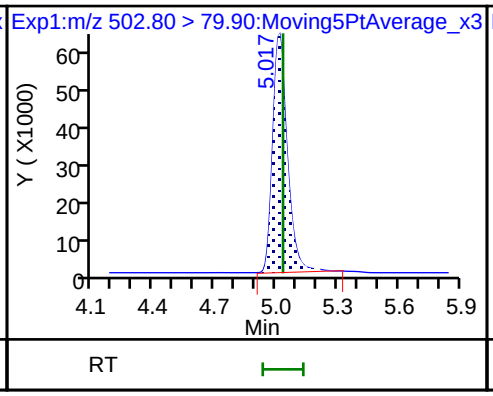
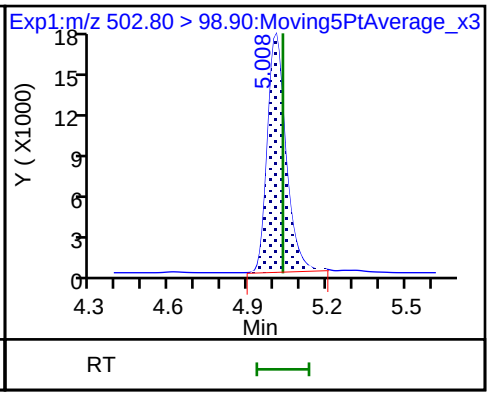


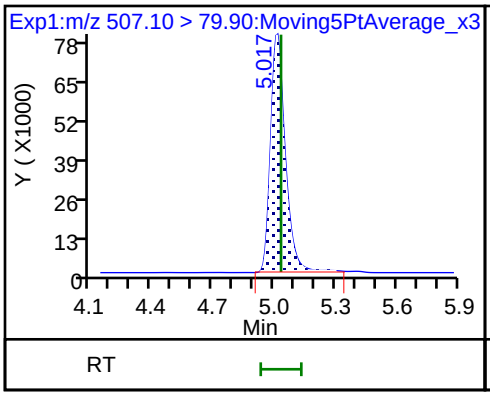
* 52 13C4 PFOS



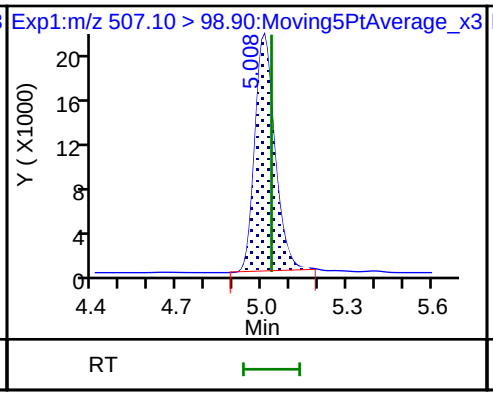
* 52 13C4 PFOS



D 51 13C8 PFOS



D 51 13C8 PFOS



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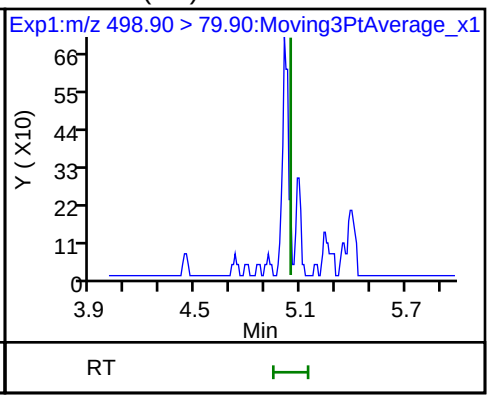

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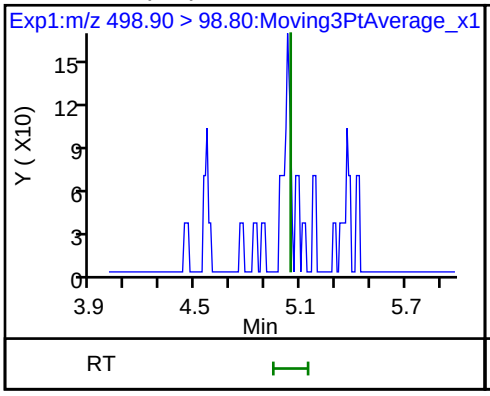
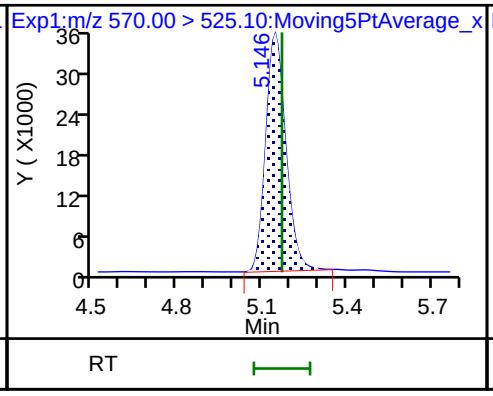


D 54 13C7 PFUnA



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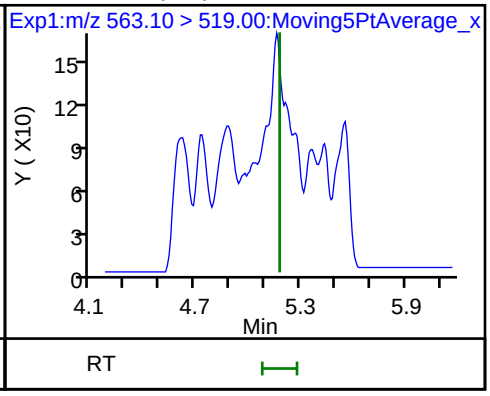

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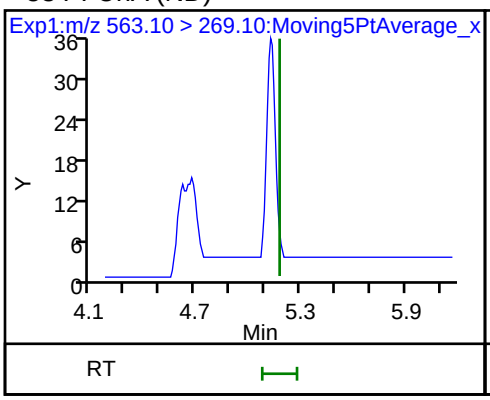
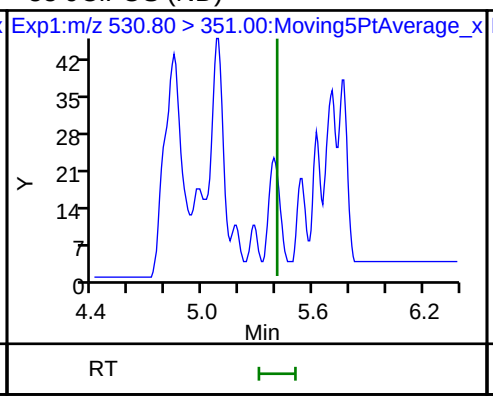


55 9ClFOS (ND)



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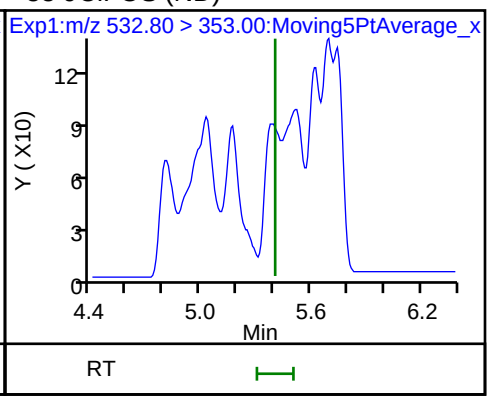
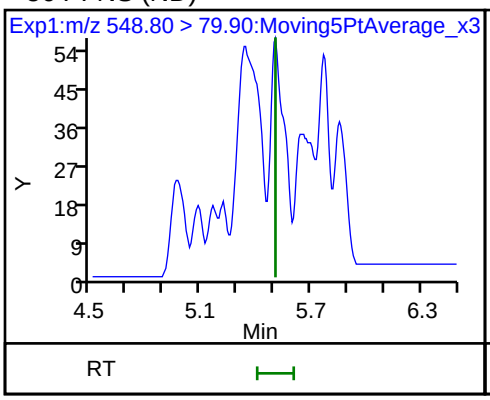


56 PFNS (ND)



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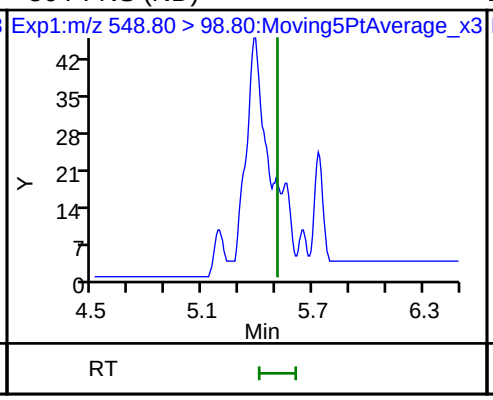
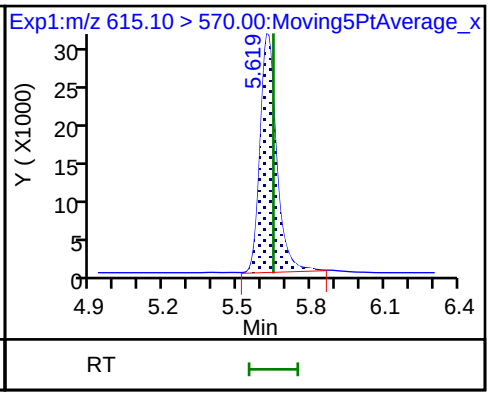


D 58 PFDoDA



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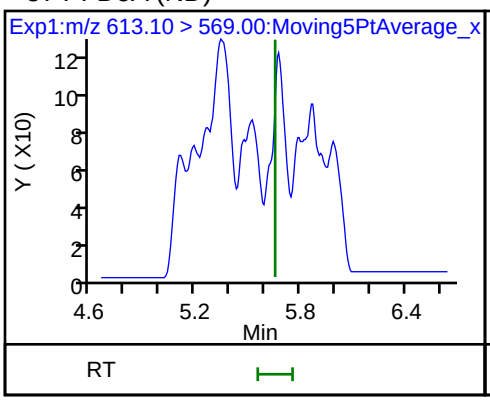

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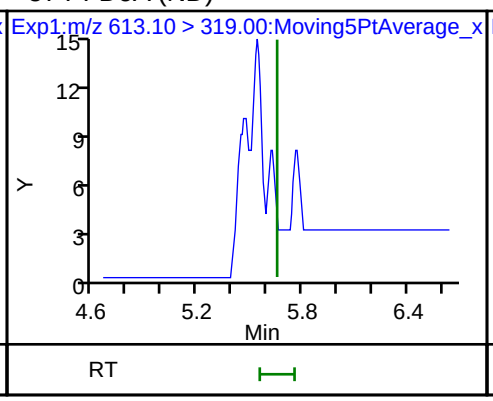

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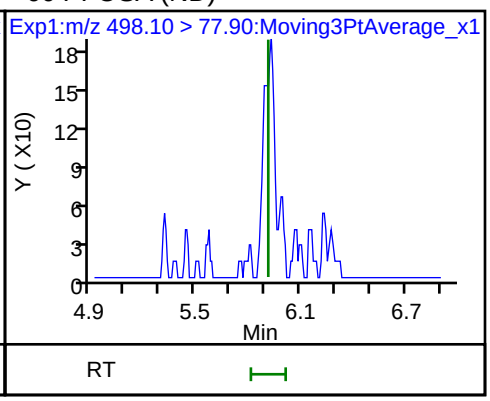

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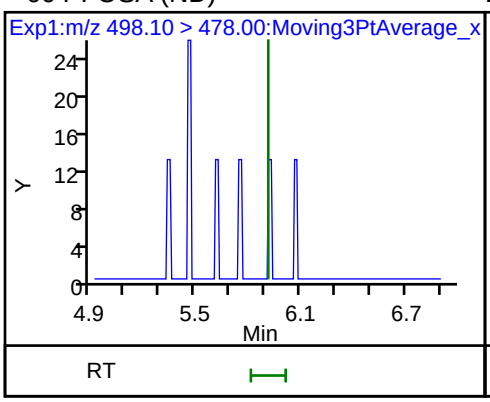
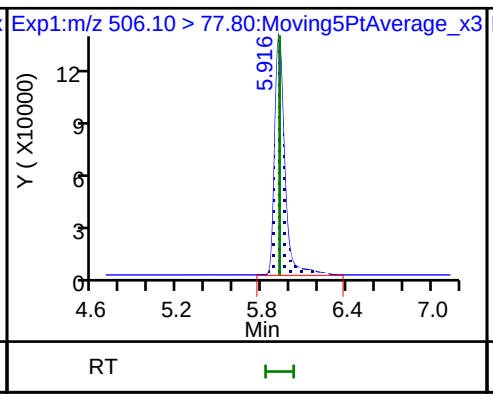
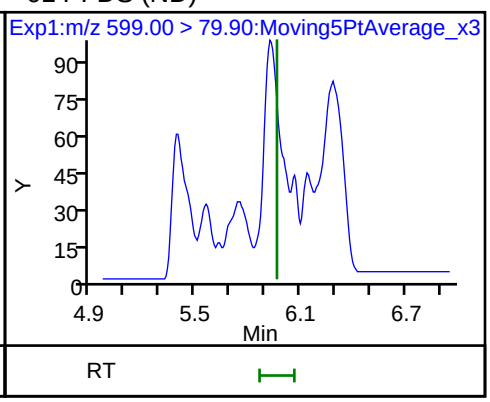


D 59 13C8 FOSA



61 PFDS (ND)



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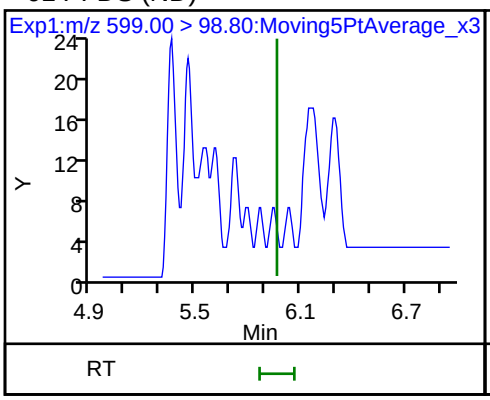

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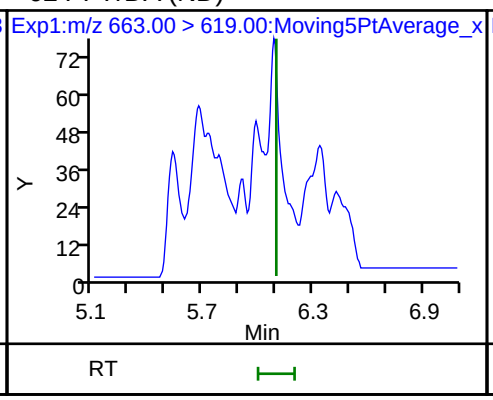

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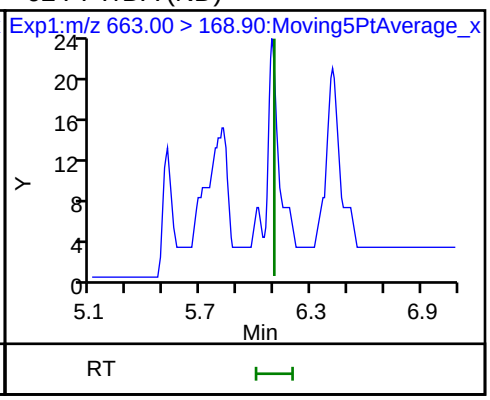
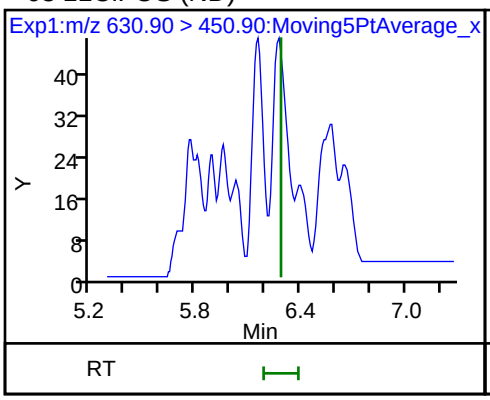
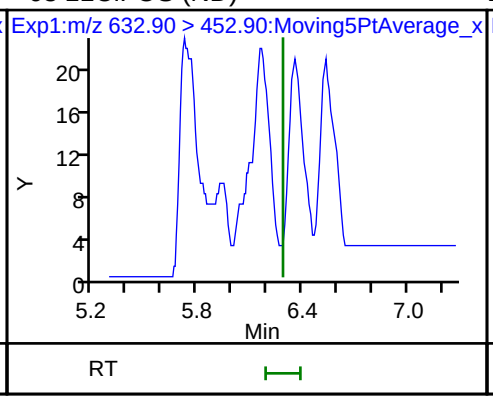


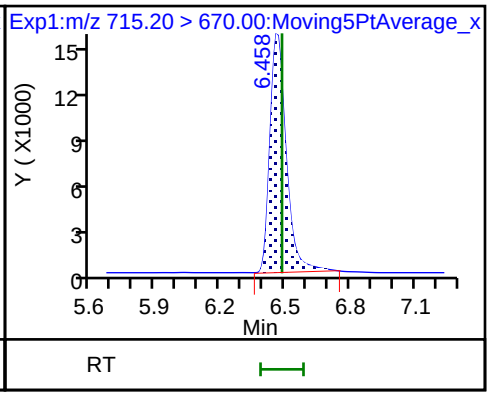
63 11ClFOS (ND)



63 11ClFOS (ND)



D 65 13C2 PFTeDA



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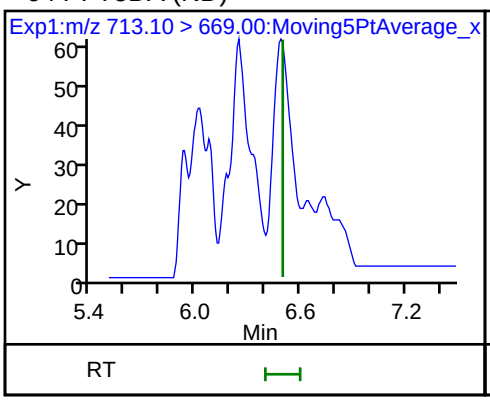
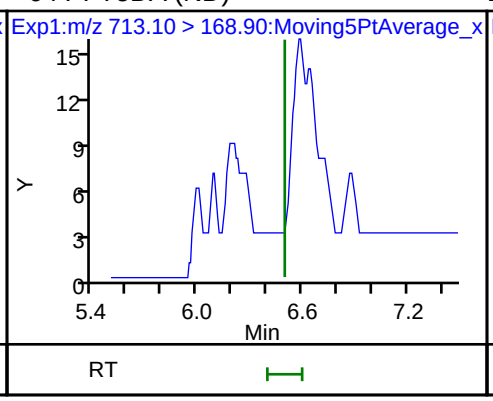
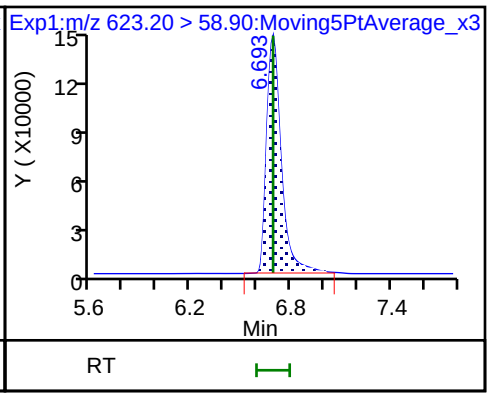


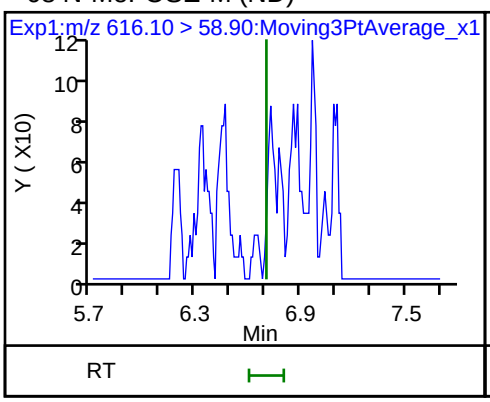
64 PFTeDA (ND)



D 67 d7-N-Me-FOSE



68 N-MeFOSE-M (ND)



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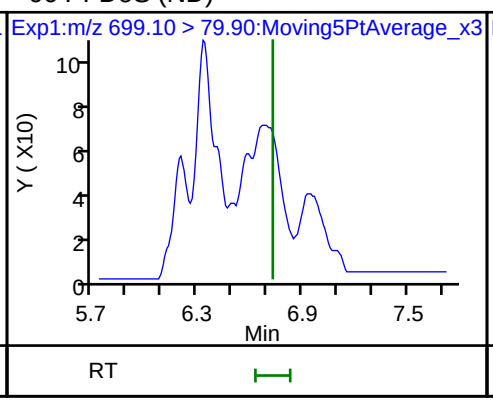

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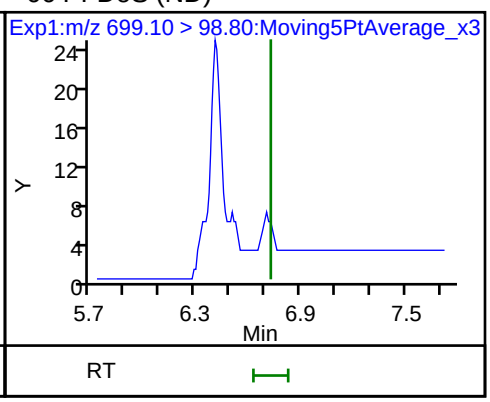
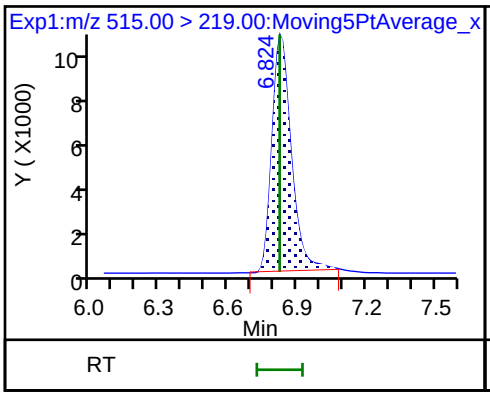
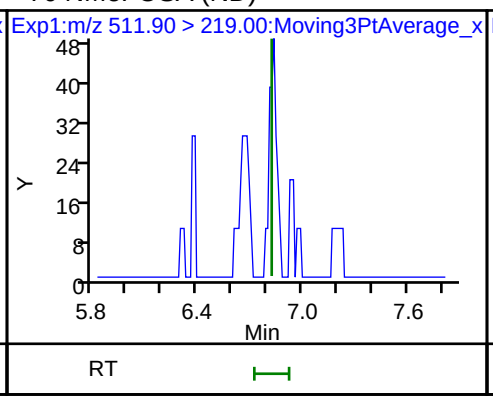


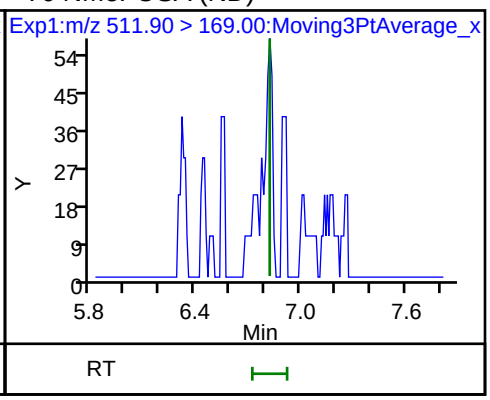
D 69 d3-NMePFOSA



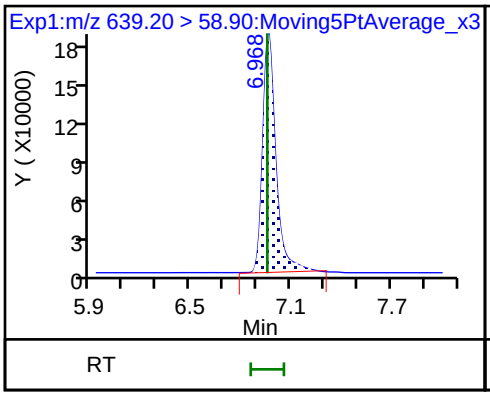
70 NMeFOSA (ND)



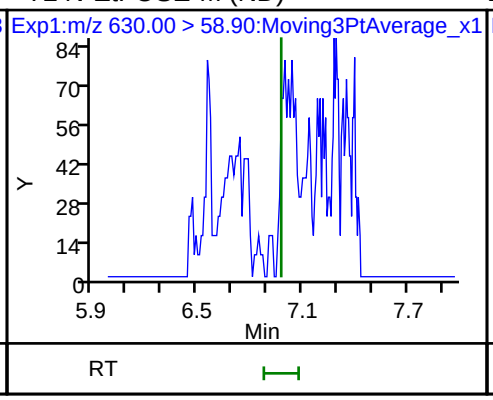
70 NMeFOSA (ND)



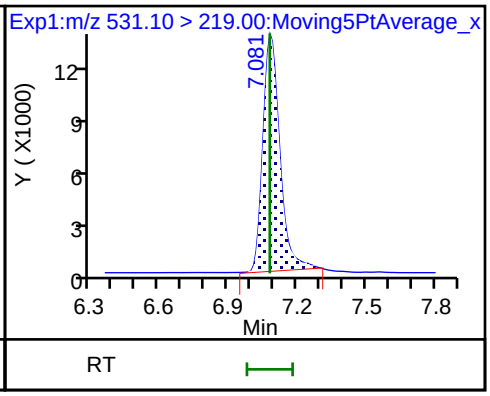
D 71 d9-N-EtFOSE



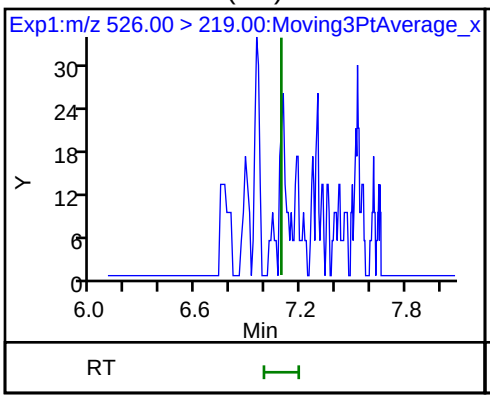
72 N-EtFOSE-M (ND)



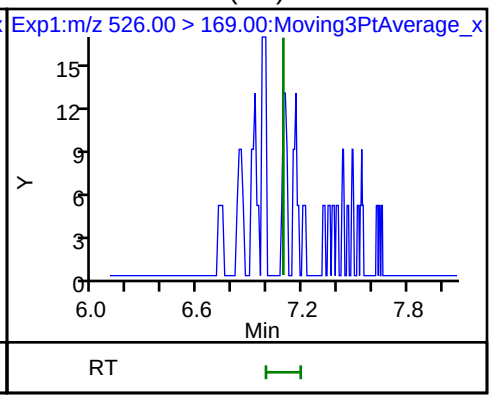
D 73 d5-NEtPFOSA



74 N-EtFOSA-M (ND)



74 N-EtFOSA-M (ND)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

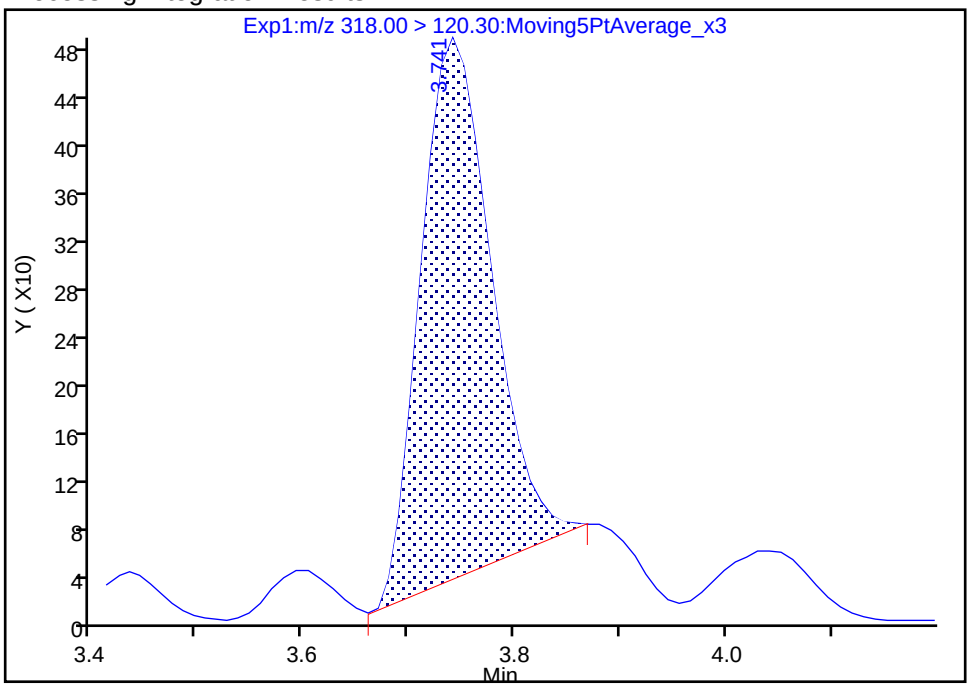
Data File:	\\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-62.d				
Injection Date:	08-Aug-2023 23:50:40	Instrument ID:	30729		
Lims ID:	460-282979-A-3-A	Lab Sample ID:	410-282979-3		
Client ID:	AD38758-005				
Operator ID:	US19_USR_INS20263	ALS Bottle#:	45	Worklist Smp#:	57
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

D 14 13C5 PFHxA, CAS: STL02577

Signal: 2

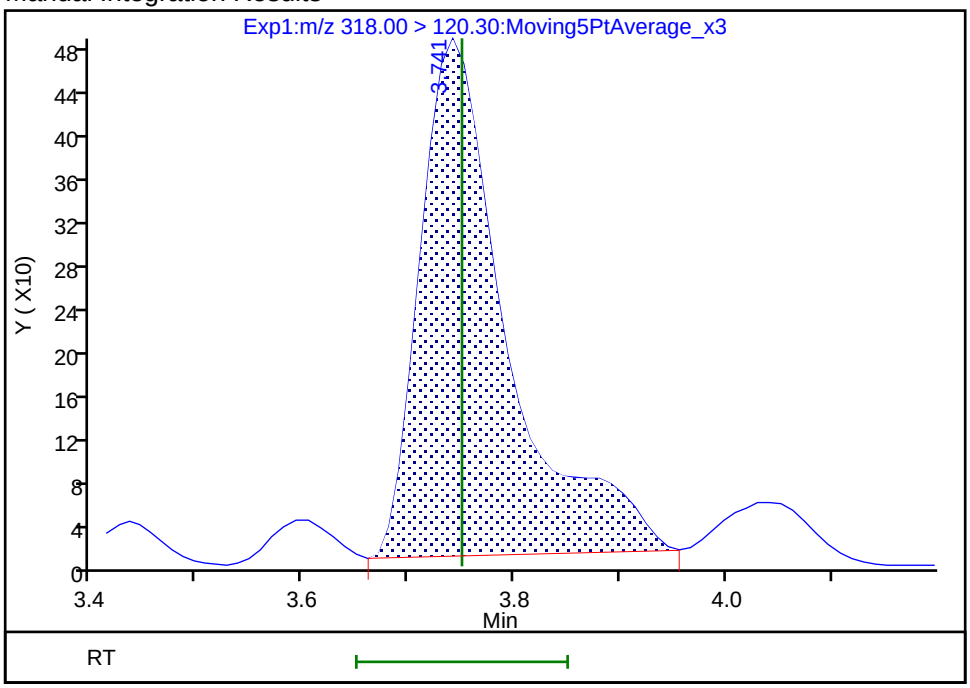
Processing Integration Results

RT: 3.74
Area: 2077
Amount: 2.162255
Amount Units: ng/ml



Manual Integration Results

RT: 3.74
Area: 2693
Amount: 2.162255
Amount Units: ng/ml



Reviewer: QY4X, 09-Aug-2023 10:00:39 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1 Analy Batch No.: 404842

SDG No.:

Instrument ID: 30729 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/05/2023 09:27 Calibration End Date: 08/05/2023 11:25 Calibration ID: 52413

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-404842/1	23AUG05DCAL-11.d
Level 2	IC 410-404842/2	23AUG05DCAL-02.d
Level 3	IC 410-404842/3	23AUG05DCAL-03.d
Level 4	IC 410-404842/4	23AUG05DCAL-04.d
Level 5	ICISAV 410-404842/5	23AUG05DCAL-05.d
Level 6	IC 410-404842/6	23AUG05DCAL-06.d
Level 7	IC 410-404842/7	23AUG05DCAL-07.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluorobutanoic acid	0.7391 0.9054	0.7722 0.9383	0.7790	0.8430	0.8686	AveID		0.8351				8.9		20.0			
3:3 FTCA	0.0888 0.0956	0.0944 0.0862	0.0889	0.0885	0.0924	AveID		0.0907				3.8		20.0			
Perfluoro-3-methoxypropanoic acid	1.6867 1.7765	1.7640 1.7559	1.8644	1.9017	1.9340	AveID		1.8119				4.9		20.0			
Perfluoropentanoic acid	1.7364 1.8485	1.8169 1.7459	1.7428	1.8582	1.9257	AveID		1.8106				4.0		20.0			
Perfluoro(4-methoxybutanoic acid)	1.2505 1.4396	1.4882 1.4320	1.4581	1.5939	1.5219	AveID		1.4549				7.3		20.0			
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	2.6486 2.9775	2.1455 3.0955	2.8442	2.6373	2.3936	AveID		2.6775				12.4		20.0			
Perfluoro-3,6-dioxaheptanoic acid	0.7266 0.7508	0.5666 0.6245	0.7861	0.6776	0.7724	AveID		0.7006				11.6		20.0			
Perfluorohexanoic acid	4.6771 6.0300	5.0859 5.7330	4.9988	5.4291	6.0604	AveID		5.4306				9.9		20.0			
5:3 FTCA	1.5275 1.7255	1.5205 +++++	1.6802	1.5184	1.6689	AveID		1.6069				5.9		20.0			
Perfluorobutanesulfonic acid	0.5668 0.6009	0.5614 0.6378	0.5577	0.6062	0.7026	AveID		0.6048				8.6		20.0			
HFPO-DA	0.6922 0.7070	0.6593 0.7531	0.6521	0.6477	0.6796	AveID		0.6844				5.4		20.0			
PFEESA	28.298 32.238	27.353 27.364	28.403	27.637	29.490	AveID		28.684				6.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1 Analy Batch No.: 404842

SDG No.:

Instrument ID: 30729 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/05/2023 09:27 Calibration End Date: 08/05/2023 11:25 Calibration ID: 52413

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluoroheptanoic acid	0.9619 0.9758	0.9541 1.0249	0.8890	0.8524	0.9493	AveID		0.9439				6.0		20.0			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.7929 1.9878	1.8971 1.9938	1.8983	1.9468	2.0140	AveID		1.9330				4.0		20.0			
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	4.5349 4.5515	5.2307 3.9996	4.4694	3.7901	5.3654	AveID		4.5631				12.7		20.0			
Perfluoropentanesulfonic acid	0.9677 1.0305	0.7904 1.1251	1.0063	1.0011	0.9793	AveID		0.9858				10.2		20.0			
Perfluorooctanoic acid	0.5148 0.5494	0.4488 0.5245	0.4094	0.4922	0.5191	AveID		0.4940				9.9		20.0			
Perfluorohexanesulfonic acid	0.5455 0.5466	0.4304 0.5908	0.5100	0.5327	0.5309	AveID		0.5267				9.3		20.0			
7:3 FTCA	1.1584 1.2071	1.1326 +++++	1.0812	1.0264	1.2310	AveID		1.1394				6.7		20.0			
Perfluorononanoic acid	0.7826 0.8027	0.8599 0.8781	0.8720	0.7952	0.8903	AveID		0.8401				5.3		20.0			
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	5.6573 5.2905	5.7131 +++++	5.6590	5.6222	5.7466	AveID		5.6148				2.9		20.0			
Perfluoroheptanesulfonic acid	0.8987 0.9764	0.9539 1.1118	1.0347	1.0379	1.0581	AveID		1.0102				7.1		20.0			
NMeFOSAA	1.0323 0.9205	0.8070 1.0719	0.9528	0.8939	0.8825	AveID		0.9373				9.7		20.0			
Perfluorodecanoic acid	0.8051 0.7033	0.6802 0.8352	0.6072	0.6102	0.7367	AveID		0.7111				12.4		20.0			
NEtFOSAA	0.6145 0.8200	0.7179 0.7458	0.6760	0.8777	0.7847	AveID		0.7481				11.9		20.0			
Perfluorooctanesulfonic acid	0.9341 0.8570	0.8554 1.0195	0.9351	0.9441	0.9029	AveID		0.9211				6.2		20.0			
Perfluoroundecanoic acid	0.9319 0.9320	0.8273 1.0207	0.7580	0.8289	0.8936	AveID		0.8846				9.8		20.0			
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.6397 1.7810	1.8177 1.8654	1.7350	1.7542	1.8775	AveID		1.7815				4.6		20.0			
Perfluorononanesulfonic acid	0.6082 0.6659	0.6198 0.7241	0.6872	0.6993	0.7389	AveID		0.6776				7.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1 Analy Batch No.: 404842

SDG No.:

Instrument ID: 30729 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/05/2023 09:27 Calibration End Date: 08/05/2023 11:25 Calibration ID: 52413

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluorododecanoic acid	0.9238 0.9963	0.8496 0.9903	0.8735	0.9944	0.9767	AveID		0.9435				6.5		20.0			
Perfluorooctanesulfonamide	1.0218 1.0109	1.0025 1.0268	1.0003	1.0284	1.1302	AveID		1.0316				4.4		20.0			
Perfluorodecanesulfonic acid	0.9098 1.0577	0.9896 1.1260	1.1093	1.1557	1.1119	AveID		1.0657				8.2		20.0			
Perfluorotridecanoic acid	0.9956 1.0249	0.8667 1.0436	0.9965	1.0689	1.0078	AveID		1.0006				6.5		20.0			
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	2.2888 2.4765	2.3308 2.2694	2.2912	2.4124	2.6106	AveID		2.3828				5.3		20.0			
Perfluorotetradecanoic acid	1.0961 1.1944	0.9663 1.2068	1.1085	1.2017	1.2331	AveID		1.1439				8.2		20.0			
Perfluorododecanesulfonic acid (PFDoS)	0.9999 1.0822	1.0224 1.1570	1.1758	1.1798	1.1657	AveID		1.1118				6.9		20.0			
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	1.0899 1.1734	1.0778 1.1584	1.0469	1.0959	1.1415	AveID		1.1120				4.2		20.0			
NMeFOSA	0.7846 0.8494	0.7796 0.7815	0.7865	0.7975	0.7833	AveID		0.7946				3.1		20.0			
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	0.9212 0.9808	0.9089 0.9759	0.9239	0.9232	0.9475	AveID		0.9402				3.0		20.0			
N-ethylperfluoro-1-octanesulfonamide	0.8595 1.0050	0.9623 1.0002	1.0077	0.9305	0.9771	AveID		0.9632				5.5		20.0			
13C4 PFBA	0.8207 0.8447	0.8203 0.8200	0.7911	0.7940	0.7913	Ave		0.8117				2.5		20.0			
13C5 PFPeA	0.7339 0.6904	0.6761 0.7735	0.7128	0.7141	0.7284	Ave		0.7185				4.4		20.0			
M2-4:2 FTS	0.0640 0.0748	0.0823 0.0675	0.0707	0.0772	0.0777	Ave		0.0734				8.7		20.0			
13C5 PFHxA	0.1720 0.1560	0.1743 0.1926	0.1763	0.1844	0.1682	Ave		0.1748				6.7		20.0			
13C3 PFBS	1.0758 1.1061	1.1283 0.9198	1.0552	1.0169	0.9583	Ave		1.0372				7.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1 Analy Batch No.: 404842

SDG No.:

Instrument ID: 30729 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/05/2023 09:27 Calibration End Date: 08/05/2023 11:25 Calibration ID: 52413

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
13C3 HFPO-DA	1.1681 1.0365	1.0978 1.0018	1.1605	1.1710	1.0871	Ave		1.1033				6.1		20.0			
13C4 PFHpA	2.0800 1.9129	2.1108 1.9884	2.2343	2.2210	2.1236	Ave		2.0959				5.5		20.0			
M2-6:2 FTS	0.0416 0.0400	0.0359 0.0371	0.0365	0.0442	0.0302	Ave		0.0379				11.9		20.0			
13C8 PFOA	22.884 20.403	28.949 24.662	24.019	23.795	21.652	Ave		23.766				11.4		20.0			
13C3 PFHxS	1.1281 1.2146	1.2000 1.0398	1.1159	1.0914	1.0975	Ave		1.1268				5.5		20.0			
13C9 PFNA	1.0346 1.0870	0.9749 1.0666	1.0717	1.0847	1.0727	Ave		1.0560				3.8		20.0			
M2-8:2 FTS	0.0206 0.0210	0.0199 +++++	0.0194	0.0205	0.0201	Ave		0.0202				2.9		20.0			
d3-NMeFOSAA	0.4868 0.5311	0.4587 0.4732	0.4969	0.5279	0.5069	Ave		0.4974				5.4		20.0			
13C6 PFDA	0.9900 1.0711	1.0366 0.8855	1.0607	1.0729	0.9428	Ave		1.0085				7.2		20.0			
d5-NEtFOSAA	0.4750 0.4495	0.4703 0.4737	0.4546	0.4937	0.4226	Ave		0.4628				4.9		20.0			
13C8 PFOS	1.3859 1.5727	1.4664 1.3674	1.3757	1.4014	1.4023	Ave		1.4245				5.1		20.0			
13C7 PFUnA	0.9432 0.9846	0.9845 0.8121	0.9552	0.9257	0.8844	Ave		0.9271				6.6		20.0			
13C2-PFDoDA	0.8099 0.8568	0.8554 0.7886	0.8699	0.7844	0.7948	Ave		0.8228				4.4		20.0			
13C8 FOSA	1.9942 2.1687	2.1469 1.9677	2.1933	2.2160	1.9259	Ave		2.0875				5.8		20.0			
13C2 PFTeDA	0.4724 0.4819	0.5012 0.4460	0.4591	0.4423	0.4405	Ave		0.4633				4.9		20.0			
d7-N-MeFOSE-M	0.3250 0.3539	0.3380 0.3350	0.3557	0.3609	0.3349	Ave		0.3433				3.9		20.0			
d3-NMePFOSA	0.4029 0.4152	0.3884 0.4151	0.4140	0.4252	0.4066	Ave		0.4096				2.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1 Analy Batch No.: 404842

SDG No.:

Instrument ID: 30729 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/05/2023 09:27 Calibration End Date: 08/05/2023 11:25 Calibration ID: 52413

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
d9-N-EtFOSE-M	0.4008 0.4366	0.4154 0.4190	0.4250	0.4402	0.4134	Ave		0.4215				3.3		20.0			
d5-NEtPFOSA	0.4349 0.4639	0.4237 0.4260	0.4161	0.4728	0.4362	Ave		0.4391				4.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 460-282979-1 Analy Batch No.: 404842

SDG No.:

Instrument ID: 30729 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/05/2023 09:27 Calibration End Date: 08/05/2023 11:25 Calibration ID: 52413

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-404842/1	23AUG05DCAL-11.d
Level 2	IC 410-404842/2	23AUG05DCAL-02.d
Level 3	IC 410-404842/3	23AUG05DCAL-03.d
Level 4	IC 410-404842/4	23AUG05DCAL-04.d
Level 5	ICISAV 410-404842/5	23AUG05DCAL-05.d
Level 6	IC 410-404842/6	23AUG05DCAL-06.d
Level 7	IC 410-404842/7	23AUG05DCAL-07.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Perfluorobutanoic acid		AveI D	71260 5384826	188442 24303512	461722	1027717	1993614	0.800 50.0	2.00 250	5.00	10.0	20.0
3:3 FTCA		AveI D	6214 415129	15380 1962951	36625	74136	154814	1.00 62.4	2.50 312	6.26	12.5	25.0
Perfluoro-3-methoxypropanoic acid		AveI D	47190 3090628	114967 16028052	306891	637164	1296733	0.400 25.0	1.00 125	2.50	5.00	10.0
Perfluoropentanoic acid		AveI D	48581 3215863	118418 15937101	286865	622592	1291151	0.400 25.0	1.00 125	2.50	5.00	10.0
Perfluoro(4-methoxybutanoic acid)		AveI D	34987 2504516	96994 13071168	240013	534014	1020450	0.400 25.0	1.00 125	2.50	5.00	10.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)		AveI D	22342 1675065	55731 8216760	159772	338234	603375	0.750 46.9	1.88 234	4.69	9.38	18.8
Perfluoro-3,6-dioxaheptanoic acid		AveI D	4763 295205	9523 1419090	32001	58615	119559	0.400 25.0	1.00 125	2.50	5.00	10.0
Perfluorohexanoic acid		AveI D	15330 1185519	42740 6513778	101748	234808	469064	0.200 12.5	0.500 62.5	1.25	2.50	5.00
5:3 FTCA		AveI D	125167 8467575	319445 +++++	856364	1641789	3229333	5.00 312	12.5 +++++	31.3	62.5	125

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 460-282979-1 Analy Batch No.: 404842

SDG No.:

Instrument ID: 30729 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/05/2023 09:27 Calibration End Date: 08/05/2023 11:25 Calibration ID: 52413

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Perfluorobutanesulfonic acid		AveI D	19023 1183019	47311 5456106	110582	242214	516485	0.177 11.1	0.444 55.4	1.11	2.22	4.44
HFPO-DA		AveI D	61648 3693366	139549 17807155	349507	711673	1360238	0.800 50.0	2.00 250	5.00	10.0	20.0
PFEESA		AveI D	165099 11281947	409157 55342552	1029081	2127665	4062860	0.356 22.3	0.890 111	2.23	4.45	8.90
Perfluoroheptanoic acid		AveI D	38135 2351805	97070 12025236	229344	444107	927887	0.200 12.5	0.500 62.5	1.25	2.50	5.00
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		AveI D	150888 9813087	379450 44551436	961407	2021563	3809346	0.756 47.3	1.89 236	4.73	9.45	18.9
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)		AveI D	25186 1386923	60100 5906428	131285	282170	533384	0.760 47.5	1.90 238	4.75	9.50	19.0
Perfluoropentanesulfonic acid		AveI D	36128 2363549	75155 11542610	223866	455412	874706	0.188 11.8	0.471 58.8	1.18	2.35	4.71
Perfluorooctanoic acid		AveI D	23295 1468678	48656 7136507	109091	280528	531929	0.200 12.5	0.500 62.5	1.25	2.50	5.00
Perfluorohexanesulfonic acid		AveI D	19783 1217725	39753 5887112	110212	235375	460556	0.183 11.4	0.457 57.1	1.14	2.29	4.57
7:3 FTCA		AveI D	94918 5923764	237940 +++++	551050	1109780	2381915	5.00 312	12.5 +++++	31.3	62.5	125
Perfluorononanoic acid		AveI D	16934 1125767	45917 6387627	120182	228654	480716	0.200 12.5	0.500 62.5	1.25	2.50	5.00
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)		AveI D	15710 857007	36751 +++++	89095	196080	384008	0.768 48.0	1.92 +++++	4.80	9.60	19.2

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 460-282979-1 Analy Batch No.: 404842

SDG No.:

Instrument ID: 30729 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/05/2023 09:27 Calibration End Date: 08/05/2023 11:25 Calibration ID: 52413

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Perfluoroheptanesulfonic acid		AveI D	27286 1931453	73084 9955337	179179	370263	768828	0.191 11.9	0.477 59.6	1.19	2.38	4.77
NMeFOSAA		AveI D	11553 645293	20291 3485214	62536	126051	243219	0.200 12.5	0.500 62.5	1.25	2.50	5.00
Perfluorodecanoic acid		AveI D	22351 1303578	49258 7204089	112759	246930	501263	0.200 12.5	0.500 62.5	1.25	2.50	5.00
NEtFOSAA		AveI D	6710 486525	18512 2427580	40592	115735	180306	0.200 12.5	0.500 62.5	1.25	2.50	5.00
Perfluorooctanesulfonic acid		AveI D	27615 1650720	63815 8888921	157673	327950	638848	0.186 11.6	0.464 58.0	1.16	2.32	4.64
Perfluoroundecanoic acid		AveI D	24647 1588095	56900 8074850	126758	289376	570351	0.200 12.5	0.500 62.5	1.25	2.50	5.00
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid		AveI D	136538 8699280	359717 41242606	869414	1802302	3513622	0.748 46.8	1.87 234	4.68	9.35	18.7
Perfluorononanesulfonic acid		AveI D	18641 1329567	47930 6544668	120127	251821	541963	0.192 12.0	0.481 60.1	1.20	2.41	4.81
Perfluorododecanoic acid		AveI D	20982 1477140	50771 7607949	133034	294155	560209	0.200 12.5	0.500 62.5	1.25	2.50	5.00
Perfluorooctanesulfonamide		AveI D	46842 2893369	117997 13882676	289776	608724	1183430	0.200 12.5	0.500 62.5	1.25	2.50	5.00
Perfluorodecanesulfonic acid		AveI D	27971 2118624	76769 10209671	194517	417454	818086	0.193 12.1	0.483 60.3	1.21	2.41	4.83
Perfluorotridecanoic acid		AveI D	17900 1187208	41072 6275865	115940	247267	449192	0.200 12.5	0.500 62.5	1.25	2.50	5.00

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 460-282979-1 Analy Batch No.: 404842

SDG No.:

Instrument ID: 30729 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/05/2023 09:27 Calibration End Date: 08/05/2023 11:25 Calibration ID: 52413

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid		AveID	192624 12225772	466182 50710886	1160403	2504942	4937820	0.756 47.3	1.89 236	4.73	9.45	18.9
Perfluorotetradecanoic acid		AveID	14519 996073	33838 5243535	89109	200461	391962	0.200 12.5	0.500 62.5	1.25	2.50	5.00
Perfluorododecanesulfonic acid (PFDoS)		AveID	30899 2178961	79723 10544852	207247	428372	862061	0.194 12.1	0.485 60.6	1.21	2.43	4.85
2-(N-methylperfluoro-1-octanesulfonamido) ethanol		AveID	81425 5480883	199686 26664878	491836	1056350	2078534	2.00 125	5.00 625	12.5	25.0	50.0
NMeFOSA		AveID	7266 465404	16599 2229005	43009	90583	173156	0.200 12.5	0.500 62.5	1.25	2.50	5.00
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol		AveID	84877 5651927	206978 28095614	518625	1085574	2129391	2.00 125	5.00 625	12.5	25.0	50.0
N-ethylperfluoro-1-octanesulfonamide		AveID	8592 615323	22354 2927855	55385	117504	231706	0.200 12.5	0.500 62.5	1.25	2.50	5.00
13C4 PFBA	13C3 PFBA	Ave	1205137 1189514	1220167 1036089	1185361	1219163	1147637	10.0 10.0	10.0 10.0	10.0	10.0	10.0
13C5 PFPeA	PFHxA	Ave	349724 347945	325877 365126	329205	335044	335245	5.00 5.00	5.00 5.00	5.00	5.00	5.00
M2-4:2 FTS	PFHxS	Ave	52749 56288	64975 53116	56205	64159	63053	4.69 4.69	4.69 4.69	4.69	4.69	4.69
13C5 PFHxA	PFHxA	Ave	40971 39321	42018 45448	40709	43250	38699	2.50 2.50	2.50 2.50	2.50	2.50	2.50

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 460-282979-1 Analy Batch No.: 404842

SDG No.:

Instrument ID: 30729 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/05/2023 09:27 Calibration End Date: 08/05/2023 11:25 Calibration ID: 52413

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
13C3 PFBS	PFHxS	Ave	440805 413724	442771 359565	416704	419821	386200	2.33 2.33	2.33 2.33	2.33	2.33	2.33
13C3 HFPO-DA	PFHxA	Ave	1113222 1044812	1058263 945827	1071866	1098817	1000776	10.0 10.0	10.0 10.0	10.0	10.0	10.0
13C4 PFHpA	PFHxA	Ave	495586 482038	508703 469324	515940	521019	488715	2.50 2.50	2.50 2.50	2.50	2.50	2.50
M2-6:2 FTS	PFHxS	Ave	34748 30504	28755 29566	29405	37264	24879	4.76 4.76	4.76 4.76	4.76	4.76	4.76
13C8 PFOA	PFOA	Ave	565625 534673	542108 544235	532953	569949	512391	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C3 PFHxS	PFHxS	Ave	470163 462133	478968 413436	448244	458280	449910	2.37 2.37	2.37 2.37	2.37	2.37	2.37
13C9 PFNA	PFNA	Ave	135245 140240	133501 145485	137831	143775	134993	1.25 1.25	1.25 1.25	1.25	1.25	1.25
M2-8:2 FTS	PFHxS	Ave	17356 16199	16082 +++++	15744	17438	16706	4.80 4.80	4.80 +++++	4.80	4.80	4.80
d3-NMeFOSAA	PFOS	Ave	279777 280400	251448 260122	262546	282025	275611	5.00 5.00	5.00 5.00	5.00	5.00	5.00
13C6 PFDA	PFDA	Ave	173508 185348	181036 172522	185716	202324	170102	1.25 1.25	1.25 1.25	1.25	1.25	1.25
d5-NEtFOSAA	PFOS	Ave	272979 237335	257852 260399	240191	263715	229785	5.00 5.00	5.00 5.00	5.00	5.00	5.00
13C8 PFOS	PFOS	Ave	381500 397697	385075 360047	348150	358602	365200	2.40 2.40	2.40 2.40	2.40	2.40	2.40
13C7 PFUnA	PFDA	Ave	165307 170392	171938 158218	167233	174552	159565	1.25 1.25	1.25 1.25	1.25	1.25	1.25
13C2-PFDoDA	PFDA	Ave	141952 148268	149391 153643	152303	147913	143392	1.25 1.25	1.25 1.25	1.25	1.25	1.25
13C8 FOSA	PFOS	Ave	573029 572461	588503 540838	579394	591898	523526	2.50 2.50	2.50 2.50	2.50	2.50	2.50

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 460-282979-1 Analy Batch No.: 404842

SDG No.:

Instrument ID: 30729 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/05/2023 09:27 Calibration End Date: 08/05/2023 11:25 Calibration ID: 52413

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
13C2 PFTeDA	PFDA	Ave	82790 83394	87542 86898	80387	83405	79466	1.25 1.25	1.25 1.25	1.25	1.25	1.25
d7-N-MeFOSE-M	PFOS	Ave	933850 934217	926402 920724	939642	963879	910468	25.0 25.0	25.0 25.0	25.0	25.0	25.0
d3-NMePFOSA	PFOS	Ave	115763 109589	106454 114094	109375	113584	110527	2.50 2.50	2.50 2.50	2.50	2.50	2.50
d9-N-EtFOSE-M	PFOS	Ave	1151705 1152493	1138657 1151560	1122650	1175845	1123697	25.0 25.0	25.0 25.0	25.0	25.0	25.0
d5-NEtPFOSA	PFOS	Ave	124956 122448	116143 117090	109928	126276	118573	2.50 2.50	2.50 2.50	2.50	2.50	2.50

Curve Type Legend
Ave = Average ISTD
AveID = Average isotope dilution

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 460-282979-1 Analy Batch No.: 404842

SDG No.:

Instrument ID: 30729 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/05/2023 09:27 Calibration End Date: 08/05/2023 11:25 Calibration ID: 52413

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-404842/1	23AUG05DCAL-11.d
Level 2	IC 410-404842/2	23AUG05DCAL-02.d
Level 3	IC 410-404842/3	23AUG05DCAL-03.d
Level 4	IC 410-404842/4	23AUG05DCAL-04.d
Level 5	ICISAV 410-404842/5	23AUG05DCAL-05.d
Level 6	IC 410-404842/6	23AUG05DCAL-06.d
Level 7	IC 410-404842/7	23AUG05DCAL-07.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Perfluorobutanoic acid	-11.5 12.4	-7.5	-6.7	0.9	4.0	8.4	30 30	30	30	30	30	30
3:3 FTCA	-2.0 -5.0	4.1	-2.0	-2.4	1.9	5.4	30 30	30	30	30	30	30
Perfluoro-3-methoxypropanoic acid	-6.9 -3.1	-2.6	2.9	5.0	6.7	-2.0	30 30	30	30	30	30	30
Perfluoropentanoic acid	-4.1 -3.6	0.3	-3.7	2.6	6.4	2.1	30 30	30	30	30	30	30
Perfluoro(4-methoxybutanoic acid)	-14.0 -1.6	2.3	0.2	9.6	4.6	-1.1	30 30	30	30	30	30	30
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	-1.1 15.6	-19.9	6.2	-1.5	-10.6	11.2	30 30	30	30	30	30	30
Perfluoro-3,6-dioxaheptanoic acid	3.7 -10.9	-19.1	12.2	-3.3	10.2	7.2	30 30	30	30	30	30	30
Perfluorohexanoic acid	-13.9 5.6	-6.3	-8.0	0.0	11.6	11.0	30 30	30	30	30	30	30
5:3 FTCA	-4.9 +++++	-5.4	4.6	-5.5	3.9	7.4	30	30	30	30	30	30
Perfluorobutanesulfonic acid	-6.3 5.5	-7.2	-7.8	0.2	16.2	-0.6	30 30	30	30	30	30	30
HFPO-DA	1.1 10.0	-3.7	-4.7	-5.4	-0.7	3.3	30 30	30	30	30	30	30
PFEESA	-1.3 -4.6	-4.6	-1.0	-3.6	2.8	12.4	30 30	30	30	30	30	30
Perfluoroheptanoic acid	1.9 8.6	1.1	-5.8	-9.7	0.6	3.4	30 30	30	30	30	30	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	-7.2 3.1	-1.9	-1.8	0.7	4.2	2.8	30 30	30	30	30	30	30

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 460-282979-1 Analy Batch No.: 404842

SDG No.:

Instrument ID: 30729 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/05/2023 09:27 Calibration End Date: 08/05/2023 11:25 Calibration ID: 52413

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	-0.6 -12.3	14.6	-2.1	-16.9	17.6	-0.3	30 30	30	30	30	30	30
Perfluoropentanesulfonic acid	-1.8 14.1	-19.8	2.1	1.6	-0.7	4.5	30 30	30	30	30	30	30
Perfluorooctanoic acid	4.2 6.2	-9.2	-17.1	-0.4	5.1	11.2	30 30	30	30	30	30	30
Perfluorohexanesulfonic acid	3.6 12.2	-18.3	-3.2	1.1	0.8	3.8	30 30	30	30	30	30	30
7:3 FTCA	1.7 +++++	-0.6	-5.1	-9.9	8.0	5.9	30	30	30	30	30	30
Perfluorononanoic acid	-6.8 4.5	2.4	3.8	-5.3	6.0	-4.4	30 30	30	30	30	30	30
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	0.8 +++++	1.8	0.8	0.1	2.3	-5.8	30	30	30	30	30	30
Perfluoroheptanesulfonic acid	-11.0 10.1	-5.6	2.4	2.7	4.7	-3.3	30 30	30	30	30	30	30
NMeFOSAA	10.1 14.4	-13.9	1.7	-4.6	-5.8	-1.8	30 30	30	30	30	30	30
Perfluorodecanoic acid	13.2 17.4	-4.3	-14.6	-14.2	3.6	-1.1	30 30	30	30	30	30	30
NEtFOSAA	-17.9 -0.3	-4.0	-9.6	17.3	4.9	9.6	30 30	30	30	30	30	30
Perfluorooctanesulfonic acid	1.4 10.7	-7.1	1.5	2.5	-2.0	-7.0	30 30	30	30	30	30	30
Perfluoroundecanoic acid	5.3 15.4	-6.5	-14.3	-6.3	1.0	5.4	30 30	30	30	30	30	30
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	-8.0 4.7	2.0	-2.6	-1.5	5.4	0.0	30 30	30	30	30	30	30
Perfluorononanesulfonic acid	-10.2 6.9	-8.5	1.4	3.2	9.0	-1.7	30 30	30	30	30	30	30
Perfluorododecanoic acid	-2.1 5.0	-10.0	-7.4	5.4	3.5	5.6	30 30	30	30	30	30	30
Perfluorooctanesulfonamide	-0.9 -0.5	-2.8	-3.0	-0.3	9.6	-2.0	30 30	30	30	30	30	30
Perfluorodecanesulfonic acid	-14.6 5.7	-7.1	4.1	8.4	4.3	-0.8	30 30	30	30	30	30	30
Perfluorotridecanoic acid	-0.5 4.3	-13.4	-0.4	6.8	0.7	2.4	30 30	30	30	30	30	30

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 460-282979-1 Analy Batch No.: 404842

SDG No.:

Instrument ID: 30729 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/05/2023 09:27 Calibration End Date: 08/05/2023 11:25 Calibration ID: 52413

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	-3.9 -4.8	-2.2	-3.8	1.2	9.6	3.9	30 30	30	30	30	30	30
Perfluorotetradecanoic acid	-4.2 5.5	-15.5	-3.1	5.1	7.8	4.4	30 30	30	30	30	30	30
Perfluorododecanesulfonic acid (PFDoS)	-10.1 4.1	-8.0	5.8	6.1	4.8	-2.7	30 30	30	30	30	30	30
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	-2.0 4.2	-3.1	-5.9	-1.4	2.7	5.5	30 30	30	30	30	30	30
NMeFOSA	-1.3 -1.7	-1.9	-1.0	0.4	-1.4	6.9	30 30	30	30	30	30	30
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	-2.0 3.8	-3.3	-1.7	-1.8	0.8	4.3	30 30	30	30	30	30	30
N-ethylperfluoro-1-octanesulfonamide	-10.8 3.8	-0.1	4.6	-3.4	1.4	4.3	30 30	30	30	30	30	30
13C4 PFBA	1.1 1.0	1.1	-2.5	-2.2	-2.5	4.1	30 30	30	30	30	30	30
13C5 PFPeA	2.2 7.7	-5.9	-0.8	-0.6	1.4	-3.9	30 30	30	30	30	30	30
M2-4:2 FTS	-12.9 -8.1	12.0	-3.7	5.1	5.8	1.8	30 30	30	30	30	30	30
13C5 PFHxA	-1.6 10.1	-0.3	0.8	5.5	-3.8	-10.7	30 30	30	30	30	30	30
13C3 PFBS	3.7 -11.3	8.8	1.7	-2.0	-7.6	6.6	30 30	30	30	30	30	30
13C3 HFPO-DA	5.9 -9.2	-0.5	5.2	6.1	-1.5	-6.0	30 30	30	30	30	30	30
13C4 PFHpA	-0.8 -5.1	0.7	6.6	6.0	1.3	-8.7	30 30	30	30	30	30	30
M2-6:2 FTS	9.6 -2.3	-5.3	-3.8	16.6	-20.2	5.4	30 30	30	30	30	30	30
13C8 PFOA	-3.7 3.8	21.8	1.1	0.1	-8.9	-14.1	30 30	30	30	30	30	30
13C3 PFHxS	0.1 -7.7	6.5	-1.0	-3.1	-2.6	7.8	30 30	30	30	30	30	30
13C9 PFNA	-2.0 1.0	-7.7	1.5	2.7	1.6	2.9	30 30	30	30	30	30	30

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 460-282979-1 Analy Batch No.: 404842

SDG No.:

Instrument ID: 30729 GC Column: Gemini C18 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/05/2023 09:27 Calibration End Date: 08/05/2023 11:25 Calibration ID: 52413

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
M2-8:2 FTS	1.6 +++++	-1.7	-4.4	1.3	-0.6	3.9	30	30	30	30	30	30
d3-NMeFOSAA	-2.1 -4.9	-7.8	-0.1	6.1	1.9	6.8	30 30	30	30	30	30	30
13C6 PFDA	-1.8 -12.2	2.8	5.2	6.4	-6.5	6.2	30 30	30	30	30	30	30
d5-NEtFOSAA	2.6 2.4	1.6	-1.8	6.7	-8.7	-2.9	30 30	30	30	30	30	30
13C8 PFOS	-2.7 -4.0	2.9	-3.4	-1.6	-1.6	10.4	30 30	30	30	30	30	30
13C7 PFUnA	1.7 -12.4	6.2	3.0	-0.2	-4.6	6.2	30 30	30	30	30	30	30
13C2-PFDoDA	-1.6 -4.2	4.0	5.7	-4.7	-3.4	4.1	30 30	30	30	30	30	30
13C8 FOSA	-4.5 -5.7	2.8	5.1	6.2	-7.7	3.9	30 30	30	30	30	30	30
13C2 PFTeDA	1.9 -3.7	8.2	-0.9	-4.5	-4.9	4.0	30 30	30	30	30	30	30
d7-N-MeFOSE-M	-5.3 -2.4	-1.6	3.6	5.1	-2.4	3.1	30 30	30	30	30	30	30
d3-NMePFOSA	-1.6 1.3	-5.2	1.1	3.8	-0.7	1.4	30 30	30	30	30	30	30
d9-N-EtFOSE-M	-4.9 -0.6	-1.4	0.8	4.4	-1.9	3.6	30 30	30	30	30	30	30
d5-NEtPFOSA	-1.0 -3.0	-3.5	-5.2	7.7	-0.7	5.6	30 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-11.d
Lims ID: IC CAL 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 05-Aug-2023 11:25:28 ALS Bottle#: 20002 Worklist Smp#: 1
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: IC CAL 1
Misc. Info.: Plate: 1 Rack: 1 410-0090708-001
Operator ID: US19_USR_INS20263 Instrument ID: 30729
Sublist: chrom-PFAS_30729_1633*sub4

Method: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\PFAS_30729_1633.m
Limit Group: LC - 1633 ICAL
Last Update: 05-Aug-2023 12:06:54 Calib Date: 05-Aug-2023 11:25:28
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-11.d

Column 1 : Det: EXP1
Process Host: CTX1666

First Level Reviewer: UCD3 Date: 05-Aug-2023 11:56:17
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4-PFBA										
216.80 > 171.90	2.933	2.927	0.006	1.000	1205137	10.1		101	70453	
* 3 13C3PFBA										
216.00 > 172.00	2.933	2.927	0.006		734216	5.00			1469	
1 PFBA										
212.80 > 168.90	2.925	2.939	-0.014	0.997	71260	0.7081		88.5	408	
5 3:3 FTCA										a
241.00 > 177.00	3.156	3.163	-0.007	0.916	6214	0.9798	Target=1.07	98.0	450	a
241.00 > 117.00	3.205	3.163	0.042	0.000	0		0.00(0.54-1.61)	98.0		
4 PFMPA										
229.00 > 84.90	3.156	3.163	-0.007	0.916	47190	0.3724		93.1	2526	
D 7 13C5 PFPeA										
268.30 > 223.00	3.446	3.439	0.007	0.918	349724	5.11		102	21458	
6 PFPA										a
263.00 > 219.00	3.436	3.442	-0.006	0.997	48581	0.3836	Target=1147.20	95.9	647	a
263.00 > 68.90	3.472	3.442	0.030	0.000	0		0.00(573.60-1720.80)	95.9		
8 PFMBA										
279.00 > 85.10	3.549	3.556	-0.007	1.030	34987	0.3438		86.0	2283	
D 10 13C2-4:2FTS										
329.10 > 80.90	3.629	3.632	-0.003	0.826	52749	4.08	Target=0.30	87.1	2448	
329.10 > 309.00	3.618	3.632	-0.014	0.823	183280		0.29(0.15-0.45)	87.1	11124	
9 4:2FTS										M
327.10 > 307.00	3.629	3.636	-0.007	1.000	22342	0.7419	Target=1.45	98.9	1395	
327.10 > 80.90	3.629	3.636	-0.007	1.000	18467		1.21(0.72-2.17)	98.9	932	M
12 NFDHA										
295.00 > 201.00	3.722	3.728	-0.006	0.992	4763	0.4148	Target=2.02	104	341	
295.00 > 84.90	3.722	3.728	-0.006	0.992	2232		2.13(1.01-3.03)	104	143	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 14 13C5 PFHxA										
318.00 > 273.00	3.753	3.745	0.008	1.000	40971	2.46	Target=14.90	98.4	2638	
318.00 > 120.30	3.743	3.745	-0.002	0.997	3673		11.15(7.45-22.34)	98.4	237	
* 15 13C2 PFHxA										
315.10 > 270.00	3.753	3.745	0.008		238259	2.50	Target=218.11		15468	
315.10 > 119.40	3.743	3.745	-0.002		1041		228.88(109.05-327.16)		59.0	
13 PFHxA										M
313.00 > 269.00	3.743	3.749	-0.006	0.997	15330	0.1722	Target=12.56	86.1	469	
313.00 > 118.90	3.743	3.749	-0.006	0.997	1607		9.54(6.28-18.83)	86.1	98.7	M
16 5:3 FTCA										
341.00 > 237.10	3.848	3.843	0.005	1.025	125167	4.75	Target=2.80	95.1	7377	
341.00 > 217.00	3.848	3.843	0.005	1.025	43220		2.90(1.40-4.19)	95.1	2663	
D 18 13C3 PFBS										
302.10 > 79.90	3.848	3.850	-0.002	0.876	440805	2.42	Target=6.66	104	27449	
302.10 > 98.90	3.848	3.850	-0.002	0.876	68973		6.39(3.33-9.99)	104	4354	
17 PFBS										
298.70 > 79.90	3.848	3.854	-0.006	1.000	19023	0.1663	Target=3.12	93.7	884	
298.70 > 98.80	3.848	3.854	-0.006	1.000	6479		2.94(1.56-4.67)	93.7	434	
D 20 13C3 HFPO-DA										
286.90 > 168.90	3.870	3.861	0.009	1.031	1113222	10.6	Target=27.88	106	66743	
286.90 > 184.90	3.859	3.861	-0.002	1.028	38534		28.89(13.94-41.82)	106	2537	
19 HFPO-DA										M
284.90 > 168.90	3.870	3.877	-0.007	1.000	61648	0.8091	Target=18.47	101	202	
284.90 > 184.90	3.859	3.877	-0.018	0.997	2915		21.15(9.23-27.70)	101	166	M
23 PFEESA										
314.80 > 134.90	4.000	4.006	-0.006	1.066	165099	0.3512	Target=14.12	98.7	10463	
314.80 > 82.90	4.000	4.006	-0.006	1.066	12515		13.19(7.06-21.18)	98.7	330	
D 25 13C4 PFHpA										
367.10 > 322.00	4.010	4.013	-0.003	1.069	495586	2.48		99.2	30440	
24 PFHpA										
363.10 > 319.00	4.000	4.017	-0.017	0.997	38135	0.2038	Target=3.63	102	1229	
363.10 > 169.00	4.000	4.017	-0.017	0.997	9793		3.89(1.81-5.44)	102	623	
26 ADONA										
376.90 > 250.90	4.099	4.105	-0.006	1.059	150888	0.7012	Target=12.35	92.8	5723	
376.90 > 84.80	4.087	4.105	-0.018	1.056	12270		12.30(6.17-18.52)	92.8	741	
D 29 13C2-6:2FTS										
429.10 > 80.90	4.121	4.124	-0.003	0.938	34748	5.21	Target=0.15	110	2160	
429.10 > 409.00	4.110	4.124	-0.014	0.935	185984		0.19(0.07-0.22)	110	11740	
27 6:2FTS										
427.10 > 407.00	4.121	4.127	-0.006	1.000	25186	0.7553	Target=1.66	99.4	1601	
427.10 > 80.90	4.110	4.127	-0.017	0.997	12394		2.03(0.83-2.50)	99.4	793	
28 PFPeS										
349.10 > 79.90	4.143	4.149	-0.006	0.941	36128	0.1847	Target=3.80	98.2	2291	
349.10 > 98.90	4.132	4.149	-0.017	0.938	7032		5.14(1.90-5.70)	98.2	480	
32 PFOA										
413.00 > 369.00	4.242	4.245	-0.003	1.000	23295	0.2084	Target=2.19	104	19.9	
413.00 > 169.00	4.242	4.245	-0.003	1.000	10595		2.20(1.09-3.28)	104	39.4	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 30 13C4 PFOA										
417.10 > 172.00	4.242	4.245	-0.003		24717	2.50			1578	
D 31 13C8 PFOA										
421.10 > 376.00	4.242	4.245	-0.003	1.000	565625	2.41		96.3	35684	
* 35 18O2 PFHxS										
403.00 > 83.90	4.394	4.396	-0.002		416775	2.37			28314	
D 36 13C3 PFHxS										
402.10 > 79.90	4.404	4.396	0.008	1.002	470163	2.37	Target=3.87	100	31625	
402.10 > 98.80	4.394	4.396	-0.002	1.000	112611		4.18(1.93-5.80)	100	7546	
34 PFHxS										
398.70 > 79.90	4.394	4.408	-0.014	0.998	19783	0.1893	Target=3.41	104	92.7	
398.70 > 98.90	4.394	4.408	-0.014	0.998	4746		4.17(1.70-5.11)	104	29.9	
39 PFNA										M
463.00 > 419.00	4.475	4.415	0.060	0.998	16934	0.1863	Target=4.66	93.2	43.7	M
463.00 > 219.00	4.495	4.415	0.080	1.002	5198		3.26(2.33-7.00)	93.2	15.4	
33 7:3 FTCA										
441.00 > 316.90	4.423	4.427	-0.004	1.178	94918	5.08	Target=0.66	102	4918	
441.00 > 336.90	4.413	4.427	-0.014	1.176	127151		0.75(0.33-1.00)	102	5275	
* 37 13C5 PFNA										
468.00 > 423.00	4.475	4.477	-0.002		130728	1.25			8637	
D 38 13C9 PFNA										
472.10 > 427.00	4.485	4.487	-0.002	1.002	135245	1.22		98.0	8942	
D 41 13C2-8:2FTS										
529.10 > 80.90	4.594	4.596	-0.002	1.045	17356	4.88	Target=0.14	102	1175	
529.10 > 509.00	4.584	4.596	-0.012	1.043	102809		0.17(0.07-0.21)	102	5087	
40 8:2FTS										
527.10 > 507.00	4.594	4.599	-0.005	1.000	15710	0.7738	Target=1.18	101	1063	
527.10 > 80.80	4.594	4.599	-0.005	1.000	12296		1.28(0.59-1.77)	101	849	
42 PFHpS										
449.00 > 79.90	4.665	4.669	-0.004	0.931	27286	0.1696	Target=3.61	89.0	1817	
449.00 > 98.80	4.665	4.669	-0.004	0.931	9370		2.91(1.80-5.41)	89.0	614	
D 44 d3-NMeFOSAA										
573.20 > 419.00	4.706	4.707	-0.001	0.940	279777	4.89		97.9	14445	
43 NMeFOSAA										R
570.10 > 419.00	4.716	4.719	-0.003	1.002	11553	0.2203	Target=1.96	110	68.5	R
570.10 > 483.00	4.716	4.719	-0.003	1.002	3832		3.01(0.98-2.93)	110	22.8	
* 46 13C2 PFDA										
515.10 > 470.10	4.762	4.763	-0.001		175266	1.25			12016	
D 47 13C6 PFDA										
519.10 > 474.10	4.762	4.763	-0.001	1.000	173508	1.23		98.2	12117	
45 PFDA										R
512.90 > 469.00	4.762	4.765	-0.003	1.000	22351	0.2264	Target=6.39	113	1173	R
512.90 > 219.00	4.753	4.765	-0.012	0.998	2213		10.10(3.20-9.59)	113	169	
D 49 d5-NEtFOSAA										
589.20 > 419.00	4.859	4.860	-0.001	0.970	272979	5.13		103	13805	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
48 NEtFOSAA										
584.20 > 419.10	4.859	4.871	-0.012	1.000	6710	0.1643	Target=1.68	82.1	44.5	
584.20 > 526.00	4.869	4.871	-0.003	1.002	5182		1.29(0.84-2.52)	82.1	18.6	
* 52 13C4 PFOS										
502.80 > 79.90	5.008	5.009	-0.001		275280	2.40	Target=3.81		14199	
502.80 > 98.90	5.008	5.009	-0.001		71105		3.87(1.91-5.72)		3740	
D 51 13C8 PFOS										
507.10 > 79.90	5.008	5.009	-0.001	1.000	381500	2.33	Target=4.02	97.3	15620	
507.10 > 98.90	4.999	5.009	-0.010	0.998	95820		3.98(2.01-6.03)	97.3	6616	
50 PFOS										M
498.90 > 79.90	5.018	5.021	-0.003	1.002	27615	0.1882	Target=4.56	101	55.3	M
498.90 > 98.80	5.008	5.021	-0.013	1.000	6027		4.58(2.28-6.83)	101	46.9	
D 54 13C7 PFUnA										
570.00 > 525.10	5.138	5.147	-0.009	1.079	165307	1.27		102	8484	
53 PFUnA										
563.10 > 519.00	5.138	5.158	-0.020	1.000	24647	0.2107	Target=11.35	105	1234	
563.10 > 269.10	5.138	5.158	-0.020	1.000	1879		13.12(5.67-17.02)	105	126	
55 9ClFOS										
530.80 > 351.00	5.360	5.371	-0.011	1.385	136538	0.6885	Target=3.22	92.0	7042	
532.80 > 353.00	5.351	5.371	-0.020	1.383	42560		3.21(1.61-4.83)	92.0	2131	
56 PFNS										
548.80 > 79.90	5.469	5.486	-0.017	1.092	18641	0.1727	Target=4.35	89.8	1377	
548.80 > 98.80	5.469	5.486	-0.017	1.092	3712		5.02(2.18-6.53)	89.8	272	
D 58 PFDoDA										
615.10 > 570.00	5.620	5.620	0.0	1.180	141952	1.23		98.4	7831	
57 PFDoA										
613.10 > 569.00	5.620	5.637	-0.017	1.000	20982	0.1958	Target=16.83	97.9	1145	
613.10 > 319.00	5.620	5.637	-0.017	1.000	940		22.32(8.42-25.25)	97.9	77.7	
60 PFOSA										
498.10 > 77.90	5.917	5.917	0.0	1.000	46842	0.1981	Target=57.83	99.1	375	
498.10 > 478.00	5.917	5.917	0.0	1.000	792		59.14(28.91-86.74)	99.1	12.6	
D 59 13C8 FOSA										
506.10 > 77.80	5.917	5.917	0.0	1.181	573029	2.39		95.5	38817	
61 PFDS										
599.00 > 79.90	5.926	5.944	-0.018	1.183	27971	0.1648	Target=4.33	85.4	1558	
599.00 > 98.80	5.926	5.944	-0.018	1.183	6968		4.01(2.16-6.49)	85.4	516	
62 PFTrDA										
663.00 > 619.00	6.061	6.076	-0.015	0.938	17900	0.1990	Target=3.74	99.5	1403	
663.00 > 168.90	6.061	6.076	-0.015	0.938	4989		3.59(1.87-5.60)	99.5	375	
63 11ClFOS										
630.90 > 450.90	6.248	6.272	-0.024	1.614	192624	0.7262	Target=5.39	96.1	12294	
632.90 > 452.90	6.248	6.272	-0.024	1.614	32437		5.94(2.70-8.09)	96.1	2249	
D 65 13C2 PFTeDA										
715.20 > 670.00	6.459	6.468	-0.009	1.356	82790	1.27		102	5220	
64 PFTeDA										
713.10 > 669.00	6.459	6.482	-0.023	1.000	14519	0.1916	Target=3.33	95.8	993	
713.10 > 168.90	6.459	6.482	-0.023	1.000	3822		3.80(1.66-4.99)	95.8	261	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 67 d7-N-Me-FOSE										
623.20 > 58.90	6.682	6.694	-0.012	1.334	933850	23.7		94.7	38080	
68 N-MeFOSE-M										
616.10 > 58.90	6.706	6.706	0.0	1.004	81425	1.96		98.0	600	
66 PFDoS										
699.10 > 79.90	6.694	6.708	-0.014	1.337	30899	0.1745	Target=4.86	89.9	1733	
699.10 > 98.80	6.682	6.708	-0.026	1.334	6071		5.09(2.43-7.28)	89.9	378	
D 69 d3-NMePFOSA										
515.00 > 219.00	6.825	6.825	0.0	1.363	115763	2.46		98.4	6456	
70 NMeFOSA										
511.90 > 219.00	6.825	6.825	0.0	1.000	7266	0.1975	Target=0.79	98.7	128	
511.90 > 169.00	6.825	6.825	0.0	1.000	8658		0.84(0.40-1.18)	98.7	155	
D 71 d9-N-EtFOSE										
639.20 > 58.90	6.960	6.959	0.001	1.390	1151705	23.8		95.1	42264	
72 N-EtFOSE-M										
630.00 > 58.90	6.980	6.979	0.001	1.003	84877	1.96		98.0	900	
D 73 d5-NEtPFOSA										
531.10 > 219.00	7.082	7.081	0.001	1.414	124956	2.48		99.0	5946	
74 N-EtFOSA-M										
526.00 > 219.00	7.082	7.092	-0.010	1.000	8592	0.1785	Target=3.02	89.2	167	
526.00 > 169.00	7.092	7.092	0.0	1.001	3051		2.82(1.51-4.53)	89.2	88.9	

QC Flag Legend

Processing Flags
R - Failed Signal Ratio Test
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

PFC_STD1_1633_00008 Amount Added: 1.00 Units: mL

Report Date: 05-Aug-2023 12:06:59 Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-11.d

Injection Date: 05-Aug-2023 11:25:28 Instrument ID: 30729

Lims ID: IC CAL 1

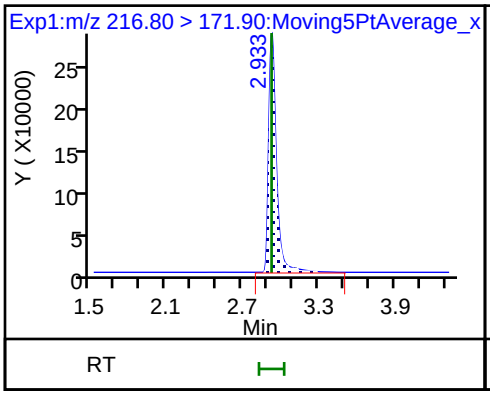
Client ID:

Operator ID: US19_USR_INS20263 ALS Bottle#: 20002 Worklist Smp#: 1

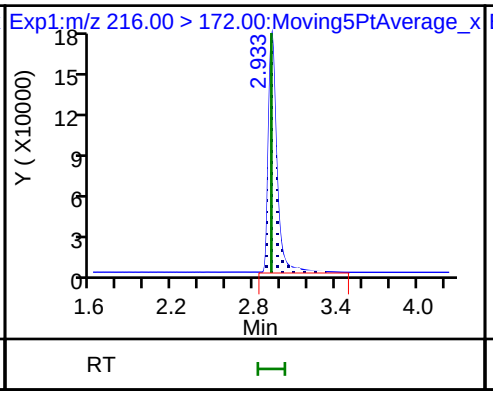
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: PFAS_30729_1633 Limit Group: LC - 1633 ICAL

D 2 13C4-PFBA



* 3 13C3PFBA



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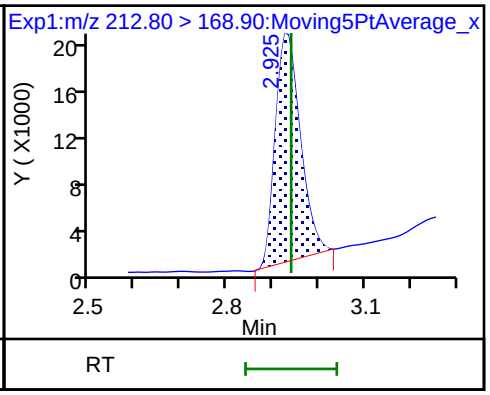

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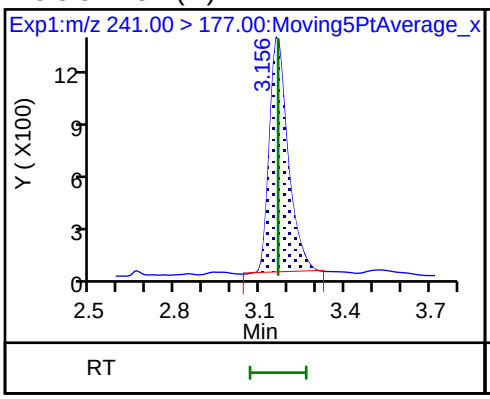

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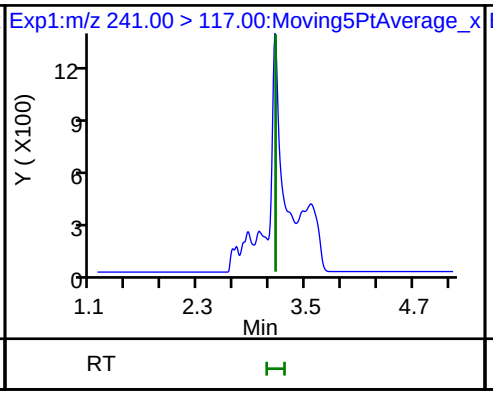

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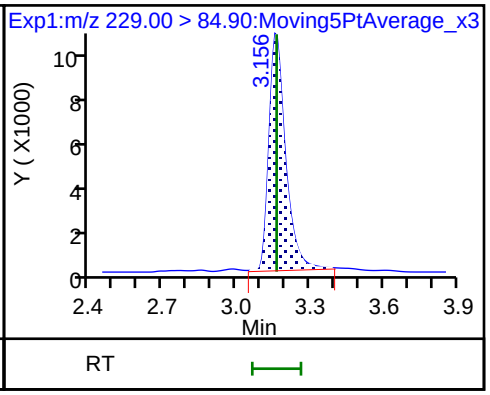
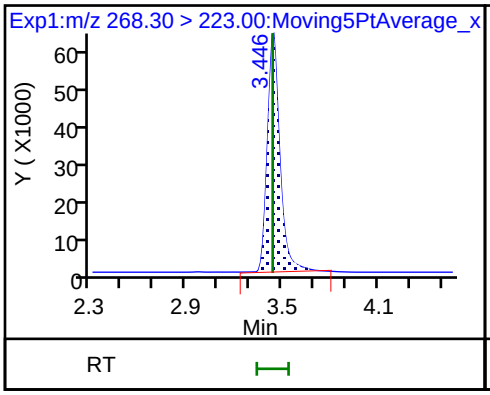


D 7 13C5 PFPeA



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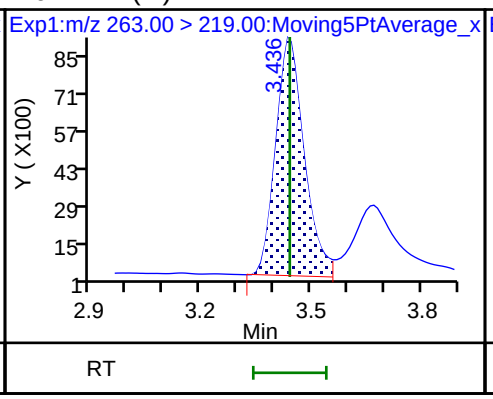

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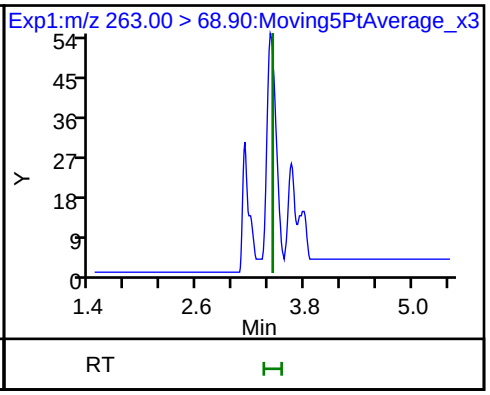

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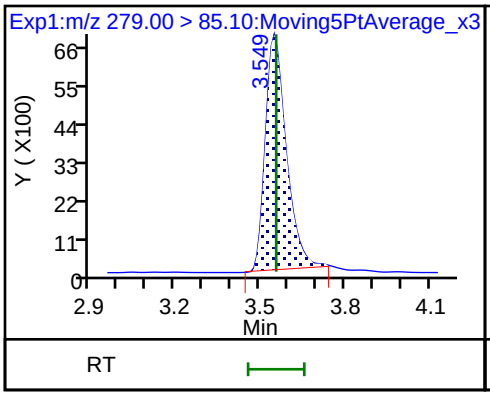

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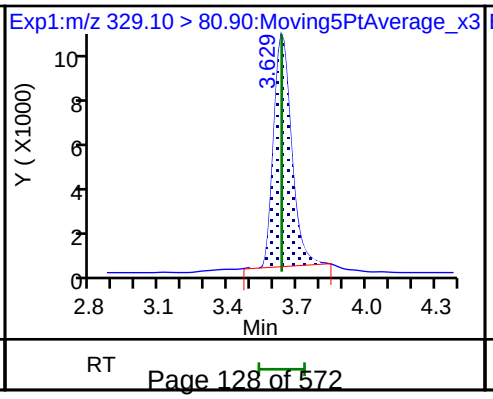

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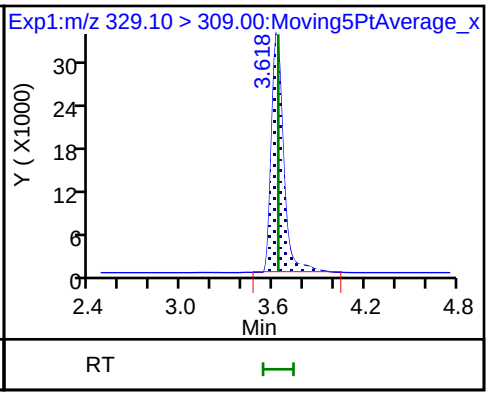

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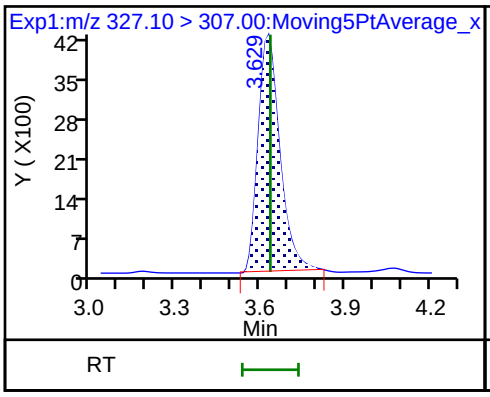

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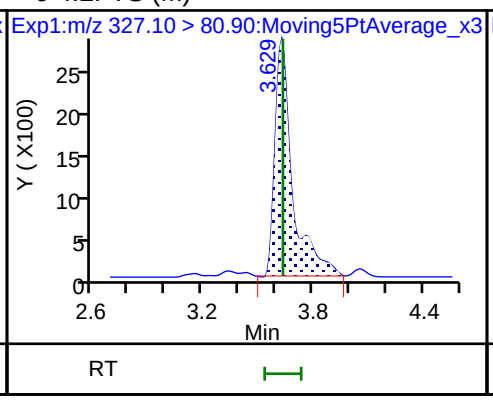

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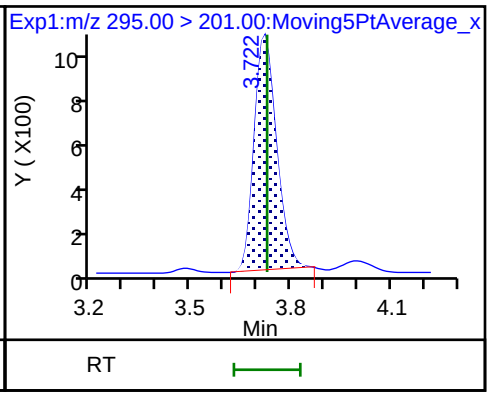

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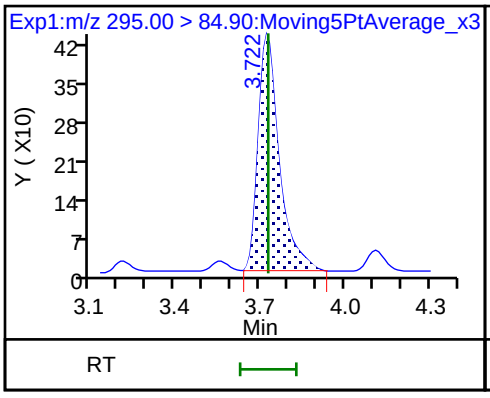

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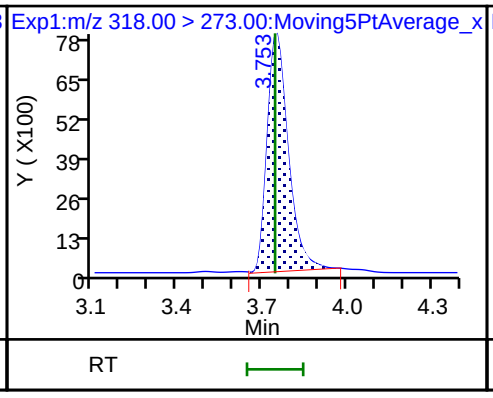

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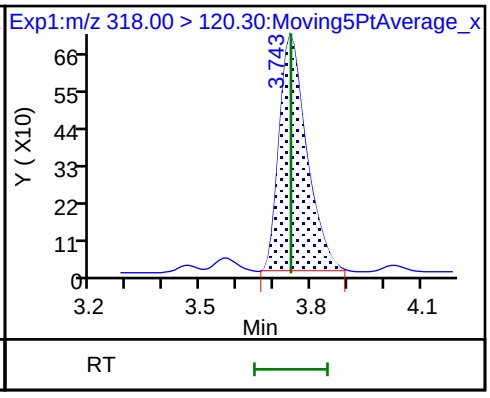

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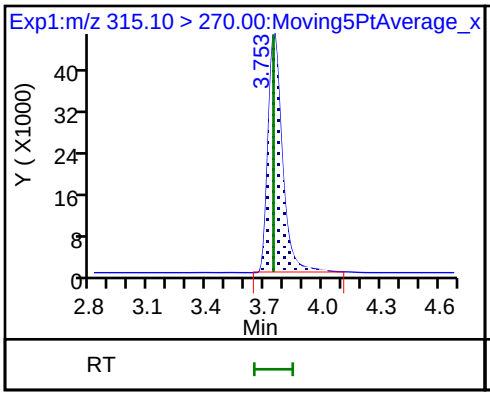

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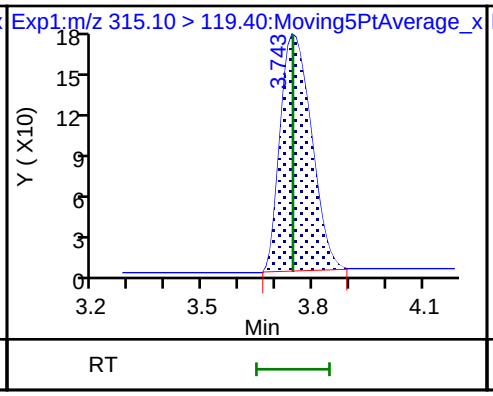

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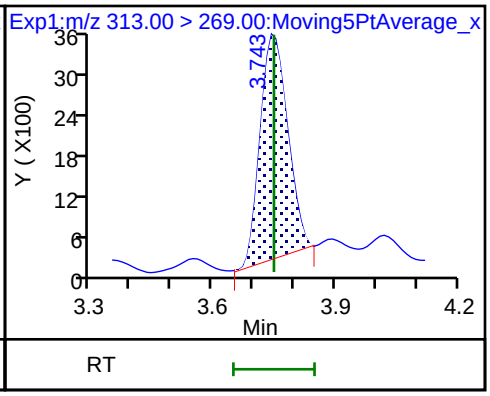

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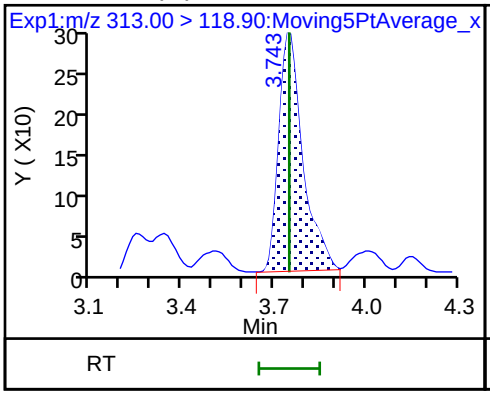

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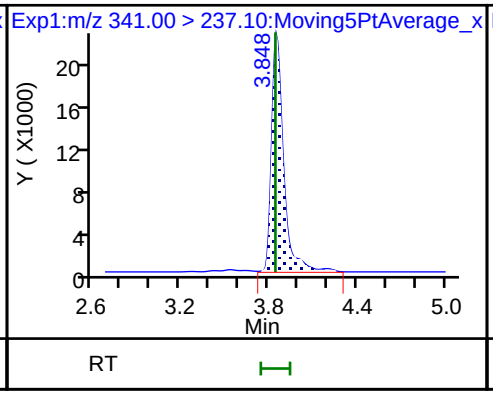
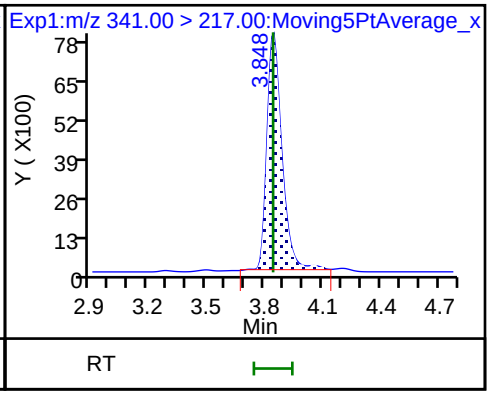


16 5:3 FTCA



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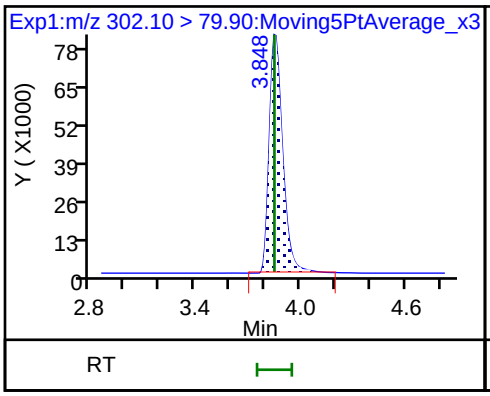

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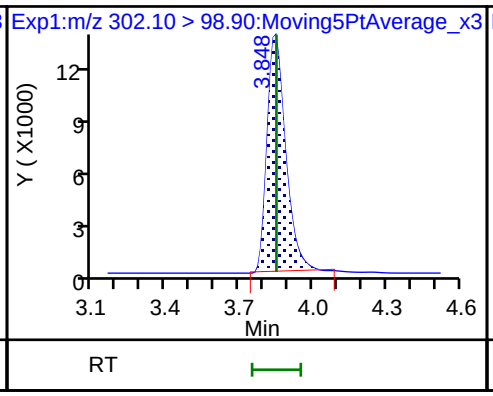

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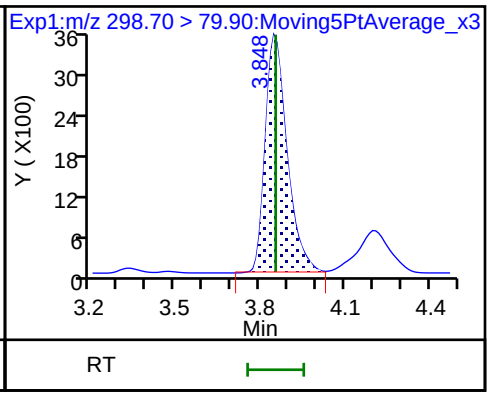

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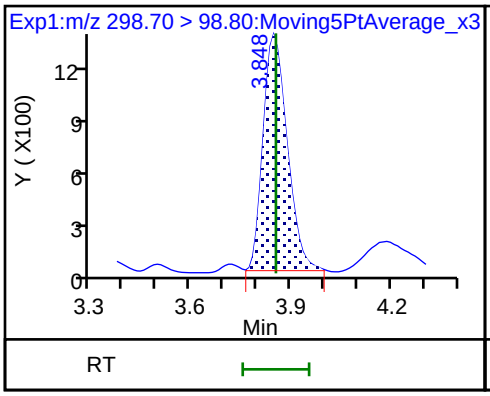

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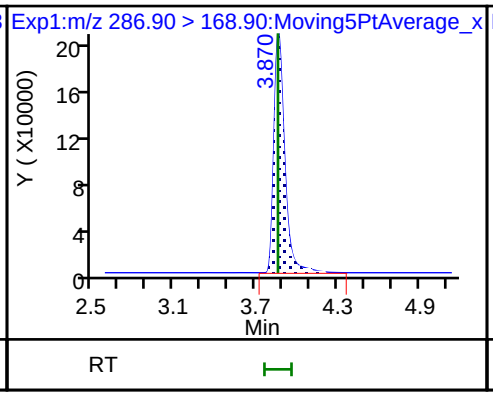

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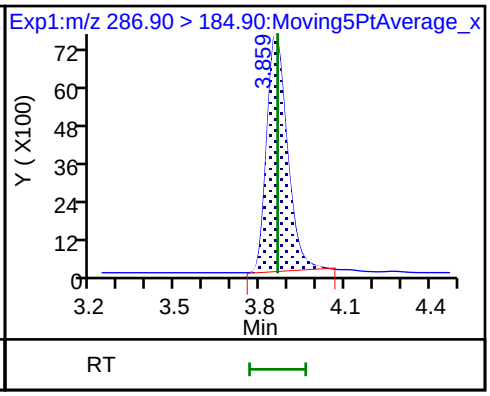

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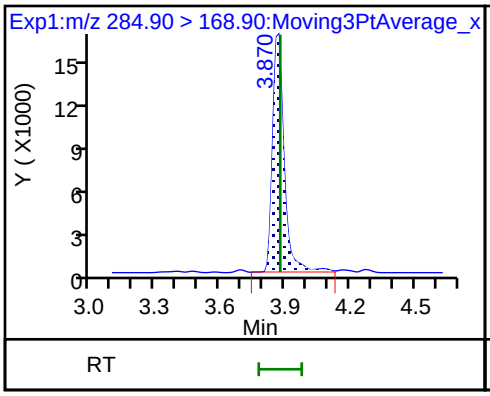

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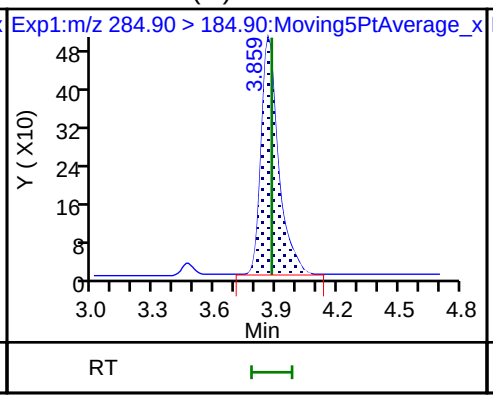

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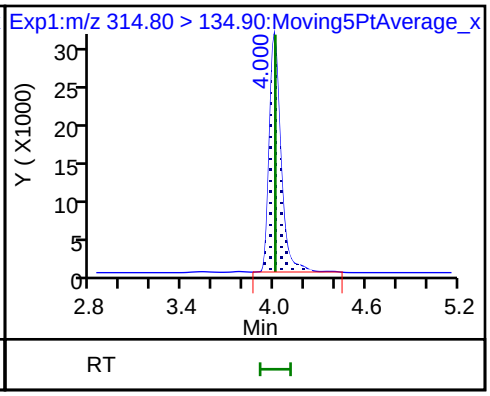

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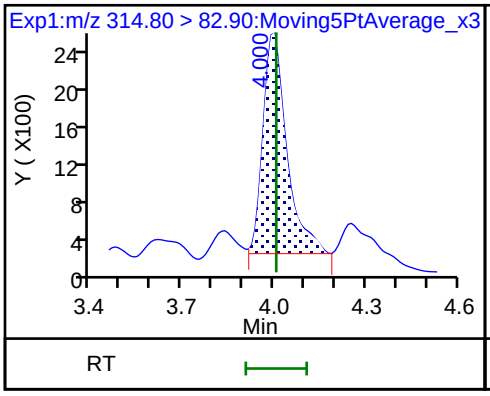

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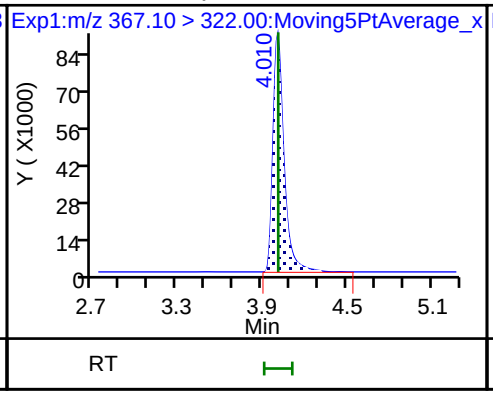

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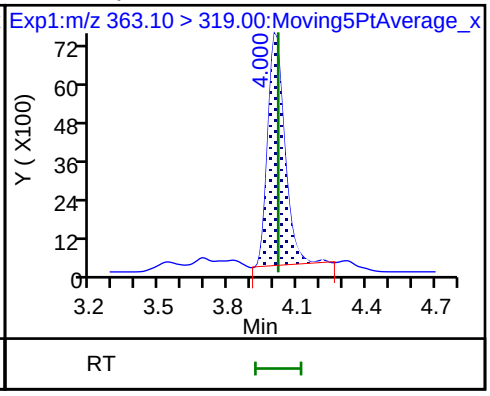

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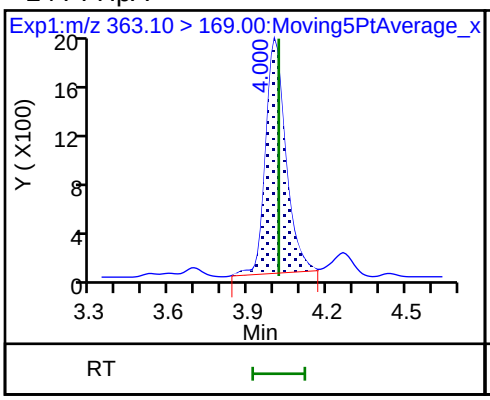

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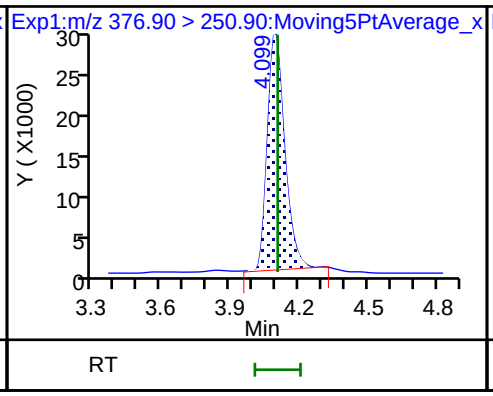

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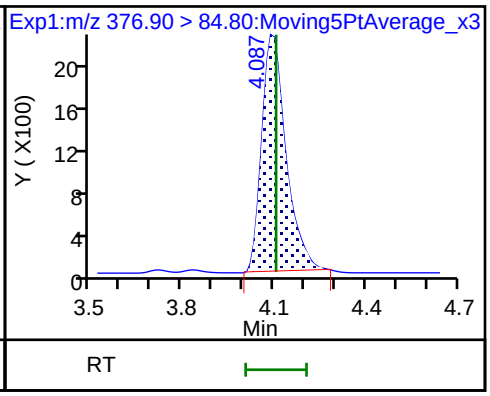

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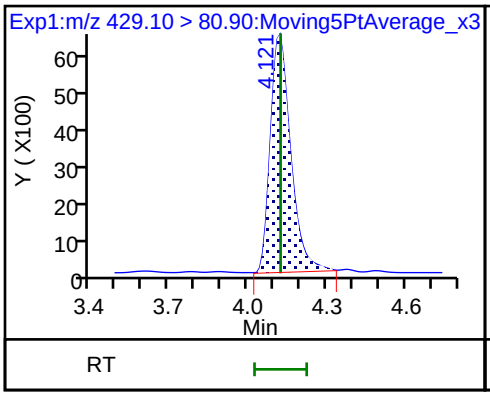

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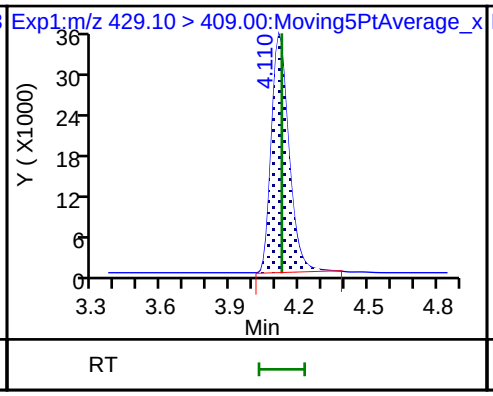

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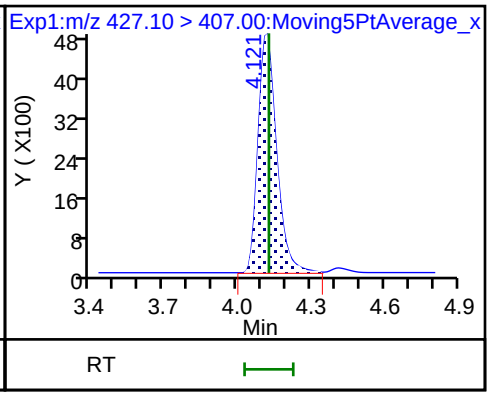

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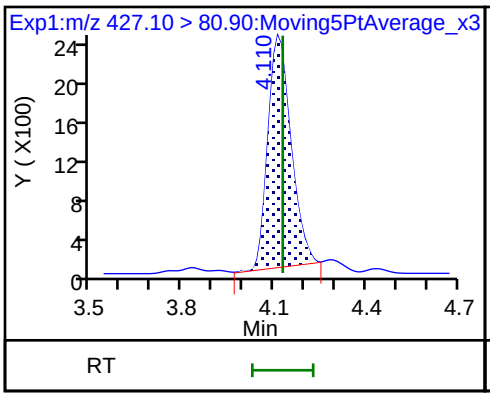

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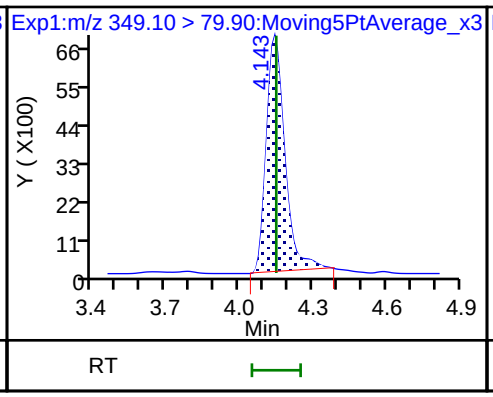

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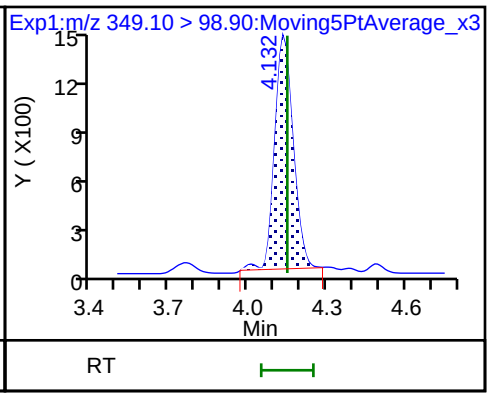

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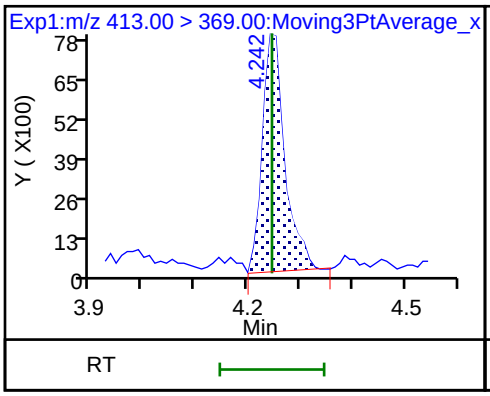

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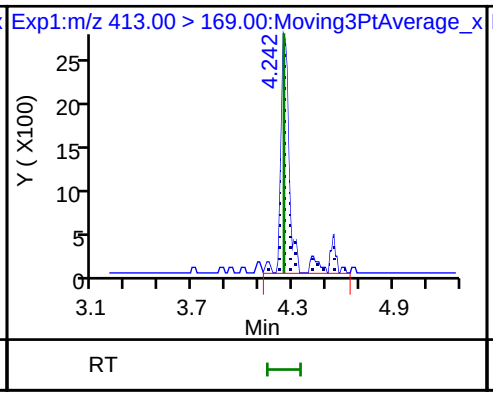
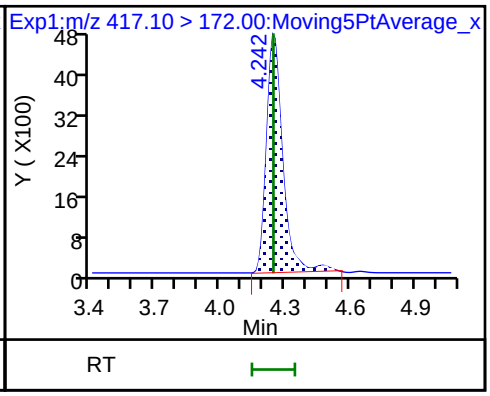


* 30 13C4 PFOA



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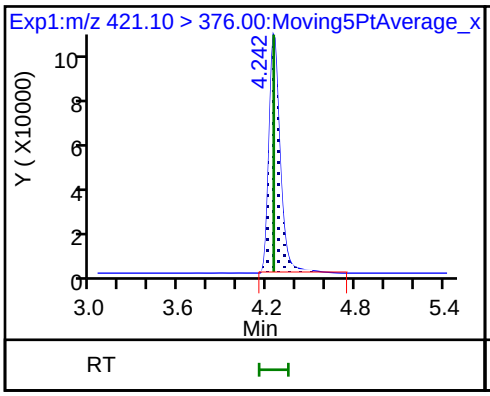

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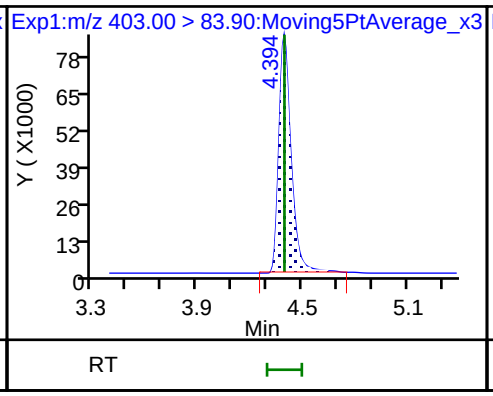

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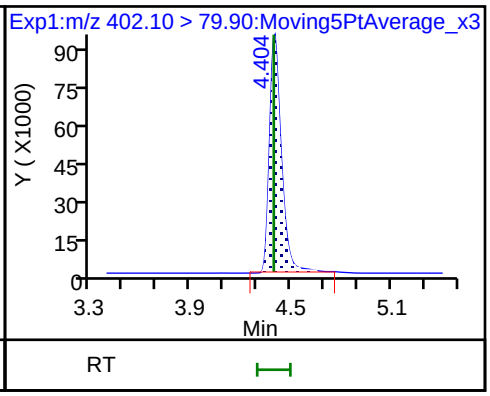

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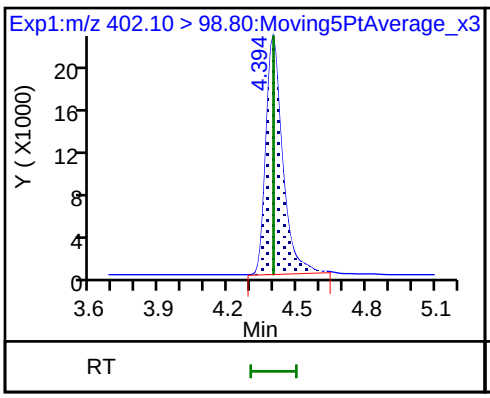

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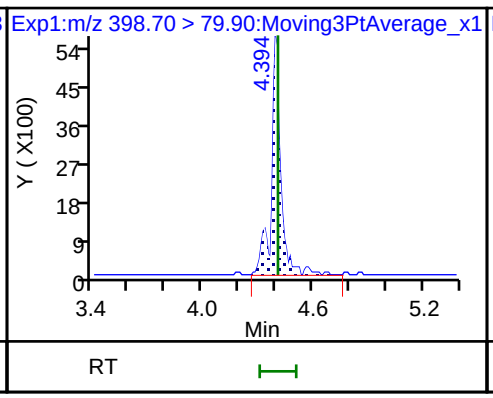

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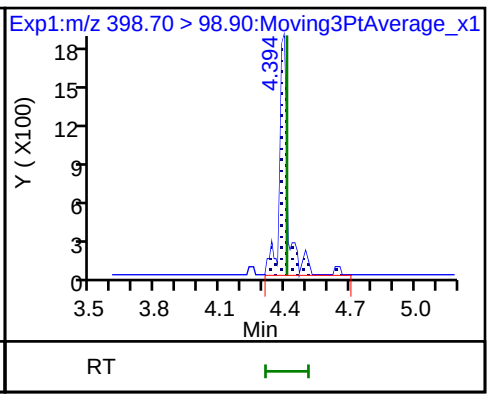

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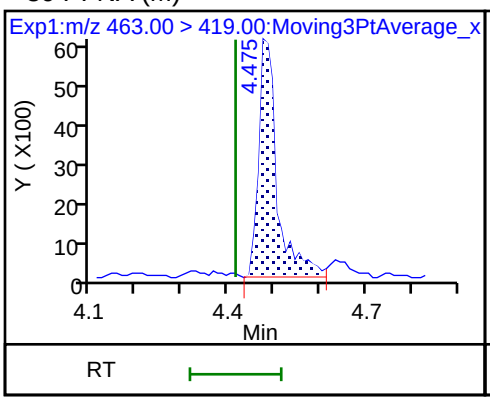

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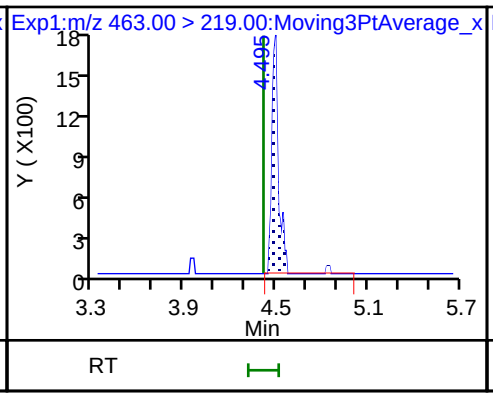

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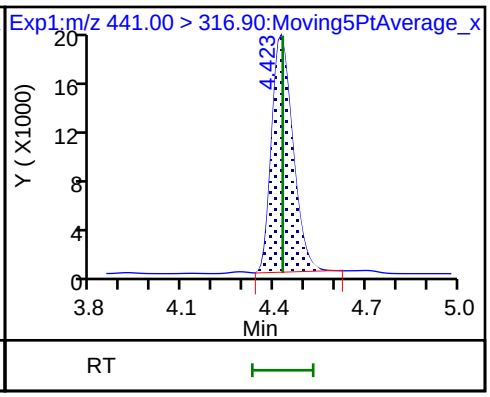

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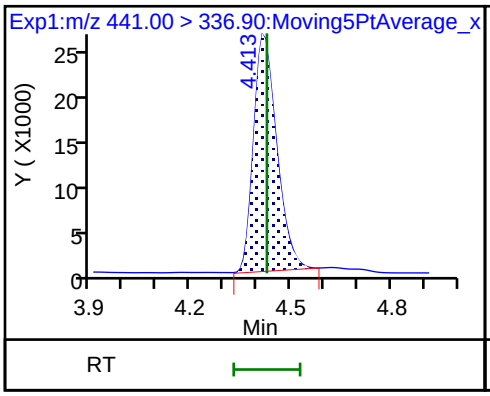

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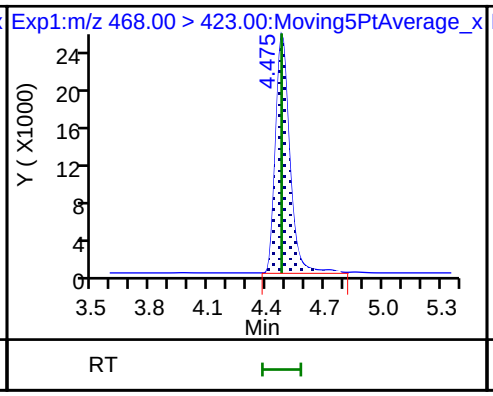

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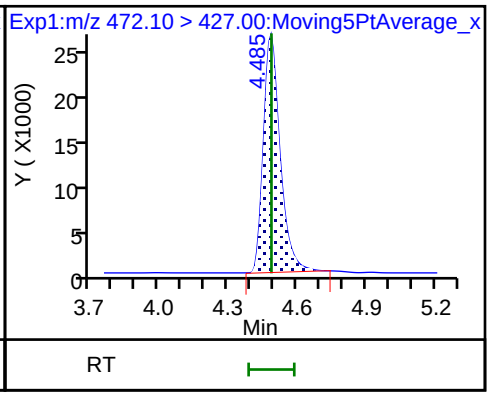

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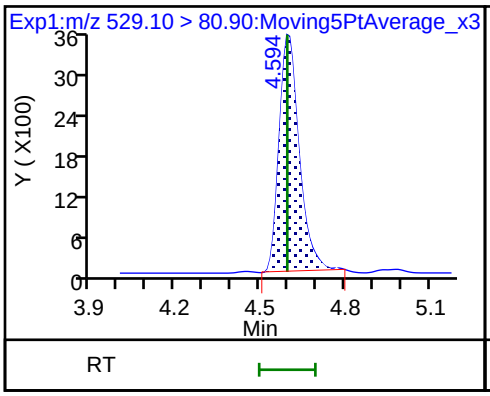

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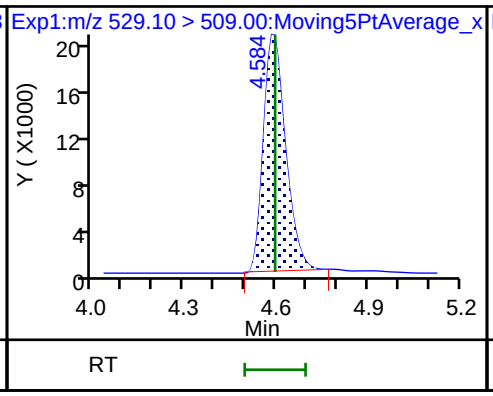

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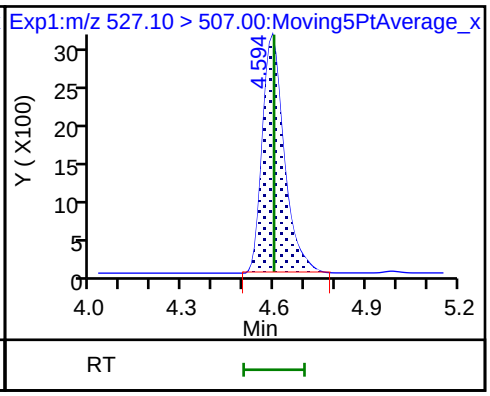

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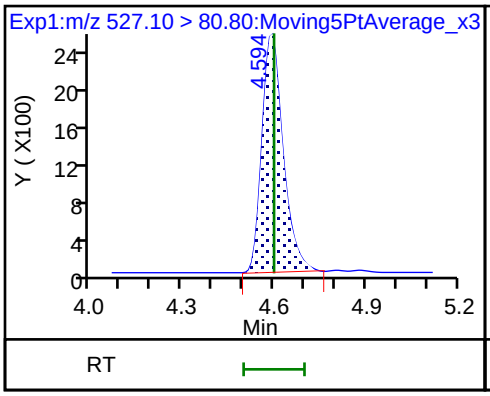

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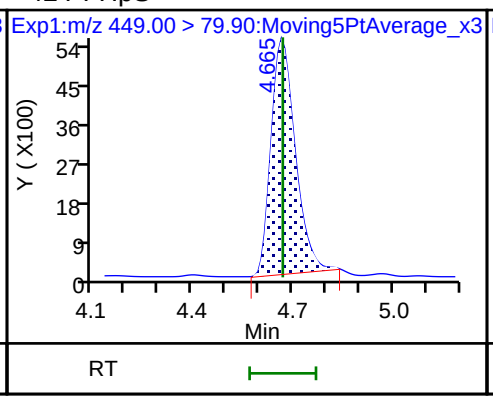

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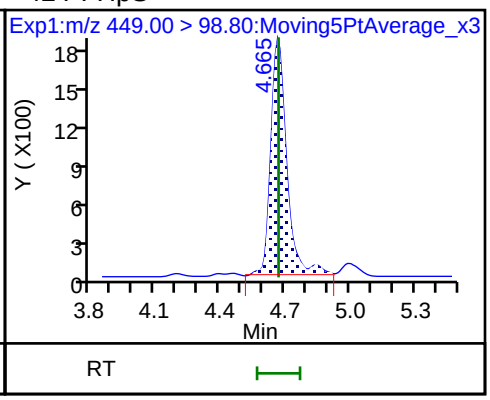

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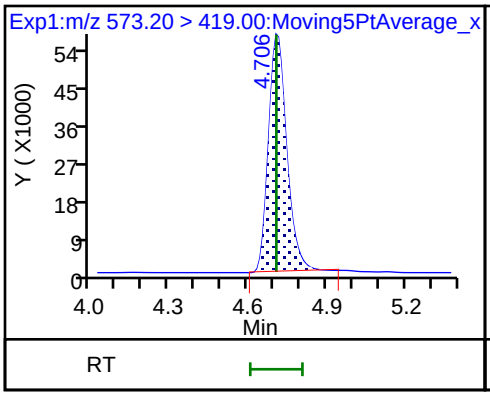

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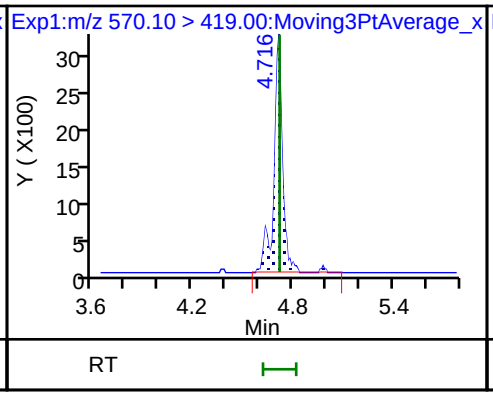

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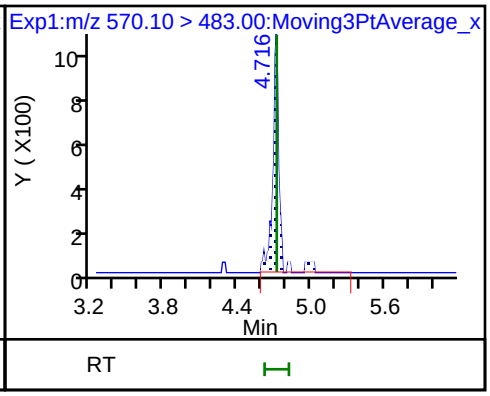

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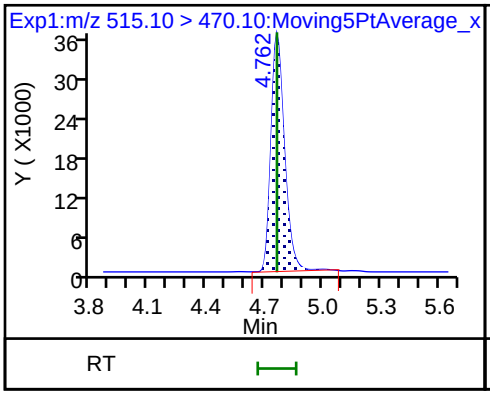

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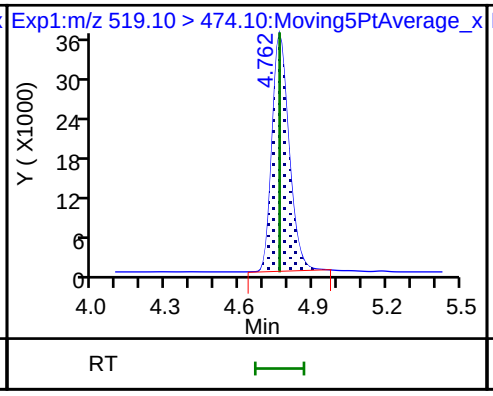

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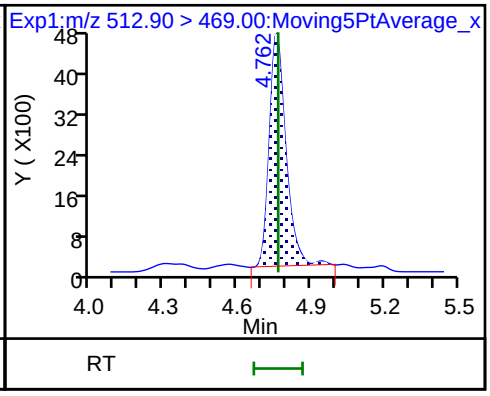

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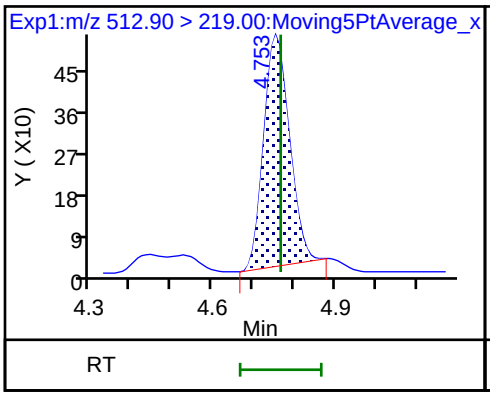

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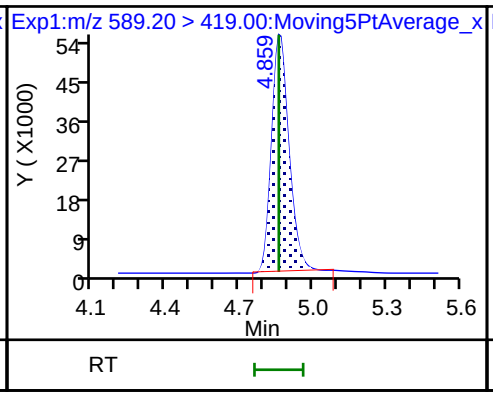

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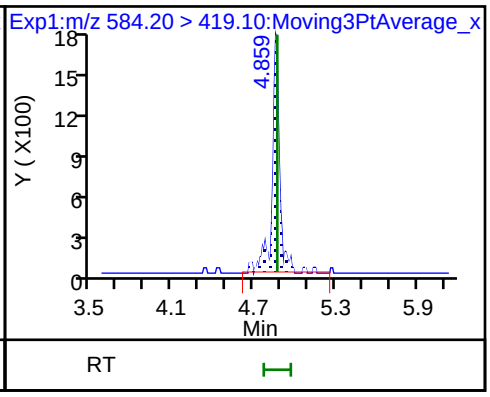

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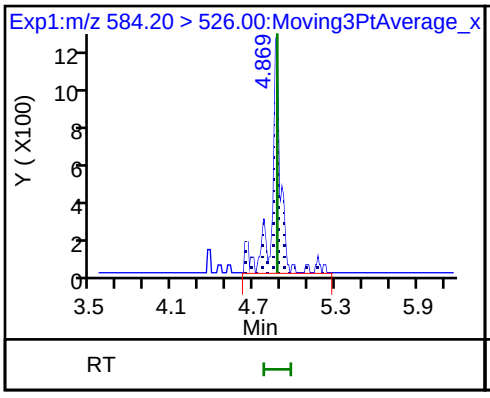

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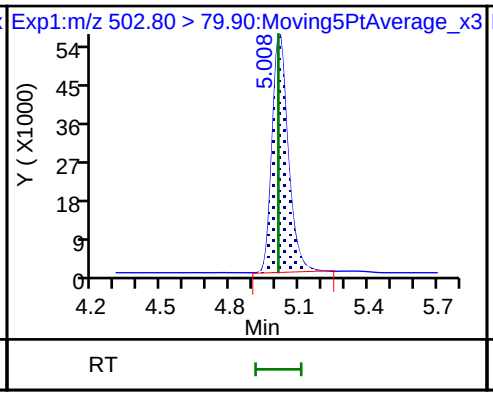

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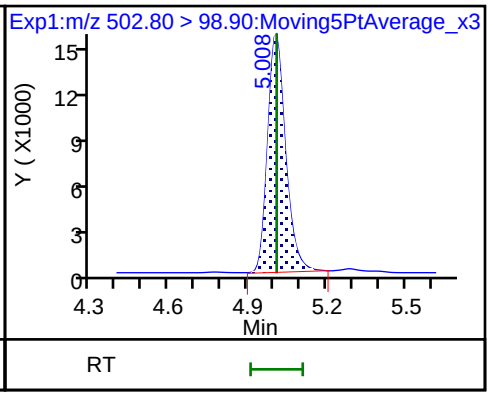

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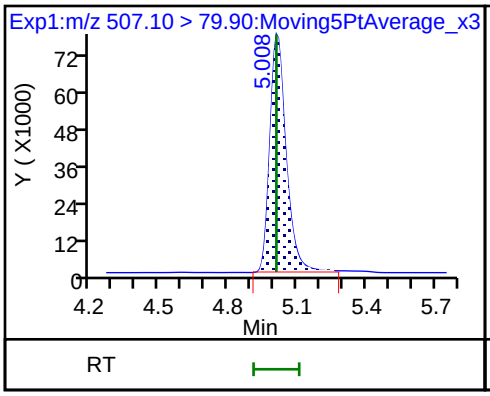

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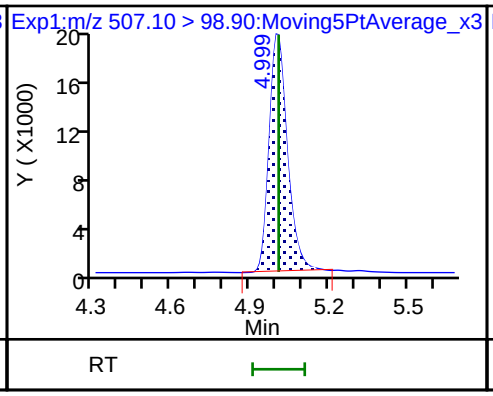

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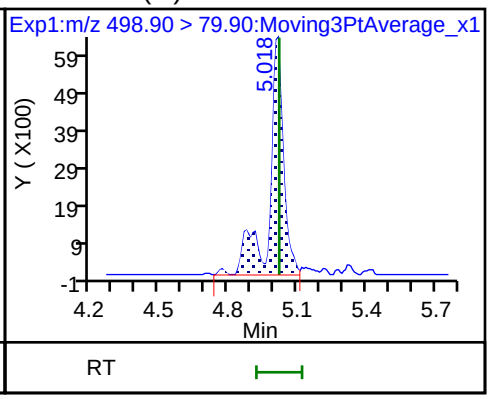
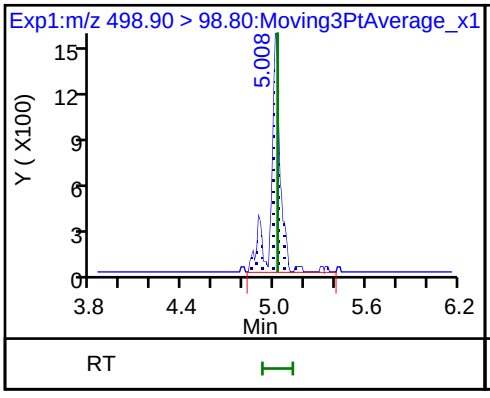


50 PFOS



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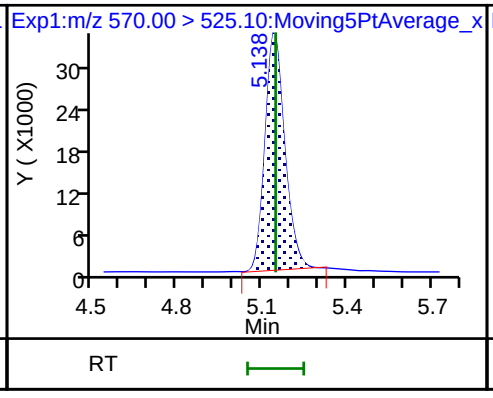

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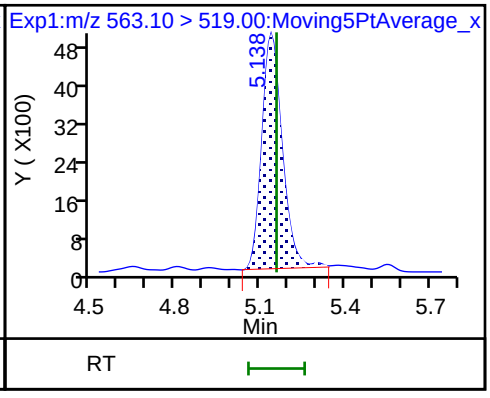

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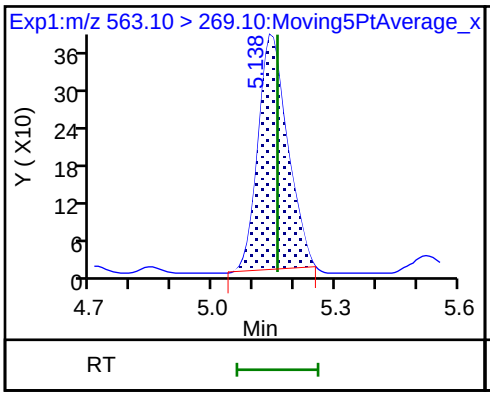
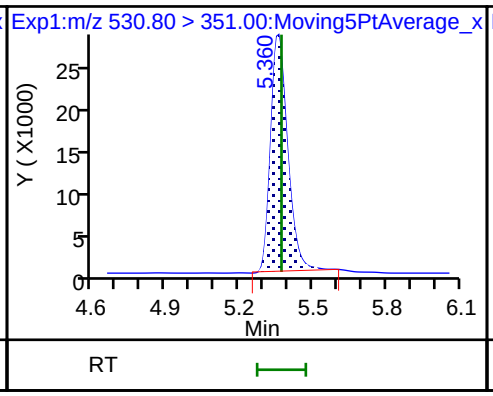


55 9ClFOS



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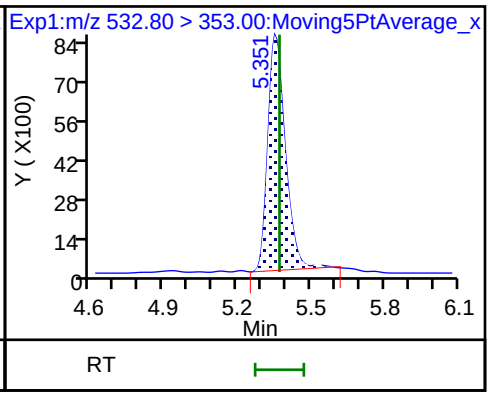

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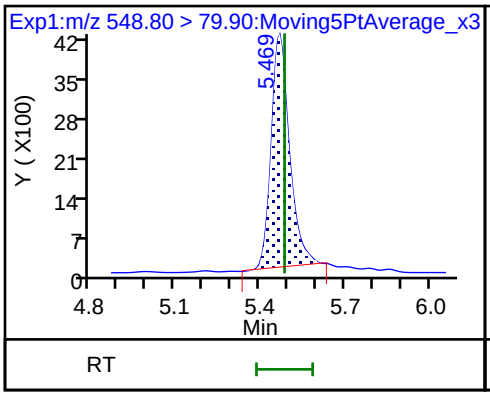

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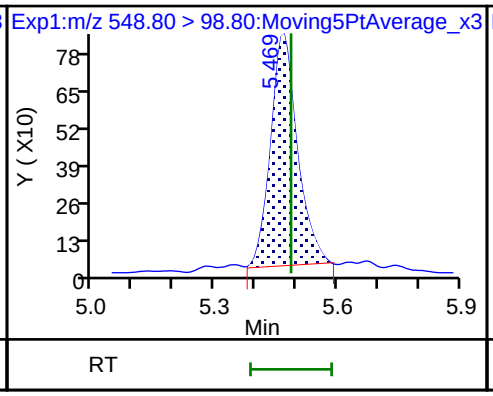

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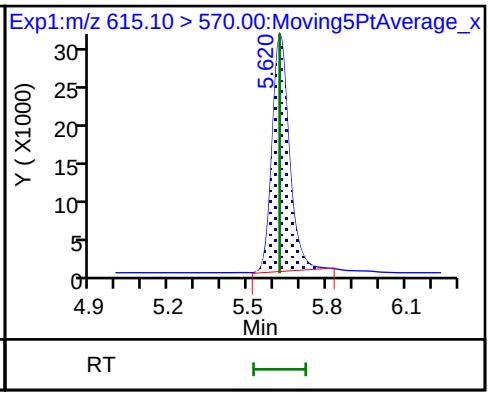

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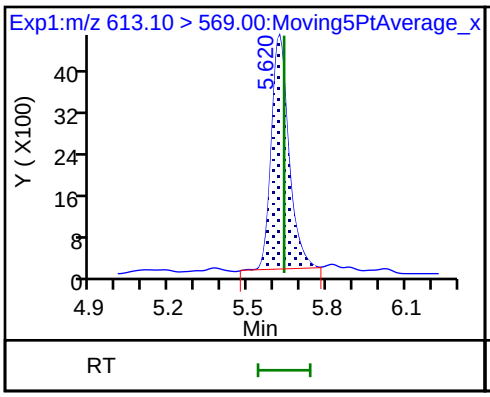

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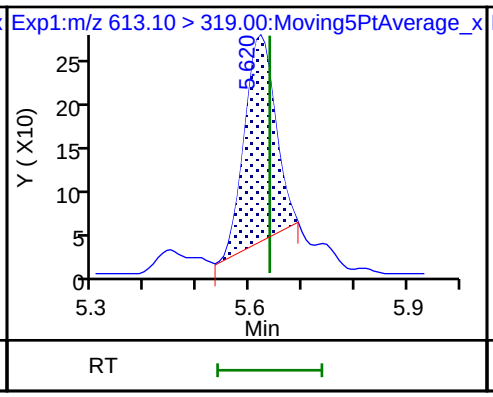

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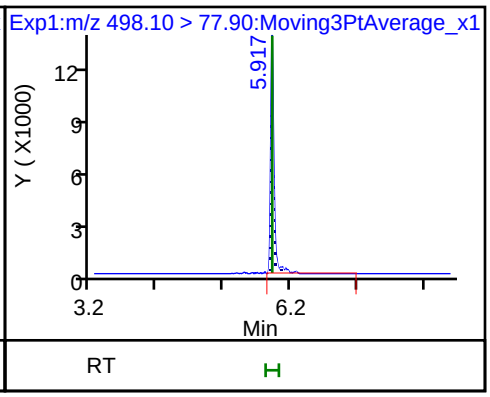

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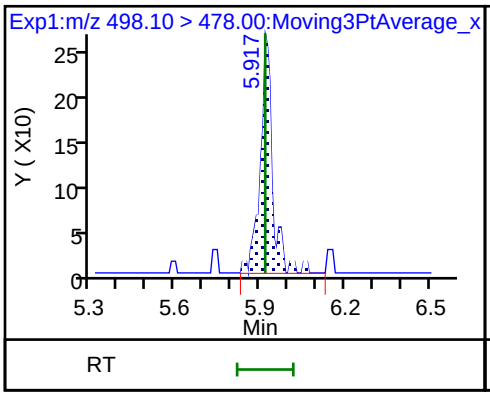

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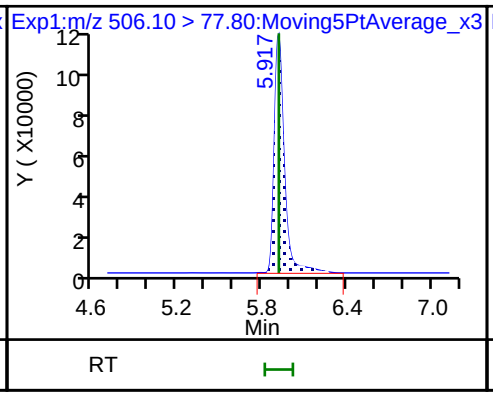
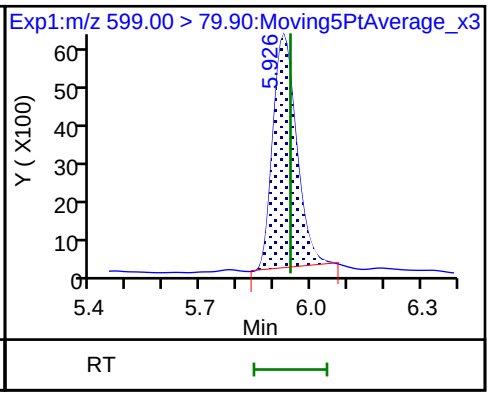


61 PFDS



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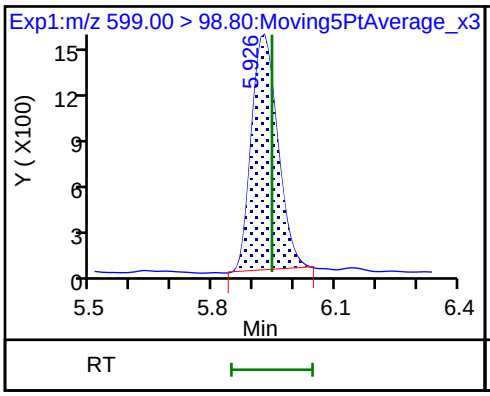

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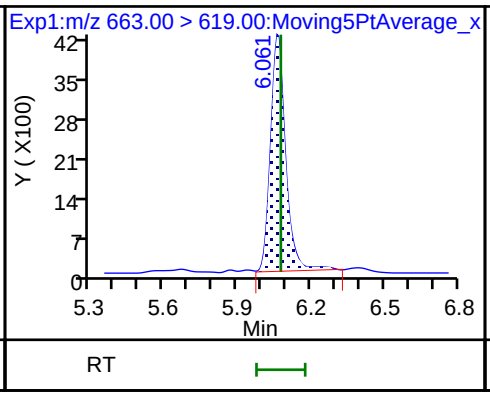

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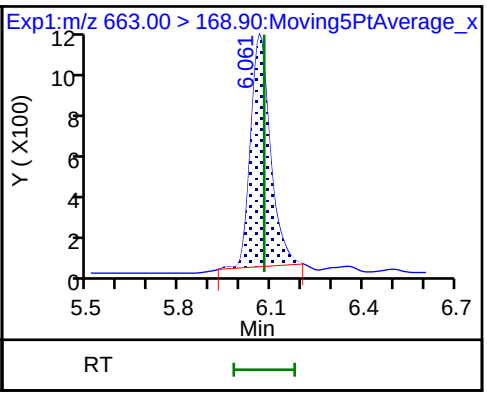
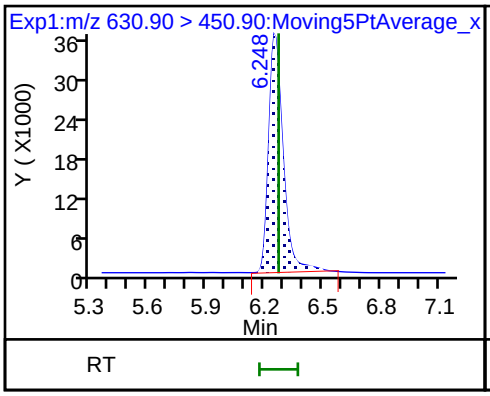
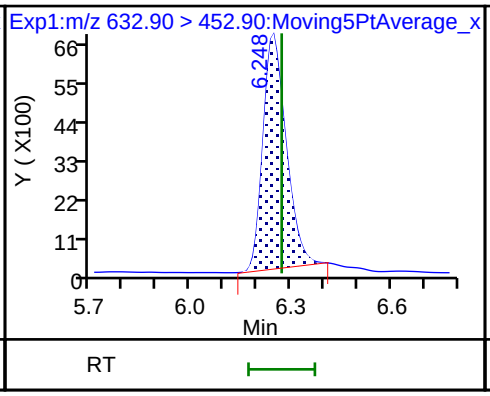


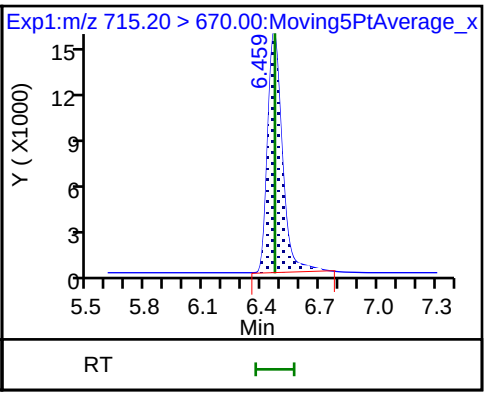
63 11ClFOS



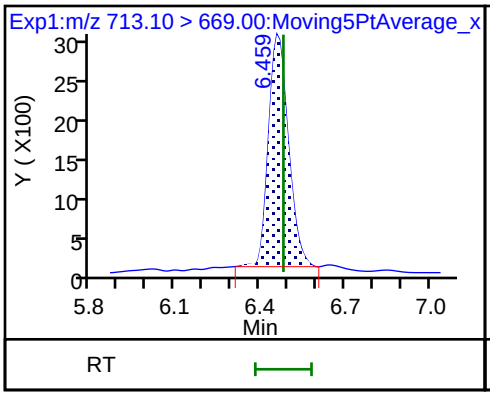
63 11ClFOS



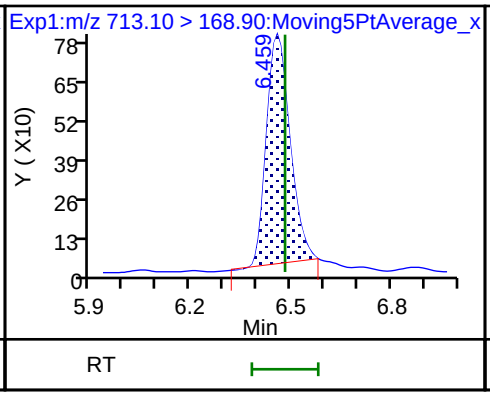
D 65 13C2 PFTeDA



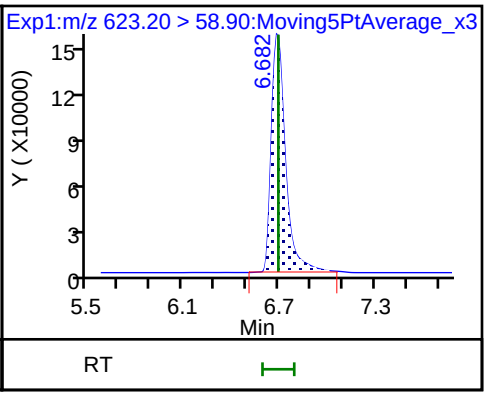
64 PFTeDA



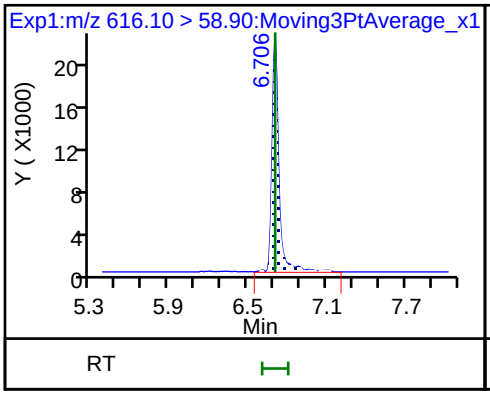
64 PFTeDA



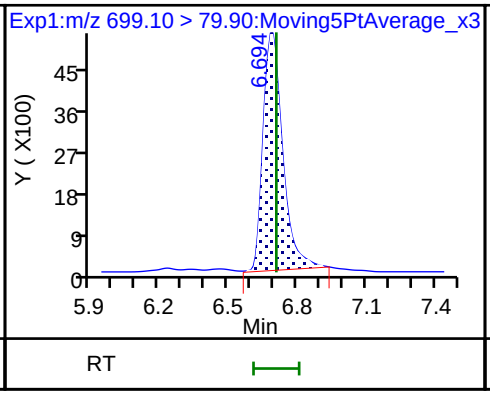
D 67 d7-N-Me-FOSE



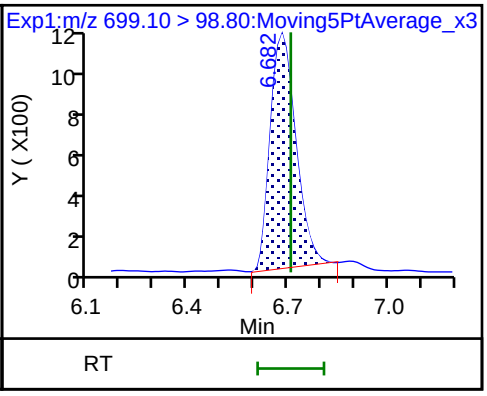
68 N-MeFOSE-M



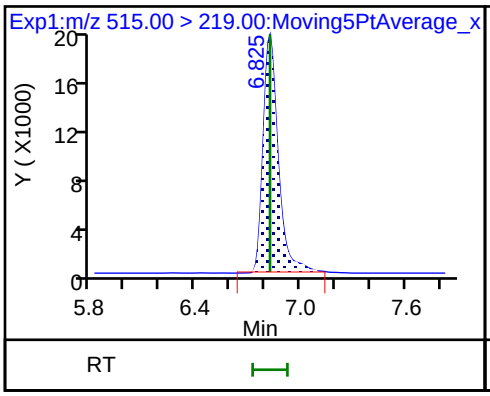
66 PFDoS



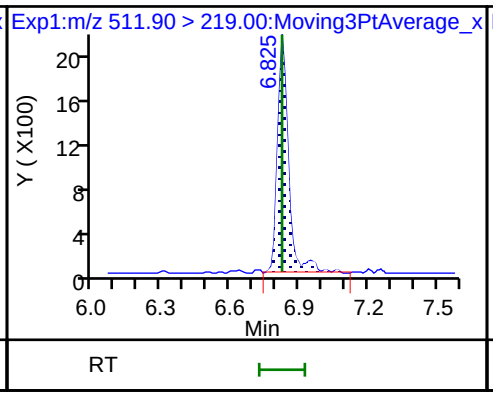
66 PFDoS



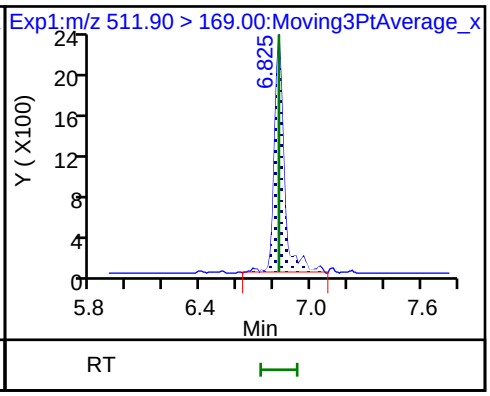
D 69 d3-NMePFOSA



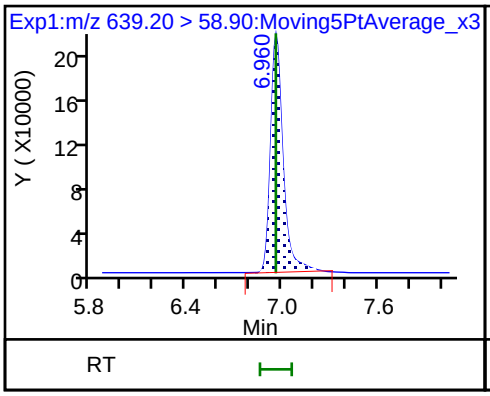
70 NMeFOSA



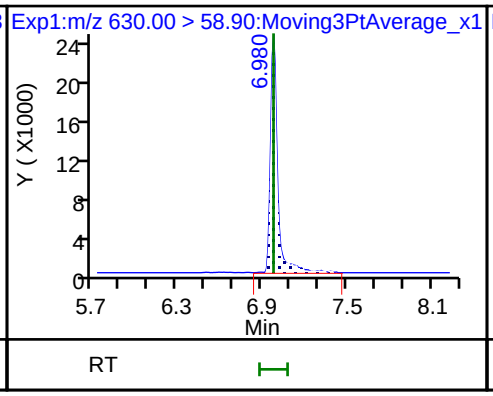
70 NMeFOSA



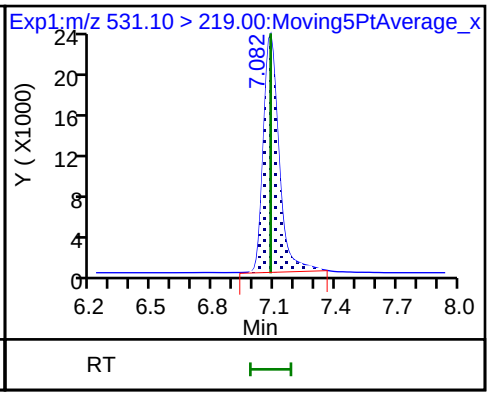
D 71 d9-N-EtFOSE



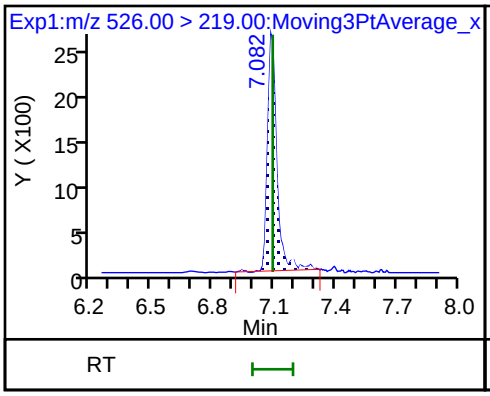
72 N-EtFOSE-M



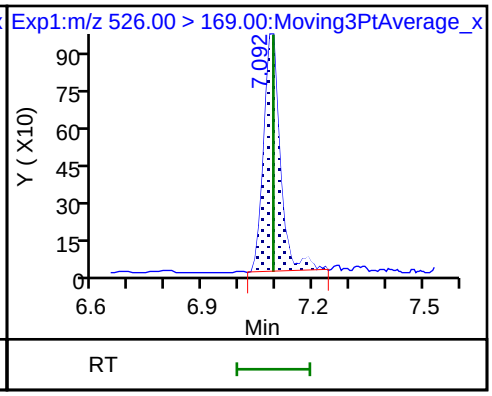
D 73 d5-NEtPFOSA



74 N-EtFOSA-M



74 N-EtFOSA-M



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

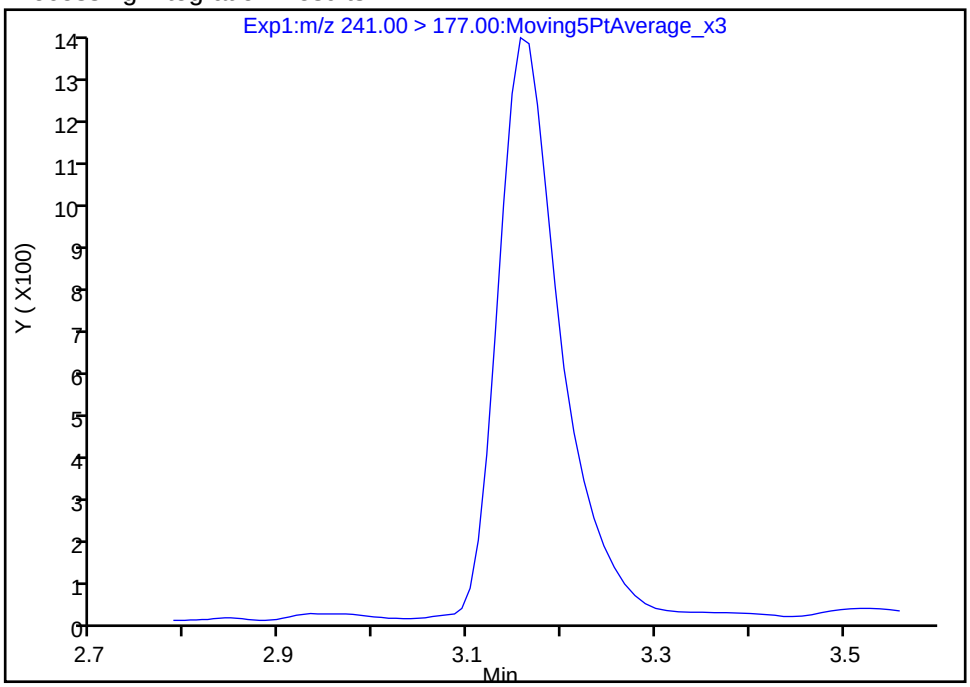
Data File:	\\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-11.d				
Injection Date:	05-Aug-2023 11:25:28	Instrument ID:	30729		
Lims ID:	IC CAL 1				
Client ID:					
Operator ID:	US19_USR_INS20263	ALS Bottle#:	20002	Worklist Smp#:	1
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

5 3:3 FTCA, CAS: 356-02-5

Signal: 1

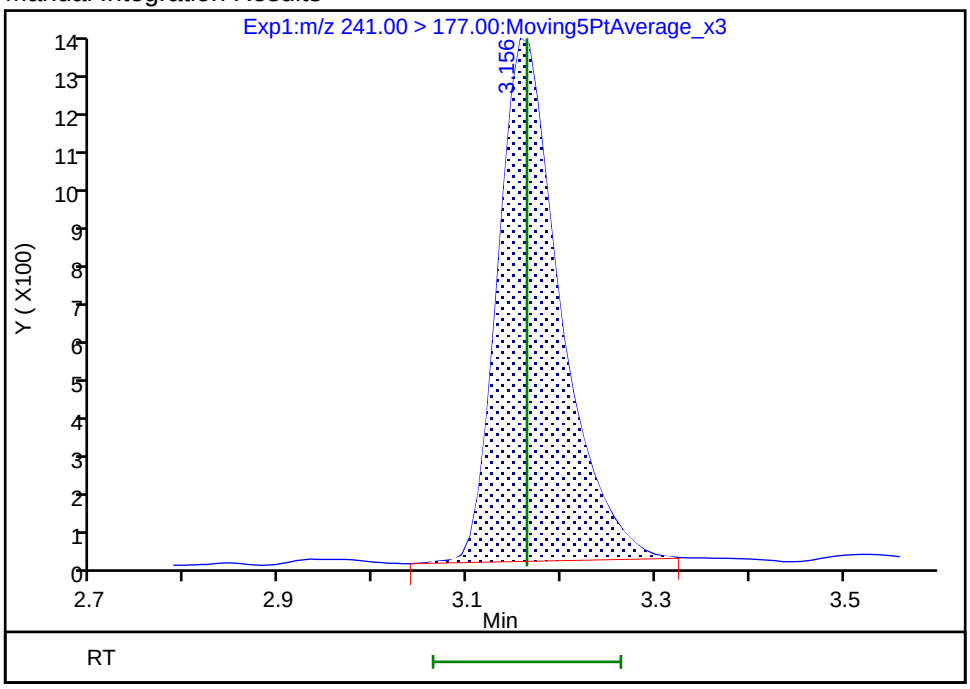
Not Detected
Expected RT: 3.16

Processing Integration Results



Manual Integration Results

RT: 3.16
Area: 6214
Amount: 0.979793
Amount Units: ng/ml



Reviewer: UCD3, 05-Aug-2023 11:43:03 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

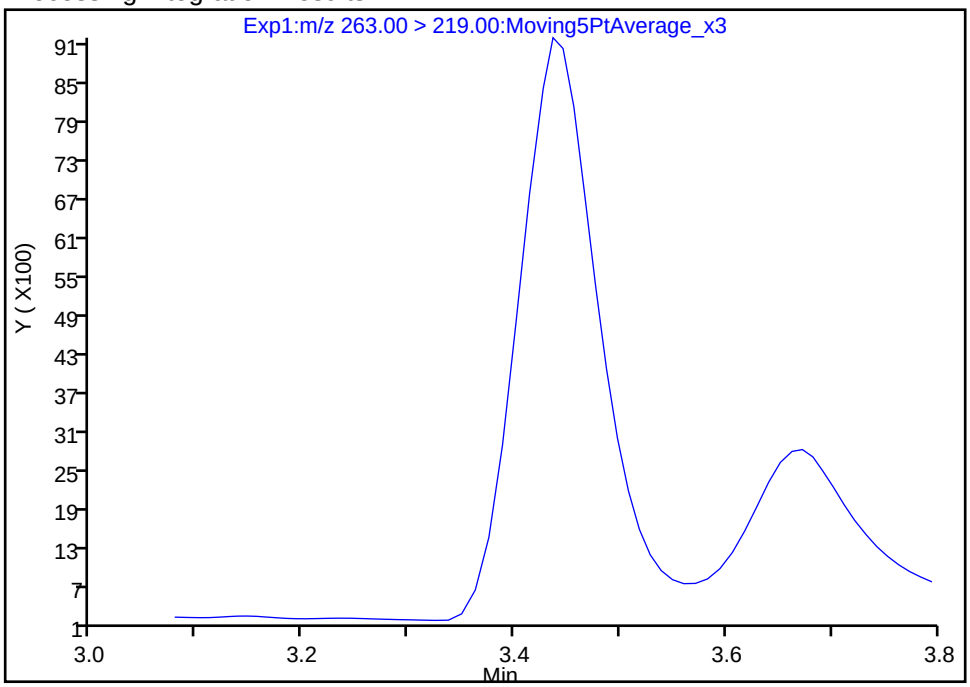
Data File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-11.d
Injection Date: 05-Aug-2023 11:25:28 Instrument ID: 30729
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20263 ALS Bottle#: 20002 Worklist Smp#: 1
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: PFAS_30729_1633 Limit Group: LC - 1633 ICAL
Column: Detector EXP1

6 PFPA, CAS: 2706-90-3

Signal: 1

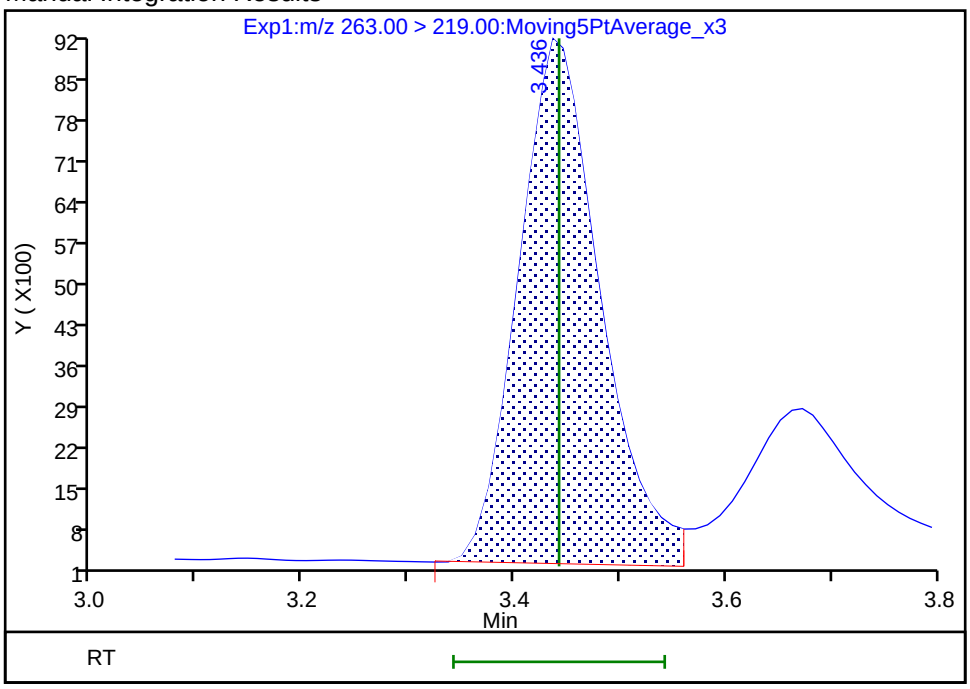
Not Detected
Expected RT: 3.44

Processing Integration Results



Manual Integration Results

RT: 3.44
Area: 48581
Amount: 0.383602
Amount Units: ng/ml



Reviewer: UCD3, 05-Aug-2023 11:43:09 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

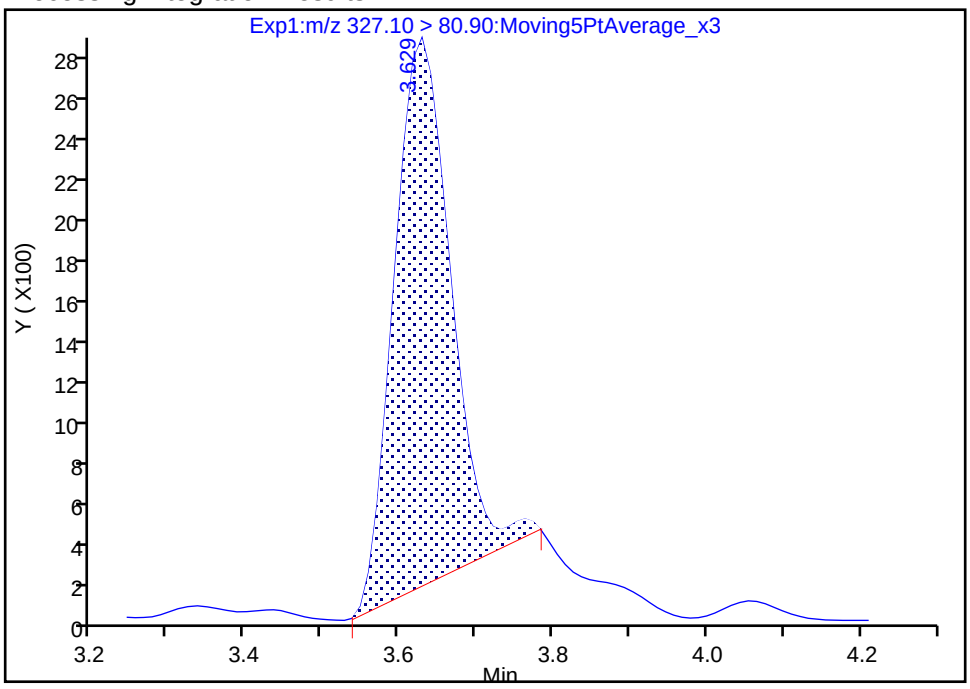
Data File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-11.d
Injection Date: 05-Aug-2023 11:25:28 Instrument ID: 30729
Lims ID: IC CAL 1
Client ID:
Operator ID: US19_USR_INS20263 ALS Bottle#: 20002 Worklist Smp#: 1
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: PFAS_30729_1633 Limit Group: LC - 1633 ICAL
Column: Detector EXP1

9 4:2FTS, CAS: 757124-72-4

Signal: 2

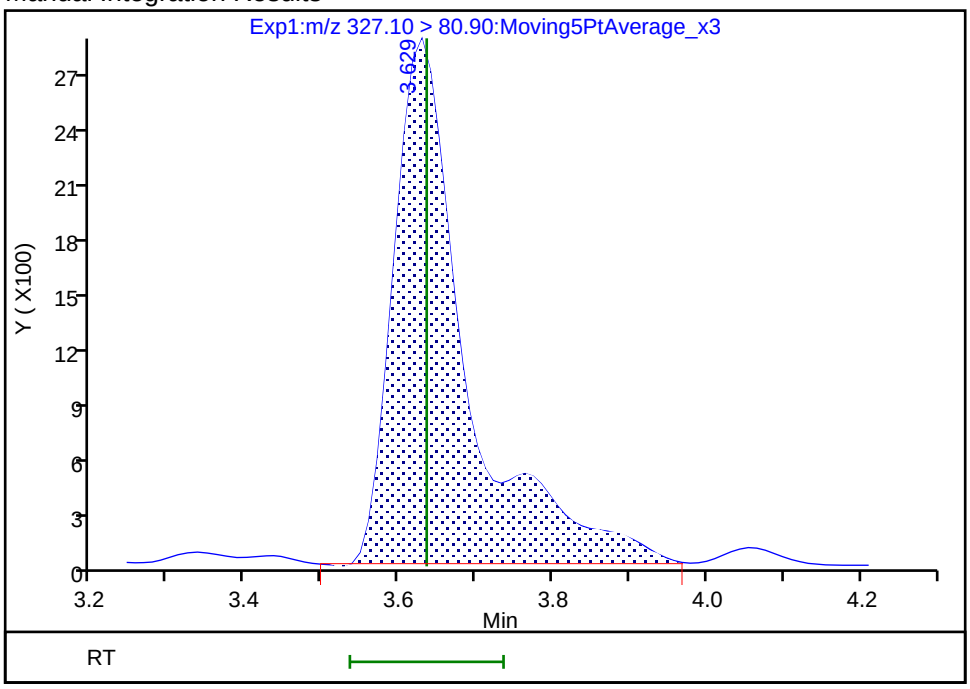
Processing Integration Results

RT: 3.63
Area: 13628
Amount: 0.741922
Amount Units: ng/ml



Manual Integration Results

RT: 3.63
Area: 18467
Amount: 0.741922
Amount Units: ng/ml



Reviewer: UCD3, 05-Aug-2023 11:43:33 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

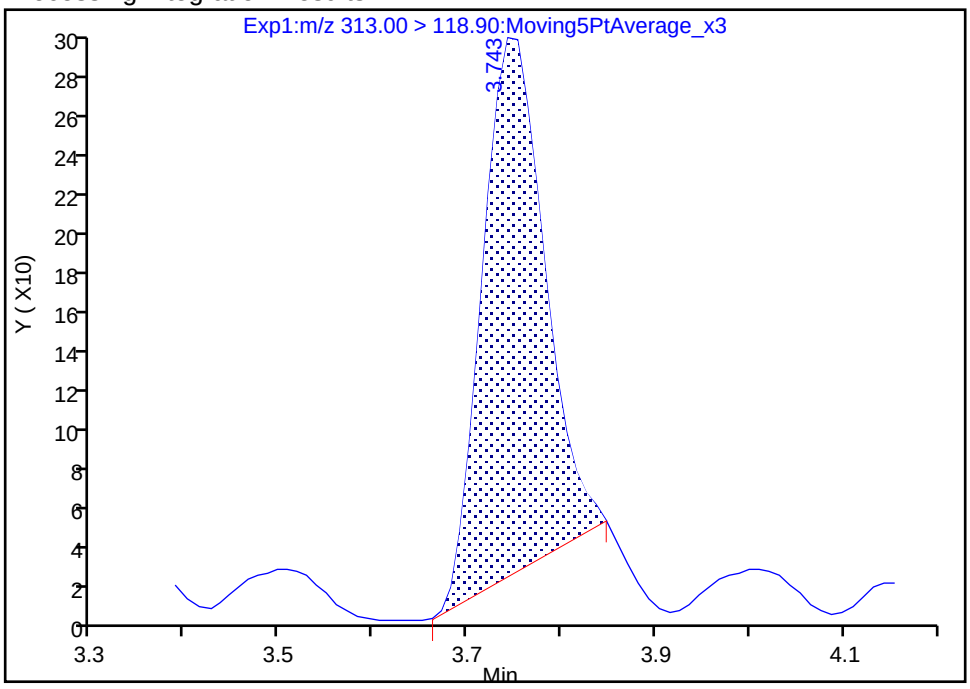
Data File:	\\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-11.d				
Injection Date:	05-Aug-2023 11:25:28	Instrument ID:	30729		
Lims ID:	IC CAL 1				
Client ID:					
Operator ID:	US19_USR_INS20263	ALS Bottle#:	20002	Worklist Smp#:	1
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

13 PFHxA, CAS: 307-24-4

Signal: 2

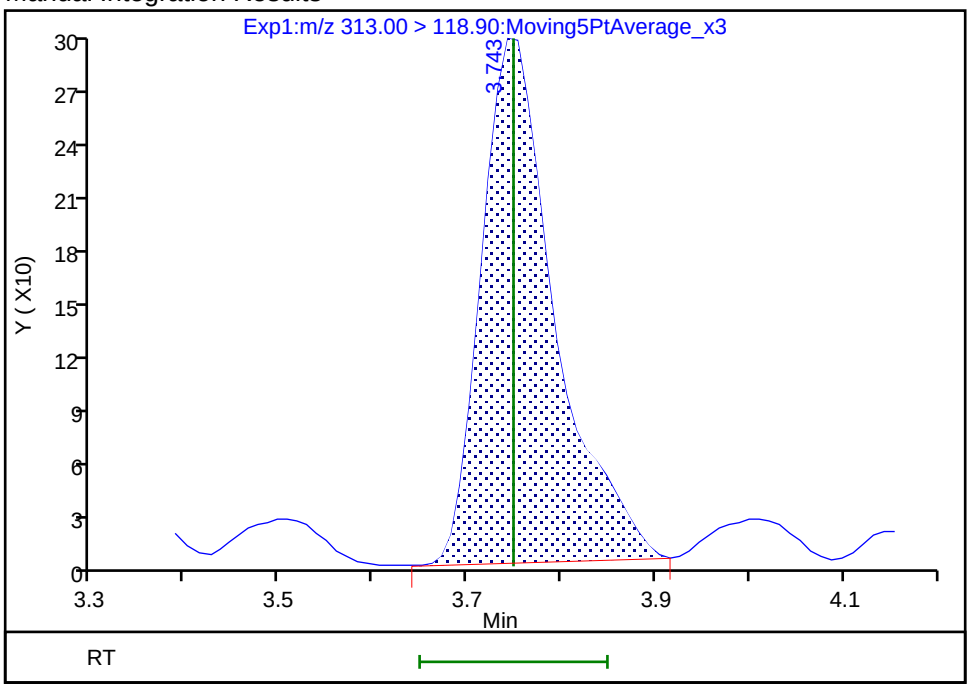
Processing Integration Results

RT: 3.74
Area: 1267
Amount: 0.172249
Amount Units: ng/ml



Manual Integration Results

RT: 3.74
Area: 1607
Amount: 0.172249
Amount Units: ng/ml



Reviewer: UCD3, 05-Aug-2023 11:43:41 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

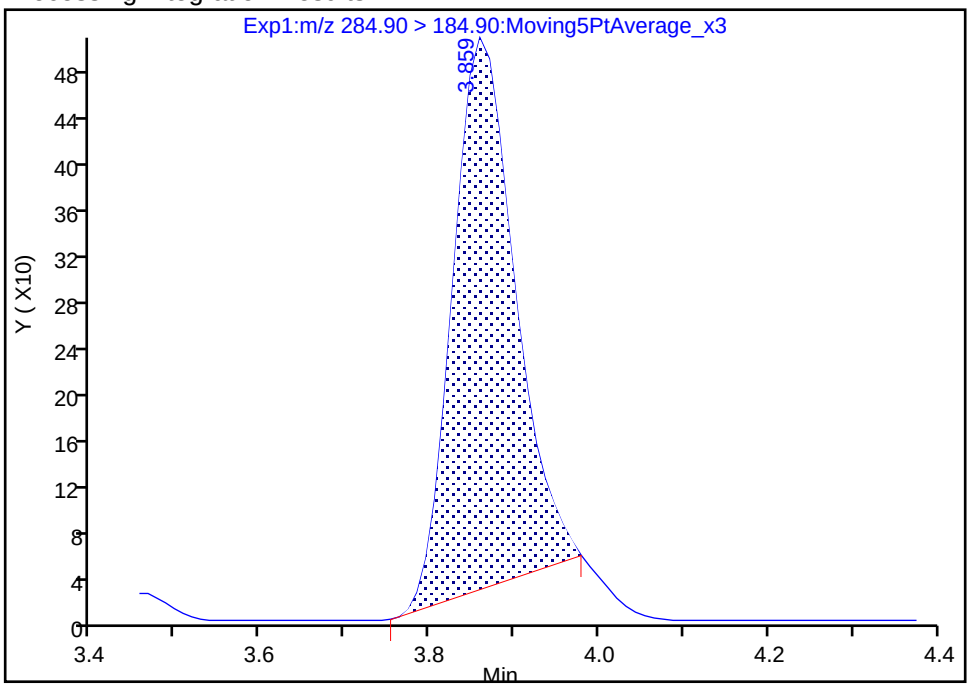
Data File:	\\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-11.d				
Injection Date:	05-Aug-2023 11:25:28	Instrument ID:	30729		
Lims ID:	IC CAL 1				
Client ID:					
Operator ID:	US19_USR_INS20263	ALS Bottle#:	20002	Worklist Smp#:	1
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

19 HFPO-DA, CAS: 13252-13-6

Signal: 2

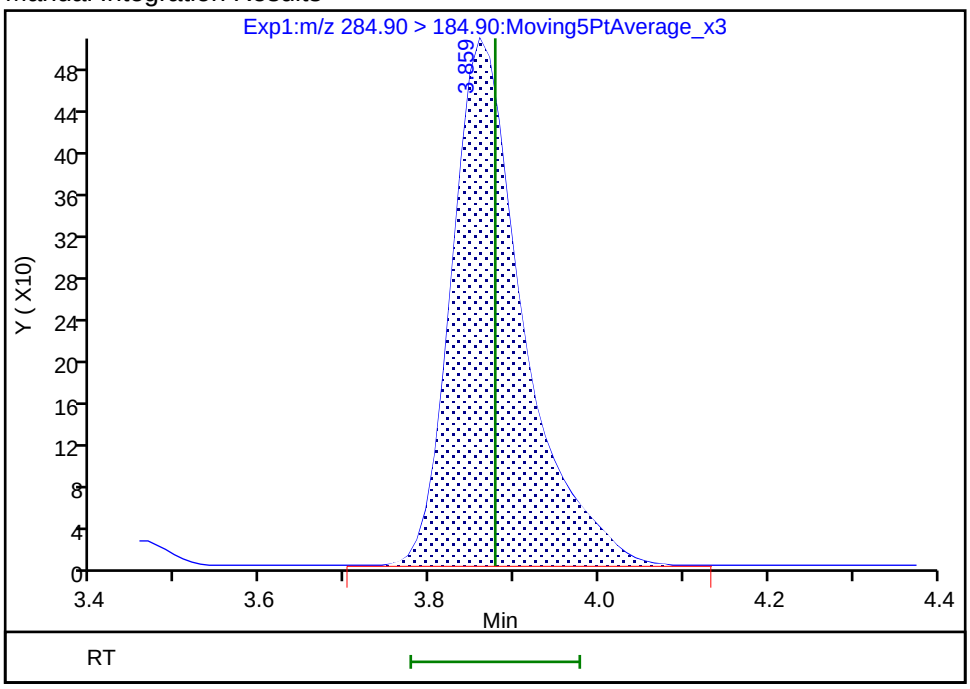
Processing Integration Results

RT: 3.86
Area: 2418
Amount: 0.809106
Amount Units: ng/ml



Manual Integration Results

RT: 3.86
Area: 2915
Amount: 0.809106
Amount Units: ng/ml



Reviewer: UCD3, 05-Aug-2023 11:43:49 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

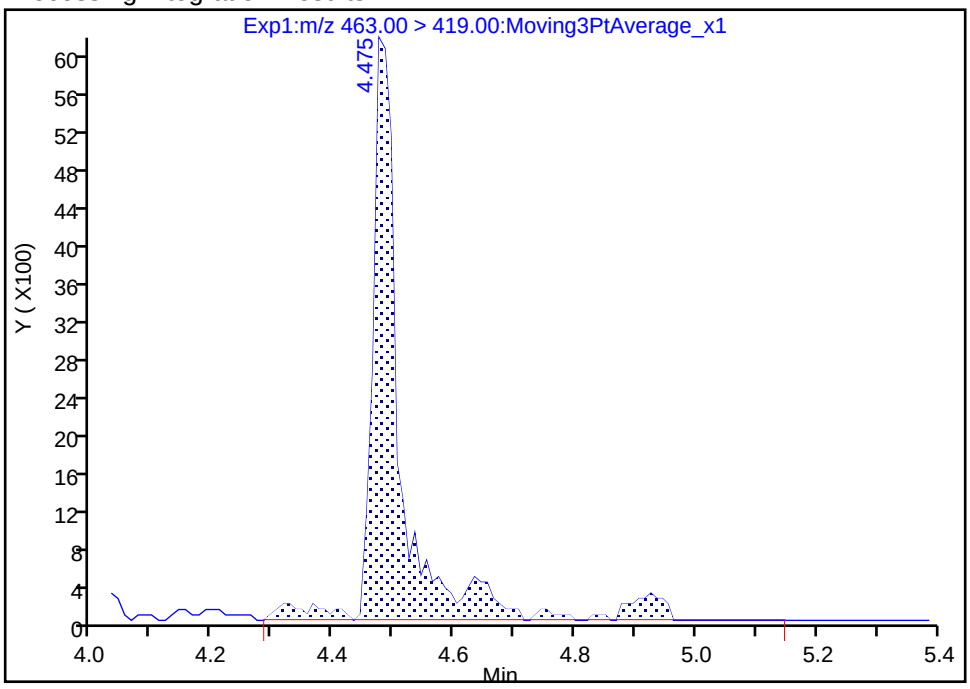
Data File:	\\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-11.d				
Injection Date:	05-Aug-2023 11:25:28	Instrument ID:	30729		
Lims ID:	IC CAL 1				
Client ID:					
Operator ID:	US19_USR_INS20263	ALS Bottle#:	20002	Worklist Smp#:	1
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

39 PFNA, CAS: 375-95-1

Signal: 1

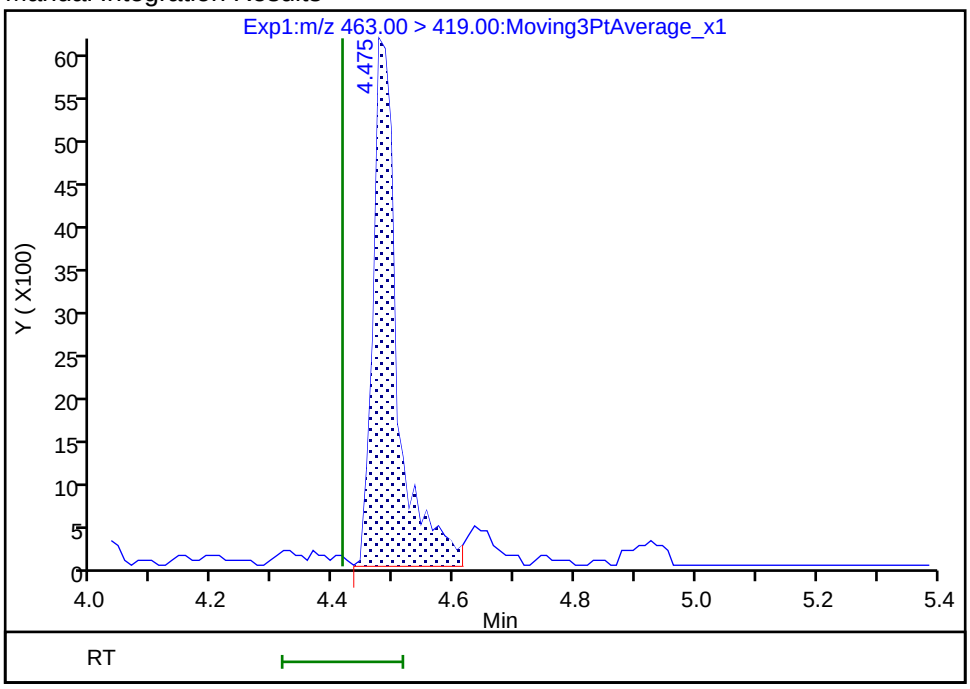
Processing Integration Results

RT: 4.48
Area: 20829
Amount: 0.222349
Amount Units: ng/ml



Manual Integration Results

RT: 4.48
Area: 16934
Amount: 0.186303
Amount Units: ng/ml



Reviewer: UCD3, 05-Aug-2023 11:44:09 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

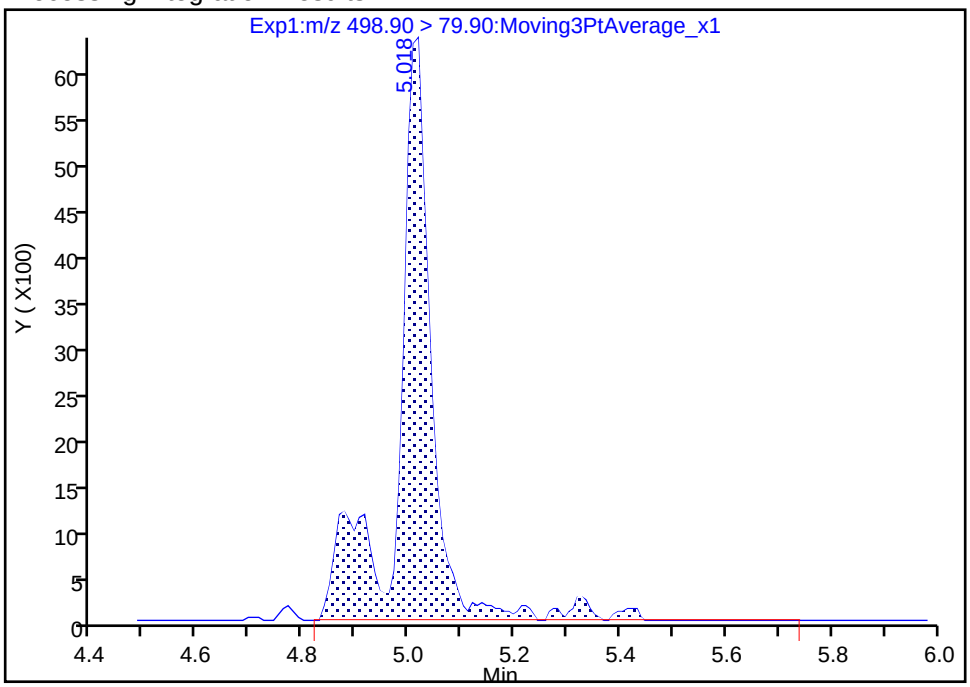
Data File:	\\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-11.d				
Injection Date:	05-Aug-2023 11:25:28	Instrument ID:	30729		
Lims ID:	IC CAL 1				
Client ID:					
Operator ID:	US19_USR_INS20263	ALS Bottle#:	20002	Worklist Smp#:	1
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

50 PFOS, CAS: 1763-23-1

Signal: 1

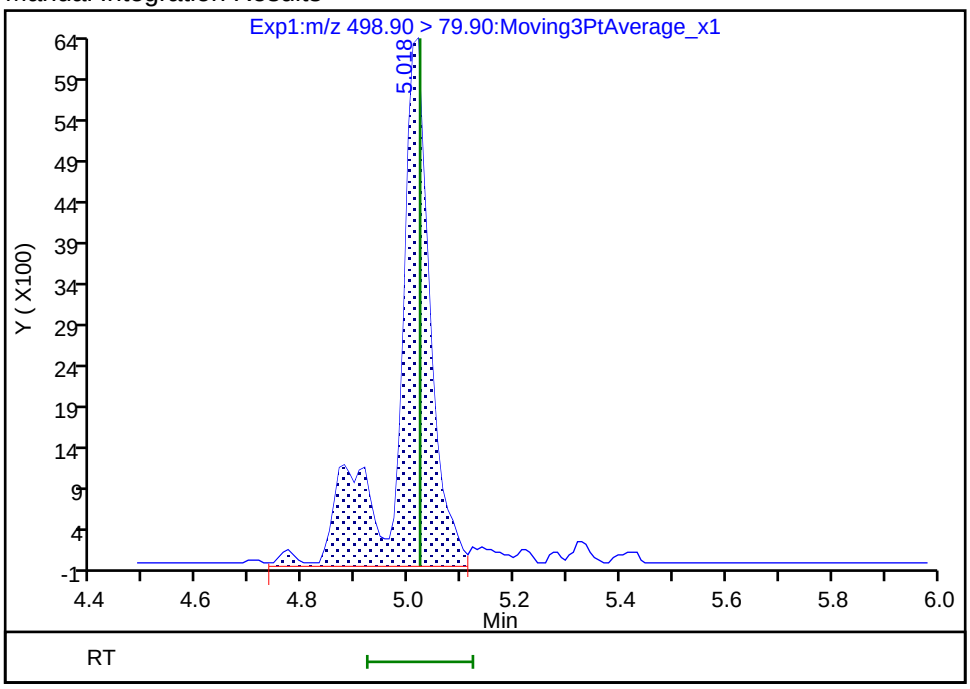
Processing Integration Results

RT: 5.02
Area: 28844
Amount: 0.195322
Amount Units: ng/ml



Manual Integration Results

RT: 5.02
Area: 27615
Amount: 0.188205
Amount Units: ng/ml



Reviewer: UCD3, 05-Aug-2023 11:44:25 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Isomers

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-02.d
Lims ID: IC CAL 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 05-Aug-2023 09:27:38 ALS Bottle#: 20003 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: IC CAL 2
Misc. Info.: Plate: 1 Rack: 1 410-0090708-002
Operator ID: US19_USR_INS20263 Instrument ID: 30729
Sublist: chrom-PFAS_30729_1633*sub4

Method: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\PFAS_30729_1633.m
Limit Group: LC - 1633 ICAL
Last Update: 05-Aug-2023 12:07:12 Calib Date: 05-Aug-2023 11:25:28
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-11.d

Column 1 : Det: EXP1
Process Host: CTX1666

First Level Reviewer: UCD3 Date: 05-Aug-2023 11:10:43
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4-PFBA										
216.80 > 171.90	2.939	2.927	0.012	1.000	1220167	10.1		101	72103	
* 3 13C3PFBA										
216.00 > 172.00	2.939	2.927	0.012		743697	5.00			1771	
1 PFBA										
212.80 > 168.90	2.939	2.939	0.0	1.000	188442	1.85		92.5	1086	
5 3:3 FTCA										
241.00 > 177.00	3.172	3.163	0.009	0.919	15380	2.60	Target=1.07	104	1084	
241.00 > 117.00	3.163	3.163	0.0	0.916	12652		1.22(0.54-1.61)	104	402	
4 PFMPA										
229.00 > 84.90	3.172	3.163	0.009	0.919	114967	0.9735		97.4	6057	
D 7 13C5 PFPeA										
268.30 > 223.00	3.453	3.439	0.014	0.918	325877	4.71		94.1	20724	
6 PFPA										a
263.00 > 219.00	3.453	3.442	0.011	1.000	118418	1.00	Target=1147.20	100	1616	a
263.00 > 68.90	3.508	3.442	0.066	0.000	0		0.00(573.60-1720.80)	100		
8 PFMBA										
279.00 > 85.10	3.557	3.556	0.001	1.030	96994	1.02		102	6116	
D 10 13C2-4:2FTS										
329.10 > 80.90	3.636	3.632	0.004	0.826	64975	5.25	Target=0.30	112	3986	
329.10 > 309.00	3.636	3.632	0.004	0.826	152737		0.43(0.15-0.45)	112	7151	
9 4:2FTS										
327.10 > 307.00	3.636	3.636	0.0	1.000	55731	1.50	Target=1.45	80.1	3520	
327.10 > 80.90	3.636	3.636	0.0	1.000	40220		1.39(0.72-2.17)	80.1	2478	
12 NFDHA										
295.00 > 201.00	3.728	3.728	0.0	0.992	9523	0.8087	Target=2.02	80.9	659	
295.00 > 84.90	3.728	3.728	0.0	0.992	4882		1.95(1.01-3.03)	80.9	344	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 14 13C5 PFHxA										
318.00 > 273.00	3.760	3.745	0.015	1.000	42018	2.49	Target=14.90	99.7	2853	
318.00 > 120.30	3.749	3.745	0.004	0.997	3603		11.66(7.45-22.34)	99.7	226	
* 15 13C2 PFHxA										
315.10 > 270.00	3.760	3.745	0.015		240998	2.50	Target=218.11		15412	
315.10 > 119.40	3.749	3.745	0.004		1562		154.29(109.05-327.16)		109	
13 PFHxA										
313.00 > 269.00	3.749	3.749	0.0	0.997	42740	0.4683	Target=12.56	93.7	1639	
313.00 > 118.90	3.749	3.749	0.0	0.997	3378		12.65(6.28-18.83)	93.7	212	
16 5:3 FTCA										
341.00 > 237.10	3.855	3.843	0.012	1.025	319445	11.8	Target=2.80	94.6	19009	
341.00 > 217.00	3.843	3.843	0.0	1.022	122708		2.60(1.40-4.19)	94.6	7848	
D 18 13C3 PFBS										
302.10 > 79.90	3.866	3.850	0.016	0.879	442771	2.53	Target=6.66	109	27821	
302.10 > 98.90	3.855	3.850	0.005	0.876	64082		6.91(3.33-9.99)	109	3953	
17 PFBS										
298.70 > 79.90	3.855	3.854	0.001	0.997	47311	0.4117	Target=3.12	92.8	2258	
298.70 > 98.80	3.855	3.854	0.001	0.997	14225		3.33(1.56-4.67)	92.8	676	
D 20 13C3 HFPO-DA										
286.90 > 168.90	3.877	3.861	0.016	1.031	1058263	9.95	Target=27.88	99.5	63421	
286.90 > 184.90	3.866	3.861	0.005	1.028	36697		28.84(13.94-41.82)	99.5	2370	
19 HFPO-DA										
284.90 > 168.90	3.877	3.877	0.0	1.000	139549	1.93	Target=18.47	96.3	341	
284.90 > 184.90	3.866	3.877	-0.011	0.997	8215		16.99(9.23-27.70)	96.3	556	
23 PFEESA										
314.80 > 134.90	4.006	4.006	0.0	1.066	409157	0.8487	Target=14.12	95.4	19359	
314.80 > 82.90	4.006	4.006	0.0	1.066	28400		14.41(7.06-21.18)	95.4	767	
D 25 13C4 PFHpA										
367.10 > 322.00	4.017	4.013	0.004	1.068	508703	2.52		101	31289	
24 PFHpA										
363.10 > 319.00	4.017	4.017	0.0	1.000	97070	0.5054	Target=3.63	101	4261	
363.10 > 169.00	4.006	4.017	-0.011	0.997	26820		3.62(1.81-5.44)	101	1703	
26 ADONA										
376.90 > 250.90	4.106	4.105	0.001	1.059	379450	1.85	Target=12.35	98.1	17020	
376.90 > 84.80	4.106	4.105	0.001	1.059	29985		12.65(6.17-18.52)	98.1	1812	
D 29 13C2-6:2FTS										
429.10 > 80.90	4.128	4.124	0.004	0.938	28755	4.50	Target=0.15	94.7	1788	
429.10 > 409.00	4.117	4.124	-0.007	0.936	159641		0.18(0.07-0.22)	94.7	7528	
27 6:2FTS										
427.10 > 407.00	4.128	4.127	0.001	1.000	60100	2.18	Target=1.66	115	3667	
427.10 > 80.90	4.128	4.127	0.001	1.000	34542		1.74(0.83-2.50)	115	2055	
28 PFPeS										
349.10 > 79.90	4.150	4.149	0.001	0.941	75155	0.3772	Target=3.80	80.2	4743	
349.10 > 98.90	4.150	4.149	0.001	0.941	24370		3.08(1.90-5.70)	80.2	1485	
32 PFOA										M
413.00 > 369.00	4.249	4.245	0.004	1.000	48656	0.4542	Target=2.19	90.8	45.9	M
413.00 > 169.00	4.249	4.245	0.004	1.000	27057		1.80(1.09-3.28)	90.8	57.9	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 30 13C4 PFOA										
417.10 > 172.00	4.249	4.245	0.004		18726	2.50			1229	
D 31 13C8 PFOA										
421.10 > 376.00	4.249	4.245	0.004	1.000	542108	3.05		122	33431	
* 35 18O2 PFHxS										
403.00 > 83.90	4.399	4.396	0.003		399154	2.37			20701	
D 36 13C3 PFHxS										
402.10 > 79.90	4.409	4.396	0.013	1.002	478968	2.52	Target=3.87	106	31613	
402.10 > 98.80	4.399	4.396	0.003	1.000	122932		3.90(1.93-5.80)	106	8362	
34 PFHxS										
398.70 > 79.90	4.409	4.408	0.001	1.000	39753	0.3735	Target=3.41	81.7	191	
398.70 > 98.90	4.409	4.408	0.001	1.000	13836		2.87(1.70-5.11)	81.7	70.7	
39 PFNA										
463.00 > 419.00	4.490	4.415	0.075	1.000	45917	0.5118	Target=4.66	102	130	
463.00 > 219.00	4.490	4.415	0.075	1.000	9281		4.95(2.33-7.00)	102	51.1	
33 7:3 FTCA										
441.00 > 316.90	4.428	4.427	0.001	1.178	237940	12.4	Target=0.66	99.4	15885	
441.00 > 336.90	4.418	4.427	-0.009	1.175	348126		0.68(0.33-1.00)	99.4	17896	
* 37 13C5 PFNA										
468.00 > 423.00	4.490	4.477	0.013		136943	1.25			9018	
D 38 13C9 PFNA										
472.10 > 427.00	4.490	4.487	0.003	1.000	133501	1.15		92.3	6755	
D 41 13C2-8:2FTS										
529.10 > 80.90	4.609	4.596	0.013	1.048	16082	4.72	Target=0.14	98.3	1118	
529.10 > 509.00	4.599	4.596	0.003	1.045	101527		0.16(0.07-0.21)	98.3	6617	
40 8:2FTS										
527.10 > 507.00	4.599	4.599	0.0	0.998	36751	1.95	Target=1.18	102	2446	
527.10 > 80.80	4.599	4.599	0.0	0.998	29929		1.23(0.59-1.77)	102	2084	
42 PFHpS										
449.00 > 79.90	4.680	4.669	0.011	0.930	73084	0.4499	Target=3.61	94.4	5002	
449.00 > 98.80	4.680	4.669	0.011	0.930	19910		3.67(1.80-5.41)	94.4	1337	
D 44 d3-NMeFOSAA										
573.20 > 419.00	4.719	4.707	0.012	0.938	251448	4.61		92.2	16411	
43 NMeFOSAA										
570.10 > 419.00	4.719	4.719	0.0	1.000	20291	0.4305	Target=1.96	86.1	85.0	
570.10 > 483.00	4.719	4.719	0.0	1.000	13440		1.51(0.98-2.93)	86.1	45.3	
* 46 13C2 PFDA										
515.10 > 470.10	4.775	4.763	0.012		174649	1.25			8958	
D 47 13C6 PFDA										
519.10 > 474.10	4.775	4.763	0.012	1.000	181036	1.28		103	12111	
45 PFDA										
512.90 > 469.00	4.775	4.765	0.010	1.000	49258	0.4783	Target=6.39	95.7	2038	
512.90 > 219.00	4.775	4.765	0.010	1.000	7366		6.69(3.20-9.59)	95.7	530	
D 49 d5-NEtFOSAA										
589.20 > 419.00	4.871	4.860	0.011	0.968	257852	5.08		102	13101	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
48 NEtFOSAA										
584.20 > 419.10	4.880	4.871	0.009	1.002	18512	0.4798	Target=1.68	96.0	122	
584.20 > 526.00	4.880	4.871	0.009	1.002	9412		1.97(0.84-2.52)	96.0	22.4	
* 52 13C4 PFOS										
502.80 > 79.90	5.030	5.009	0.021		262604	2.40	Target=3.81		13098	
502.80 > 98.90	5.021	5.009	0.012		69194		3.80(1.91-5.72)		4638	
D 51 13C8 PFOS										
507.10 > 79.90	5.030	5.009	0.021	1.000	385075	2.47	Target=4.02	103	25858	
507.10 > 98.90	5.021	5.009	0.012	0.998	92981		4.14(2.01-6.03)	103	4684	
50 PFOS										
498.90 > 79.90	5.030	5.021	0.009	1.000	63815	0.4309	Target=4.56	92.9	401	
498.90 > 98.80	5.030	5.021	0.009	1.000	14314		4.46(2.28-6.83)	92.9	87.7	
D 54 13C7 PFUnA										
570.00 > 525.10	5.158	5.147	0.011	1.080	171938	1.33		106	7116	
53 PFUnA										
563.10 > 519.00	5.158	5.158	0.0	1.000	56900	0.4676	Target=11.35	93.5	2836	
563.10 > 269.10	5.150	5.158	-0.008	0.998	4605		12.36(5.67-17.02)	93.5	357	
55 9ClFOS										
530.80 > 351.00	5.380	5.371	0.009	1.388	359717	1.91	Target=3.22	102	23342	
532.80 > 353.00	5.371	5.371	0.0	1.385	103774		3.47(1.61-4.83)	102	3501	
56 PFNS										
548.80 > 79.90	5.494	5.486	0.008	1.092	47930	0.4399	Target=4.35	91.5	2606	
548.80 > 98.80	5.486	5.486	0.0	1.091	11198		4.28(2.18-6.53)	91.5	808	
D 58 PFDoDA										
615.10 > 570.00	5.638	5.620	0.018	1.181	149391	1.30		104	6754	
57 PFDoA										
613.10 > 569.00	5.638	5.637	0.001	1.000	50771	0.4502	Target=16.83	90.0	2272	
613.10 > 319.00	5.638	5.637	0.001	1.000	3394		14.96(8.42-25.25)	90.0	274	
60 PFOSA										
498.10 > 77.90	5.920	5.917	0.003	1.000	117997	0.4859	Target=57.83	97.2	1421	
498.10 > 478.00	5.912	5.917	-0.005	0.999	2067		57.09(28.91-86.74)	97.2	49.5	
D 59 13C8 FOSA										
506.10 > 77.80	5.920	5.917	0.003	1.177	588503	2.57		103	40115	
61 PFDS										
599.00 > 79.90	5.944	5.944	0.0	1.182	76769	0.4480	Target=4.33	92.9	4207	
599.00 > 98.80	5.944	5.944	0.0	1.182	17150		4.48(2.16-6.49)	92.9	1302	
62 PFTrDA										
663.00 > 619.00	6.083	6.076	0.007	0.938	41072	0.4331	Target=3.74	86.6	2399	
663.00 > 168.90	6.083	6.076	0.007	0.938	11190		3.67(1.87-5.60)	86.6	897	
63 11ClFOS										
630.90 > 450.90	6.272	6.272	0.0	1.618	466182	1.85	Target=5.39	97.8	28784	
632.90 > 452.90	6.261	6.272	-0.011	1.615	82503		5.65(2.70-8.09)	97.8	5337	
D 65 13C2 PFTeDA										
715.20 > 670.00	6.482	6.468	0.014	1.358	87542	1.35		108	5579	
64 PFTeDA										
713.10 > 669.00	6.482	6.482	0.0	1.000	33838	0.4224	Target=3.33	84.5	2317	
713.10 > 168.90	6.482	6.482	0.0	1.000	11437		2.96(1.66-4.99)	84.5	788	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 67 d7-N-Me-FOSE										
623.20 > 58.90	6.697	6.694	0.003	1.331	926402	24.6		98.4	38137	
68 N-MeFOSE-M										
616.10 > 58.90	6.709	6.706	0.003	1.002	199686	4.85		96.9	1930	
66 PFDoS										
699.10 > 79.90	6.709	6.708	0.001	1.334	79723	0.4460	Target=4.86	92.0	4549	
699.10 > 98.80	6.709	6.708	0.001	1.334	17308		4.61(2.43-7.28)	92.0	1020	
D 69 d3-NMePFOSA										
515.00 > 219.00	6.828	6.825	0.003	1.357	106454	2.37		94.8	5886	
70 NMeFOSA										
511.90 > 219.00	6.828	6.825	0.003	1.000	16599	0.4906	Target=0.79	98.1	222	
511.90 > 169.00	6.828	6.825	0.003	1.000	20432		0.81(0.40-1.18)	98.1	240	
D 71 d9-N-EtFOSE										
639.20 > 58.90	6.972	6.959	0.013	1.386	1138657	24.6		98.6	34467	
72 N-EtFOSE-M										
630.00 > 58.90	6.983	6.979	0.004	1.001	206978	4.83		96.7	2251	
D 73 d5-NEtPFOSA										
531.10 > 219.00	7.085	7.081	0.004	1.408	116143	2.41		96.5	3442	
74 N-EtFOSA-M										
526.00 > 219.00	7.095	7.092	0.003	1.001	22354	0.4996	Target=3.02	99.9	492	
526.00 > 169.00	7.095	7.092	0.003	1.001	6916		3.23(1.51-4.53)	99.9	186	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

PFC_STD2_1633_00007 Amount Added: 1.00 Units: mL

Report Date: 05-Aug-2023 12:07:17 Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-02.d

Injection Date: 05-Aug-2023 09:27:38 Instrument ID: 30729

Lims ID: IC CAL 2

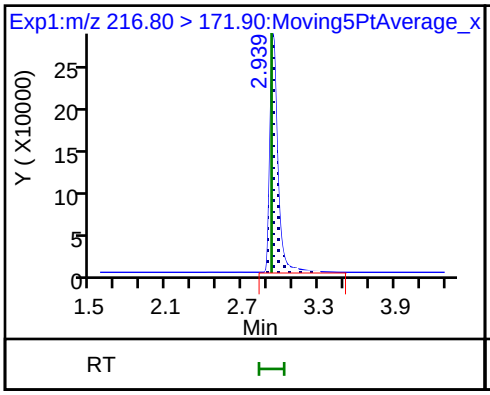
Client ID:

Operator ID: US19_USR_INS20263 ALS Bottle#: 20003 Worklist Smp#: 2

Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: PFAS_30729_1633 Limit Group: LC - 1633 ICAL

D 2 13C4-PFBA



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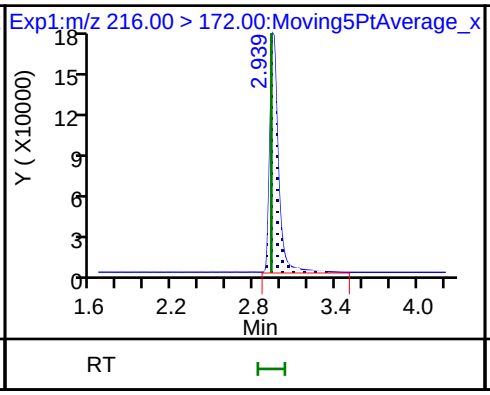
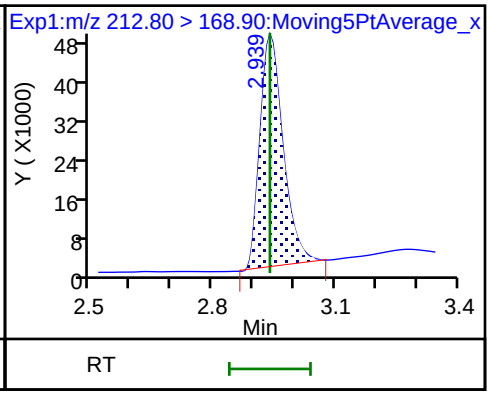


1 PFBA



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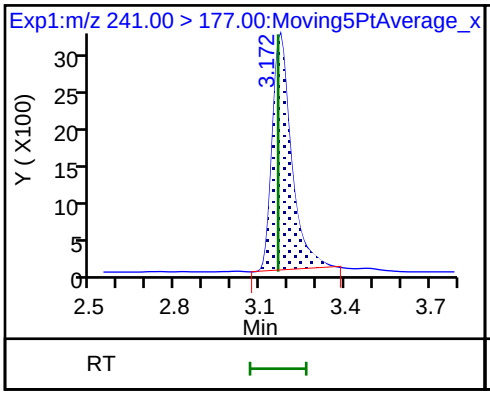

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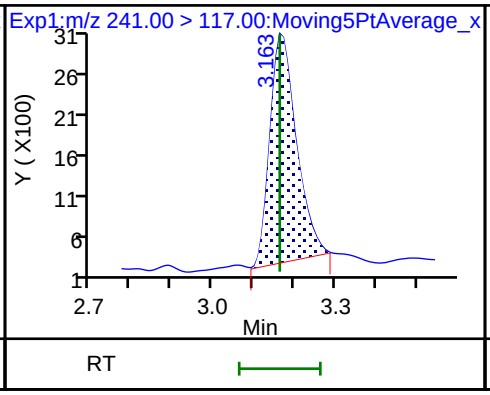
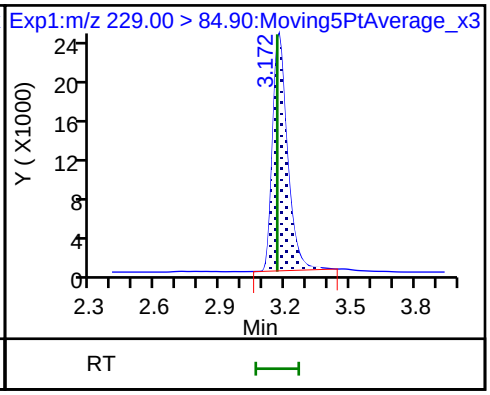


4 PFMPA



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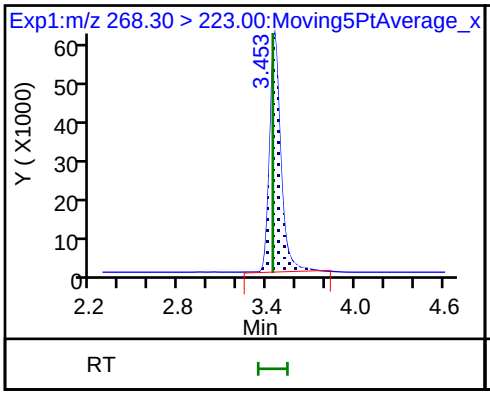
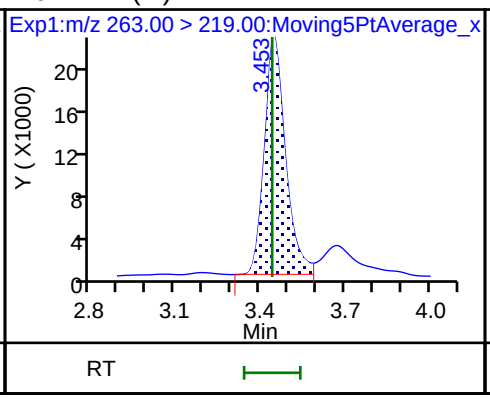


6 PFPA (M)



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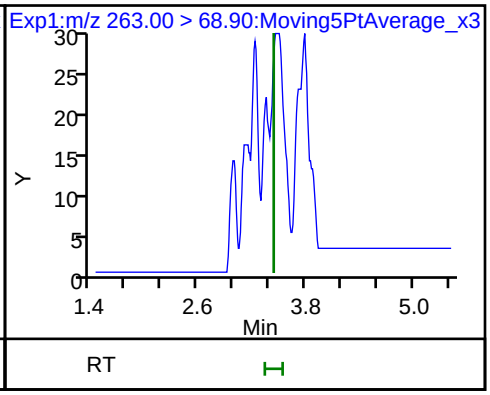
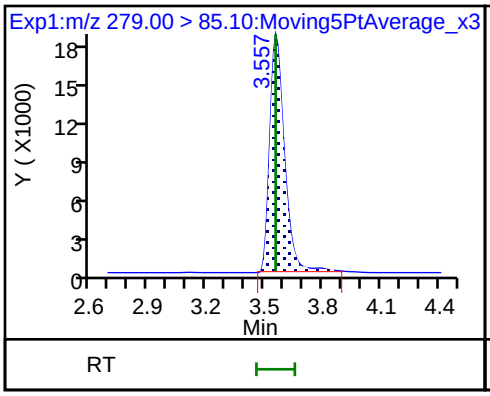


8 PFMBA



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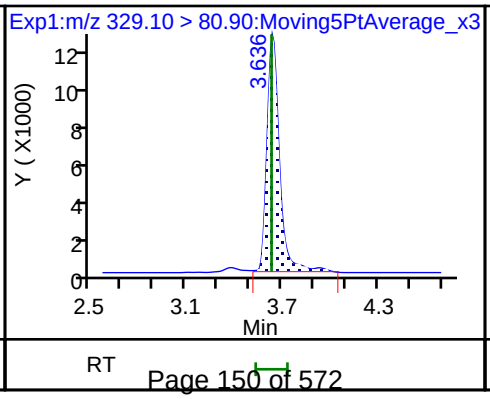

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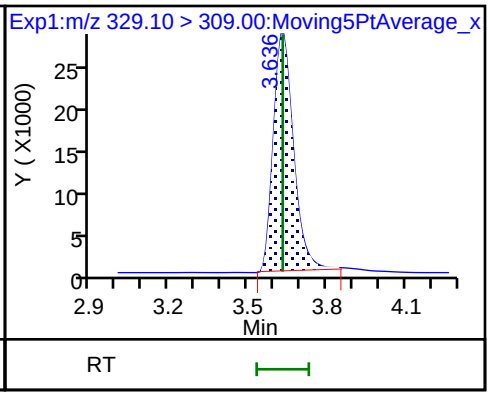

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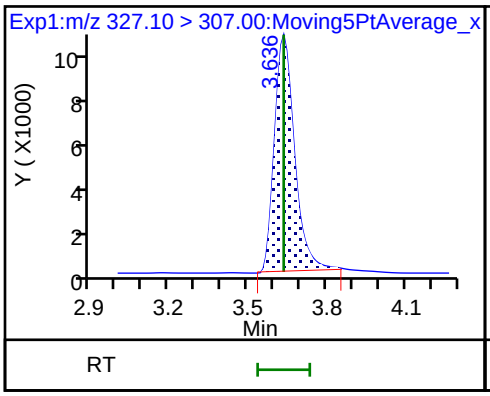

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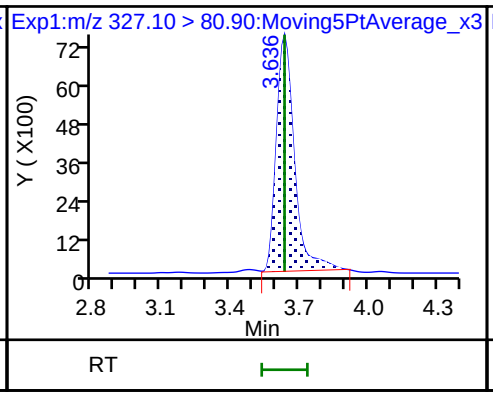
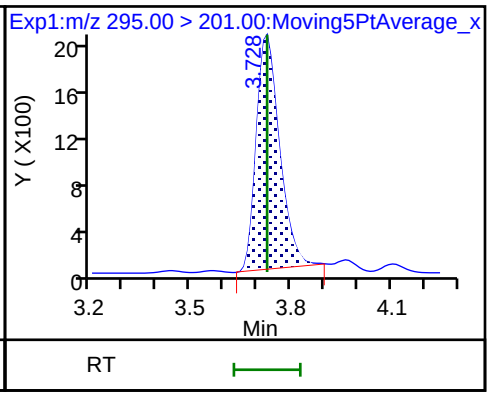
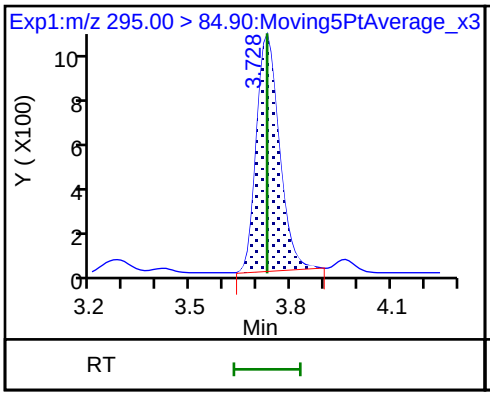


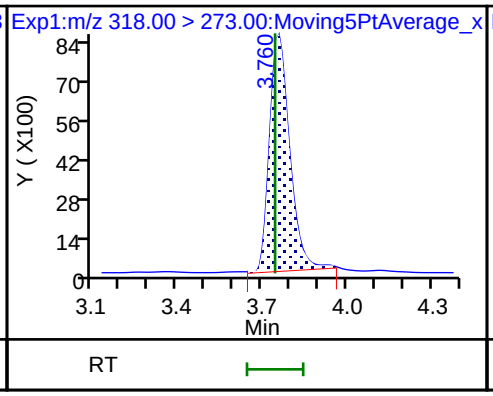
12 NFDHA



12 NFDHA



D 14 13C5 PFHxA



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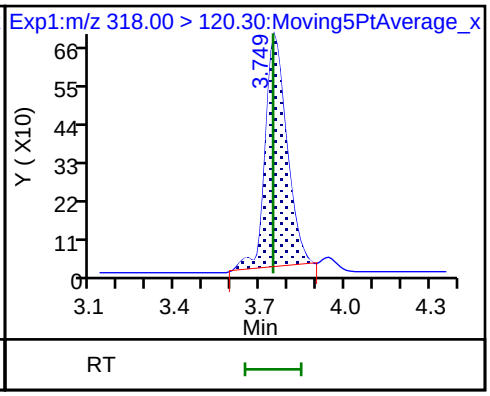
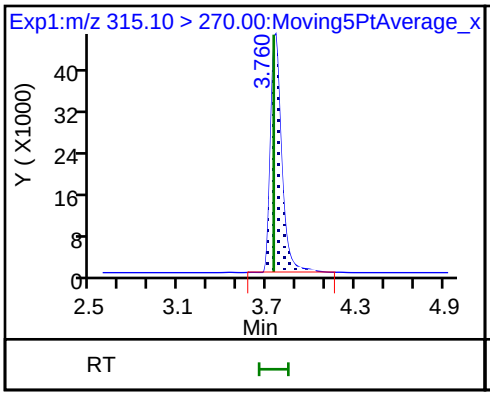


* 15 13C2 PFHxA



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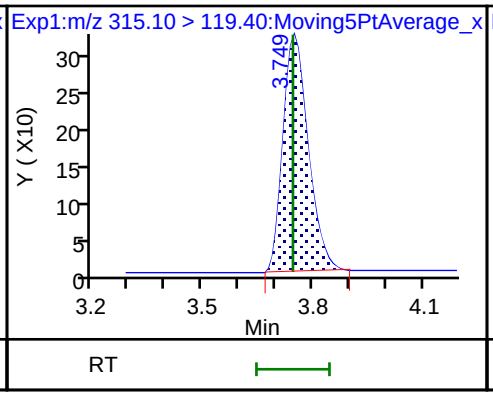
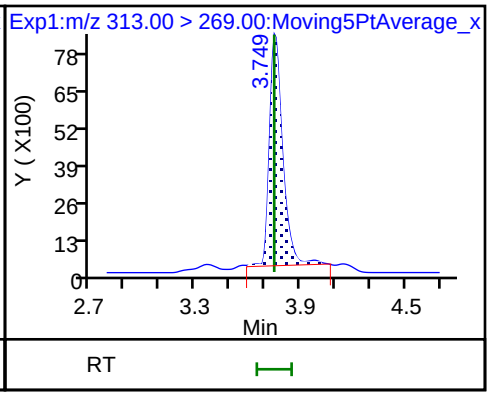


13 PFHxA



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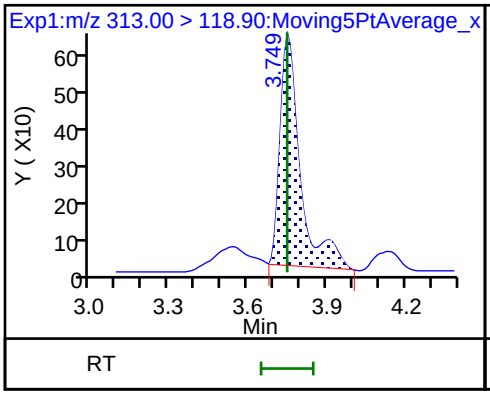
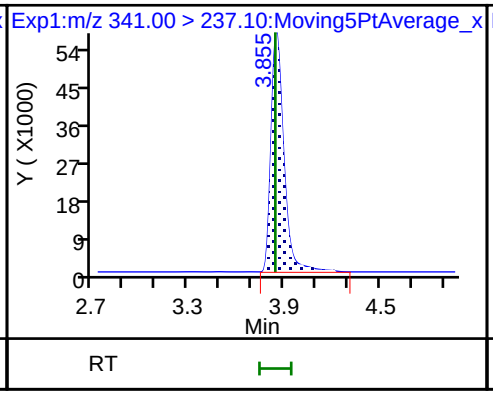
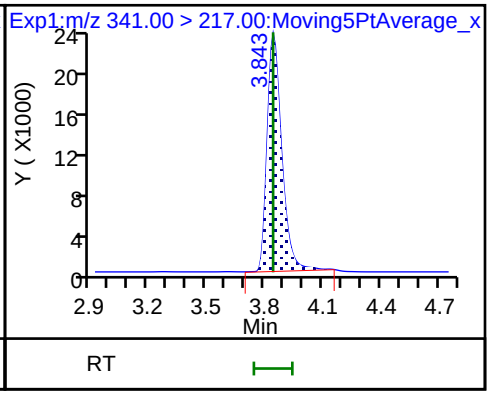


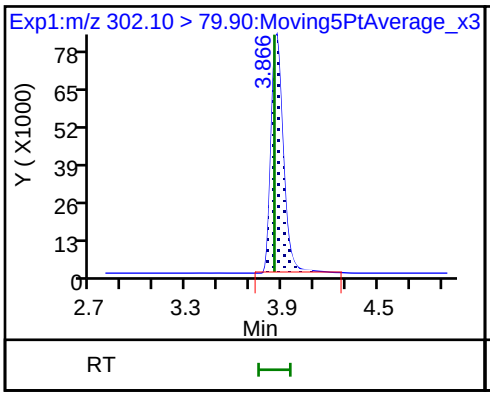
16 5:3 FTCA



16 5:3 FTCA



D 18 13C3 PFBS



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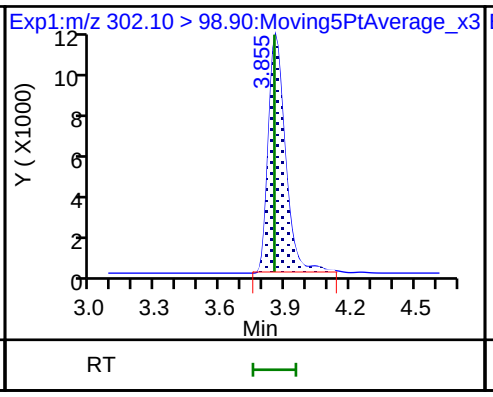

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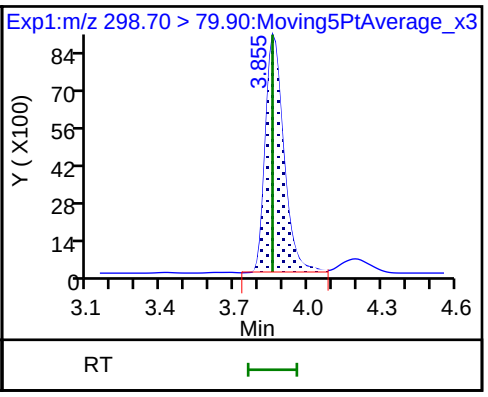

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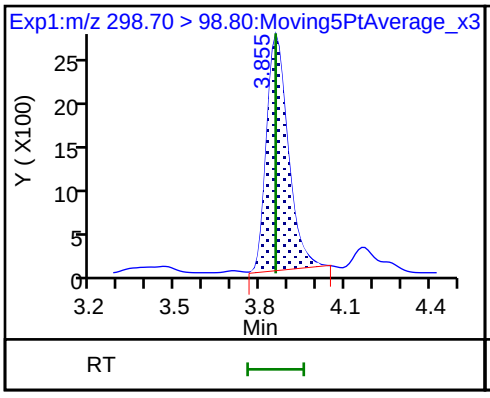

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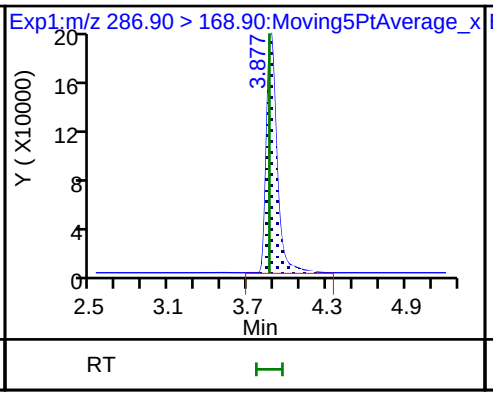

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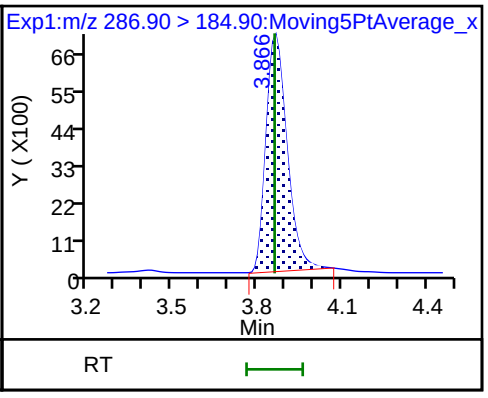

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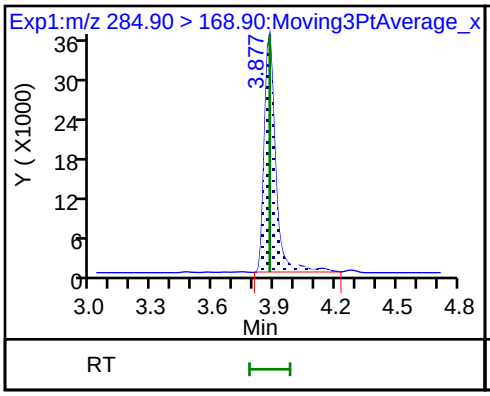

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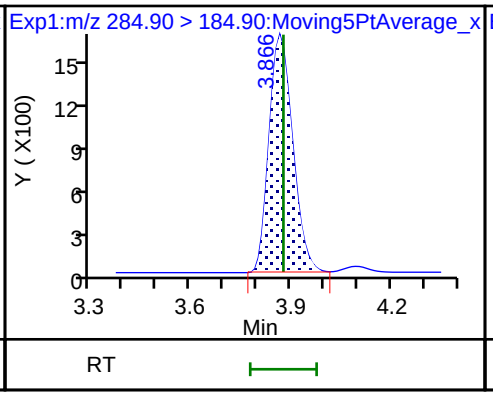
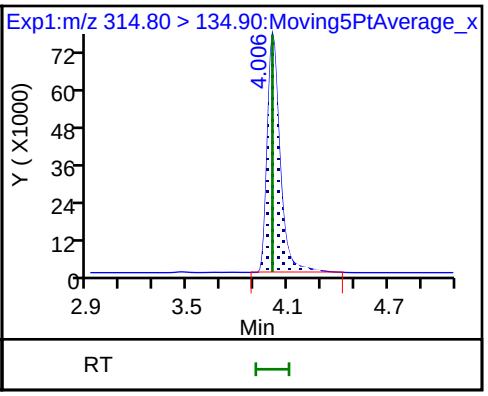


23 PFEESA



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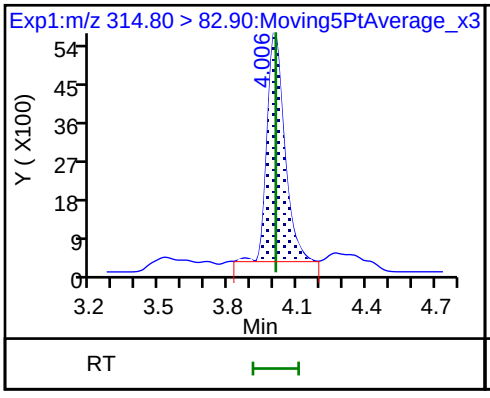
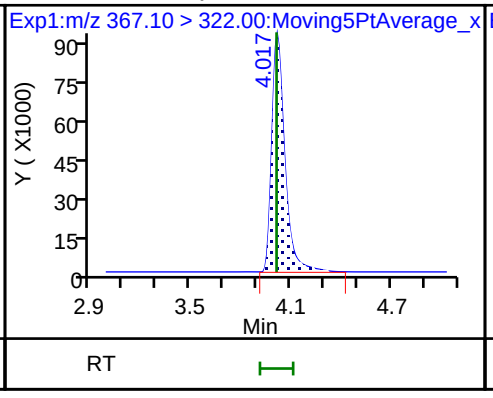


D 25 13C4 PFHpA



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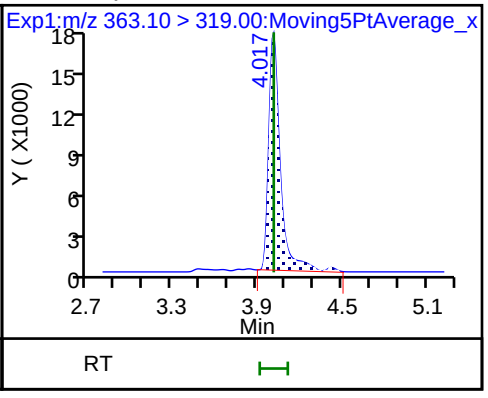

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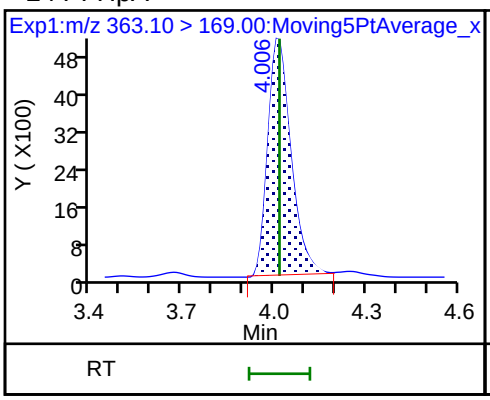
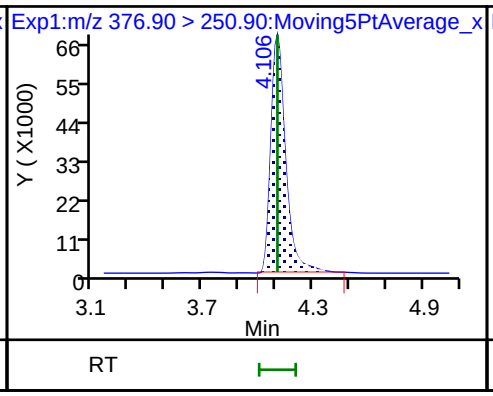


26 ADONA



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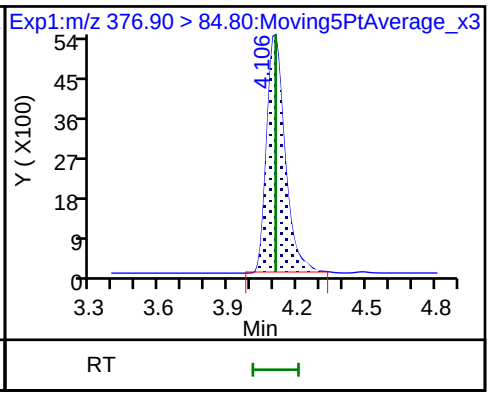
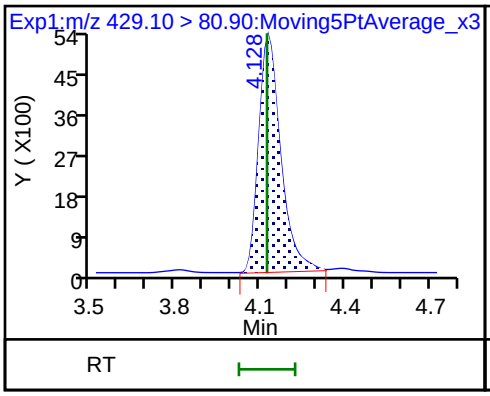


D 29 13C2-6:2FTS



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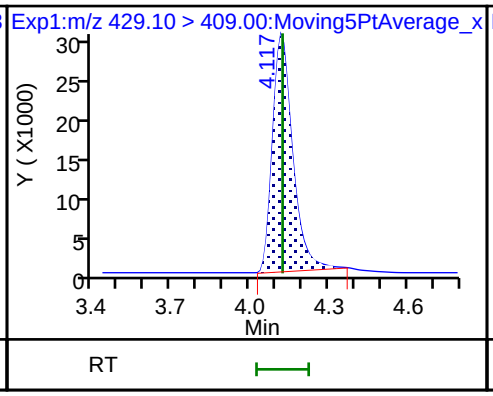
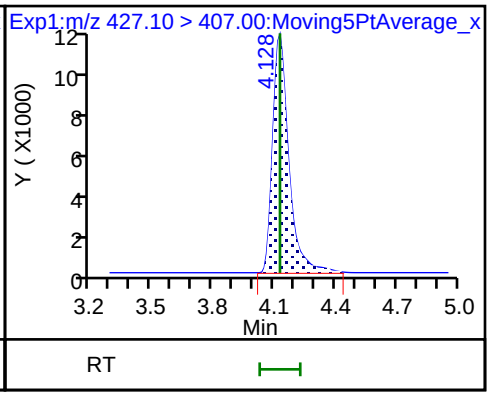
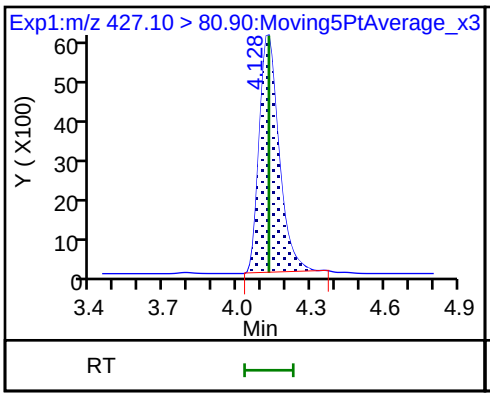


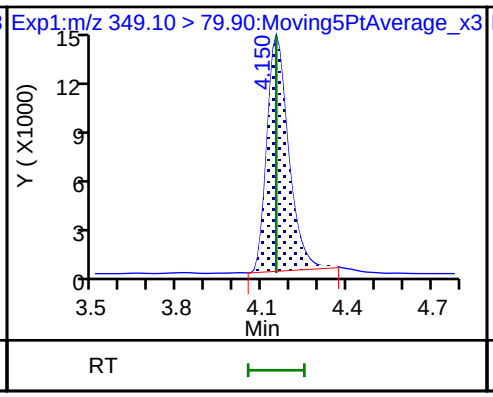
27 6:2FTS



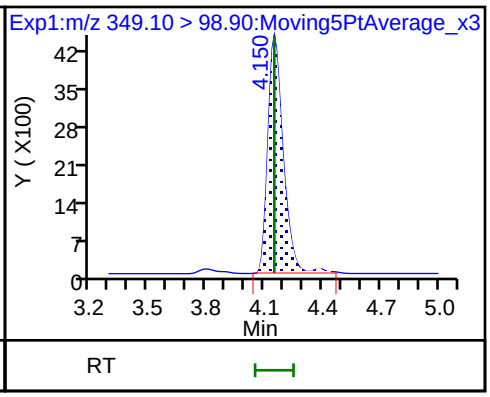
27 6:2FTS



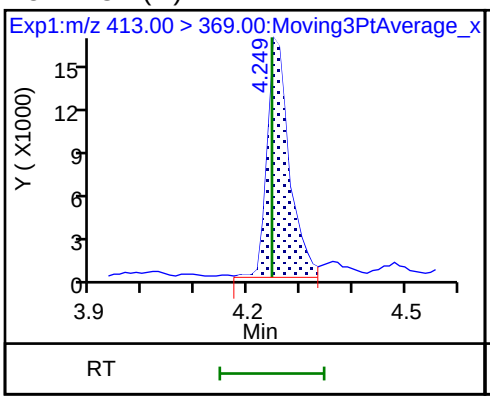
28 PFPeS



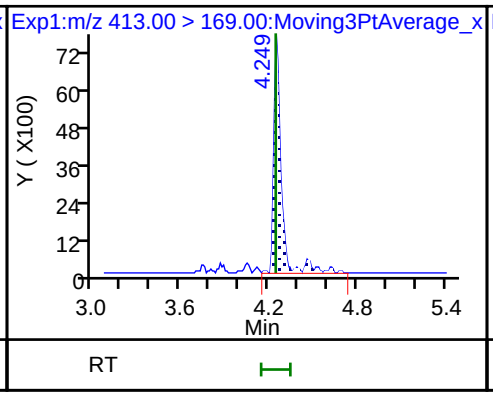
28 PFPeS



32 PFOA (M)



32 PFOA



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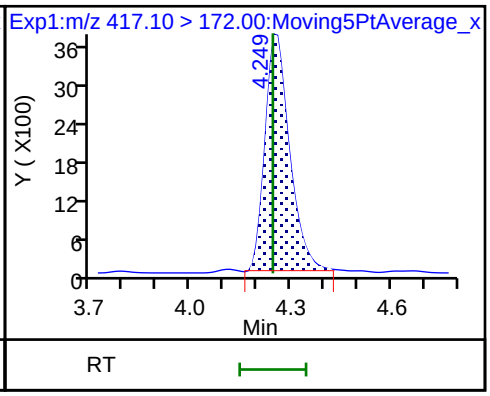
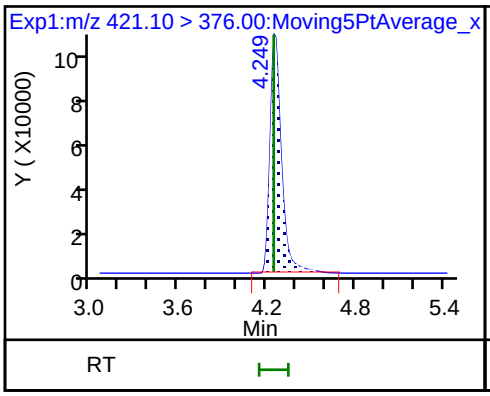
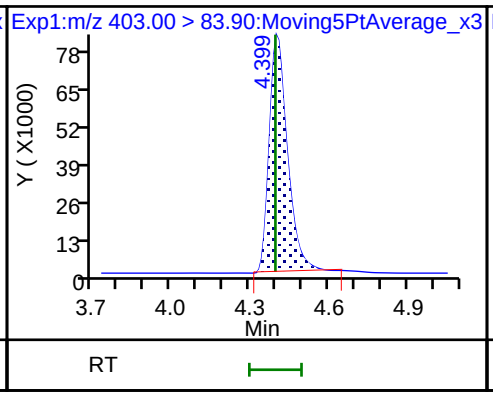


D 31 13C8 PFOA



* 35 18O2 PFHxS



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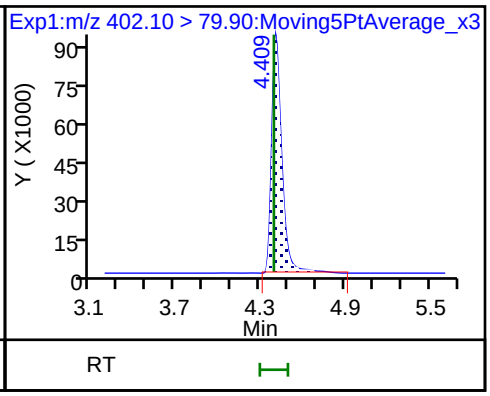

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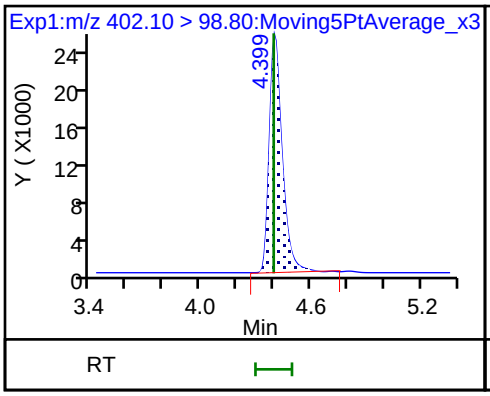
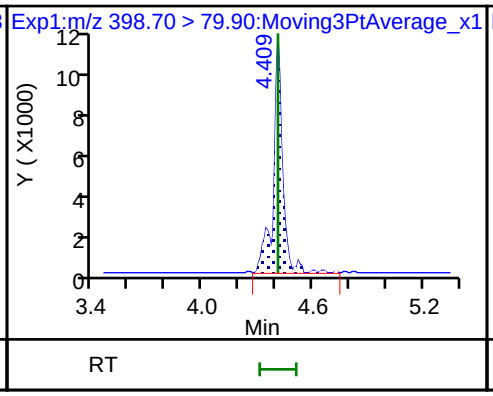
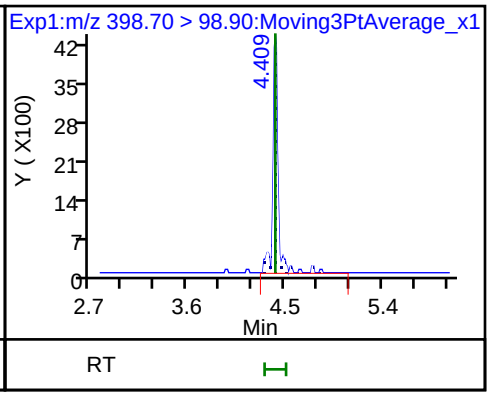


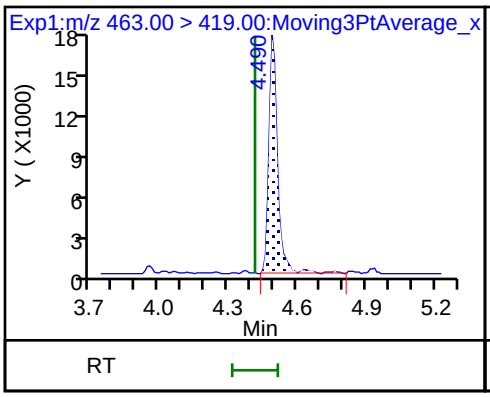
34 PFHxS



34 PFHxS



39 PFNA



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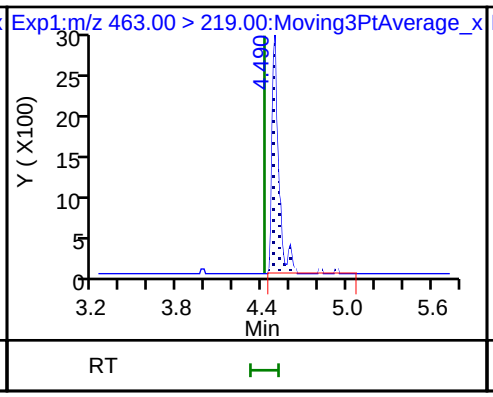
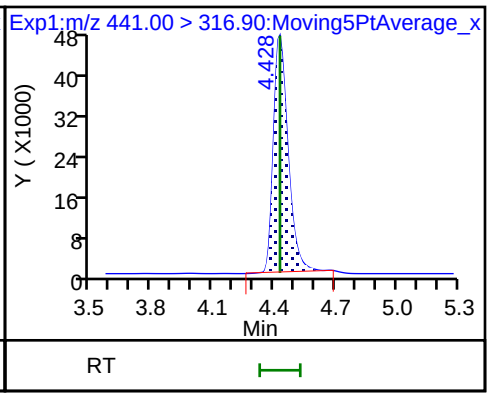


33 7:3 FTCA



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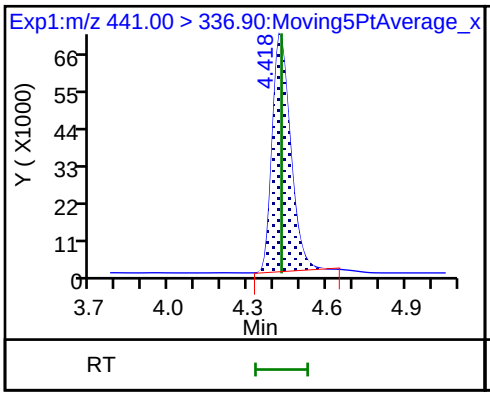

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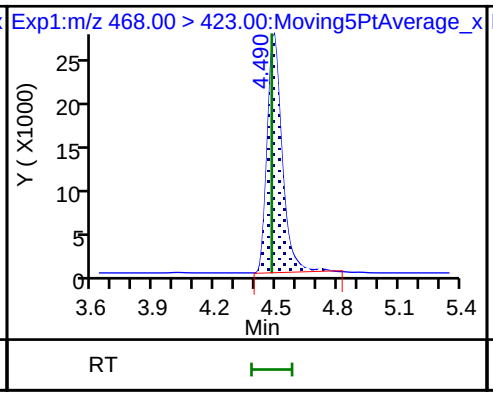
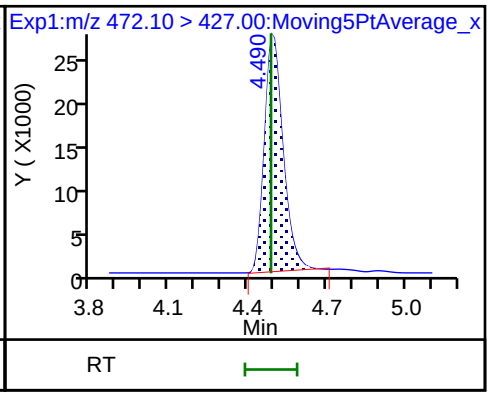
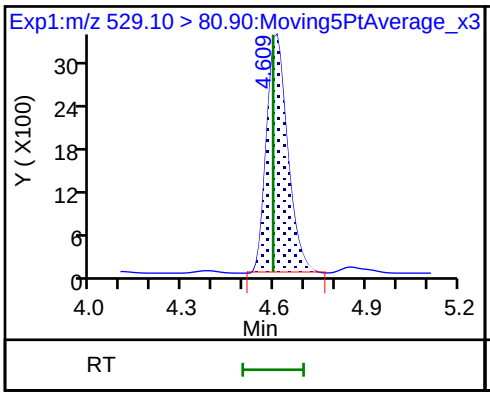


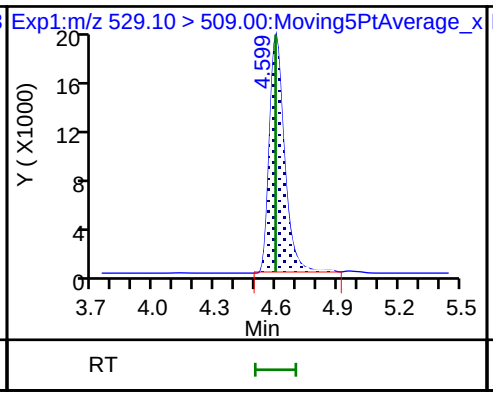
D 38 13C9 PFNA



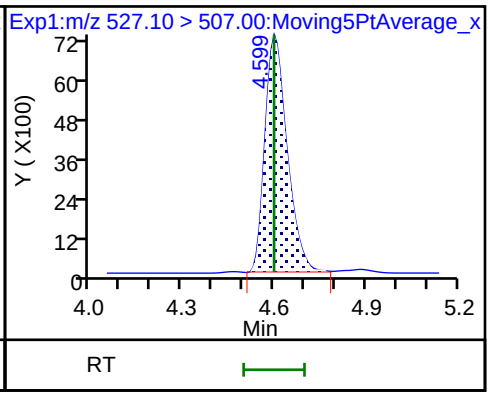
D 41 13C2-8:2FTS



D 41 13C2-8:2FTS



40 8:2FTS



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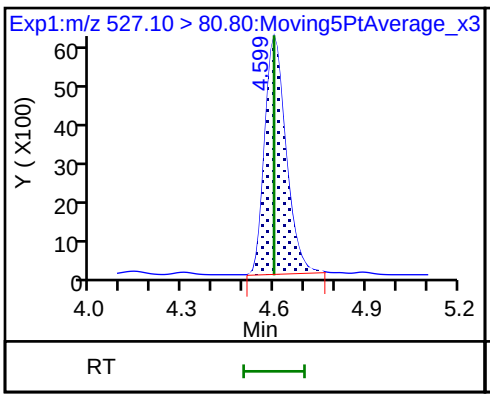
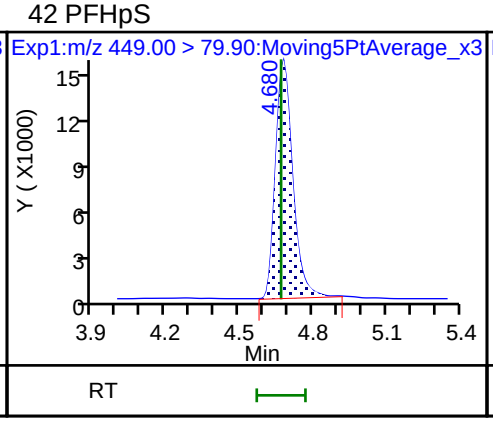


42 PFHpS



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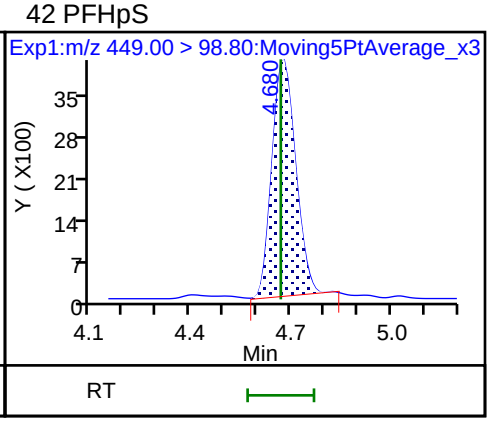
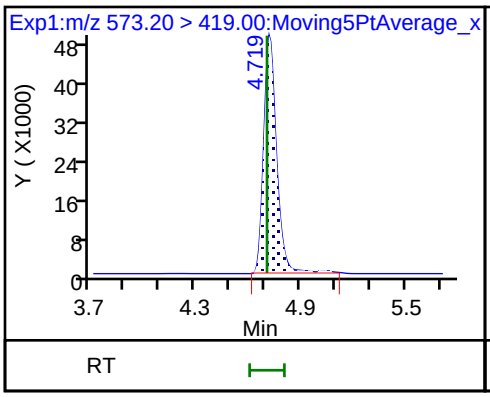
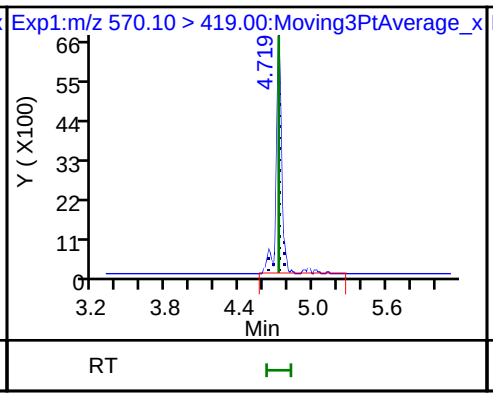


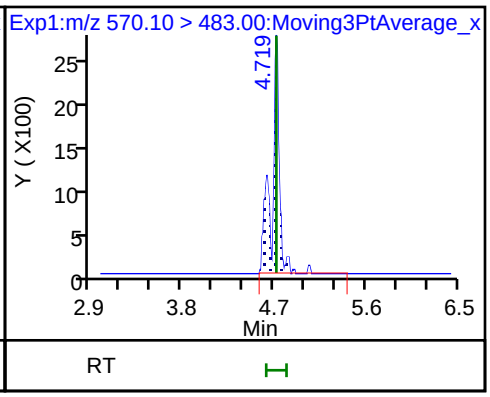
D 44 d3-NMeFOSAA



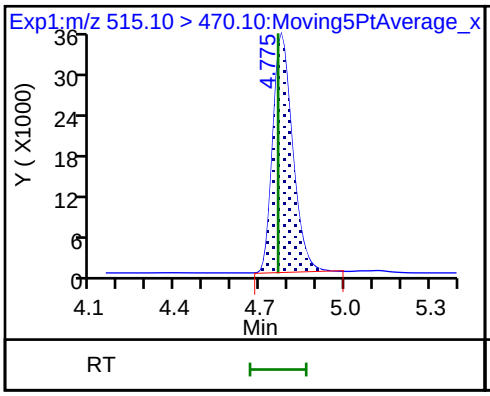
43 NMeFOSAA



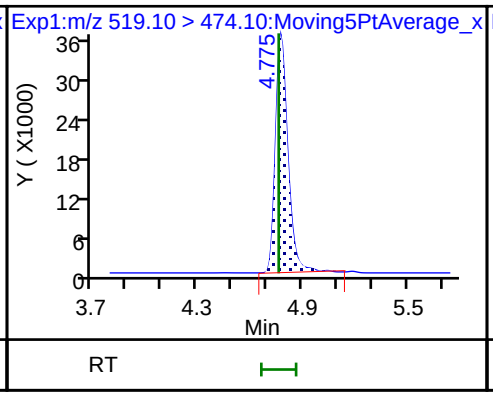
43 NMeFOSAA



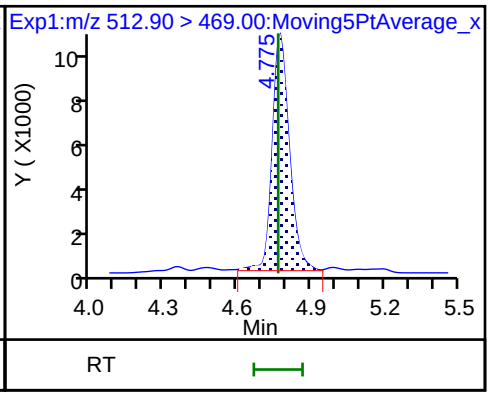
* 46 13C2 PFDA



D 47 13C6 PFDA



45 PFDA



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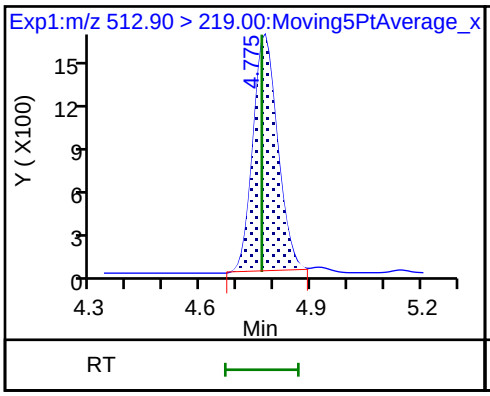
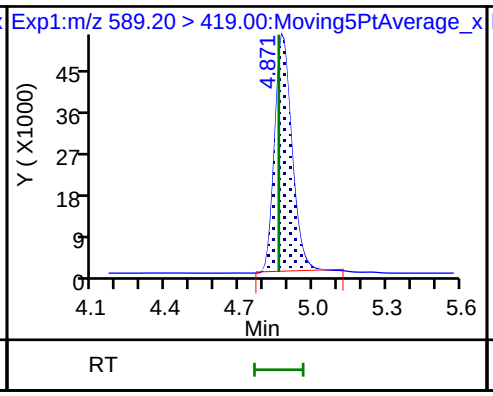


D 49 d5-NEtFOSAA



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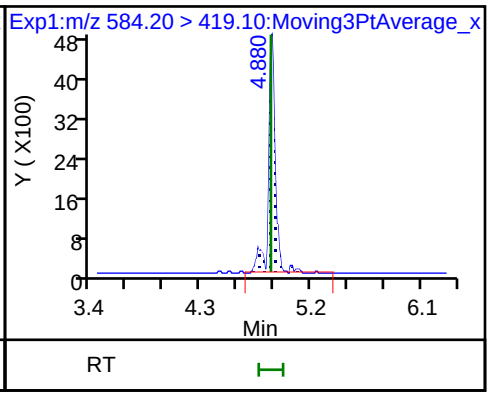

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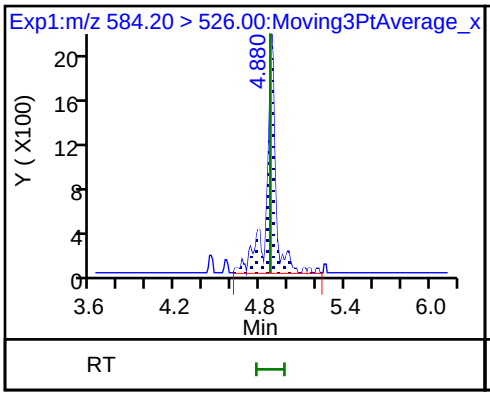
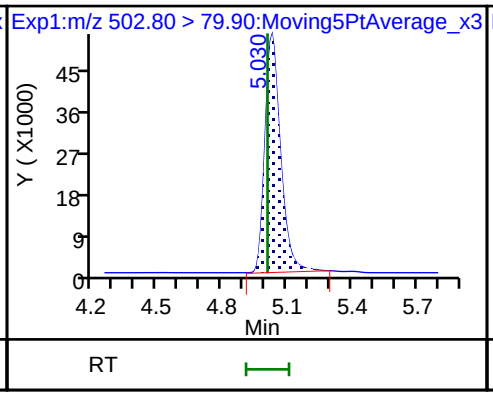
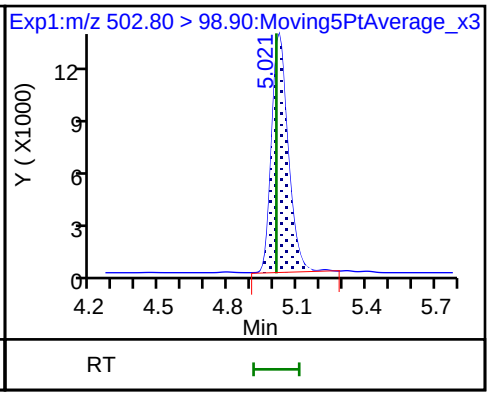


* 52 13C4 PFOS



* 52 13C4 PFOS



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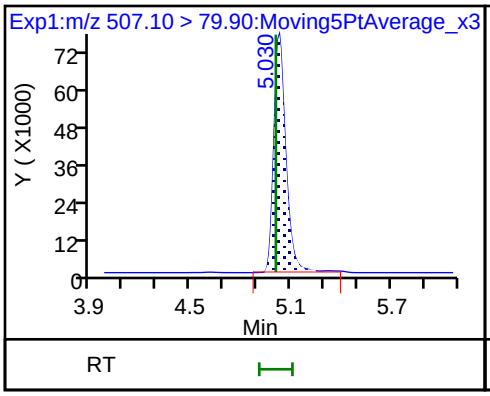

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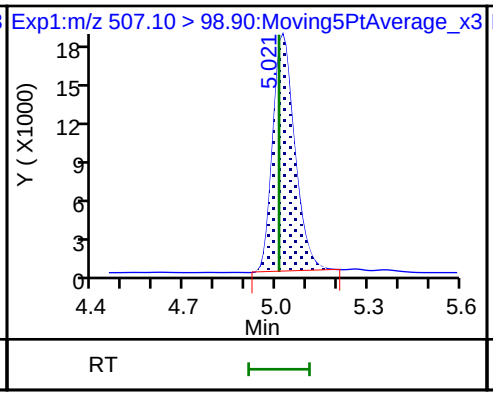

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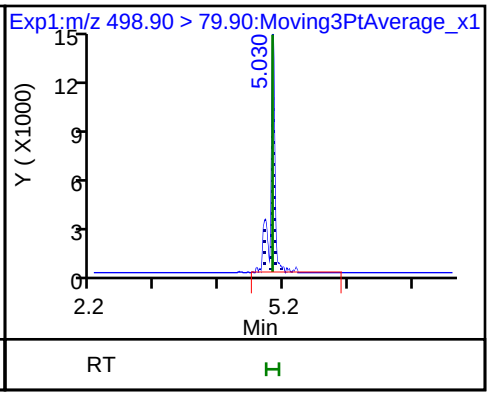

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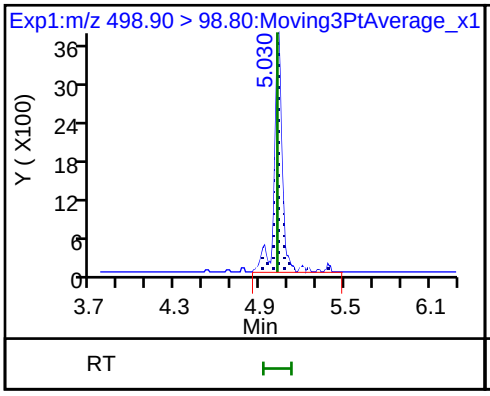

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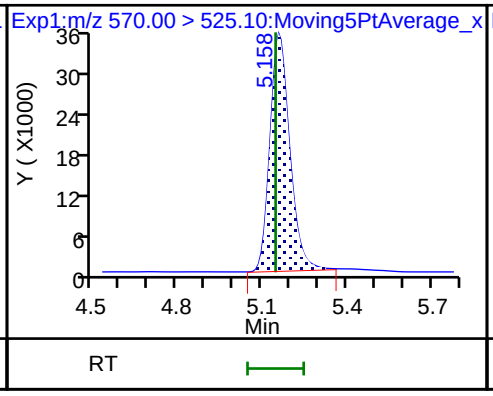

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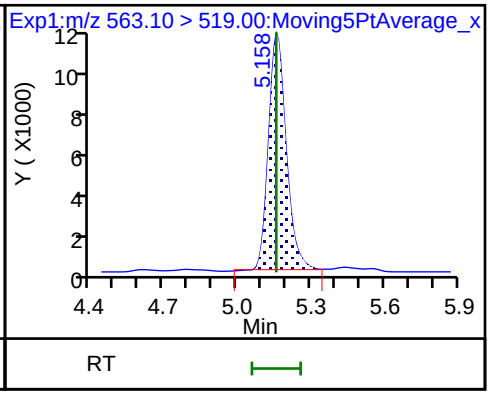

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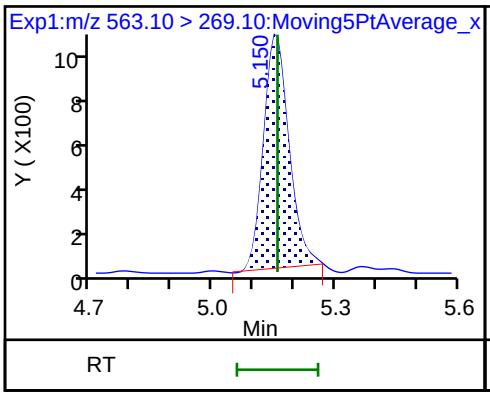

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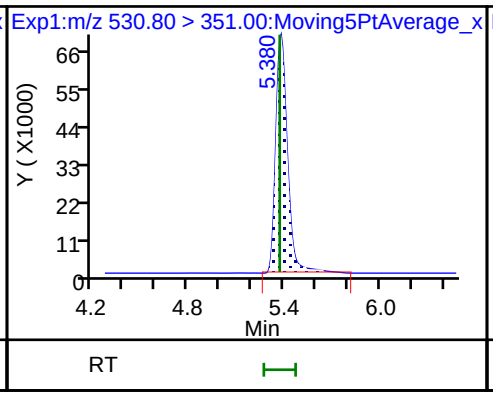

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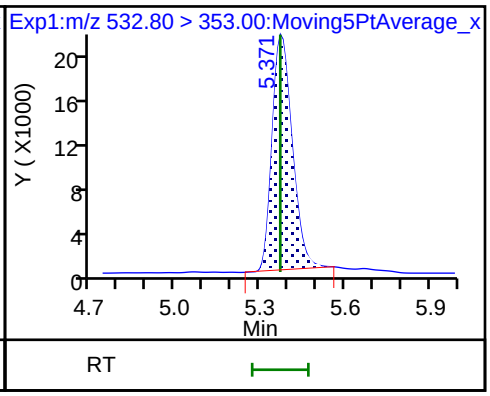
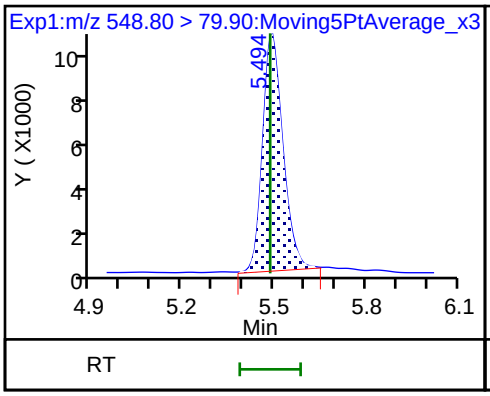


56 PFNS



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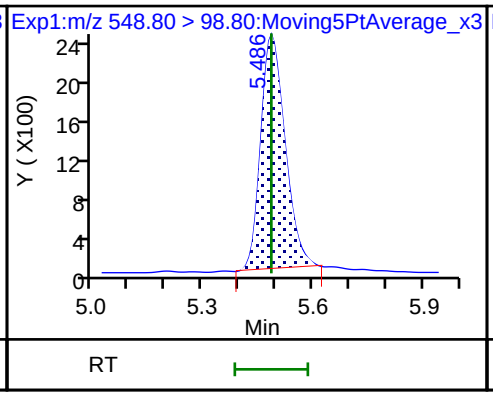
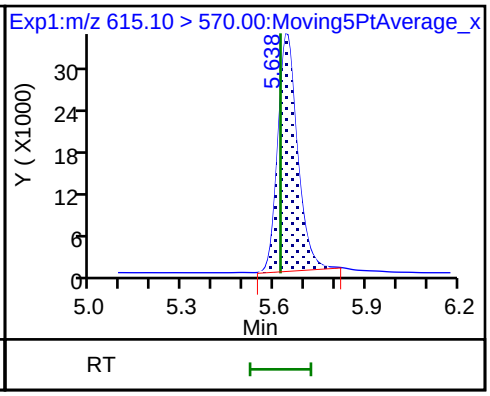


D 58 PFDoDA



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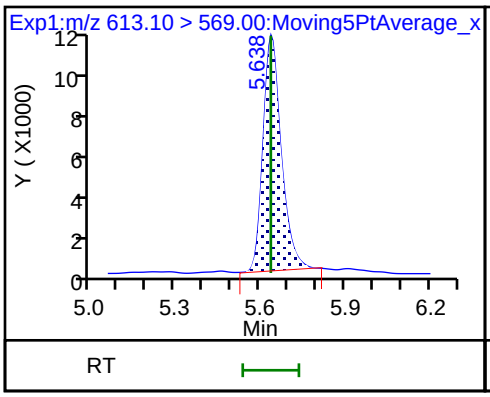

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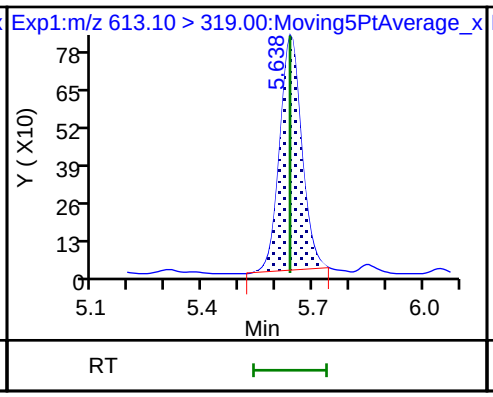

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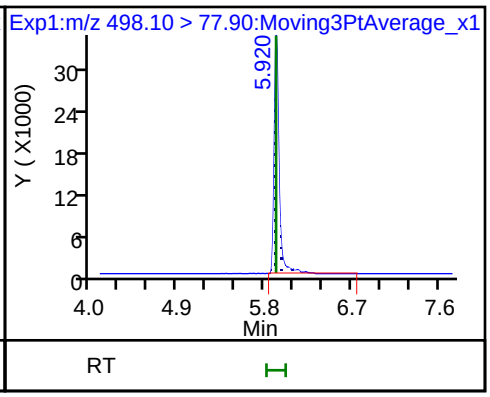

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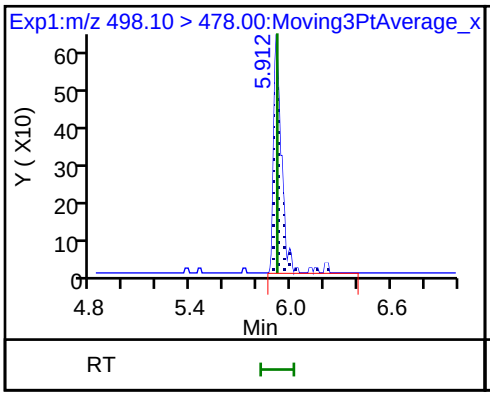
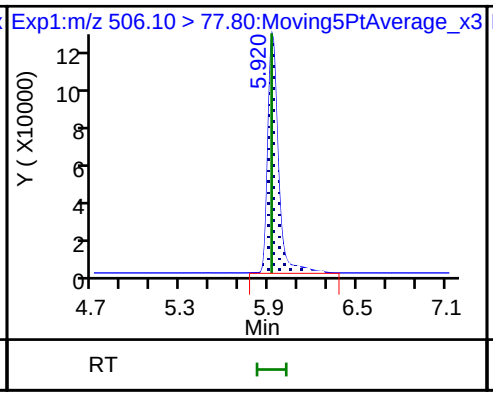
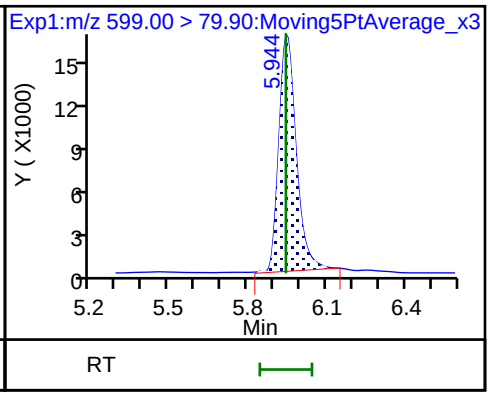


D 59 13C8 FOSA



61 PFDS



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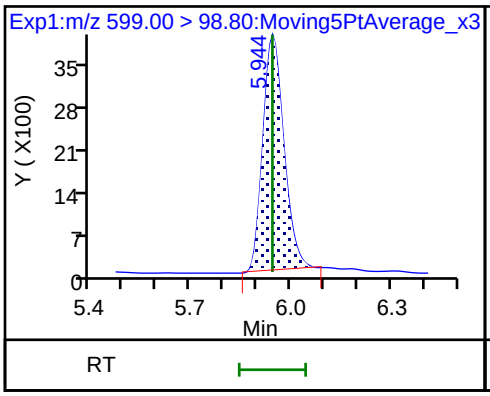

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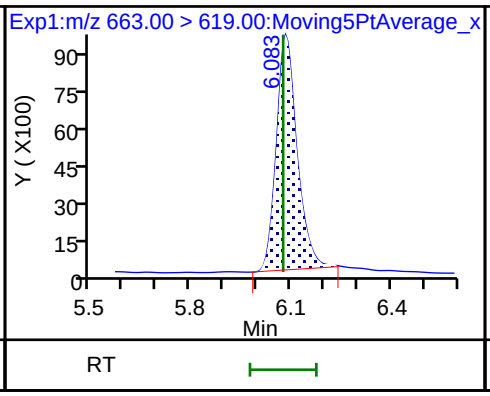

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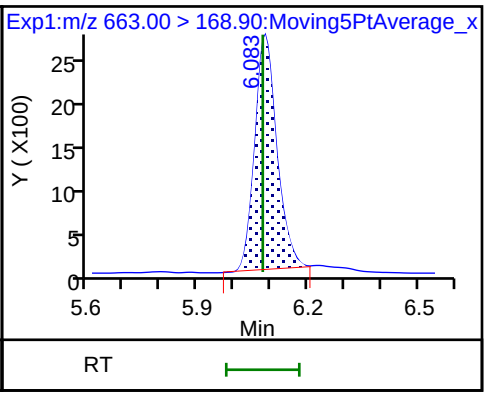

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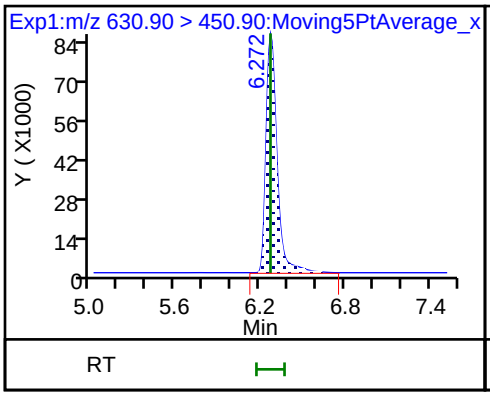
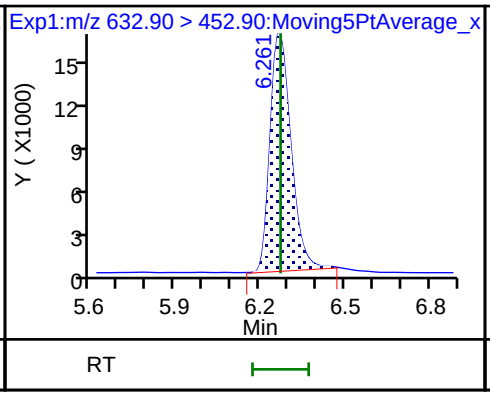


63 11ClFOS



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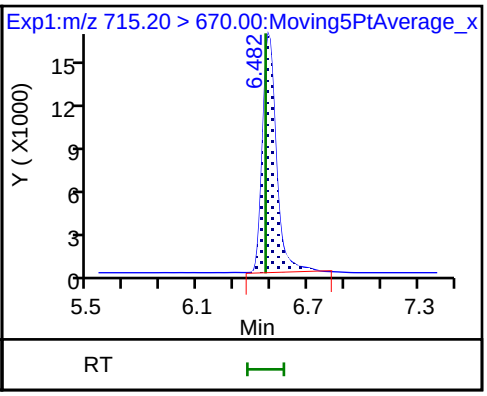

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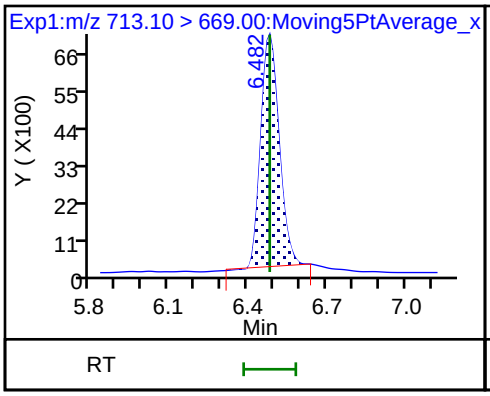

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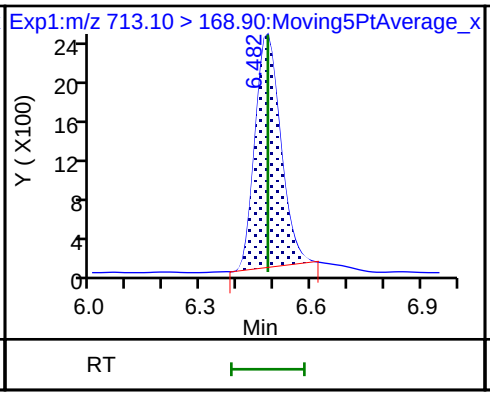

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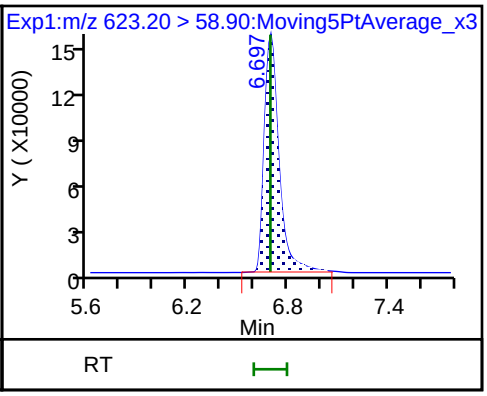
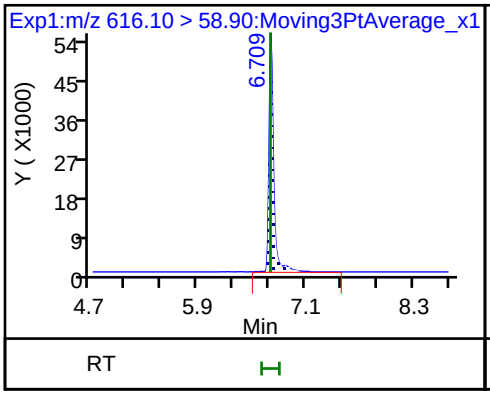


68 N-MeFOSE-M



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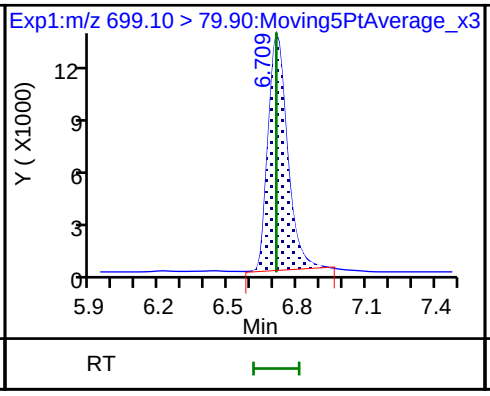

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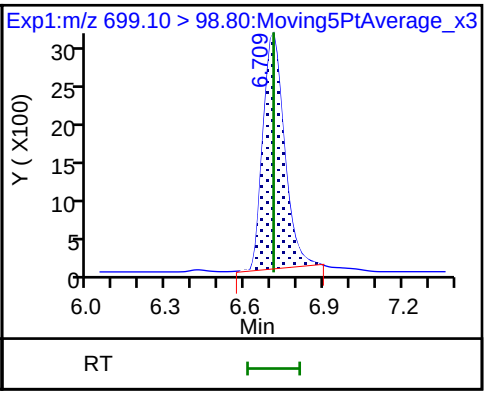

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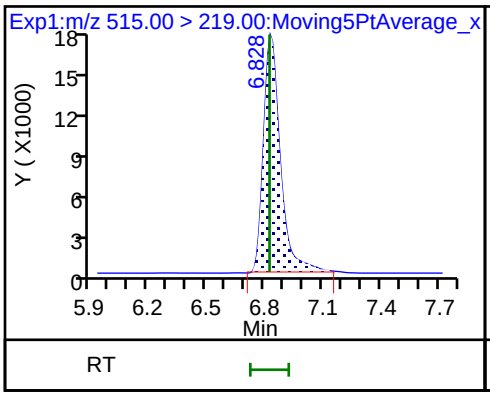

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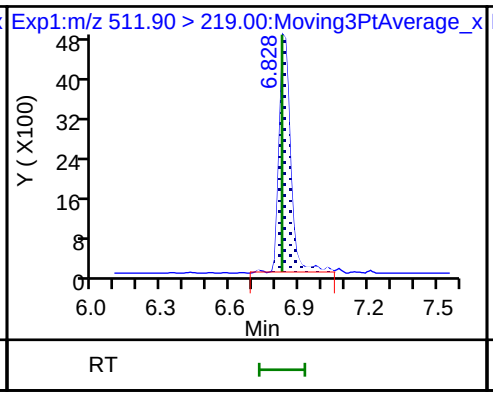

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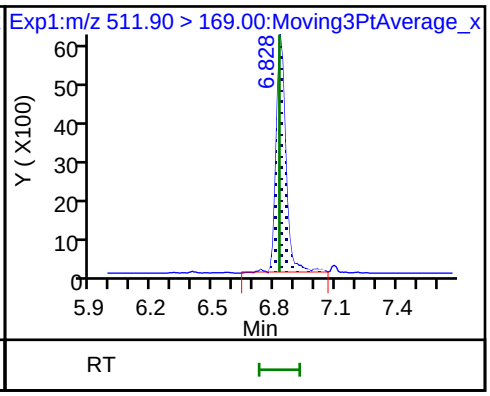

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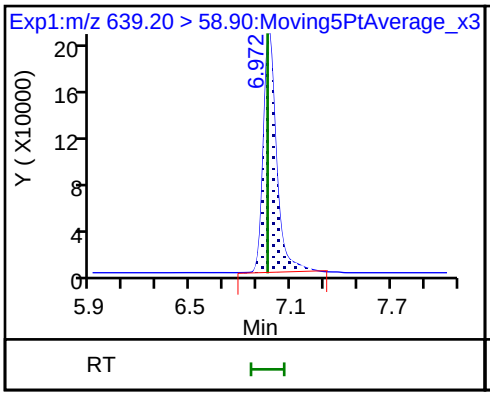
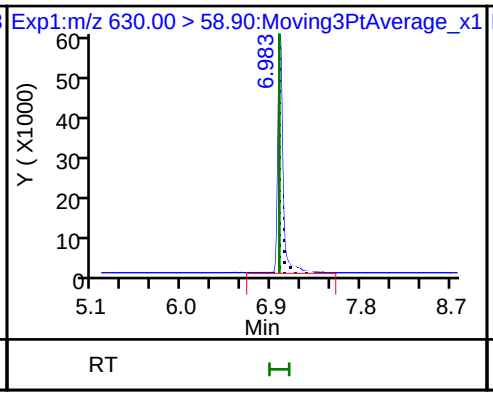


72 N-EtFOSE-M



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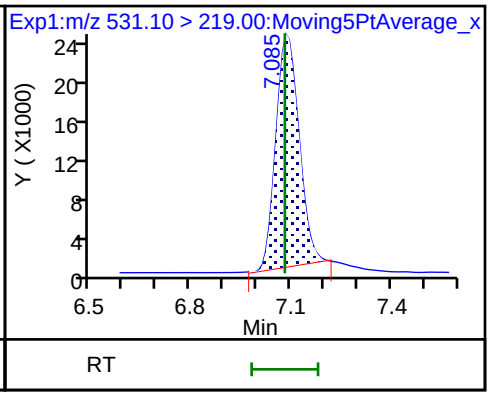
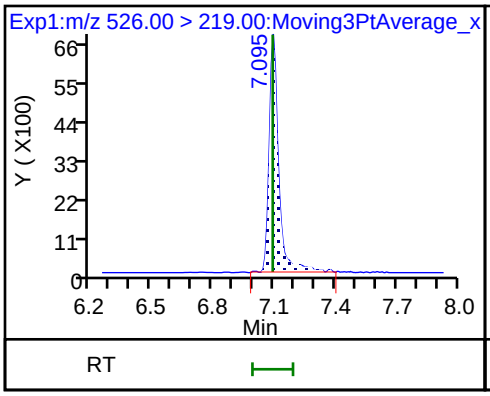
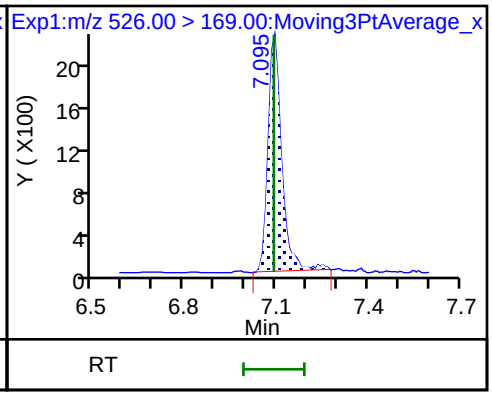


74 N-EtFOSA-M



74 N-EtFOSA-M



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

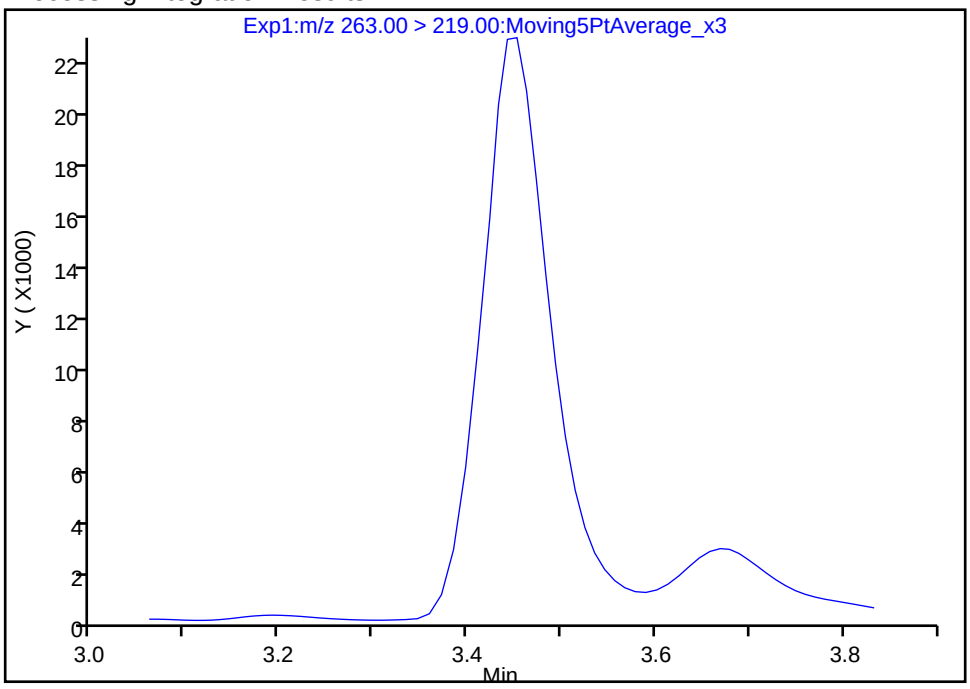
Data File:	\\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-02.d				
Injection Date:	05-Aug-2023 09:27:38	Instrument ID:	30729		
Lims ID:	IC CAL 2				
Client ID:					
Operator ID:	US19_USR_INS20263	ALS Bottle#:	20003	Worklist Smp#:	2
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

6 PFPA, CAS: 2706-90-3

Signal: 1

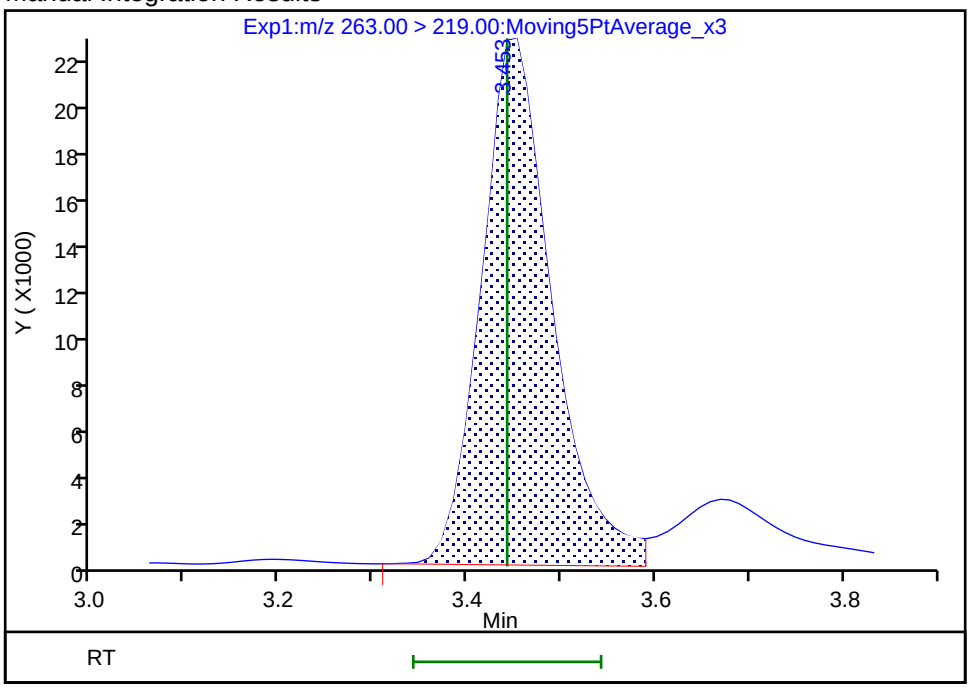
Not Detected
Expected RT: 3.44

Processing Integration Results



Manual Integration Results

RT: 3.45
Area: 118418
Amount: 1.003468
Amount Units: ng/ml



Reviewer: UCD3, 05-Aug-2023 11:10:14 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

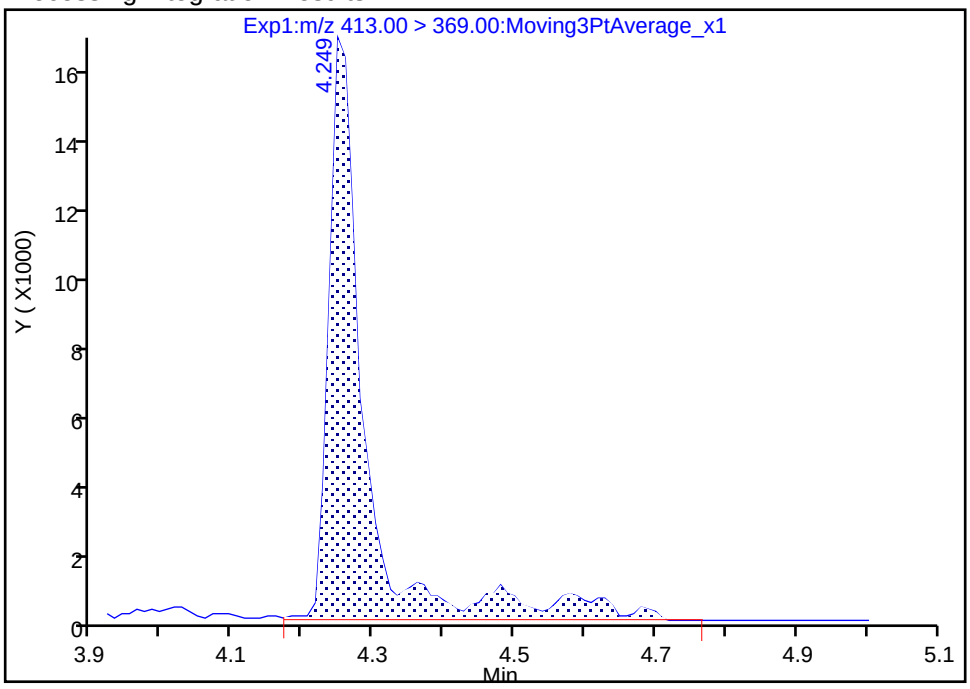
Data File:	\\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-02.d				
Injection Date:	05-Aug-2023 09:27:38	Instrument ID:	30729		
Lims ID:	IC CAL 2				
Client ID:					
Operator ID:	US19_USR_INS20263	ALS Bottle#:	20003	Worklist Smp#:	2
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

32 PFOA, CAS: 335-67-1

Signal: 1

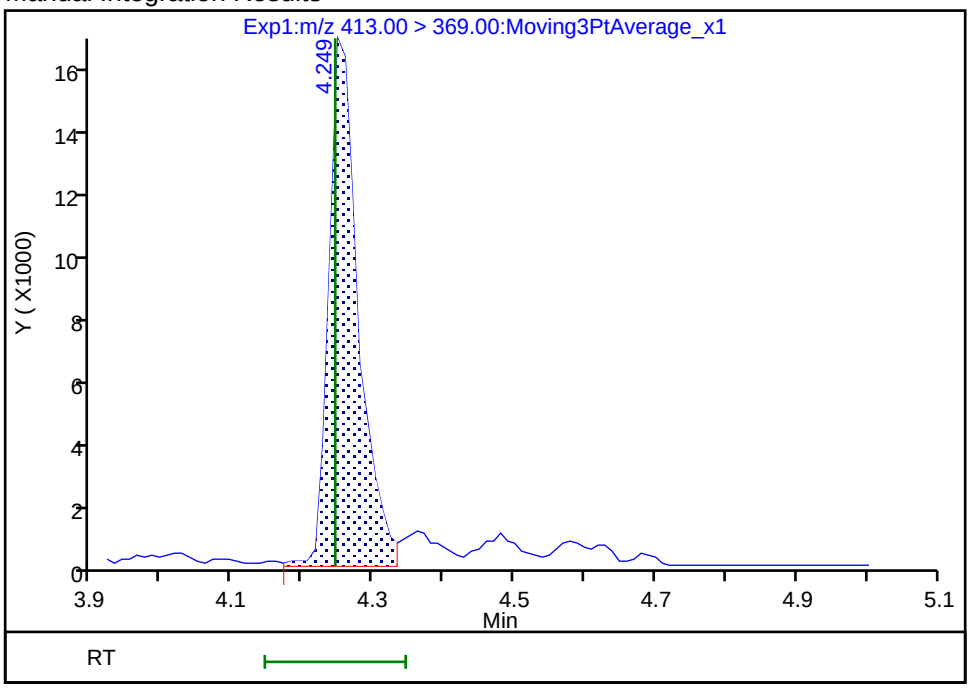
Processing Integration Results

RT: 4.25
Area: 61082
Amount: 0.538794
Amount Units: ng/ml



Manual Integration Results

RT: 4.25
Area: 48656
Amount: 0.454203
Amount Units: ng/ml



Reviewer: UCD3, 05-Aug-2023 11:10:30 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-03.d
Lims ID: IC CAL 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 05-Aug-2023 09:40:44 ALS Bottle#: 20004 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: IC CAL 3
Misc. Info.: Plate: 1 Rack: 1 410-0090708-003
Operator ID: US19_USR_INS20263 Instrument ID: 30729
Sublist: chrom-PFAS_30729_1633*sub4

Method: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\PFAS_30729_1633.m
Limit Group: LC - 1633 ICAL
Last Update: 05-Aug-2023 12:07:30 Calib Date: 05-Aug-2023 11:25:28
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-11.d

Column 1 : Det: EXP1
Process Host: CTX1666

First Level Reviewer: UCD3 Date: 05-Aug-2023 11:11:39
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4-PFBA										
216.80 > 171.90	2.940	2.927	0.013	1.000	1185361	9.75		97.5	69435	
* 3 13C3PFBA										
216.00 > 172.00	2.940	2.927	0.013		749178	5.00			1736	
1 PFBA										
212.80 > 168.90	2.932	2.939	-0.007	0.997	461722	4.66		93.3	2415	
5 3:3 FTCA										
241.00 > 177.00	3.164	3.163	0.001	0.919	36625	6.13	Target=1.07	98.0	2631	
241.00 > 117.00	3.164	3.163	0.001	0.919	35364		1.04(0.54-1.61)	98.0	1128	
4 PFMPA										
229.00 > 84.90	3.164	3.163	0.001	0.919	306891	2.57		103	21093	
D 7 13C5 PFPeA										
268.30 > 223.00	3.445	3.439	0.005	0.918	329205	4.96		99.2	20689	
6 PFPA										
263.00 > 219.00	3.445	3.442	0.002	1.000	286865	2.41	Target=1147.20	96.3	3441	
263.00 > 68.90	3.435	3.442	-0.007	0.997	347		826.70(573.60-1720.80)	96.3	22.3	
8 PFMBA										
279.00 > 85.10	3.559	3.556	0.003	1.033	240013	2.51		100	14741	
D 10 13C2-4:2FTS										
329.10 > 80.90	3.638	3.632	0.006	0.827	56205	4.52	Target=0.30	96.3	2699	
329.10 > 309.00	3.627	3.632	-0.005	0.824	151323		0.37(0.15-0.45)	96.3	9116	
9 4:2FTS										
327.10 > 307.00	3.627	3.636	-0.009	0.997	159772	4.98	Target=1.45	106	9743	
327.10 > 80.90	3.638	3.636	0.002	1.000	100457		1.59(0.72-2.17)	106	6054	
12 NFDHA										
295.00 > 201.00	3.730	3.728	0.002	0.994	32001	2.80	Target=2.02	112	2113	
295.00 > 84.90	3.719	3.728	-0.009	0.992	13075		2.45(1.01-3.03)	112	919	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 14 13C5 PFHxA										
318.00 > 273.00	3.750	3.745	0.005	1.000	40709	2.52	Target=14.90	101	2673	
318.00 > 120.30	3.740	3.745	-0.005	0.997	2757		14.77(7.45-22.34)	101	194	
* 15 13C2 PFHxA										M
315.10 > 270.00	3.750	3.745	0.005		230913	2.50	Target=218.11		14534	
315.10 > 119.40	3.750	3.745	0.005		1372		168.30(109.05-327.16)		93.0	M
13 PFHxA										
313.00 > 269.00	3.750	3.749	0.001	1.000	101748	1.15	Target=12.56	92.0	3397	
313.00 > 118.90	3.750	3.749	0.001	1.000	7608		13.37(6.28-18.83)	92.0	476	
16 5:3 FTCA										
341.00 > 237.10	3.845	3.843	0.002	1.025	856364	32.7	Target=2.80	105	51352	
341.00 > 217.00	3.845	3.843	0.002	1.025	279461		3.06(1.40-4.19)	105	17225	
D 18 13C3 PFBS										
302.10 > 79.90	3.856	3.850	0.006	0.876	416704	2.37	Target=6.66	102	25792	
302.10 > 98.90	3.856	3.850	0.006	0.876	57447		7.25(3.33-9.99)	102	3594	
17 PFBS										
298.70 > 79.90	3.856	3.854	0.002	1.000	110582	1.02	Target=3.12	92.2	4165	
298.70 > 98.80	3.856	3.854	0.002	1.000	37433		2.95(1.56-4.67)	92.2	2415	
D 20 13C3 HFPO-DA										
286.90 > 168.90	3.867	3.861	0.006	1.031	1071866	10.5	Target=27.88	105	65376	
286.90 > 184.90	3.856	3.861	-0.005	1.028	34362		31.19(13.94-41.82)	105	2020	
19 HFPO-DA										
284.90 > 168.90	3.867	3.877	-0.010	1.000	349507	4.76	Target=18.47	95.3	1028	
284.90 > 184.90	3.867	3.877	-0.010	1.000	18609		18.78(9.23-27.70)	95.3	1082	
23 PFEESA										
314.80 > 134.90	4.008	4.006	0.002	1.069	1029081	2.20	Target=14.12	99.0	49189	
314.80 > 82.90	3.997	4.006	-0.009	1.066	84813		12.13(7.06-21.18)	99.0	3126	
D 25 13C4 PFHpA										
367.10 > 322.00	4.018	4.013	0.005	1.071	515940	2.67		107	32020	
24 PFHpA										
363.10 > 319.00	4.008	4.017	-0.009	0.997	229344	1.18	Target=3.63	94.2	8512	
363.10 > 169.00	4.008	4.017	-0.009	0.997	58902		3.89(1.81-5.44)	94.2	3721	
26 ADONA										
376.90 > 250.90	4.095	4.105	-0.010	1.059	961407	4.64	Target=12.35	98.2	57448	
376.90 > 84.80	4.095	4.105	-0.010	1.059	70233		13.69(6.17-18.52)	98.2	4316	
D 29 13C2-6:2FTS										
429.10 > 80.90	4.129	4.124	0.005	0.938	29405	4.58	Target=0.15	96.2	1849	
429.10 > 409.00	4.118	4.124	-0.006	0.936	185668		0.16(0.07-0.22)	96.2	11560	
27 6:2FTS										
427.10 > 407.00	4.118	4.127	-0.009	0.997	131285	4.65	Target=1.66	97.9	7713	
427.10 > 80.90	4.118	4.127	-0.009	0.997	86210		1.52(0.83-2.50)	97.9	5415	
28 PFPeS										
349.10 > 79.90	4.151	4.149	0.002	0.941	223866	1.20	Target=3.80	102	13108	
349.10 > 98.90	4.140	4.149	-0.009	0.939	53227		4.21(1.90-5.70)	102	3198	
32 PFOA										M
413.00 > 369.00	4.250	4.245	0.005	1.000	109091	1.04	Target=2.19	82.9	89.5	M
413.00 > 169.00	4.250	4.245	0.005	1.000	55478		1.97(1.09-3.28)	82.9	112	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 30 13C4 PFOA										
417.10 > 172.00	4.250	4.245	0.005		22189	2.50			1441	
D 31 13C8 PFOA										
421.10 > 376.00	4.250	4.245	0.005	1.000	532953	2.53		101	33455	
* 35 18O2 PFHxS										
403.00 > 83.90	4.401	4.396	0.005		401678	2.37			27103	
D 36 13C3 PFHxS										
402.10 > 79.90	4.411	4.396	0.015	1.002	448244	2.35	Target=3.87	99.0	30367	
402.10 > 98.80	4.401	4.396	0.005	1.000	118479		3.78(1.93-5.80)	99.0	6240	
34 PFHxS										
398.70 > 79.90	4.401	4.408	-0.007	0.998	110212	1.11	Target=3.41	96.8	535	
398.70 > 98.90	4.401	4.408	-0.007	0.998	37035		2.98(1.70-5.11)	96.8	134	
39 PFNA										
463.00 > 419.00	4.491	4.415	0.076	1.000	120182	1.30	Target=4.66	104	284	
463.00 > 219.00	4.481	4.415	0.066	0.998	24924		4.82(2.33-7.00)	104	91.9	
33 7:3 FTCA										
441.00 > 316.90	4.420	4.427	-0.007	1.179	551050	29.7	Target=0.66	94.9	35805	
441.00 > 336.90	4.420	4.427	-0.007	1.179	905656		0.61(0.33-1.00)	94.9	59782	
* 37 13C5 PFNA										
468.00 > 423.00	4.481	4.477	0.004		128615	1.25			8675	
D 38 13C9 PFNA										
472.10 > 427.00	4.491	4.487	0.004	1.002	137831	1.27		101	7103	
D 41 13C2-8:2FTS										
529.10 > 80.90	4.600	4.596	0.004	1.045	15744	4.59	Target=0.14	95.6	1059	
529.10 > 509.00	4.590	4.596	-0.006	1.043	105200		0.15(0.07-0.21)	95.6	7214	
40 8:2FTS										
527.10 > 507.00	4.600	4.599	0.001	1.000	89095	4.84	Target=1.18	101	5913	
527.10 > 80.80	4.600	4.599	0.001	1.000	74994		1.19(0.59-1.77)	101	5004	
42 PFHpS										
449.00 > 79.90	4.670	4.669	0.001	0.930	179179	1.22	Target=3.61	102	8916	
449.00 > 98.80	4.670	4.669	0.001	0.930	49193		3.64(1.80-5.41)	102	3360	
D 44 d3-NMeFOSAA										
573.20 > 419.00	4.720	4.707	0.013	0.940	262546	5.00		99.9	13008	
43 NMeFOSAA										
570.10 > 419.00	4.720	4.719	0.001	1.000	62536	1.27	Target=1.96	102	379	
570.10 > 483.00	4.720	4.719	0.001	1.000	34687		1.80(0.98-2.93)	102	9672	
* 46 13C2 PFDA										
515.10 > 470.10	4.775	4.763	0.012		175085	1.25			8850	
D 47 13C6 PFDA										
519.10 > 474.10	4.775	4.763	0.012	1.000	185716	1.31		105	12738	
45 PFDA										
512.90 > 469.00	4.766	4.765	0.001	0.998	112759	1.07	Target=6.39	85.4	3945	
512.90 > 219.00	4.766	4.765	0.001	0.998	21019		5.36(3.20-9.59)	85.4	1483	
D 49 d5-NEtFOSAA										
589.20 > 419.00	4.872	4.860	0.012	0.970	240191	4.91		98.2	15853	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
48 NEtFOSAA										
584.20 > 419.10	4.872	4.871	0.001	1.000	40592	1.13	Target=1.68	90.4	209	
584.20 > 526.00	4.872	4.871	0.001	1.000	28590		1.42(0.84-2.52)	90.4	87.9	
* 52 13C4 PFOS										
502.80 > 79.90	5.022	5.009	0.013		253076	2.40	Target=3.81		10379	
502.80 > 98.90	5.013	5.009	0.004		70288		3.60(1.91-5.72)		4807	
D 51 13C8 PFOS										
507.10 > 79.90	5.022	5.009	0.013	1.000	348150	2.31	Target=4.02	96.6	10154	
507.10 > 98.90	5.022	5.009	0.013	1.000	90397		3.85(2.01-6.03)	96.6	6088	
50 PFOS										
498.90 > 79.90	5.022	5.021	0.001	1.000	157673	1.18	Target=4.56	102	895	
498.90 > 98.80	5.022	5.021	0.001	1.000	33507		4.71(2.28-6.83)	102	250	
D 54 13C7 PFUnA										
570.00 > 525.10	5.150	5.147	0.003	1.078	167233	1.29		103	11532	
53 PFUnA										
563.10 > 519.00	5.150	5.158	-0.008	1.000	126758	1.07	Target=11.35	85.7	5323	
563.10 > 269.10	5.150	5.158	-0.008	1.000	12612		10.05(5.67-17.02)	85.7	925	
55 9ClFOS										
530.80 > 351.00	5.371	5.371	0.0	1.389	869414	4.55	Target=3.22	97.4	56243	
532.80 > 353.00	5.371	5.371	0.0	1.389	274077		3.17(1.61-4.83)	97.4	13286	
56 PFNS										
548.80 > 79.90	5.487	5.486	0.001	1.093	120127	1.22	Target=4.35	101	6486	
548.80 > 98.80	5.479	5.486	-0.007	1.091	31747		3.78(2.18-6.53)	101	2245	
D 58 PFDoDA										
615.10 > 570.00	5.638	5.620	0.018	1.181	152303	1.32		106	8712	
57 PFDoA										
613.10 > 569.00	5.631	5.637	-0.006	0.999	133034	1.16	Target=16.83	92.6	5863	
613.10 > 319.00	5.631	5.637	-0.006	0.999	8529		15.60(8.42-25.25)	92.6	673	
60 PFOSA										
498.10 > 77.90	5.920	5.917	0.003	1.000	289776	1.21	Target=57.83	97.0	5317	
498.10 > 478.00	5.920	5.917	0.003	1.000	5617		51.59(28.91-86.74)	97.0	40.5	
D 59 13C8 FOSA										
506.10 > 77.80	5.920	5.917	0.003	1.179	579394	2.63		105	39550	
61 PFDS										
599.00 > 79.90	5.936	5.944	-0.008	1.182	194517	1.26	Target=4.33	104	13640	
599.00 > 98.80	5.936	5.944	-0.008	1.182	45374		4.29(2.16-6.49)	104	3419	
62 PFTrDA										
663.00 > 619.00	6.077	6.076	0.001	0.937	115940	1.24	Target=3.74	99.6	8967	
663.00 > 168.90	6.077	6.076	0.001	0.937	29479		3.93(1.87-5.60)	99.6	2307	
63 11ClFOS										
630.90 > 450.90	6.261	6.272	-0.011	1.619	1160403	4.54	Target=5.39	96.2	70537	
632.90 > 452.90	6.261	6.272	-0.011	1.619	228567		5.08(2.70-8.09)	96.2	14372	
D 65 13C2 PFTeDA										
715.20 > 670.00	6.482	6.468	0.014	1.357	80387	1.24		99.1	5420	
64 PFTeDA										
713.10 > 669.00	6.472	6.482	-0.010	0.998	89109	1.21	Target=3.33	96.9	5601	
713.10 > 168.90	6.472	6.482	-0.010	0.998	29904		2.98(1.66-4.99)	96.9	2006	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 67 d7-N-Me-FOSE										
623.20 > 58.90	6.697	6.694	0.003	1.334	939642	25.9		104	38299	
68 N-MeFOSE-M										
616.10 > 58.90	6.709	6.706	0.003	1.002	491836	11.8		94.1	5554	
66 PFDoS										
699.10 > 79.90	6.709	6.708	0.001	1.336	207247	1.28	Target=4.86	106	11592	
699.10 > 98.80	6.697	6.708	-0.011	1.334	40556		5.11(2.43-7.28)	106	2259	
D 69 d3-NMePFOSA										
515.00 > 219.00	6.828	6.825	0.003	1.360	109375	2.53		101	6051	
70 NMeFOSA										
511.90 > 219.00	6.828	6.825	0.003	1.000	43009	1.24	Target=0.79	99.0	545	
511.90 > 169.00	6.828	6.825	0.003	1.000	55410		0.78(0.40-1.18)	99.0	644	
D 71 d9-N-EtFOSE										
639.20 > 58.90	6.962	6.959	0.003	1.386	1122650	25.2		101	40458	
72 N-EtFOSE-M										
630.00 > 58.90	6.982	6.979	0.003	1.003	518625	12.3		98.3	5304	
D 73 d5-NEtPFOSA										
531.10 > 219.00	7.084	7.081	0.003	1.411	109928	2.37		94.8	3227	
74 N-EtFOSA-M										
526.00 > 219.00	7.095	7.092	0.003	1.001	55385	1.31	Target=3.02	105	1220	
526.00 > 169.00	7.095	7.092	0.003	1.001	17651		3.14(1.51-4.53)	105	394	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFC_STD3_1633_00007 Amount Added: 1.00 Units: mL

Report Date: 05-Aug-2023 12:07:35 Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-03.d

Injection Date: 05-Aug-2023 09:40:44 Instrument ID: 30729

Lims ID: IC CAL 3

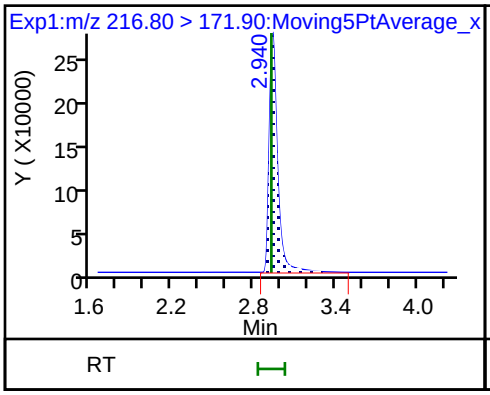
Client ID:

Operator ID: US19_USR_INS20263 ALS Bottle#: 20004 Worklist Smp#: 3

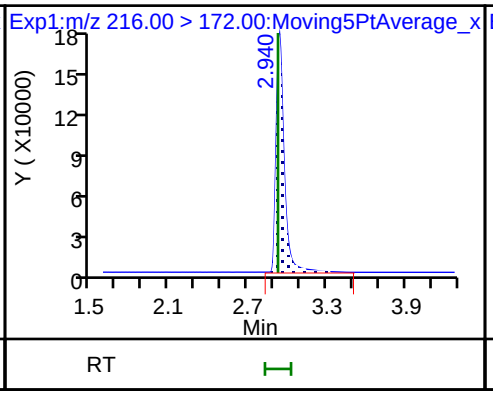
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: PFAS_30729_1633 Limit Group: LC - 1633 ICAL

D 2 13C4-PFBA



* 3 13C3PFBA



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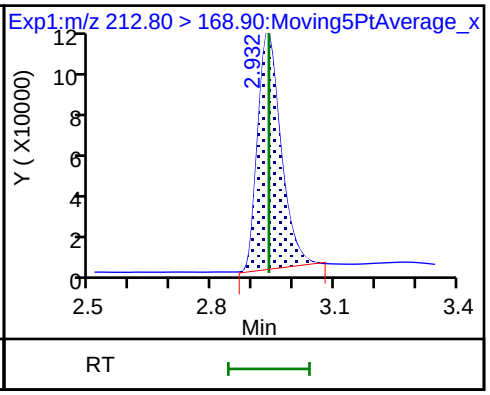

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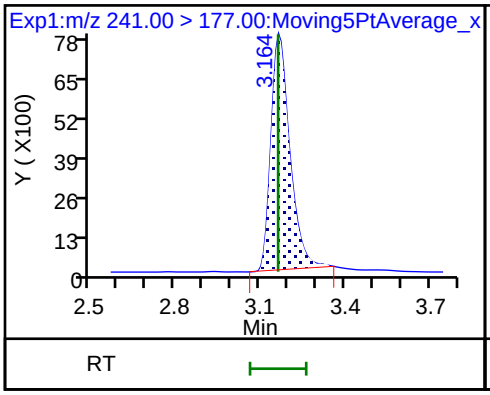

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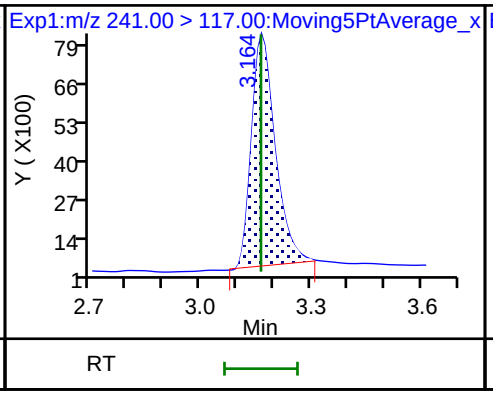

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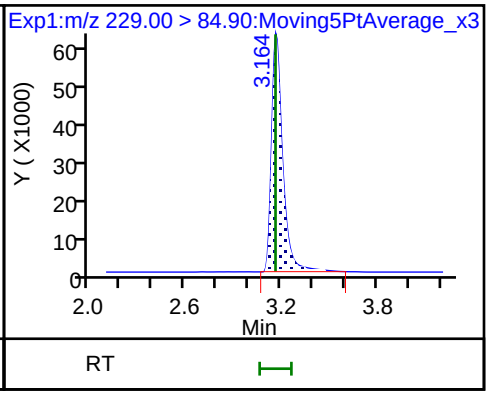

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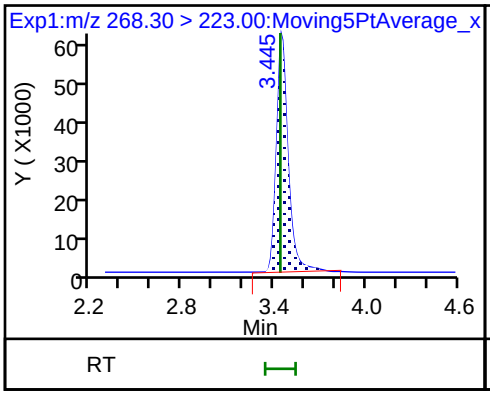

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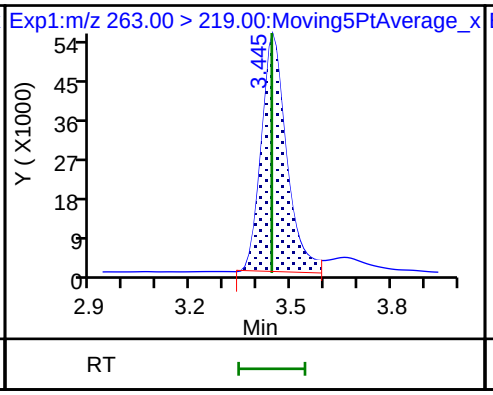

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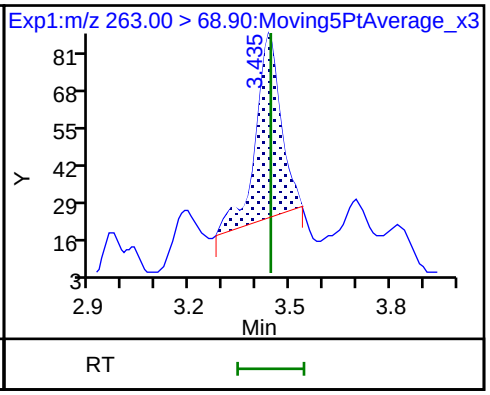

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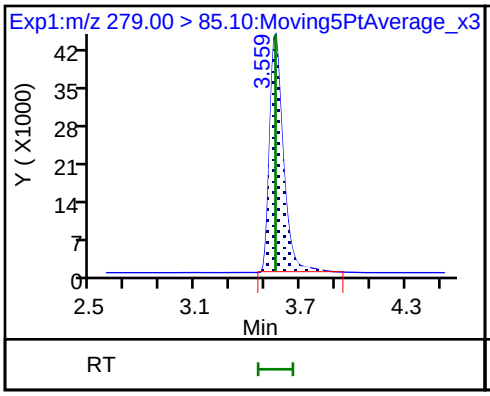

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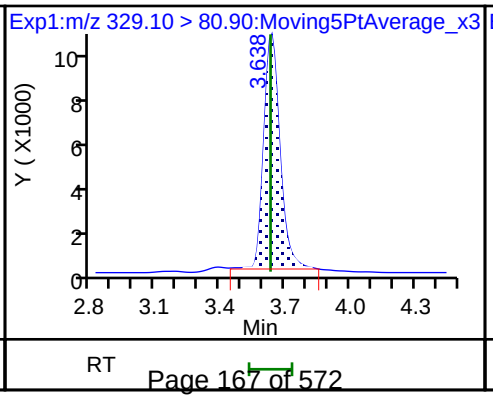

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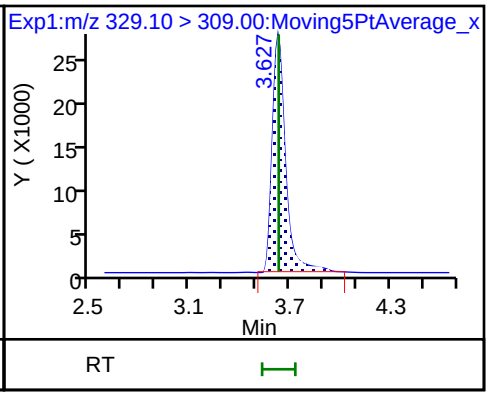

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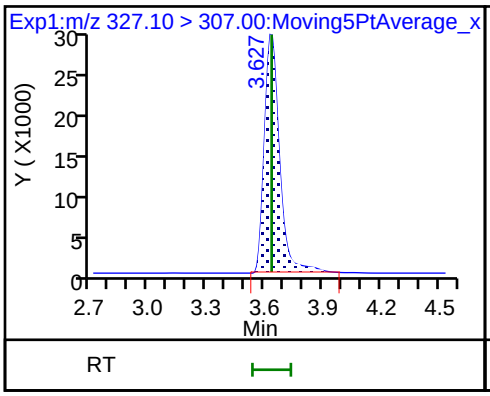

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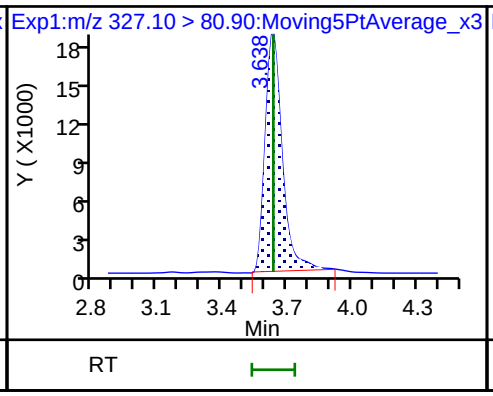
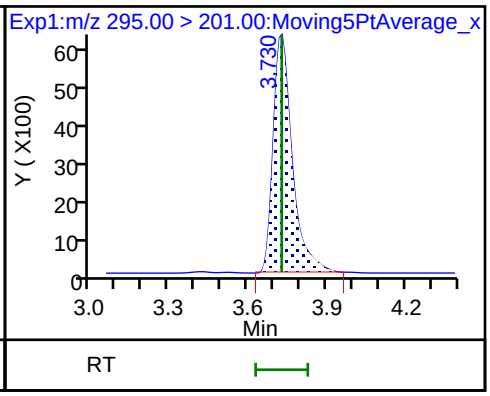


12 NFDHA



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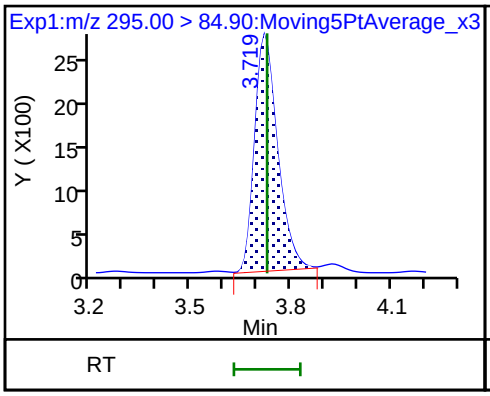

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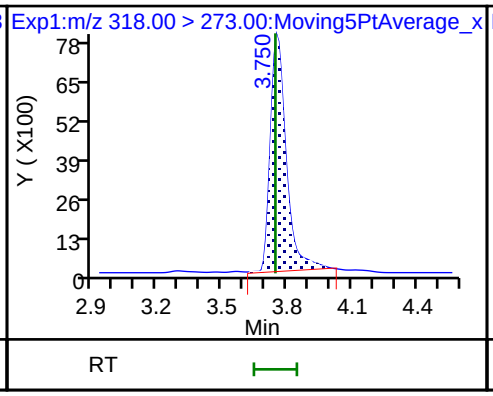

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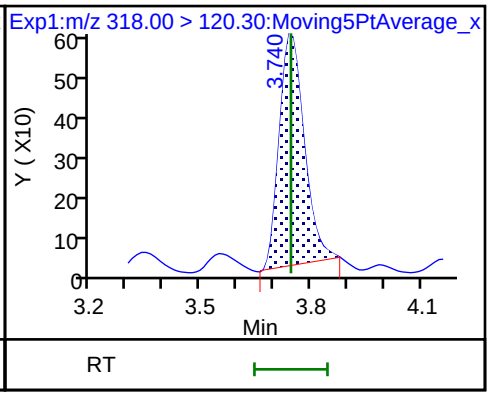

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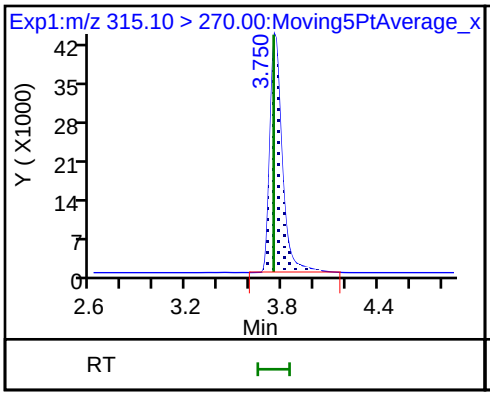

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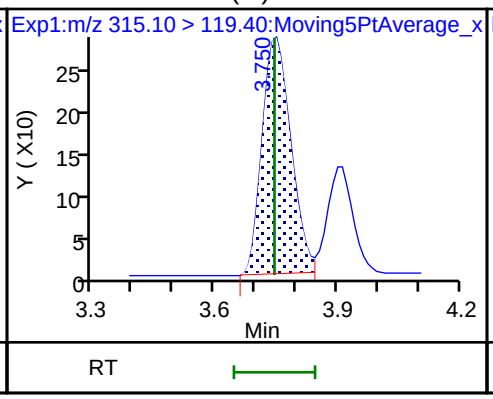
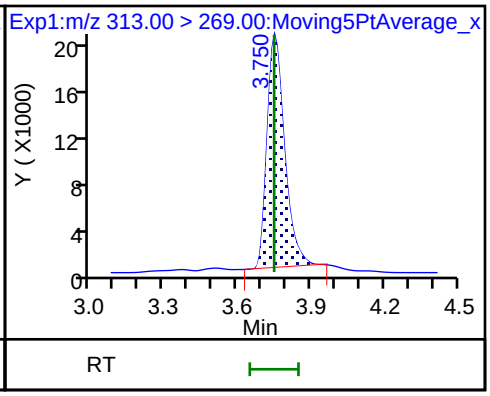


13 PFHxA



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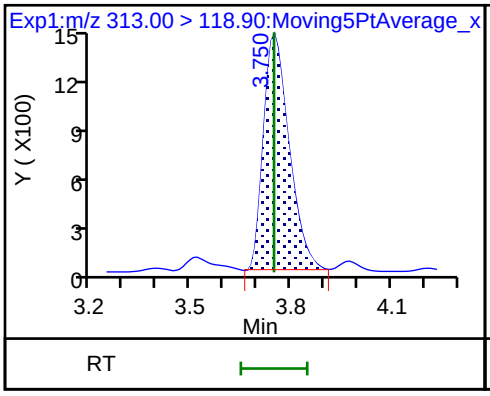
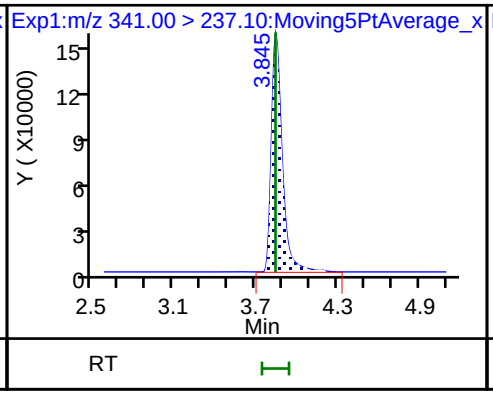
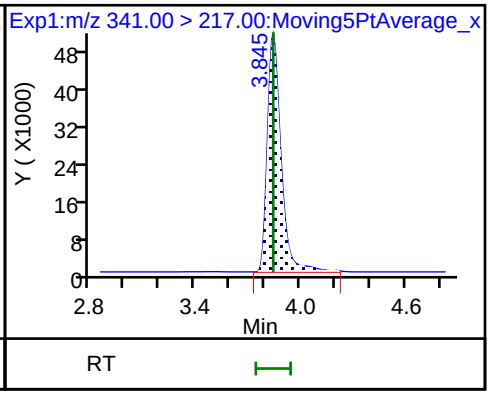


16 5:3 FTCA



16 5:3 FTCA



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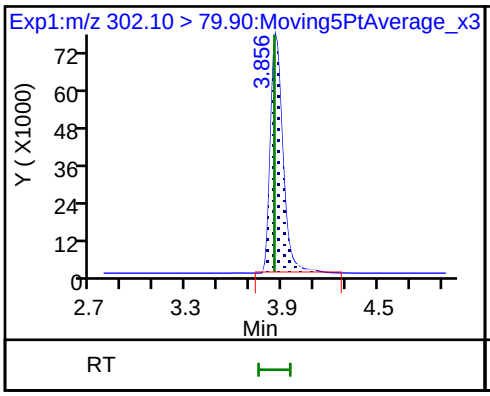

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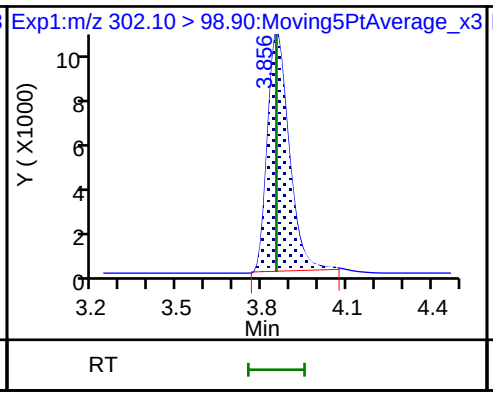

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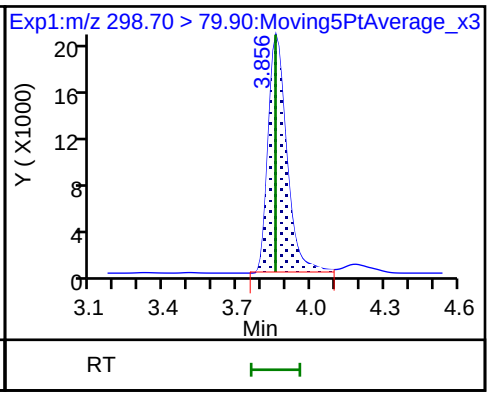

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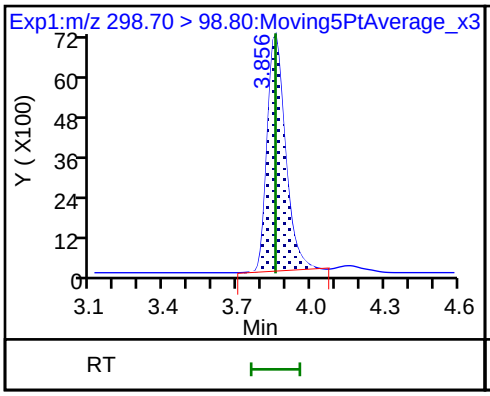

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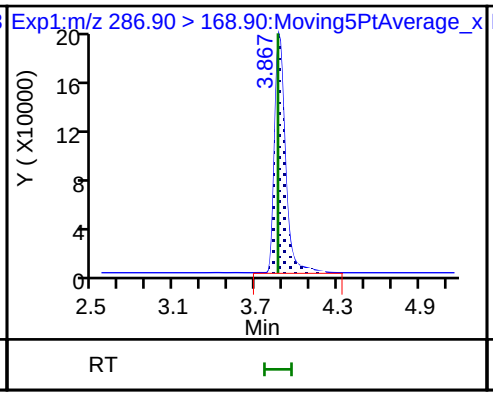

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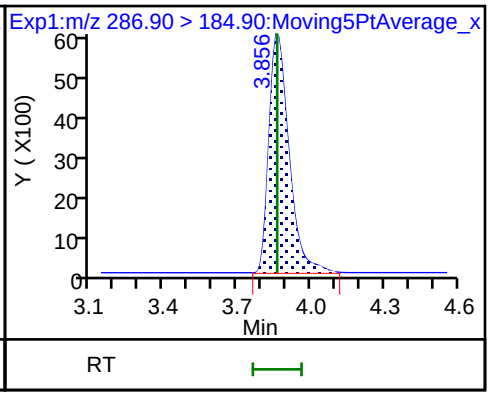
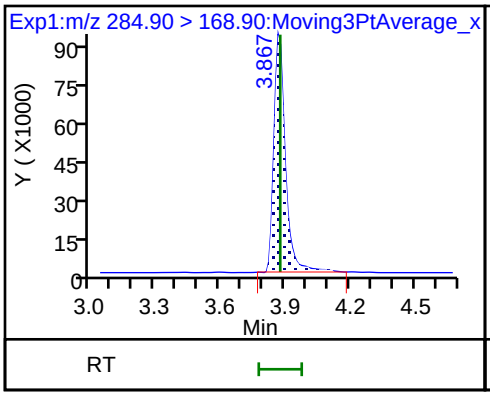


19 HFPO-DA



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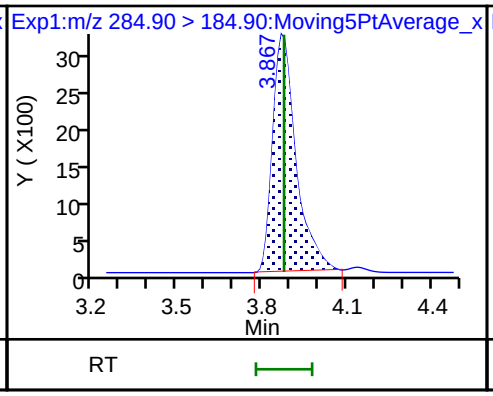
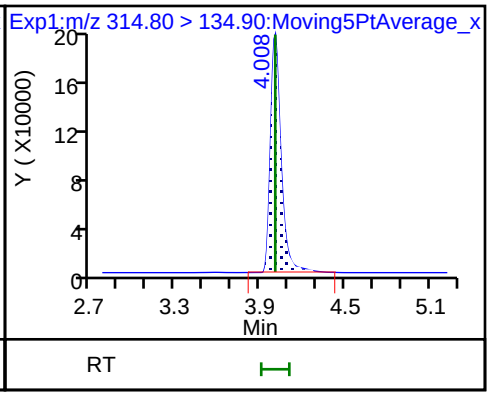


23 PFEESA



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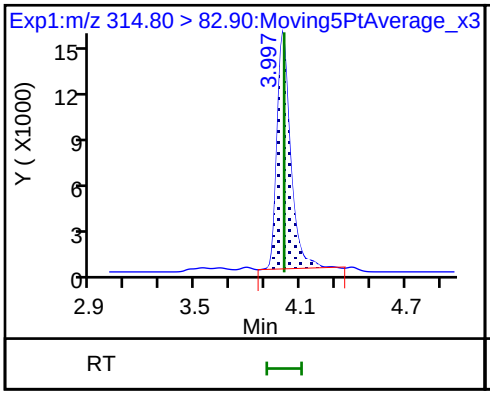

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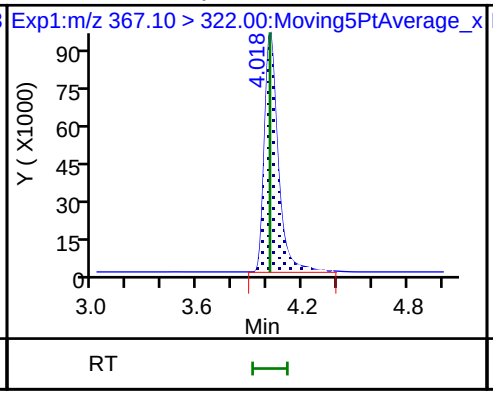

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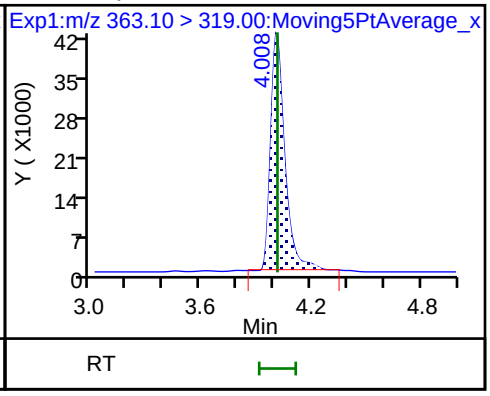

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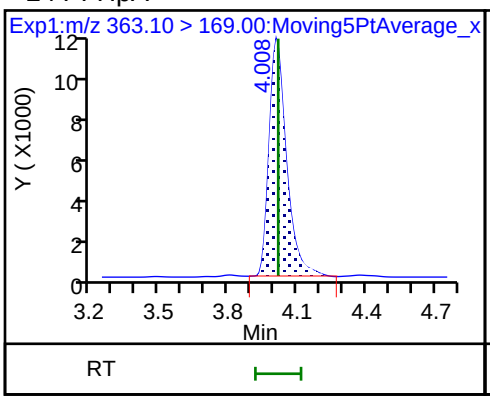
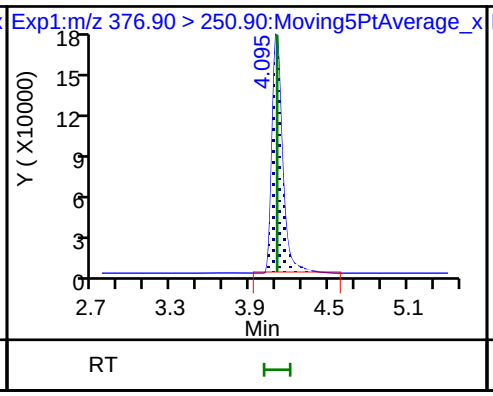


26 ADONA



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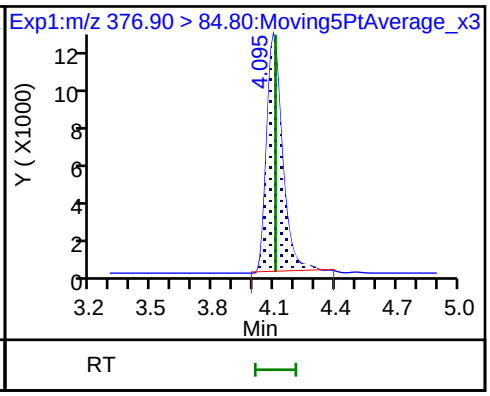

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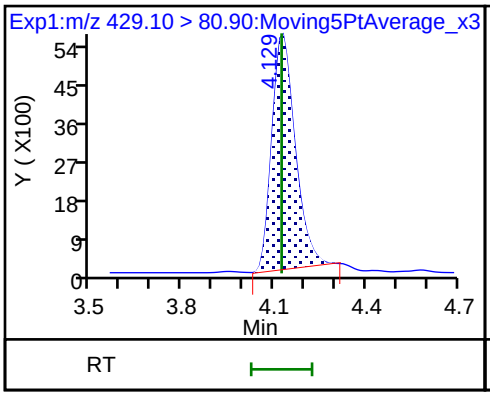

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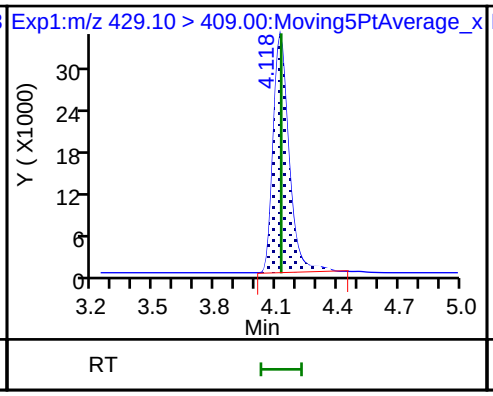
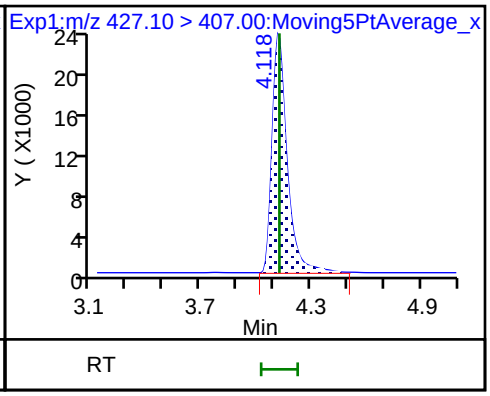
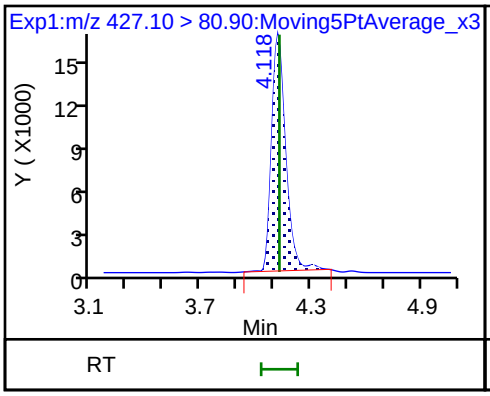


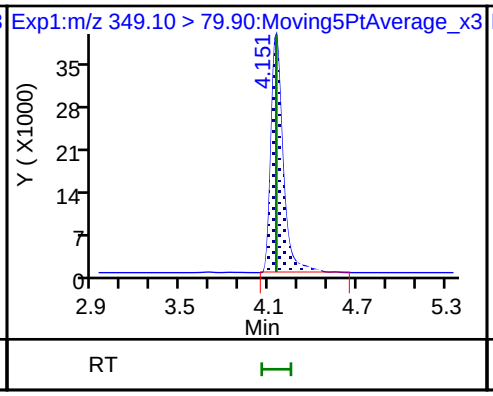
27 6:2FTS



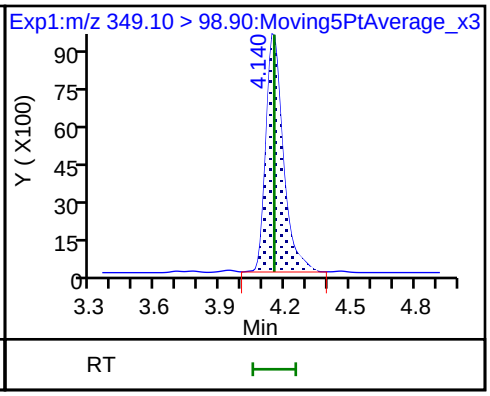
27 6:2FTS



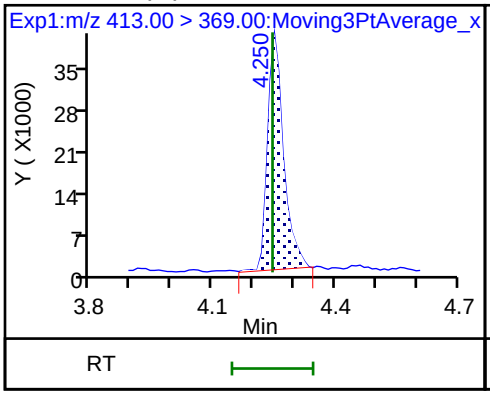
28 PFPeS



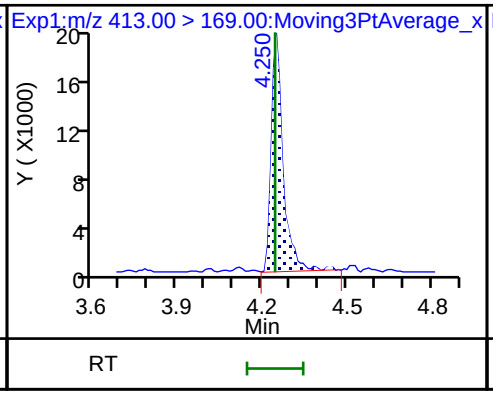
28 PFPeS



32 PFOA (M)



32 PFOA



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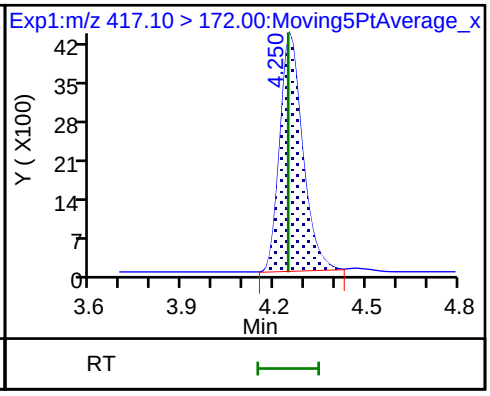
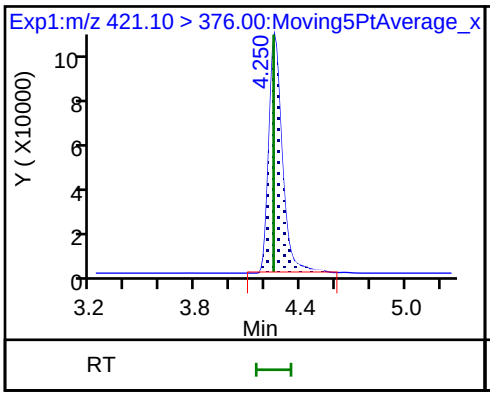
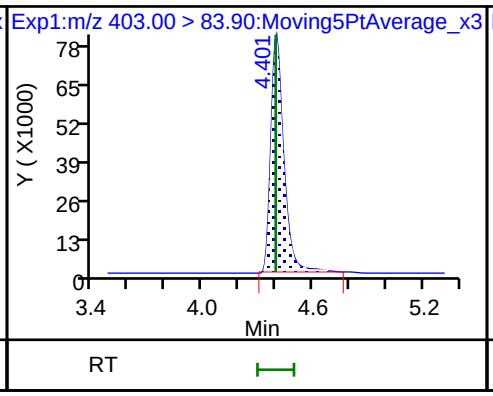


D 31 13C8 PFOA



* 35 18O2 PFHxS



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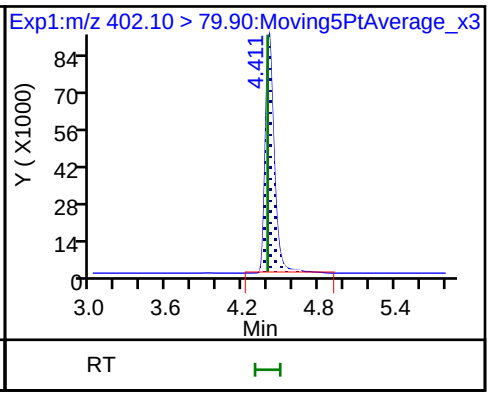

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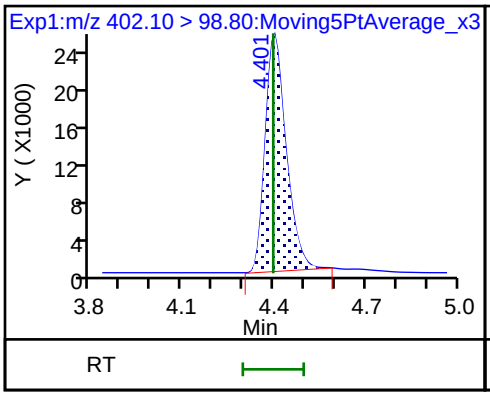

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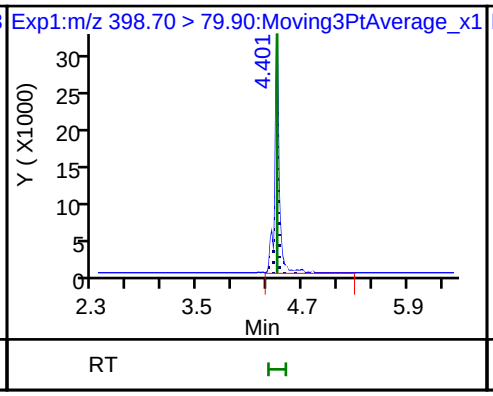
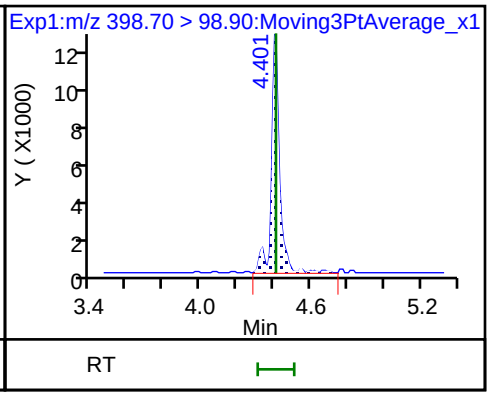


34 PFHxS



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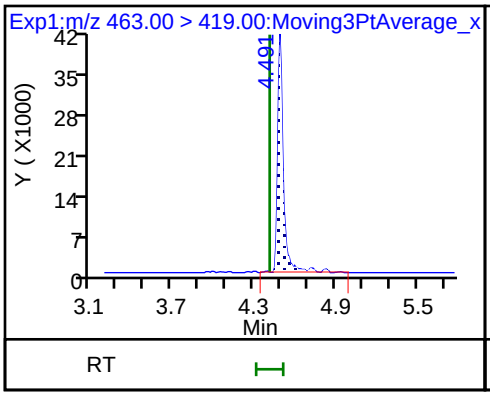

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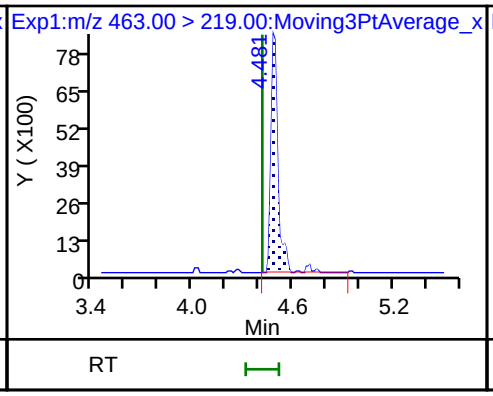

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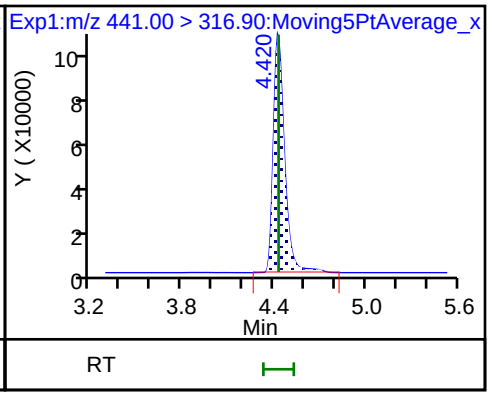

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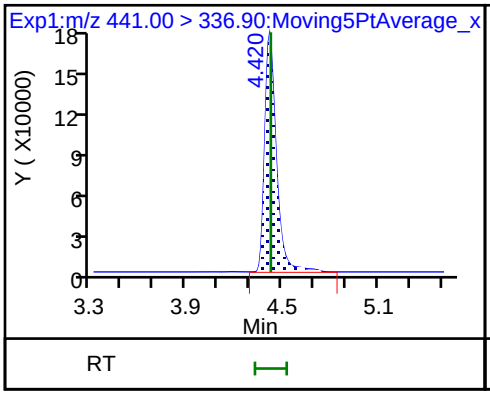

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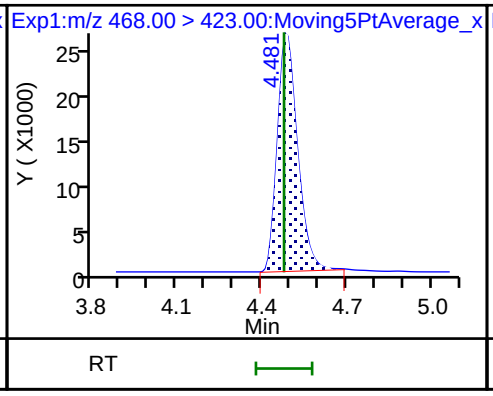

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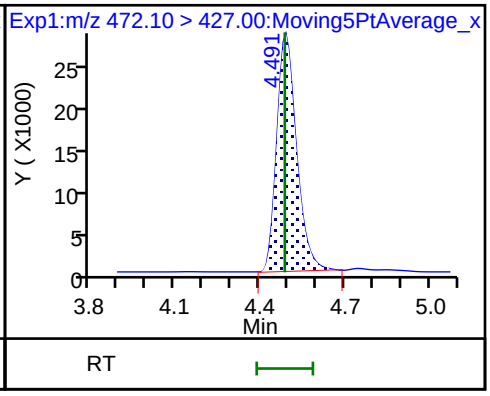

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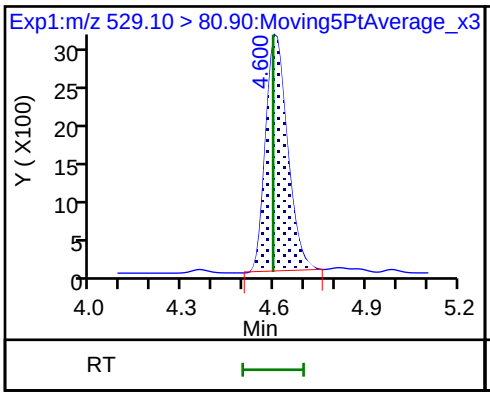

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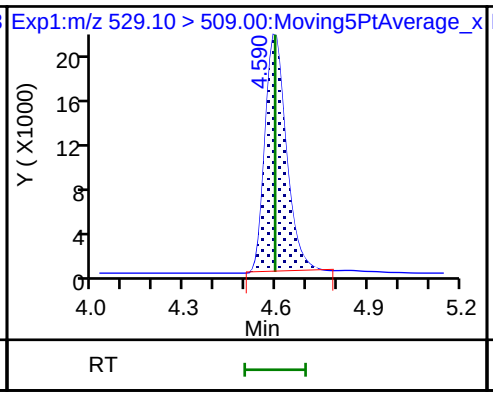

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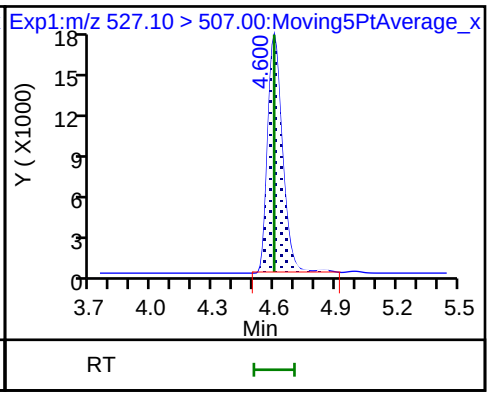

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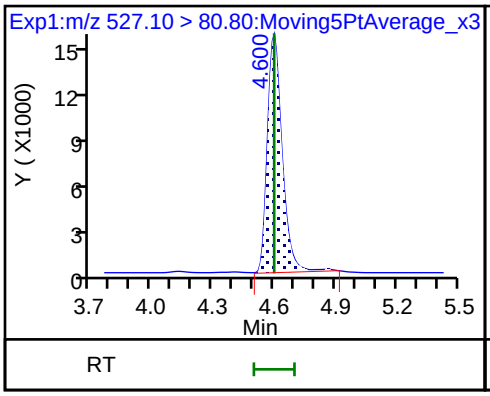

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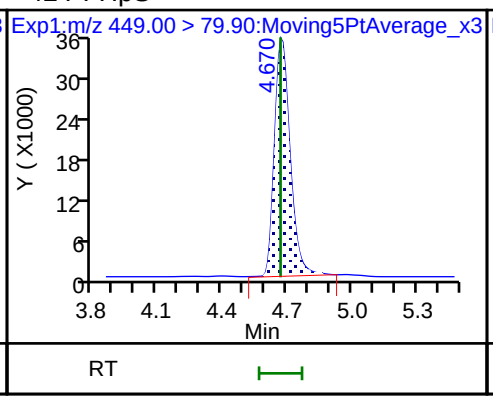

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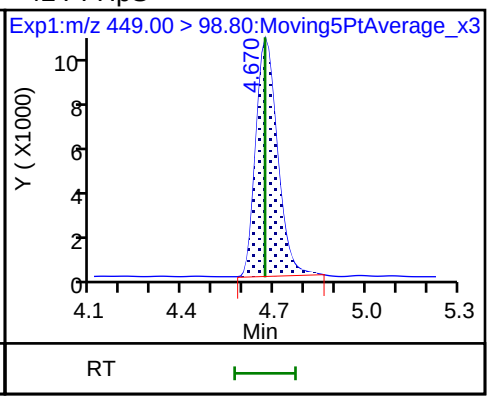
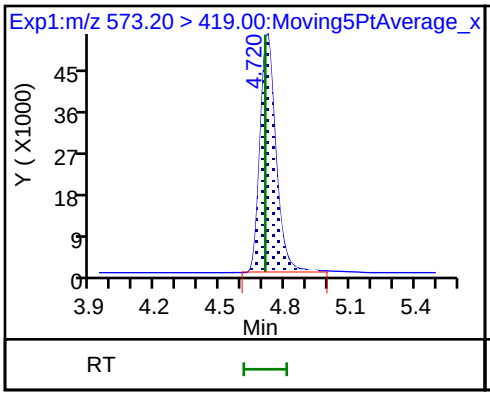


D 44 d3-NMeFOSAA



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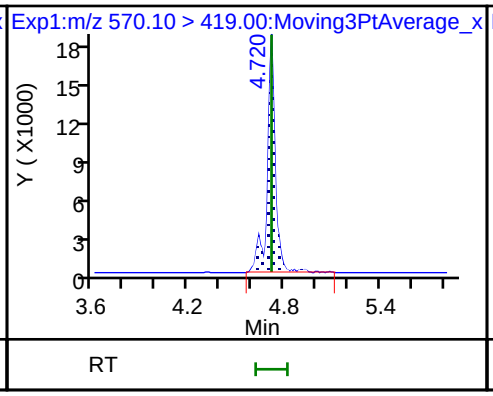

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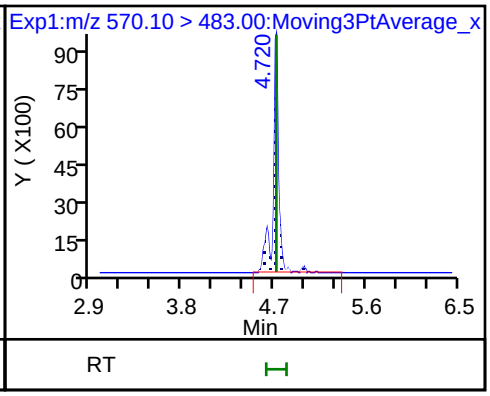
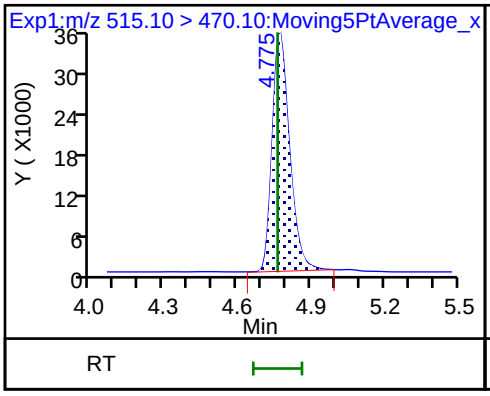


* 46 13C2 PFDA



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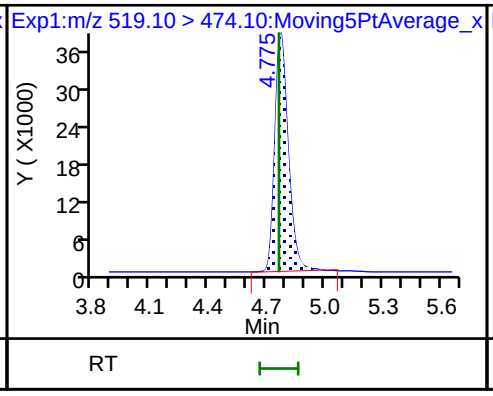

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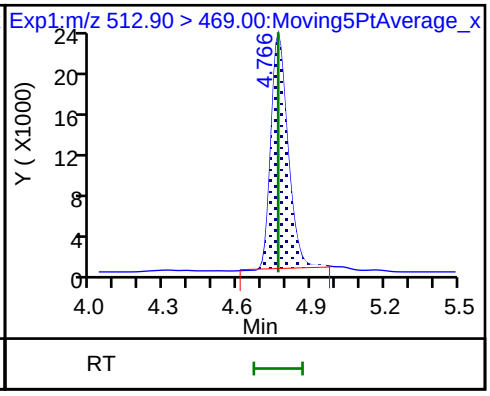

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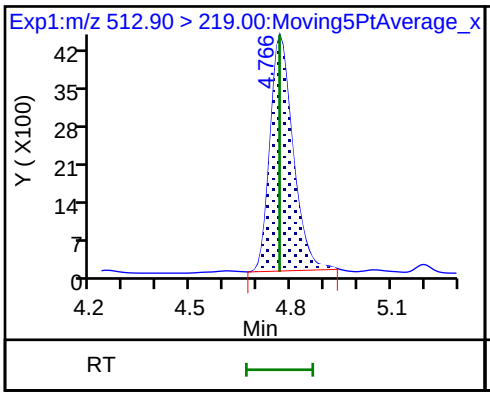

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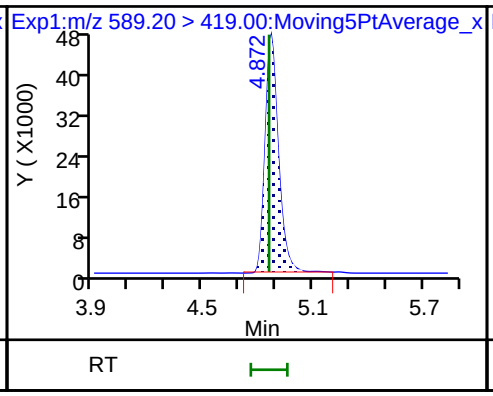

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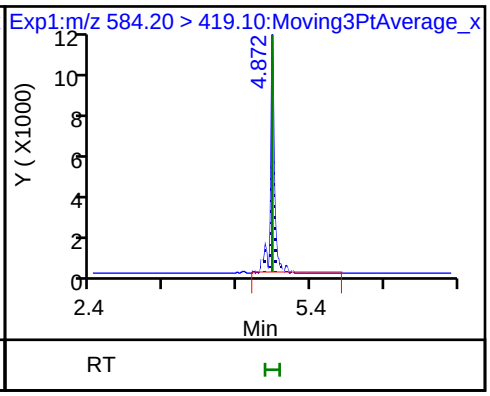

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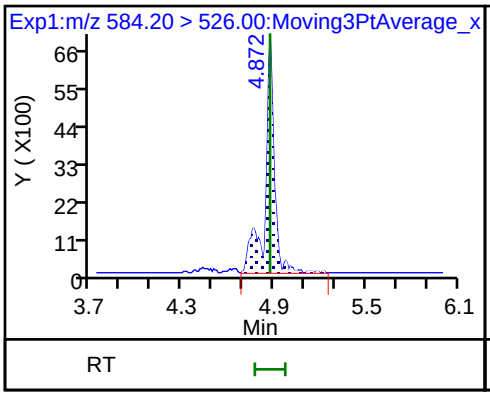

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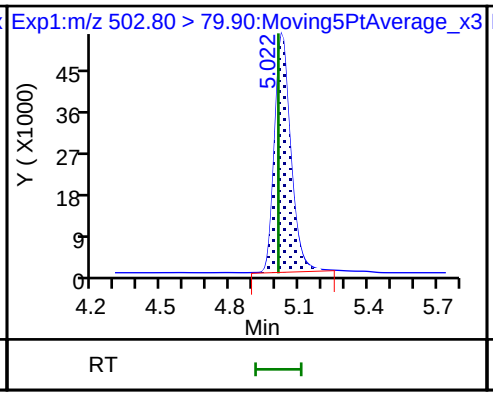

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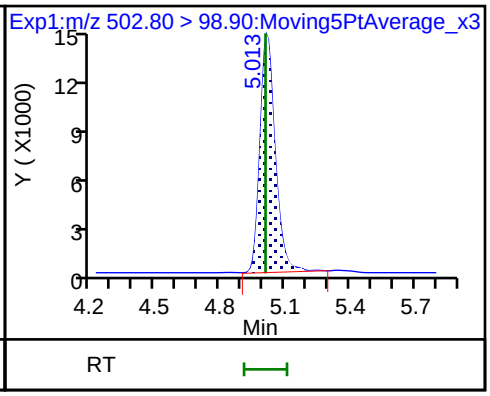

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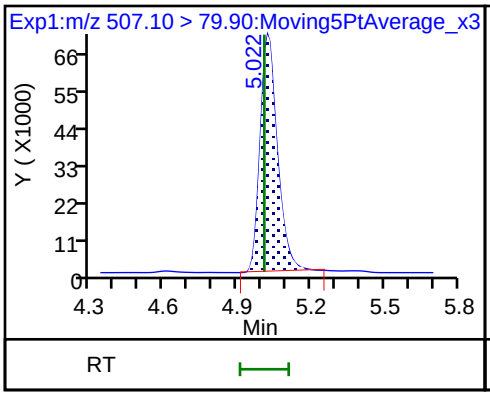

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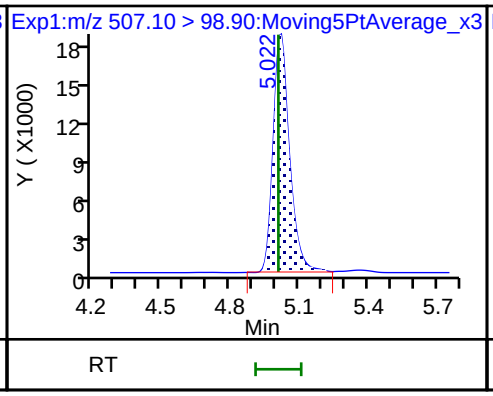

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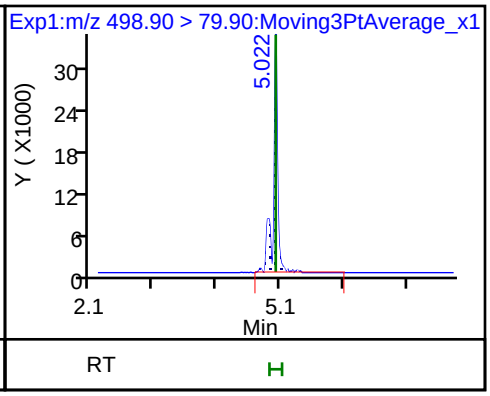

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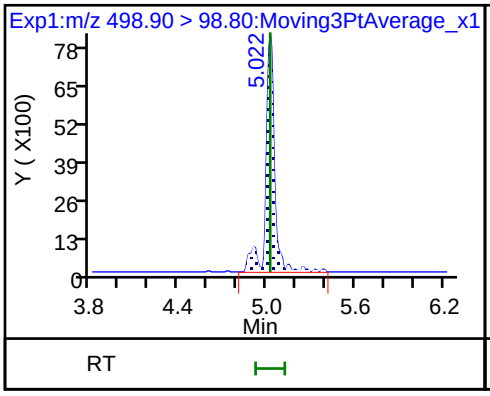

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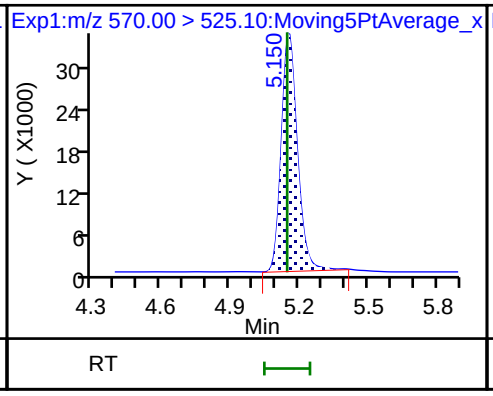

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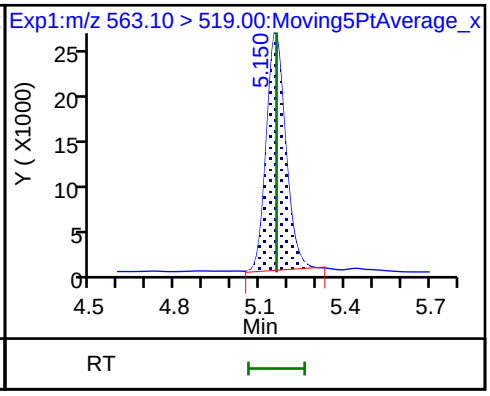

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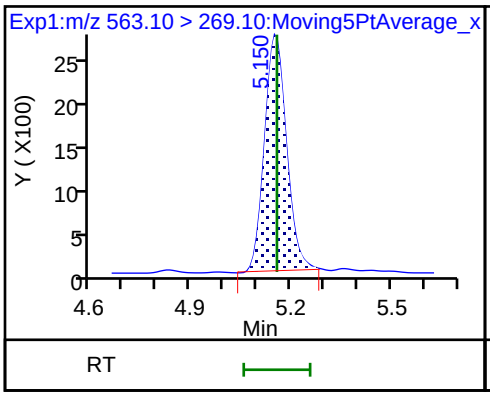

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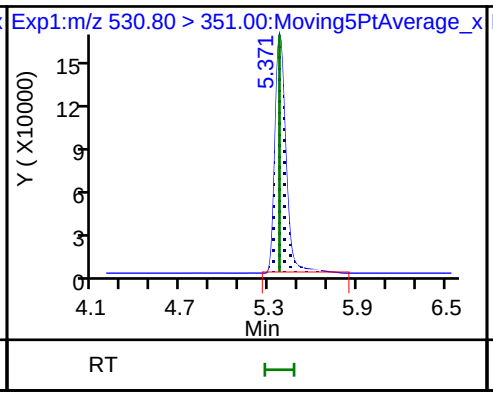

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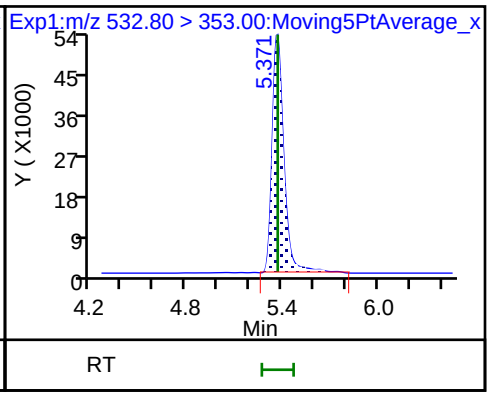

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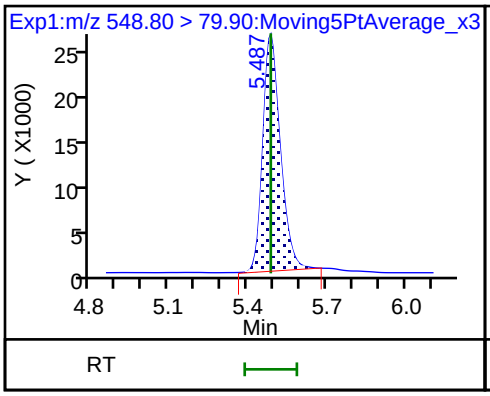

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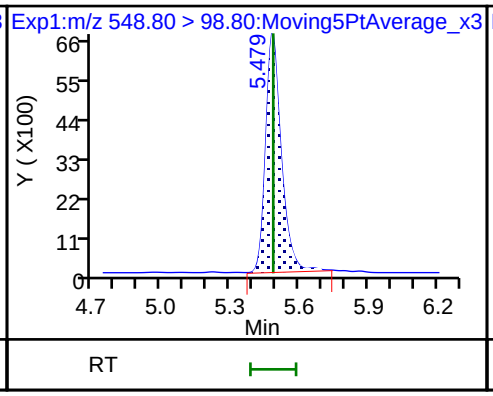

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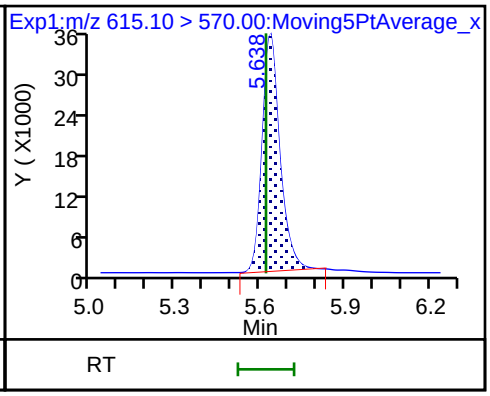

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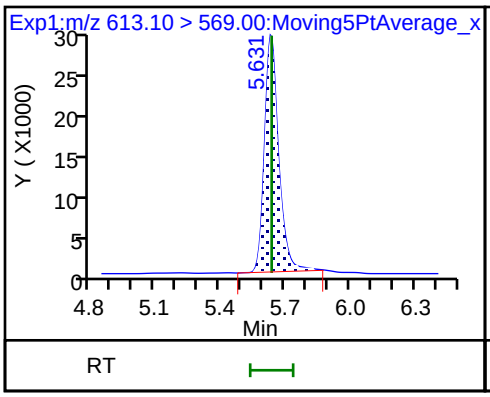

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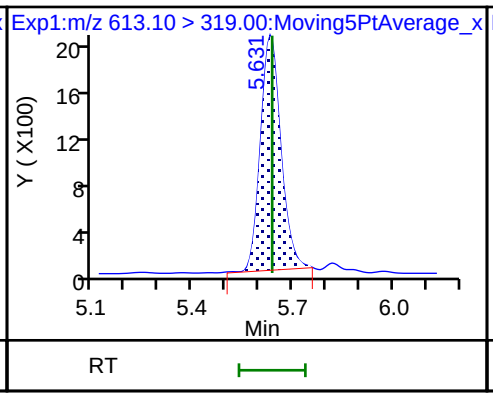

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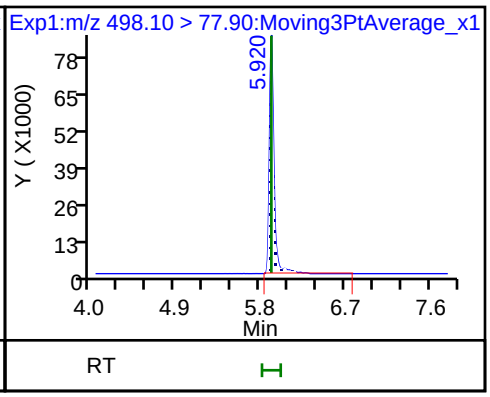

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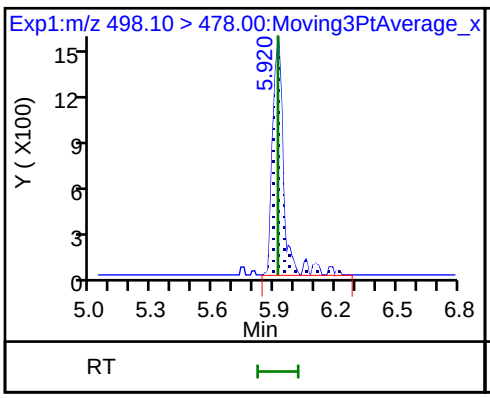

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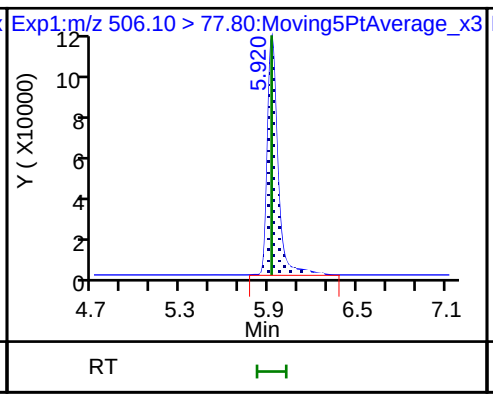

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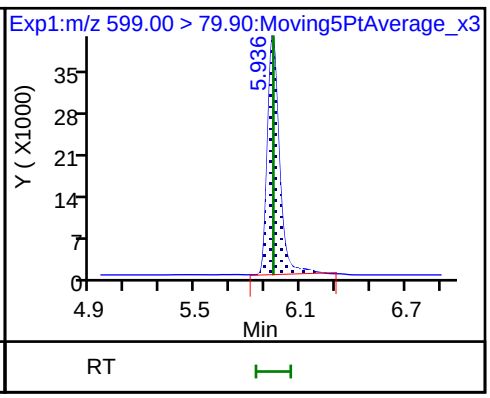

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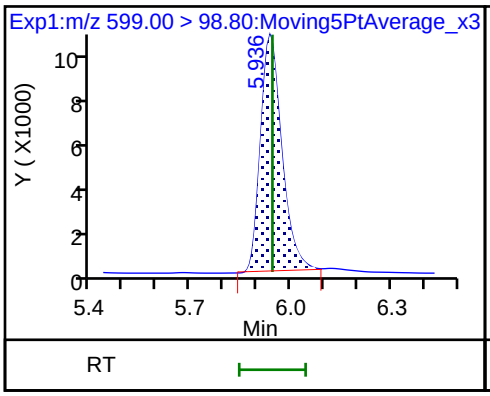

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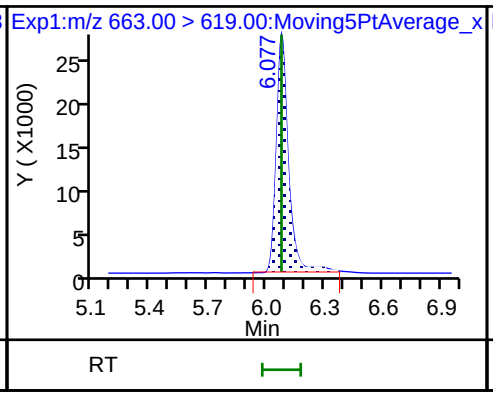

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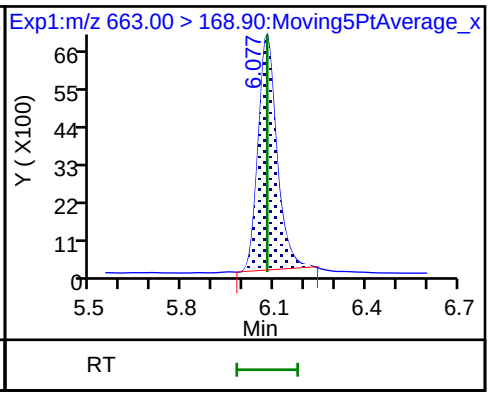

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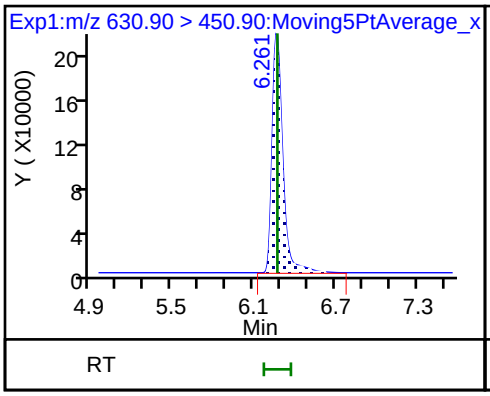

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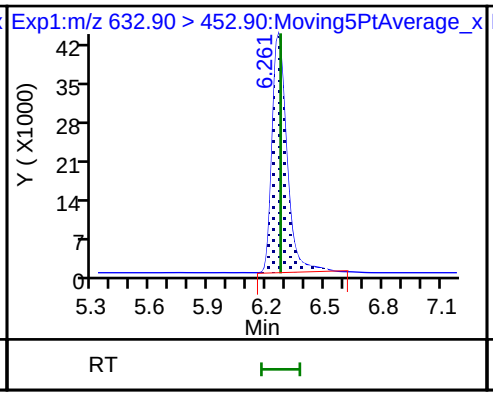

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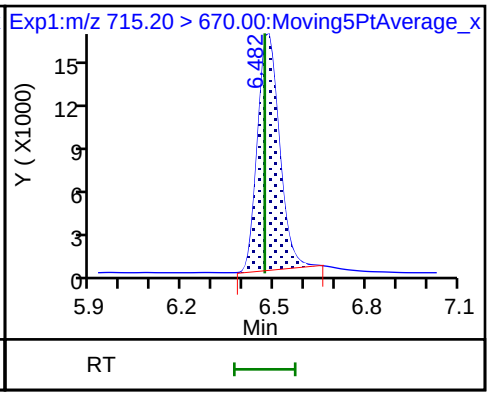

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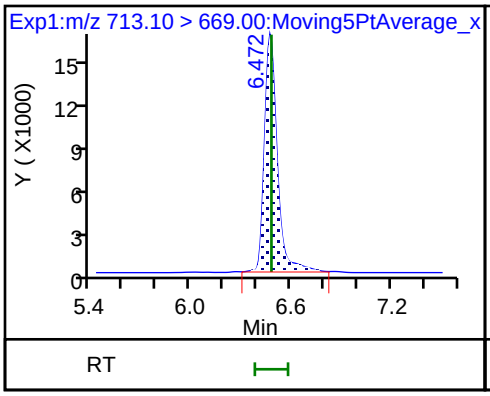

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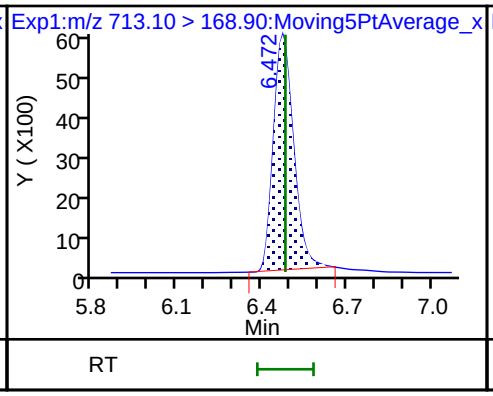
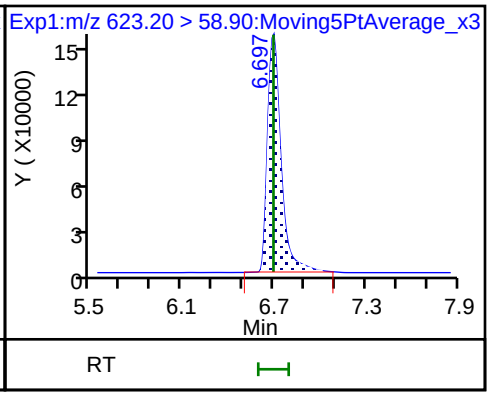
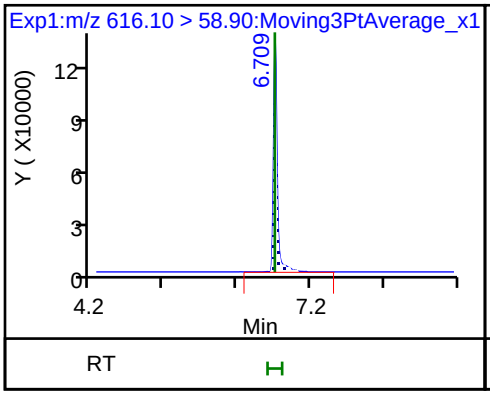


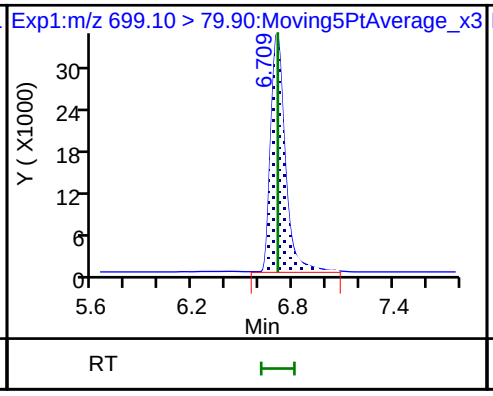
D 67 d7-N-Me-FOSE



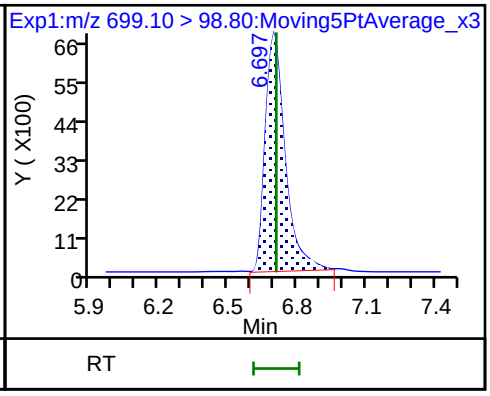
68 N-MeFOSE-M



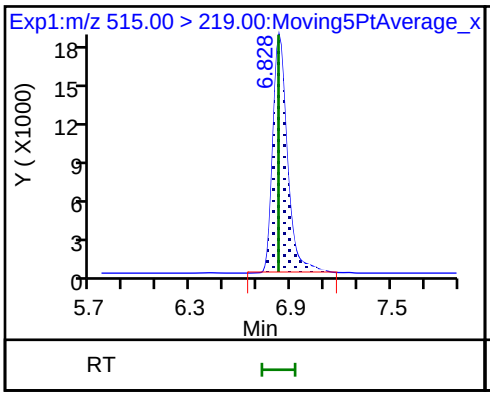
66 PFDoS



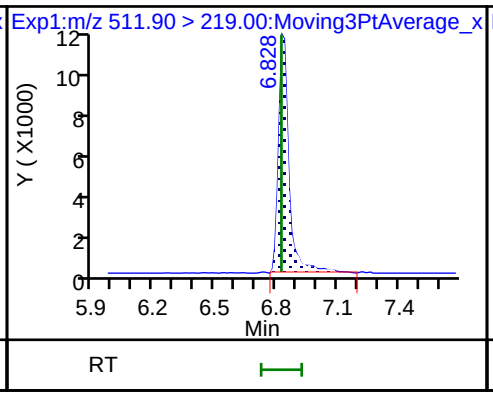
66 PFDoS



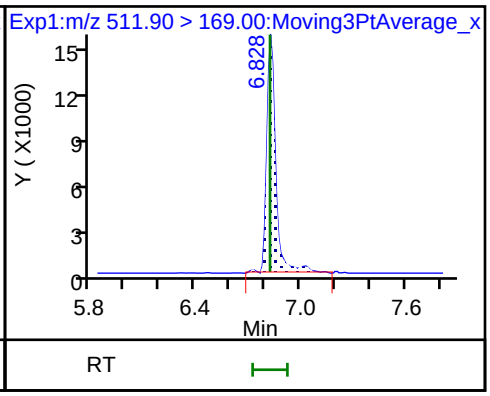
D 69 d3-NMePFOSA



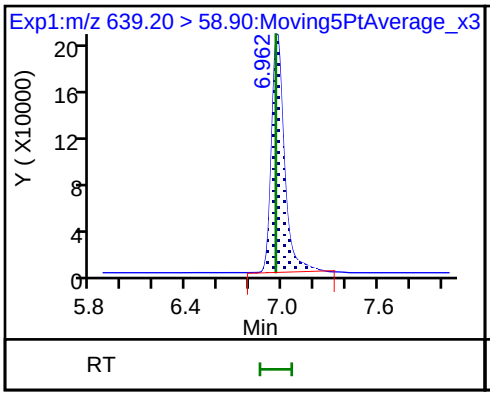
70 NMeFOSA



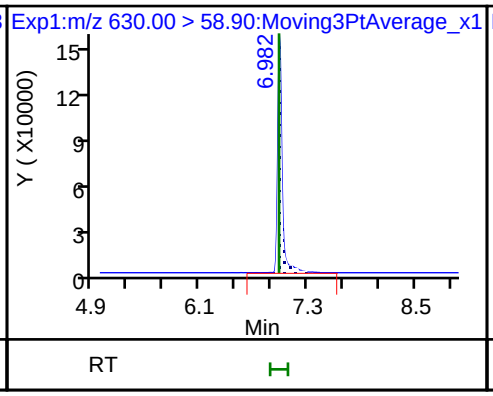
70 NMeFOSA



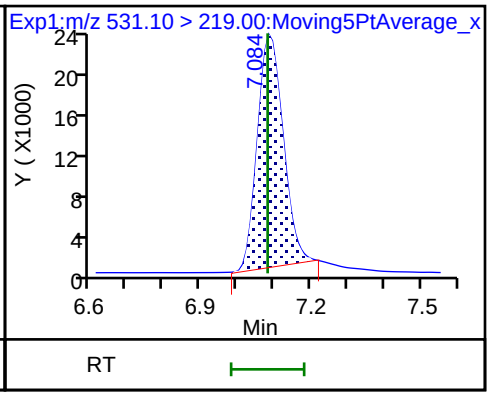
D 71 d9-N-EtFOSE



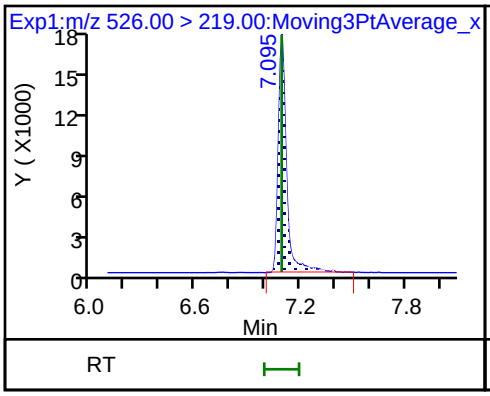
72 N-EtFOSE-M



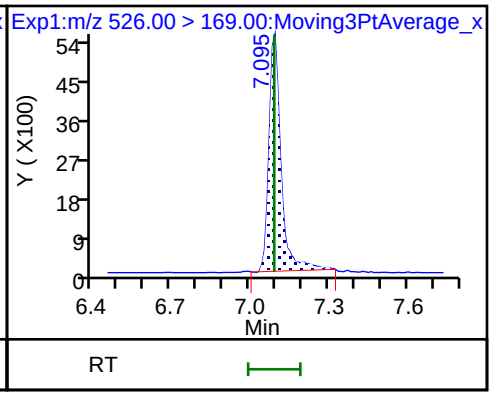
D 73 d5-NEtPFOSA



74 N-EtFOSA-M



74 N-EtFOSA-M



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

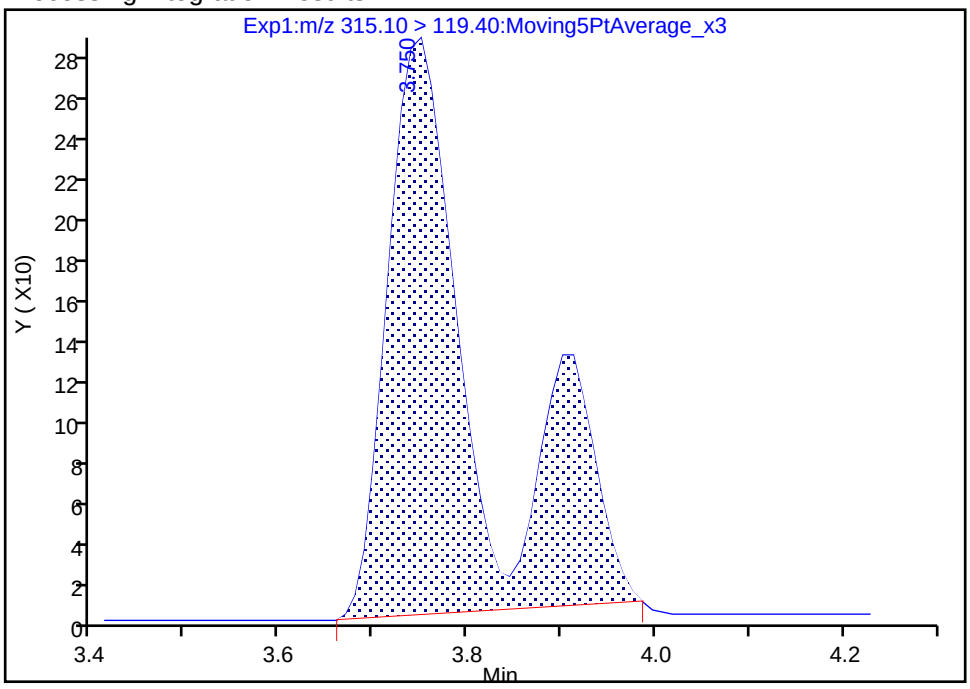
Data File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-03.d
Injection Date: 05-Aug-2023 09:40:44 Instrument ID: 30729
Lims ID: IC CAL 3
Client ID:
Operator ID: US19_USR_INS20263 ALS Bottle#: 20004 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: PFAS_30729_1633 Limit Group: LC - 1633 ICAL
Column: Detector EXP1

* 15 13C2 PFHxA, CAS: STL00993

Signal: 2

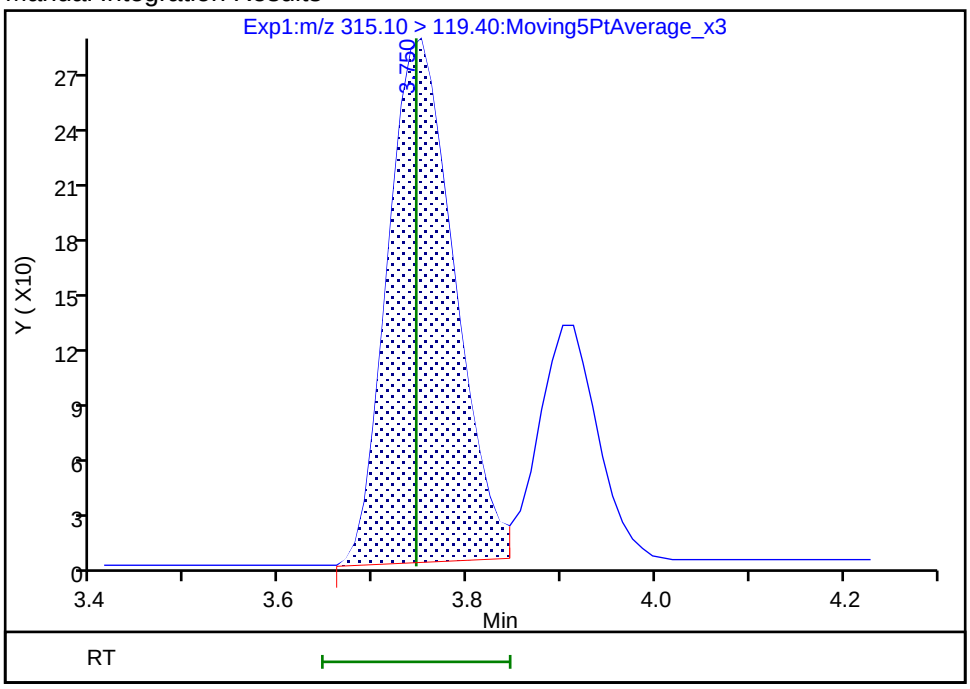
Processing Integration Results

RT: 3.75
Area: 1873
Amount: 2.500000
Amount Units: ng/ml



Manual Integration Results

RT: 3.75
Area: 1372
Amount: 2.500000
Amount Units: ng/ml



Reviewer: UCD3, 05-Aug-2023 11:11:08 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

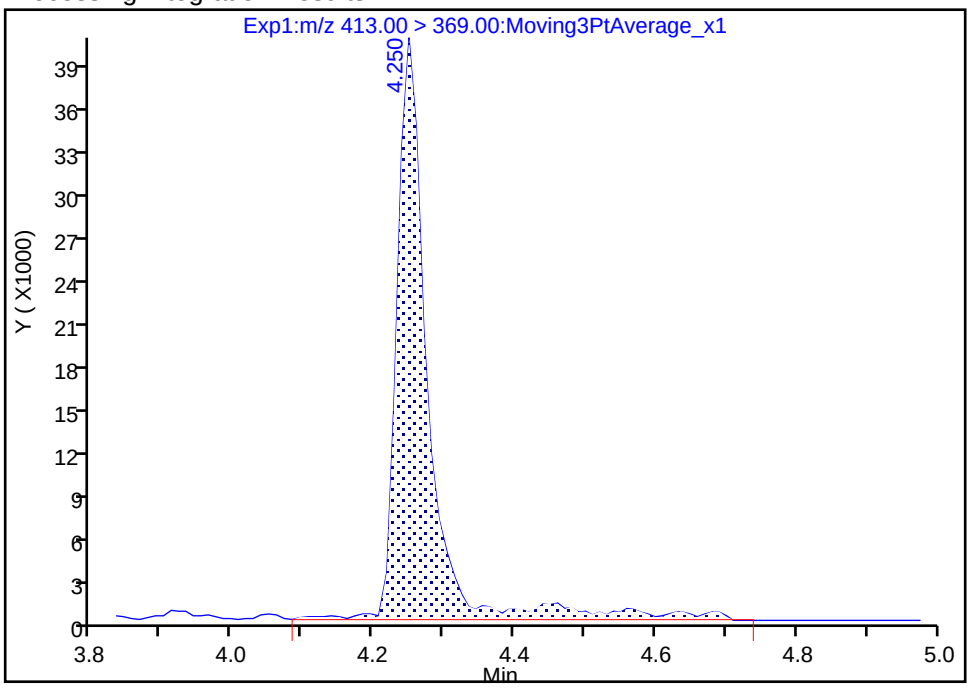
Data File:	\\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-03.d				
Injection Date:	05-Aug-2023 09:40:44	Instrument ID:	30729		
Lims ID:	IC CAL 3				
Client ID:					
Operator ID:	US19_USR_INS20263	ALS Bottle#:	20004	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

32 PFOA, CAS: 335-67-1

Signal: 1

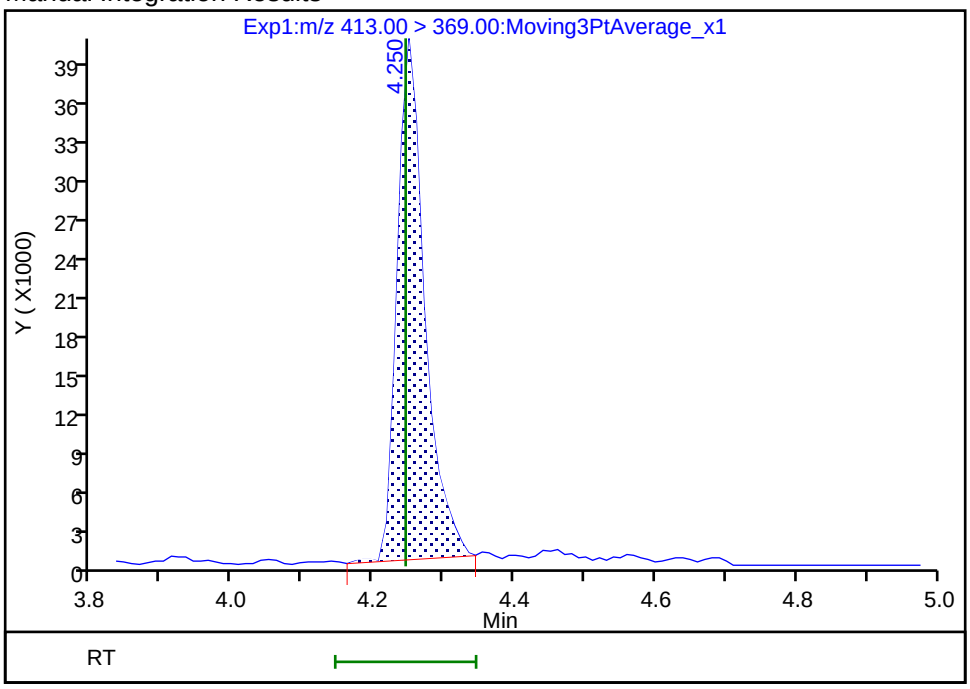
Processing Integration Results

RT: 4.25
Area: 129089
Amount: 1.195677
Amount Units: ng/ml



Manual Integration Results

RT: 4.25
Area: 109091
Amount: 1.035855
Amount Units: ng/ml



Reviewer: UCD3, 05-Aug-2023 11:11:28 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-04.d
Lims ID: IC CAL 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 05-Aug-2023 09:53:48 ALS Bottle#: 20005 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: IC CAL 4
Misc. Info.: Plate: 1 Rack: 1 410-0090708-004
Operator ID: US19_USR_INS20263 Instrument ID: 30729
Sublist: chrom-PFAS_30729_1633*sub4

Method: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\PFAS_30729_1633.m
Limit Group: LC - 1633 ICAL
Last Update: 05-Aug-2023 12:07:48 Calib Date: 05-Aug-2023 11:25:28
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-11.d

Column 1 : Det: EXP1
Process Host: CTX1666

First Level Reviewer: UCD3 Date: 05-Aug-2023 11:12:47
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4-PFBA										
216.80 > 171.90	2.940	2.927	0.013	1.000	1219163	9.78		97.8	71050	
* 3 13C3PFBA										
216.00 > 172.00	2.940	2.927	0.013		767710	5.00			1744	
1 PFBA										
212.80 > 168.90	2.933	2.939	-0.006	0.997	1027717	10.1		101	5236	
5 3:3 FTCA										
241.00 > 177.00	3.165	3.163	0.002	0.919	74136	12.2	Target=1.07	97.6	5195	
241.00 > 117.00	3.165	3.163	0.002	0.919	74297		1.00(0.54-1.61)	97.6	2041	
4 PFMPA										
229.00 > 84.90	3.165	3.163	0.002	0.919	637164	5.25		105	43126	
D 7 13C5 PFPeA										
268.30 > 223.00	3.445	3.439	0.006	0.919	335044	4.97		99.4	21016	
6 PFPA										
263.00 > 219.00	3.445	3.442	0.003	1.000	622592	5.13	Target=1147.20	103	16673	
263.00 > 68.90	3.445	3.442	0.003	1.000	528		1179.15(573.60-1720.80)	103	36.0	
8 PFMBA										
279.00 > 85.10	3.559	3.556	0.003	1.033	534014	5.48		110	33352	
D 10 13C2-4:2FTS										
329.10 > 80.90	3.639	3.632	0.007	0.827	64159	4.93	Target=0.30	105	2974	
329.10 > 309.00	3.628	3.632	-0.004	0.824	177932		0.36(0.15-0.45)	105	11127	
9 4:2FTS										
327.10 > 307.00	3.639	3.636	0.003	1.000	338234	9.23	Target=1.45	98.5	20405	
327.10 > 80.90	3.639	3.636	0.003	1.000	227943		1.48(0.72-2.17)	98.5	13597	
12 NFDHA										
295.00 > 201.00	3.730	3.728	0.002	0.994	58615	4.84	Target=2.02	96.7	3991	
295.00 > 84.90	3.719	3.728	-0.009	0.992	31094		1.89(1.01-3.03)	96.7	2075	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 14 13C5 PFHxA										
318.00 > 273.00	3.750	3.745	0.005	1.000	43250	2.64	Target=14.90	105	2828	
318.00 > 120.30	3.750	3.745	0.005	1.000	2117		20.43(7.45-22.34)	105	155	
* 15 13C2 PFHxA										RM
315.10 > 270.00	3.750	3.745	0.005		234583	2.50	Target=218.11		14800	R
315.10 > 119.40	3.730	3.745	-0.015		406		577.79(109.05-327.16)		33.7	M
13 PFHxA										
313.00 > 269.00	3.750	3.749	0.001	1.000	234808	2.50	Target=12.56	100.0	10983	
313.00 > 118.90	3.750	3.749	0.001	1.000	18410		12.75(6.28-18.83)	100.0	1198	
16 5:3 FTCA										
341.00 > 237.10	3.845	3.843	0.002	1.025	1641789	59.1	Target=2.80	94.5	98453	
341.00 > 217.00	3.845	3.843	0.002	1.025	564996		2.91(1.40-4.19)	94.5	34565	
D 18 13C3 PFBS										
302.10 > 79.90	3.856	3.850	0.006	0.876	419821	2.28	Target=6.66	98.0	26055	
302.10 > 98.90	3.856	3.850	0.006	0.876	58903		7.13(3.33-9.99)	98.0	3746	
17 PFBS										
298.70 > 79.90	3.856	3.854	0.002	1.000	242214	2.22	Target=3.12	100	11361	
298.70 > 98.80	3.856	3.854	0.002	1.000	74302		3.26(1.56-4.67)	100	3482	
D 20 13C3 HFPO-DA										
286.90 > 168.90	3.867	3.861	0.006	1.031	1098817	10.6	Target=27.88	106	66628	
286.90 > 184.90	3.867	3.861	0.006	1.031	36704		29.94(13.94-41.82)	106	2260	
19 HFPO-DA										
284.90 > 168.90	3.867	3.877	-0.010	1.000	711673	9.46	Target=18.47	94.6	2704	
284.90 > 184.90	3.867	3.877	-0.010	1.000	37386		19.04(9.23-27.70)	94.6	2372	
23 PFEESA										
314.80 > 134.90	4.008	4.006	0.002	1.069	2127665	4.29	Target=14.12	96.4	134674	
314.80 > 82.90	3.997	4.006	-0.009	1.066	150575		14.13(7.06-21.18)	96.4	4088	
D 25 13C4 PFHpA										
367.10 > 322.00	4.018	4.013	0.005	1.071	521019	2.65		106	31878	
24 PFHpA										
363.10 > 319.00	4.008	4.017	-0.009	0.997	444107	2.26	Target=3.63	90.3	16541	
363.10 > 169.00	4.008	4.017	-0.009	0.997	135280		3.28(1.81-5.44)	90.3	8433	
26 ADONA										
376.90 > 250.90	4.107	4.105	0.002	1.062	2021563	9.52	Target=12.35	101	90561	
376.90 > 84.80	4.095	4.105	-0.010	1.059	159406		12.68(6.17-18.52)	101	9697	
D 29 13C2-6:2FTS										
429.10 > 80.90	4.129	4.124	0.005	0.938	37264	5.55	Target=0.15	117	2148	
429.10 > 409.00	4.118	4.124	-0.006	0.936	183329		0.20(0.07-0.22)	117	10995	
27 6:2FTS										
427.10 > 407.00	4.129	4.127	0.002	1.000	282170	7.89	Target=1.66	83.1	16560	
427.10 > 80.90	4.118	4.127	-0.009	0.997	185456		1.52(0.83-2.50)	83.1	11115	
28 PFPeS										
349.10 > 79.90	4.151	4.149	0.002	0.941	455412	2.39	Target=3.80	102	27438	
349.10 > 98.90	4.151	4.149	0.002	0.941	139808		3.26(1.90-5.70)	102	8413	
32 PFOA										
413.00 > 369.00	4.250	4.245	0.005	1.000	280528	2.49	Target=2.19	99.6	340	
413.00 > 169.00	4.250	4.245	0.005	1.000	118588		2.37(1.09-3.28)	99.6	366	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 30 13C4 PFOA										
417.10 > 172.00	4.250	4.245	0.005		23952	2.50			1649	
D 31 13C8 PFOA										
421.10 > 376.00	4.250	4.245	0.005	1.000	569949	2.50		100	36564	
* 35 18O2 PFHxS										
403.00 > 83.90	4.401	4.396	0.005		419915	2.37			27839	
D 36 13C3 PFHxS										
402.10 > 79.90	4.410	4.396	0.014	1.002	458280	2.30	Target=3.87	96.9	30384	
402.10 > 98.80	4.401	4.396	0.005	1.000	126740		3.62(1.93-5.80)	96.9	8706	
34 PFHxS										
398.70 > 79.90	4.401	4.408	-0.007	0.998	235375	2.31	Target=3.41	101	1001	
398.70 > 98.90	4.401	4.408	-0.007	0.998	65742		3.58(1.70-5.11)	101	172	
39 PFNA										
463.00 > 419.00	4.491	4.415	0.076	1.000	228654	2.37	Target=4.66	94.7	612	
463.00 > 219.00	4.491	4.415	0.076	1.000	48803		4.69(2.33-7.00)	94.7	309	
33 7:3 FTCA										
441.00 > 316.90	4.429	4.427	0.002	1.181	1109780	56.3	Target=0.66	90.1	71598	
441.00 > 336.90	4.420	4.427	-0.007	1.178	1786730		0.62(0.33-1.00)	90.1	116648	
* 37 13C5 PFNA										
468.00 > 423.00	4.491	4.477	0.014		132548	1.25			6687	
D 38 13C9 PFNA										
472.10 > 427.00	4.491	4.487	0.004	1.000	143775	1.28		103	9601	
D 41 13C2-8:2FTS										
529.10 > 80.90	4.599	4.596	0.003	1.045	17438	4.86	Target=0.14	101	1141	
529.10 > 509.00	4.599	4.596	0.003	1.045	119058		0.15(0.07-0.21)	101	7926	
40 8:2FTS										
527.10 > 507.00	4.599	4.599	0.0	1.000	196080	9.61	Target=1.18	100	13176	
527.10 > 80.80	4.599	4.599	0.0	1.000	180119		1.09(0.59-1.77)	100	9243	
42 PFHpS										
449.00 > 79.90	4.670	4.669	0.001	0.930	370263	2.45	Target=3.61	103	14442	
449.00 > 98.80	4.670	4.669	0.001	0.930	96836		3.82(1.80-5.41)	103	4755	
D 44 d3-NMeFOSAA										
573.20 > 419.00	4.720	4.707	0.013	0.940	282025	5.31		106	18795	
43 NMeFOSAA										
570.10 > 419.00	4.720	4.719	0.001	1.000	126051	2.38	Target=1.96	95.4	38181	
570.10 > 483.00	4.710	4.719	-0.009	0.998	74238		1.70(0.98-2.93)	95.4	129	
* 46 13C2 PFDA										
515.10 > 470.10	4.775	4.763	0.012		188571	1.25			12742	
D 47 13C6 PFDA										
519.10 > 474.10	4.775	4.763	0.012	1.000	202324	1.33		106	13617	
45 PFDA										
512.90 > 469.00	4.766	4.765	0.001	0.998	246930	2.15	Target=6.39	85.8	7301	
512.90 > 219.00	4.766	4.765	0.001	0.998	46756		5.28(3.20-9.59)	85.8	3209	
D 49 d5-NEtFOSAA										
589.20 > 419.00	4.872	4.860	0.012	0.970	263715	5.33		107	17763	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
48 NEtFOSAA										
584.20 > 419.10	4.881	4.871	0.010	1.002	115735	2.93	Target=1.68	117	361	
584.20 > 526.00	4.872	4.871	0.001	1.000	58775		1.97(0.84-2.52)	117	194	
* 52 13C4 PFOS										
502.80 > 79.90	5.021	5.009	0.012		255888	2.40	Target=3.81		16790	
502.80 > 98.90	5.012	5.009	0.003		70234		3.64(1.91-5.72)		4816	
D 51 13C8 PFOS										
507.10 > 79.90	5.021	5.009	0.012	1.000	358602	2.36	Target=4.02	98.4	11845	
507.10 > 98.90	5.012	5.009	0.003	0.998	91524		3.92(2.01-6.03)	98.4	6125	
50 PFOS										
498.90 > 79.90	5.021	5.021	0.0	1.000	327950	2.38	Target=4.56	102	2305	
498.90 > 98.80	5.021	5.021	0.0	1.000	72751		4.51(2.28-6.83)	102	18114	
D 54 13C7 PFUnA										
570.00 > 525.10	5.158	5.147	0.011	1.080	174552	1.25		99.8	8924	
53 PFUnA										
563.10 > 519.00	5.158	5.158	0.0	1.000	289376	2.34	Target=11.35	93.7	9925	
563.10 > 269.10	5.150	5.158	-0.008	0.998	27993		10.34(5.67-17.02)	93.7	1978	
55 9ClFOS										
530.80 > 351.00	5.371	5.371	0.0	1.389	1802302	9.21	Target=3.22	98.5	114406	
532.80 > 353.00	5.371	5.371	0.0	1.389	564833		3.19(1.61-4.83)	98.5	36208	
56 PFNS										
548.80 > 79.90	5.486	5.486	0.0	1.093	251821	2.48	Target=4.35	103	17014	
548.80 > 98.80	5.479	5.486	-0.007	1.091	58455		4.31(2.18-6.53)	103	3153	
D 58 PFDoDA										
615.10 > 570.00	5.637	5.620	0.017	1.181	147913	1.19		95.3	8075	
57 PFDoA										
613.10 > 569.00	5.631	5.637	-0.006	0.999	294155	2.63	Target=16.83	105	15937	
613.10 > 319.00	5.631	5.637	-0.006	0.999	17320		16.98(8.42-25.25)	105	1292	
60 PFOSA										
498.10 > 77.90	5.920	5.917	0.003	1.000	608724	2.49	Target=57.83	99.7	11738	
498.10 > 478.00	5.912	5.917	-0.005	0.999	9439		64.49(28.91-86.74)	99.7	95.9	
D 59 13C8 FOSA										
506.10 > 77.80	5.920	5.917	0.003	1.179	591898	2.65		106	40208	
61 PFDS										
599.00 > 79.90	5.936	5.944	-0.008	1.182	417454	2.62	Target=4.33	108	28812	
599.00 > 98.80	5.936	5.944	-0.008	1.182	92284		4.52(2.16-6.49)	108	5168	
62 PFTrDA										
663.00 > 619.00	6.077	6.076	0.001	0.939	247267	2.67	Target=3.74	107	13957	
663.00 > 168.90	6.077	6.076	0.001	0.939	63351		3.90(1.87-5.60)	107	4927	
63 11ClFOS										
630.90 > 450.90	6.263	6.272	-0.009	1.619	2504942	9.57	Target=5.39	101	154787	
632.90 > 452.90	6.263	6.272	-0.009	1.619	466595		5.37(2.70-8.09)	101	28495	
D 65 13C2 PFTeDA										
715.20 > 670.00	6.474	6.468	0.006	1.356	83405	1.19		95.5	5559	
64 PFTeDA										
713.10 > 669.00	6.474	6.482	-0.008	1.000	200461	2.63	Target=3.33	105	12600	
713.10 > 168.90	6.474	6.482	-0.008	1.000	55303		3.62(1.66-4.99)	105	3638	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 67 d7-N-Me-FOSE										
623.20 > 58.90	6.691	6.694	-0.003	1.332	963879	26.3		105	39320	
68 N-MeFOSE-M										
616.10 > 58.90	6.715	6.706	0.009	1.004	1056350	24.6		98.6	7997	
66 PFDoS										
699.10 > 79.90	6.703	6.708	-0.005	1.335	428372	2.57	Target=4.86	106	23669	
699.10 > 98.80	6.691	6.708	-0.017	1.332	88618		4.83(2.43-7.28)	106	4906	
D 69 d3-NMePFOSA										
515.00 > 219.00	6.833	6.825	0.008	1.361	113584	2.60		104	6312	
70 NMeFOSA										
511.90 > 219.00	6.833	6.825	0.008	1.000	90583	2.51	Target=0.79	100	1277	
511.90 > 169.00	6.833	6.825	0.008	1.000	117490		0.77(0.40-1.18)	100	1571	
D 71 d9-N-EtFOSE										
639.20 > 58.90	6.966	6.959	0.007	1.387	1175845	26.1		104	36072	
72 N-EtFOSE-M										
630.00 > 58.90	6.986	6.979	0.007	1.003	1085574	24.5		98.2	12198	
D 73 d5-NEtPFOSA										
531.10 > 219.00	7.088	7.081	0.007	1.412	126276	2.69		108	7954	
74 N-EtFOSA-M										
526.00 > 219.00	7.088	7.092	-0.004	1.000	117504	2.42	Target=3.02	96.6	1935	
526.00 > 169.00	7.088	7.092	-0.004	1.000	41321		2.84(1.51-4.53)	96.6	909	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Reagents:

PFC_STD4_1633_00012 Amount Added: 1.00 Units: mL

Report Date: 05-Aug-2023 12:07:54 Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-04.d

Injection Date: 05-Aug-2023 09:53:48 Instrument ID: 30729

Lims ID: IC CAL 4

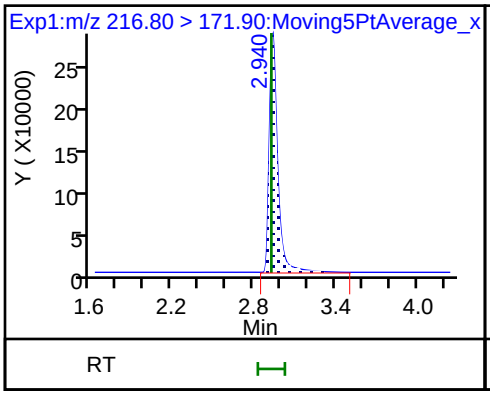
Client ID:

Operator ID: US19_USR_INS20263 ALS Bottle#: 20005 Worklist Smp#: 4

Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: PFAS_30729_1633 Limit Group: LC - 1633 ICAL

D 2 13C4-PFBA



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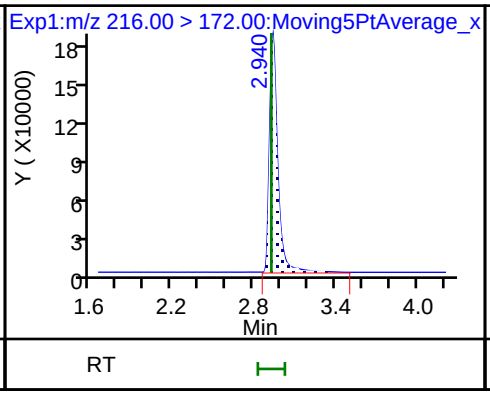

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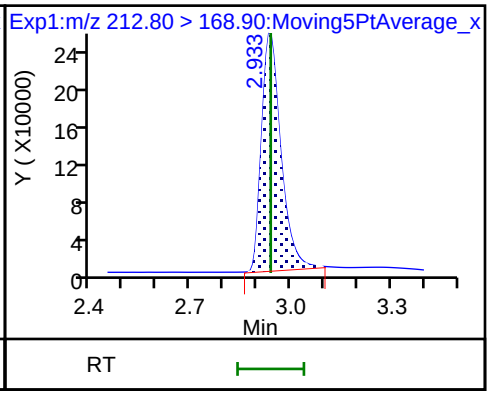

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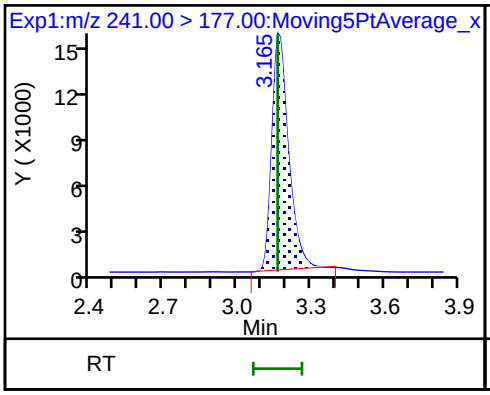

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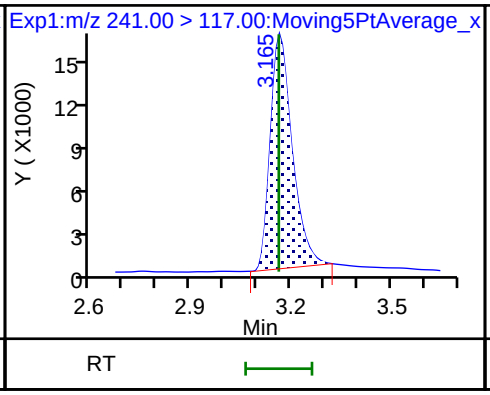

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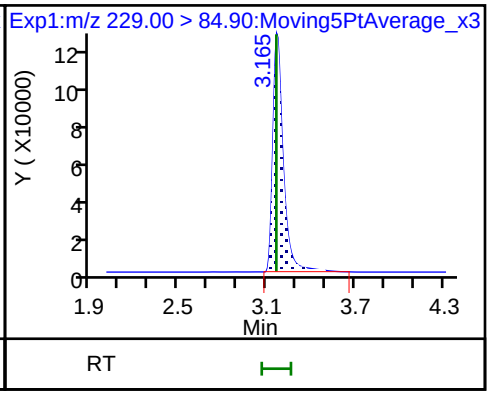

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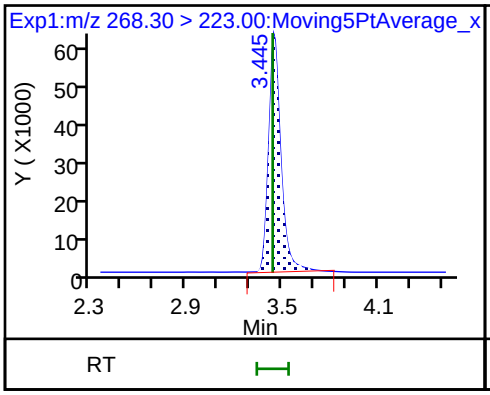

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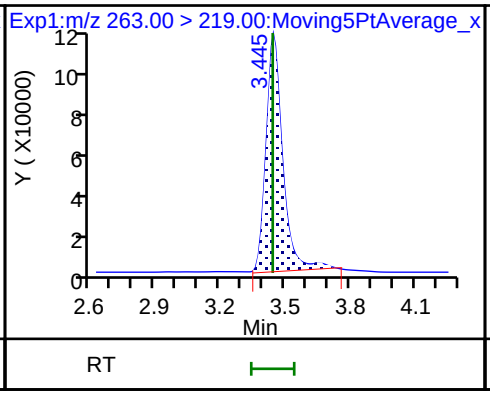

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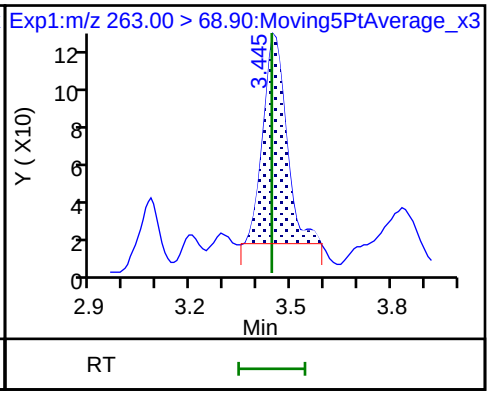

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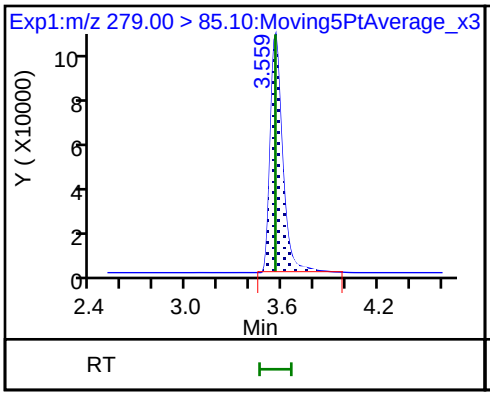

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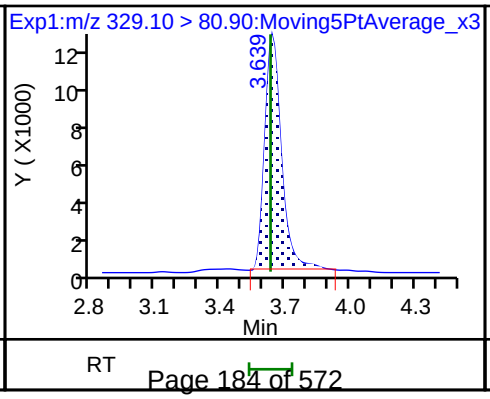

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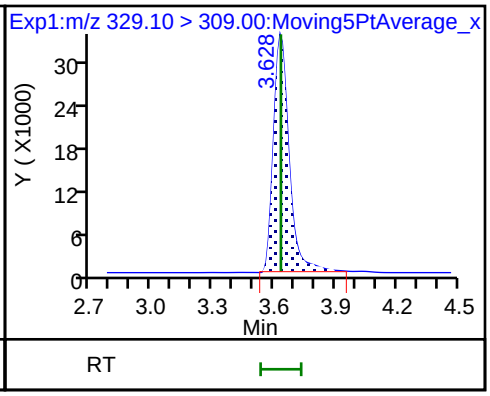

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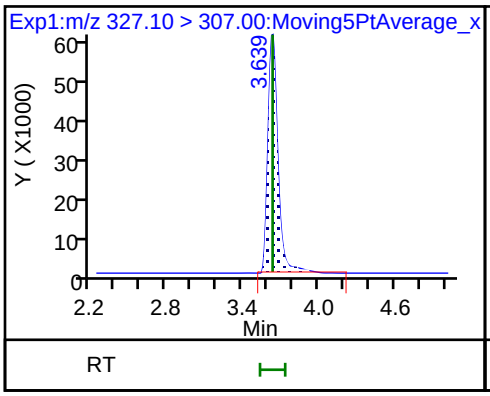

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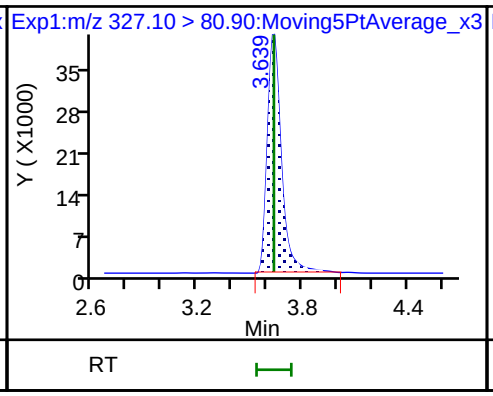

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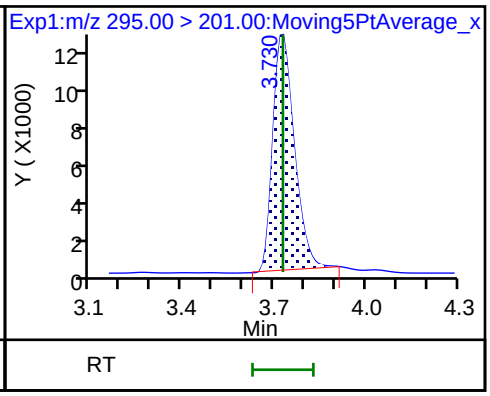

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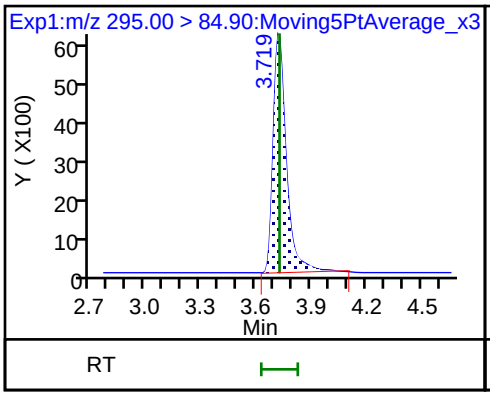

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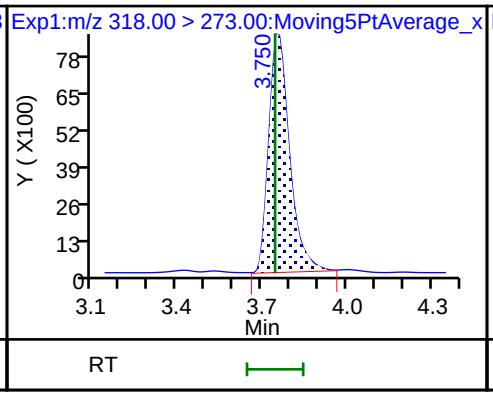

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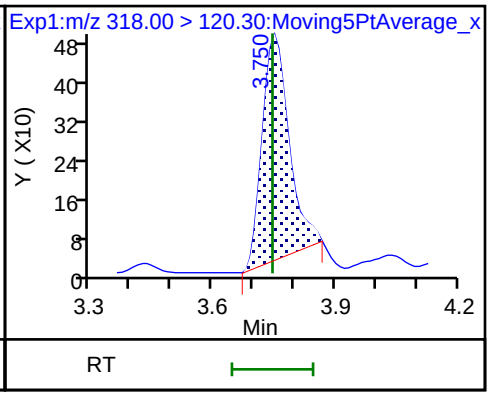

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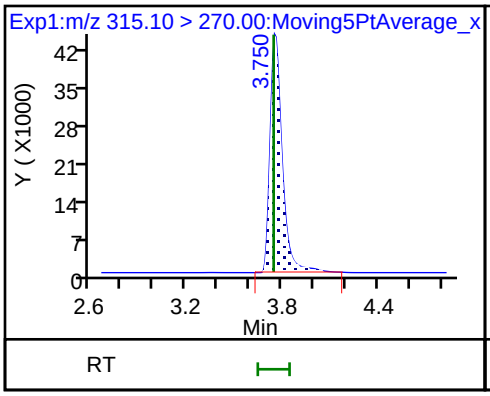

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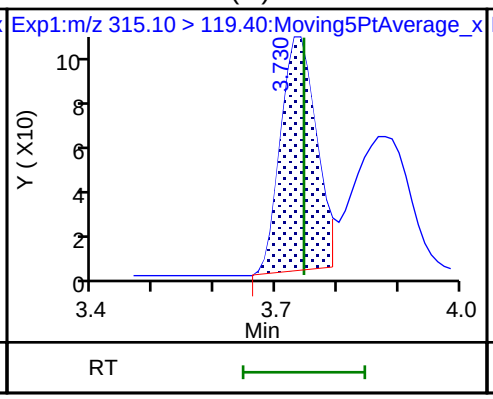

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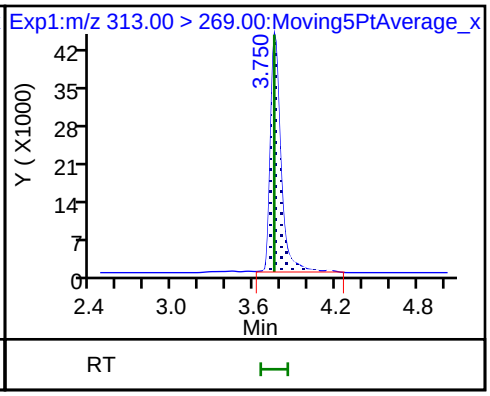

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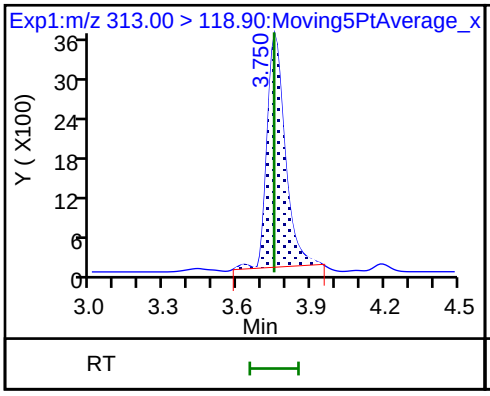

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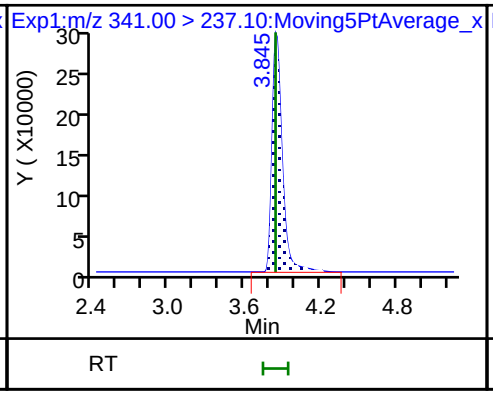

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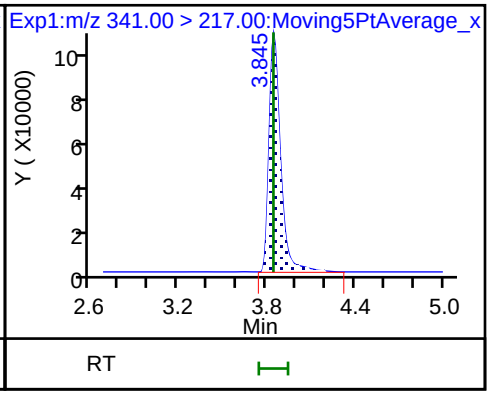

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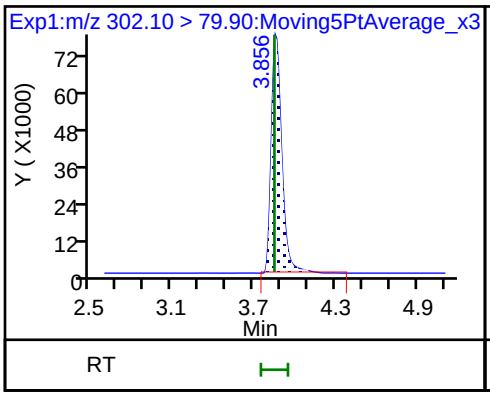

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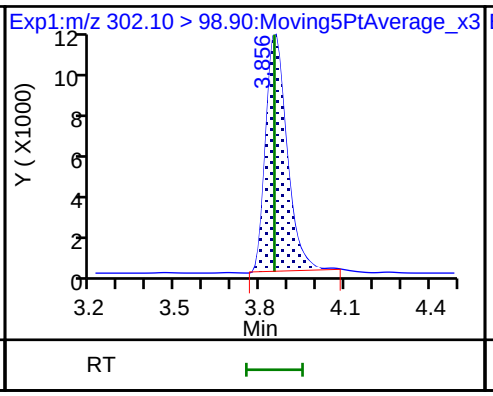

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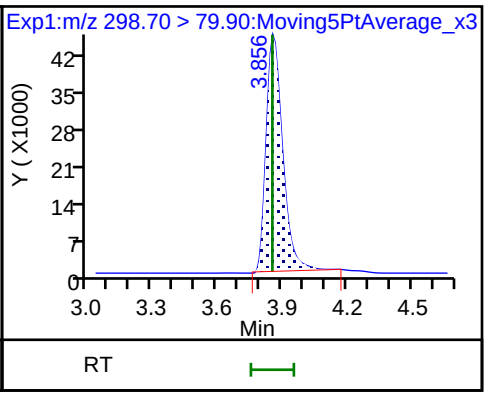

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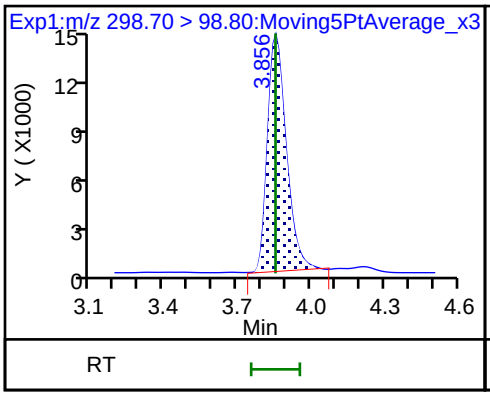

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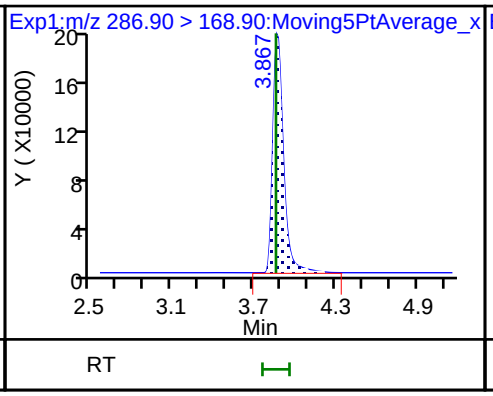

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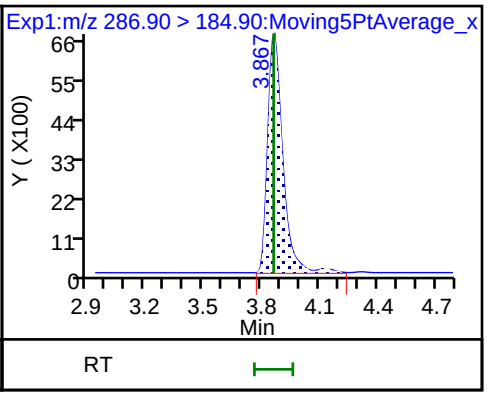

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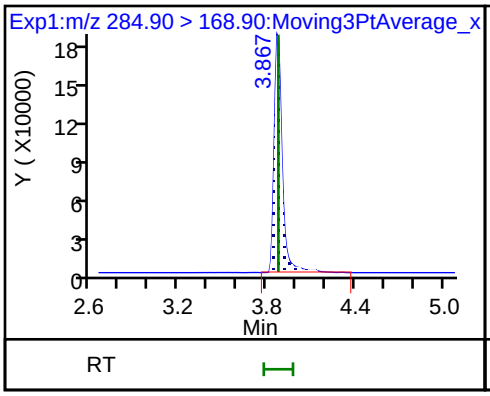

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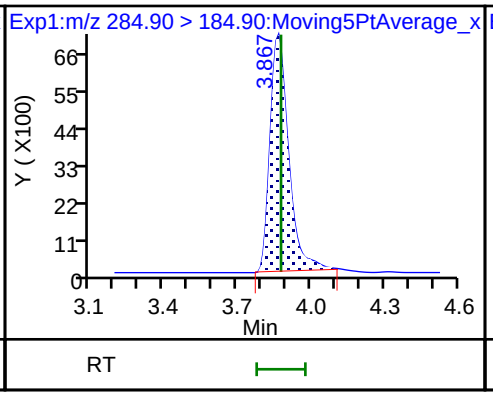

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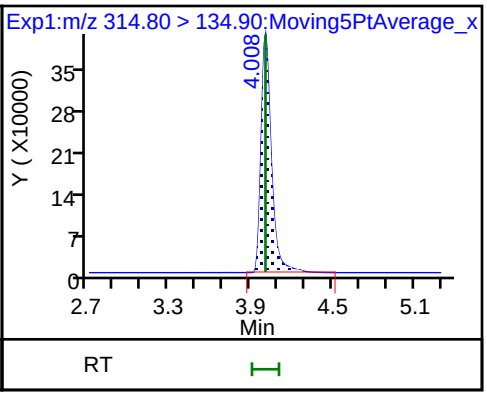

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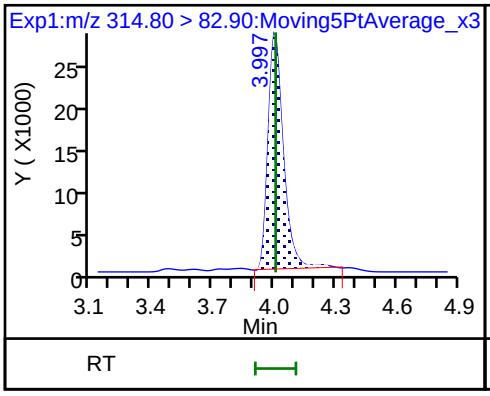

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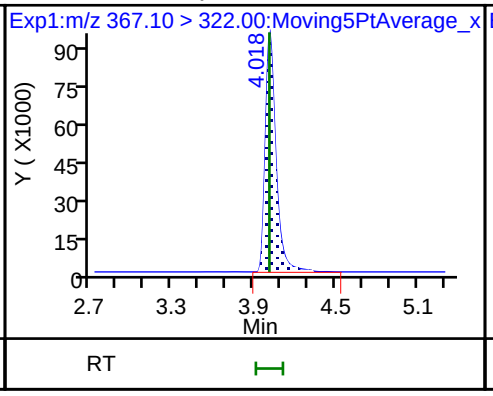

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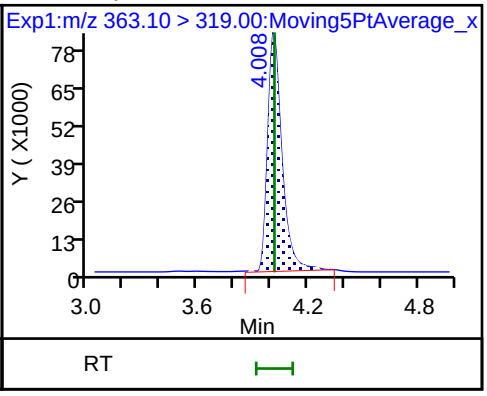

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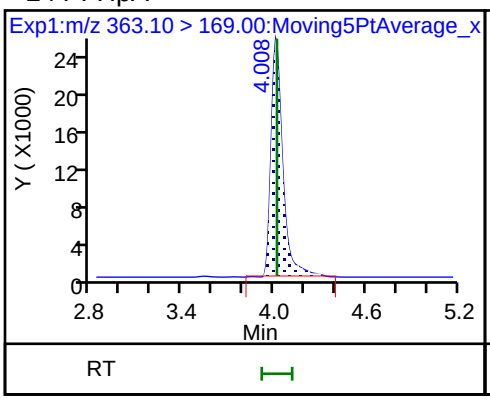

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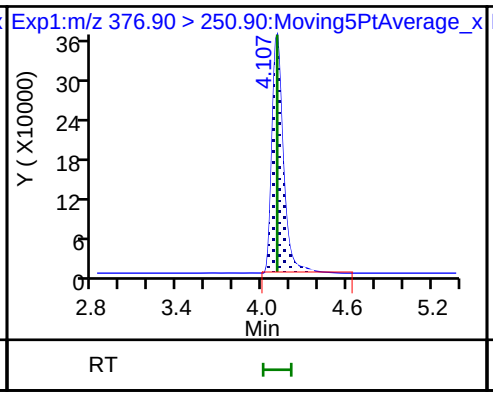

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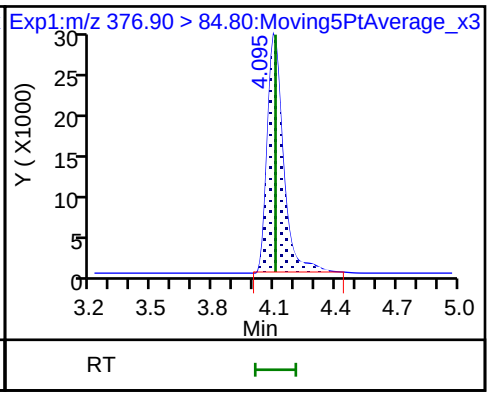

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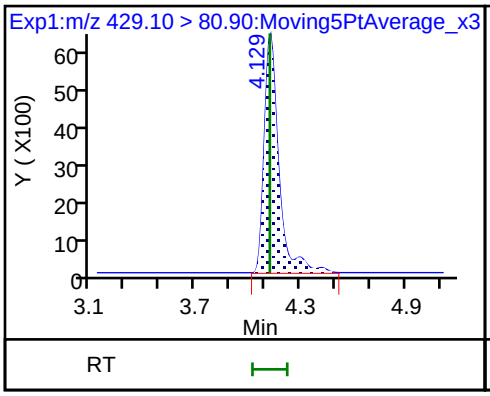

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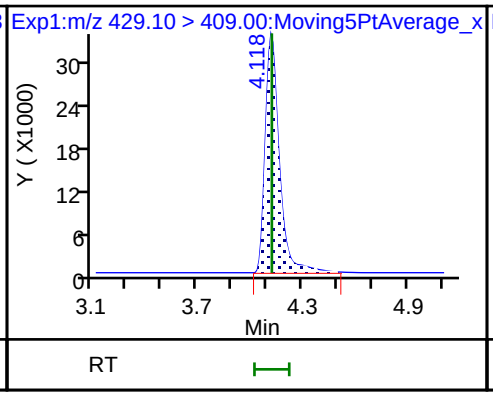
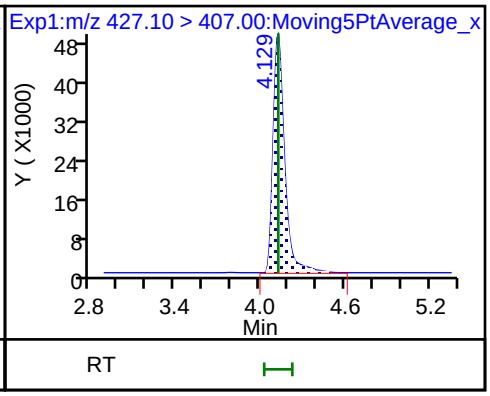
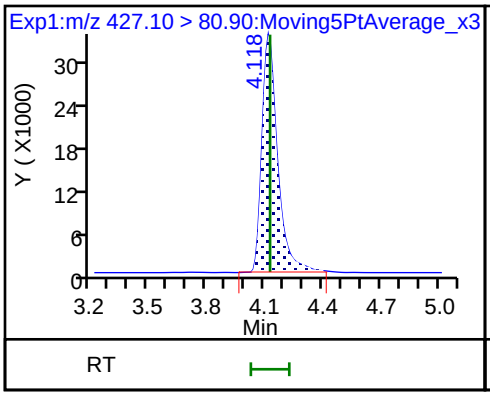


27 6:2FTS



27 6:2FTS



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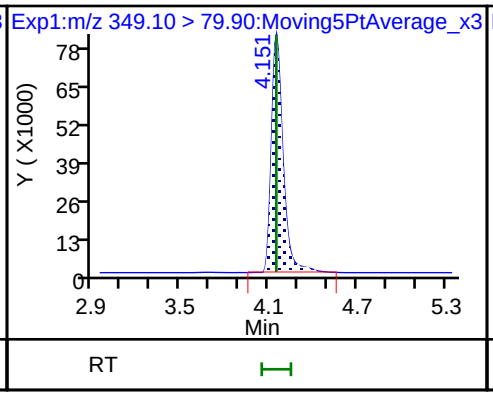

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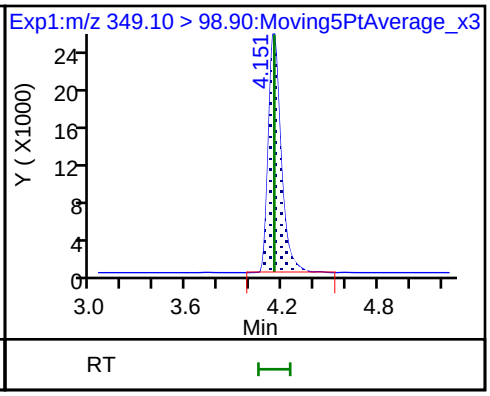
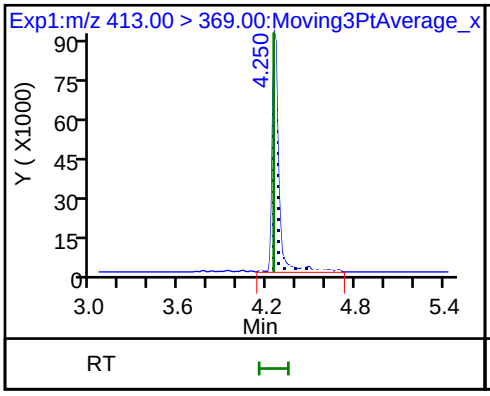


32 PFOA



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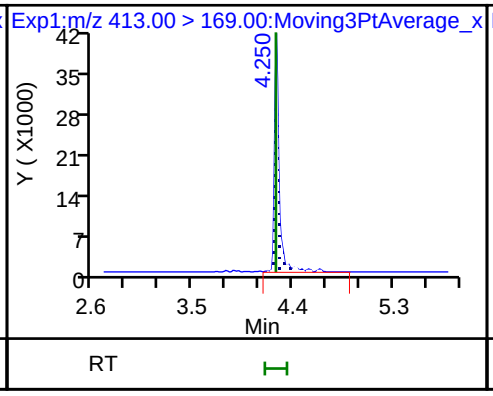

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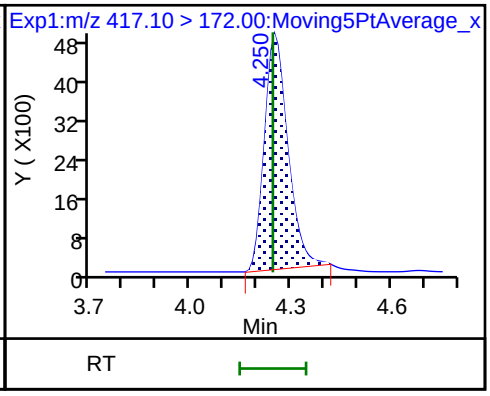

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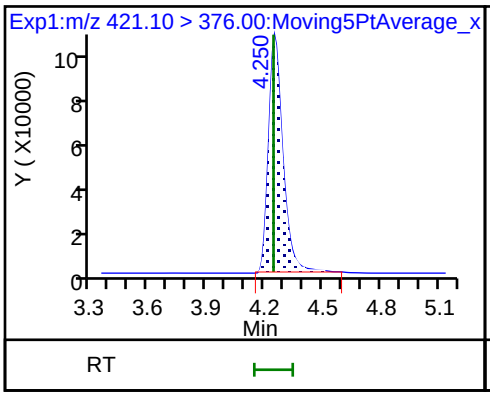

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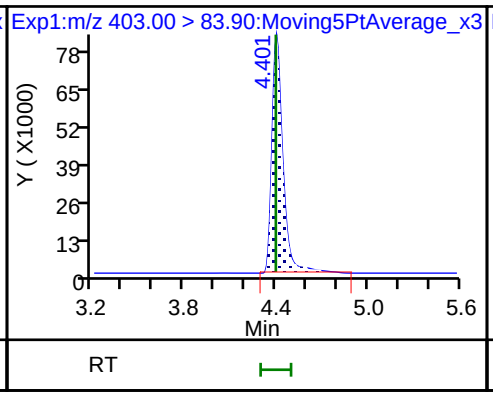

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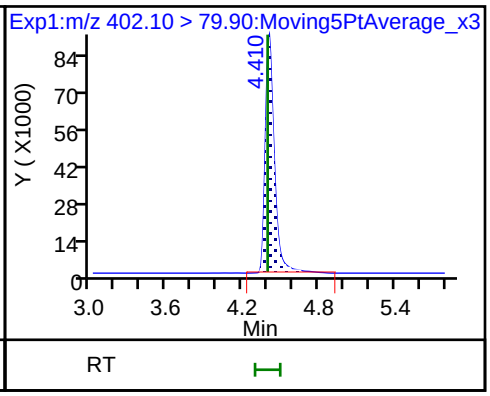

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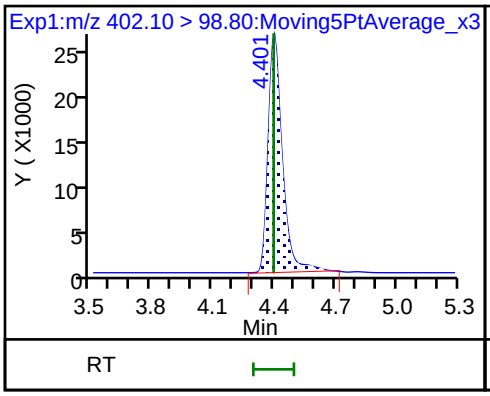

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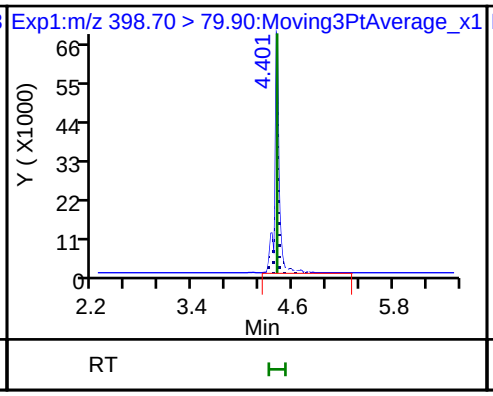

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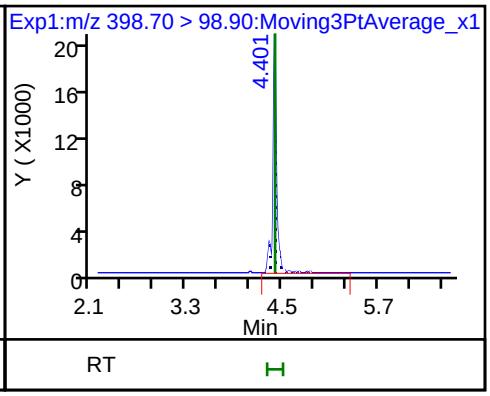

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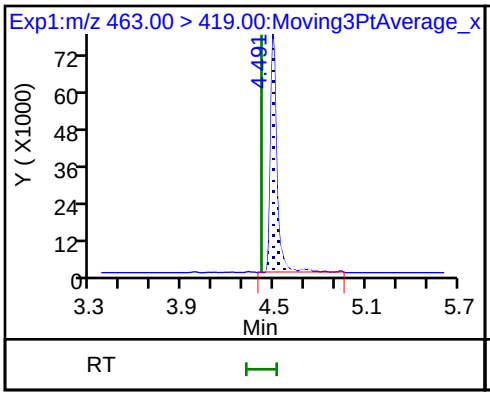

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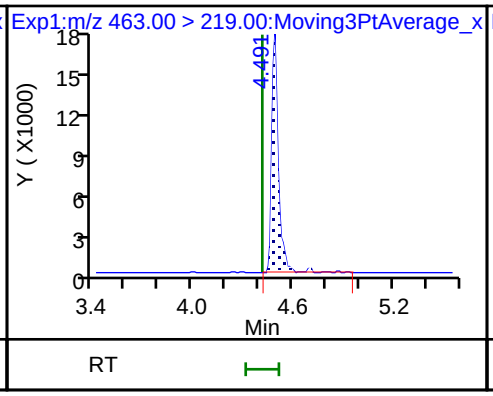

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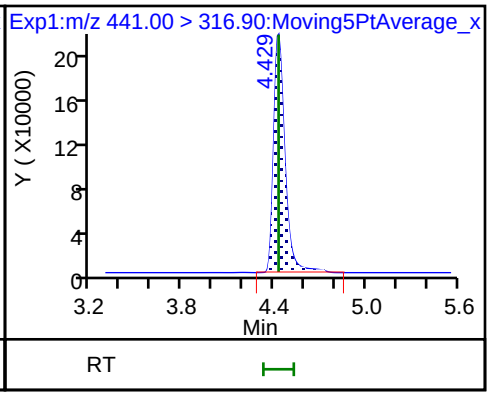

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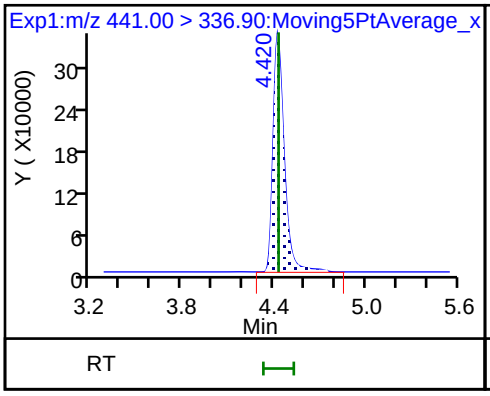

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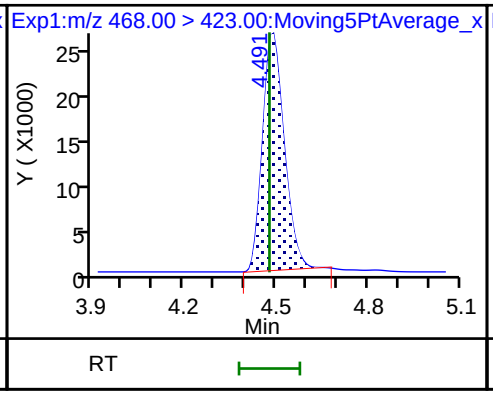

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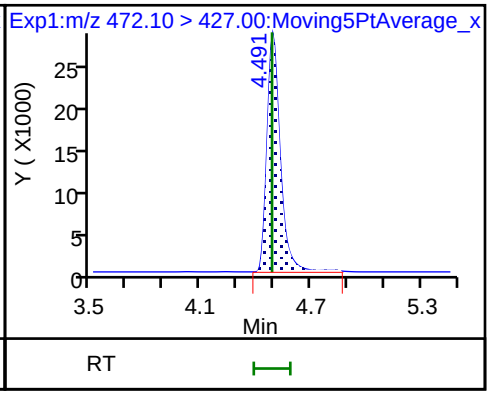

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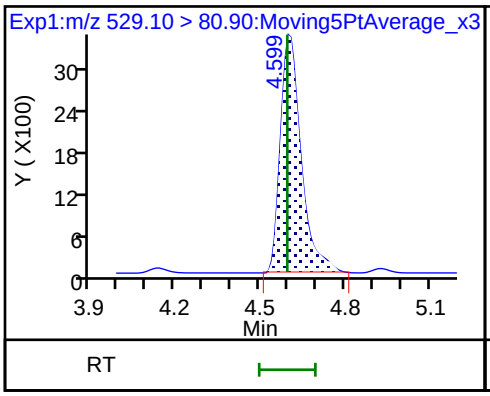

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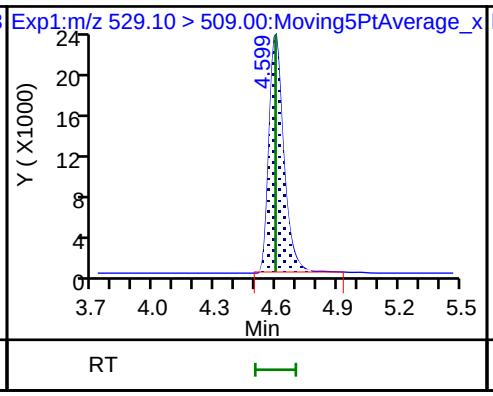

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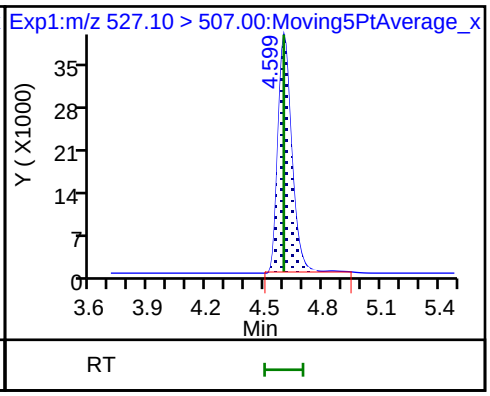

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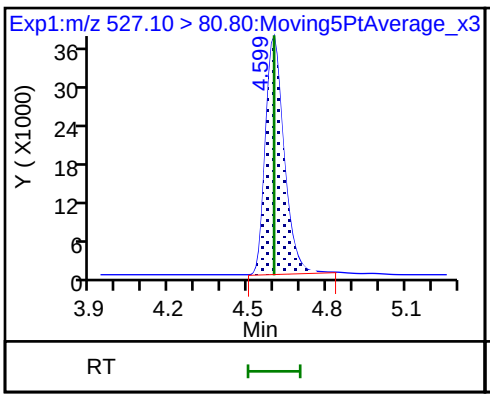

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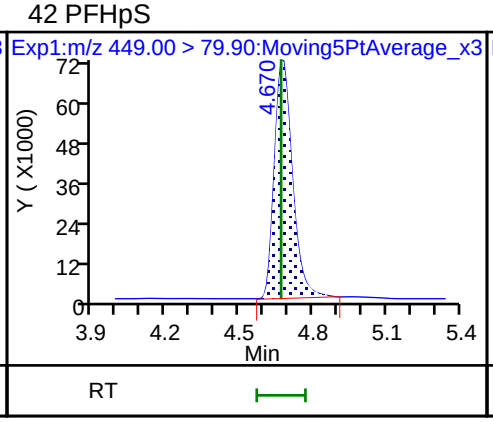

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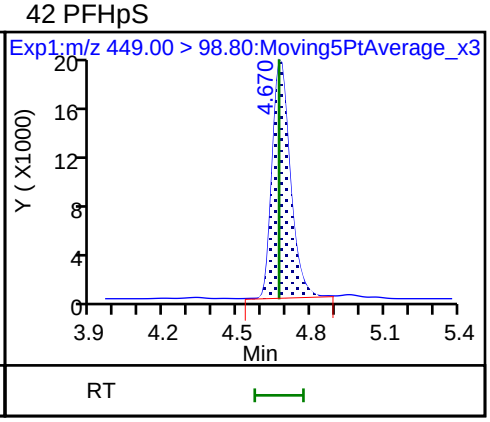
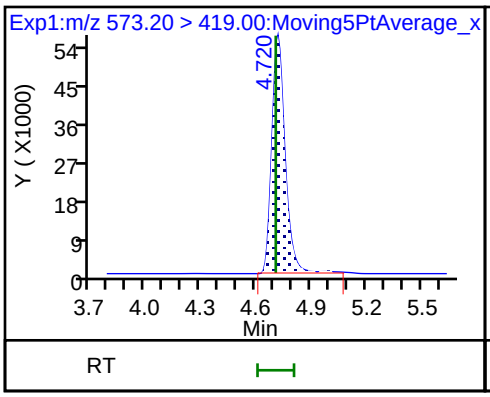


D 44 d3-NMeFOSAA



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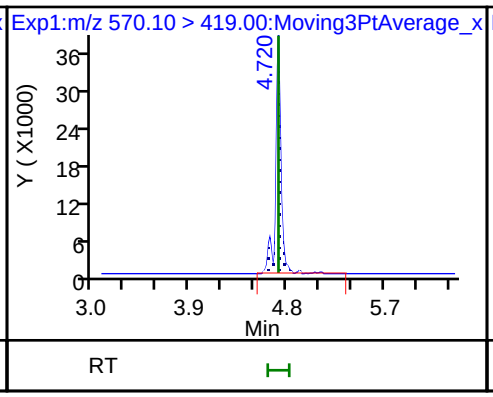

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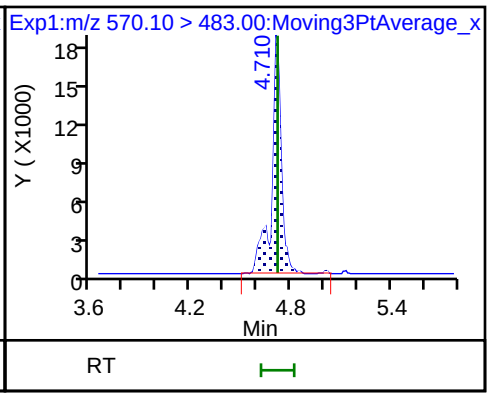

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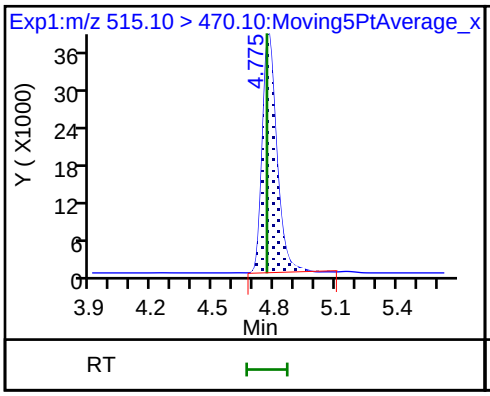

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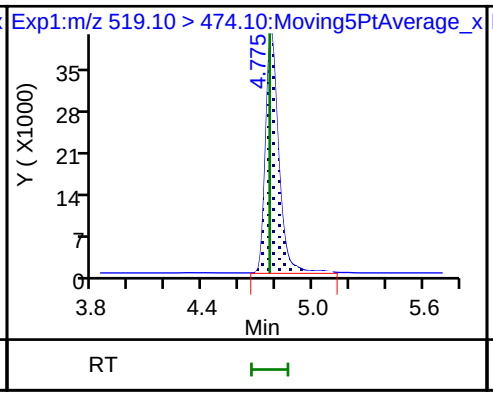

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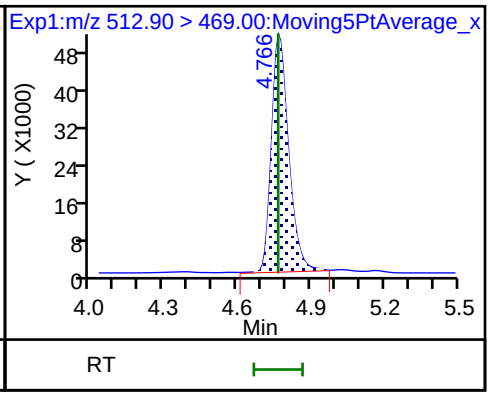

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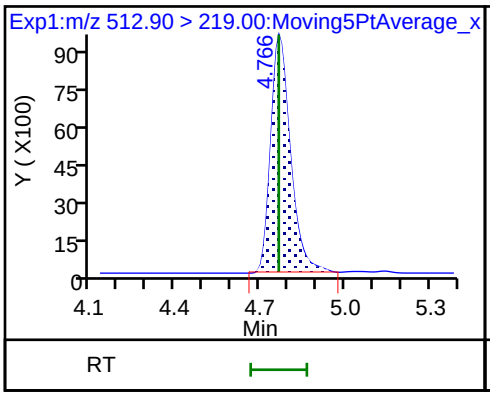
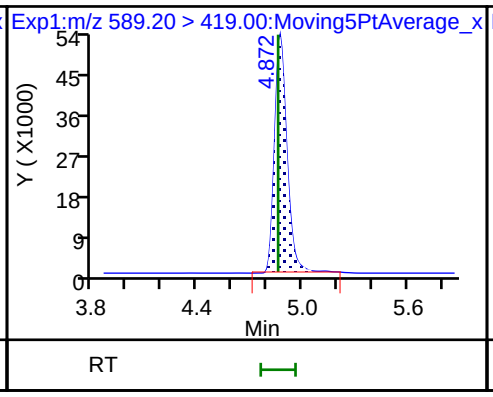


D 49 d5-NEtFOSAA



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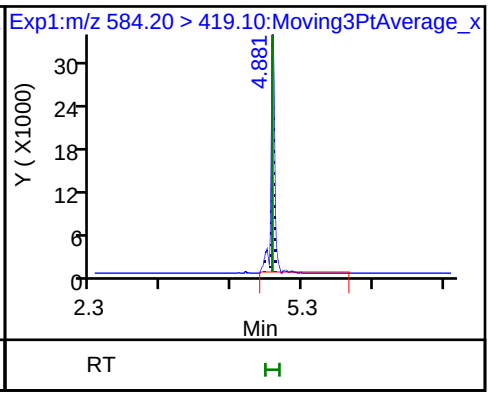

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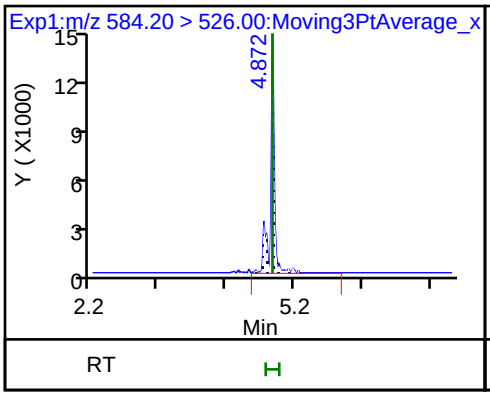

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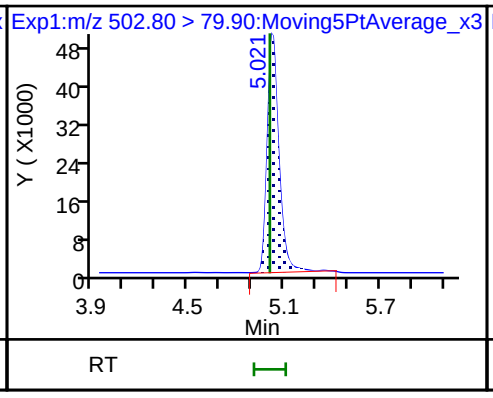

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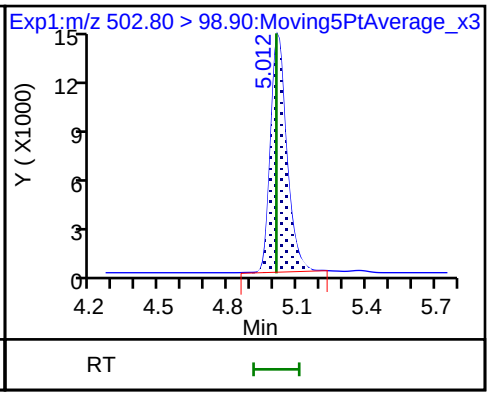

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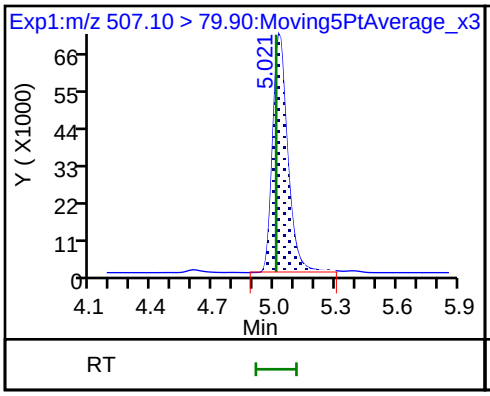

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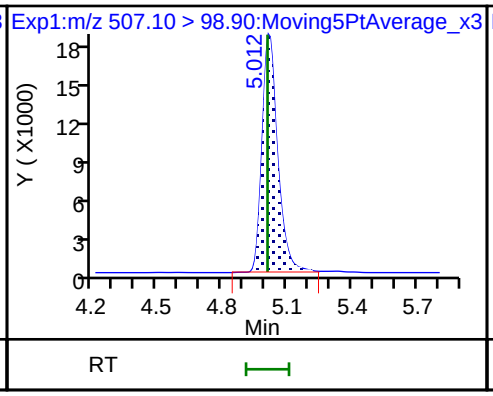

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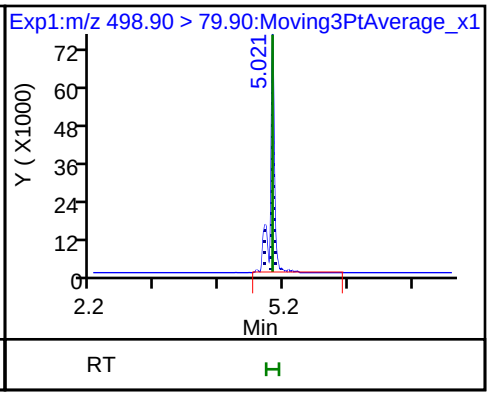

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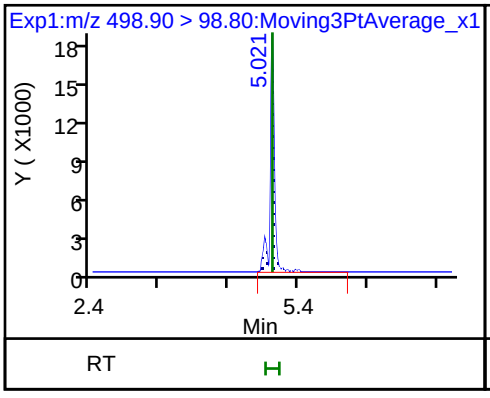

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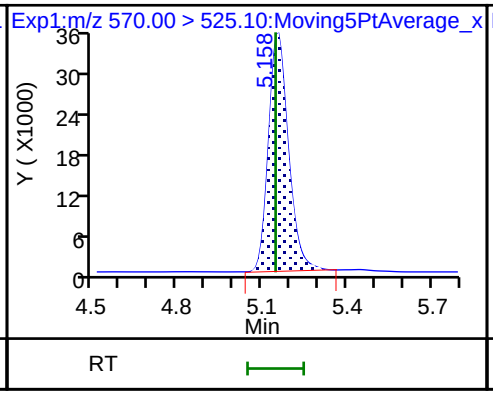

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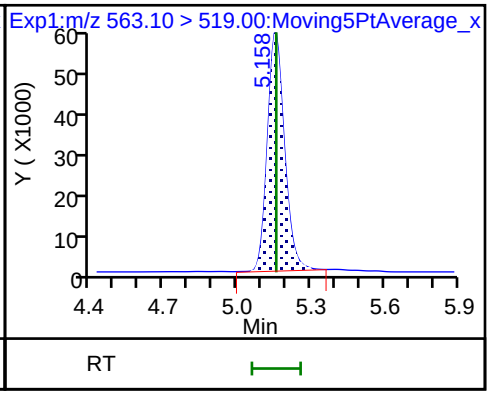

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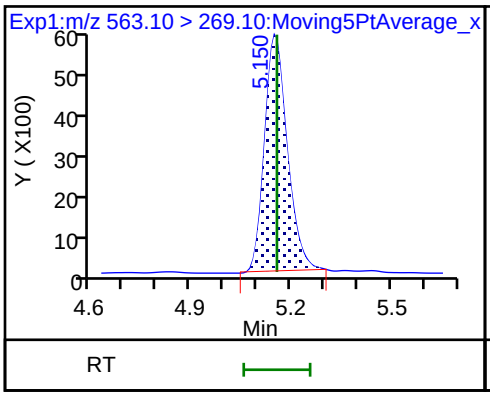

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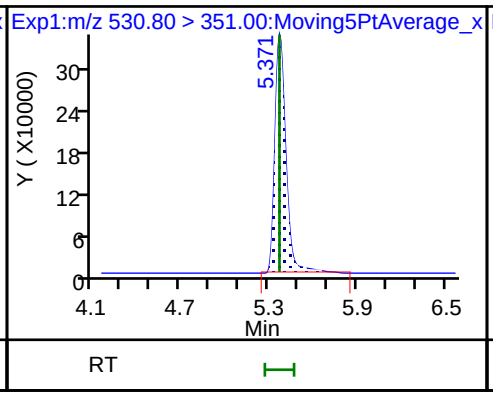

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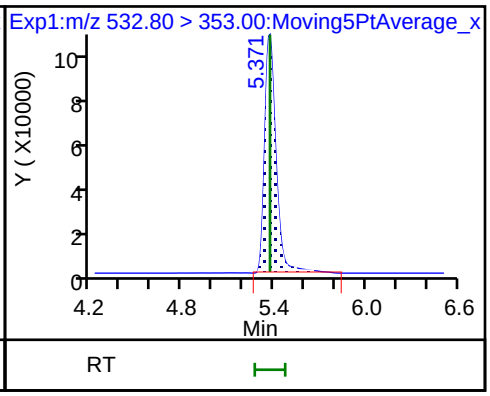
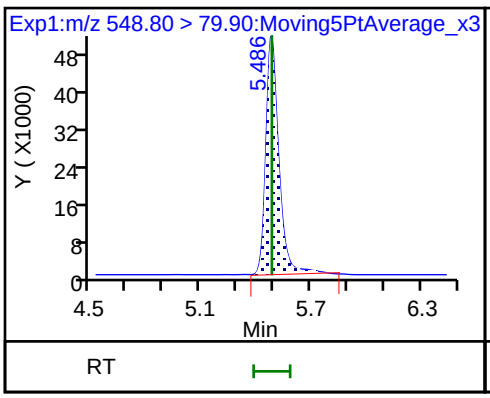


56 PFNS



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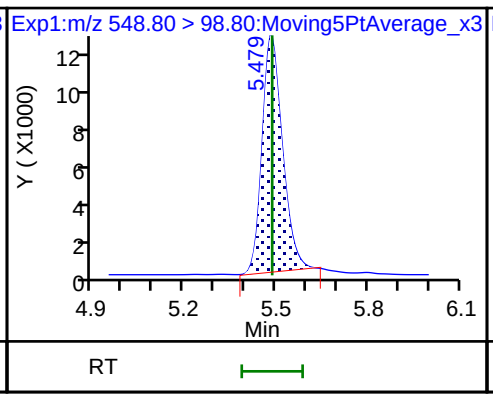

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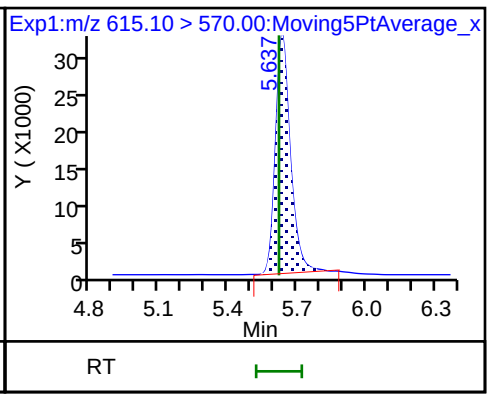

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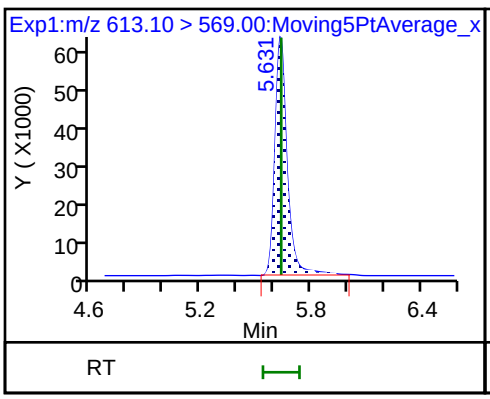

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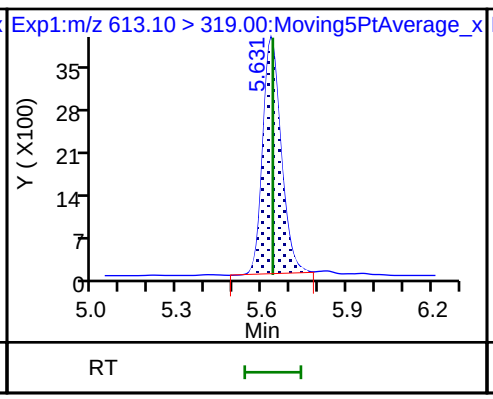

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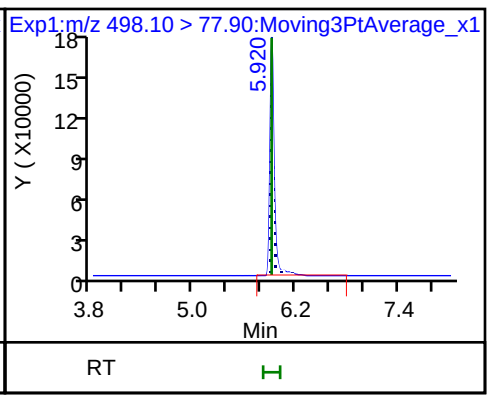
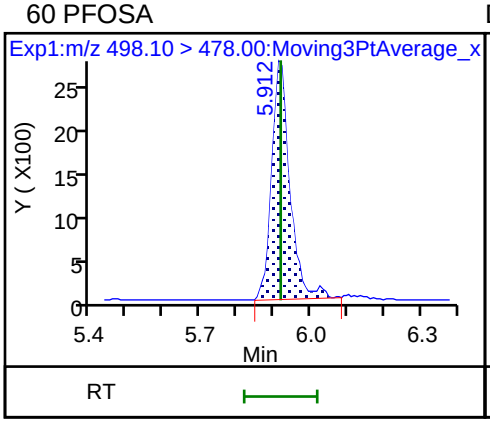
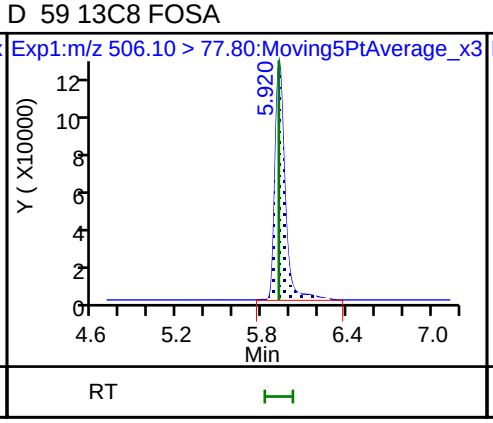


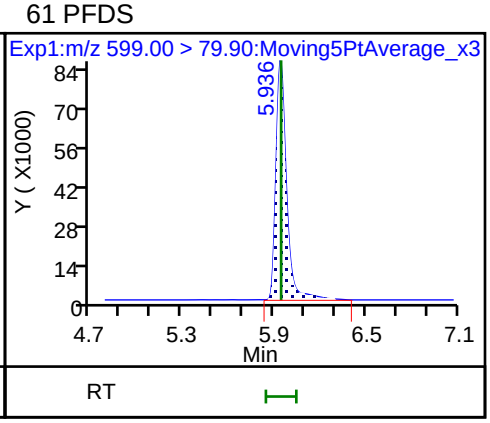
60 PFOSA



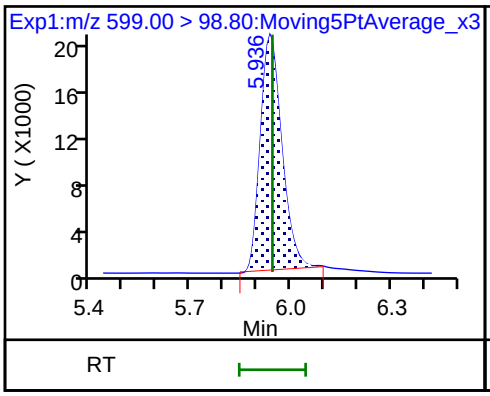
D 59 13C8 FOSA



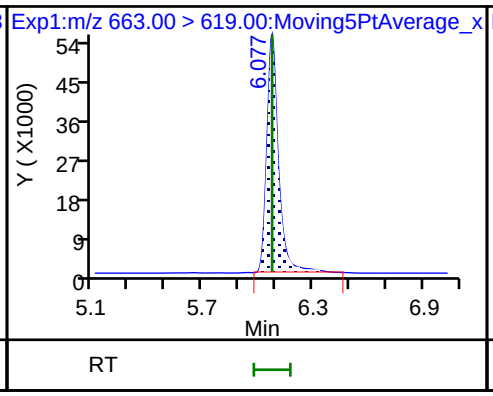
61 PFDS



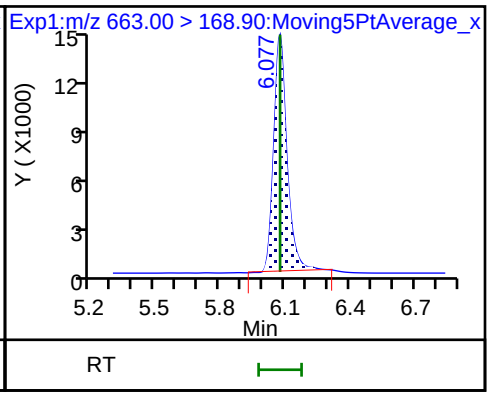
61 PFDS



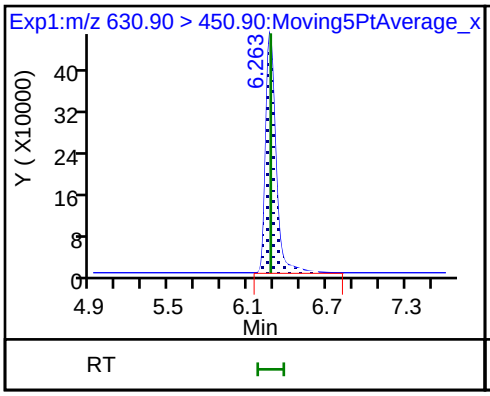
62 PFTrDA



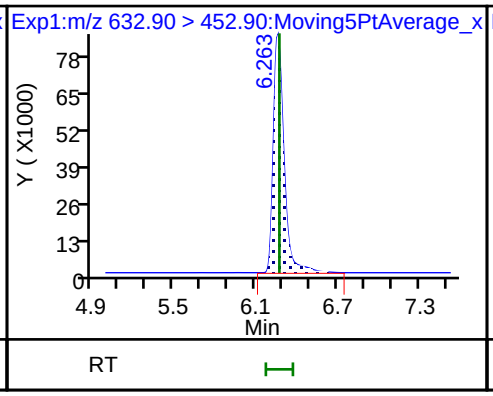
62 PFTrDA



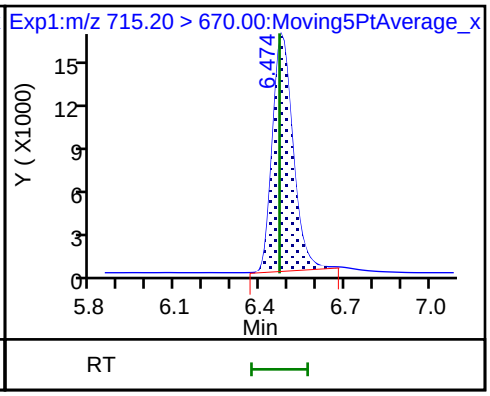
63 11ClFOS



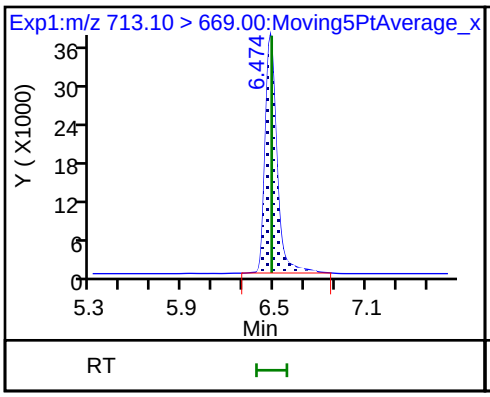
63 11ClFOS



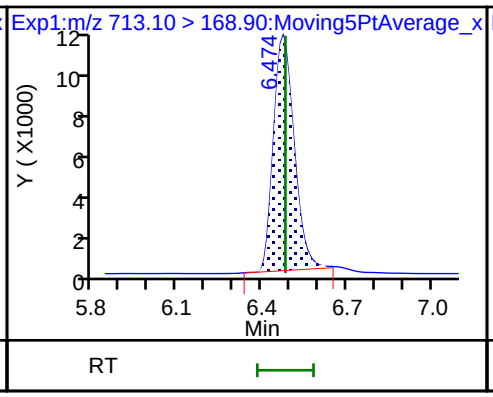
D 65 13C2 PFTeDA



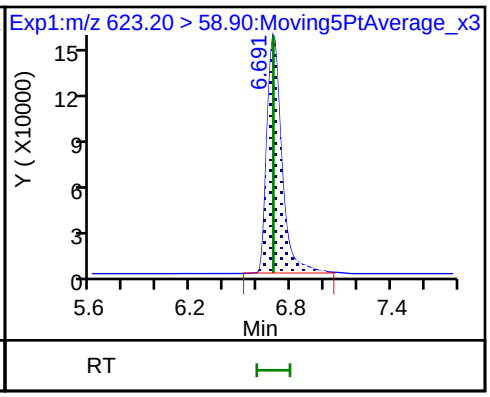
64 PFTeDA



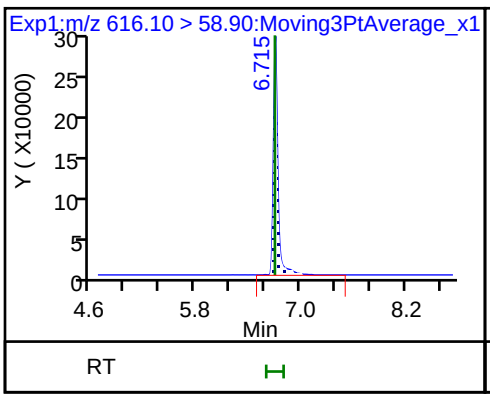
64 PFTeDA



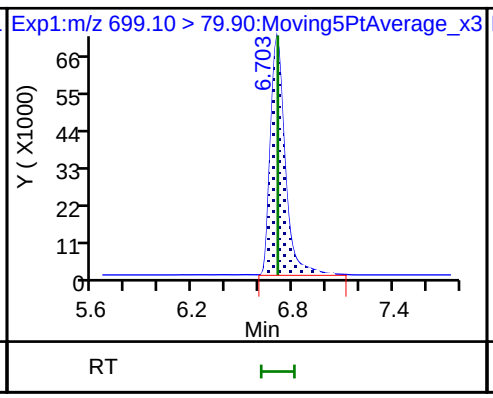
D 67 d7-N-Me-FOSE



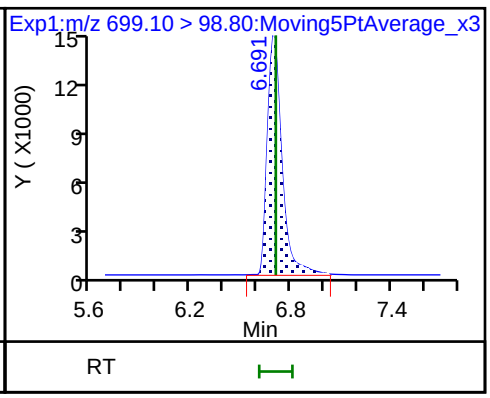
68 N-MeFOSE-M



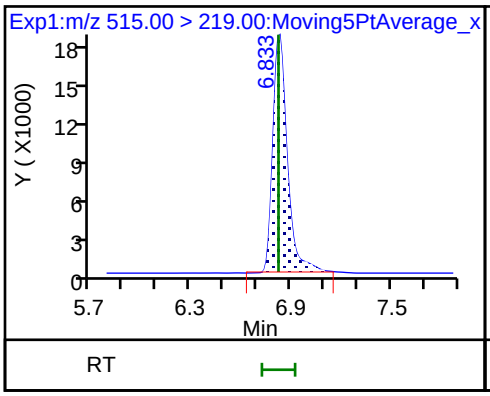
66 PFDoS



66 PFDoS



D 69 d3-NMePFOSA



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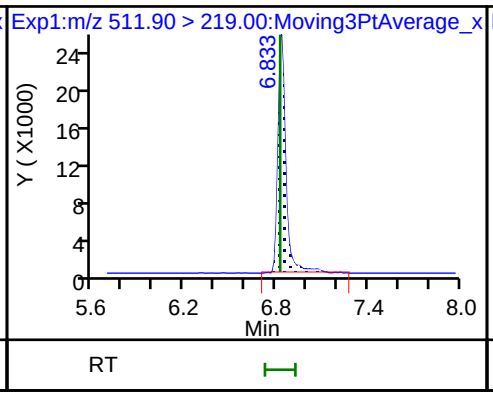
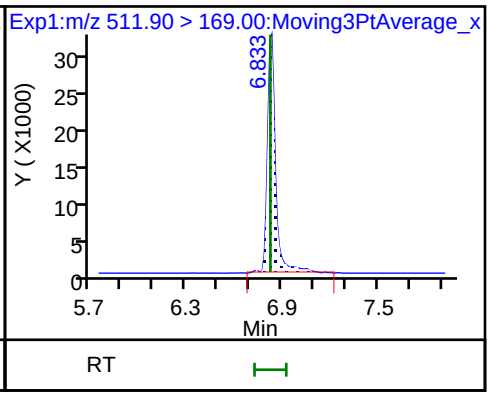
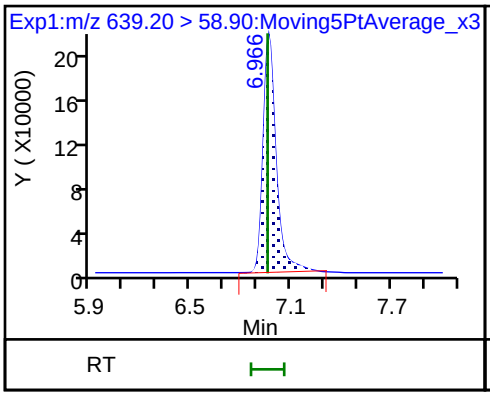


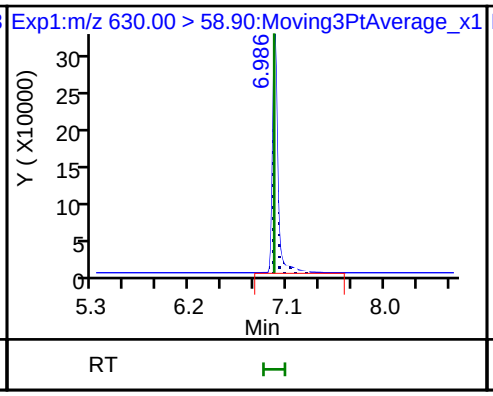
70 NMeFOSA



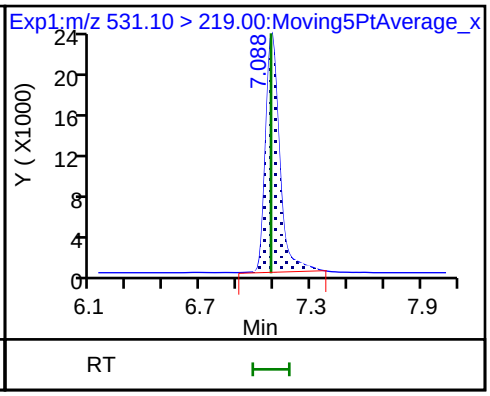
D 71 d9-N-EtFOSE



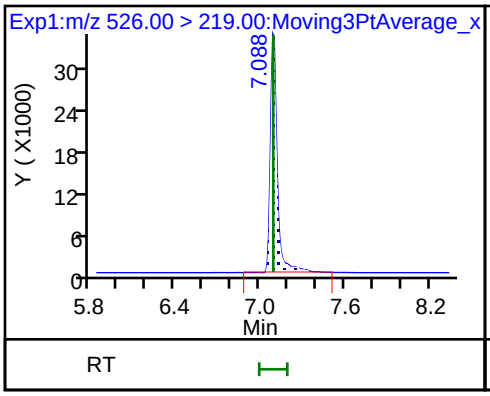
72 N-EtFOSE-M



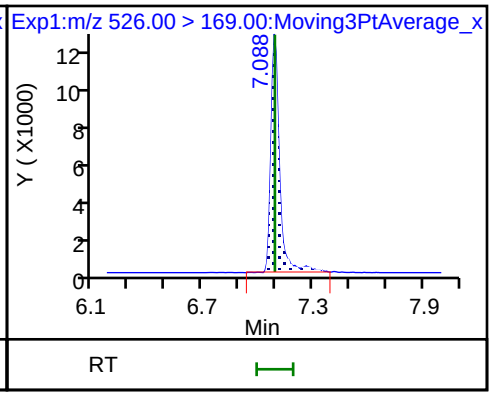
D 73 d5-NEtPFOSA



74 N-EtFOSA-M



74 N-EtFOSA-M



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

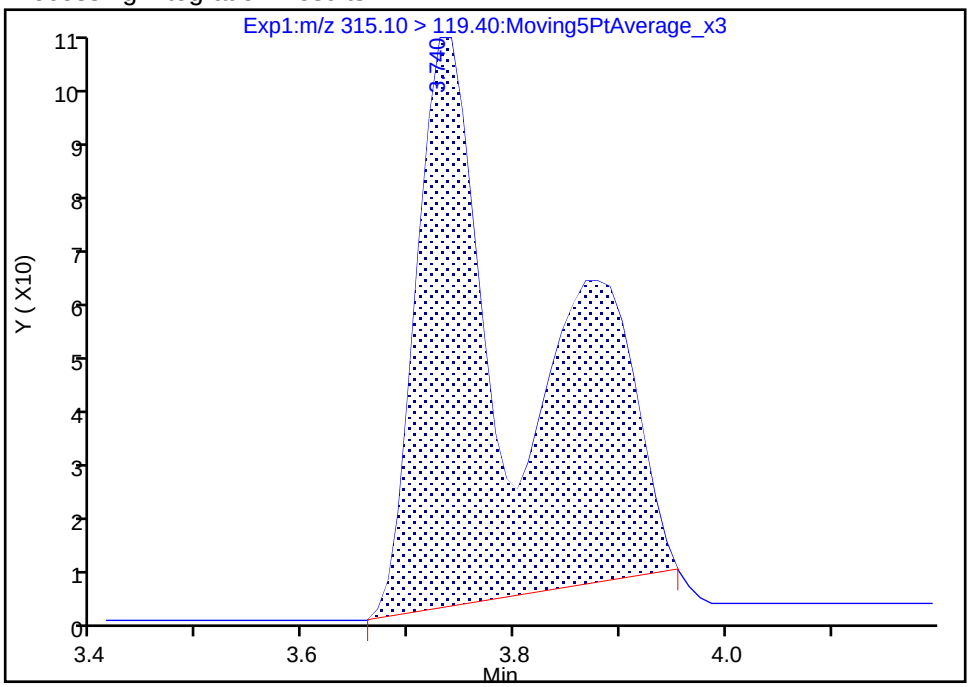
Data File:	\\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-04.d				
Injection Date:	05-Aug-2023 09:53:48	Instrument ID:	30729		
Lims ID:	IC CAL 4				
Client ID:					
Operator ID:	US19_USR_INS20263	ALS Bottle#:	20005	Worklist Smp#:	4
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

* 15 13C2 PFHxA, CAS: STL00993

Signal: 2

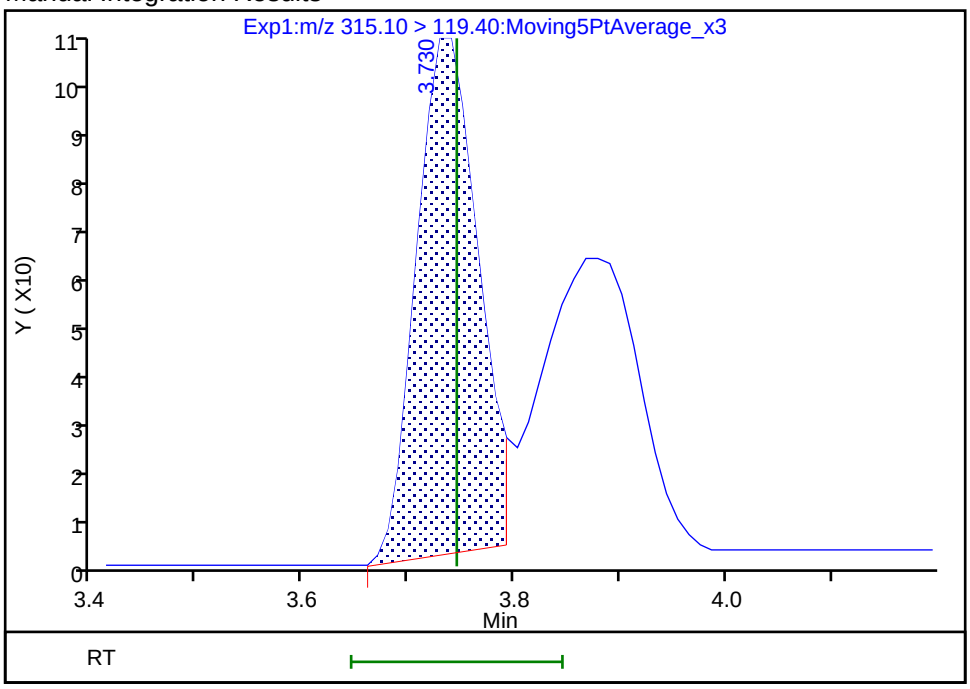
Processing Integration Results

RT: 3.74
Area: 735
Amount: 2.500000
Amount Units: ng/ml



Manual Integration Results

RT: 3.73
Area: 406
Amount: 2.500000
Amount Units: ng/ml



Reviewer: UCD3, 05-Aug-2023 11:12:29 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-05.d
Lims ID: ICISAV CAL 5
Client ID:
Sample Type: ICISAV Calib Level: 5
Inject. Date: 05-Aug-2023 10:06:52 ALS Bottle#: 20006 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: ICISAV CAL 5
Misc. Info.: Plate: 1 Rack: 1 410-0090708-005
Operator ID: US19_USR_INS20263 Instrument ID: 30729
Sublist: chrom-PFAS_30729_1633*sub4

Method: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\PFAS_30729_1633.m
Limit Group: LC - 1633 ICAL
Last Update: 05-Aug-2023 12:08:07 Calib Date: 05-Aug-2023 11:25:28
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-11.d

Column 1 : Det: EXP1
Process Host: CTX1666

First Level Reviewer: UCD3 Date: 05-Aug-2023 11:02:48
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4-PFBA										
216.80 > 171.90	2.939	2.939	0.0	1.000	1147637	9.75		97.5	67316	
* 3 13C3PFBA										
216.00 > 172.00	2.939	2.939	0.0		725204	5.00			1573	
1 PFBA										
212.80 > 168.90	2.939	2.939	0.0	1.000	1993614	20.8		104	10166	
5 3:3 FTCA										
241.00 > 177.00	3.163	3.163	0.0	0.916	154814	25.5	Target=1.07	102	10517	
241.00 > 117.00	3.163	3.163	0.0	0.916	139711		1.11(0.54-1.61)	102	3760	
4 PFMPA										
229.00 > 84.90	3.163	3.163	0.0	0.916	1296733	10.7		107	88284	
D 7 13C5 PFPeA										
268.30 > 223.00	3.452	3.452	0.0	0.918	335245	5.07		101	21345	
6 PFPA										
263.00 > 219.00	3.442	3.442	0.0	0.997	1291151	10.6	Target=1147.20	106	59209	
263.00 > 68.90	3.442	3.442	0.0	0.997	1014		1273.32(573.60-1720.80)	106	60.3	
8 PFMBA										
279.00 > 85.10	3.556	3.556	0.0	1.030	1020450	10.5		105	63303	
D 10 13C2-4:2FTS										
329.10 > 80.90	3.636	3.636	0.0	0.826	63053	4.96	Target=0.30	106	2947	
329.10 > 309.00	3.625	3.636	-0.011	0.824	178047		0.35(0.15-0.45)	106	11035	
9 4:2FTS										
327.10 > 307.00	3.636	3.636	0.0	1.000	603375	16.8	Target=1.45	89.4	36226	
327.10 > 80.90	3.636	3.636	0.0	1.000	430607		1.40(0.72-2.17)	89.4	26246	
12 NFDHA										
295.00 > 201.00	3.728	3.728	0.0	0.992	119559	11.0	Target=2.02	110	8095	
295.00 > 84.90	3.728	3.728	0.0	0.992	55148		2.17(1.01-3.03)	110	3509	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 14 13C5 PFHxA										
318.00 > 273.00	3.759	3.759	0.0	1.000	38699	2.40	Target=14.90	96.2	2567	
318.00 > 120.30	3.749	3.759	-0.010	0.997	2523		15.34(7.45-22.34)	96.2	172	
* 15 13C2 PFHxA										R
315.10 > 270.00	3.759	3.759	0.0		230139	2.50	Target=218.11		14418	R
315.10 > 119.40	3.738	3.759	-0.021		2223		103.53(109.05-327.16)		162	
13 PFHxA										
313.00 > 269.00	3.749	3.749	0.0	0.997	469064	5.58	Target=12.56	112	17844	
313.00 > 118.90	3.749	3.749	0.0	0.997	34402		13.63(6.28-18.83)	112	2034	
16 5:3 FTCA										
341.00 > 237.10	3.843	3.843	0.0	1.022	3229333	129.8	Target=2.80	104	191362	
341.00 > 217.00	3.843	3.843	0.0	1.022	1207023		2.68(1.40-4.19)	104	74466	
D 18 13C3 PFBS										
302.10 > 79.90	3.866	3.866	0.0	0.879	386200	2.15	Target=6.66	92.4	23320	
302.10 > 98.90	3.854	3.866	-0.012	0.876	55219		6.99(3.33-9.99)	92.4	3608	
17 PFBS										
298.70 > 79.90	3.854	3.854	0.0	0.997	516485	5.15	Target=3.12	116	24559	
298.70 > 98.80	3.854	3.854	0.0	0.997	151555		3.41(1.56-4.67)	116	9243	
D 20 13C3 HFPO-DA										
286.90 > 168.90	3.877	3.877	0.0	1.031	1000776	9.85	Target=27.88	98.5	59741	
286.90 > 184.90	3.866	3.877	-0.011	1.028	34509		29.00(13.94-41.82)	98.5	2278	
19 HFPO-DA										
284.90 > 168.90	3.877	3.877	0.0	1.000	1360238	19.9	Target=18.47	99.3	7552	
284.90 > 184.90	3.866	3.877	-0.011	0.997	76971		17.67(9.23-27.70)	99.3	4807	
23 PFEESA										
314.80 > 134.90	4.006	4.006	0.0	1.066	4062860	9.15	Target=14.12	103	192462	
314.80 > 82.90	4.006	4.006	0.0	1.066	287074		14.15(7.06-21.18)	103	8888	
D 25 13C4 PFHpA										
367.10 > 322.00	4.017	4.017	0.0	1.068	488715	2.53		101	30519	
24 PFHpA										
363.10 > 319.00	4.017	4.017	0.0	1.000	927887	5.03	Target=3.63	101	42922	
363.10 > 169.00	4.006	4.017	-0.011	0.997	256042		3.62(1.81-5.44)	101	15554	
26 ADONA										
376.90 > 250.90	4.105	4.105	0.0	1.059	3809346	19.7	Target=12.35	104	170982	
376.90 > 84.80	4.094	4.105	-0.011	1.056	296592		12.84(6.17-18.52)	104	17672	
D 29 13C2-6:2FTS										
429.10 > 80.90	4.127	4.127	0.0	0.938	24879	3.79	Target=0.15	79.8	1553	
429.10 > 409.00	4.116	4.127	-0.011	0.936	206026		0.12(0.07-0.22)	79.8	12584	
27 6:2FTS										
427.10 > 407.00	4.127	4.127	0.0	1.000	533384	22.3	Target=1.66	118	31723	
427.10 > 80.90	4.116	4.127	-0.011	0.997	312351		1.71(0.83-2.50)	118	14601	
28 PFPeS										
349.10 > 79.90	4.149	4.149	0.0	0.941	874706	4.67	Target=3.80	99.3	52946	
349.10 > 98.90	4.149	4.149	0.0	0.941	226961		3.85(1.90-5.70)	99.3	13723	
32 PFOA										
413.00 > 369.00	4.249	4.249	0.0	1.000	531929	5.25	Target=2.19	105	639	
413.00 > 169.00	4.249	4.249	0.0	1.000	225721		2.36(1.09-3.28)	105	400	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 30 13C4 PFOA										
417.10 > 172.00	4.249	4.249	0.0		23665	2.50			1612	
D 31 13C8 PFOA										
421.10 > 376.00	4.249	4.249	0.0	1.000	512391	2.28		91.1	32109	
* 35 18O2 PFHxS										
403.00 > 83.90	4.399	4.399	0.0		409932	2.37			27309	
D 36 13C3 PFHxS										
402.10 > 79.90	4.408	4.408	0.0	1.002	449910	2.31	Target=3.87	97.4	30520	
402.10 > 98.80	4.399	4.408	-0.009	1.000	115313		3.90(1.93-5.80)	97.4	8154	
34 PFHxS										
398.70 > 79.90	4.408	4.408	0.0	1.000	460556	4.61	Target=3.41	101	2110	
398.70 > 98.90	4.408	4.408	0.0	1.000	135869		3.39(1.70-5.11)	101	696	
39 PFNA										
463.00 > 419.00	4.490	4.490	0.0	1.000	480716	5.30	Target=4.66	106	1171	
463.00 > 219.00	4.490	4.490	0.0	1.000	91510		5.25(2.33-7.00)	106	346	
33 7:3 FTCA										
441.00 > 316.90	4.427	4.427	0.0	1.178	2381915	135.0	Target=0.66	108	155822	
441.00 > 336.90	4.418	4.427	-0.009	1.175	3587635		0.66(0.33-1.00)	108	232389	
* 37 13C5 PFNA										
468.00 > 423.00	4.490	4.490	0.0		125846	1.25			6338	
D 38 13C9 PFNA										
472.10 > 427.00	4.490	4.490	0.0	1.000	134993	1.27		102	8676	
D 41 13C2-8:2FTS										
529.10 > 80.90	4.599	4.599	0.0	1.045	16706	4.77	Target=0.14	99.4	1105	
529.10 > 509.00	4.599	4.599	0.0	1.045	120956		0.14(0.07-0.21)	99.4	6204	
40 8:2FTS										
527.10 > 507.00	4.599	4.599	0.0	1.000	384008	19.7	Target=1.18	102	26225	
527.10 > 80.80	4.599	4.599	0.0	1.000	317908		1.21(0.59-1.77)	102	21097	
42 PFHpS										
449.00 > 79.90	4.669	4.669	0.0	0.930	768828	4.99	Target=3.61	105	37563	
449.00 > 98.80	4.669	4.669	0.0	0.930	206280		3.73(1.80-5.41)	105	10182	
D 44 d3-NMeFOSAA										
573.20 > 419.00	4.719	4.719	0.0	0.940	275611	5.10		102	18710	
43 NMeFOSAA										
570.10 > 419.00	4.719	4.719	0.0	1.000	243219	4.71	Target=1.96	94.2	1460	
570.10 > 483.00	4.719	4.719	0.0	1.000	137313		1.77(0.98-2.93)	94.2	39374	
* 46 13C2 PFDA										
515.10 > 470.10	4.775	4.775	0.0		180417	1.25			9006	
D 47 13C6 PFDA										
519.10 > 474.10	4.775	4.775	0.0	1.000	170102	1.17		93.5	8709	
45 PFDA										
512.90 > 469.00	4.765	4.765	0.0	0.998	501263	5.18	Target=6.39	104	25504	
512.90 > 219.00	4.765	4.765	0.0	0.998	83460		6.01(3.20-9.59)	104	5700	
D 49 d5-NEtFOSAA										
589.20 > 419.00	4.871	4.871	0.0	0.970	229785	4.57		91.3	11450	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
48 NEtFOSAA										
584.20 > 419.10	4.871	4.871	0.0	1.000	180306	5.24	Target=1.68	105	439	
584.20 > 526.00	4.871	4.871	0.0	1.000	107040		1.68(0.84-2.52)	105	337	
* 52 13C4 PFOS										
502.80 > 79.90	5.021	5.021	0.0		260423	2.40	Target=3.81		10537	
502.80 > 98.90	5.021	5.021	0.0		62342		4.18(1.91-5.72)		4286	
D 51 13C8 PFOS										
507.10 > 79.90	5.021	5.021	0.0	1.000	365200	2.36	Target=4.02	98.4	8331	
507.10 > 98.90	5.012	5.021	-0.009	0.998	92193		3.96(2.01-6.03)	98.4	4693	
50 PFOS										
498.90 > 79.90	5.021	5.021	0.0	1.000	638848	4.55	Target=4.56	98.0	1943	
498.90 > 98.80	5.021	5.021	0.0	1.000	140385		4.55(2.28-6.83)	98.0	1115	
D 54 13C7 PFUnA										
570.00 > 525.10	5.158	5.158	0.0	1.080	159565	1.19		95.4	8141	
53 PFUnA										
563.10 > 519.00	5.158	5.158	0.0	1.000	570351	5.05	Target=11.35	101	16691	
563.10 > 269.10	5.149	5.158	-0.009	0.998	50535		11.29(5.67-17.02)	101	3571	
55 9ClFOS										
530.80 > 351.00	5.371	5.371	0.0	1.385	3513622	19.7	Target=3.22	105	225577	
532.80 > 353.00	5.371	5.371	0.0	1.385	1096352		3.20(1.61-4.83)	105	70215	
56 PFNS										
548.80 > 79.90	5.486	5.486	0.0	1.093	541963	5.25	Target=4.35	109	36996	
548.80 > 98.80	5.479	5.486	-0.007	1.091	115377		4.70(2.18-6.53)	109	6113	
D 58 PFDoDA										
615.10 > 570.00	5.637	5.637	0.0	1.181	143392	1.21		96.6	7935	
57 PFDoA										
613.10 > 569.00	5.637	5.637	0.0	1.000	560209	5.18	Target=16.83	104	29335	
613.10 > 319.00	5.630	5.637	-0.007	0.999	34507		16.23(8.42-25.25)	104	2571	
60 PFOSA										
498.10 > 77.90	5.920	5.920	0.0	1.000	1183430	5.48	Target=57.83	110	25242	
498.10 > 478.00	5.920	5.920	0.0	1.000	20285		58.34(28.91-86.74)	110	459	
D 59 13C8 FOSA										
506.10 > 77.80	5.920	5.920	0.0	1.179	523526	2.31		92.3	14214	
61 PFDS										
599.00 > 79.90	5.944	5.944	0.0	1.184	818086	5.03	Target=4.33	104	57135	
599.00 > 98.80	5.936	5.944	-0.008	1.182	187775		4.36(2.16-6.49)	104	10501	
62 PFTrDA										
663.00 > 619.00	6.076	6.076	0.0	0.937	449192	5.04	Target=3.74	101	33149	
663.00 > 168.90	6.076	6.076	0.0	0.937	125135		3.59(1.87-5.60)	101	7308	
63 11ClFOS										
630.90 > 450.90	6.272	6.272	0.0	1.618	4937820	20.7	Target=5.39	110	306256	
632.90 > 452.90	6.261	6.272	-0.011	1.615	931542		5.30(2.70-8.09)	110	57874	
D 65 13C2 PFTeDA										
715.20 > 670.00	6.482	6.482	0.0	1.358	79466	1.19		95.1	5281	
64 PFTeDA										
713.10 > 669.00	6.482	6.482	0.0	1.000	391962	5.39	Target=3.33	108	24075	
713.10 > 168.90	6.472	6.482	-0.010	0.998	118327		3.31(1.66-4.99)	108	7432	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 67 d7-N-Me-FOSE										
623.20 > 58.90	6.696	6.696	0.0	1.334	910468	24.4		97.6	37395	
68 N-MeFOSE-M										
616.10 > 58.90	6.720	6.720	0.0	1.004	2078534	51.3		103	22199	
66 PFDoS										
699.10 > 79.90	6.708	6.708	0.0	1.336	862061	5.08	Target=4.86	105	48030	
699.10 > 98.80	6.696	6.708	-0.012	1.334	173692		4.96(2.43-7.28)	105	9732	
D 69 d3-NMePFOSA										
515.00 > 219.00	6.839	6.839	0.0	1.362	110527	2.48		99.3	6097	
70 NMeFOSA										
511.90 > 219.00	6.839	6.839	0.0	1.000	173156	4.93	Target=0.79	98.6	3611	
511.90 > 169.00	6.839	6.839	0.0	1.000	222587		0.78(0.40-1.18)	98.6	5565	
D 71 d9-N-EtFOSE										
639.20 > 58.90	6.972	6.972	0.0	1.389	1123697	24.5		98.1	41234	
72 N-EtFOSE-M										
630.00 > 58.90	6.992	6.992	0.0	1.003	2129391	50.4		101	22834	
D 73 d5-NEtPFOSA										
531.10 > 219.00	7.094	7.094	0.0	1.413	118573	2.48		99.3	7552	
74 N-EtFOSA-M										
526.00 > 219.00	7.094	7.094	0.0	1.000	231706	5.07	Target=3.02	101	2694	
526.00 > 169.00	7.094	7.094	0.0	1.000	77273		3.00(1.51-4.53)	101	1577	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Reagents:

PFC_STD5_1633_00008 Amount Added: 1.00 Units: mL

Report Date: 05-Aug-2023 12:08:12 Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-05.d

Injection Date: 05-Aug-2023 10:06:52 Instrument ID: 30729

Lims ID: ICISAV CAL 5

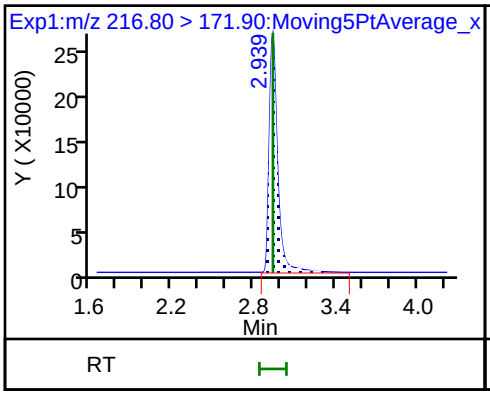
Client ID:

Operator ID: US19_USR_INS20263 ALS Bottle#: 20006 Worklist Smp#: 5

Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: PFAS_30729_1633 Limit Group: LC - 1633 ICAL

D 2 13C4-PFBA



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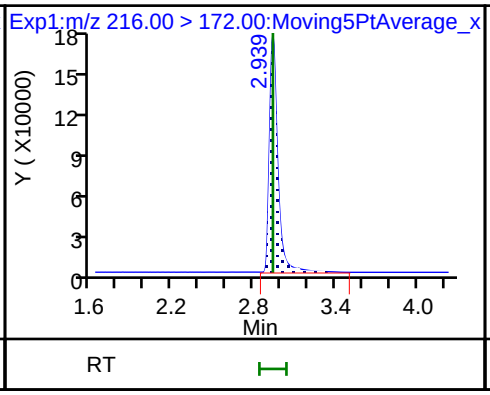

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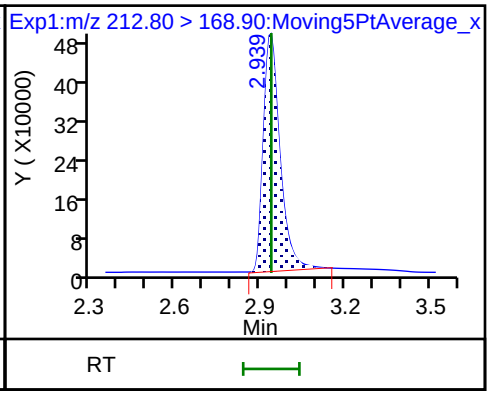

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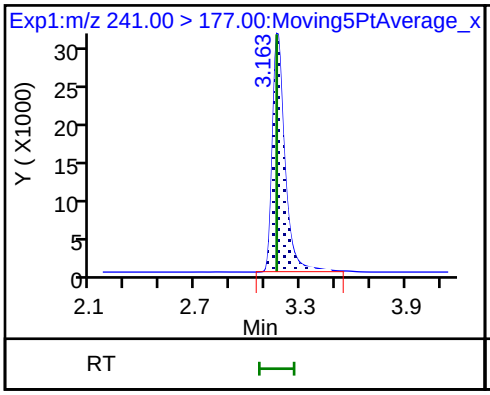

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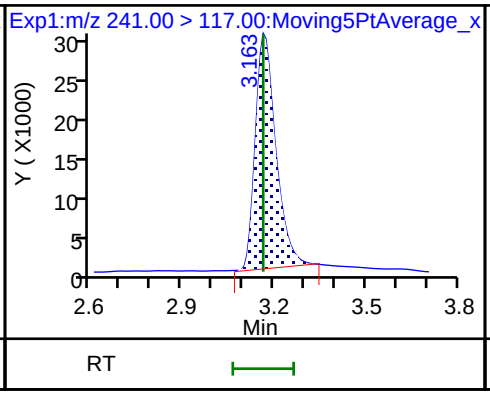

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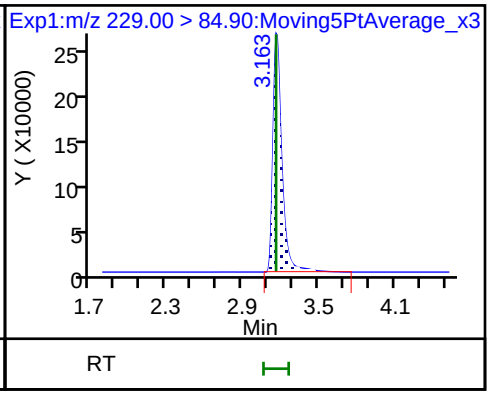
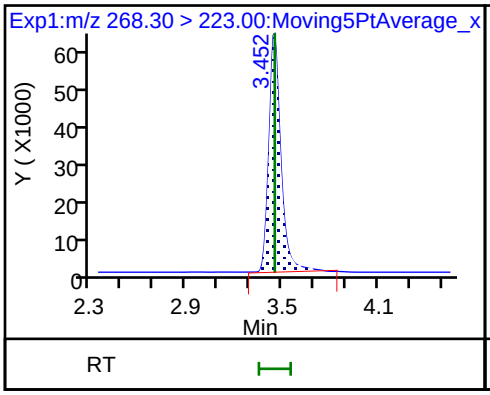


D 7 13C5 PFPeA



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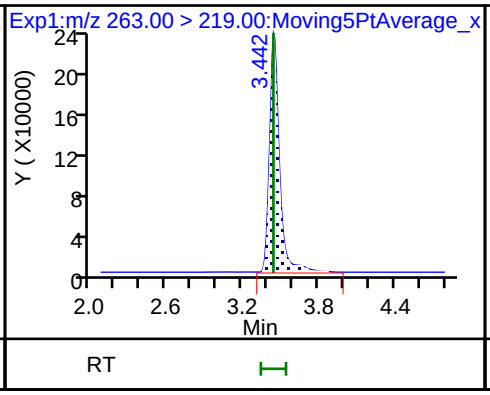

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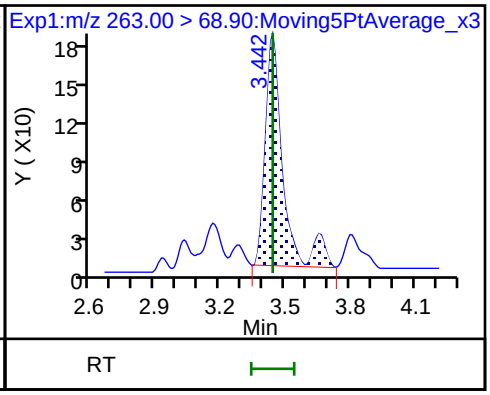

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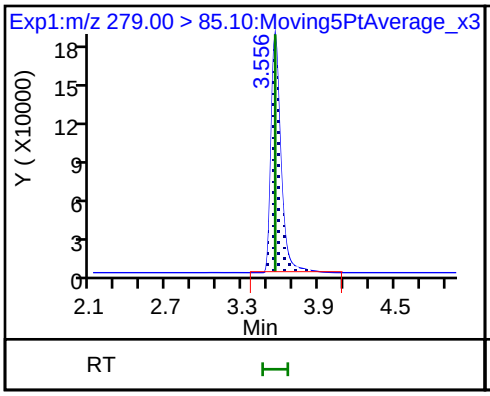

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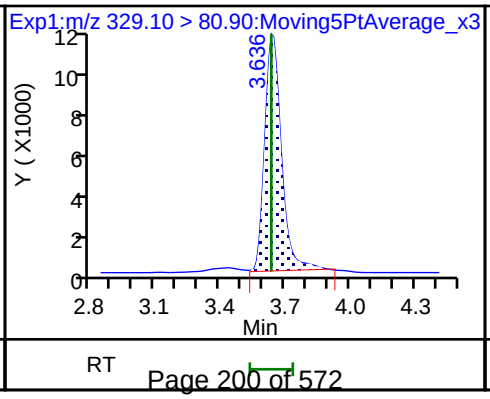

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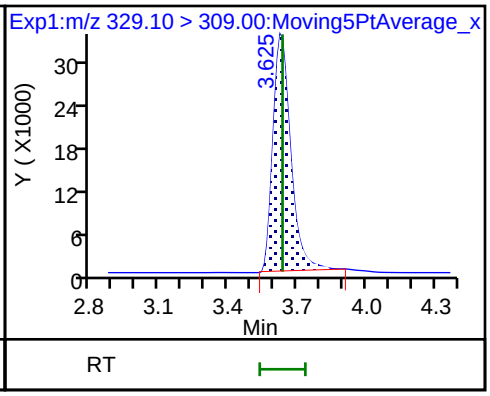

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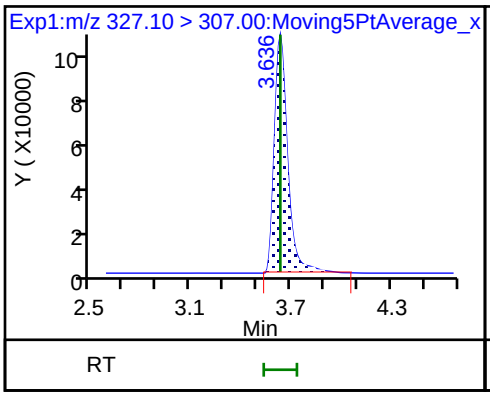

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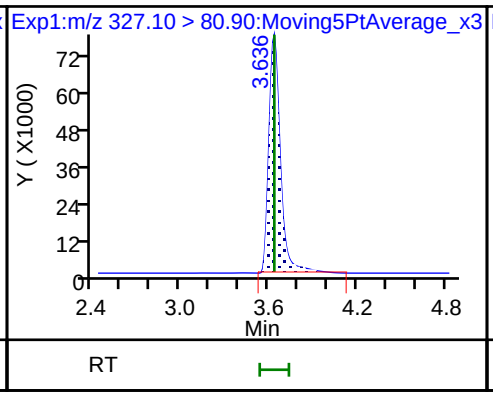
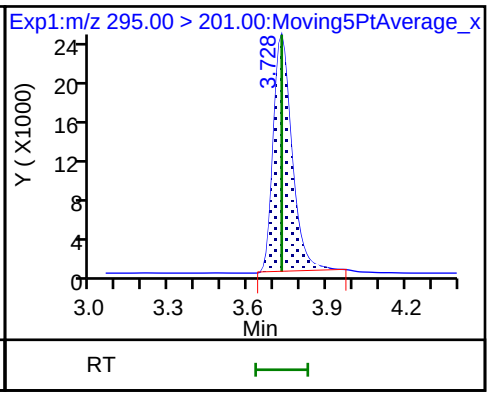
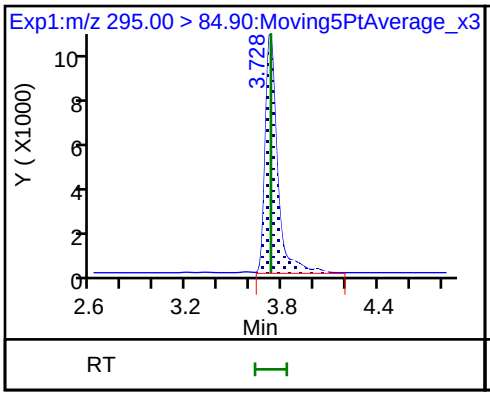


12 NFDHA



12 NFDHA



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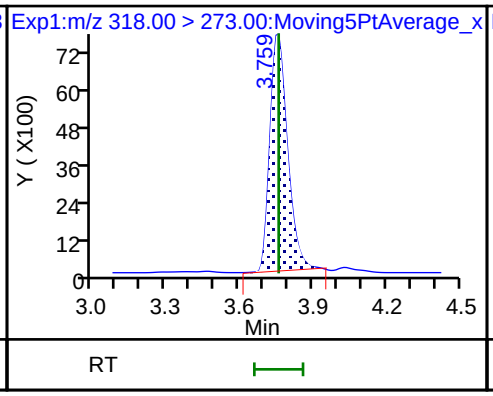

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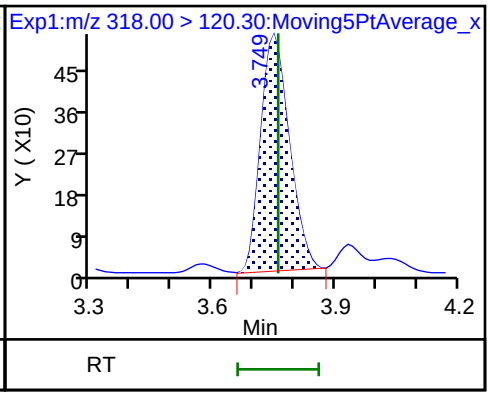

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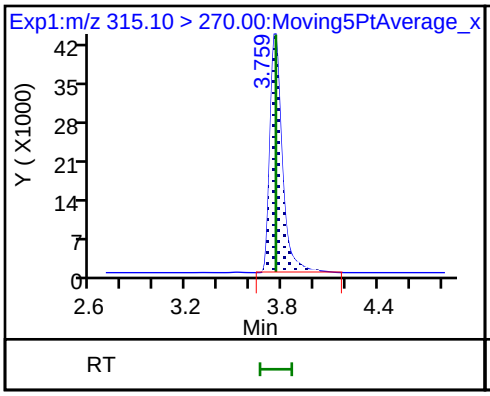

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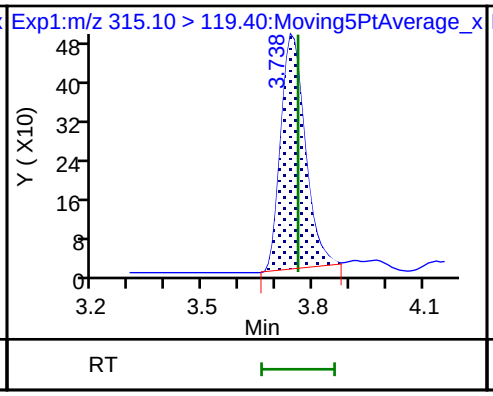
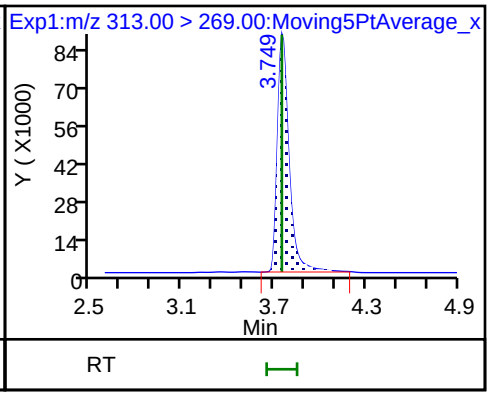


13 PFHxA



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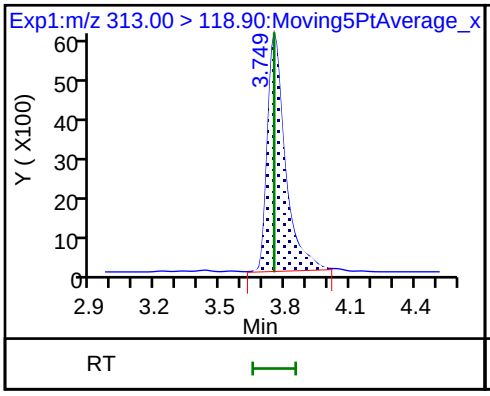

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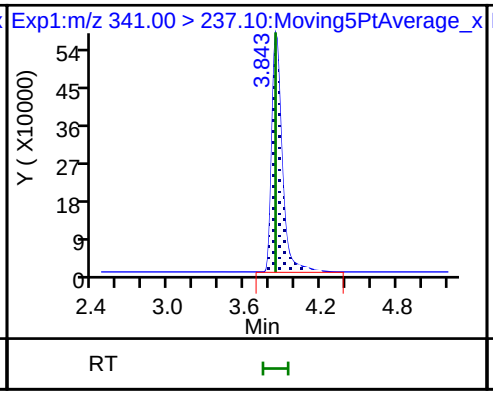

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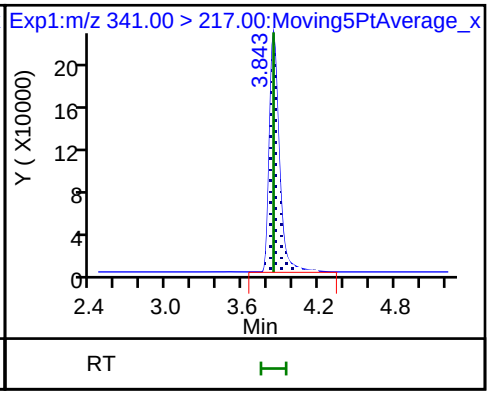

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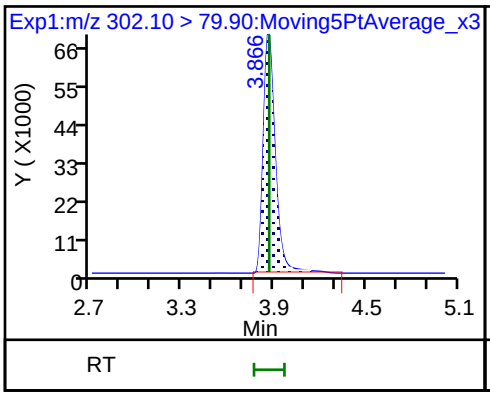

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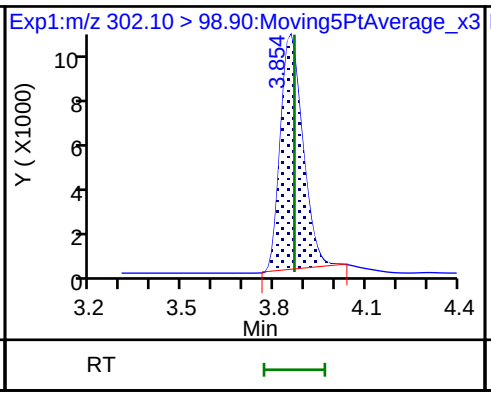

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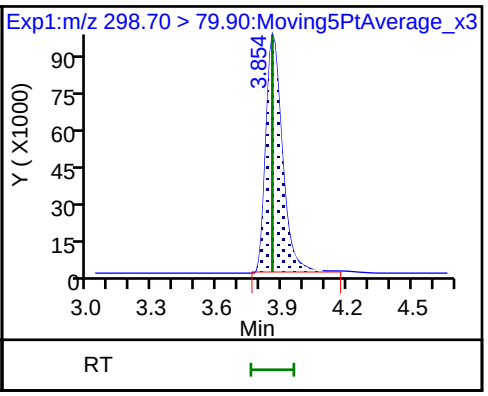
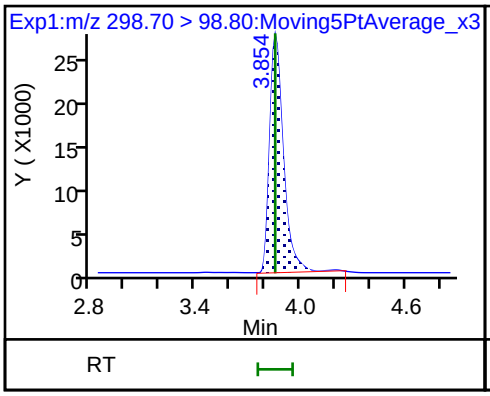


17 PFBS



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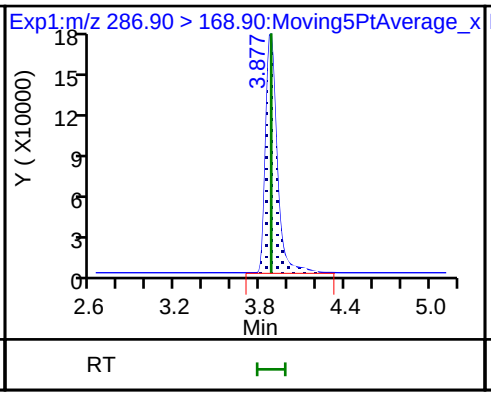

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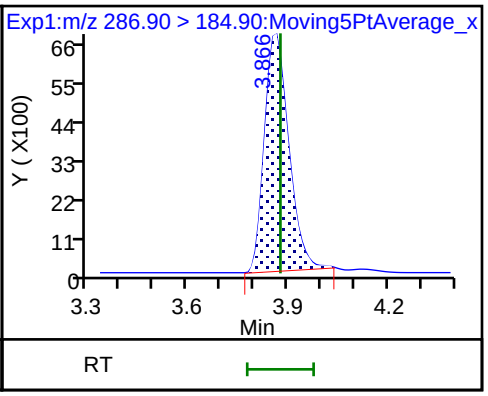

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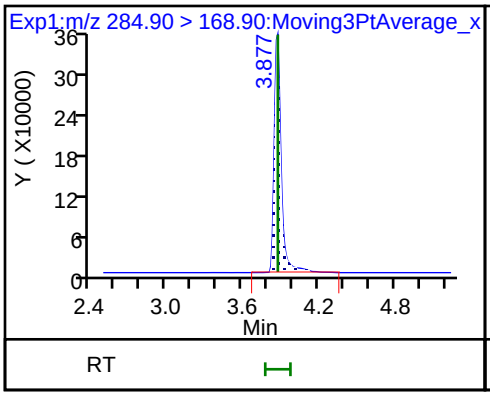

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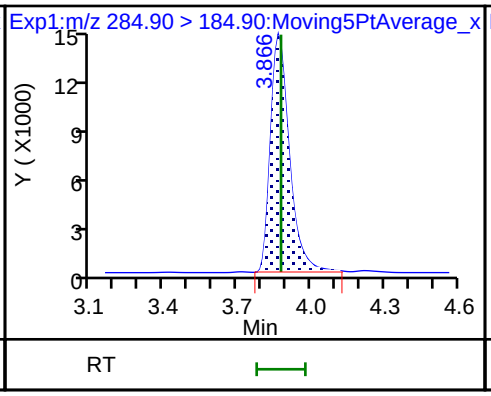

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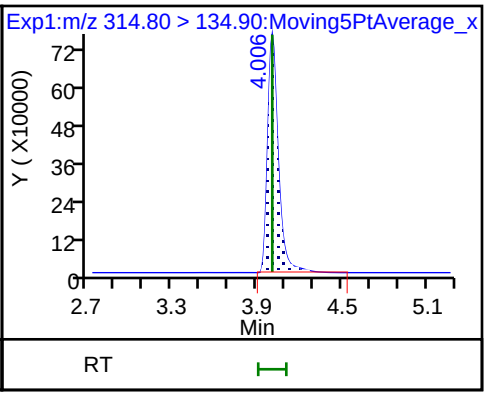
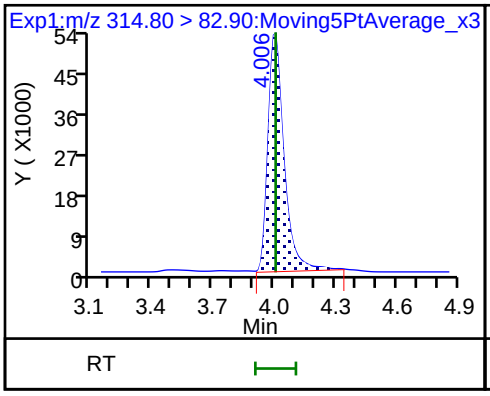


23 PFEESA



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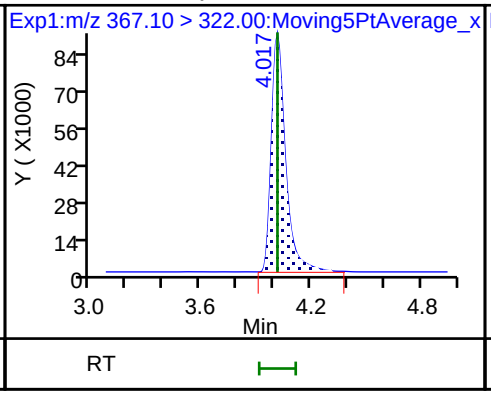

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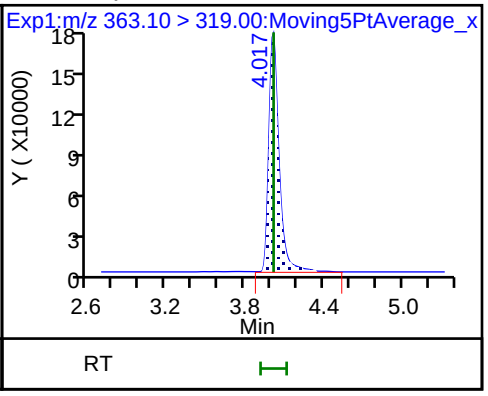

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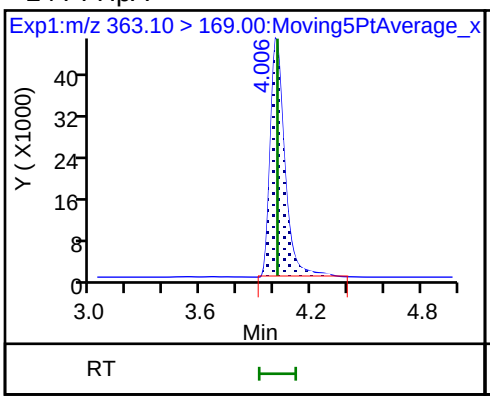
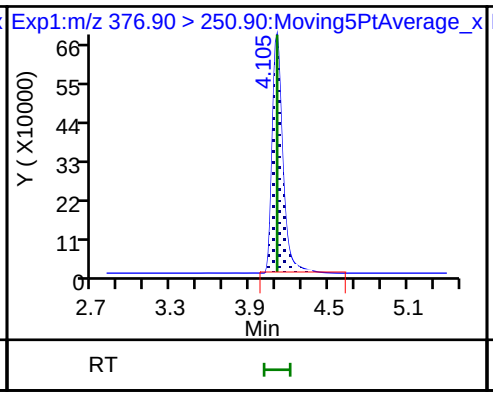


26 ADONA



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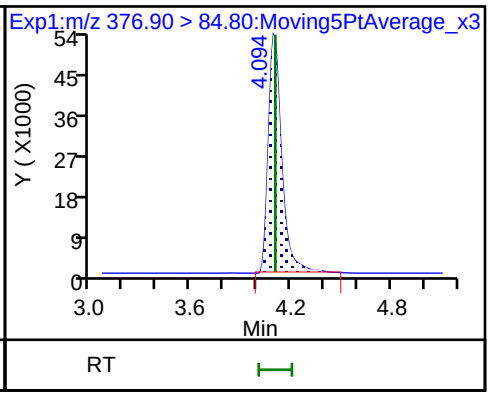

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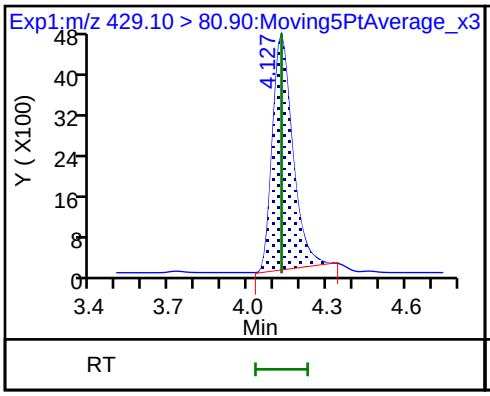

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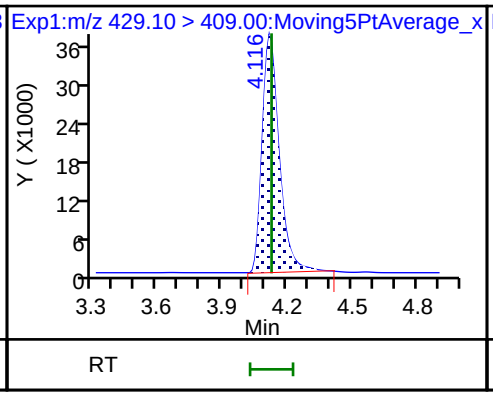

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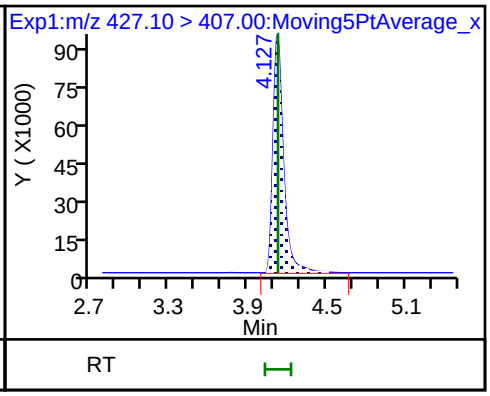

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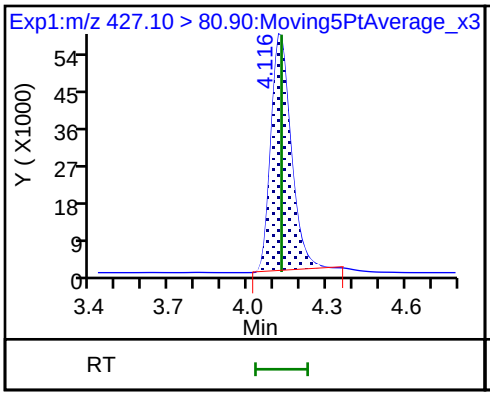

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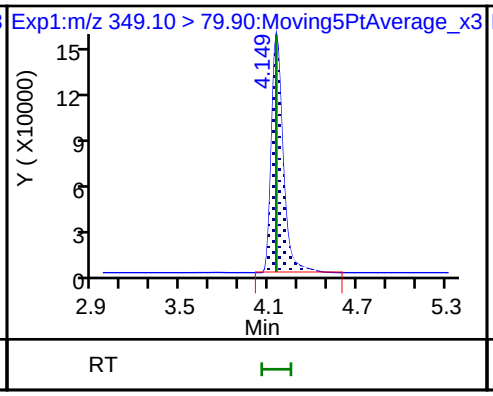

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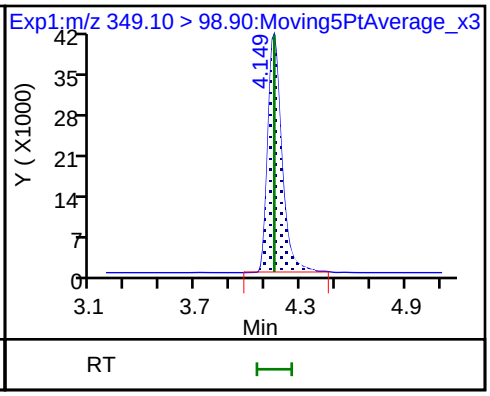

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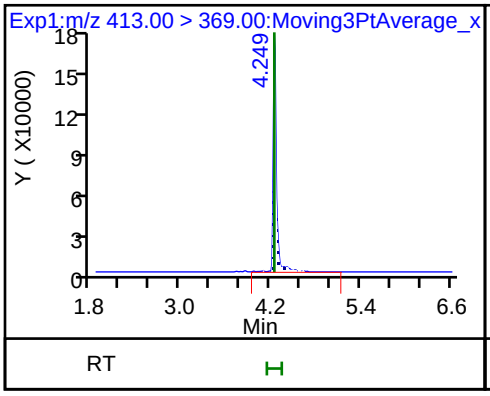

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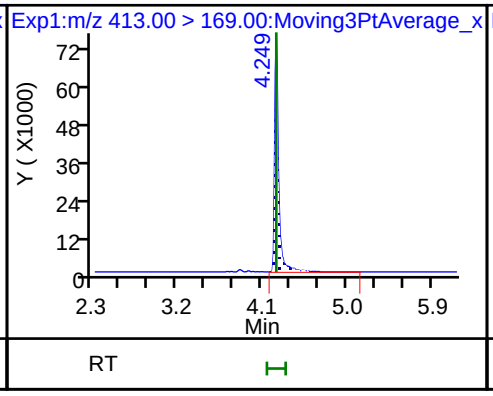

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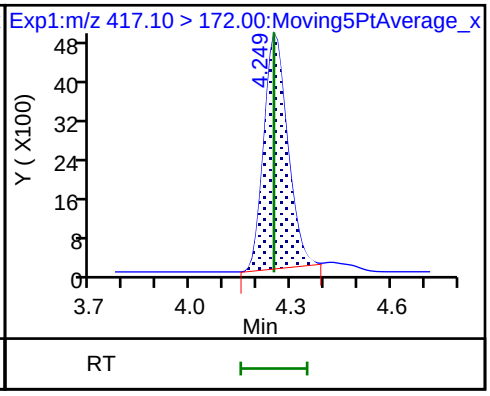

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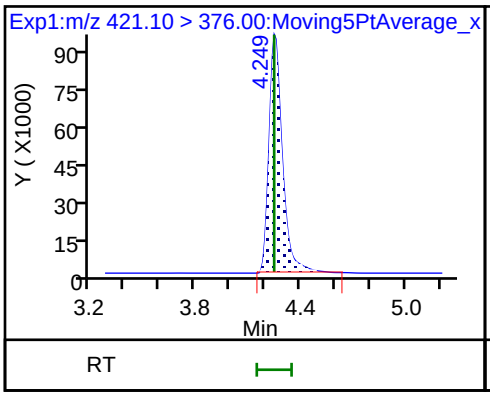

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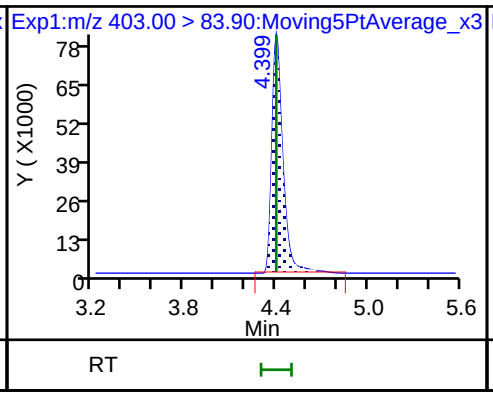

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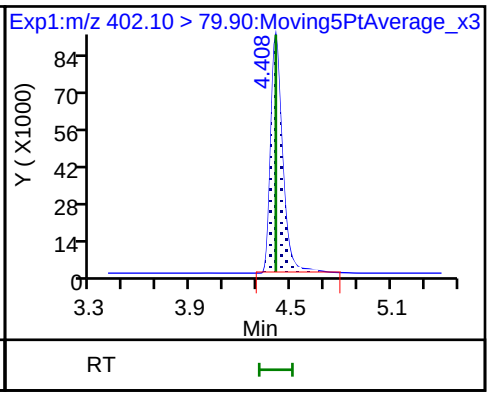

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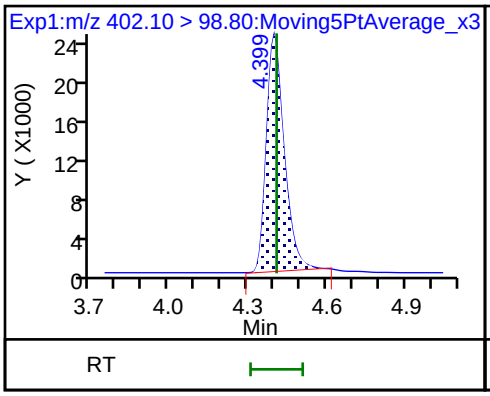

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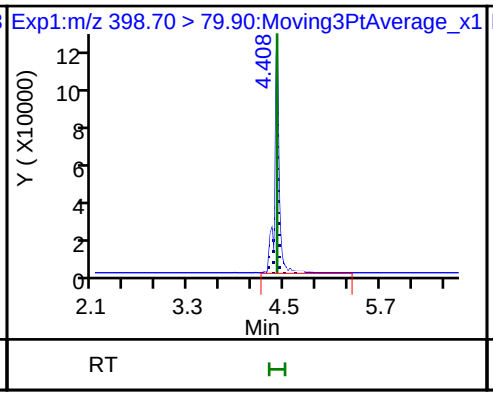

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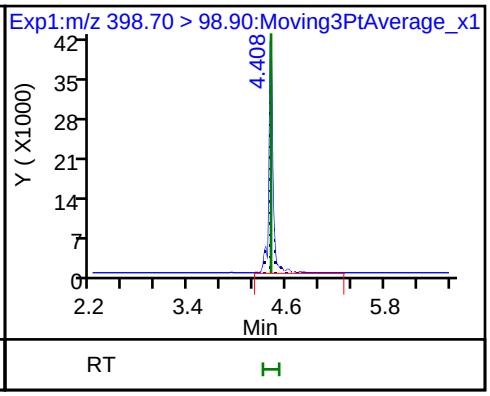

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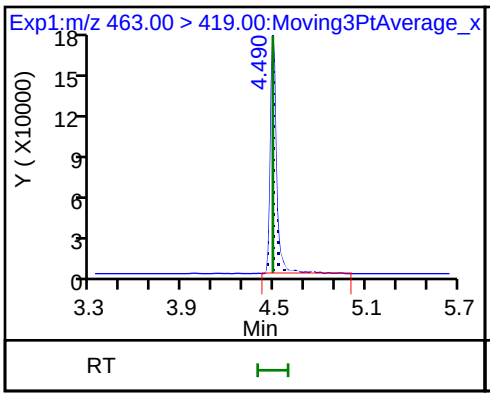

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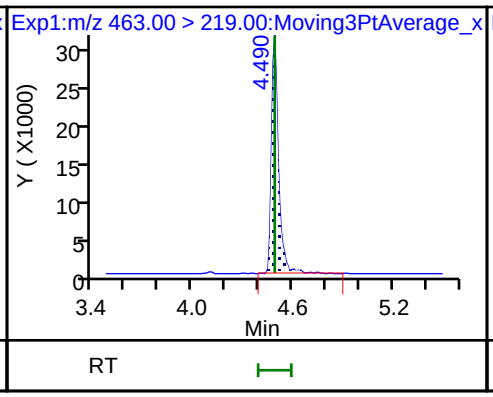

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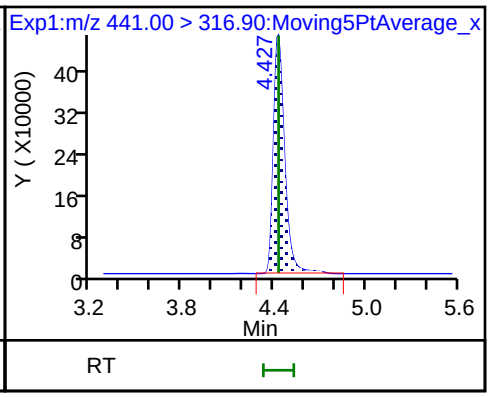

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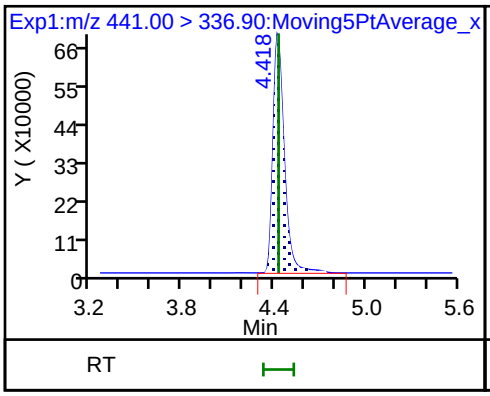

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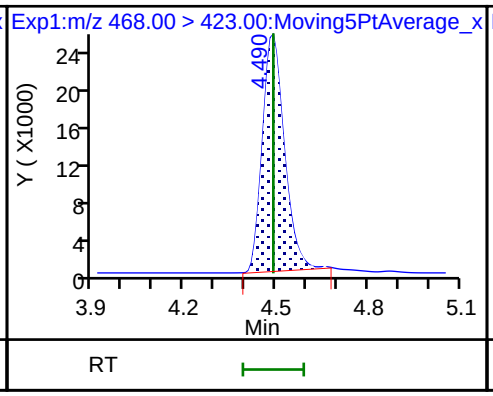

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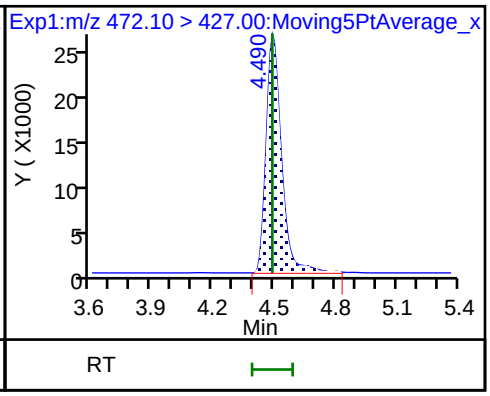

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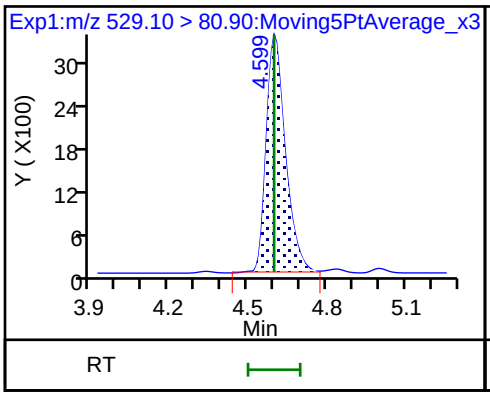

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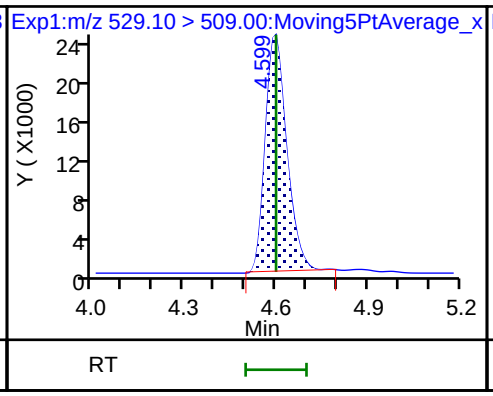

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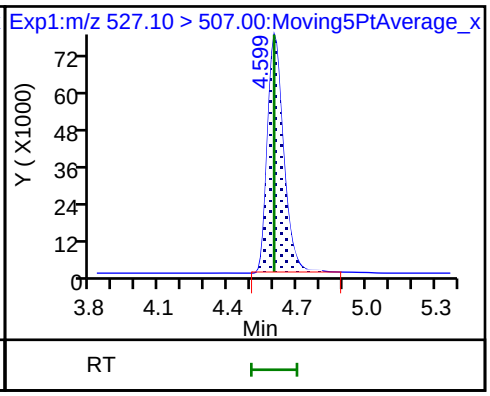

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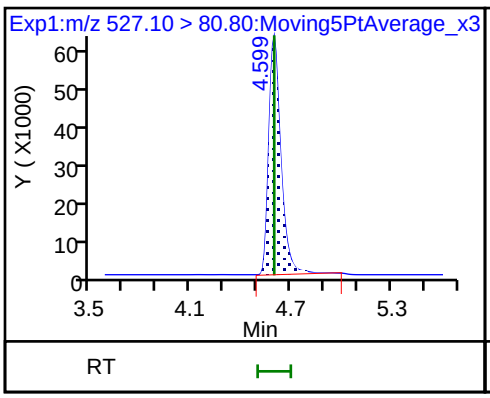

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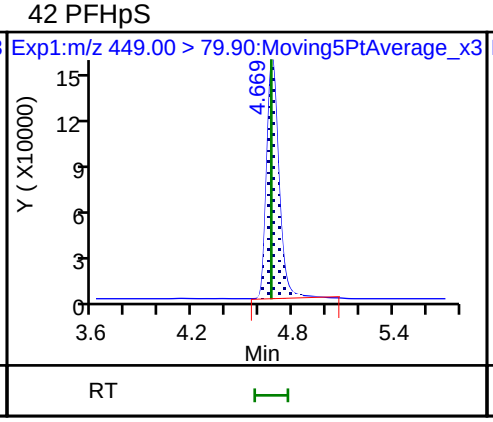

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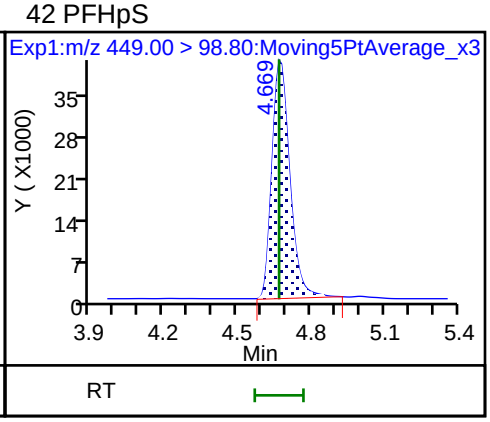
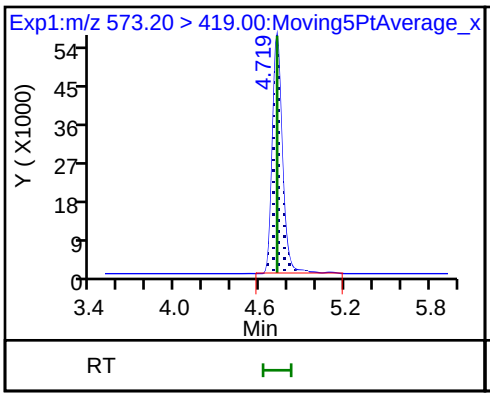


D 44 d3-NMeFOSAA



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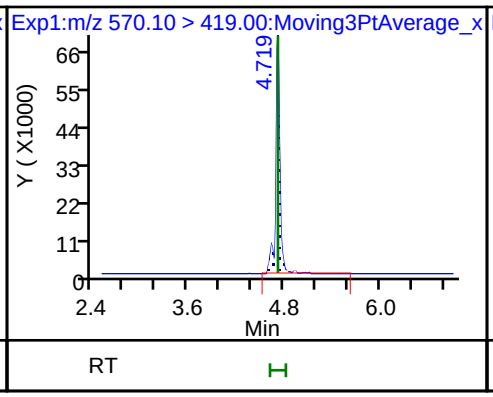

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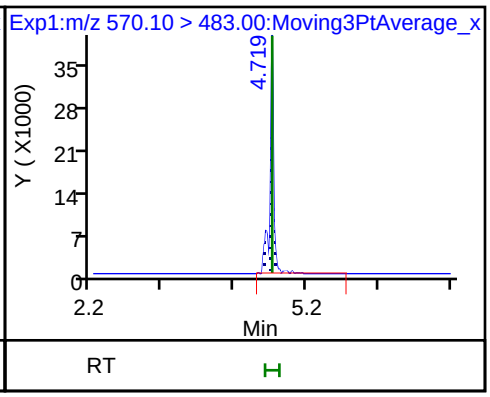

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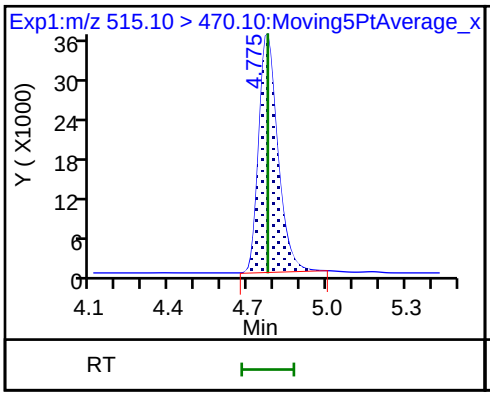

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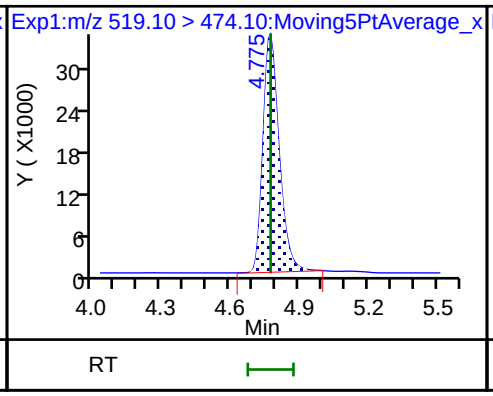

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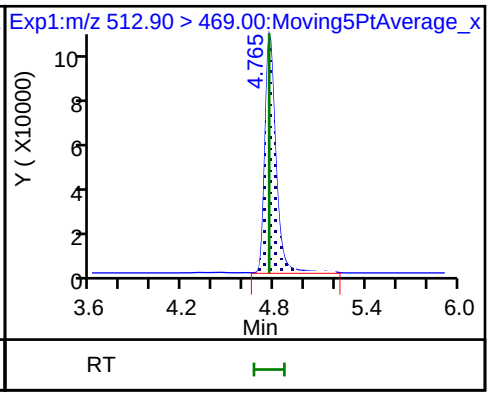

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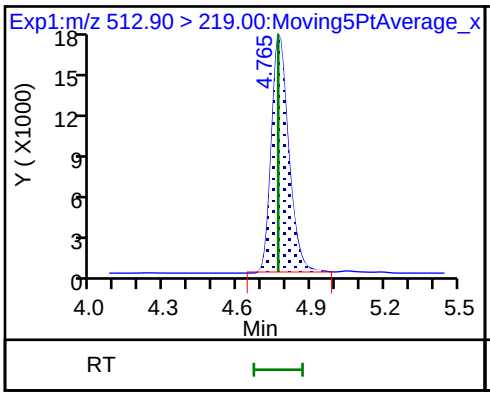

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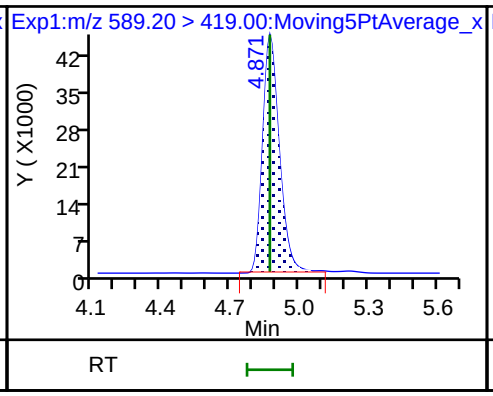

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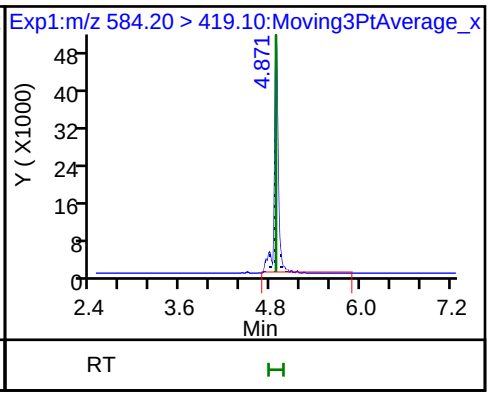

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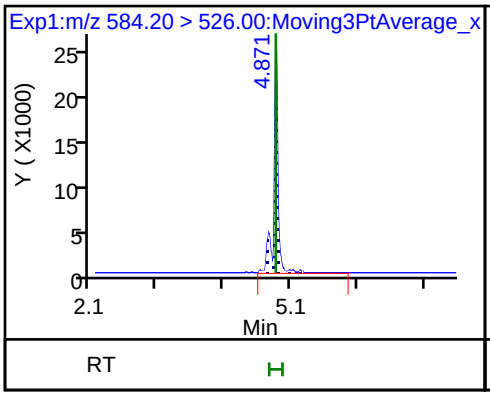

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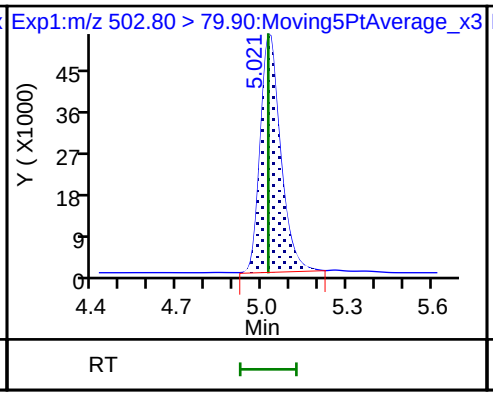

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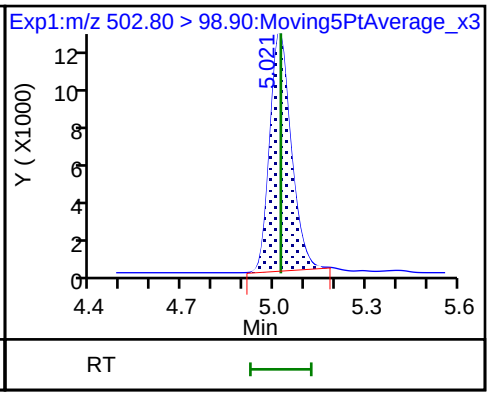

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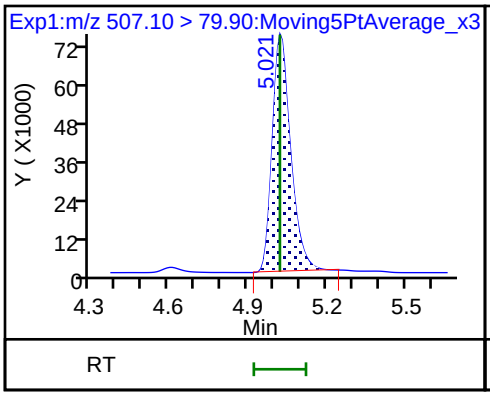

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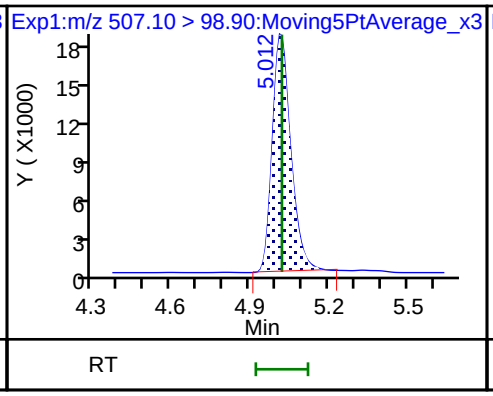

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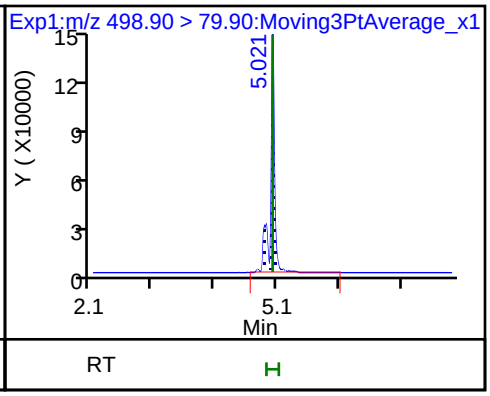

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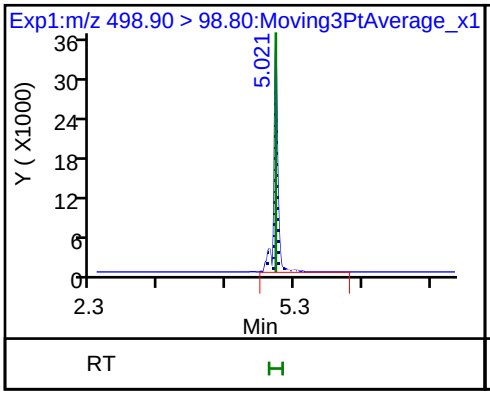

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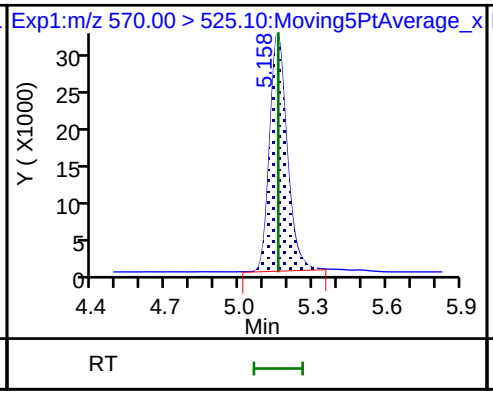

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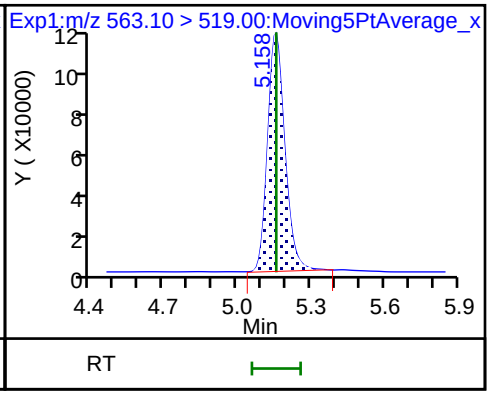

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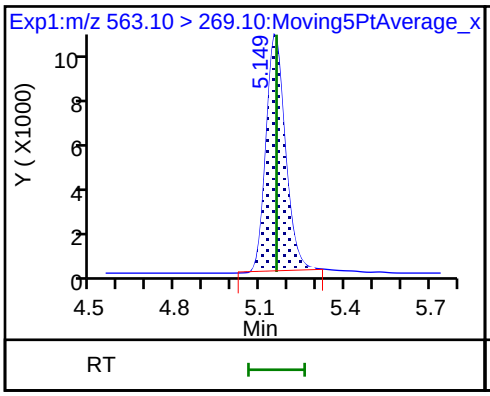
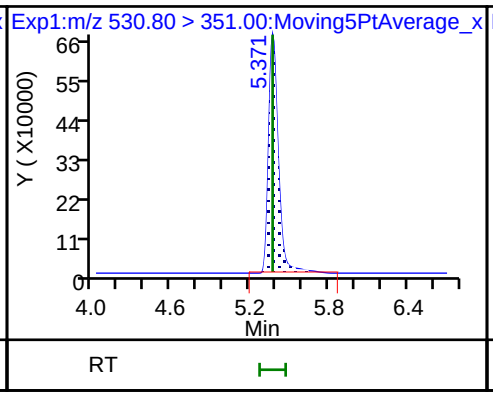
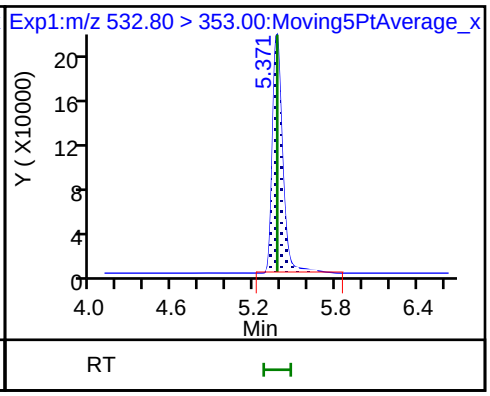


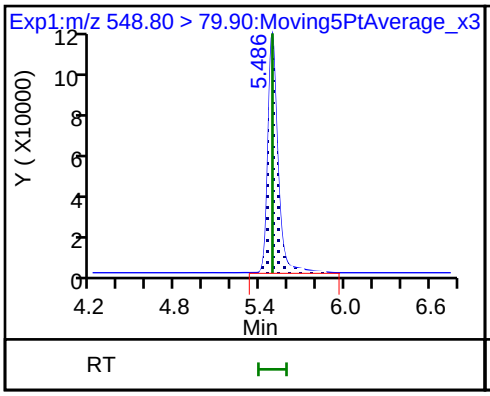
55 9ClFOS



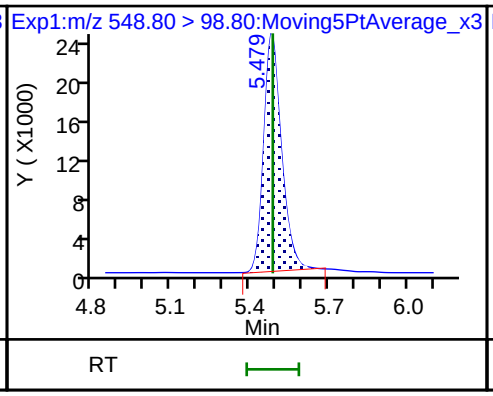
55 9ClFOS



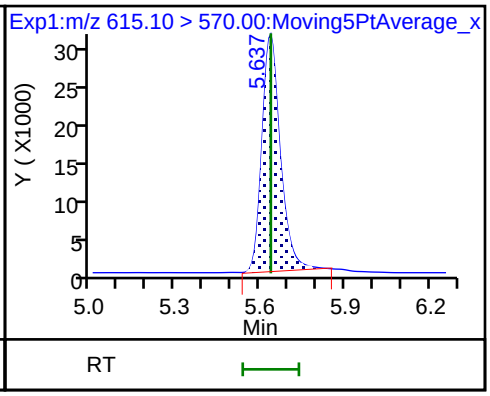
56 PFNS



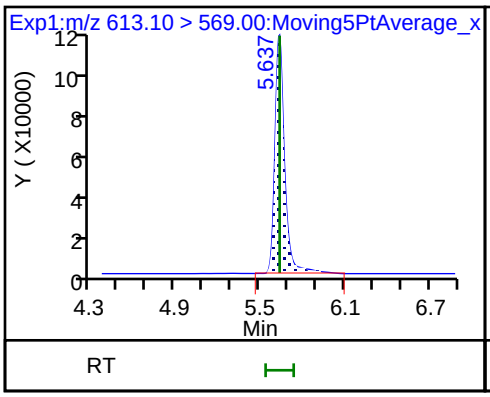
56 PFNS



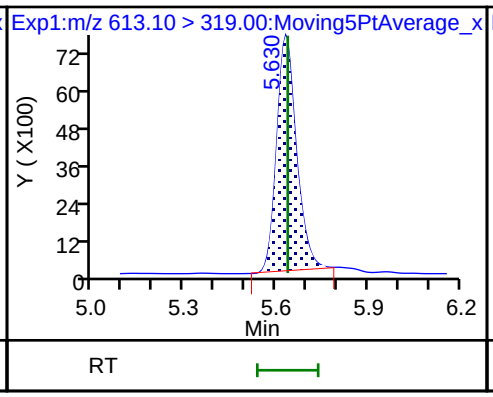
D 58 PFDoDA



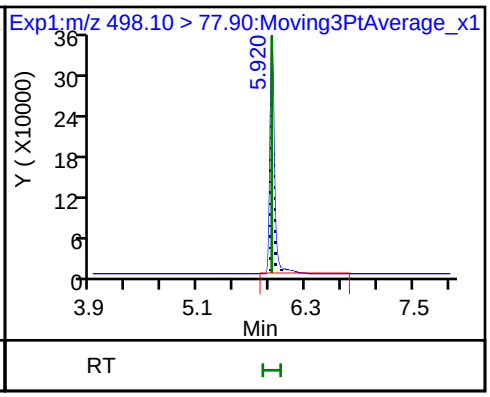
57 PFDoA



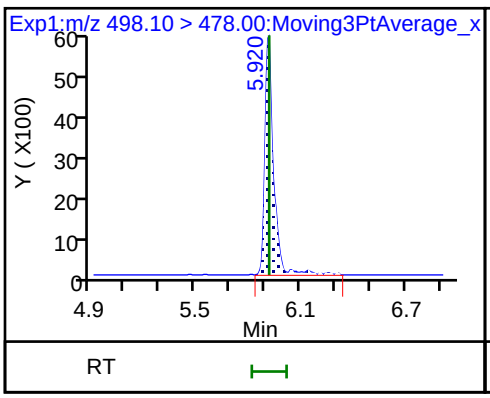
57 PFDoA



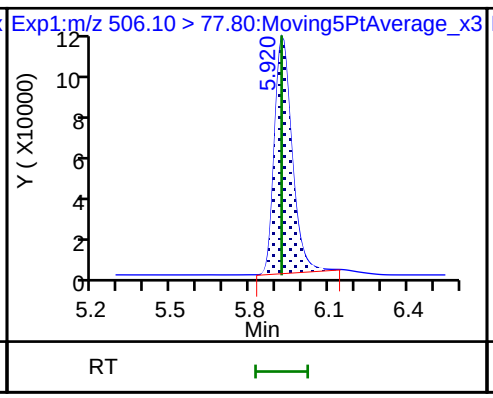
60 PFOSA



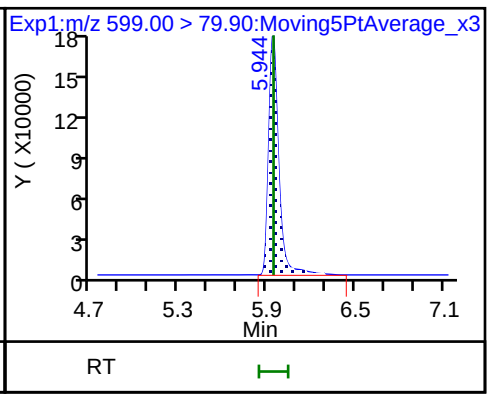
60 PFOSA



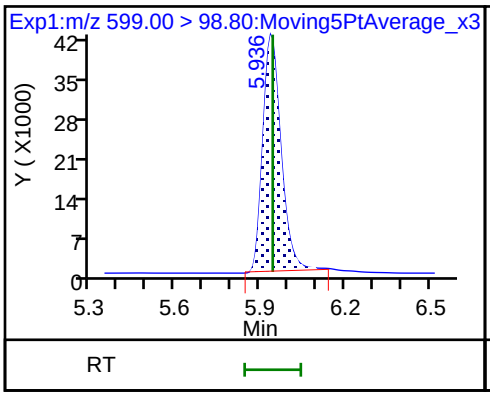
D 59 13C8 FOSA



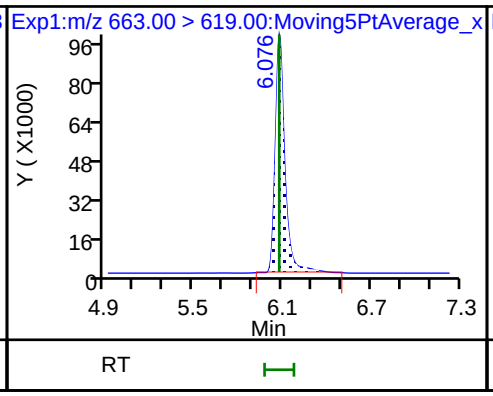
61 PFDS



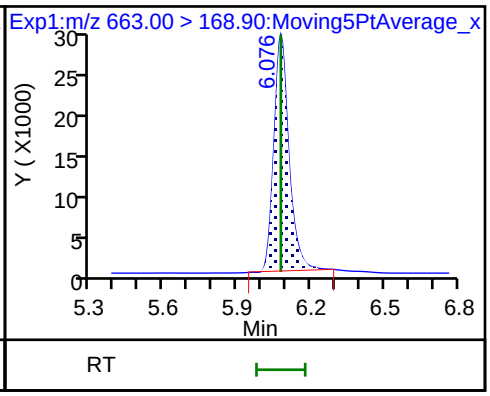
61 PFDS



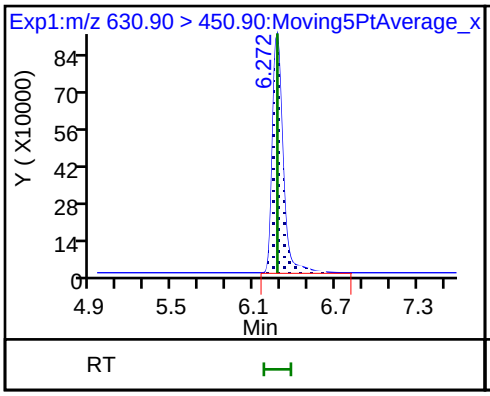
62 PFTrDA



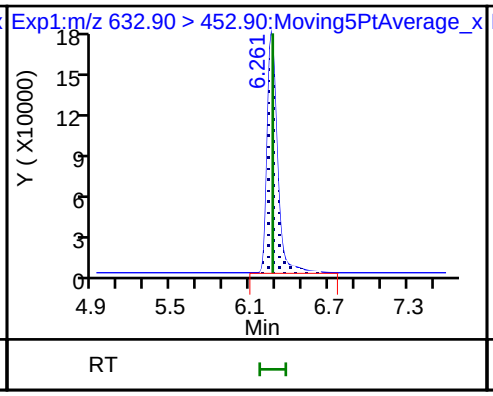
62 PFTrDA



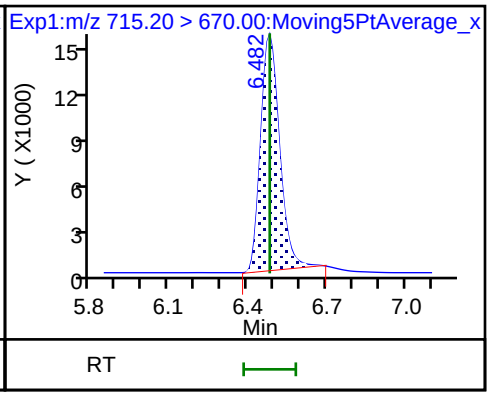
63 11ClFOS



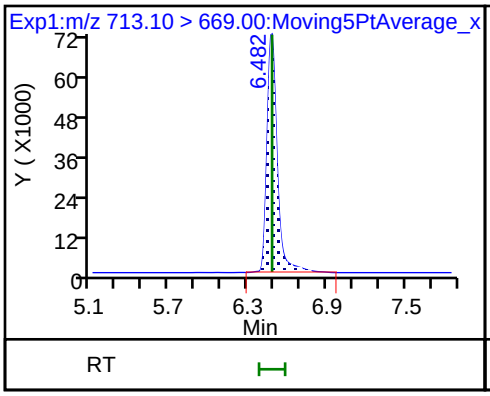
63 11ClFOS



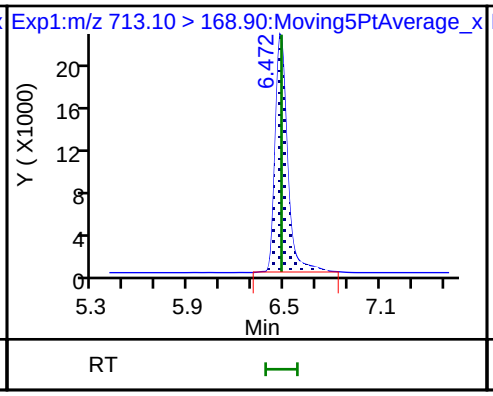
D 65 13C2 PFTeDA



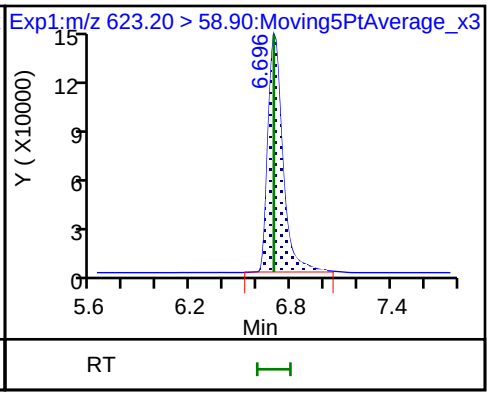
64 PFTeDA



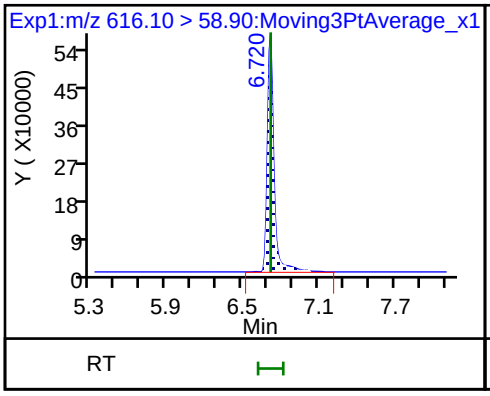
64 PFTeDA



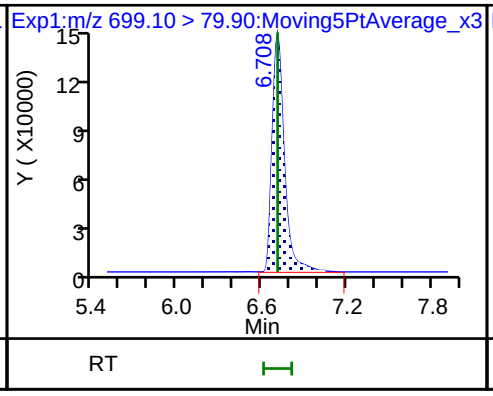
D 67 d7-N-Me-FOSE



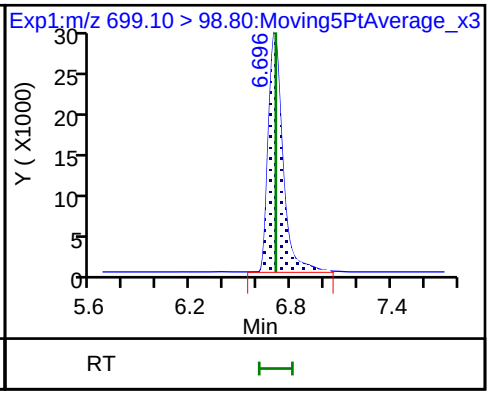
68 N-MeFOSE-M



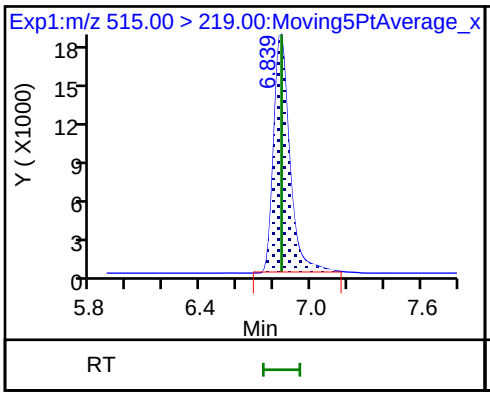
66 PFDoS



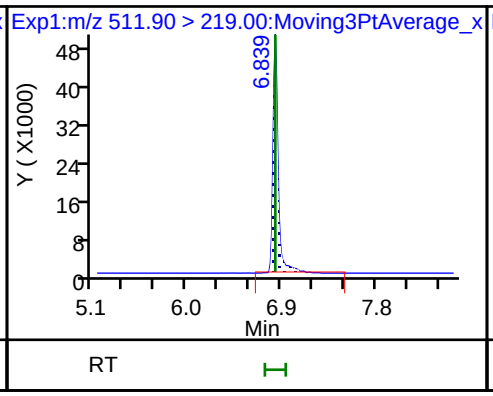
66 PFDoS



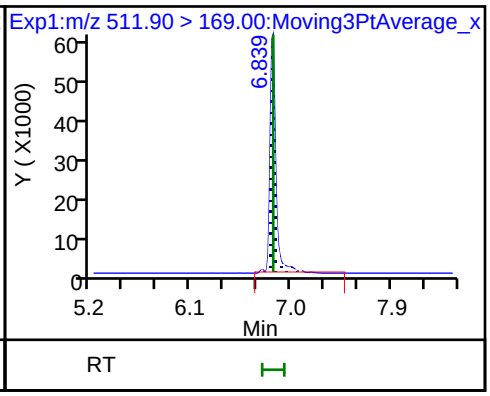
D 69 d3-NMePFOSA



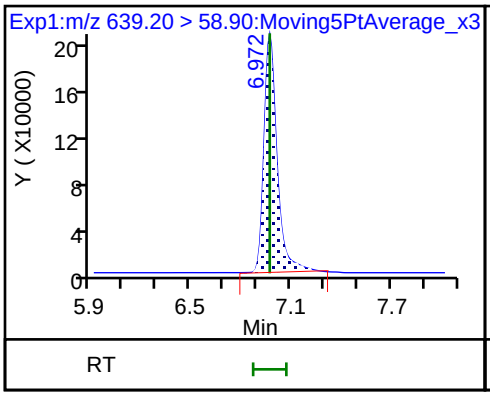
70 NMeFOSA



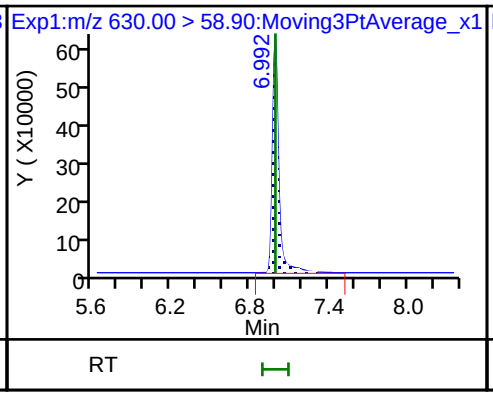
70 NMeFOSA



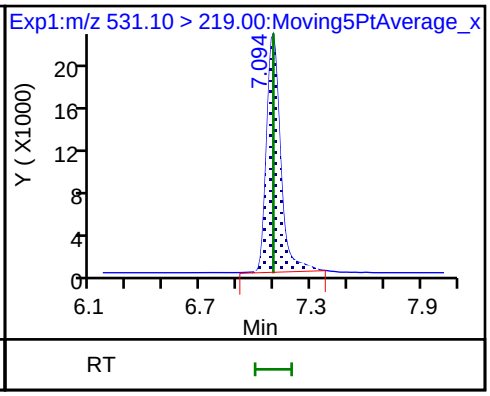
D 71 d9-N-EtFOSE



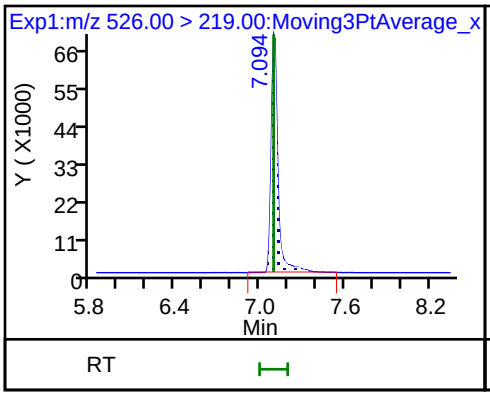
72 N-EtFOSE-M



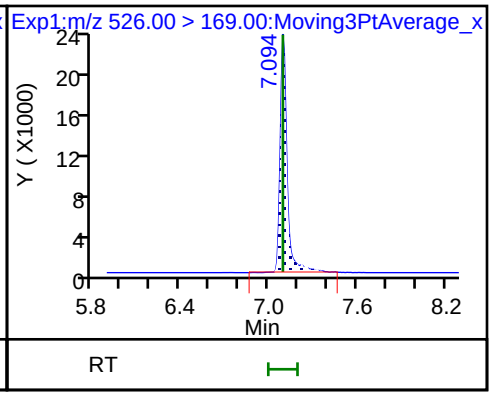
D 73 d5-NEtPFOSA



74 N-EtFOSA-M



74 N-EtFOSA-M



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-06.d
Lims ID: IC CAL 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 05-Aug-2023 10:19:57 ALS Bottle#: 20007 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: IC CAL 6
Misc. Info.: Plate: 1 Rack: 1 410-0090708-006
Operator ID: US19_USR_INS20263 Instrument ID: 30729
Sublist: chrom-PFAS_30729_1633*sub4

Method: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\PFAS_30729_1633.m
Limit Group: LC - 1633 ICAL
Last Update: 05-Aug-2023 12:08:25 Calib Date: 05-Aug-2023 11:25:28
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-11.d

Column 1 : Det: EXP1
Process Host: CTX1666

First Level Reviewer: UCD3 Date: 05-Aug-2023 11:13:35
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4-PFBA										
216.80 > 171.90	2.925	2.939	-0.014	0.997	1189514	10.4		104	70603	
* 3 13C3PFBA										
216.00 > 172.00	2.932	2.939	-0.007		704131	5.00			1536	
1 PFBA										
212.80 > 168.90	2.925	2.939	-0.014	1.000	5384826	54.2		108	90258	
5 3:3 FTCA										
241.00 > 177.00	3.155	3.163	-0.008	0.919	415129	65.8	Target=1.07	105	28094	
241.00 > 117.00	3.155	3.163	-0.008	0.919	379569		1.09(0.54-1.61)	105	9120	
4 PFMPA										
229.00 > 84.90	3.155	3.163	-0.008	0.919	3090628	24.5		98.0	210548	
6 PFPA										
263.00 > 219.00	3.435	3.442	-0.007	1.000	3215863	25.5	Target=1147.20	102	146494	
263.00 > 68.90	3.435	3.442	-0.007	1.000	2611		1231.66(573.60-1720.80)	102	155	
D 7 13C5 PFPeA										
268.30 > 223.00	3.435	3.452	-0.017	0.918	347945	4.80		96.1	21536	
8 PFMBA										
279.00 > 85.10	3.548	3.556	-0.008	1.033	2504516	24.7		98.9	155062	
D 10 13C2-4:2FTS										
329.10 > 80.90	3.627	3.636	-0.009	0.826	56288	4.77	Target=0.30	102	2630	
329.10 > 309.00	3.615	3.636	-0.021	0.823	251983		0.22(0.15-0.45)	102	15077	
9 4:2FTS										
327.10 > 307.00	3.627	3.636	-0.009	1.000	1675065	52.1	Target=1.45	111	101362	
327.10 > 80.90	3.627	3.636	-0.009	1.000	1085696		1.54(0.72-2.17)	111	64978	
12 NFDHA										
295.00 > 201.00	3.719	3.728	-0.009	0.995	295205	26.8	Target=2.02	107	19435	
295.00 > 84.90	3.719	3.728	-0.009	0.995	154453		1.91(1.01-3.03)	107	10192	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
13 PFHxA										
313.00 > 269.00	3.740	3.749	-0.009	1.000	1185519	13.9	Target=12.56	111	55950	
313.00 > 118.90	3.740	3.749	-0.009	1.000	91596		12.94(6.28-18.83)	111	6079	
D 14 13C5 PFHxA										
318.00 > 273.00	3.740	3.759	-0.019	1.000	39321	2.23	Target=14.90	89.3	2713	
318.00 > 120.30	3.740	3.759	-0.019	1.000	3878		10.14(7.45-22.34)	89.3	247	
* 15 13C2 PFHxA										
315.10 > 270.00	3.740	3.759	-0.019		251995	2.50	Target=218.11		12452	
315.10 > 119.40	3.729	3.759	-0.030		1411		178.59(109.05-327.16)		107	
16 5:3 FTCA										
341.00 > 237.10	3.845	3.843	0.002	1.028	8467575	335.0	Target=2.80	107	505547	
341.00 > 217.00	3.834	3.843	-0.009	1.025	3220797		2.63(1.40-4.19)	107	197641	
17 PFBS										
298.70 > 79.90	3.845	3.854	-0.009	1.000	1183019	11.0	Target=3.12	99.4	70940	
298.70 > 98.80	3.845	3.854	-0.009	1.000	401571		2.95(1.56-4.67)	99.4	24575	
D 18 13C3 PFBS										
302.10 > 79.90	3.845	3.866	-0.021	0.875	413724	2.48	Target=6.66	107	25517	
302.10 > 98.90	3.845	3.866	-0.021	0.875	65953		6.27(3.33-9.99)	107	4149	
D 20 13C3 HFPO-DA										
286.90 > 168.90	3.856	3.877	-0.021	1.031	1044812	9.40	Target=27.88	94.0	62408	
286.90 > 184.90	3.856	3.877	-0.021	1.031	37765		27.67(13.94-41.82)	94.0	2474	
19 HFPO-DA										
284.90 > 168.90	3.867	3.877	-0.010	1.003	3693366	51.6	Target=18.47	103	11427	
284.90 > 184.90	3.856	3.877	-0.021	1.000	196882		18.76(9.23-27.70)	103	12047	
23 PFEESA										
314.80 > 134.90	3.997	4.006	-0.009	1.069	11281947	25.0	Target=14.12	112	720635	
314.80 > 82.90	3.986	4.006	-0.020	1.066	731662		15.42(7.06-21.18)	112	32616	
D 25 13C4 PFHpA										
367.10 > 322.00	4.007	4.017	-0.010	1.072	482038	2.28		91.3	29066	
24 PFHpA										
363.10 > 319.00	4.007	4.017	-0.010	1.000	2351805	12.9	Target=3.63	103	107224	
363.10 > 169.00	3.997	4.017	-0.020	0.997	683534		3.44(1.81-5.44)	103	42780	
26 ADONA										
376.90 > 250.90	4.095	4.105	-0.010	1.062	9813087	48.6	Target=12.35	103	440073	
376.90 > 84.80	4.084	4.105	-0.021	1.059	834943		11.75(6.17-18.52)	103	50347	
27 6:2FTS										
427.10 > 407.00	4.118	4.127	-0.009	1.000	1386923	47.4	Target=1.66	99.7	82450	
427.10 > 80.90	4.107	4.127	-0.020	0.997	868971		1.60(0.83-2.50)	99.7	50793	
D 29 13C2-6:2FTS										
429.10 > 80.90	4.118	4.127	-0.009	0.938	30504	5.01	Target=0.15	105	1866	
429.10 > 409.00	4.107	4.127	-0.020	0.935	230381		0.13(0.07-0.22)	105	13386	
28 PFPeS										
349.10 > 79.90	4.140	4.149	-0.009	0.941	2363549	12.3	Target=3.80	105	142904	
349.10 > 98.90	4.140	4.149	-0.009	0.941	652818		3.62(1.90-5.70)	105	39755	
32 PFOA										
413.00 > 369.00	4.240	4.249	-0.009	1.000	1468678	13.9	Target=2.19	111	1566	
413.00 > 169.00	4.240	4.249	-0.009	1.000	604327		2.43(1.09-3.28)	111	971	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 30 13C4 PFOA										
417.10 > 172.00	4.240	4.249	-0.009		26205	2.50			1804	
D 31 13C8 PFOA										
421.10 > 376.00	4.240	4.249	-0.009	1.000	534673	2.15		85.9	33195	
* 35 18O2 PFHxS										
403.00 > 83.90	4.392	4.399	-0.007		380470	2.37			19698	
D 36 13C3 PFHxS										
402.10 > 79.90	4.401	4.408	-0.007	1.002	462133	2.55	Target=3.87	108	23517	
402.10 > 98.80	4.392	4.408	-0.016	1.000	116569		3.96(1.93-5.80)	108	7926	
34 PFHxS										
398.70 > 79.90	4.392	4.408	-0.016	0.998	1217725	11.9	Target=3.41	104	6010	
398.70 > 98.90	4.392	4.408	-0.016	0.998	351735		3.46(1.70-5.11)	104	1805	
33 7:3 FTCA										
441.00 > 316.90	4.420	4.427	-0.007	1.182	5923764	330.5	Target=0.66	106	230936	
441.00 > 336.90	4.411	4.427	-0.016	1.179	8930813		0.66(0.33-1.00)	106	349941	
D 38 13C9 PFNA										
472.10 > 427.00	4.481	4.490	-0.009	1.002	140240	1.29		103	9186	
39 PFNA										
463.00 > 419.00	4.481	4.490	-0.009	1.000	1125767	11.9	Target=4.66	95.6	2434	
463.00 > 219.00	4.481	4.490	-0.009	1.000	233844		4.81(2.33-7.00)	95.6	1487	
* 37 13C5 PFNA										
468.00 > 423.00	4.471	4.490	-0.019		129013	1.25			6572	
D 41 13C2-8:2FTS										
529.10 > 80.90	4.600	4.599	0.001	1.047	16199	4.98	Target=0.14	104	1125	
529.10 > 509.00	4.590	4.599	-0.009	1.045	165408		0.10(0.07-0.21)	104	8350	
40 8:2FTS										
527.10 > 507.00	4.590	4.599	-0.009	0.998	857007	45.2	Target=1.18	94.2	55430	
527.10 > 80.80	4.590	4.599	-0.009	0.998	800995		1.07(0.59-1.77)	94.2	26651	
42 PFHpS										
449.00 > 79.90	4.660	4.669	-0.009	0.930	1931453	11.5	Target=3.61	96.7	122522	
449.00 > 98.80	4.660	4.669	-0.009	0.930	513654		3.76(1.80-5.41)	96.7	20603	
D 44 d3-NMeFOSAA										
573.20 > 419.00	4.710	4.719	-0.009	0.940	280400	5.34		107	11711	
43 NMeFOSAA										
570.10 > 419.00	4.710	4.719	-0.009	1.000	645293	12.3	Target=1.96	98.2	337	
570.10 > 483.00	4.710	4.719	-0.009	1.000	344445		1.87(0.98-2.93)	98.2	84965	
45 PFDA										
512.90 > 469.00	4.757	4.765	-0.008	1.000	1303578	12.4	Target=6.39	98.9	53650	
512.90 > 219.00	4.757	4.765	-0.008	1.000	243202		5.36(3.20-9.59)	98.9	16752	
D 47 13C6 PFDA										
519.10 > 474.10	4.757	4.775	-0.018	1.000	185348	1.33		106	12531	
* 46 13C2 PFDA										
515.10 > 470.10	4.757	4.775	-0.018		173052	1.25			11732	
D 49 d5-NEtFOSAA										
589.20 > 419.00	4.863	4.871	-0.008	0.970	237335	4.86		97.1	11819	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
48 NEtFOSAA										
584.20 > 419.10	4.863	4.871	-0.008	1.000	486525	13.7	Target=1.68	110	517	
584.20 > 526.00	4.863	4.871	-0.008	1.000	293202		1.66(0.84-2.52)	110	858	
* 52 13C4 PFOS										
502.80 > 79.90	5.013	5.021	-0.008		252883	2.40	Target=3.81		13007	
502.80 > 98.90	5.004	5.021	-0.017		70824		3.57(1.91-5.72)		4954	
D 51 13C8 PFOS										
507.10 > 79.90	5.013	5.021	-0.008	1.000	397697	2.64	Target=4.02	110	5899	
507.10 > 98.90	5.004	5.021	-0.017	0.998	94035		4.23(2.01-6.03)	110	4895	
50 PFOS										
498.90 > 79.90	5.013	5.021	-0.008	1.000	1650720	10.8	Target=4.56	93.0	11597	
498.90 > 98.80	5.004	5.021	-0.017	0.998	381872		4.32(2.28-6.83)	93.0	588	
53 PFUnA										
563.10 > 519.00	5.142	5.158	-0.016	1.000	1588095	13.2	Target=11.35	105	106139	
563.10 > 269.10	5.142	5.158	-0.016	1.000	150117		10.58(5.67-17.02)	105	7904	
D 54 13C7 PFUnA										
570.00 > 525.10	5.142	5.158	-0.016	1.081	170392	1.33		106	8792	
55 9ClFOS										
530.80 > 351.00	5.362	5.371	-0.009	1.391	8699280	46.7	Target=3.22	100.0	562054	
532.80 > 353.00	5.353	5.371	-0.018	1.388	2826735		3.08(1.61-4.83)	100.0	185807	
56 PFNS										
548.80 > 79.90	5.472	5.486	-0.014	1.092	1329567	11.8	Target=4.35	98.3	89657	
548.80 > 98.80	5.464	5.486	-0.022	1.090	311044		4.27(2.18-6.53)	98.3	20866	
D 58 PFDoDA										
615.10 > 570.00	5.623	5.637	-0.014	1.182	148268	1.30		104	8193	
57 PFDoA										
613.10 > 569.00	5.616	5.637	-0.021	0.999	1477140	13.2	Target=16.83	106	77826	
613.10 > 319.00	5.616	5.637	-0.021	0.999	92612		15.95(8.42-25.25)	106	6700	
60 PFOSA										
498.10 > 77.90	5.912	5.920	-0.008	1.000	2893369	12.2	Target=57.83	98.0	43209	
498.10 > 478.00	5.904	5.920	-0.016	0.999	50697		57.07(28.91-86.74)	98.0	1048	
D 59 13C8 FOSA										
506.10 > 77.80	5.912	5.920	-0.008	1.179	572461	2.60		104	38971	
61 PFDS										
599.00 > 79.90	5.928	5.944	-0.016	1.183	2118624	12.0	Target=4.33	99.2	149929	
599.00 > 98.80	5.928	5.944	-0.016	1.183	493569		4.29(2.16-6.49)	99.2	34306	
62 PFTrDA										
663.00 > 619.00	6.063	6.076	-0.013	0.938	1187208	12.8	Target=3.74	102	85782	
663.00 > 168.90	6.063	6.076	-0.013	0.938	308528		3.85(1.87-5.60)	102	22396	
63 11ClFOS										
630.90 > 450.90	6.250	6.272	-0.022	1.621	12225772	49.1	Target=5.39	104	770677	
632.90 > 452.90	6.250	6.272	-0.022	1.621	2377298		5.14(2.70-8.09)	104	151806	
64 PFTeDA										
713.10 > 669.00	6.461	6.482	-0.021	1.000	996073	13.1	Target=3.33	104	62312	
713.10 > 168.90	6.461	6.482	-0.021	1.000	305081		3.26(1.66-4.99)	104	18997	
D 65 13C2 PFTeDA										
715.20 > 670.00	6.461	6.482	-0.021	1.358	83394	1.30		104	5247	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 67 d7-N-Me-FOSE										
623.20 > 58.90	6.684	6.696	-0.012	1.333	934217	25.8		103	38462	
66 PFDoS										
699.10 > 79.90	6.696	6.708	-0.012	1.336	2178961	11.8	Target=4.86	97.3	120537	
699.10 > 98.80	6.684	6.708	-0.024	1.333	455523		4.78(2.43-7.28)	97.3	25860	
68 N-MeFOSE-M										
616.10 > 58.90	6.707	6.720	-0.013	1.004	5480883	131.9		106	44682	
D 69 d3-NMePFOSA										
515.00 > 219.00	6.826	6.839	-0.013	1.362	109589	2.53		101	6062	
70 NMeFOSA										
511.90 > 219.00	6.826	6.839	-0.013	1.000	465404	13.4	Target=0.79	107	11100	
511.90 > 169.00	6.826	6.839	-0.013	1.000	596357		0.78(0.40-1.18)	107	9013	
D 71 d9-N-EtFOSE										
639.20 > 58.90	6.961	6.972	-0.011	1.389	1152493	25.9		104	34887	
72 N-EtFOSE-M										
630.00 > 58.90	6.981	6.992	-0.011	1.003	5651927	130.4		104	57354	
D 73 d5-NEtPFOSA										
531.10 > 219.00	7.073	7.094	-0.021	1.411	122448	2.64		106	5835	
74 N-EtFOSA-M										
526.00 > 219.00	7.083	7.094	-0.011	1.001	615323	13.0	Target=3.02	104	3820	
526.00 > 169.00	7.083	7.094	-0.011	1.001	202361		3.04(1.51-4.53)	104	1755	

QC Flag Legend

Processing Flags

Reagents:

PFC_STD6_1633_00010 Amount Added: 1.00 Units: mL

Report Date: 05-Aug-2023 12:08:30 Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-06.d

Injection Date: 05-Aug-2023 10:19:57 Instrument ID: 30729

Lims ID: IC CAL 6

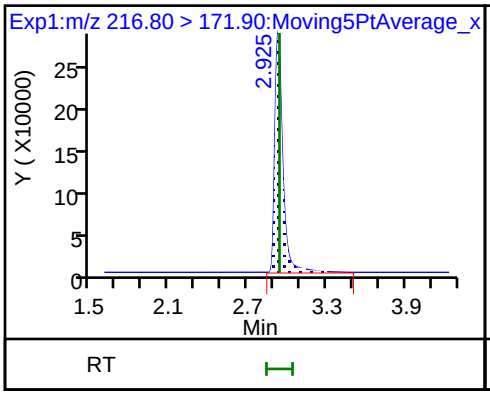
Client ID:

Operator ID: US19_USR_INS20263 ALS Bottle#: 20007 Worklist Smp#: 6

Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: PFAS_30729_1633 Limit Group: LC - 1633 ICAL

D 2 13C4-PFBA



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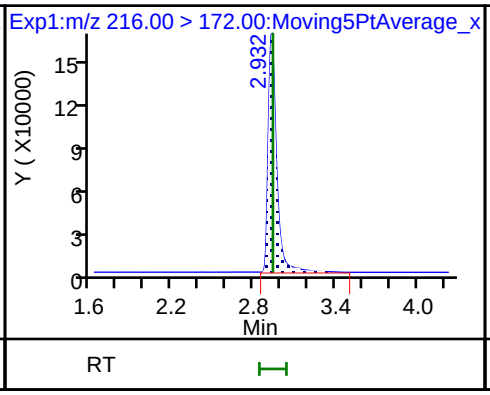

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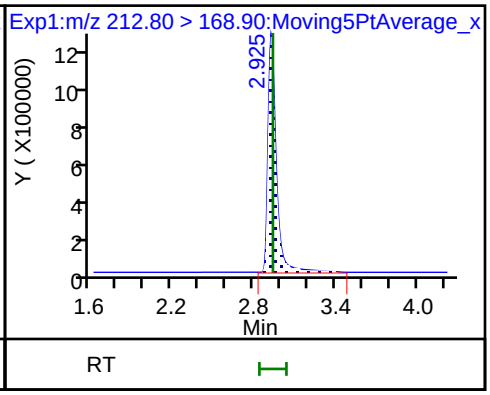

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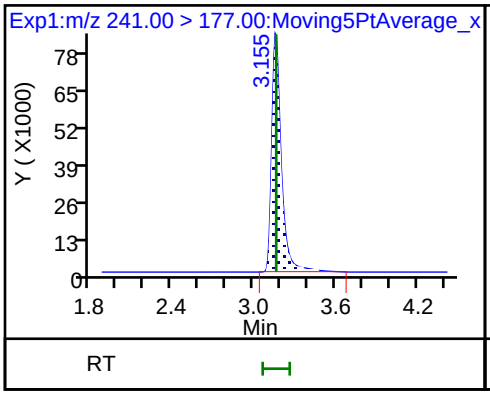

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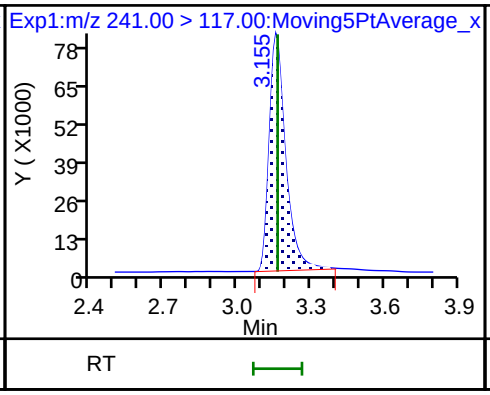

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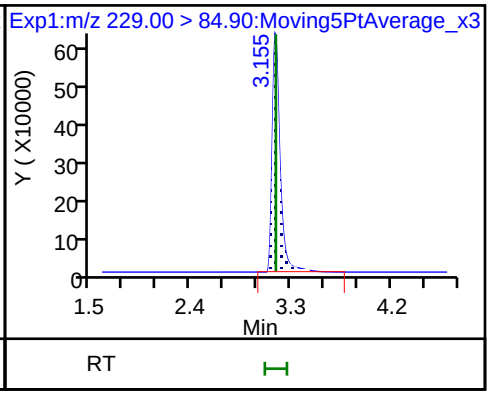

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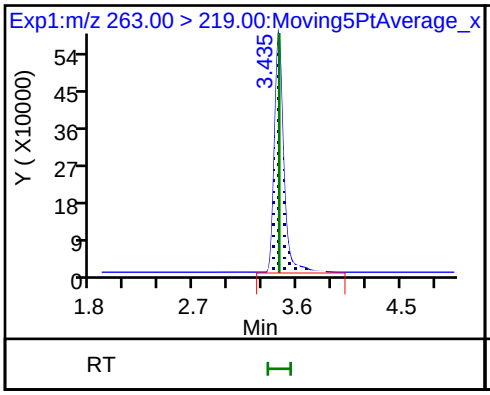

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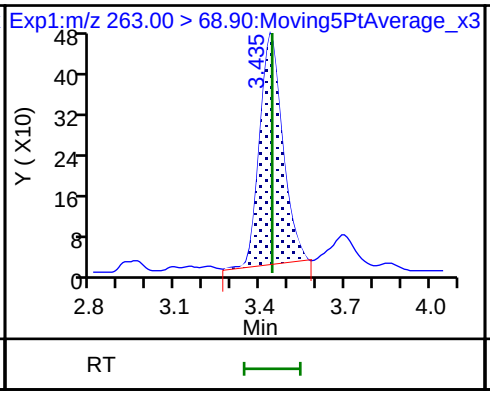

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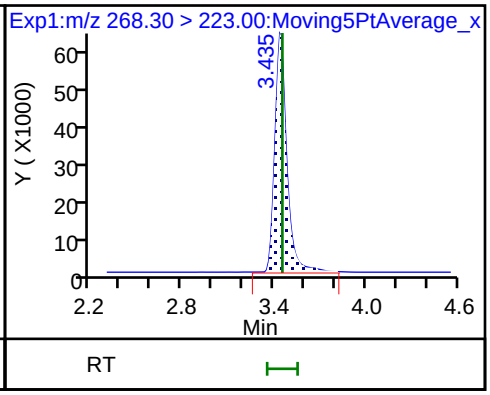

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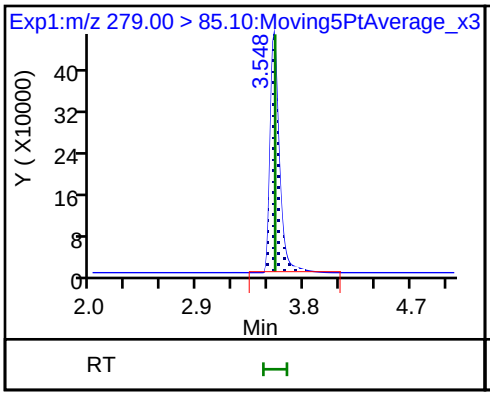

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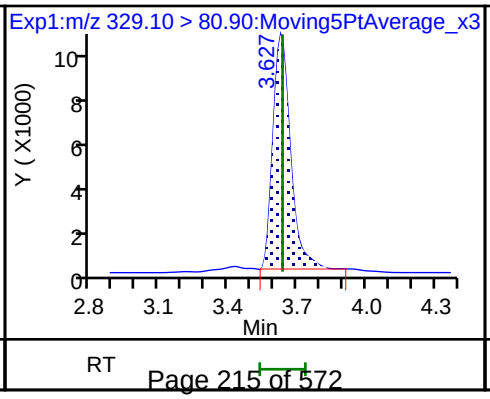

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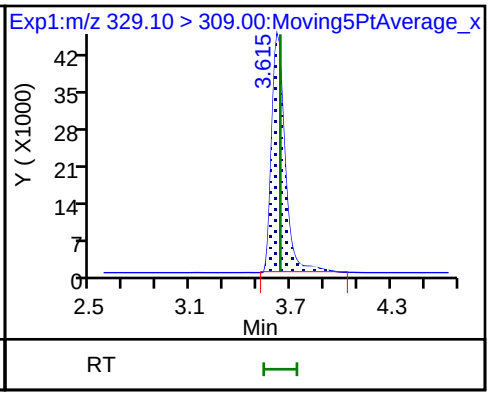

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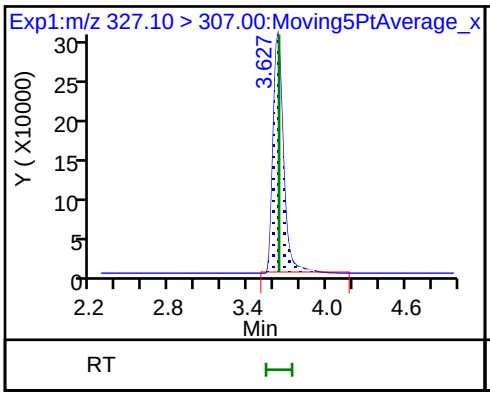

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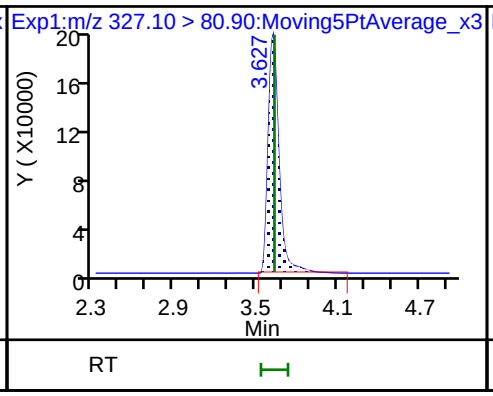

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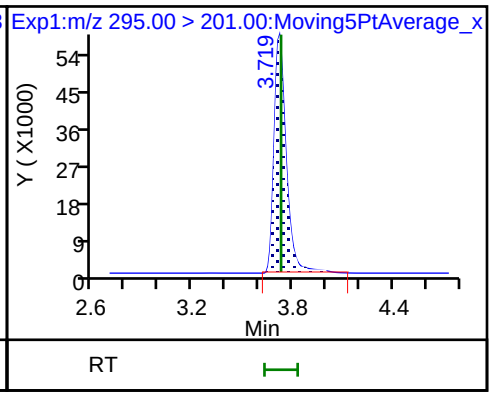

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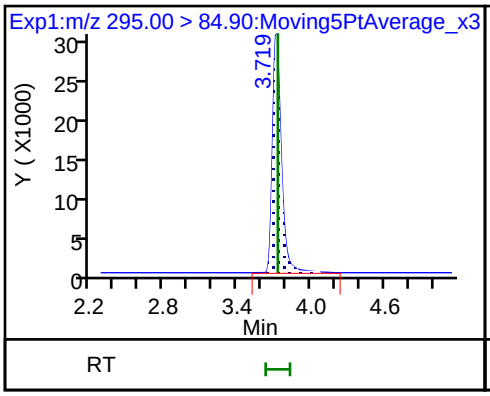

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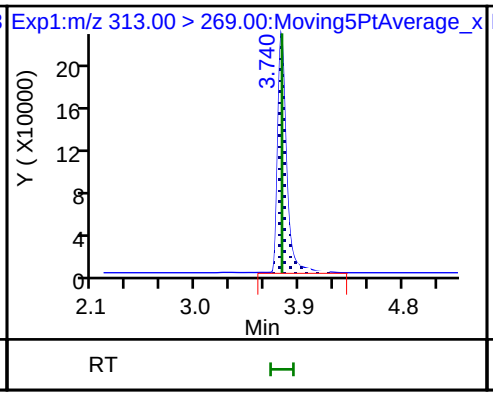

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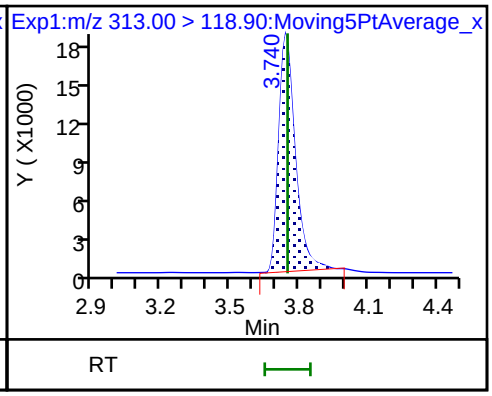

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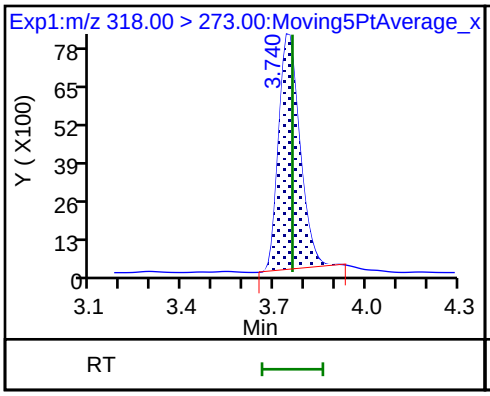

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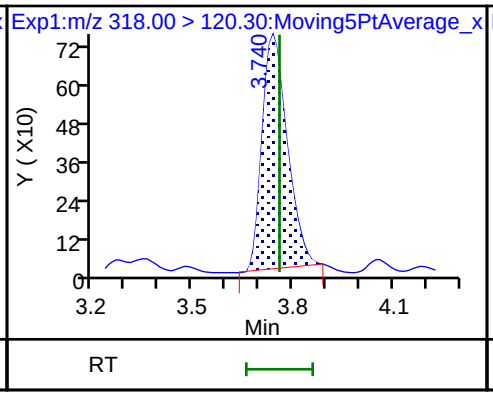

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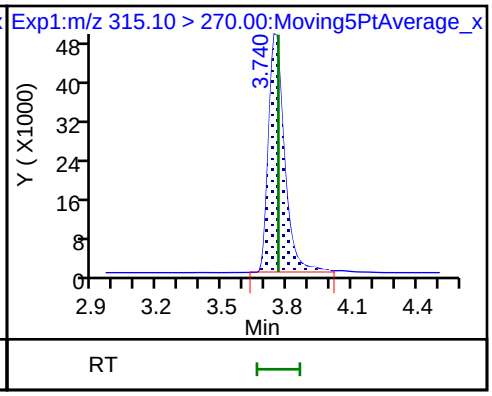

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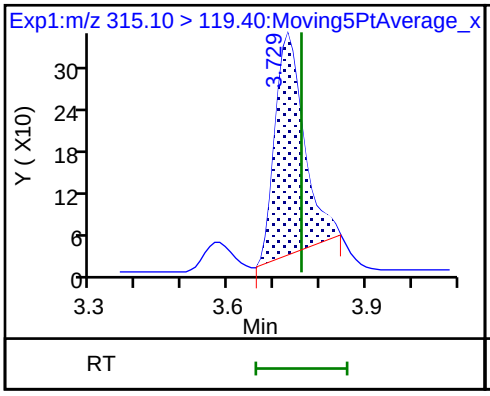

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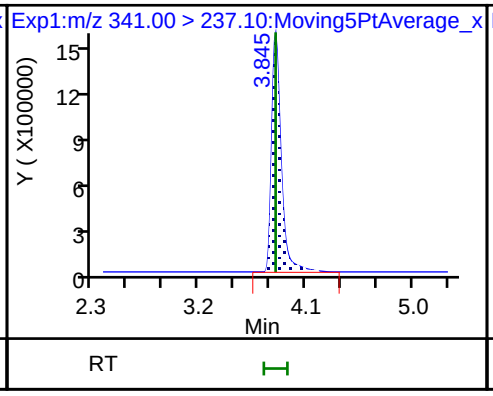

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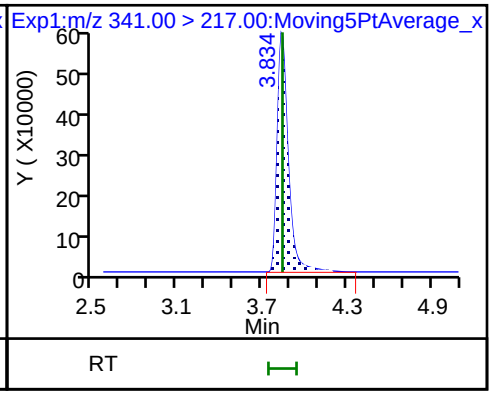

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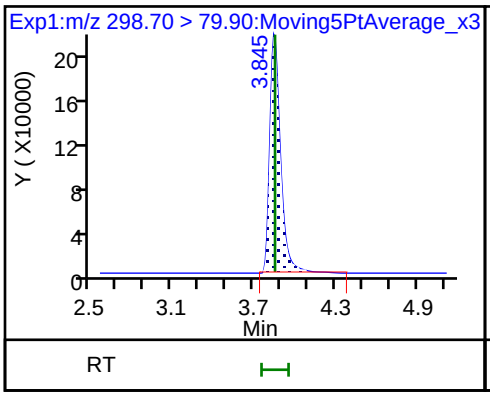

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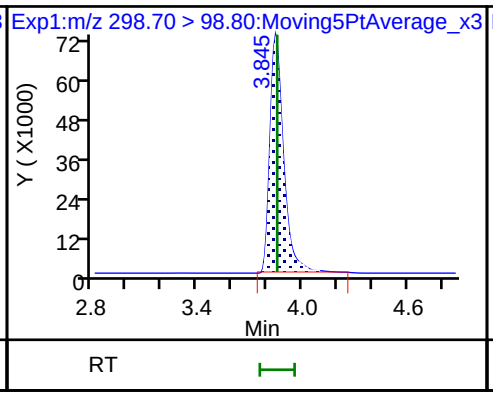

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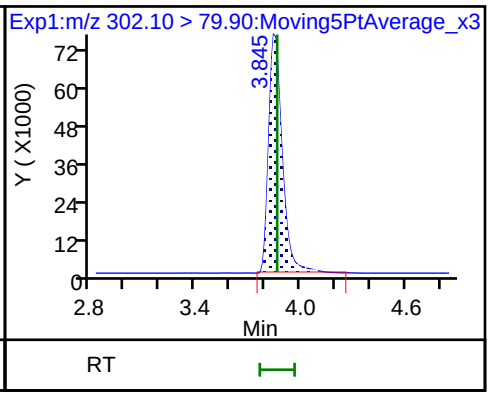

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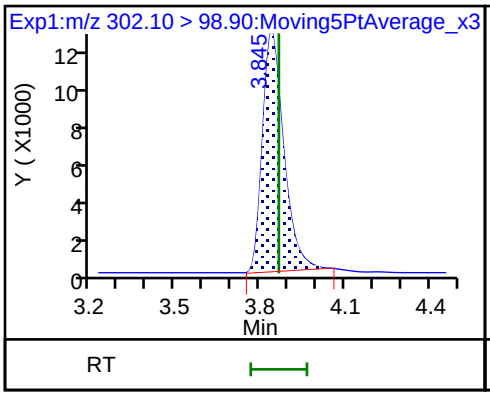

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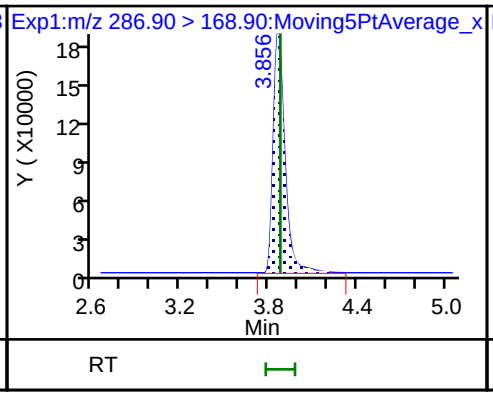

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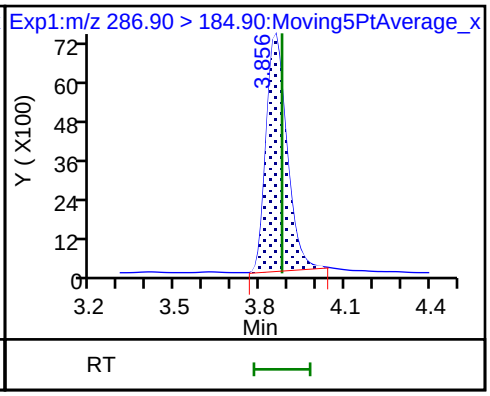

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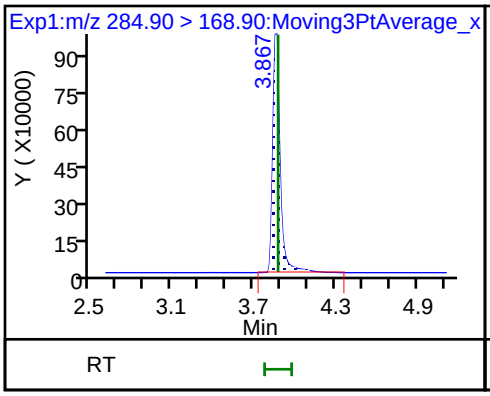

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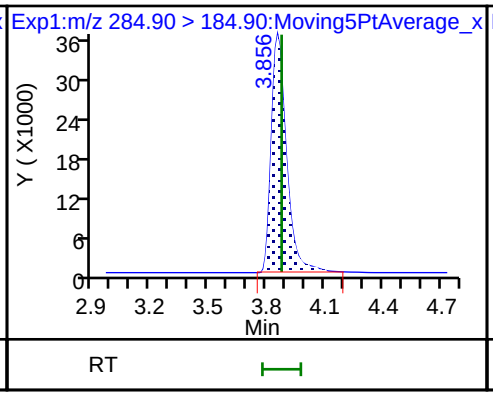
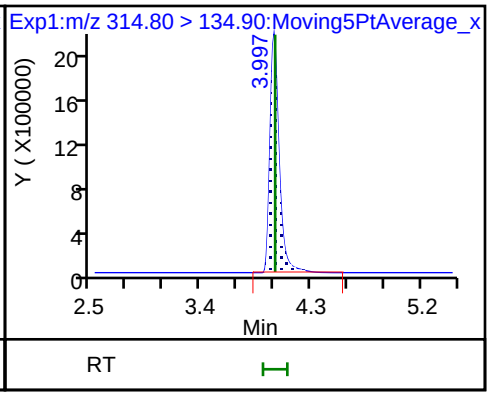


23 PFEESA



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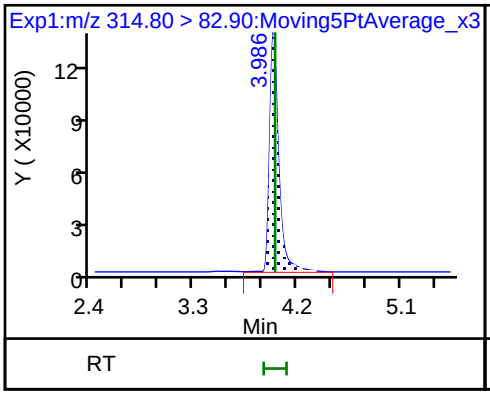

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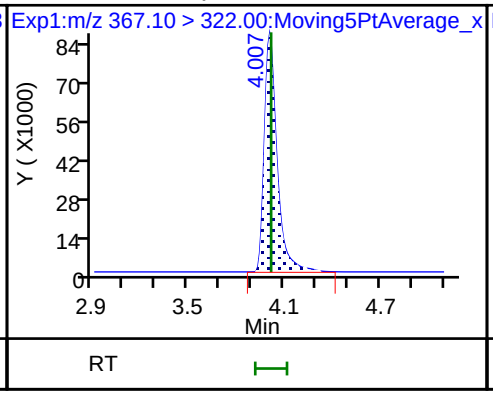

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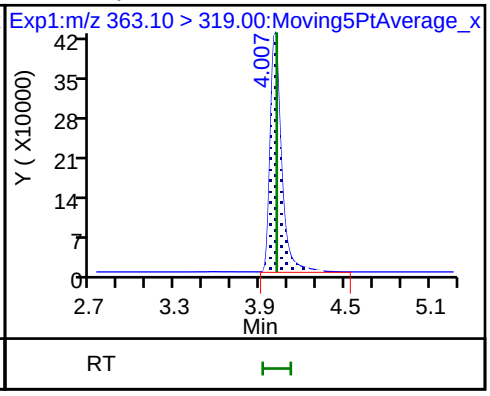

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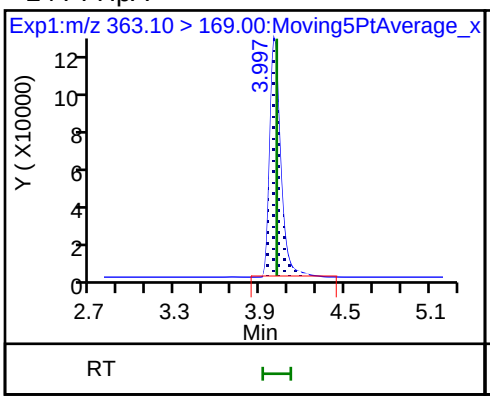

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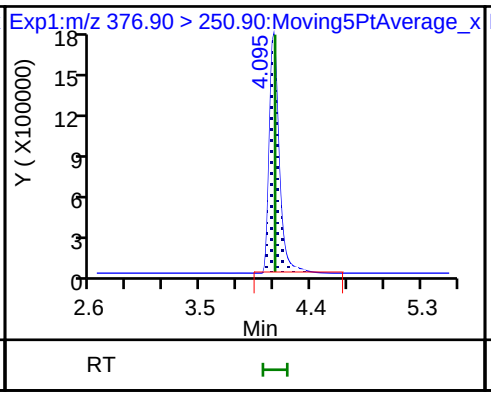

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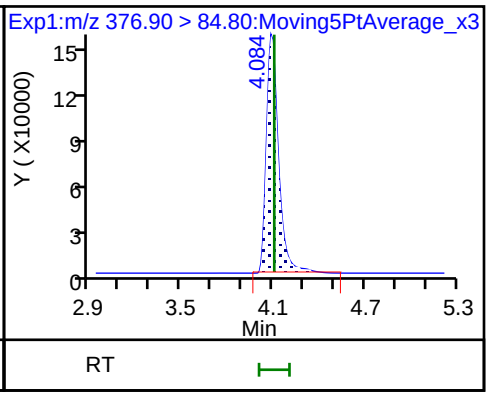

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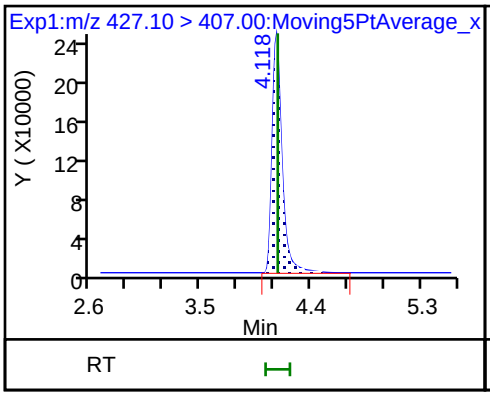

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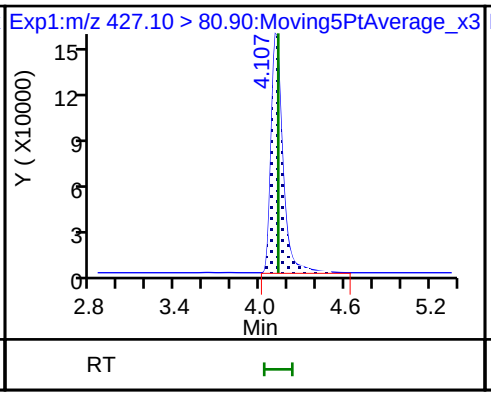
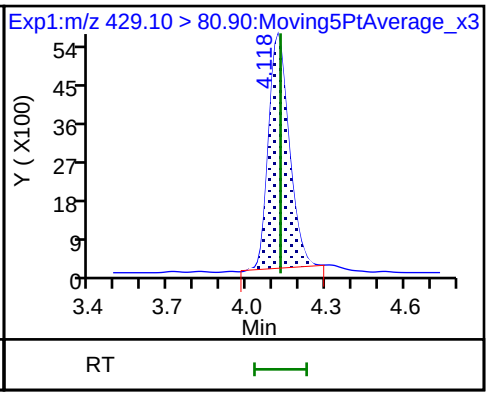


D 29 13C2-6:2FTS



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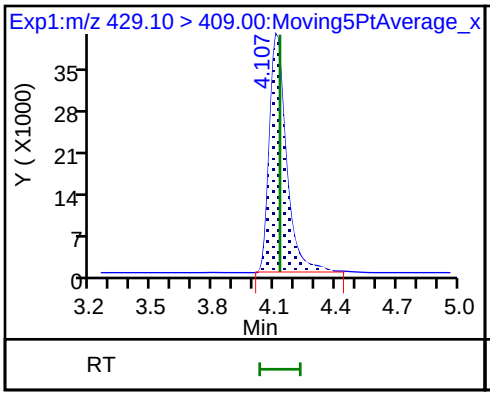
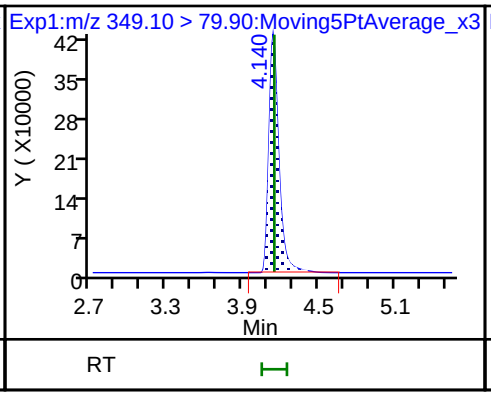


28 PFPeS



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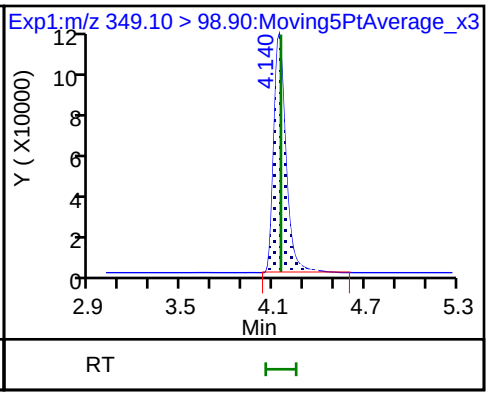

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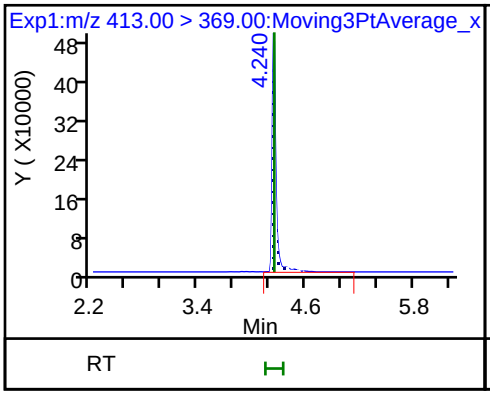

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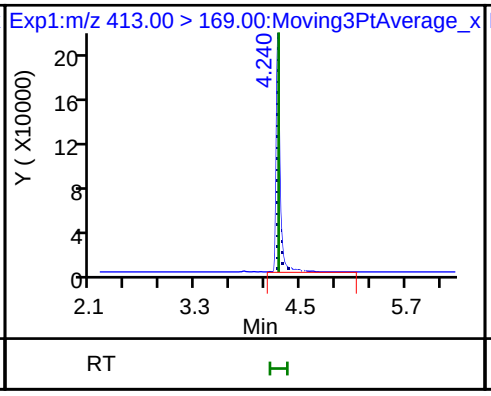

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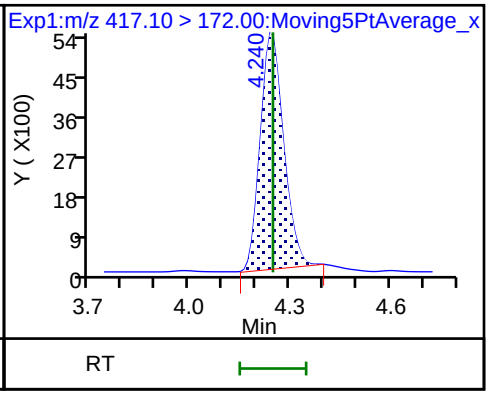

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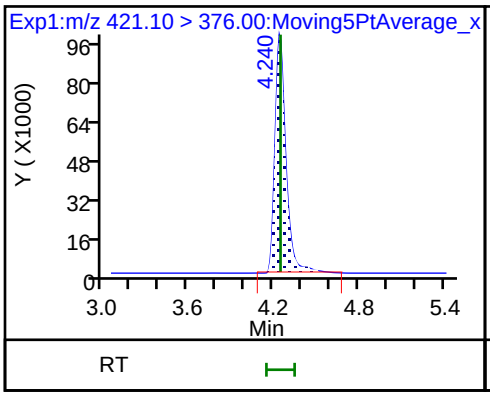

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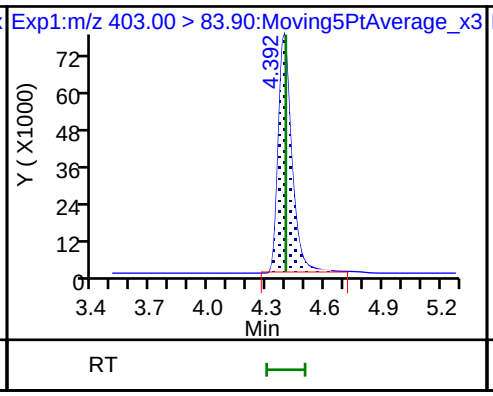

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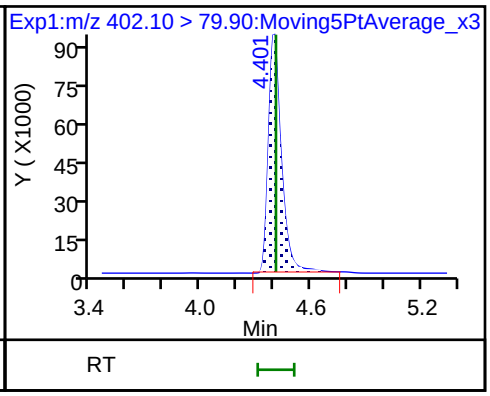

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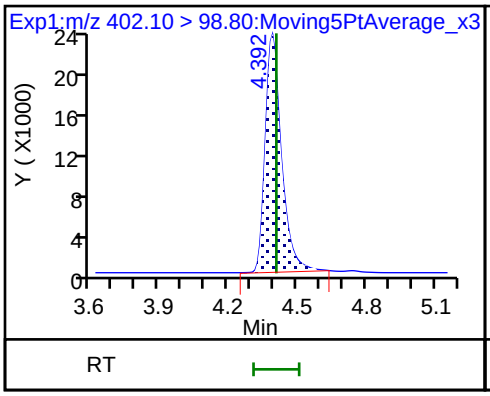

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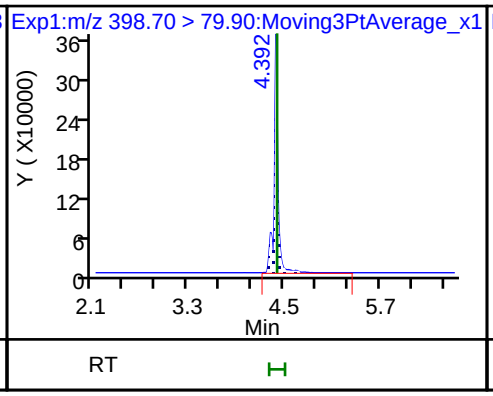

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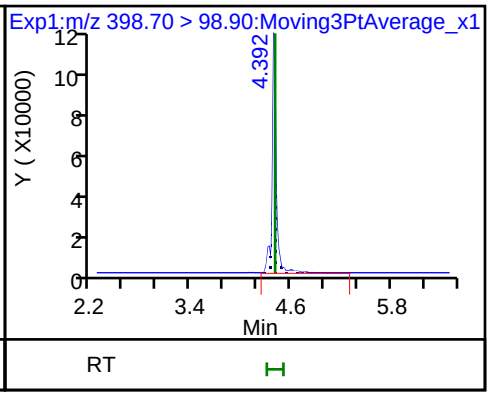

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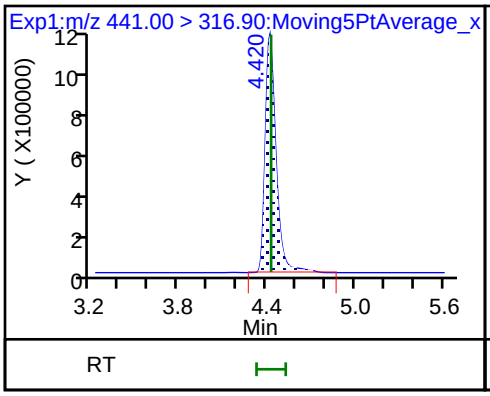

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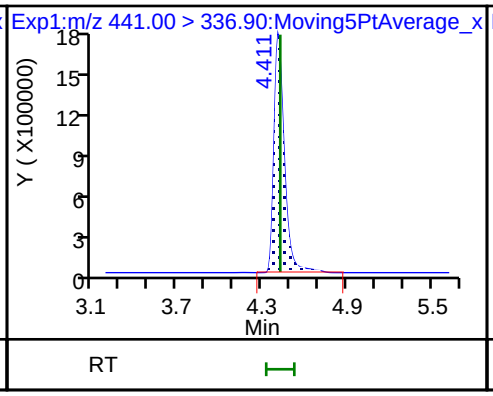

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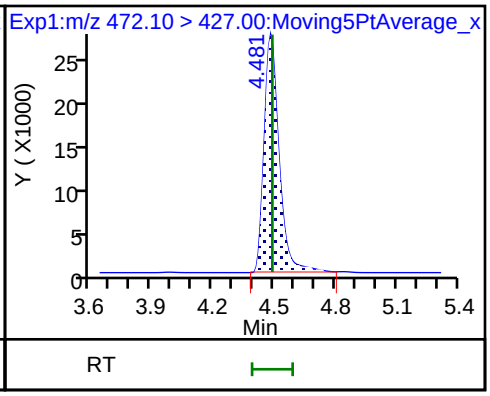

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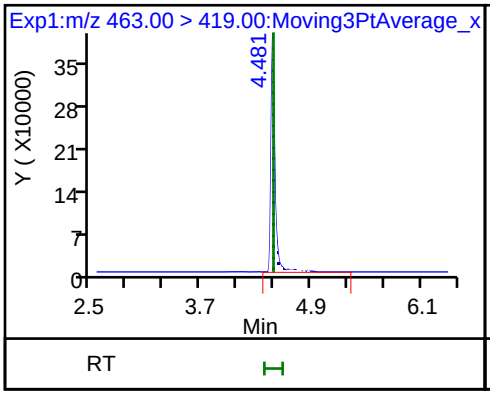

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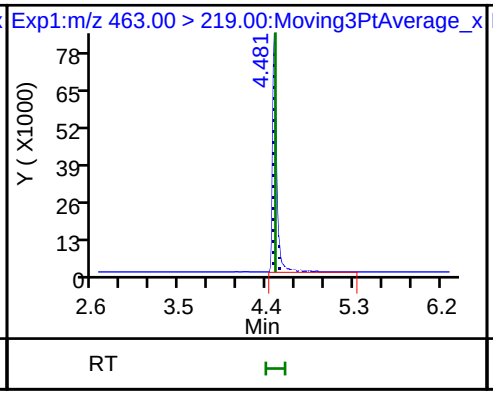

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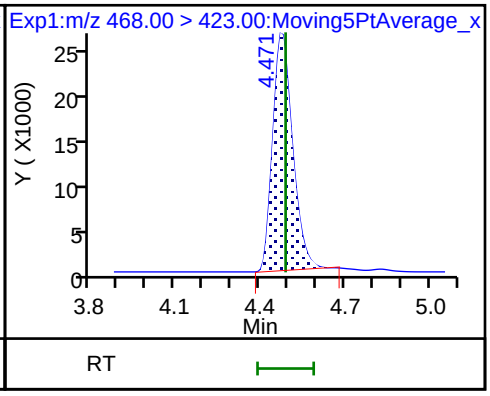

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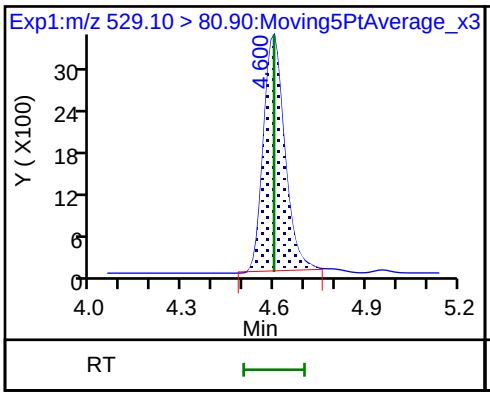

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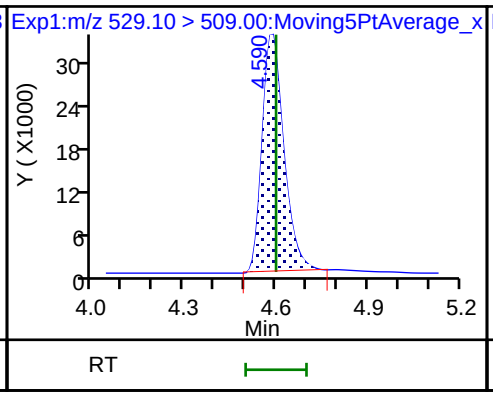

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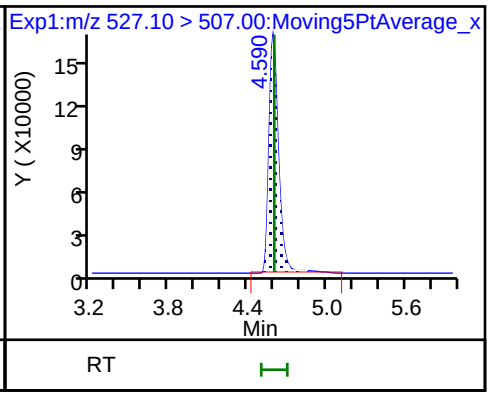

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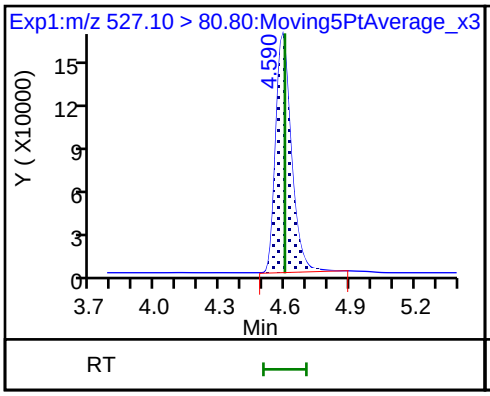

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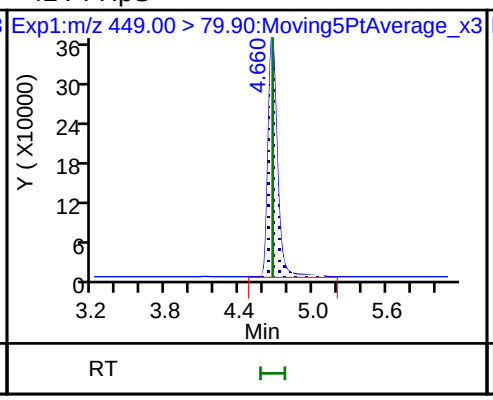

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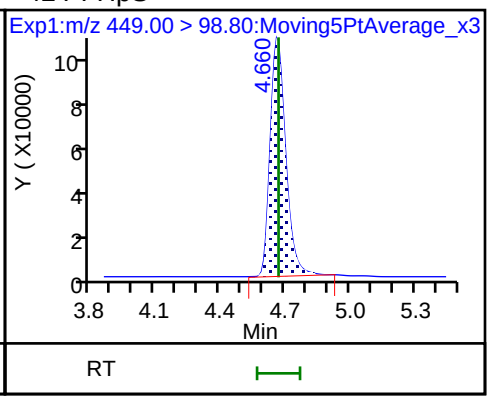
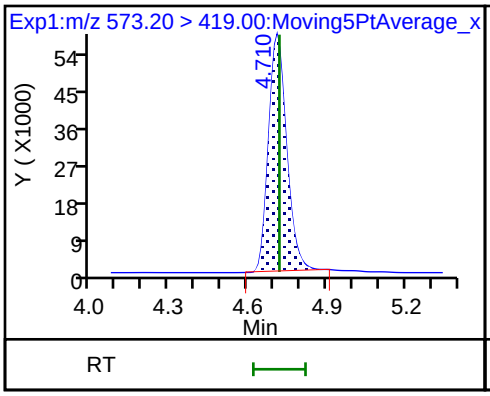


D 44 d3-NMeFOSAA



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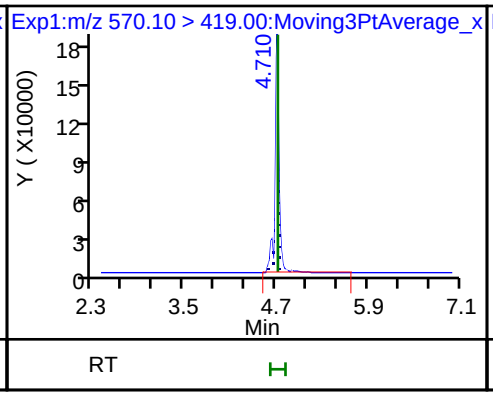

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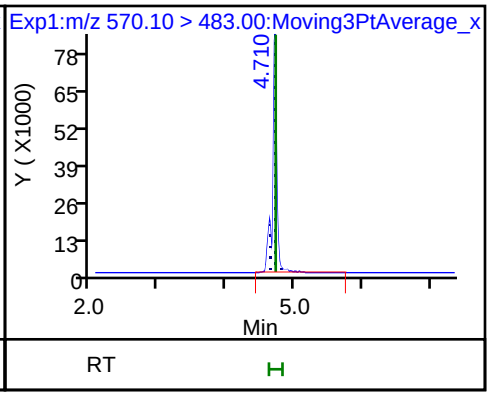
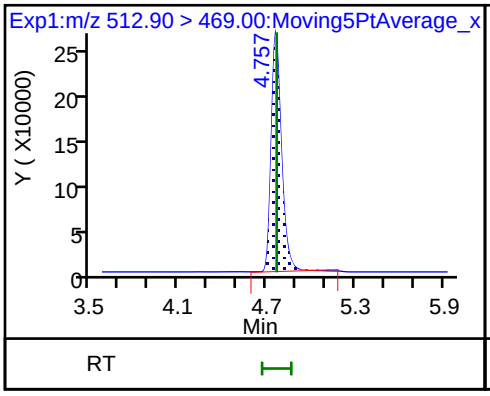


45 PFDA



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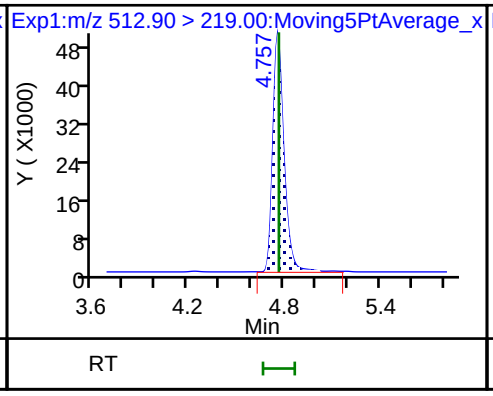

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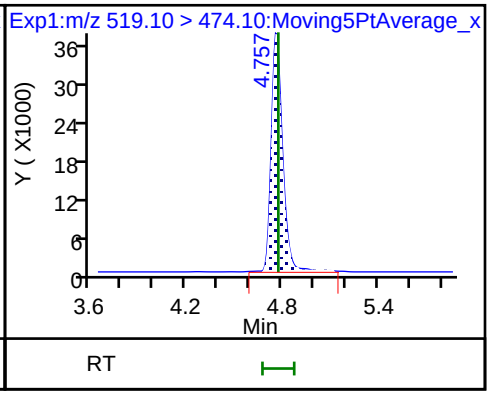
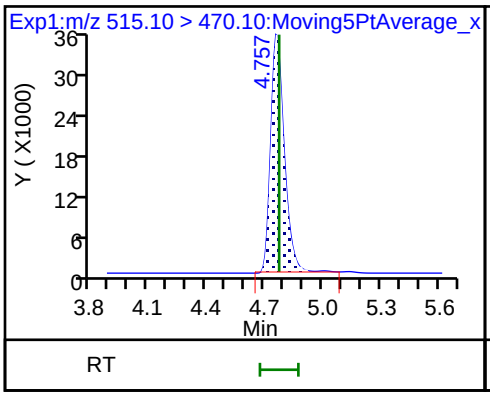
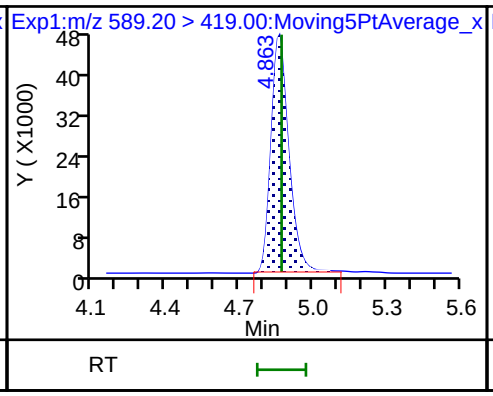


* 46 13C2 PFDA



D 49 d5-NEtFOSAA



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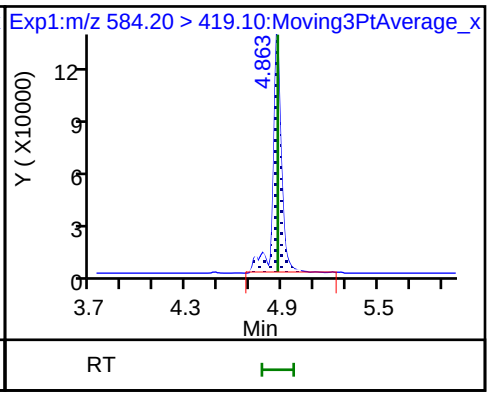

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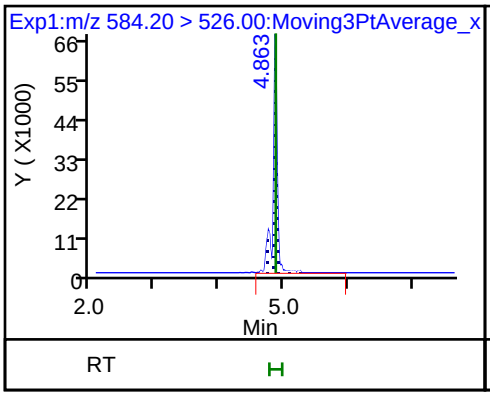

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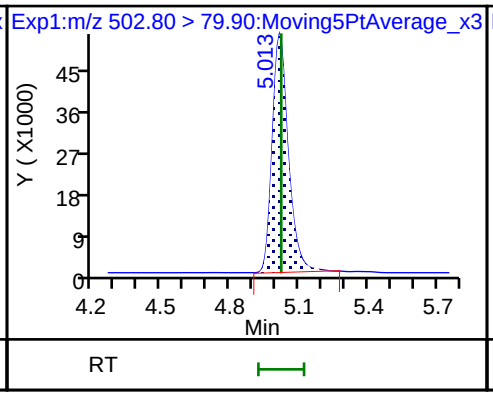

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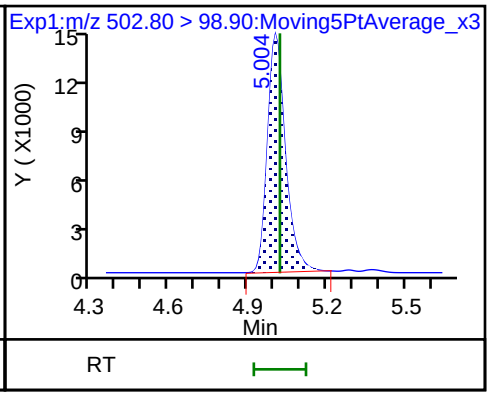

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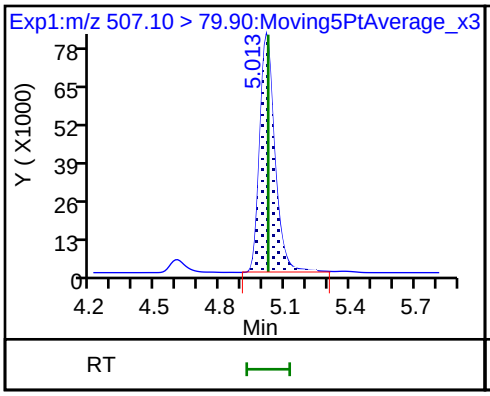

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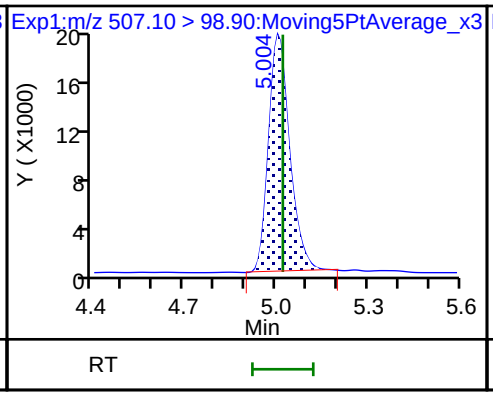
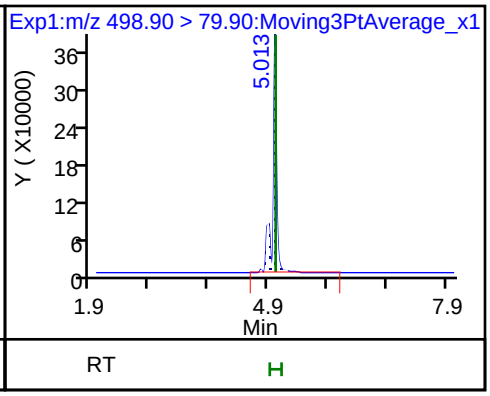
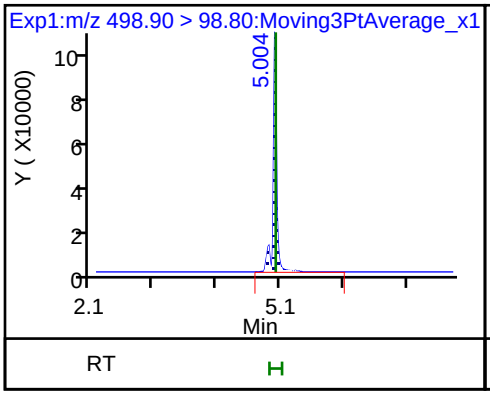


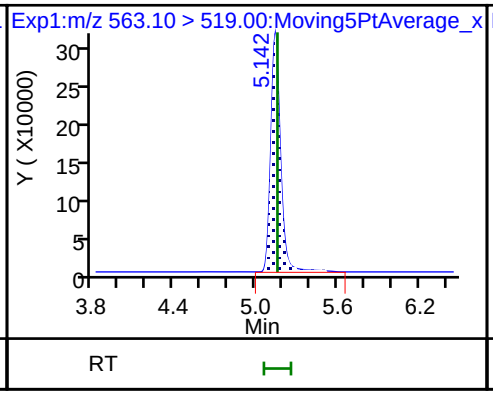
50 PFOS



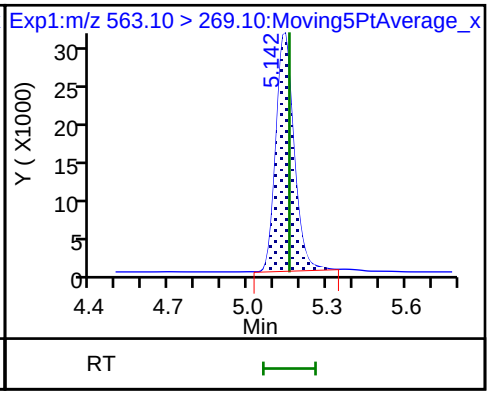
50 PFOS



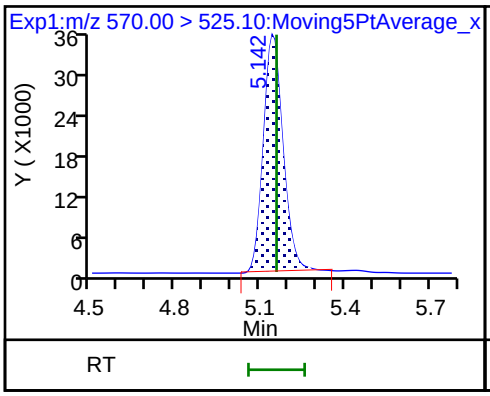
53 PFUnA



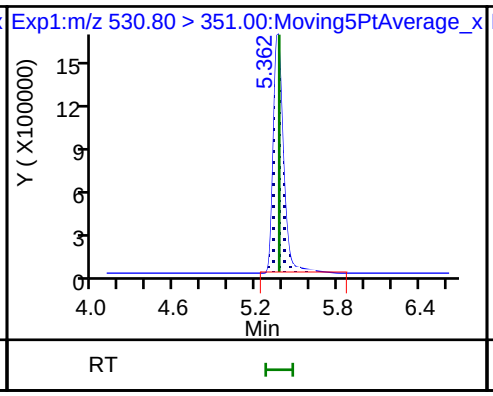
53 PFUnA



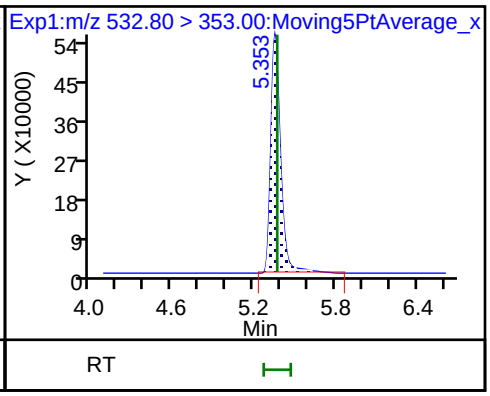
D 54 13C7 PFUnA



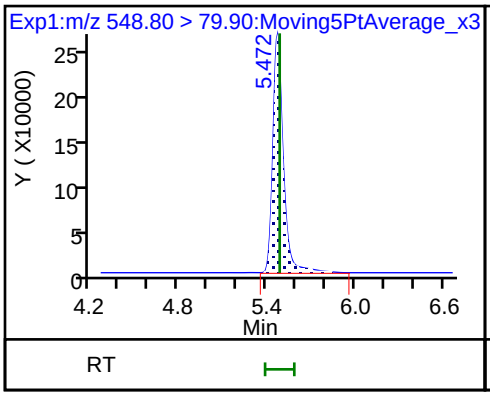
55 9ClFOS



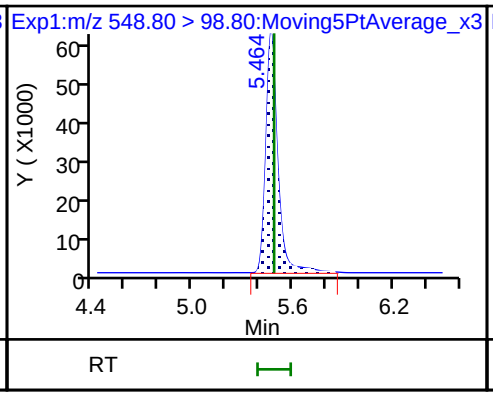
55 9ClFOS



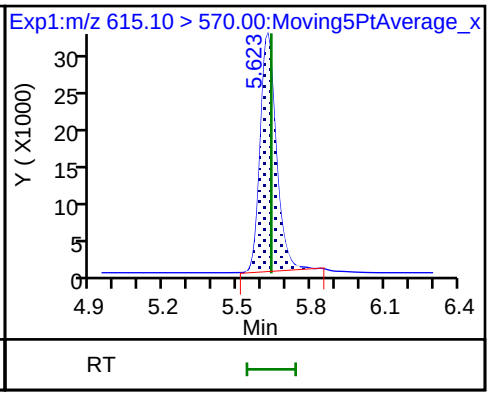
56 PFNS



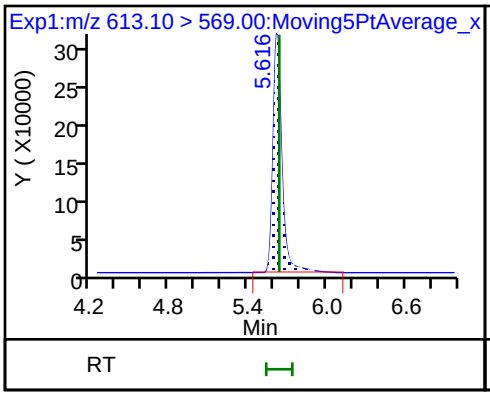
56 PFNS



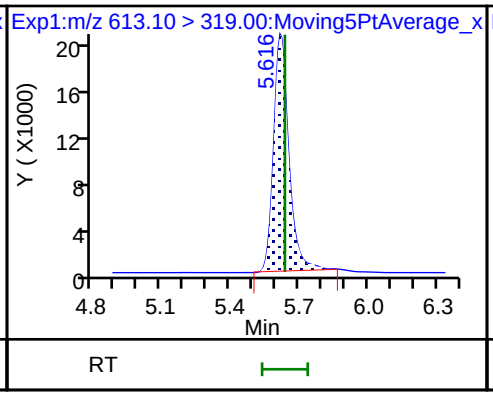
D 58 PFDoDA



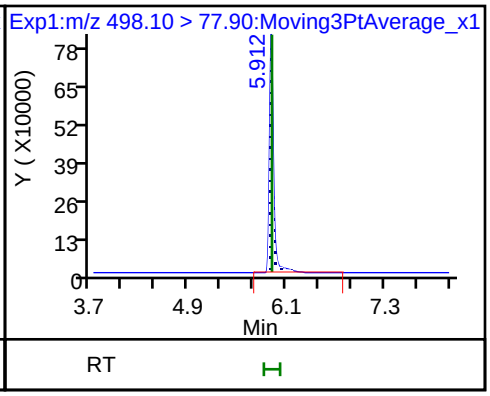
57 PFDoA



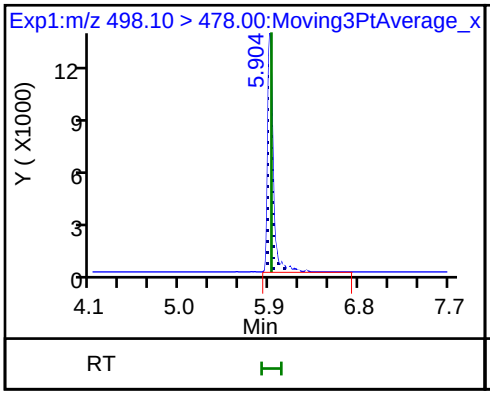
57 PFDoA



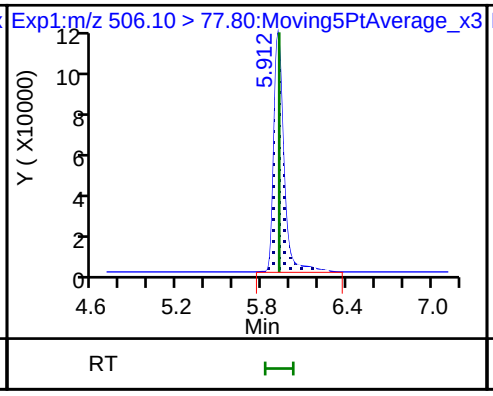
60 PFOSA



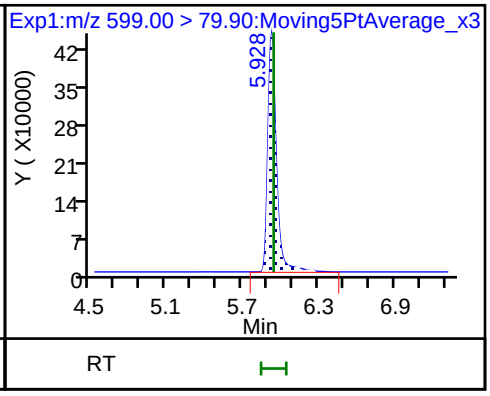
60 PFOSA



D 59 13C8 FOSA



61 PFDS



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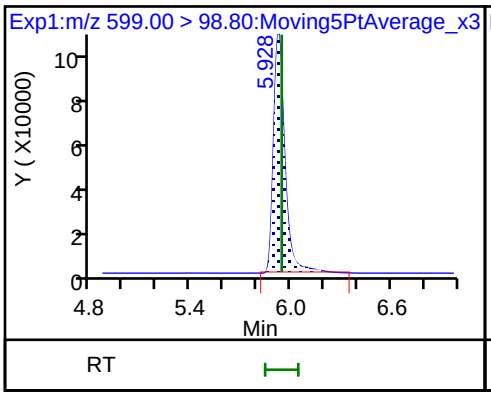
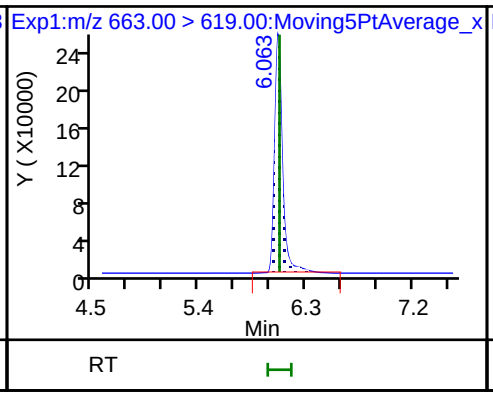
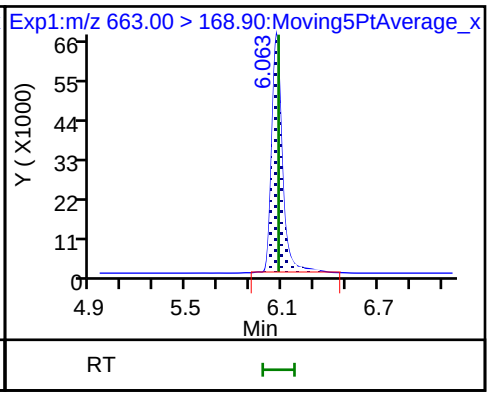


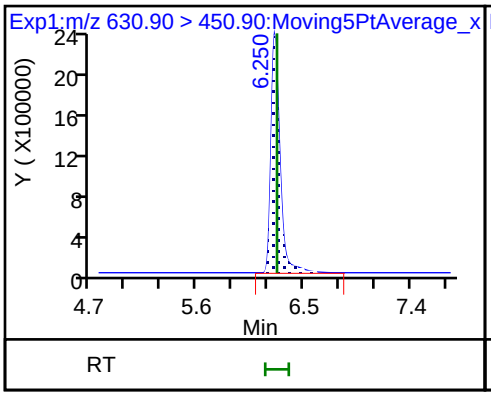
62 PFTrDA



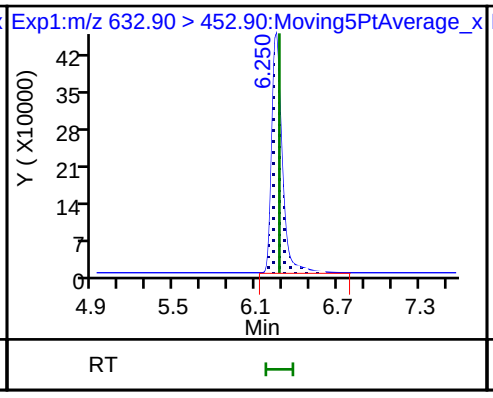
62 PFTrDA



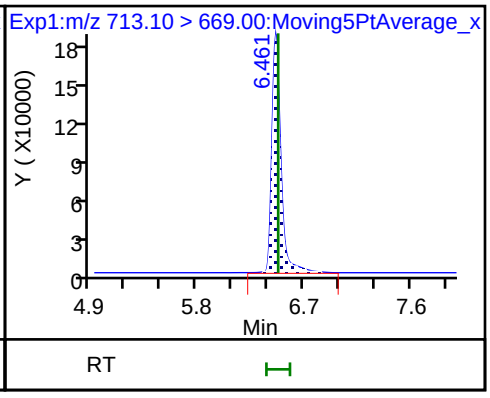
63 11ClFOS



63 11ClFOS



64 PFTeDA



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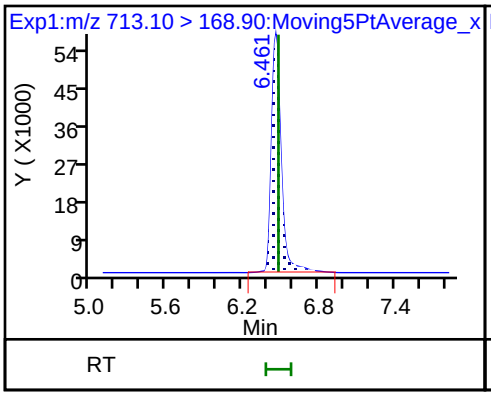

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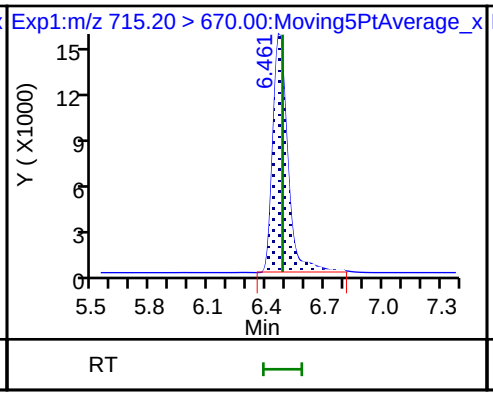
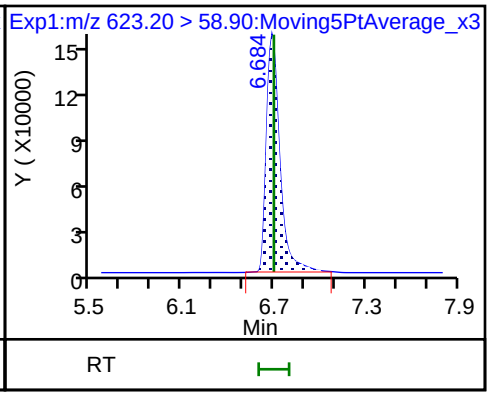
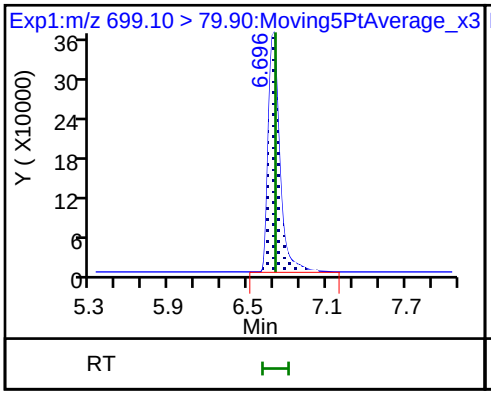


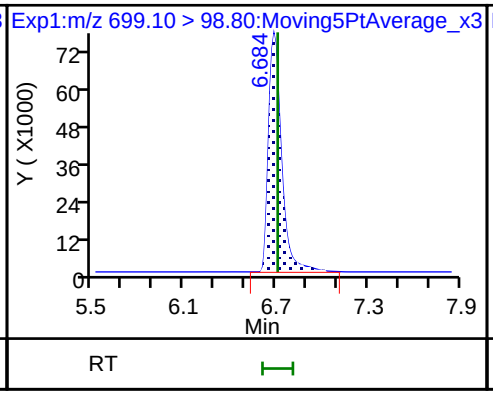
D 67 d7-N-Me-FOSE



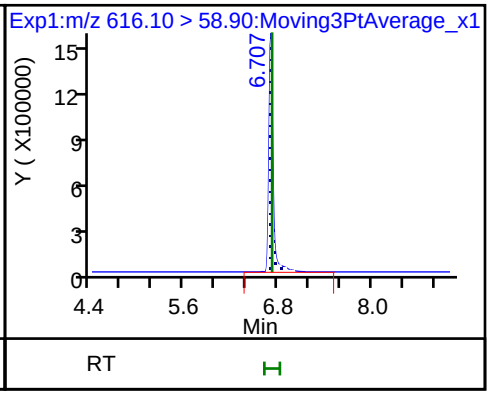
66 PFDoS



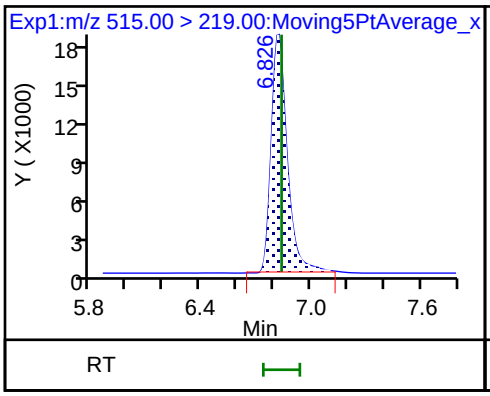
66 PFDoS



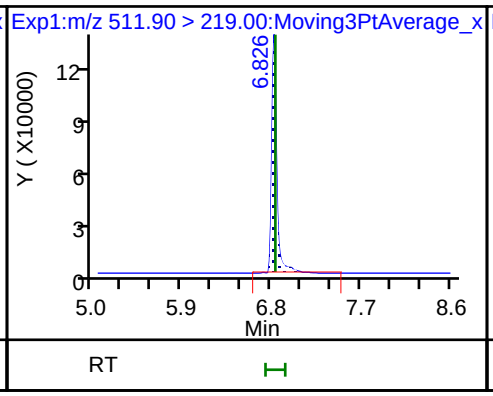
68 N-MeFOSE-M



D 69 d3-NMePFOSA



70 NMeFOSA



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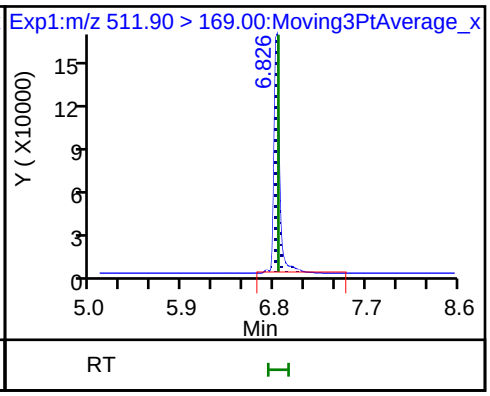
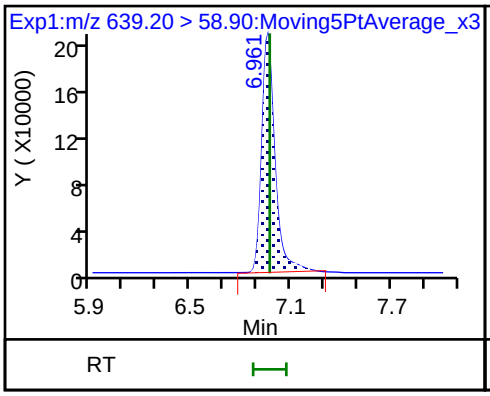


D 71 d9-N-EtFOSE



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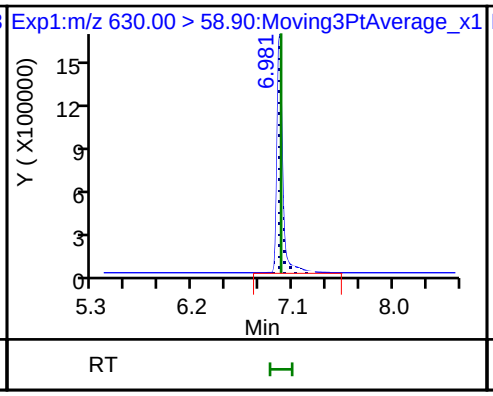
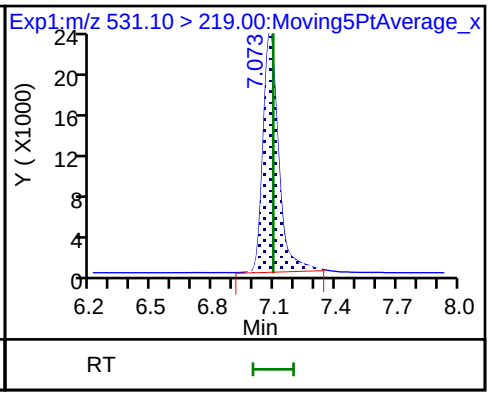
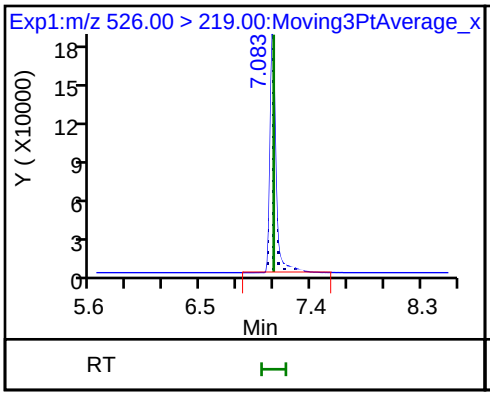


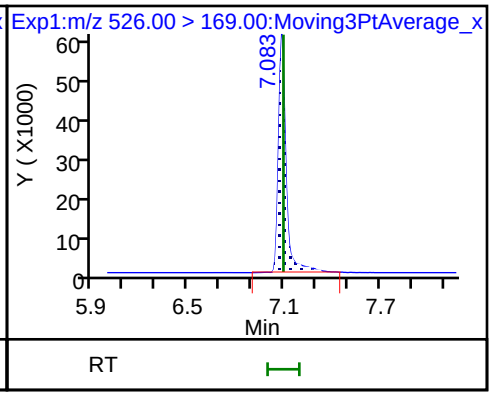
D 73 d5-NEtPFOSA



74 N-EtFOSA-M



74 N-EtFOSA-M



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-07.d
Lims ID: IC CAL 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 05-Aug-2023 10:33:04 ALS Bottle#: 20008 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: IC CAL 7
Misc. Info.: Plate: 1 Rack: 1 410-0090708-007
Operator ID: US19_USR_INS20263 Instrument ID: 30729
Sublist: chrom-PFAS_30729_1633*sub4

Method: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\PFAS_30729_1633.m
Limit Group: LC - 1633 ICAL
Last Update: 05-Aug-2023 12:08:43 Calib Date: 05-Aug-2023 11:25:28
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-11.d

Column 1 : Det: EXP1
Process Host: CTX1666

First Level Reviewer: UCD3 Date: 05-Aug-2023 11:14:16
Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4-PFBA										
216.80 > 171.90	2.924	2.939	-0.015	0.997	1036089	10.1		101	78145	
* 3 13C3PFBA										
216.00 > 172.00	2.932	2.939	-0.007		631726	5.00			1332	
1 PFBA										
212.80 > 168.90	2.924	2.939	-0.015	1.000	24303512	280.9		112	423819	
5 3:3 FTCA										
241.00 > 177.00	3.155	3.163	-0.008	0.916	1962951	296.5	Target=1.07	95.0	130357	
241.00 > 117.00	3.155	3.163	-0.008	0.916	1984885		0.99(0.54-1.61)	95.0	67850	
4 PFMPA										
229.00 > 84.90	3.155	3.163	-0.008	0.916	16028052	121.1		96.9	1081791	
6 PFPA										
263.00 > 219.00	3.434	3.442	-0.008	0.997	15937101	120.5	Target=1147.20	96.4	580094	
263.00 > 68.90	3.434	3.442	-0.008	0.997	13008		1225.18(573.60-1720.80)	96.4	822	
D 7 13C5 PFPeA										
268.30 > 223.00	3.444	3.452	-0.008	0.918	365126	5.38		108	22687	
8 PFMBA										
279.00 > 85.10	3.547	3.556	-0.009	1.030	13071168	123.0		98.4	802900	
D 10 13C2-4:2FTS										R
329.10 > 80.90	3.626	3.636	-0.010	0.826	53116	4.31	Target=0.30	91.9	1995	R
329.10 > 309.00	3.615	3.636	-0.021	0.823	551703		0.10(0.15-0.45)	91.9	32555	
9 4:2FTS										
327.10 > 307.00	3.626	3.636	-0.010	1.000	8216760	271.0	Target=1.45	116	484658	
327.10 > 80.90	3.626	3.636	-0.010	1.000	5449397		1.51(0.72-2.17)	116	325479	
12 NFDHA										
295.00 > 201.00	3.719	3.728	-0.009	0.992	1419090	111.4	Target=2.02	89.1	92074	
295.00 > 84.90	3.719	3.728	-0.009	0.992	872505		1.63(1.01-3.03)	89.1	56880	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
13 PFHxA										
313.00 > 269.00	3.740	3.749	-0.009	0.997	6513778	66.0	Target=12.56	106	310572	
313.00 > 118.90	3.740	3.749	-0.009	0.997	501539		12.99(6.28-18.83)	106	32056	
D 14 13C5 PFHxA										
318.00 > 273.00	3.750	3.759	-0.009	1.000	45448	2.75	Target=14.90	110	2918	
318.00 > 120.30	3.740	3.759	-0.019	0.997	2187		20.78(7.45-22.34)	110	165	
* 15 13C2 PFHxA										
315.10 > 270.00	3.750	3.759	-0.009		236029	2.50	Target=218.11		15037	
315.10 > 119.40	3.750	3.759	-0.009		2046		115.36(109.05-327.16)		185	
16 5:3 FTCA										
341.00 > 237.10	3.844	3.843	0.001	1.025	37604696	1287.3	Target=2.80	82.5	2171324	
341.00 > 217.00	3.844	3.843	0.001	1.025	14073333		2.67(1.40-4.19)	82.5	836470	
17 PFBS										
298.70 > 79.90	3.844	3.854	-0.010	0.997	5456106	58.5	Target=3.12	105	324562	
298.70 > 98.80	3.844	3.854	-0.010	0.997	1829730		2.98(1.56-4.67)	105	108717	
D 18 13C3 PFBS										
302.10 > 79.90	3.856	3.866	-0.010	0.878	359565	2.07	Target=6.66	88.7	21713	
302.10 > 98.90	3.844	3.866	-0.022	0.875	63456		5.67(3.33-9.99)	88.7	4065	
D 20 13C3 HFPO-DA										
286.90 > 168.90	3.867	3.877	-0.010	1.031	945827	9.08	Target=27.88	90.8	55870	
286.90 > 184.90	3.856	3.877	-0.021	1.028	48142		19.65(13.94-41.82)	90.8	3023	
19 HFPO-DA										
284.90 > 168.90	3.867	3.877	-0.010	1.000	17807155	275.1	Target=18.47	110	73031	
284.90 > 184.90	3.856	3.877	-0.021	0.997	1055566		16.87(9.23-27.70)	110	64878	
23 PFEESA										
314.80 > 134.90	3.997	4.006	-0.009	1.066	55342552	106.1	Target=14.12	95.4	2600086	
314.80 > 82.90	3.997	4.006	-0.009	1.066	3588353		15.42(7.06-21.18)	95.4	161509	
D 25 13C4 PFHpA										
367.10 > 322.00	4.007	4.017	-0.010	1.069	469324	2.37		94.9	29141	
24 PFHpA										
363.10 > 319.00	4.007	4.017	-0.010	1.000	12025236	67.9	Target=3.63	109	366949	
363.10 > 169.00	3.997	4.017	-0.020	0.997	3299356		3.64(1.81-5.44)	109	202134	
26 ADONA										
376.90 > 250.90	4.095	4.105	-0.010	1.059	44551436	243.7	Target=12.35	103	1960729	
376.90 > 84.80	4.095	4.105	-0.010	1.059	4234206		10.52(6.17-18.52)	103	253675	
27 6:2FTS										
427.10 > 407.00	4.118	4.127	-0.009	1.000	5906428	208.2	Target=1.66	87.7	343174	
427.10 > 80.90	4.118	4.127	-0.009	1.000	3859876		1.53(0.83-2.50)	87.7	222317	
D 29 13C2-6:2FTS										R
429.10 > 80.90	4.118	4.127	-0.009	0.938	29566	4.65	Target=0.15	97.7	1844	R
429.10 > 409.00	4.107	4.127	-0.020	0.935	511627		0.06(0.07-0.22)	97.7	30258	
28 PFPeS										
349.10 > 79.90	4.139	4.149	-0.010	0.941	11542610	67.1	Target=3.80	114	346406	
349.10 > 98.90	4.139	4.149	-0.010	0.941	3371998		3.42(1.90-5.70)	114	203431	
32 PFOA										
413.00 > 369.00	4.250	4.249	0.001	1.002	7136507	66.4	Target=2.19	106	7769	
413.00 > 169.00	4.239	4.249	-0.010	1.000	3243841		2.20(1.09-3.28)	106	886	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 30 13C4 PFOA										
417.10 > 172.00	4.239	4.249	-0.010		22068	2.50			1459	
D 31 13C8 PFOA										
421.10 > 376.00	4.239	4.249	-0.010	1.000	544235	2.59		104	33472	
* 35 18O2 PFHxS										
403.00 > 83.90	4.392	4.399	-0.007		397625	2.37			26597	
D 36 13C3 PFHxS										
402.10 > 79.90	4.401	4.408	-0.007	1.002	413436	2.19	Target=3.87	92.3	26768	
402.10 > 98.80	4.392	4.408	-0.016	1.000	110426		3.74(1.93-5.80)	92.3	7668	
34 PFHxS										
398.70 > 79.90	4.392	4.408	-0.016	0.998	5887112	64.1	Target=3.41	112	312	
398.70 > 98.90	4.392	4.408	-0.016	0.998	1738352		3.39(1.70-5.11)	112	8671	
33 7:3 FTCA										
441.00 > 316.90	4.420	4.427	-0.007	1.179	25237895	1218.4	Target=0.66	78.1	477019	
441.00 > 336.90	4.411	4.427	-0.016	1.176	41492305		0.61(0.33-1.00)	78.1	712318	
* 37 13C5 PFNA										
468.00 > 423.00	4.473	4.490	-0.017		136402	1.25			9061	
D 38 13C9 PFNA										
472.10 > 427.00	4.482	4.490	-0.008	1.002	145485	1.26		101	9476	
39 PFNA										
463.00 > 419.00	4.482	4.490	-0.008	1.000	6387627	65.3	Target=4.66	105	17601	
463.00 > 219.00	4.482	4.490	-0.008	1.000	1311492		4.87(2.33-7.00)	105	7058	
D 41 13C2-8:2FTS										R
529.10 > 80.90	4.591	4.599	-0.008	1.045	20630	6.07	Target=0.14	127	1303	R
529.10 > 509.00	4.591	4.599	-0.008	1.045	395977		0.05(0.07-0.21)	127	13294	
40 8:2FTS										
527.10 > 507.00	4.591	4.599	-0.008	1.000	4980831	206.4	Target=1.18	86.0	326611	
527.10 > 80.80	4.591	4.599	-0.008	1.000	4823730		1.03(0.59-1.77)	86.0	312794	
42 PFHpS										
449.00 > 79.90	4.662	4.669	-0.007	0.930	9955337	65.6	Target=3.61	110	271284	
449.00 > 98.80	4.662	4.669	-0.007	0.930	2679628		3.72(1.80-5.41)	110	172597	
D 44 d3-NMeFOSAA										
573.20 > 419.00	4.712	4.719	-0.007	0.940	260122	4.76		95.1	16884	
43 NMeFOSAA										
570.10 > 419.00	4.712	4.719	-0.007	1.000	3485214	71.5	Target=1.96	114	501	
570.10 > 483.00	4.712	4.719	-0.007	1.000	1723019		2.02(0.98-2.93)	114	9343	
45 PFDA										
512.90 > 469.00	4.758	4.765	-0.007	1.000	7204089	73.4	Target=6.39	117	496973	
512.90 > 219.00	4.758	4.765	-0.007	1.000	1209406		5.96(3.20-9.59)	117	61558	
D 47 13C6 PFDA										
519.10 > 474.10	4.758	4.775	-0.017	1.000	172522	1.10		87.8	9078	
* 46 13C2 PFDA										
515.10 > 470.10	4.758	4.775	-0.017		194829	1.25			13180	
D 49 d5-NEtFOSAA										
589.20 > 419.00	4.864	4.871	-0.007	0.970	260399	5.12		102	13047	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
48 NEtFOSAA										
584.20 > 419.10	4.864	4.871	-0.007	1.000	2427580	62.3	Target=1.68	99.7	824	
584.20 > 526.00	4.864	4.871	-0.007	1.000	1390895		1.75(0.84-2.52)	99.7	5071	
* 52 13C4 PFOS										
502.80 > 79.90	5.013	5.021	-0.008		263317	2.40	Target=3.81		18037	
502.80 > 98.90	5.004	5.021	-0.017		65291		4.03(1.91-5.72)		4475	
D 51 13C8 PFOS										
507.10 > 79.90	5.013	5.021	-0.008	1.000	360047	2.30	Target=4.02	96.0	1614	
507.10 > 98.90	5.004	5.021	-0.017	0.998	89149		4.04(2.01-6.03)	96.0	4615	
50 PFOS										
498.90 > 79.90	5.013	5.021	-0.008	1.000	8888921	64.2	Target=4.56	111	44731	
498.90 > 98.80	5.013	5.021	-0.008	1.000	1865910		4.76(2.28-6.83)	111	7597	
53 PFUnA										
563.10 > 519.00	5.141	5.158	-0.017	1.000	8074850	72.1	Target=11.35	115	541707	
563.10 > 269.10	5.141	5.158	-0.017	1.000	690698		11.69(5.67-17.02)	115	17440	
D 54 13C7 PFUnA										
570.00 > 525.10	5.141	5.158	-0.017	1.080	158218	1.09		87.6	8178	
55 9ClFOS										
530.80 > 351.00	5.362	5.371	-0.009	1.387	41242606	244.8	Target=3.22	105	2584764	
532.80 > 353.00	5.353	5.371	-0.018	1.384	12841867		3.21(1.61-4.83)	105	828591	
56 PFNS										
548.80 > 79.90	5.471	5.486	-0.015	1.091	6544668	64.2	Target=4.35	107	327688	
548.80 > 98.80	5.471	5.486	-0.015	1.091	1596652		4.10(2.18-6.53)	107	106898	
D 58 PFDoDA										
615.10 > 570.00	5.623	5.637	-0.014	1.182	153643	1.20		95.8	8616	
57 PFDoA										
613.10 > 569.00	5.623	5.637	-0.014	1.000	7607949	65.6	Target=16.83	105	523084	
613.10 > 319.00	5.615	5.637	-0.022	0.999	481731		15.79(8.42-25.25)	105	33140	
60 PFOSA										
498.10 > 77.90	5.912	5.920	-0.008	1.000	13882676	62.2	Target=57.83	99.5	191669	
498.10 > 478.00	5.904	5.920	-0.016	0.999	243338		57.05(28.91-86.74)	99.5	5298	
D 59 13C8 FOSA										
506.10 > 77.80	5.912	5.920	-0.008	1.179	540838	2.36		94.3	36551	
61 PFDS										
599.00 > 79.90	5.928	5.944	-0.016	1.183	10209671	63.7	Target=4.33	106	700020	
599.00 > 98.80	5.928	5.944	-0.016	1.183	2350045		4.34(2.16-6.49)	106	159256	
62 PFTrDA										
663.00 > 619.00	6.063	6.076	-0.013	0.938	6275865	65.2	Target=3.74	104	151637	
663.00 > 168.90	6.063	6.076	-0.013	0.938	1735421		3.62(1.87-5.60)	104	75936	
63 11ClFOS										
630.90 > 450.90	6.250	6.272	-0.022	1.616	50710886	225.0	Target=5.39	95.2	3026660	
632.90 > 452.90	6.250	6.272	-0.022	1.616	9630996		5.27(2.70-8.09)	95.2	579996	
64 PFTeDA										
713.10 > 669.00	6.461	6.482	-0.021	1.000	5243535	65.9	Target=3.33	106	328778	
713.10 > 168.90	6.461	6.482	-0.021	1.000	1562436		3.36(1.66-4.99)	106	96042	
D 65 13C2 PFTeDA										
715.20 > 670.00	6.461	6.482	-0.021	1.358	86898	1.20		96.3	5511	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 67 d7-N-Me-FOSE										
623.20 > 58.90	6.683	6.696	-0.013	1.333	920724	24.4		97.6	30435	
66 PFDoS										
699.10 > 79.90	6.695	6.708	-0.013	1.336	10544852	63.1	Target=4.86	104	575881	
699.10 > 98.80	6.683	6.708	-0.025	1.333	2289626		4.61(2.43-7.28)	104	127897	
68 N-MeFOSE-M										
616.10 > 58.90	6.707	6.720	-0.013	1.004	26664878	651.1		104	218397	
D 69 d3-NMePFOSA										
515.00 > 219.00	6.814	6.839	-0.025	1.359	114094	2.53		101	6195	
70 NMeFOSA										
511.90 > 219.00	6.826	6.839	-0.013	1.002	2229005	61.5	Target=0.79	98.3	28309	
511.90 > 169.00	6.826	6.839	-0.013	1.002	2869250		0.78(0.40-1.18)	98.3	59496	
D 71 d9-N-EtFOSE										
639.20 > 58.90	6.960	6.972	-0.012	1.389	1151560	24.9		99.4	34844	
72 N-EtFOSE-M										
630.00 > 58.90	6.981	6.992	-0.011	1.003	28095614	648.7		104	262772	
D 73 d5-NEtPFOSA										
531.10 > 219.00	7.073	7.094	-0.021	1.411	117090	2.43		97.0	5451	
74 N-EtFOSA-M										
526.00 > 219.00	7.083	7.094	-0.011	1.001	2927855	64.9	Target=3.02	104	87401	
526.00 > 169.00	7.083	7.094	-0.011	1.001	954109		3.07(1.51-4.53)	104	3260	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Reagents:

PFC_STD7_1633_00006 Amount Added: 1.00 Units: mL

Report Date: 05-Aug-2023 12:08:49 Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-07.d

Injection Date: 05-Aug-2023 10:33:04 Instrument ID: 30729

Lims ID: IC CAL 7

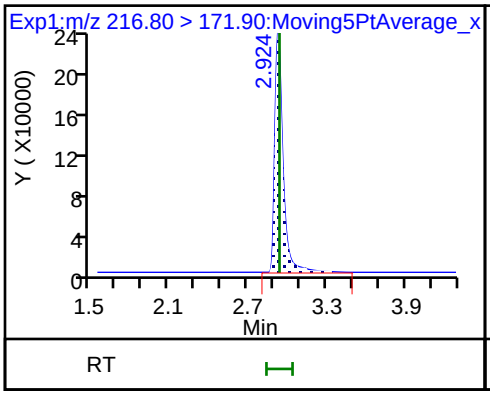
Client ID:

Operator ID: US19_USR_INS20263 ALS Bottle#: 20008 Worklist Smp#: 7

Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: PFAS_30729_1633 Limit Group: LC - 1633 ICAL

D 2 13C4-PFBA



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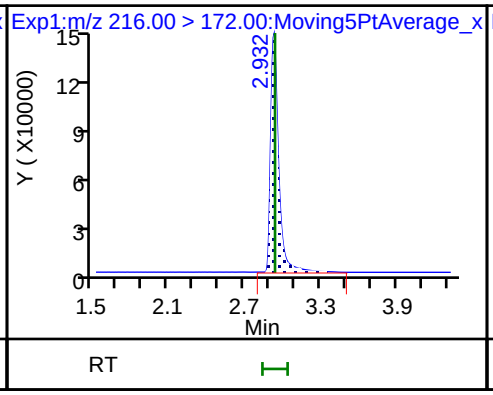
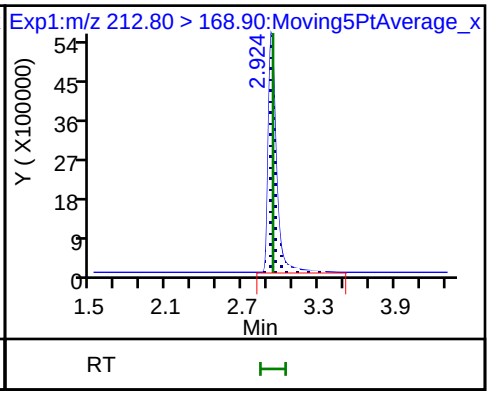


1 PFBA



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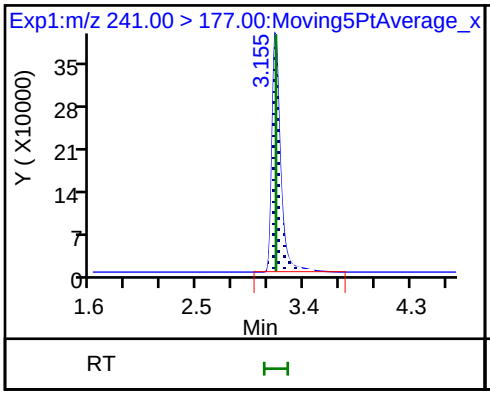

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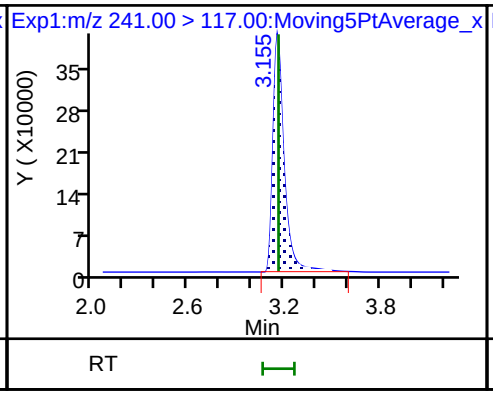

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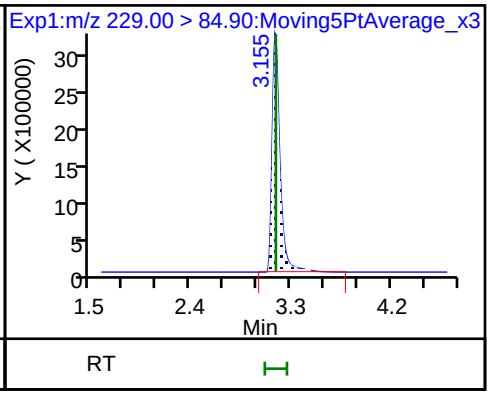
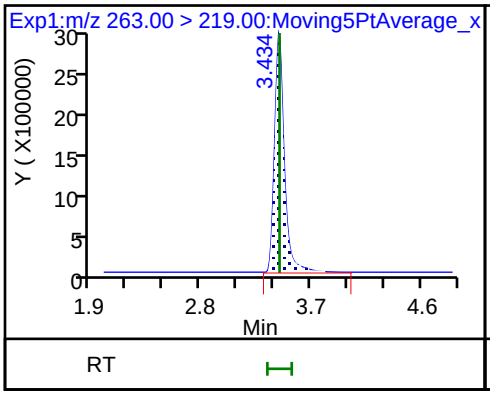
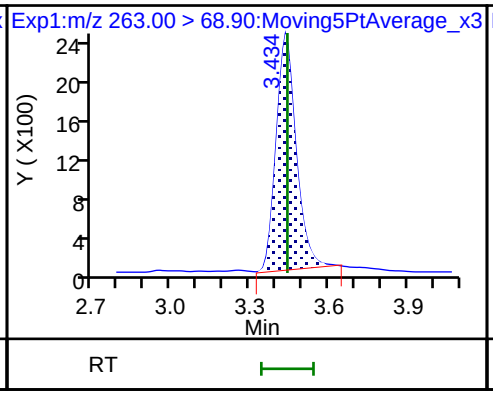


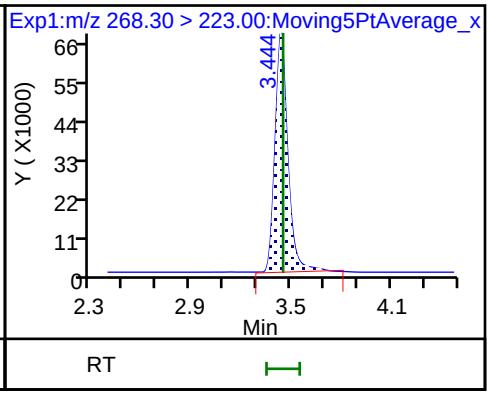
6 PFPA



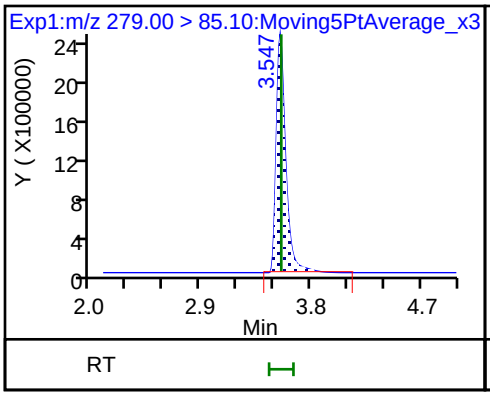
6 PFPA



D 7 13C5 PFPeA



8 PFMBA



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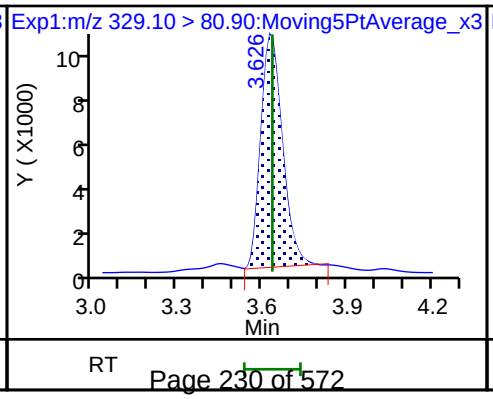

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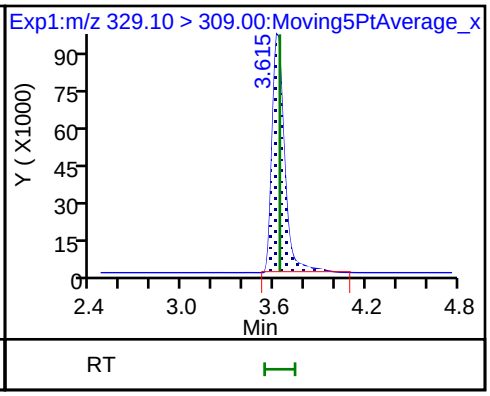

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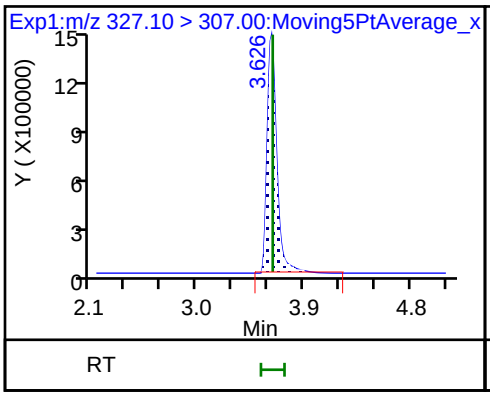
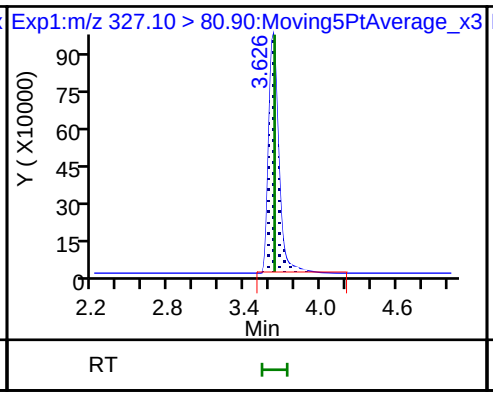
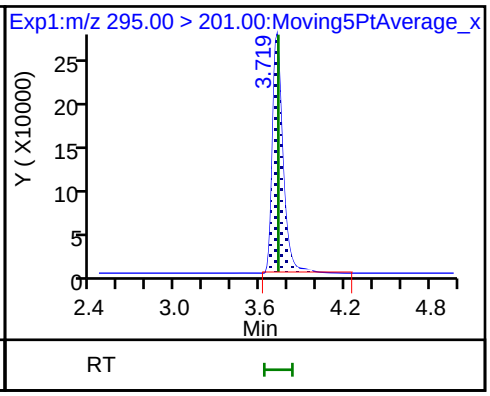


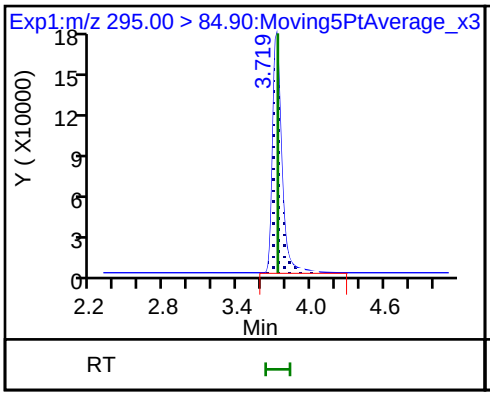
9 4:2FTS



12 NFDHA



12 NFDHA



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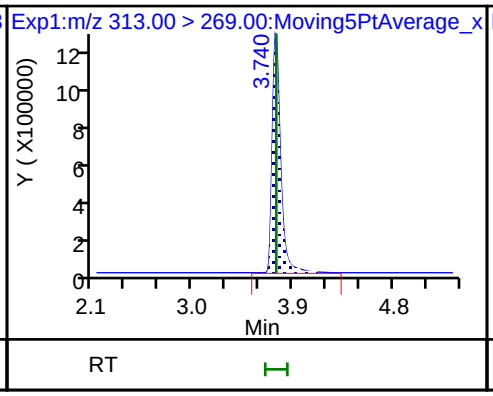
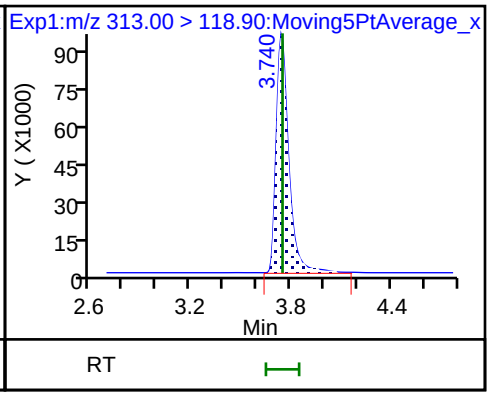


13 PFHxA



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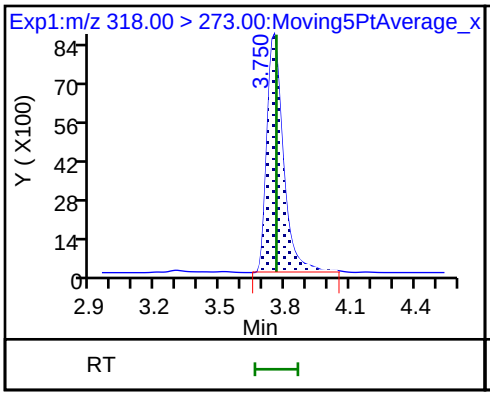

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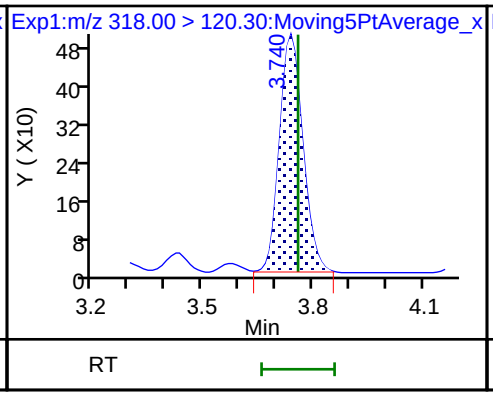

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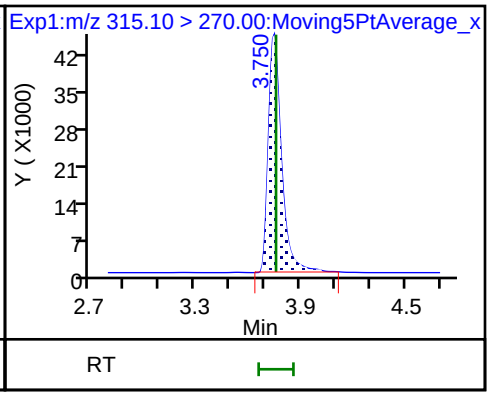

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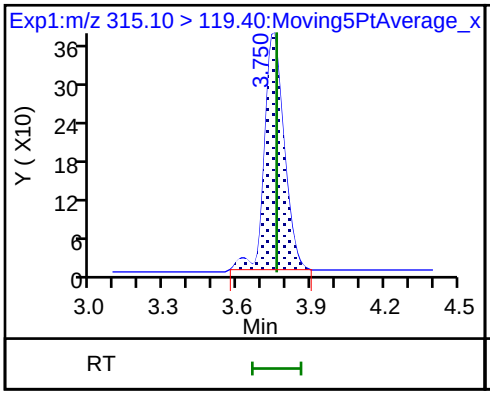
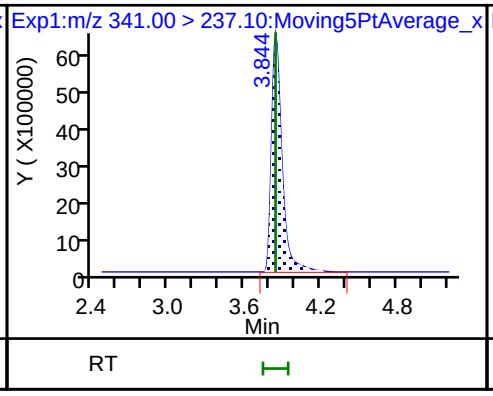
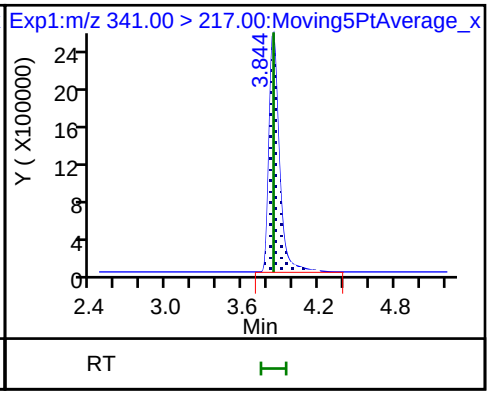


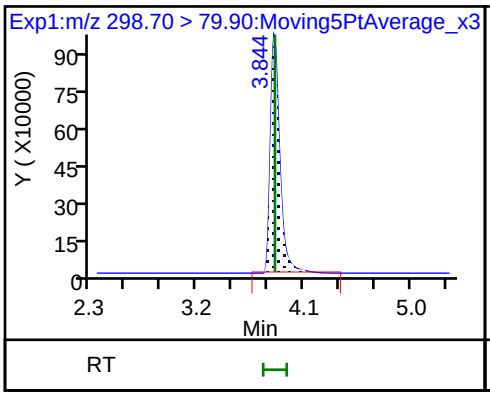
16 5:3 FTCA



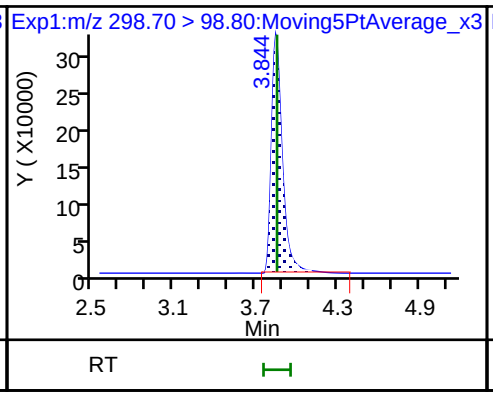
16 5:3 FTCA



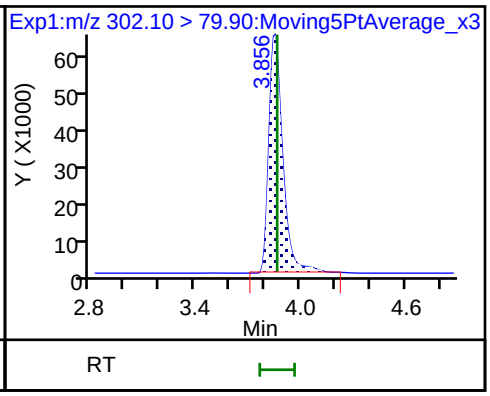
17 PFBS



17 PFBS



D 18 13C3 PFBS



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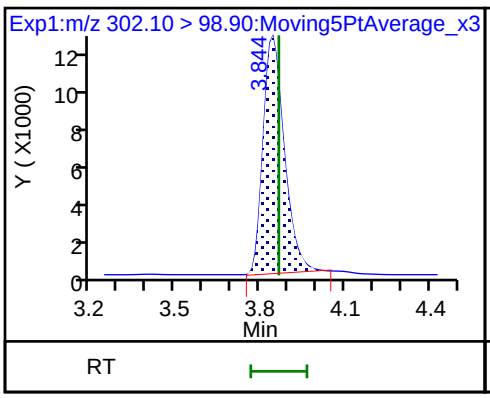

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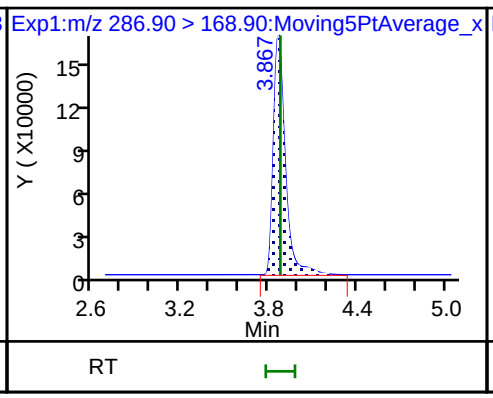

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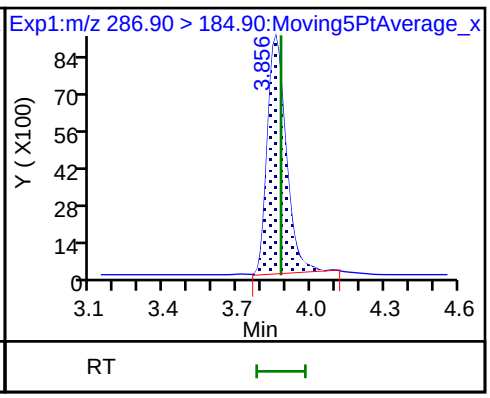
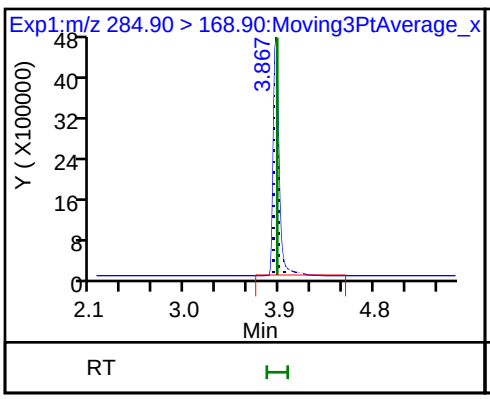


19 HFPO-DA



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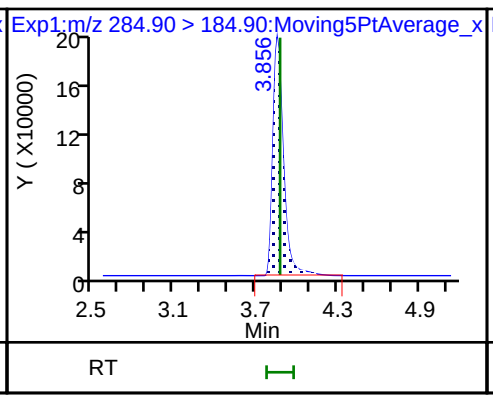
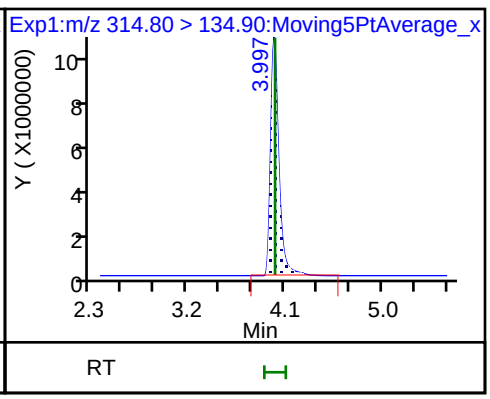


23 PFEESA



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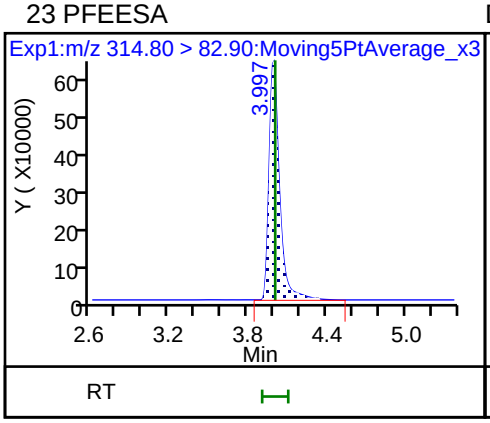

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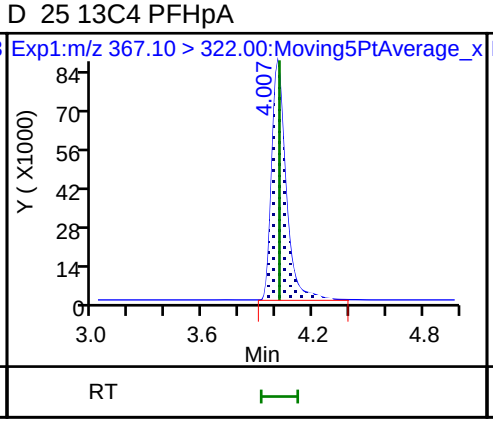

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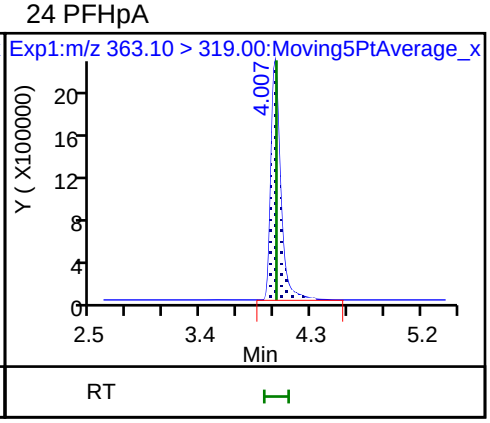

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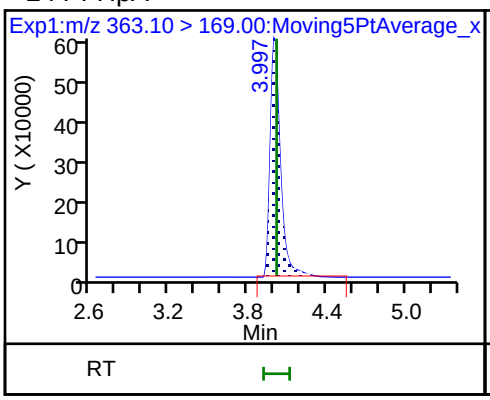

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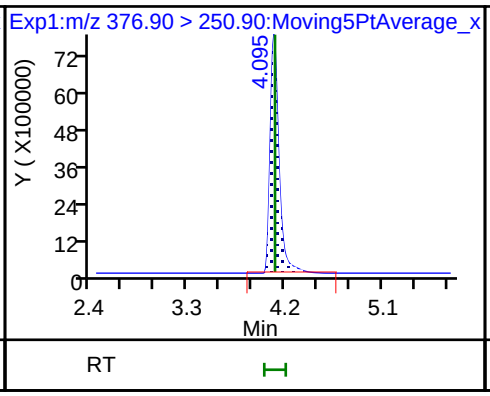

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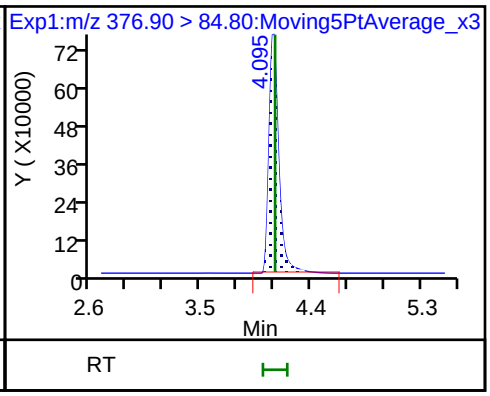
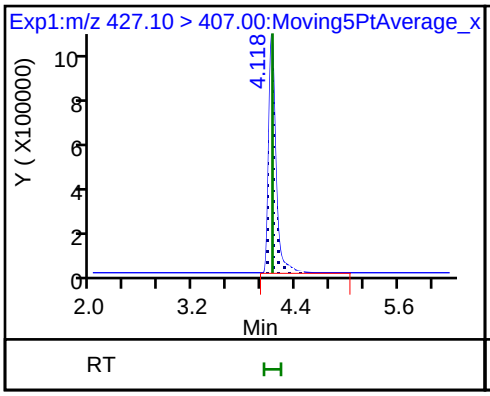


27 6:2FTS



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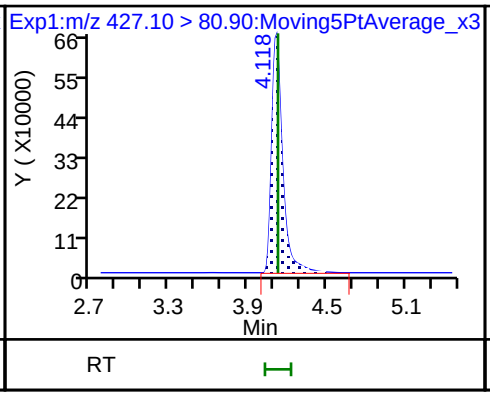
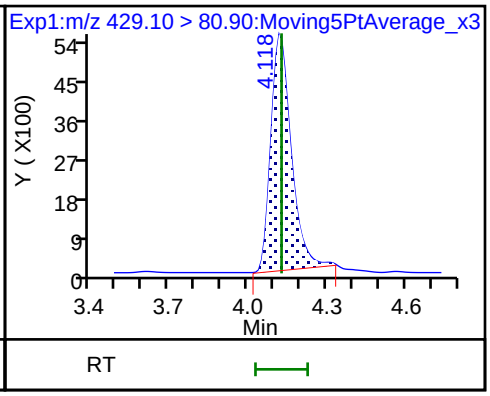


D 29 13C2-6:2FTS



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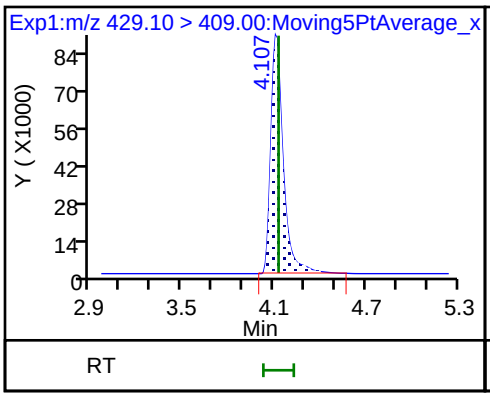
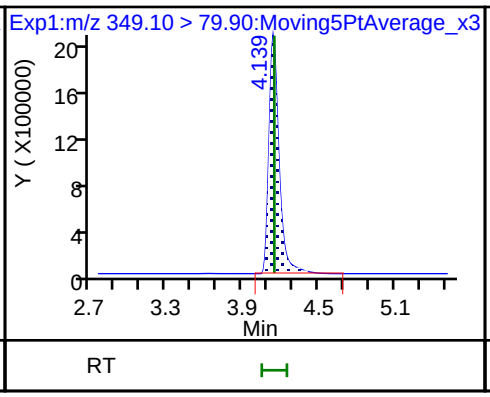


28 PFPeS



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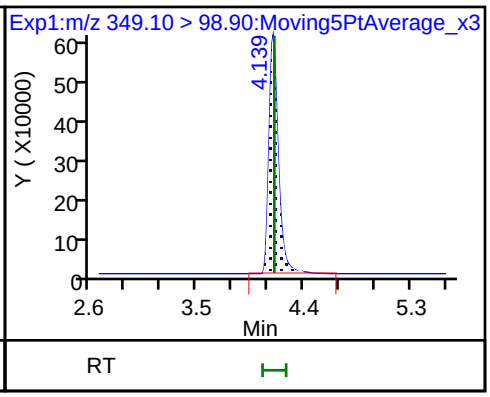
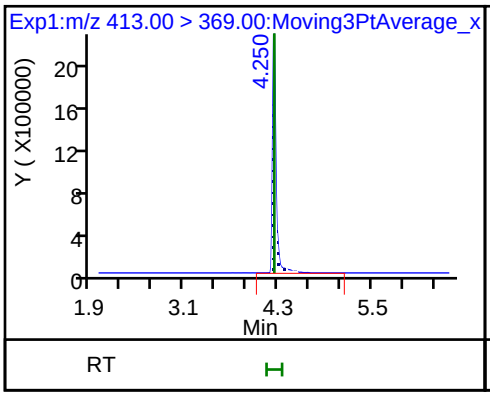


32 PFOA



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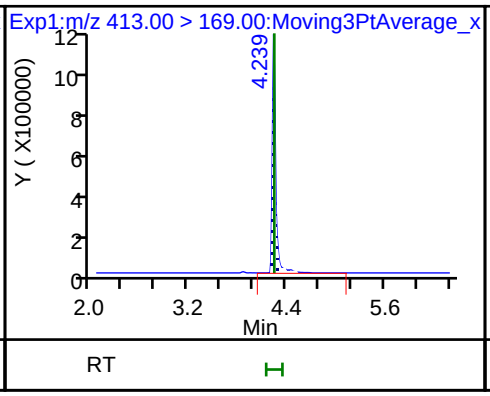

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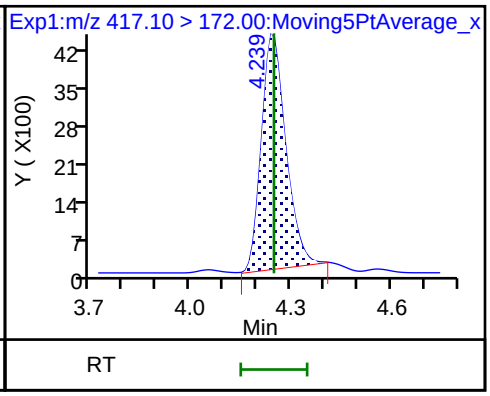

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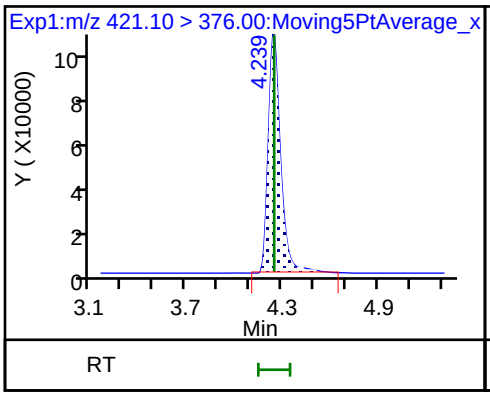

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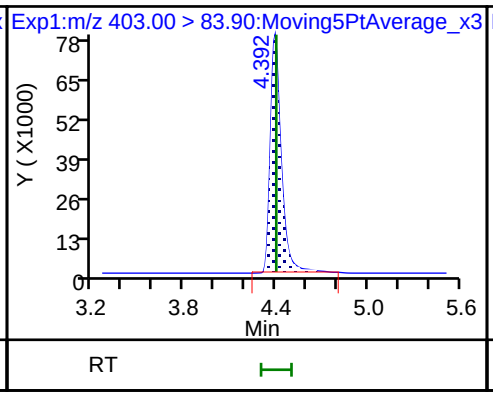

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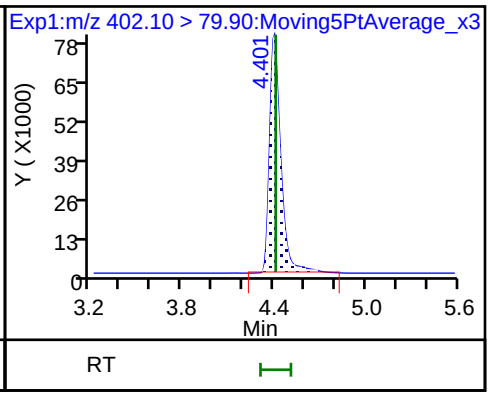

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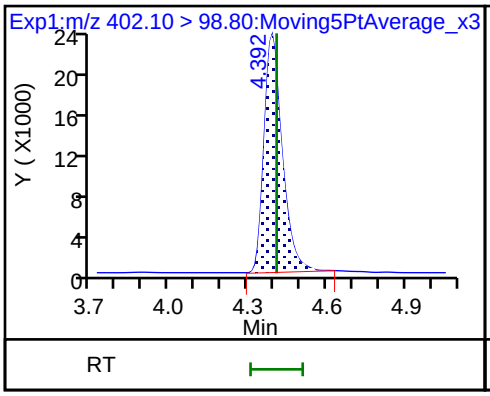

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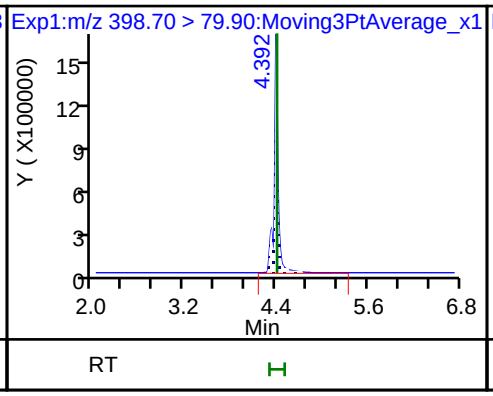

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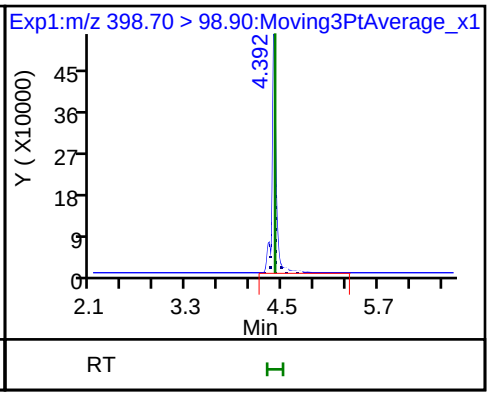

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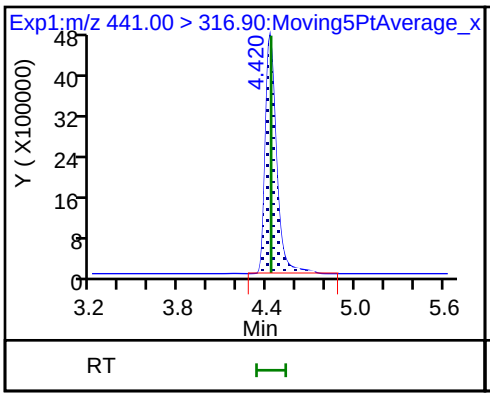

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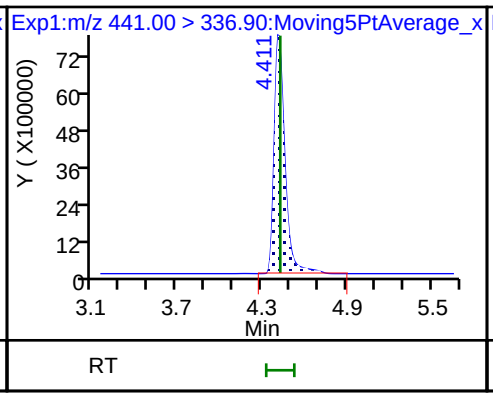

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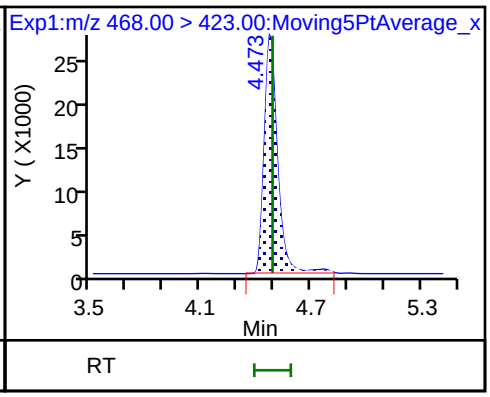
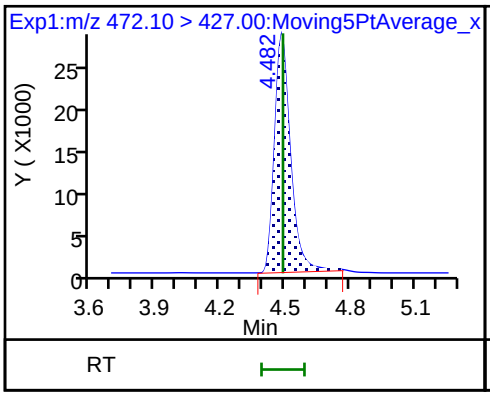


D 38 13C9 PFNA



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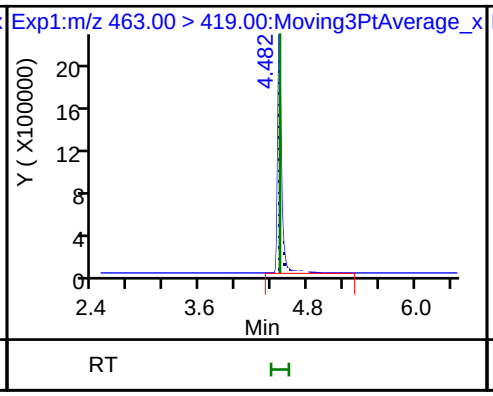

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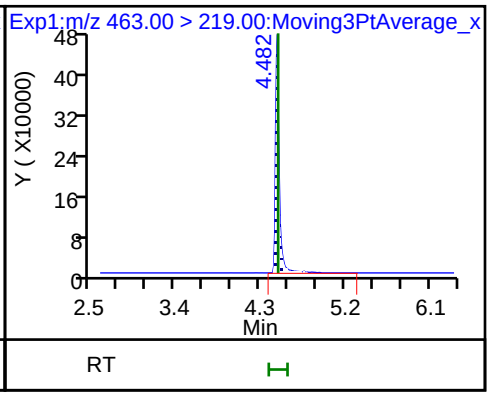

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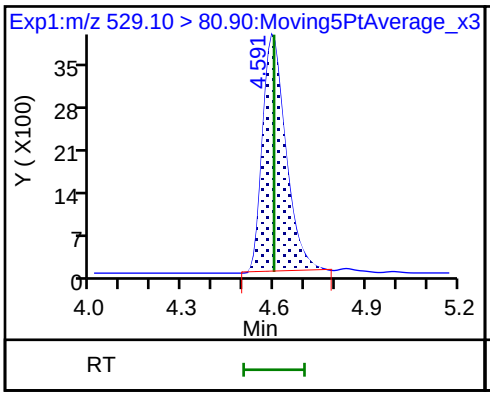

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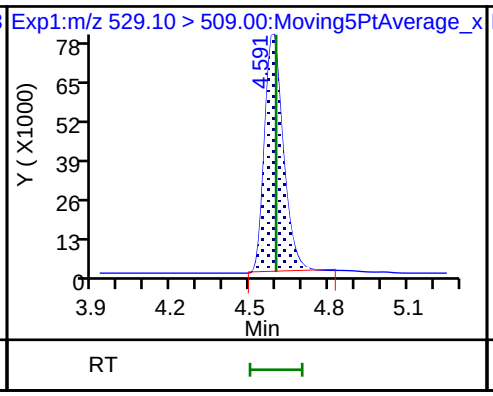

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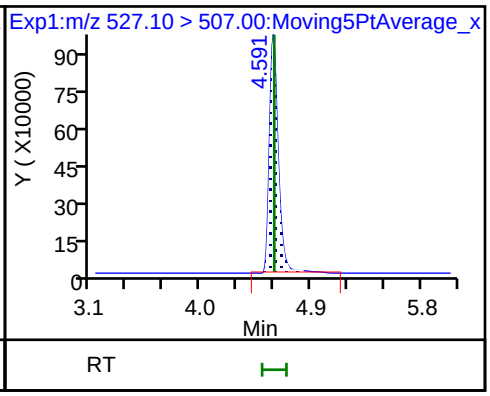

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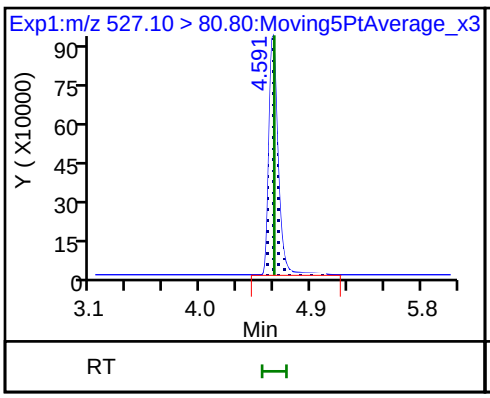

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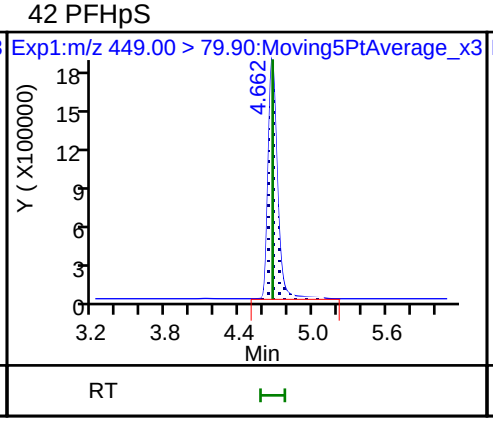

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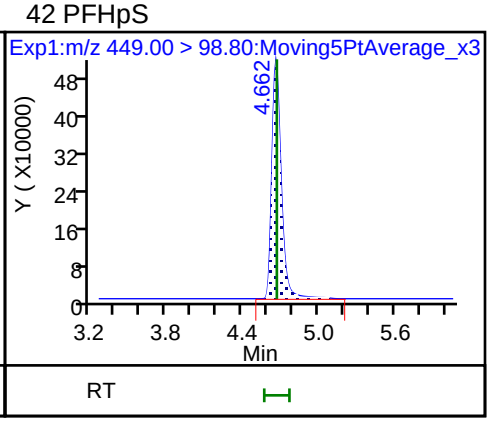
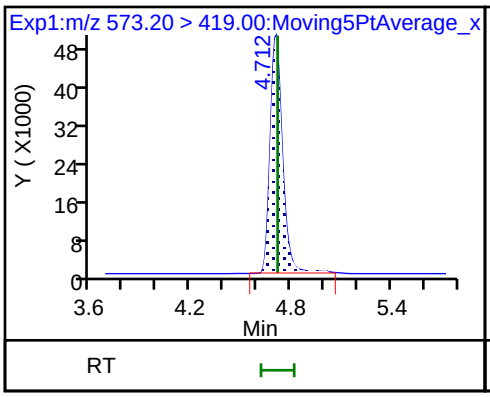
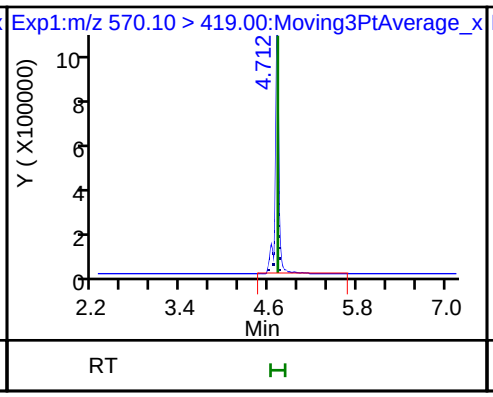


D 44 d3-NMeFOSAA



43 NMeFOSAA



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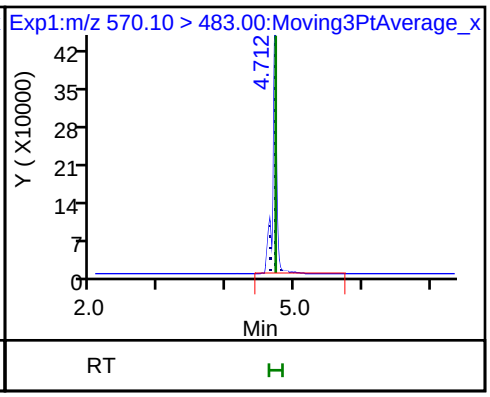
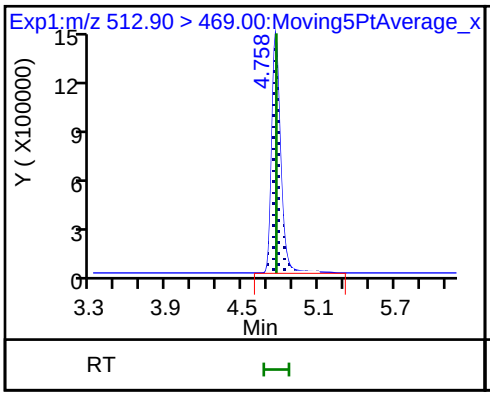


45 PFDA



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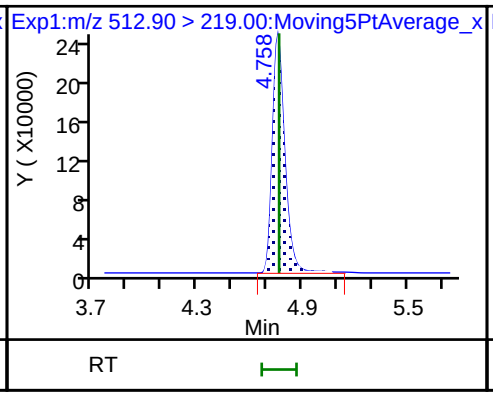

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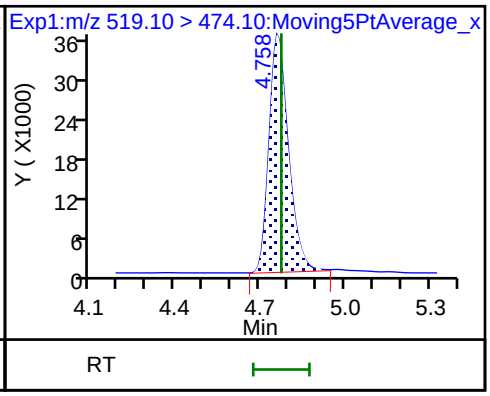

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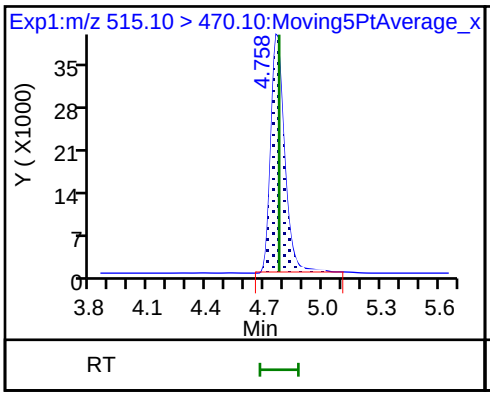

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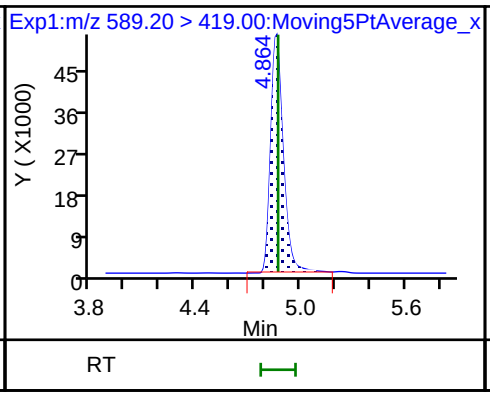
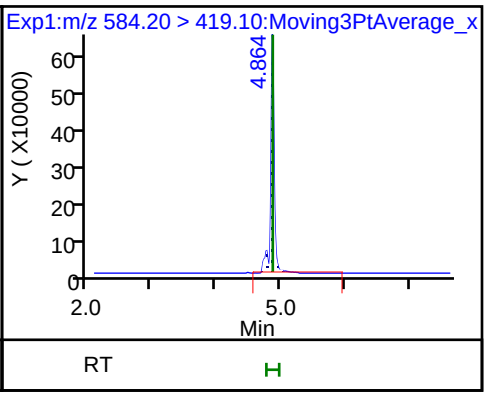
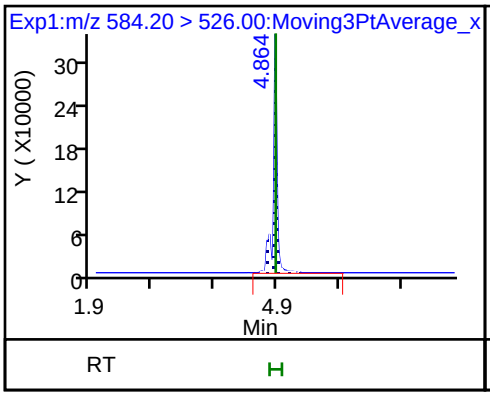


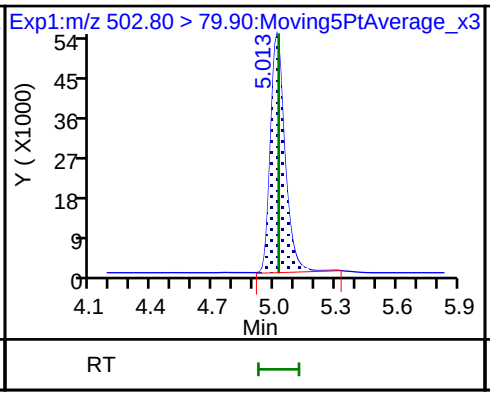
48 NEtFOSAA



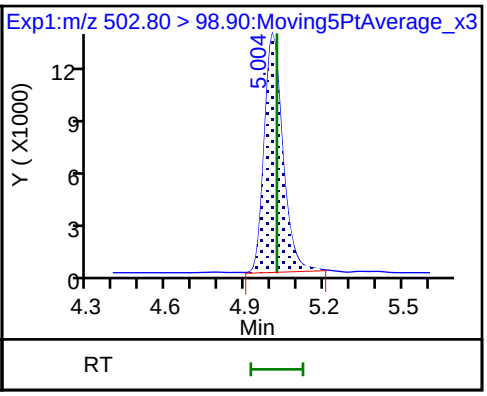
48 NEtFOSAA



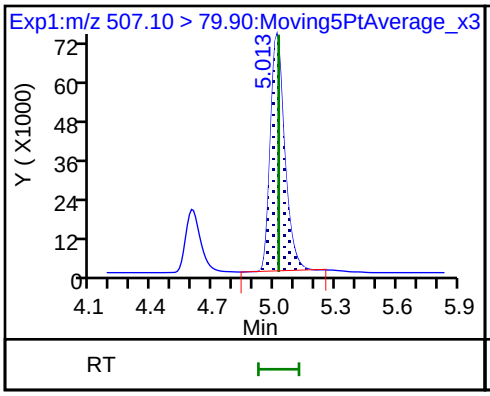
* 52 13C4 PFOS



* 52 13C4 PFOS



D 51 13C8 PFOS



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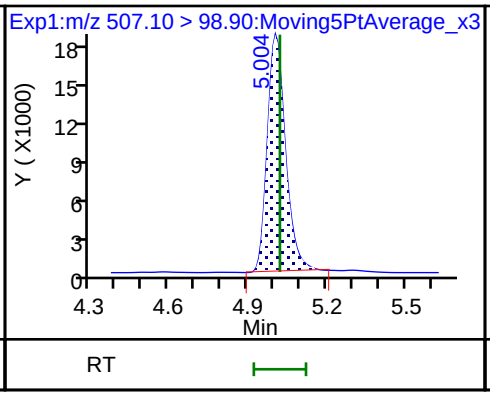
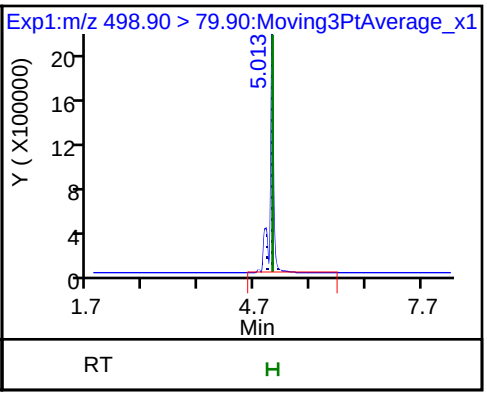
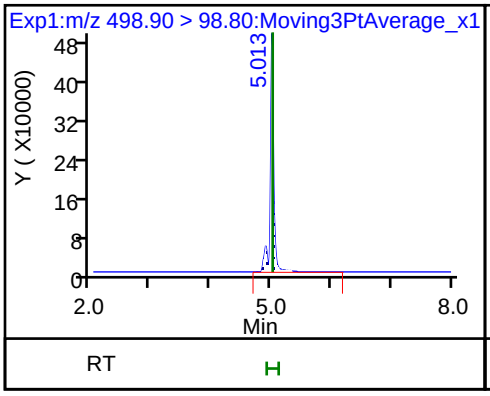


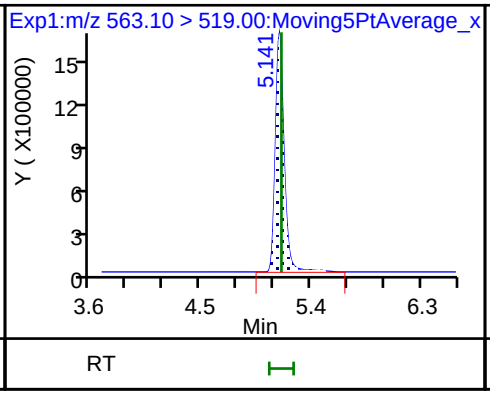
50 PFOS



50 PFOS



53 PFUnA



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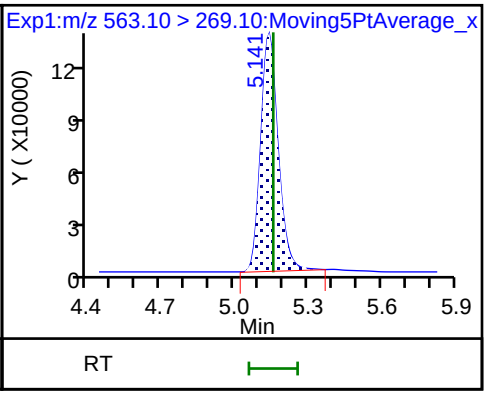
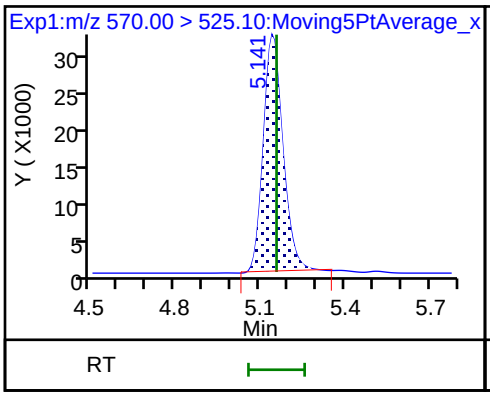
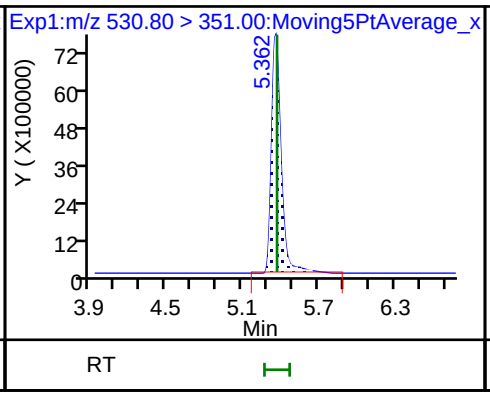


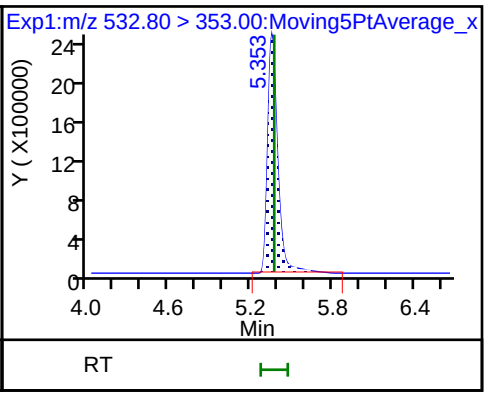
D 54 13C7 PFUnA



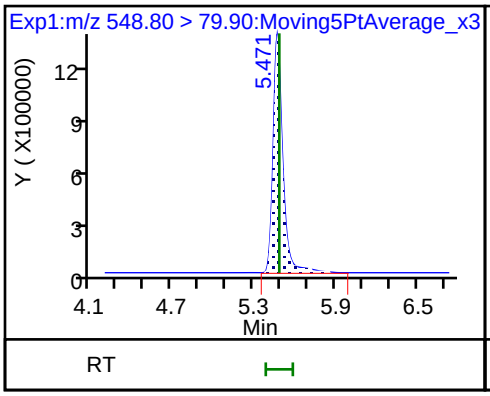
55 9ClFOS



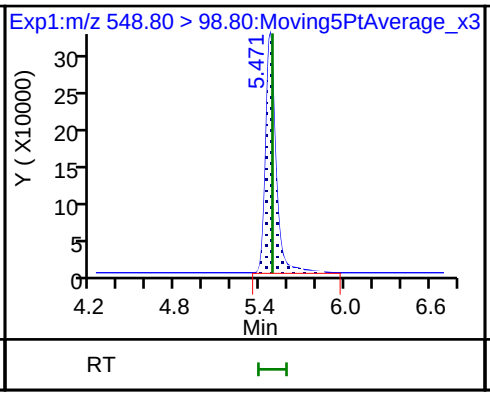
55 9ClFOS



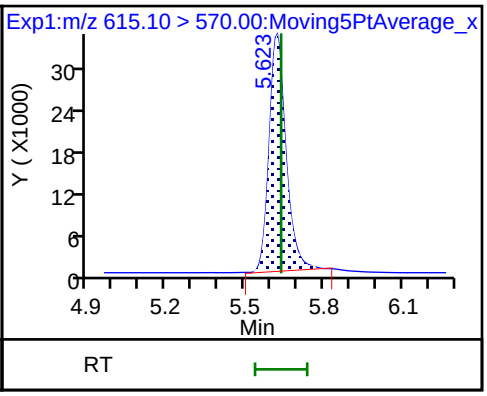
56 PFNS



56 PFNS



D 58 PFDoDA



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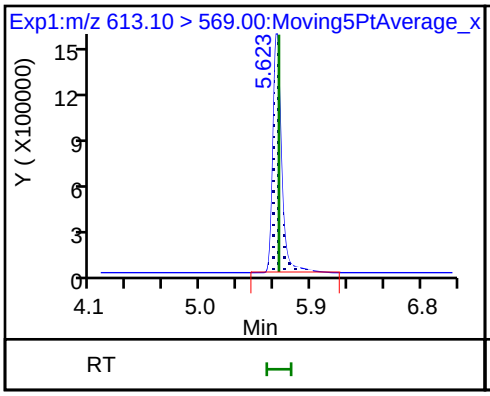

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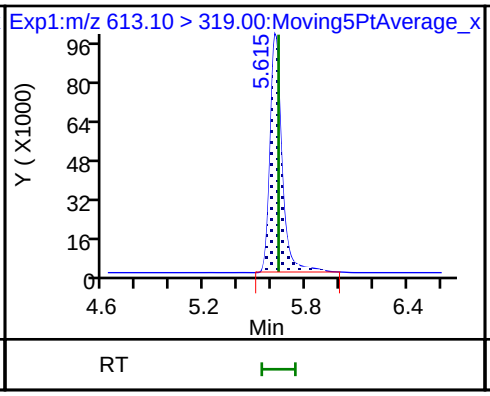

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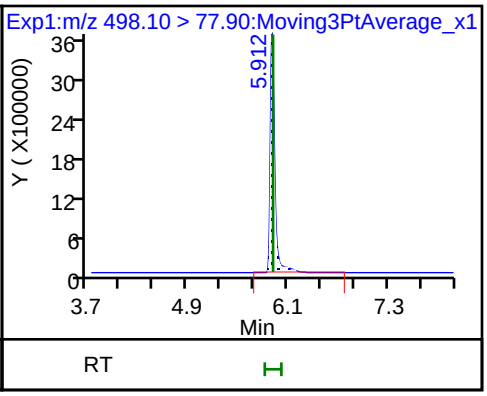

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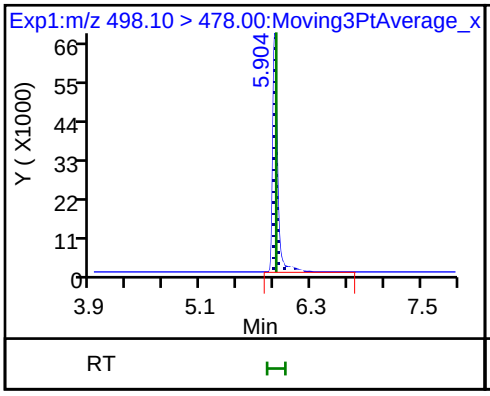
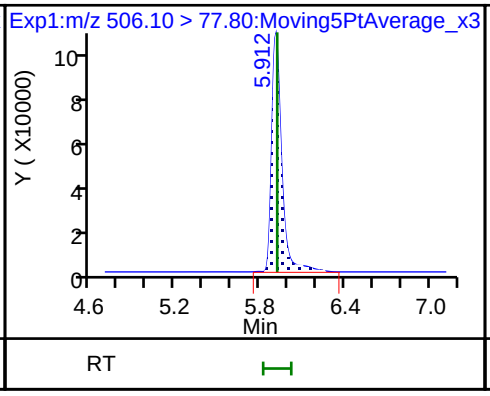
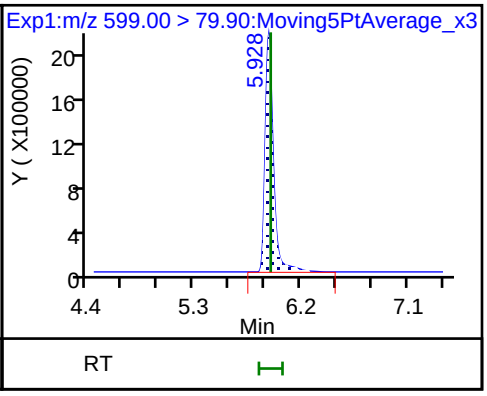


D 59 13C8 FOSA



61 PFDS



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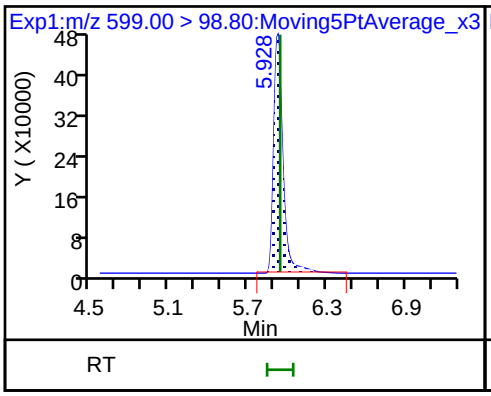
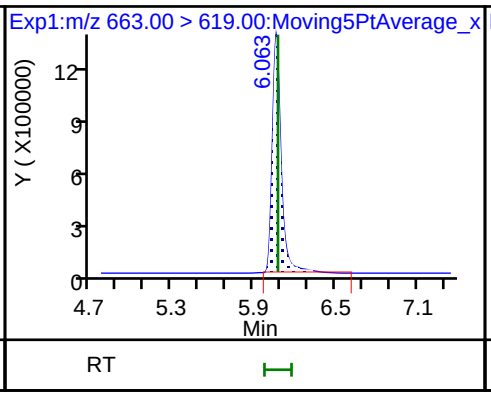
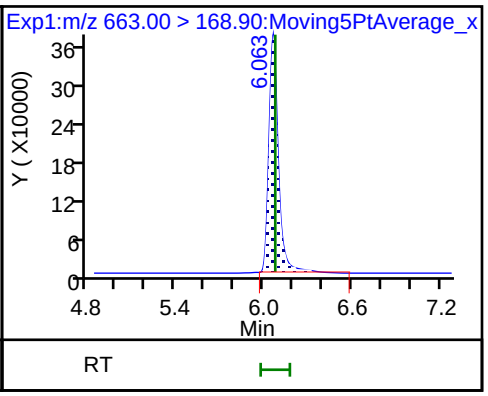


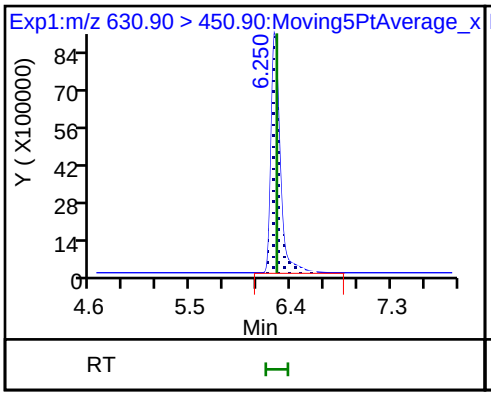
62 PFTrDA



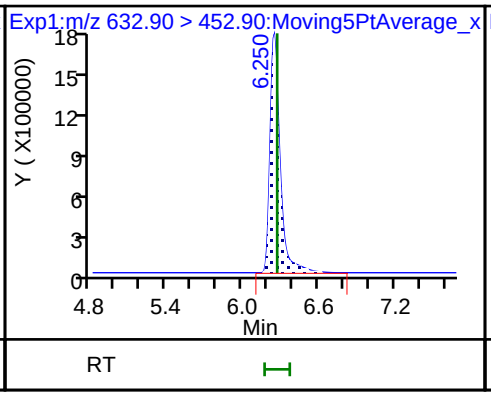
62 PFTrDA



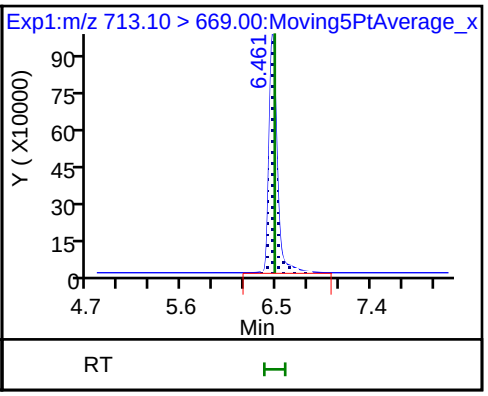
63 11ClFOS



63 11ClFOS



64 PFTeDA



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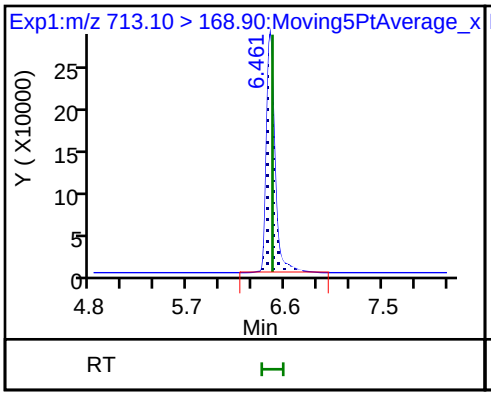
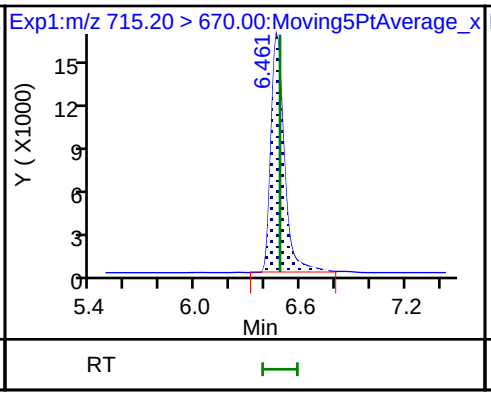
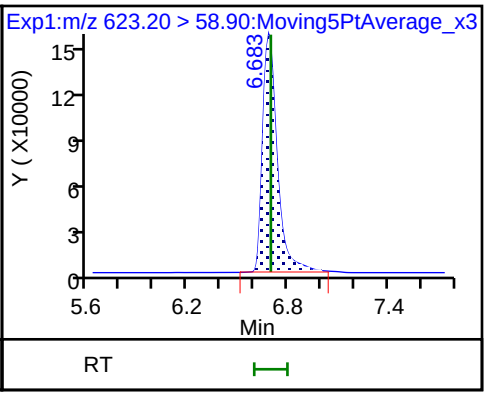


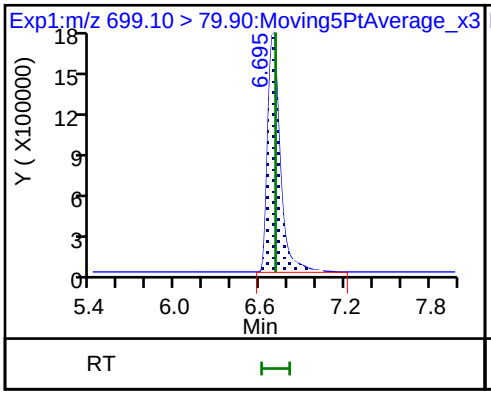
D 65 13C2 PFTeDA



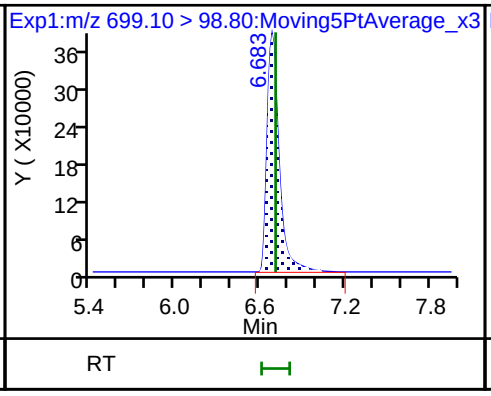
D 67 d7-N-Me-FOSE



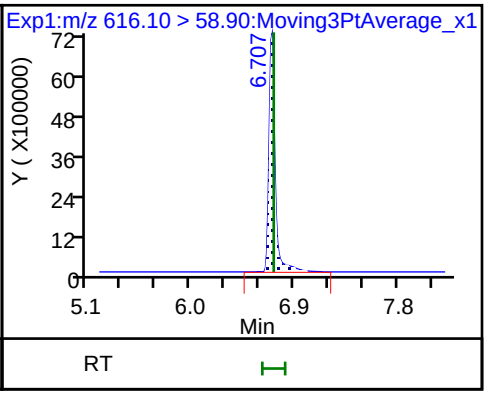
66 PFDoS



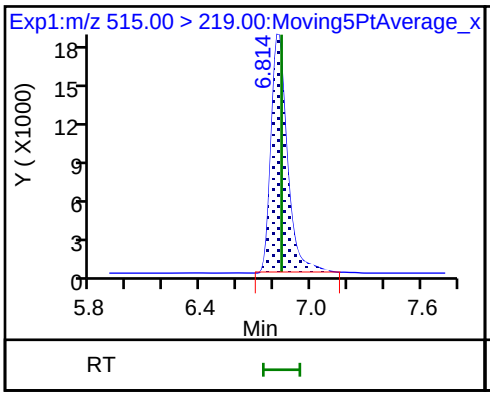
66 PFDoS



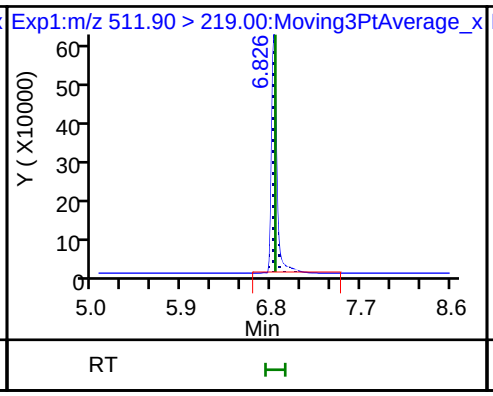
68 N-MeFOSE-M



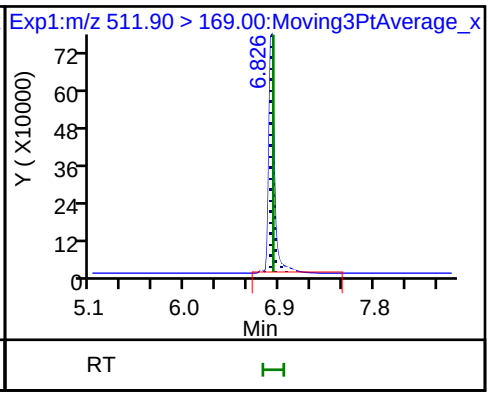
D 69 d3-NMePFOSA



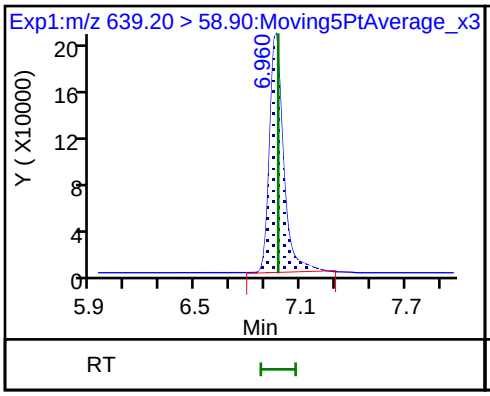
70 NMeFOSA



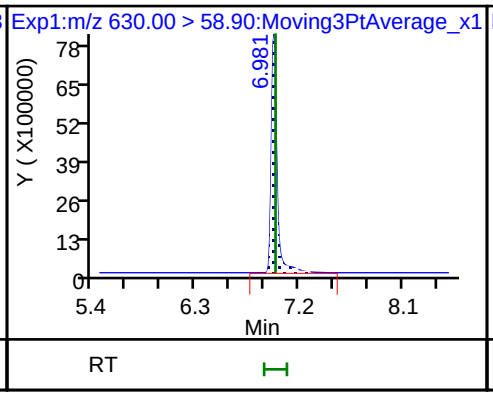
70 NMeFOSA



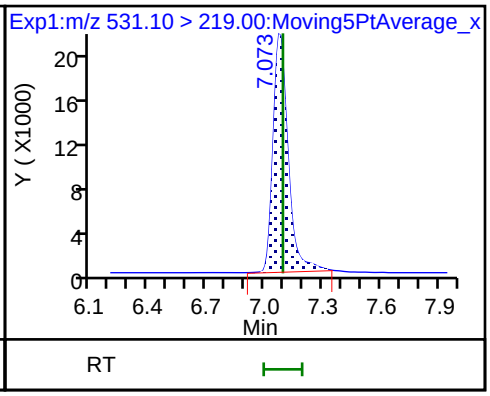
D 71 d9-N-EtFOSE



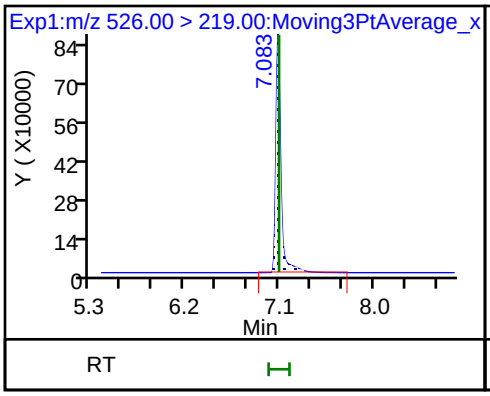
72 N-EtFOSE-M



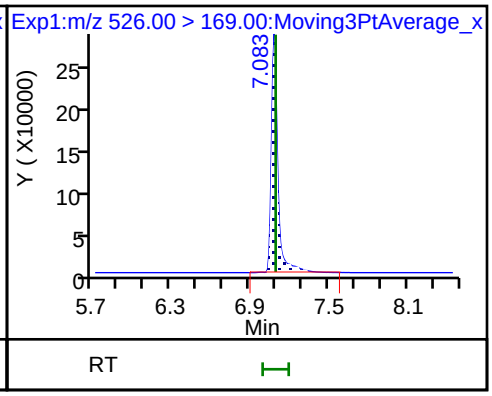
D 73 d5-NEtPFOSA



74 N-EtFOSA-M



74 N-EtFOSA-M



Calibration / Perfluorobutanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

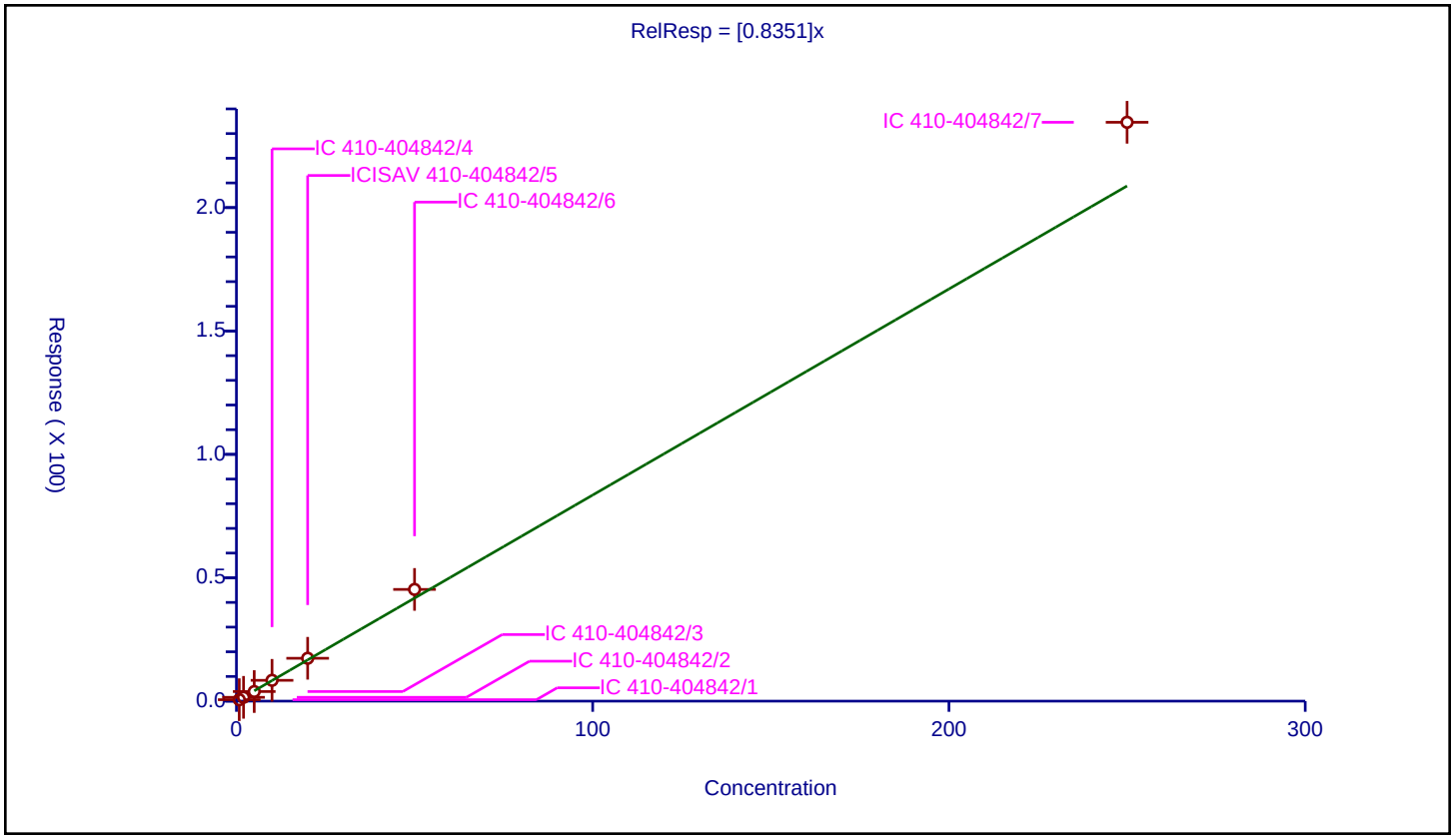
Curve Coefficients

Intercept:	0
Slope:	0.8351

Error Coefficients

Standard Error:	10200000
Relative Standard Error:	8.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	0.8	0.591302	10.0	1205137.0	0.739128	Y
2	IC 410-404842/2	2.0	1.544395	10.0	1220167.0	0.772198	Y
3	IC 410-404842/3	5.0	3.895202	10.0	1185361.0	0.77904	Y
4	IC 410-404842/4	10.0	8.429693	10.0	1219163.0	0.842969	Y
5	ICISAV 410-404842/5	20.0	17.371469	10.0	1147637.0	0.868573	Y
6	IC 410-404842/6	50.0	45.269127	10.0	1189514.0	0.905383	Y
7	IC 410-404842/7	250.0	234.569733	10.0	1036089.0	0.938279	Y



Calibration / 3:3 FTCA

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

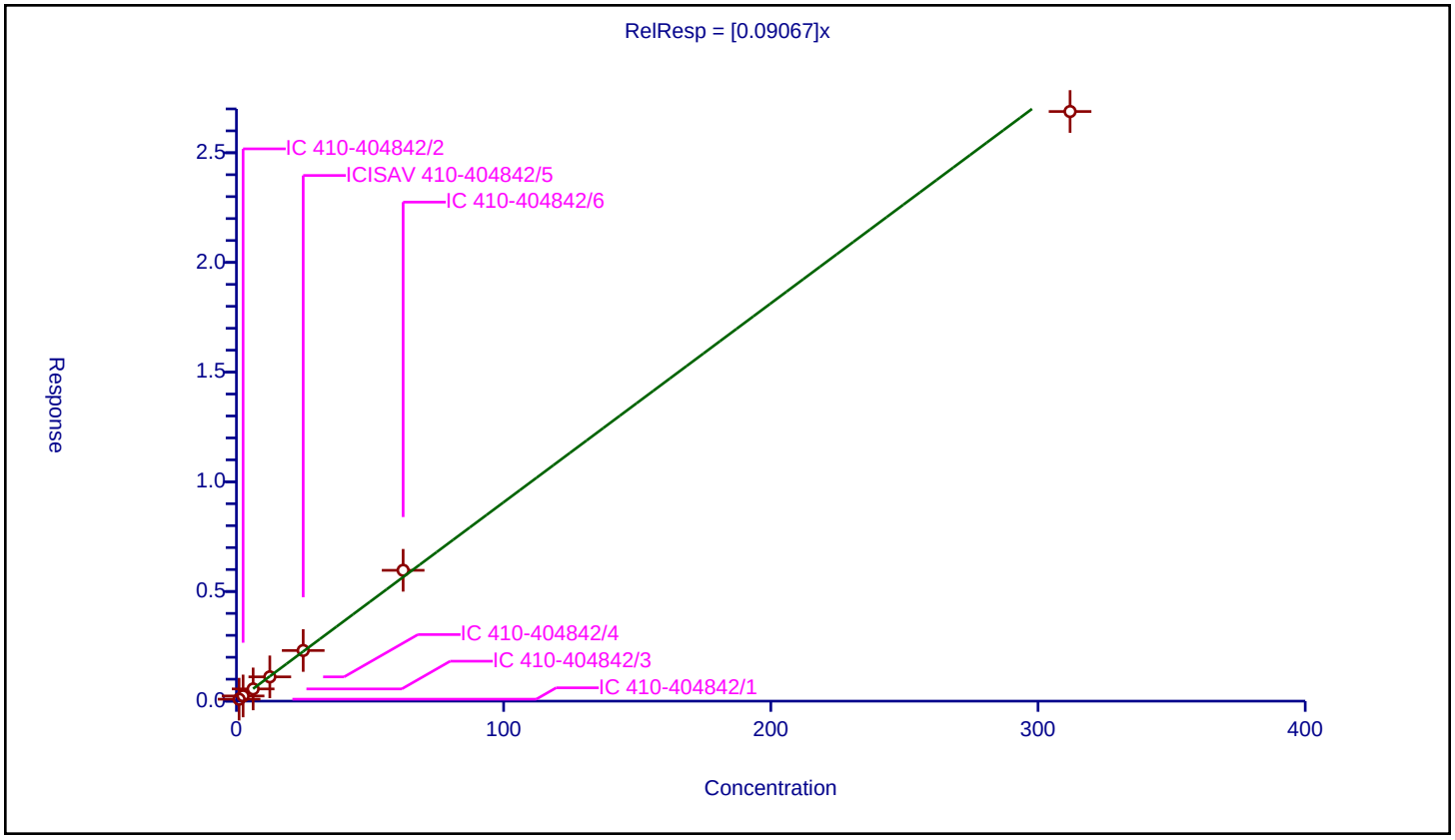
Curve Coefficients

Intercept:	0
Slope:	0.09067

Error Coefficients

Standard Error:	822000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	1.0	0.088841	5.0	349724.0	0.088841	Y
2	IC 410-404842/2	2.5	0.235979	5.0	325877.0	0.094391	Y
3	IC 410-404842/3	6.26	0.556264	5.0	329205.0	0.08886	Y
4	IC 410-404842/4	12.5	1.106362	5.0	335044.0	0.088509	Y
5	ICISAV 410-404842/5	25.0	2.308968	5.0	335245.0	0.092359	Y
6	IC 410-404842/6	62.4	5.96544	5.0	347945.0	0.0956	Y
7	IC 410-404842/7	312.0	26.88046	5.0	365126.0	0.086155	Y



Calibration / Perfluoro-3-methoxypropanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

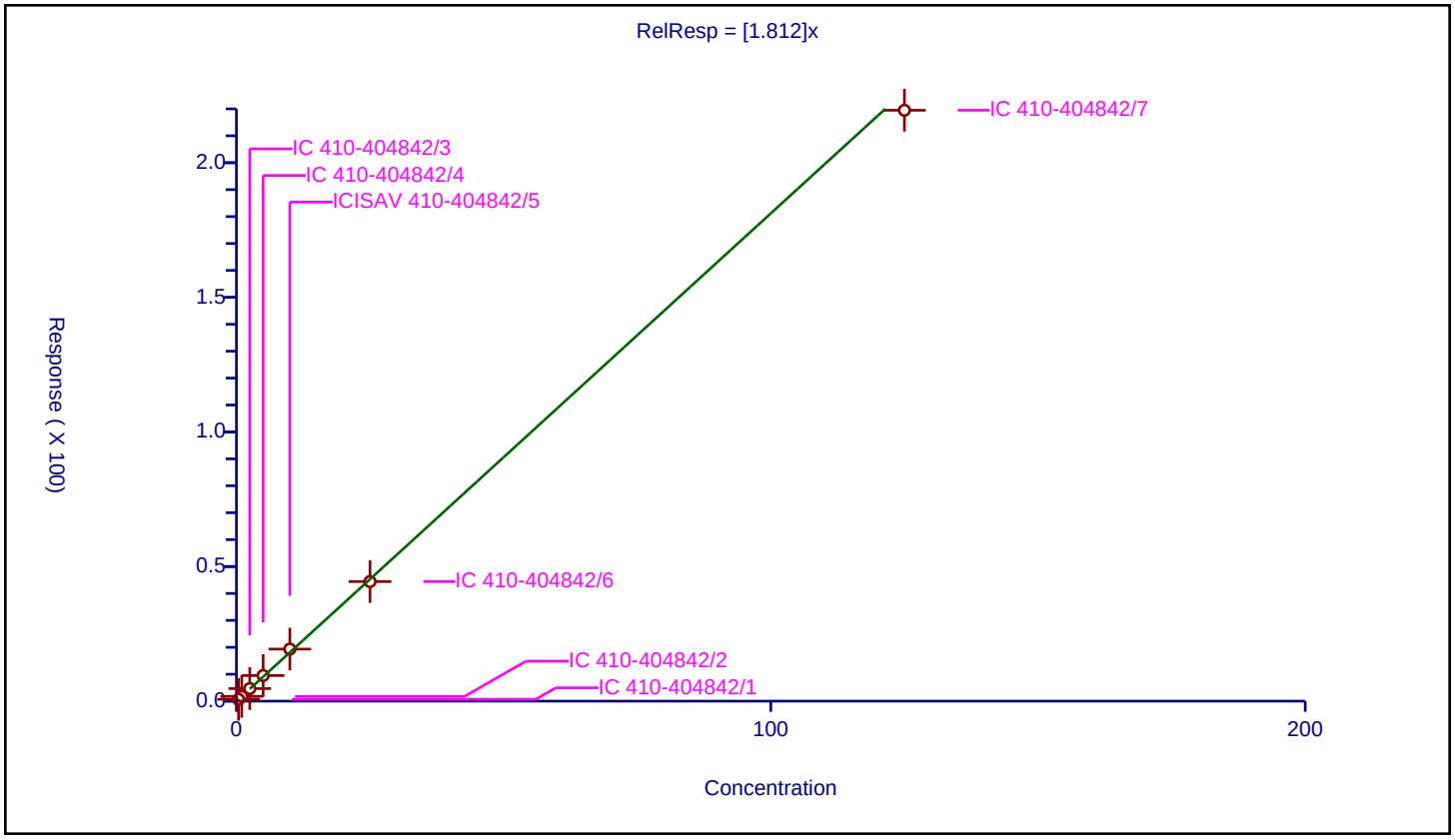
Curve Coefficients

Intercept:	0
Slope:	1.812

Error Coefficients

Standard Error:	6690000
Relative Standard Error:	4.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	0.4	0.674675	5.0	349724.0	1.686687	Y
2	IC 410-404842/2	1.0	1.763963	5.0	325877.0	1.763963	Y
3	IC 410-404842/3	2.5	4.661093	5.0	329205.0	1.864437	Y
4	IC 410-404842/4	5.0	9.508662	5.0	335044.0	1.901732	Y
5	ICISAV 410-404842/5	10.0	19.34008	5.0	335245.0	1.934008	Y
6	IC 410-404842/6	25.0	44.412594	5.0	347945.0	1.776504	Y
7	IC 410-404842/7	125.0	219.486588	5.0	365126.0	1.755893	Y



Calibration / Perfluoropentanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

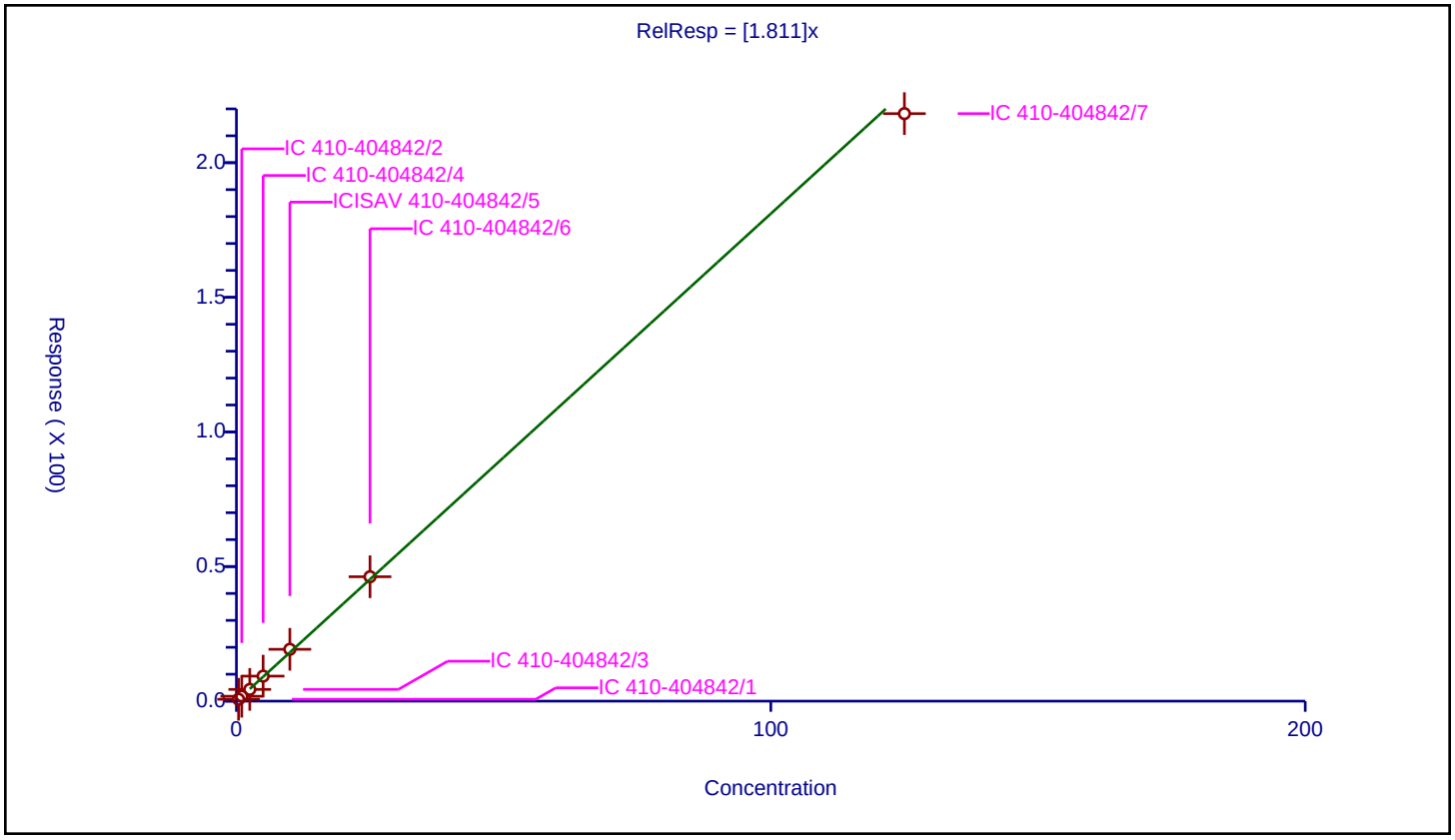
Curve Coefficients

Intercept:	0
Slope:	1.811

Error Coefficients

Standard Error:	6660000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	0.4	0.694562	5.0	349724.0	1.736405	Y
2	IC 410-404842/2	1.0	1.816913	5.0	325877.0	1.816913	Y
3	IC 410-404842/3	2.5	4.356936	5.0	329205.0	1.742774	Y
4	IC 410-404842/4	5.0	9.291198	5.0	335044.0	1.85824	Y
5	ICISAV 410-404842/5	10.0	19.256827	5.0	335245.0	1.925683	Y
6	IC 410-404842/6	25.0	46.212232	5.0	347945.0	1.848489	Y
7	IC 410-404842/7	125.0	218.241114	5.0	365126.0	1.745929	Y



Calibration / Perfluoro(4-methoxybutanoic acid)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

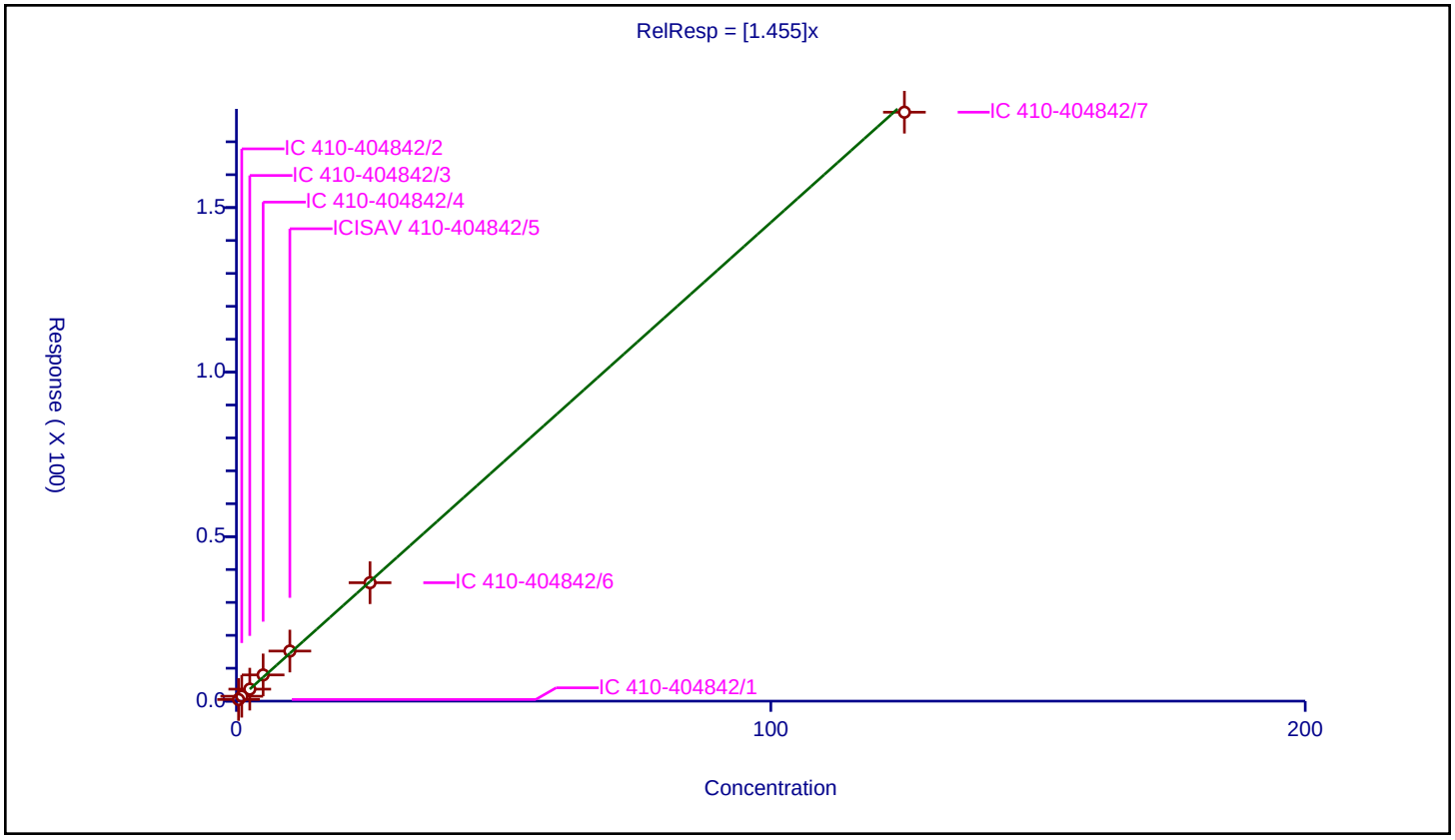
Curve Coefficients

Intercept:	0
Slope:	1.455

Error Coefficients

Standard Error:	5450000
Relative Standard Error:	7.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	0.4	0.500209	5.0	349724.0	1.250522	Y
2	IC 410-404842/2	1.0	1.4882	5.0	325877.0	1.4882	Y
3	IC 410-404842/3	2.5	3.645343	5.0	329205.0	1.458137	Y
4	IC 410-404842/4	5.0	7.969311	5.0	335044.0	1.593862	Y
5	ICISAV 410-404842/5	10.0	15.219466	5.0	335245.0	1.521947	Y
6	IC 410-404842/6	25.0	35.990113	5.0	347945.0	1.439605	Y
7	IC 410-404842/7	125.0	178.995306	5.0	365126.0	1.431962	Y



Calibration / 1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

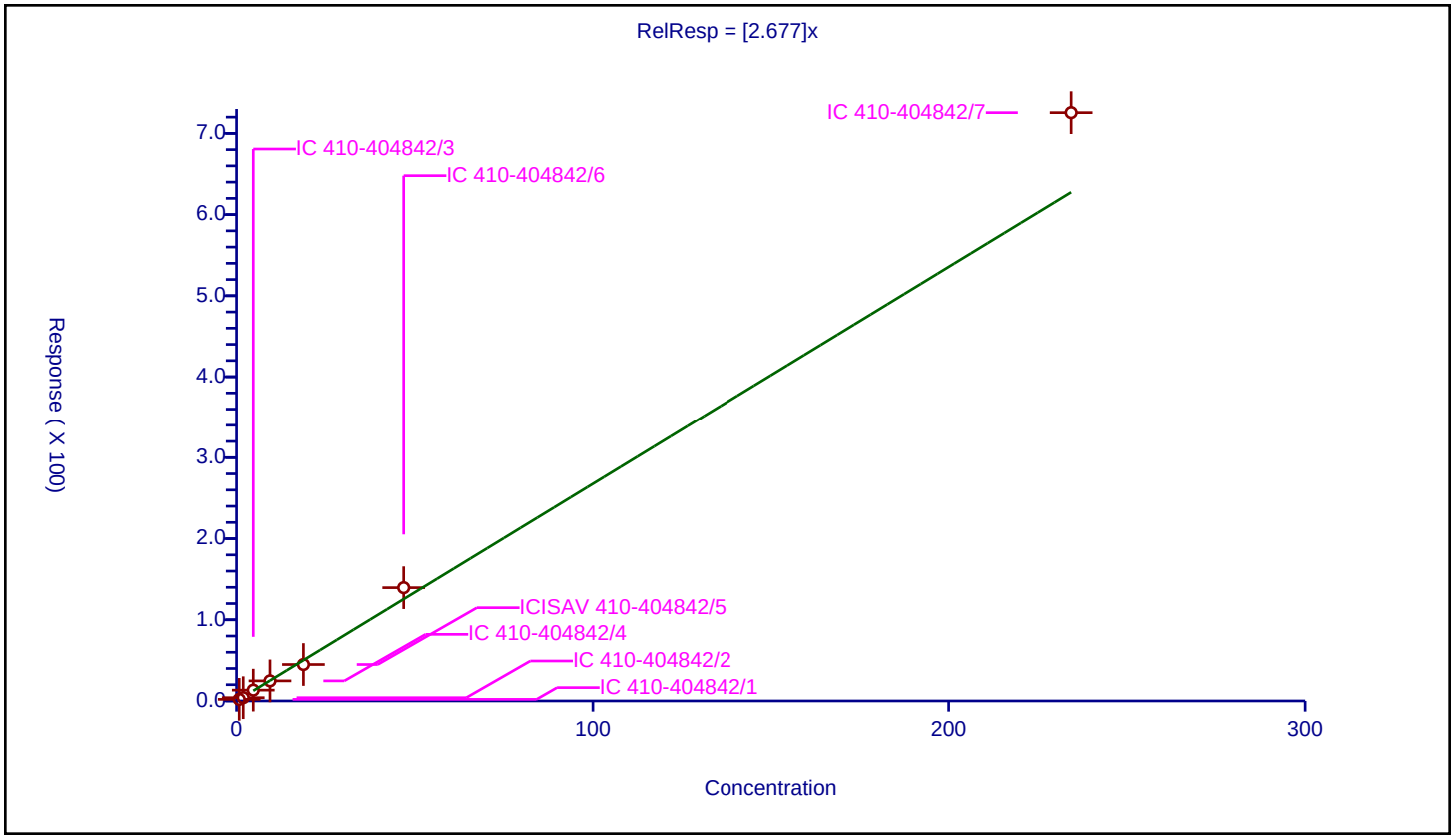
Curve Coefficients

Intercept:	0
Slope:	2.677

Error Coefficients

Standard Error:	3440000
Relative Standard Error:	12.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	0.75	1.986464	4.69	52749.0	2.648618	Y
2	IC 410-404842/2	1.875	4.022753	4.69	64975.0	2.145468	Y
3	IC 410-404842/3	4.6875	13.3321	4.69	56205.0	2.844181	Y
4	IC 410-404842/4	9.375	24.724785	4.69	64159.0	2.63731	Y
5	ICISAV 410-404842/5	18.75	44.88016	4.69	63053.0	2.393609	Y
6	IC 410-404842/6	46.875	139.568911	4.69	56288.0	2.97747	Y
7	IC 410-404842/7	234.375	725.517818	4.69	53116.0	3.095543	Y



Calibration / Perfluoro-3,6-dioxaheptanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

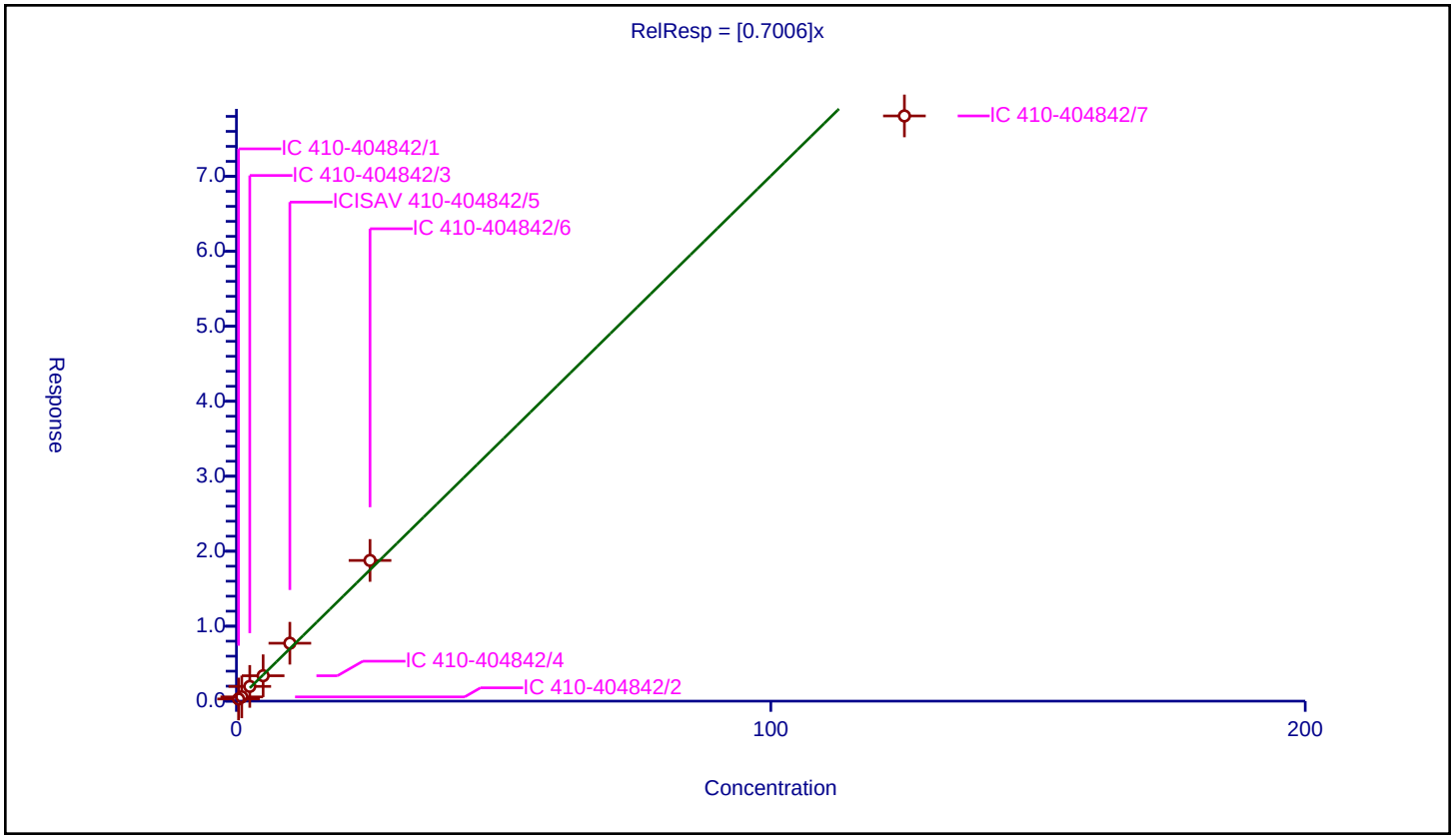
Curve Coefficients

Intercept:	0
Slope:	0.7006

Error Coefficients

Standard Error:	594000
Relative Standard Error:	11.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	0.4	0.290632	2.5	40971.0	0.726581	Y
2	IC 410-404842/2	1.0	0.566602	2.5	42018.0	0.566602	Y
3	IC 410-404842/3	2.5	1.965229	2.5	40709.0	0.786092	Y
4	IC 410-404842/4	5.0	3.38815	2.5	43250.0	0.67763	Y
5	ICISAV 410-404842/5	10.0	7.723649	2.5	38699.0	0.772365	Y
6	IC 410-404842/6	25.0	18.768915	2.5	39321.0	0.750757	Y
7	IC 410-404842/7	125.0	78.061191	2.5	45448.0	0.62449	Y



Calibration / Perfluorohexanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

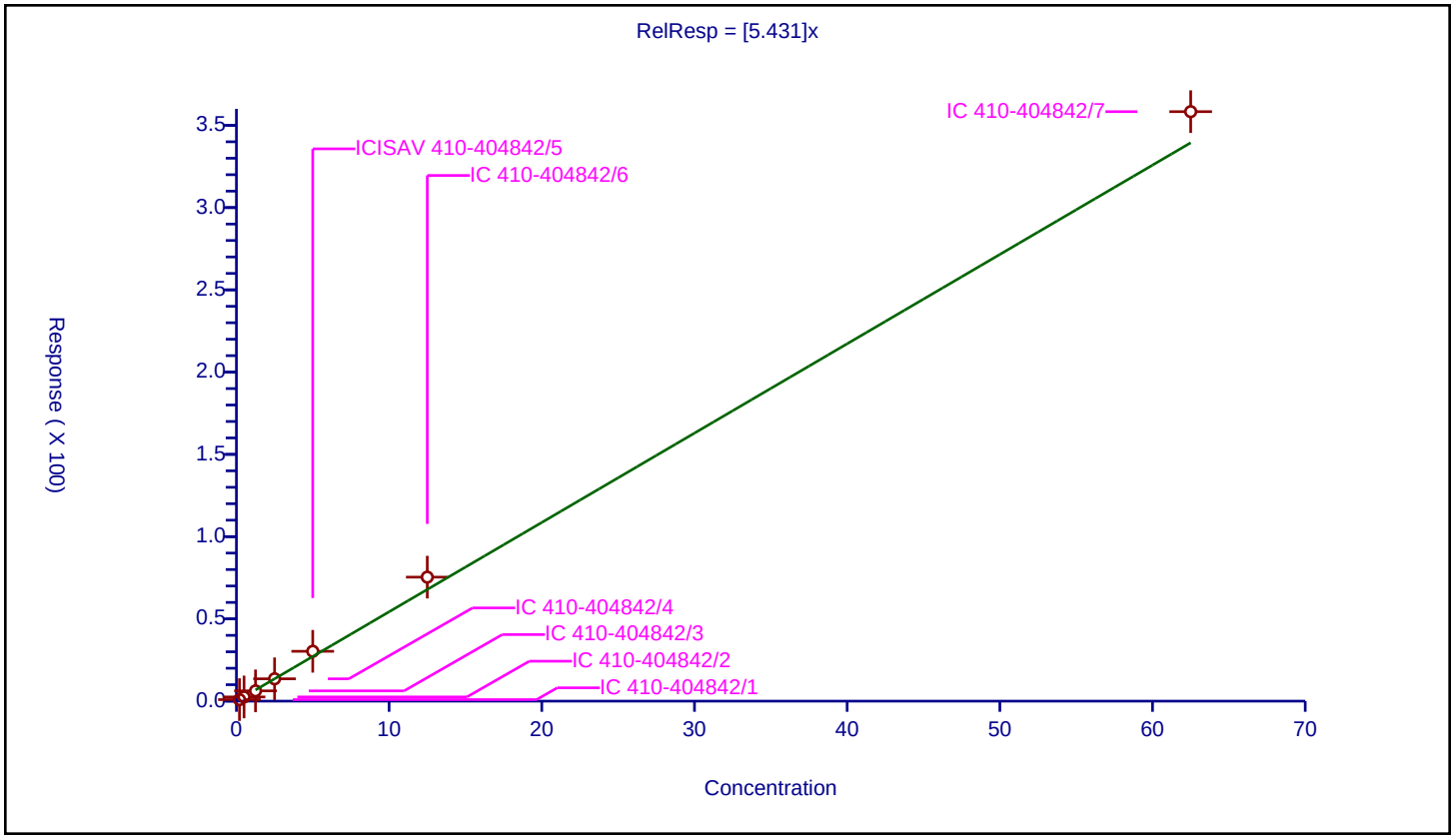
Curve Coefficients

Intercept:	0
Slope:	5.431

Error Coefficients

Standard Error:	2710000
Relative Standard Error:	9.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	0.2	0.935418	2.5	40971.0	4.677089	Y
2	IC 410-404842/2	0.5	2.542958	2.5	42018.0	5.085916	Y
3	IC 410-404842/3	1.25	6.248495	2.5	40709.0	4.998796	Y
4	IC 410-404842/4	2.5	13.572717	2.5	43250.0	5.429087	Y
5	ICISAV 410-404842/5	5.0	30.302075	2.5	38699.0	6.060415	Y
6	IC 410-404842/6	12.5	75.374418	2.5	39321.0	6.029953	Y
7	IC 410-404842/7	62.5	358.309387	2.5	45448.0	5.73295	Y



Calibration / 5:3 FTCA

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

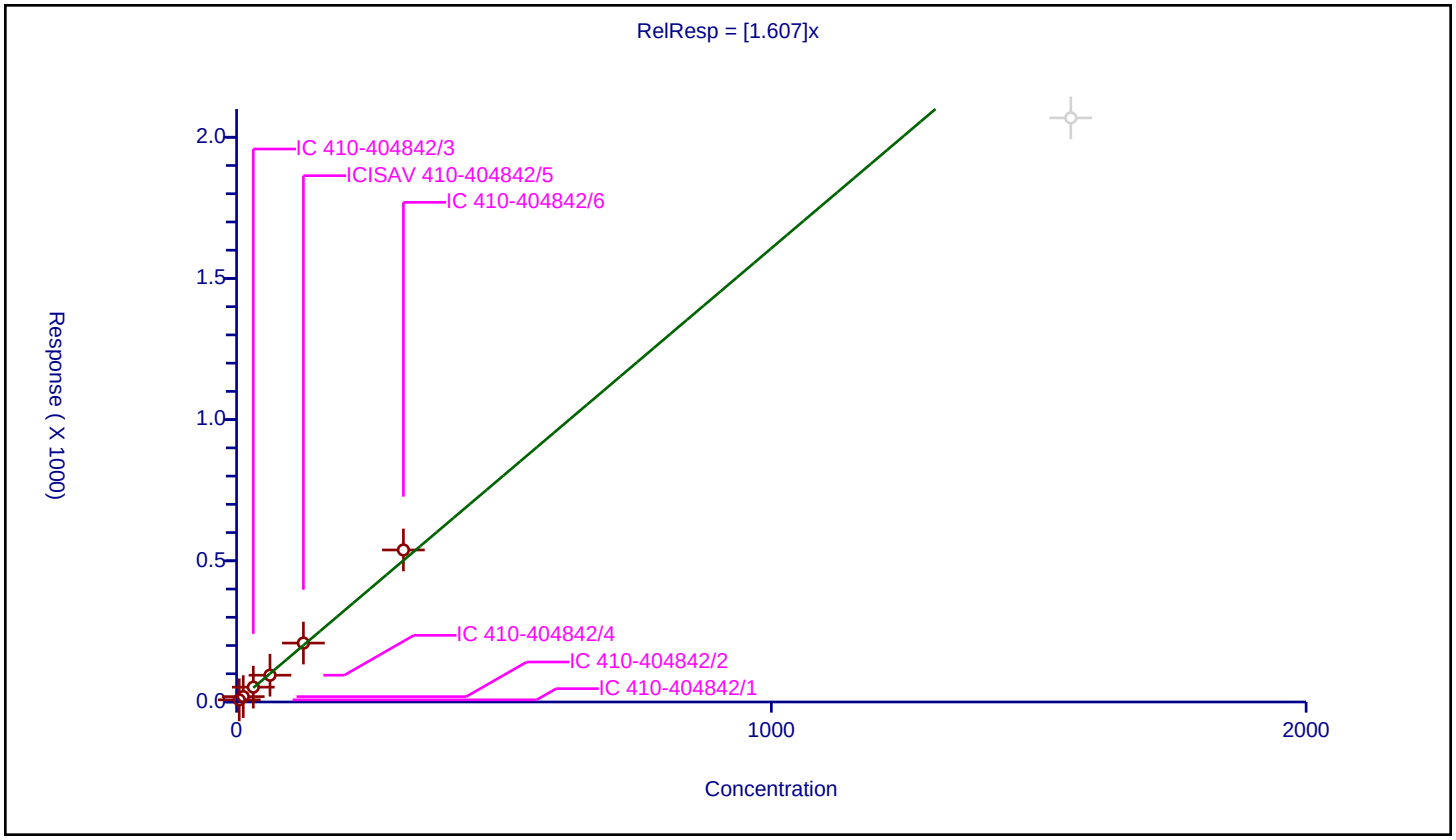
Curve Coefficients

Intercept:	0
Slope:	1.607

Error Coefficients

Standard Error:	4140000
Relative Standard Error:	5.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	5.0	7.637536	2.5	40971.0	1.527507	Y
2	IC 410-404842/2	12.5	19.006438	2.5	42018.0	1.520515	Y
3	IC 410-404842/3	31.3	52.590582	2.5	40709.0	1.68021	Y
4	IC 410-404842/4	62.5	94.901098	2.5	43250.0	1.518418	Y
5	ICISAV 410-404842/5	125.0	208.618634	2.5	38699.0	1.668949	Y
6	IC 410-404842/6	312.0	538.362135	2.5	39321.0	1.72552	Y
7	IC 410-404842/7	1560.0	2068.556152	2.5	45448.0	1.325998	N



Calibration / Perfluorobutanesulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

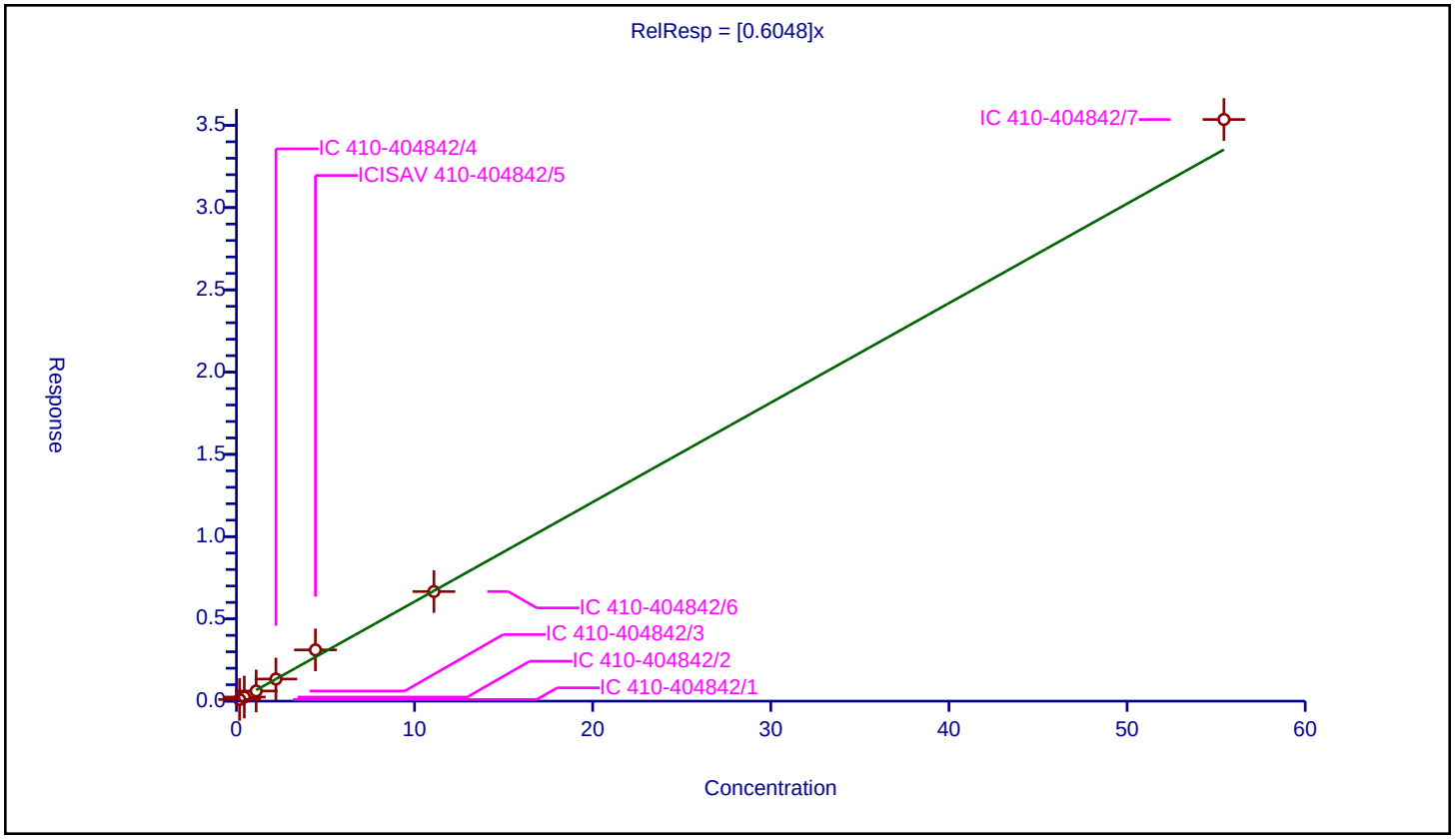
Curve Coefficients

Intercept:	0
Slope:	0.6048

Error Coefficients

Standard Error:	2290000
Relative Standard Error:	8.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	0.1774	0.100551	2.33	440805.0	0.566806	Y
2	IC 410-404842/2	0.4435	0.248965	2.33	442771.0	0.561365	Y
3	IC 410-404842/3	1.10875	0.618319	2.33	416704.0	0.557672	Y
4	IC 410-404842/4	2.2175	1.344284	2.33	419821.0	0.606216	Y
5	ICISAV 410-404842/5	4.435	3.116028	2.33	386200.0	0.702599	Y
6	IC 410-404842/6	11.0875	6.662495	2.33	413724.0	0.600902	Y
7	IC 410-404842/7	55.4375	35.355852	2.33	359565.0	0.637761	Y



Calibration / Perfluoro(2-propoxypropanoic) acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

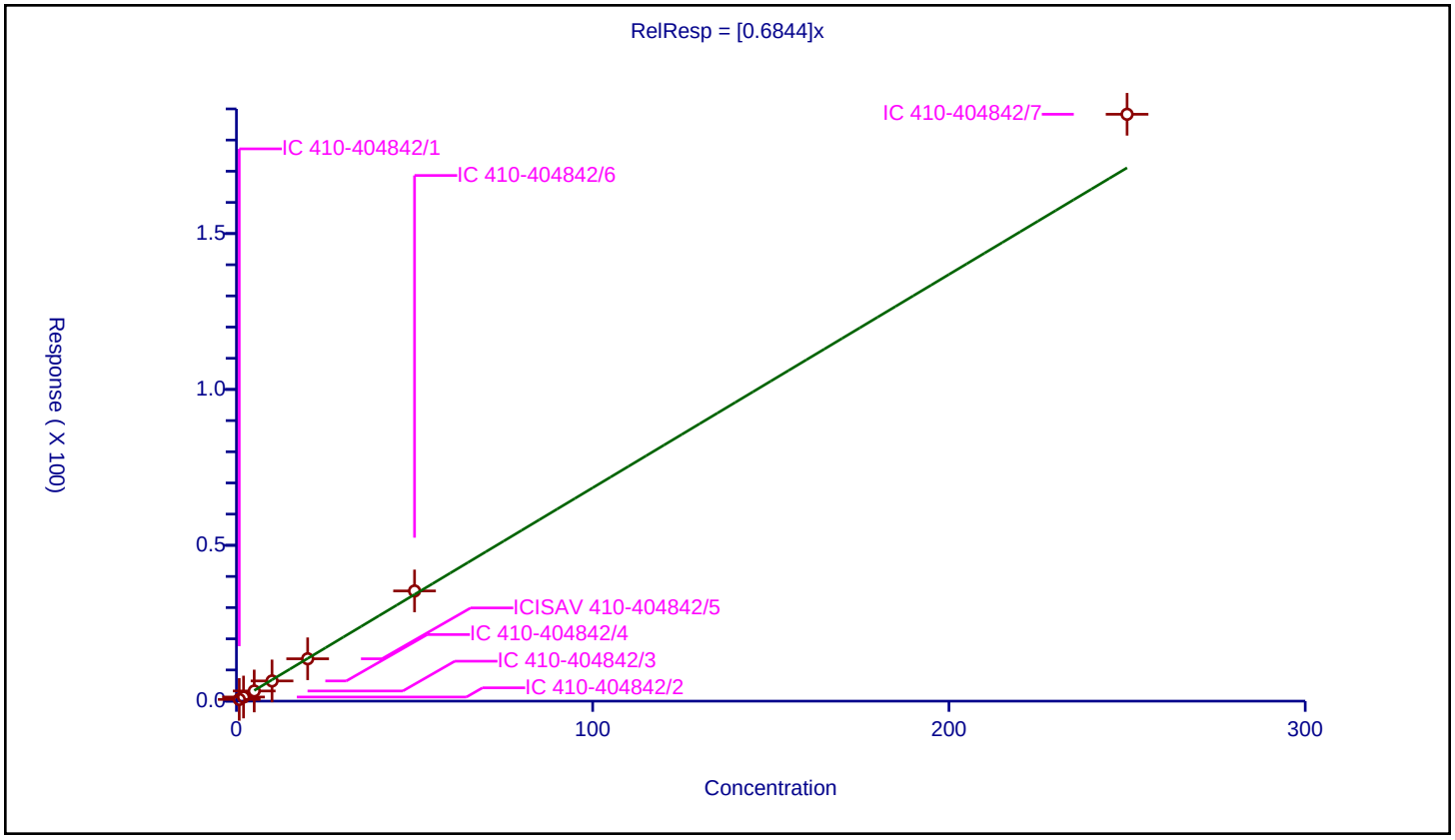
Curve Coefficients

Intercept:	0
Slope:	0.6844

Error Coefficients

Standard Error:	7450000
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	0.8	0.55378	10.0	1113222.0	0.692225	Y
2	IC 410-404842/2	2.0	1.318661	10.0	1058263.0	0.65933	Y
3	IC 410-404842/3	5.0	3.260734	10.0	1071866.0	0.652147	Y
4	IC 410-404842/4	10.0	6.47672	10.0	1098817.0	0.647672	Y
5	ICISAV 410-404842/5	20.0	13.591833	10.0	1000776.0	0.679592	Y
6	IC 410-404842/6	50.0	35.349575	10.0	1044812.0	0.706991	Y
7	IC 410-404842/7	250.0	188.270741	10.0	945827.0	0.753083	Y



Calibration / Perfluoro (2-ethoxyethane) sulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

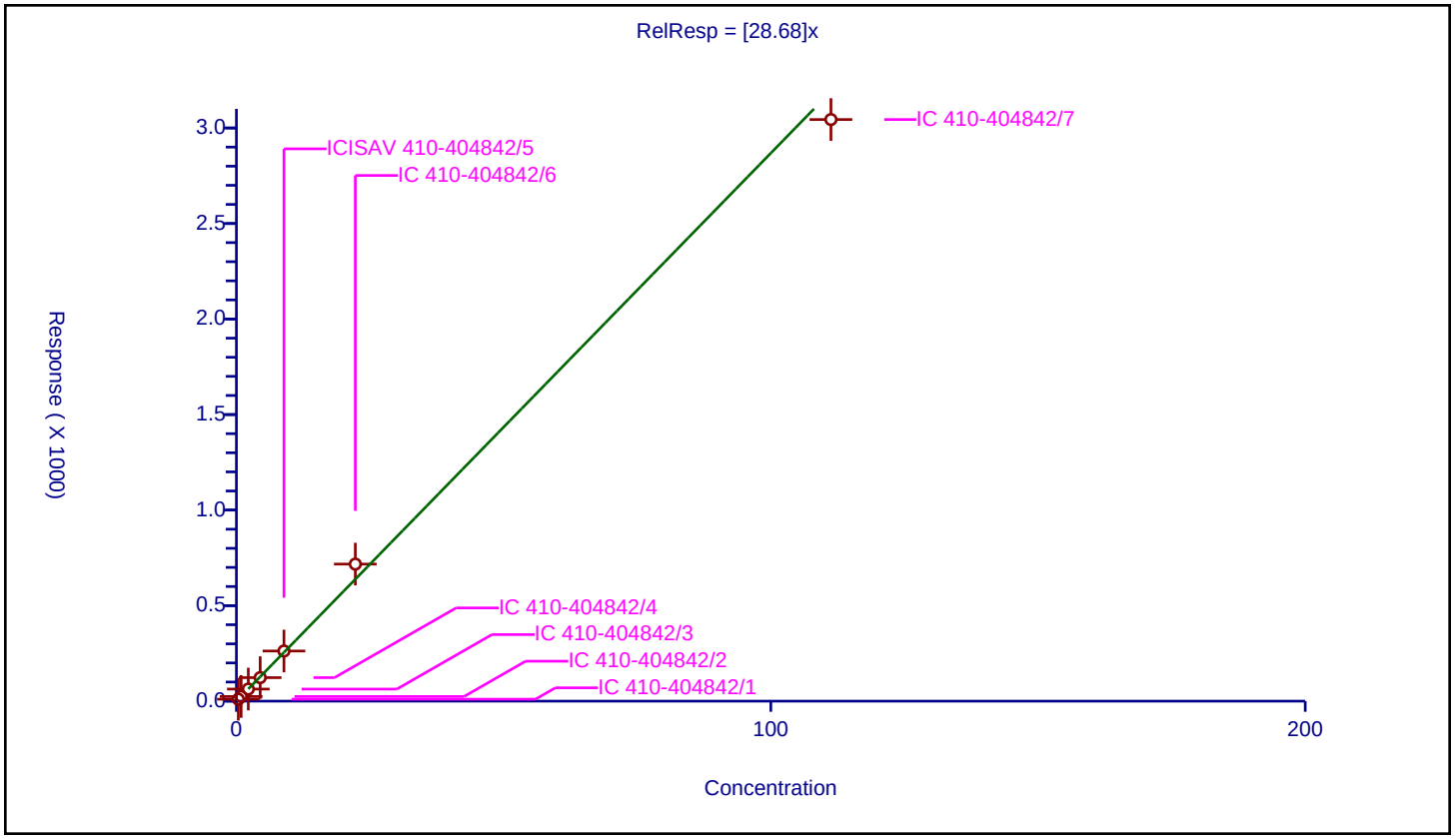
Curve Coefficients

Intercept:	0
Slope:	28.68

Error Coefficients

Standard Error:	23100000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	0.356	10.074138	2.5	40971.0	28.29814	Y
2	IC 410-404842/2	0.89	24.34415	2.5	42018.0	27.352978	Y
3	IC 410-404842/3	2.225	63.197389	2.5	40709.0	28.403321	Y
4	IC 410-404842/4	4.45	122.986416	2.5	43250.0	27.637397	Y
5	ICISAV 410-404842/5	8.9	262.465438	2.5	38699.0	29.490499	Y
6	IC 410-404842/6	22.25	717.297818	2.5	39321.0	32.238104	Y
7	IC 410-404842/7	111.25	3044.278736	2.5	45448.0	27.364303	Y



Calibration / Perfluoroheptanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

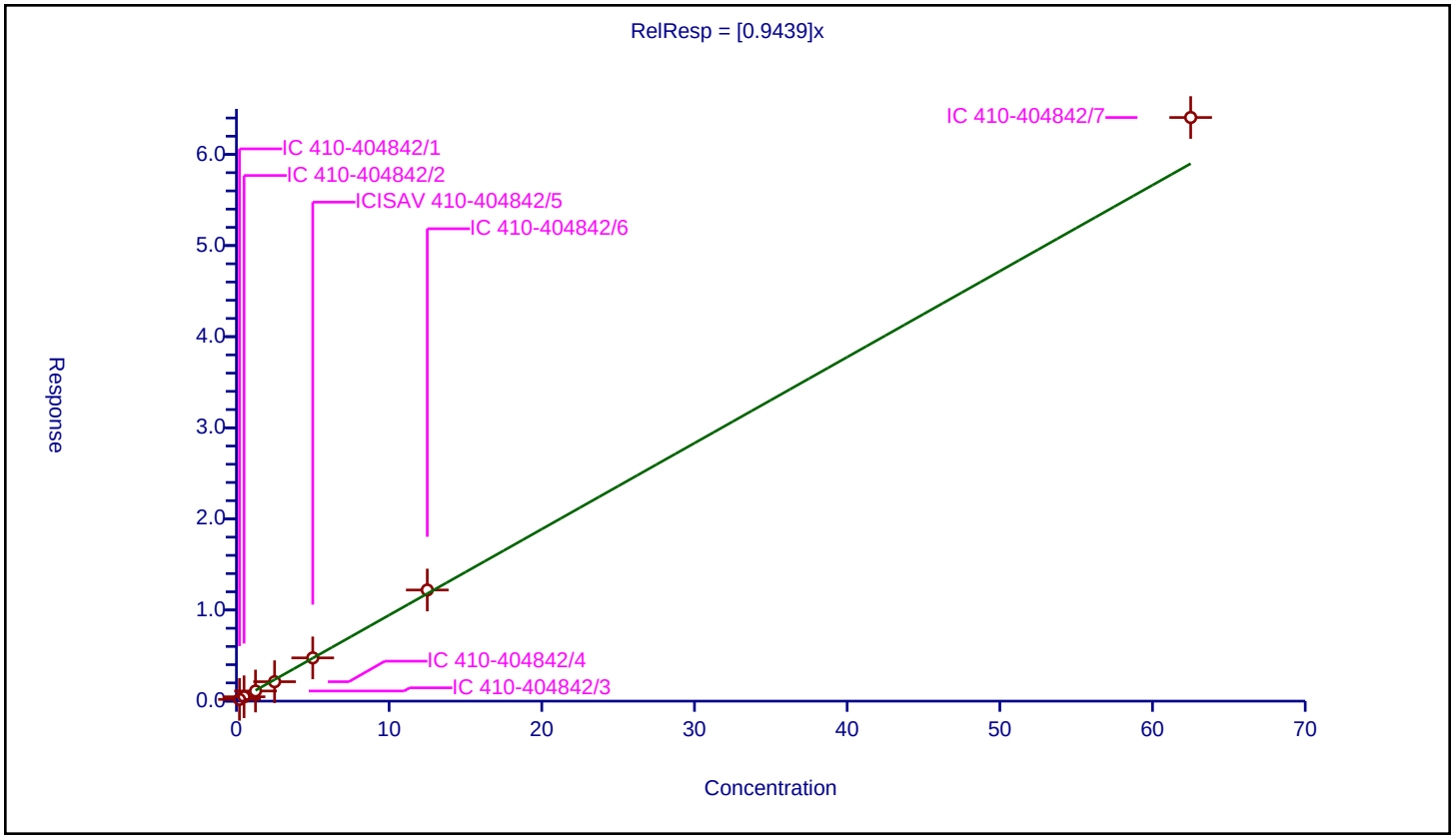
Curve Coefficients

Intercept:	0
Slope:	0.9439

Error Coefficients

Standard Error:	5020000
Relative Standard Error:	6.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	0.2	0.192373	2.5	495586.0	0.961866	Y
2	IC 410-404842/2	0.5	0.477047	2.5	508703.0	0.954093	Y
3	IC 410-404842/3	1.25	1.111292	2.5	515940.0	0.889034	Y
4	IC 410-404842/4	2.5	2.130954	2.5	521019.0	0.852382	Y
5	ICISAV 410-404842/5	5.0	4.746565	2.5	488715.0	0.949313	Y
6	IC 410-404842/6	12.5	12.197197	2.5	482038.0	0.975776	Y
7	IC 410-404842/7	62.5	64.056153	2.5	469324.0	1.024898	Y



Calibration / DONA

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

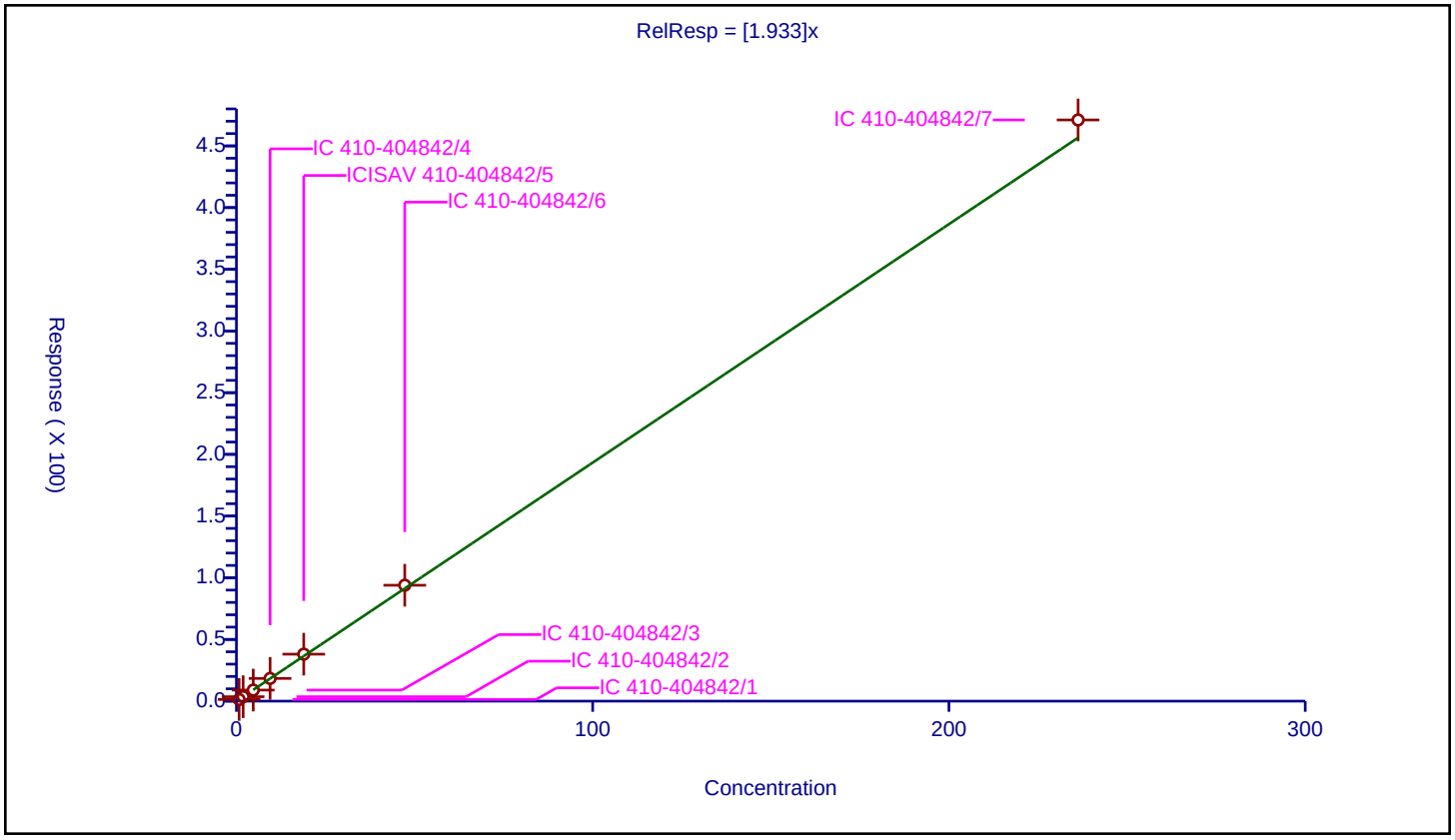
Curve Coefficients

Intercept:	0
Slope:	1.933

Error Coefficients

Standard Error:	18700000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	0.756	1.355417	10.0	1113222.0	1.79288	Y
2	IC 410-404842/2	1.89	3.585593	10.0	1058263.0	1.897139	Y
3	IC 410-404842/3	4.725	8.96947	10.0	1071866.0	1.898301	Y
4	IC 410-404842/4	9.45	18.397631	10.0	1098817.0	1.946839	Y
5	ICISAV 410-404842/5	18.9	38.063922	10.0	1000776.0	2.013964	Y
6	IC 410-404842/6	47.25	93.922036	10.0	1044812.0	1.987768	Y
7	IC 410-404842/7	236.25	471.031552	10.0	945827.0	1.993784	Y



Calibration / 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

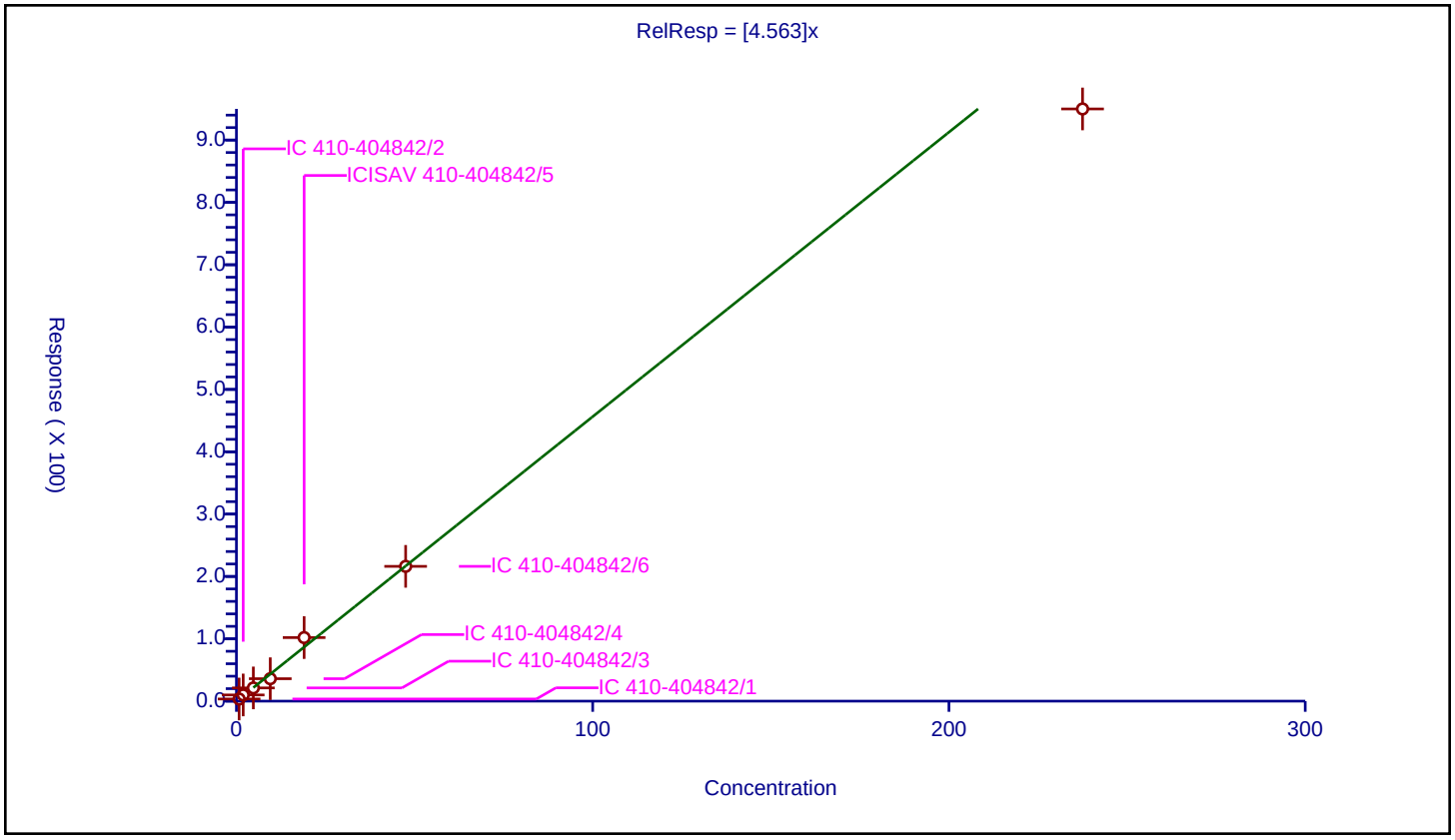
Curve Coefficients

Intercept:	0
Slope:	4.563

Error Coefficients

Standard Error:	2490000
Relative Standard Error:	12.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	0.76	3.446513	4.755	34748.0	4.534885	Y
2	IC 410-404842/2	1.9	9.938289	4.755	28755.0	5.230678	Y
3	IC 410-404842/3	4.75	21.229729	4.755	29405.0	4.469417	Y
4	IC 410-404842/4	9.5	36.005752	4.755	37264.0	3.790079	Y
5	ICISAV 410-404842/5	19.0	101.943041	4.755	24879.0	5.365423	Y
6	IC 410-404842/6	47.5	216.195216	4.755	30504.0	4.551478	Y
7	IC 410-404842/7	237.5	949.910882	4.755	29566.0	3.999625	Y



Calibration / Perfluoropentanesulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

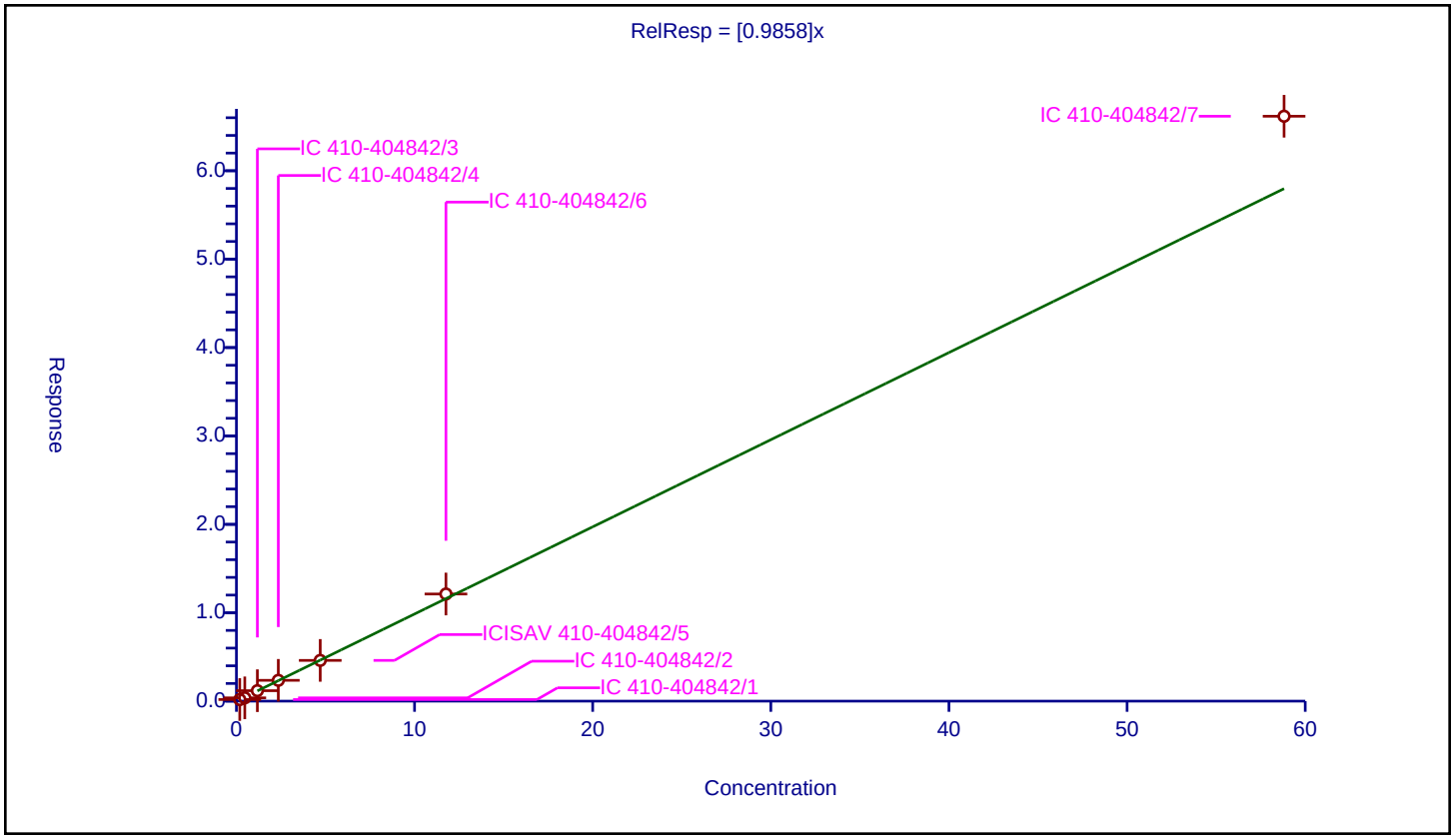
Curve Coefficients

Intercept:	0
Slope:	0.9858

Error Coefficients

Standard Error:	4830000
Relative Standard Error:	10.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	0.1882	0.182114	2.37	470163.0	0.967663	Y
2	IC 410-404842/2	0.4705	0.371877	2.37	478968.0	0.790388	Y
3	IC 410-404842/3	1.17625	1.183646	2.37	448244.0	1.006288	Y
4	IC 410-404842/4	2.3525	2.355168	2.37	458280.0	1.001134	Y
5	ICISAV 410-404842/5	4.705	4.607706	2.37	449910.0	0.979321	Y
6	IC 410-404842/6	11.7625	12.12121	2.37	462133.0	1.030496	Y
7	IC 410-404842/7	58.8125	66.167401	2.37	413436.0	1.125057	Y



Calibration / Perfluorooctanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

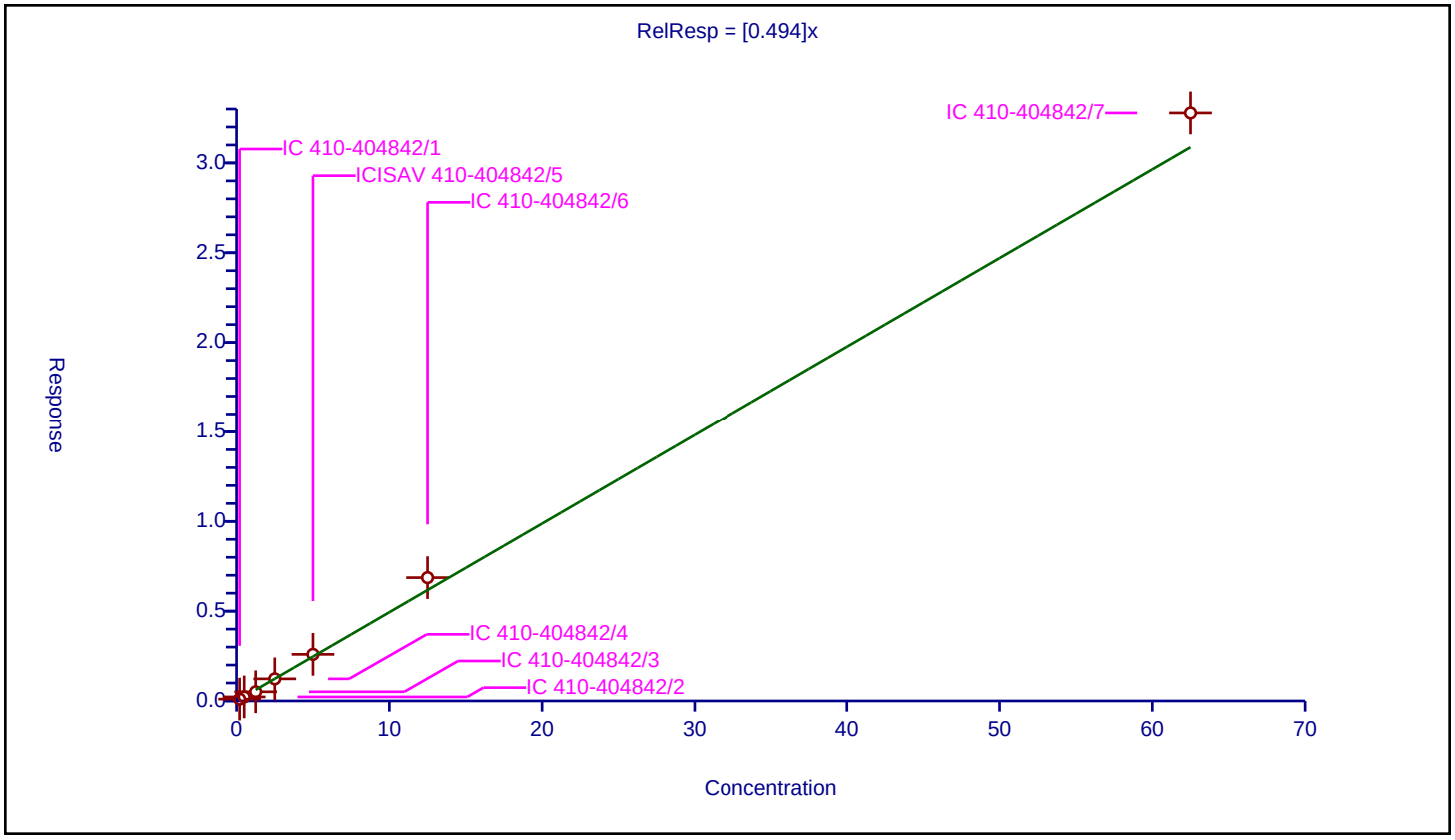
Curve Coefficients

Intercept:	0
Slope:	0.494

Error Coefficients

Standard Error:	2990000
Relative Standard Error:	9.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	0.2	0.102961	2.5	565625.0	0.514807	Y
2	IC 410-404842/2	0.5	0.224383	2.5	542108.0	0.448767	Y
3	IC 410-404842/3	1.25	0.511729	2.5	532953.0	0.409383	Y
4	IC 410-404842/4	2.5	1.230496	2.5	569949.0	0.492198	Y
5	ICISAV 410-404842/5	5.0	2.595328	2.5	512391.0	0.519066	Y
6	IC 410-404842/6	12.5	6.867179	2.5	534673.0	0.549374	Y
7	IC 410-404842/7	62.5	32.782286	2.5	544235.0	0.524517	Y



Calibration / Perfluorohexanesulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

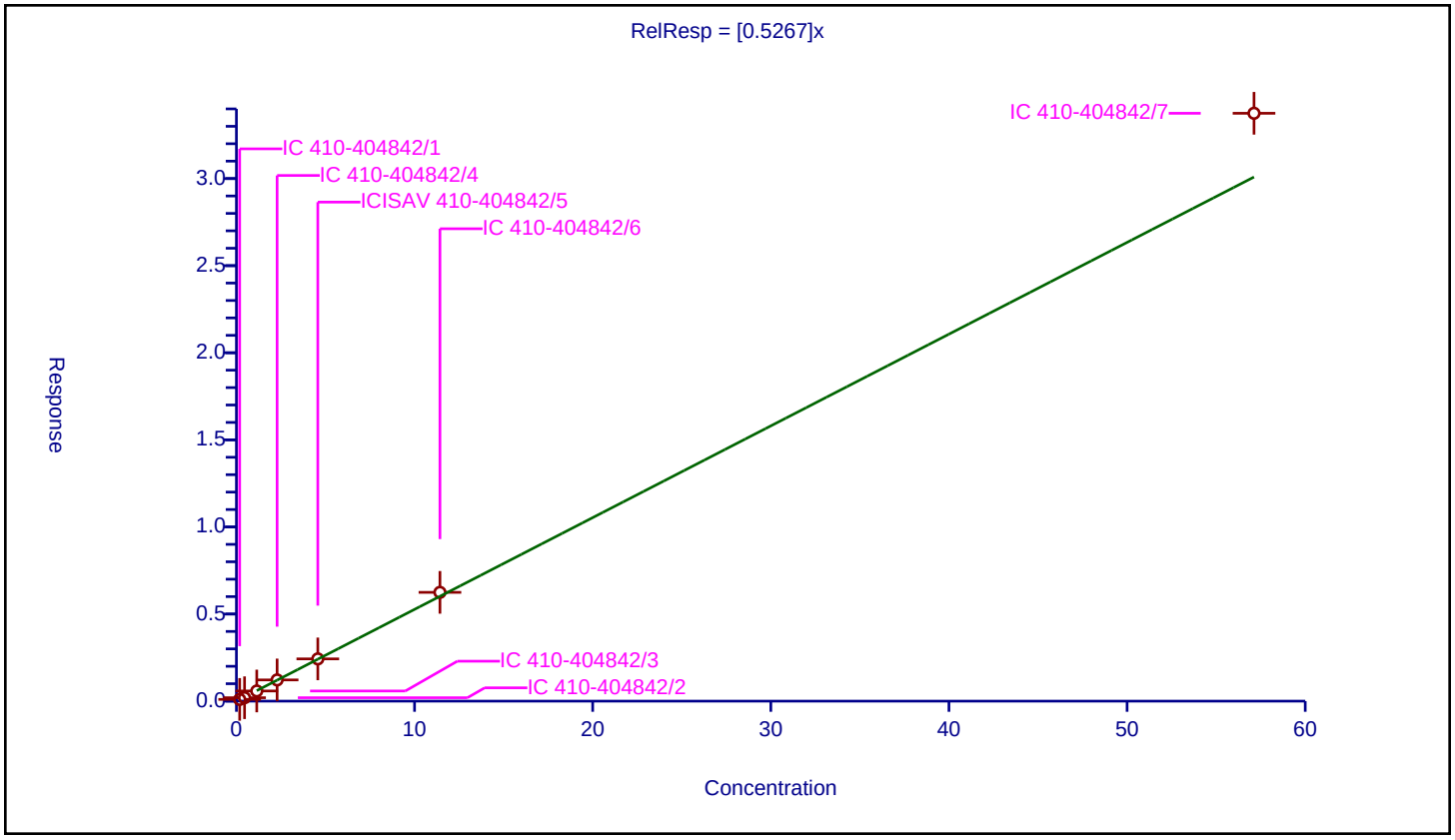
Curve Coefficients

Intercept:	0
Slope:	0.5267

Error Coefficients

Standard Error:	2460000
Relative Standard Error:	9.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	0.1828	0.099722	2.37	470163.0	0.545527	Y
2	IC 410-404842/2	0.457	0.196703	2.37	478968.0	0.430423	Y
3	IC 410-404842/3	1.1425	0.582724	2.37	448244.0	0.510043	Y
4	IC 410-404842/4	2.285	1.217244	2.37	458280.0	0.532711	Y
5	ICISAV 410-404842/5	4.57	2.42608	2.37	449910.0	0.530871	Y
6	IC 410-404842/6	11.425	6.244973	2.37	462133.0	0.546606	Y
7	IC 410-404842/7	57.125	33.747558	2.37	413436.0	0.590767	Y



Calibration / 7:3 FTCA

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

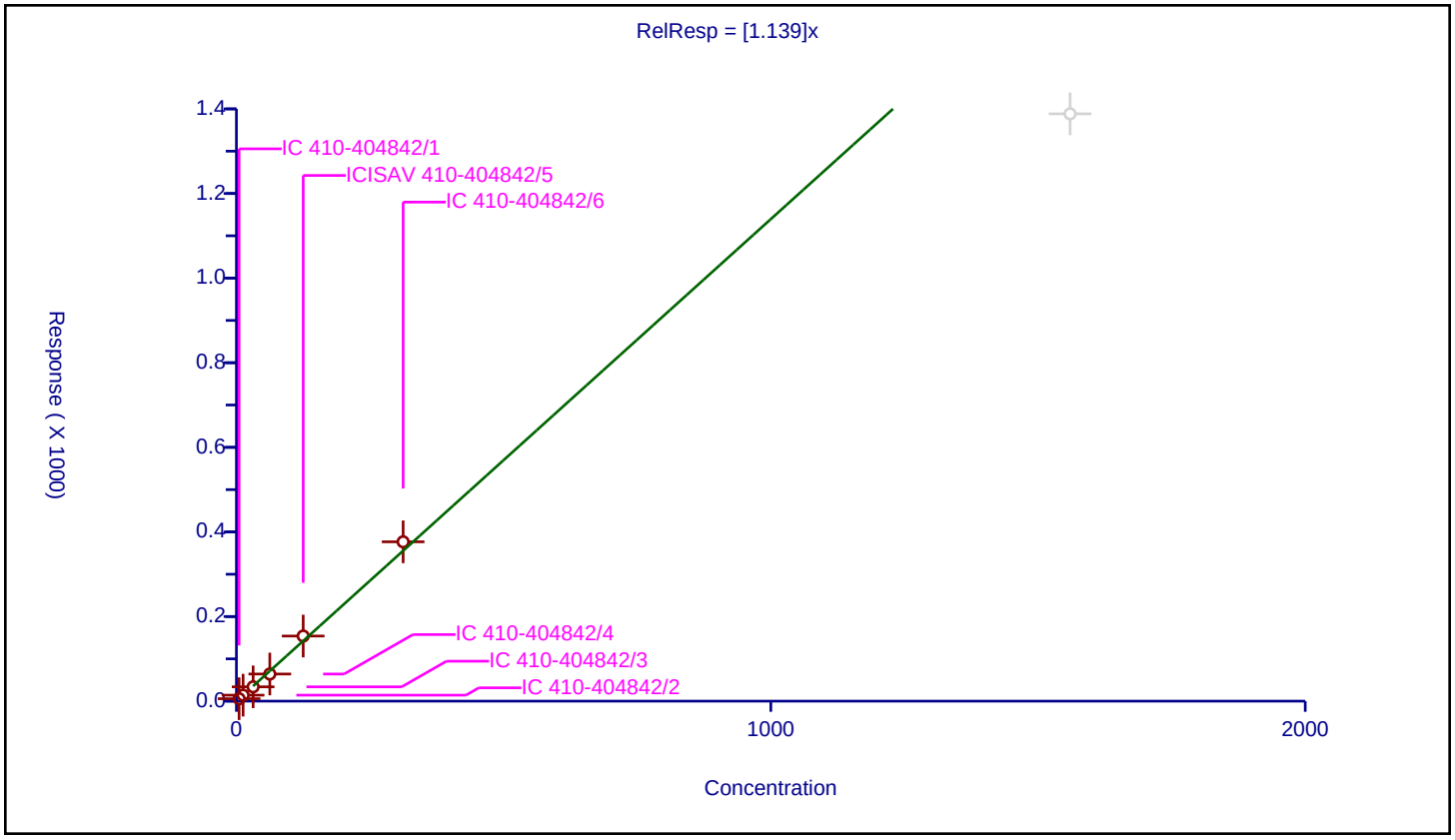
Curve Coefficients

Intercept:	0
Slope:	1.139

Error Coefficients

Standard Error:	2910000
Relative Standard Error:	6.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	5.0	5.79178	2.5	40971.0	1.158356	Y
2	IC 410-404842/2	12.5	14.157028	2.5	42018.0	1.132562	Y
3	IC 410-404842/3	31.3	33.840797	2.5	40709.0	1.081176	Y
4	IC 410-404842/4	62.5	64.149133	2.5	43250.0	1.026386	Y
5	ICISAV 410-404842/5	125.0	153.874454	2.5	38699.0	1.230996	Y
6	IC 410-404842/6	312.0	376.628519	2.5	39321.0	1.207143	Y
7	IC 410-404842/7	1560.0	1388.284138	2.5	45448.0	0.889926	N



Calibration / Perfluorononanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

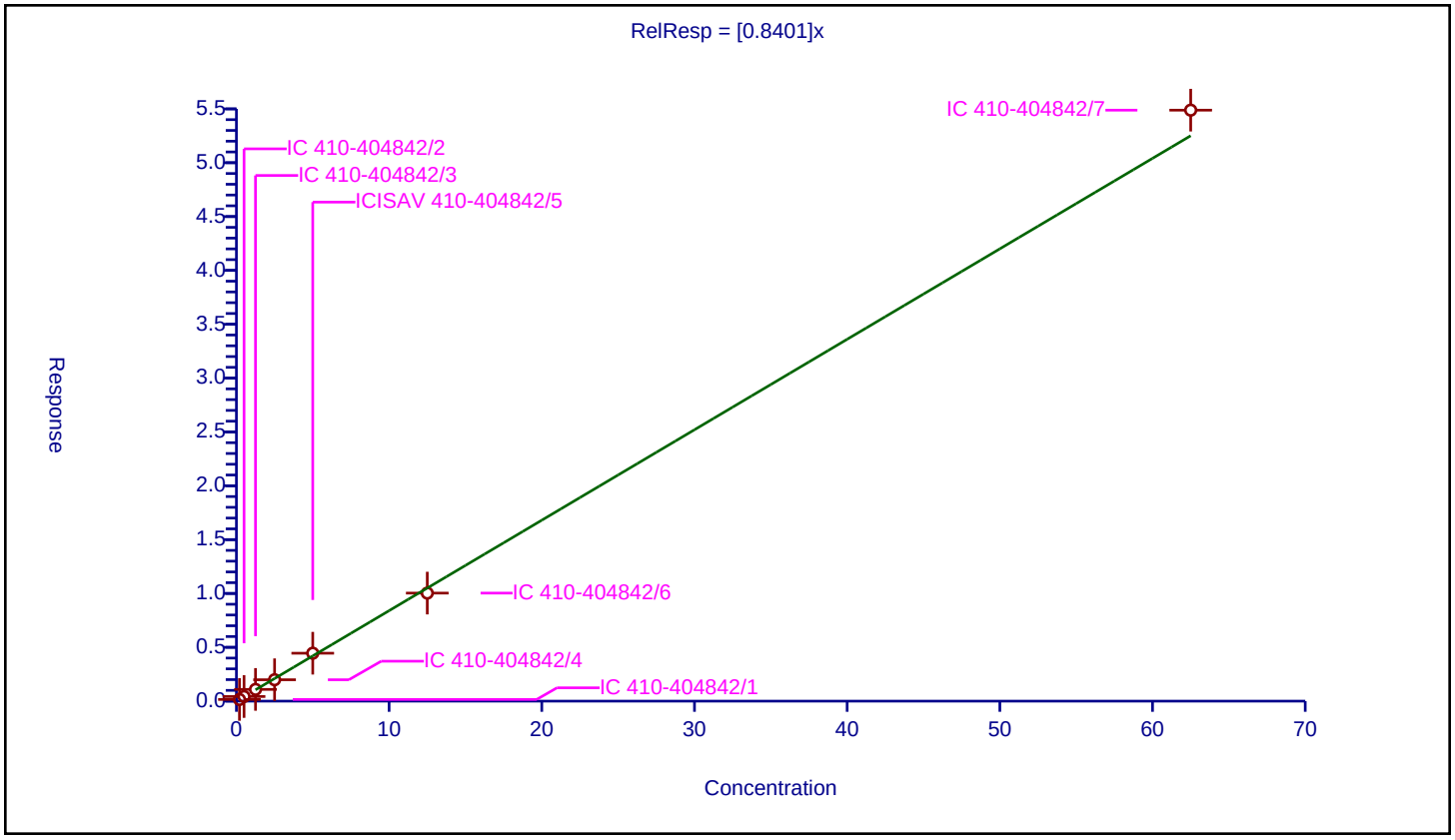
Curve Coefficients

Intercept:	0
Slope:	0.8401

Error Coefficients

Standard Error:	2660000
Relative Standard Error:	5.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	0.2	0.156512	1.25	135245.0	0.782561	Y
2	IC 410-404842/2	0.5	0.429931	1.25	133501.0	0.859862	Y
3	IC 410-404842/3	1.25	1.08994	1.25	137831.0	0.871952	Y
4	IC 410-404842/4	2.5	1.98795	1.25	143775.0	0.79518	Y
5	ICISAV 410-404842/5	5.0	4.451305	1.25	134993.0	0.890261	Y
6	IC 410-404842/6	12.5	10.034289	1.25	140240.0	0.802743	Y
7	IC 410-404842/7	62.5	54.882179	1.25	145485.0	0.878115	Y



Calibration / 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

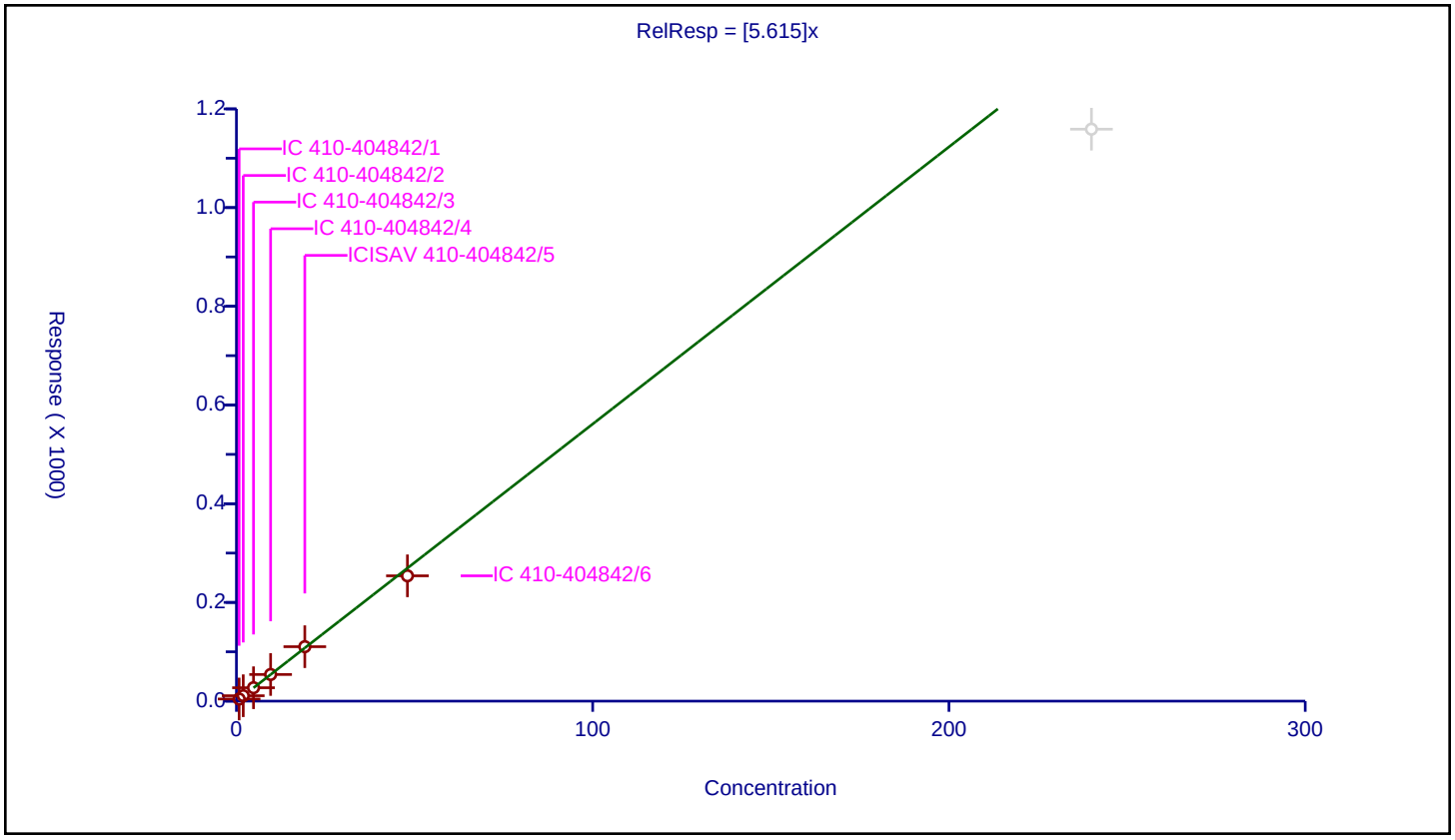
Curve Coefficients

Intercept:	0
Slope:	5.615

Error Coefficients

Standard Error:	431000
Relative Standard Error:	2.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	0.768	4.34478	4.8	17356.0	5.657265	Y
2	IC 410-404842/2	1.92	10.969083	4.8	16082.0	5.713064	Y
3	IC 410-404842/3	4.8	27.16311	4.8	15744.0	5.658981	Y
4	IC 410-404842/4	9.6	53.973162	4.8	17438.0	5.622204	Y
5	ICISAV 410-404842/5	19.2	110.333916	4.8	16706.0	5.746558	Y
6	IC 410-404842/6	48.0	253.943676	4.8	16199.0	5.290493	Y
7	IC 410-404842/7	240.0	1158.89427	4.8	20630.0	4.828726	N



Calibration / Perfluoroheptanesulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

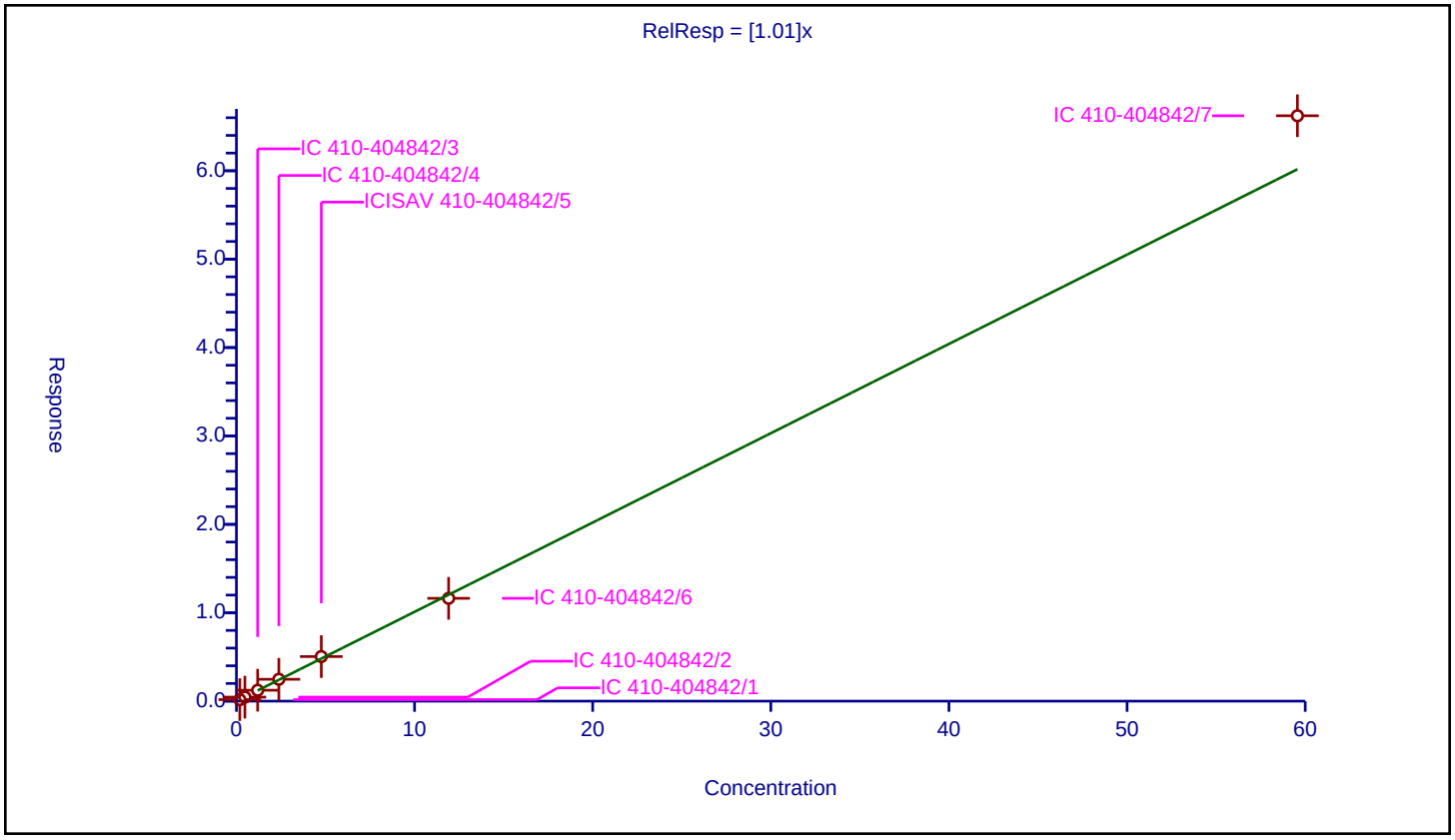
Curve Coefficients

Intercept:	0
Slope:	1.01

Error Coefficients

Standard Error:	4160000
Relative Standard Error:	7.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	0.1906	0.171297	2.395	381500.0	0.898727	Y
2	IC 410-404842/2	0.4765	0.454551	2.395	385075.0	0.953937	Y
3	IC 410-404842/3	1.19125	1.232612	2.395	348150.0	1.034721	Y
4	IC 410-404842/4	2.3825	2.47288	2.395	358602.0	1.037935	Y
5	ICISAV 410-404842/5	4.765	5.042013	2.395	365200.0	1.058135	Y
6	IC 410-404842/6	11.9125	11.631543	2.395	397697.0	0.976415	Y
7	IC 410-404842/7	59.5625	66.221999	2.395	360047.0	1.111807	Y



Calibration / N-methylperfluorooctanesulfonamidoacetic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

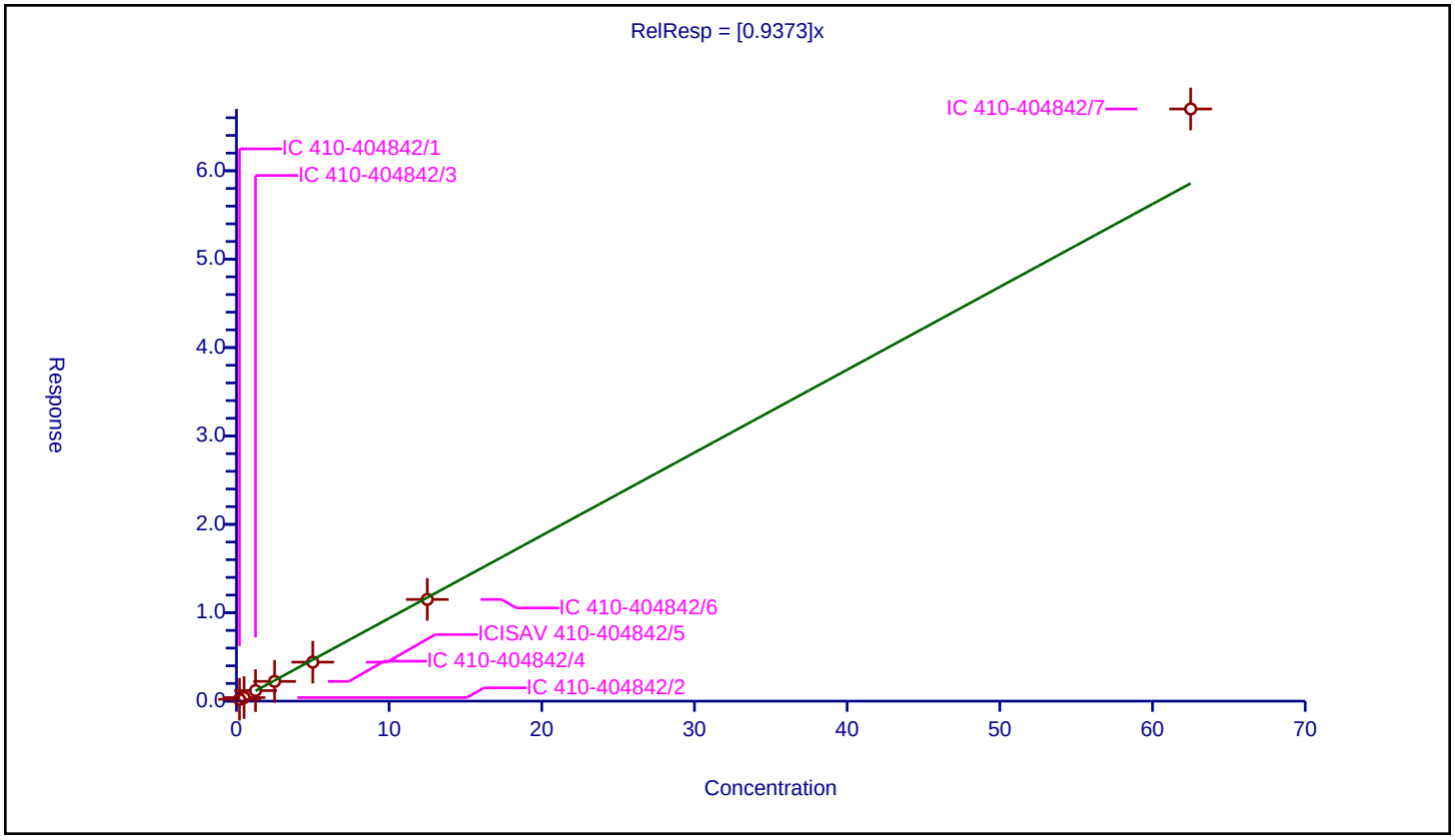
Curve Coefficients

Intercept:	0
Slope:	0.9373

Error Coefficients

Standard Error:	1450000
Relative Standard Error:	9.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	0.2	0.206468	5.0	279777.0	1.03234	Y
2	IC 410-404842/2	0.5	0.403483	5.0	251448.0	0.806966	Y
3	IC 410-404842/3	1.25	1.190953	5.0	262546.0	0.952763	Y
4	IC 410-404842/4	2.5	2.234749	5.0	282025.0	0.893899	Y
5	ICISAV 410-404842/5	5.0	4.41236	5.0	275611.0	0.882472	Y
6	IC 410-404842/6	12.5	11.506651	5.0	280400.0	0.920532	Y
7	IC 410-404842/7	62.5	66.991911	5.0	260122.0	1.071871	Y



Calibration / Perfluorodecanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

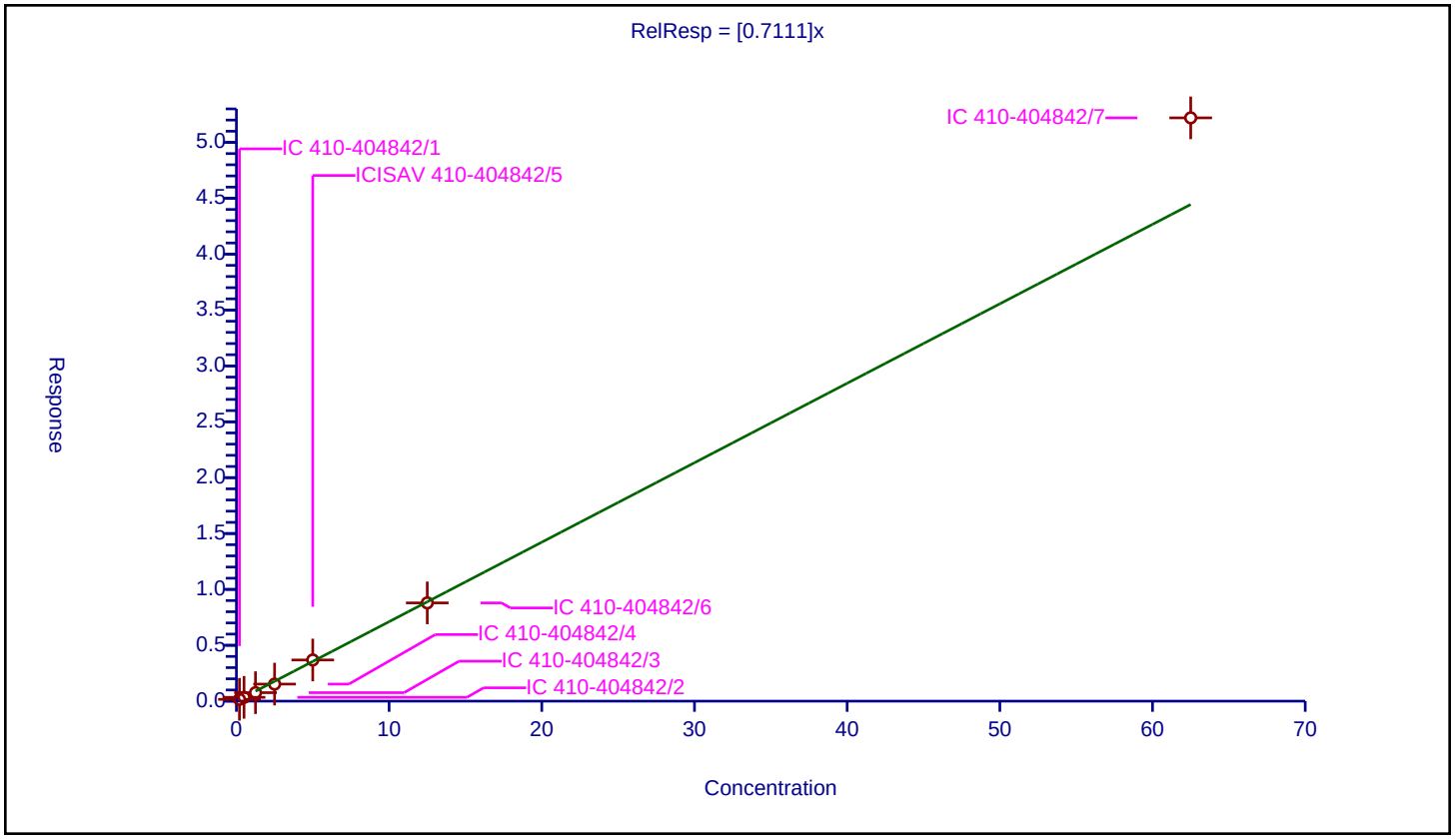
Curve Coefficients

Intercept:	0
Slope:	0.7111

Error Coefficients

Standard Error:	3000000
Relative Standard Error:	12.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	0.2	0.161023	1.25	173508.0	0.805114	Y
2	IC 410-404842/2	0.5	0.340112	1.25	181036.0	0.680224	Y
3	IC 410-404842/3	1.25	0.758948	1.25	185716.0	0.607158	Y
4	IC 410-404842/4	2.5	1.525585	1.25	202324.0	0.610234	Y
5	ICISAV 410-404842/5	5.0	3.683547	1.25	170102.0	0.736709	Y
6	IC 410-404842/6	12.5	8.791422	1.25	185348.0	0.703314	Y
7	IC 410-404842/7	62.5	52.196886	1.25	172522.0	0.83515	Y



Calibration / N-ethylperfluorooctanesulfonamidoacetic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

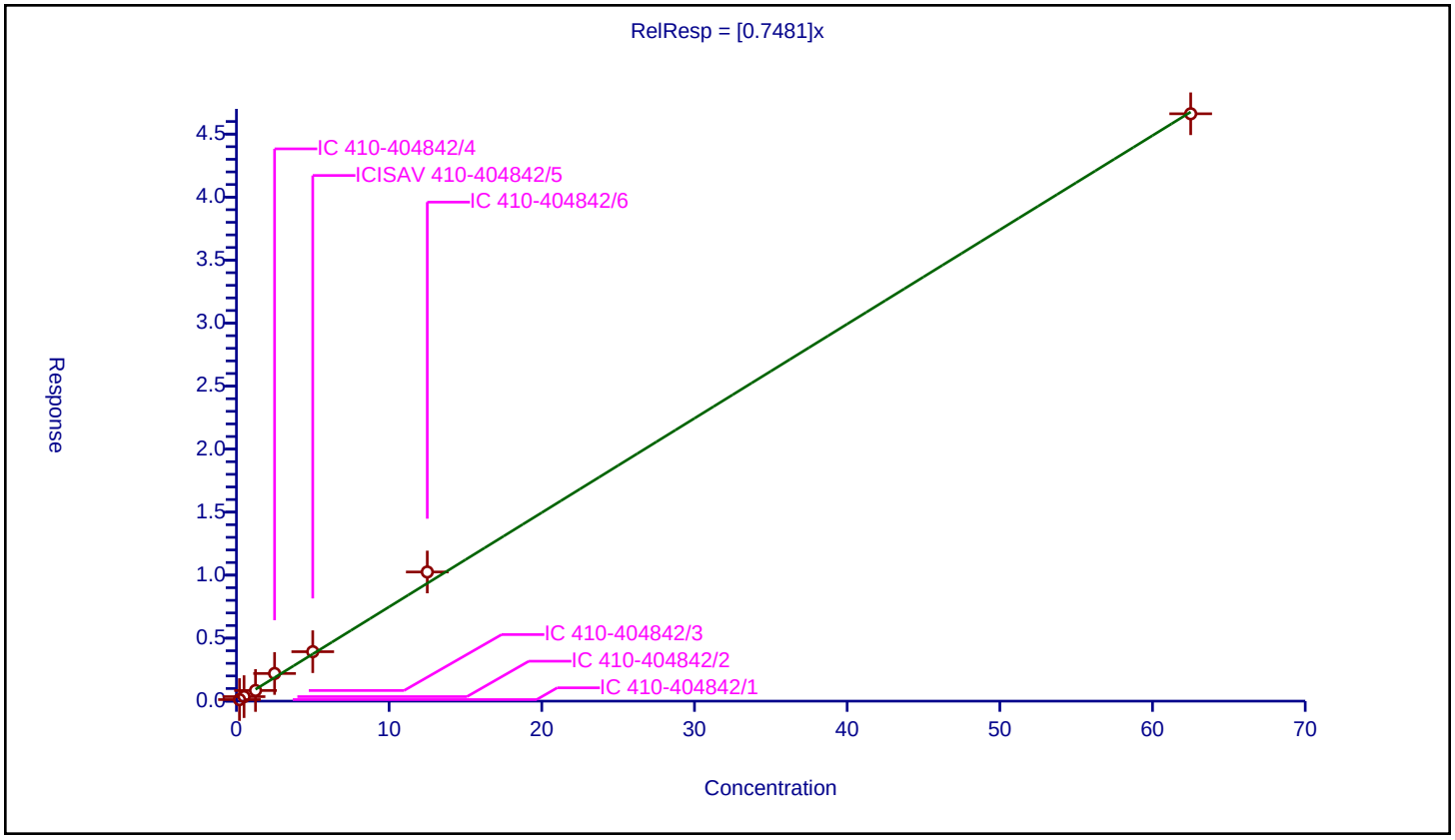
Curve Coefficients

Intercept:	0
Slope:	0.7481

Error Coefficients

Standard Error:	1010000
Relative Standard Error:	11.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	0.2	0.122903	5.0	272979.0	0.614516	Y
2	IC 410-404842/2	0.5	0.358966	5.0	257852.0	0.717931	Y
3	IC 410-404842/3	1.25	0.844994	5.0	240191.0	0.675995	Y
4	IC 410-404842/4	2.5	2.19432	5.0	263715.0	0.877728	Y
5	ICISAV 410-404842/5	5.0	3.923363	5.0	229785.0	0.784673	Y
6	IC 410-404842/6	12.5	10.249752	5.0	237335.0	0.81998	Y
7	IC 410-404842/7	62.5	46.612698	5.0	260399.0	0.745803	Y



Calibration / Perfluorooctanesulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

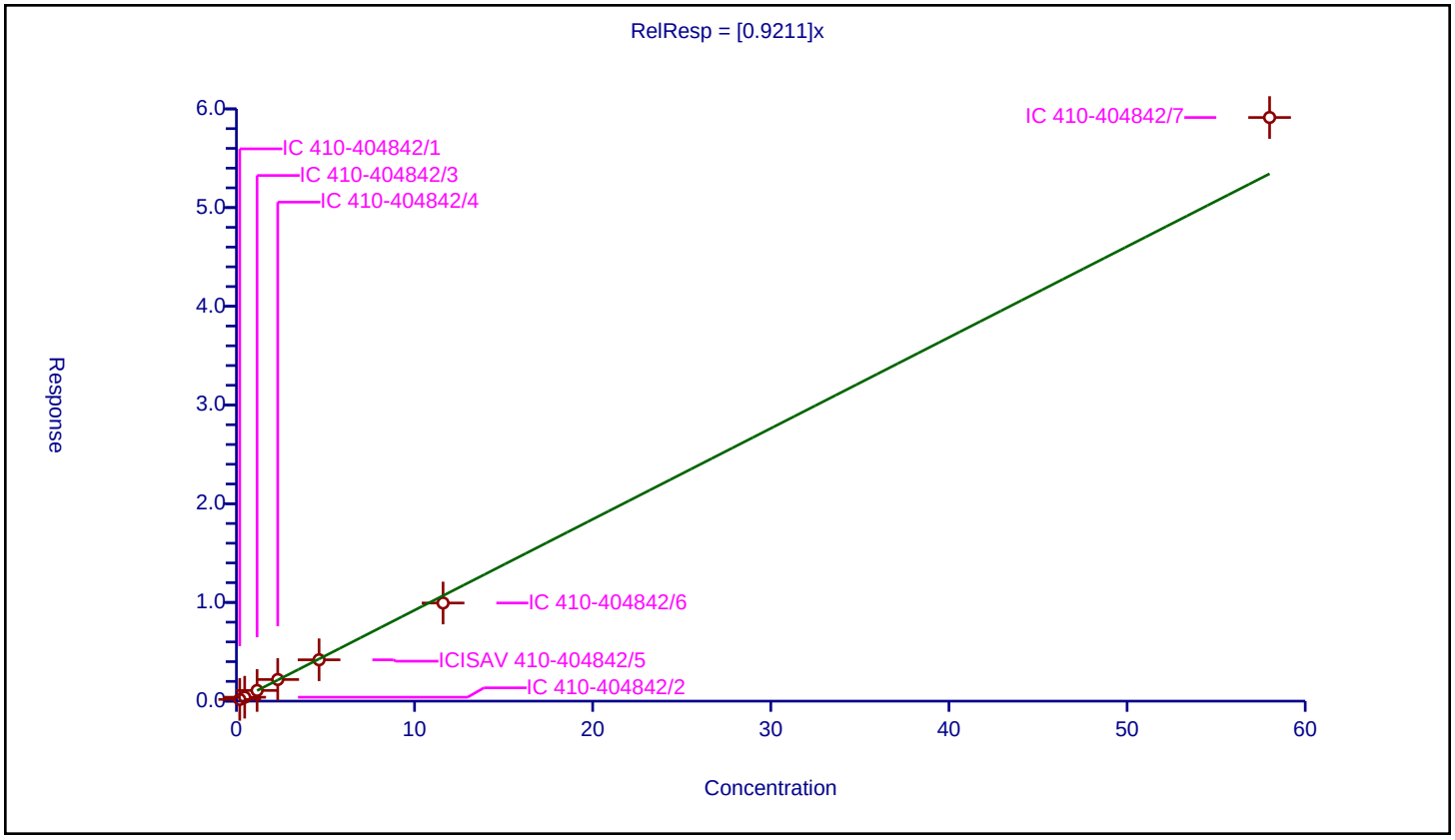
Curve Coefficients

Intercept:	0
Slope:	0.9211

Error Coefficients

Standard Error:	3700000
Relative Standard Error:	6.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	0.1856	0.173363	2.395	381500.0	0.934067	Y
2	IC 410-404842/2	0.464	0.396902	2.395	385075.0	0.855392	Y
3	IC 410-404842/3	1.16	1.084667	2.395	348150.0	0.935058	Y
4	IC 410-404842/4	2.32	2.190284	2.395	358602.0	0.944088	Y
5	ICISAV 410-404842/5	4.64	4.189597	2.395	365200.0	0.90293	Y
6	IC 410-404842/6	11.6	9.940921	2.395	397697.0	0.856976	Y
7	IC 410-404842/7	58.0	59.128297	2.395	360047.0	1.019453	Y



Calibration / Perfluoroundecanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

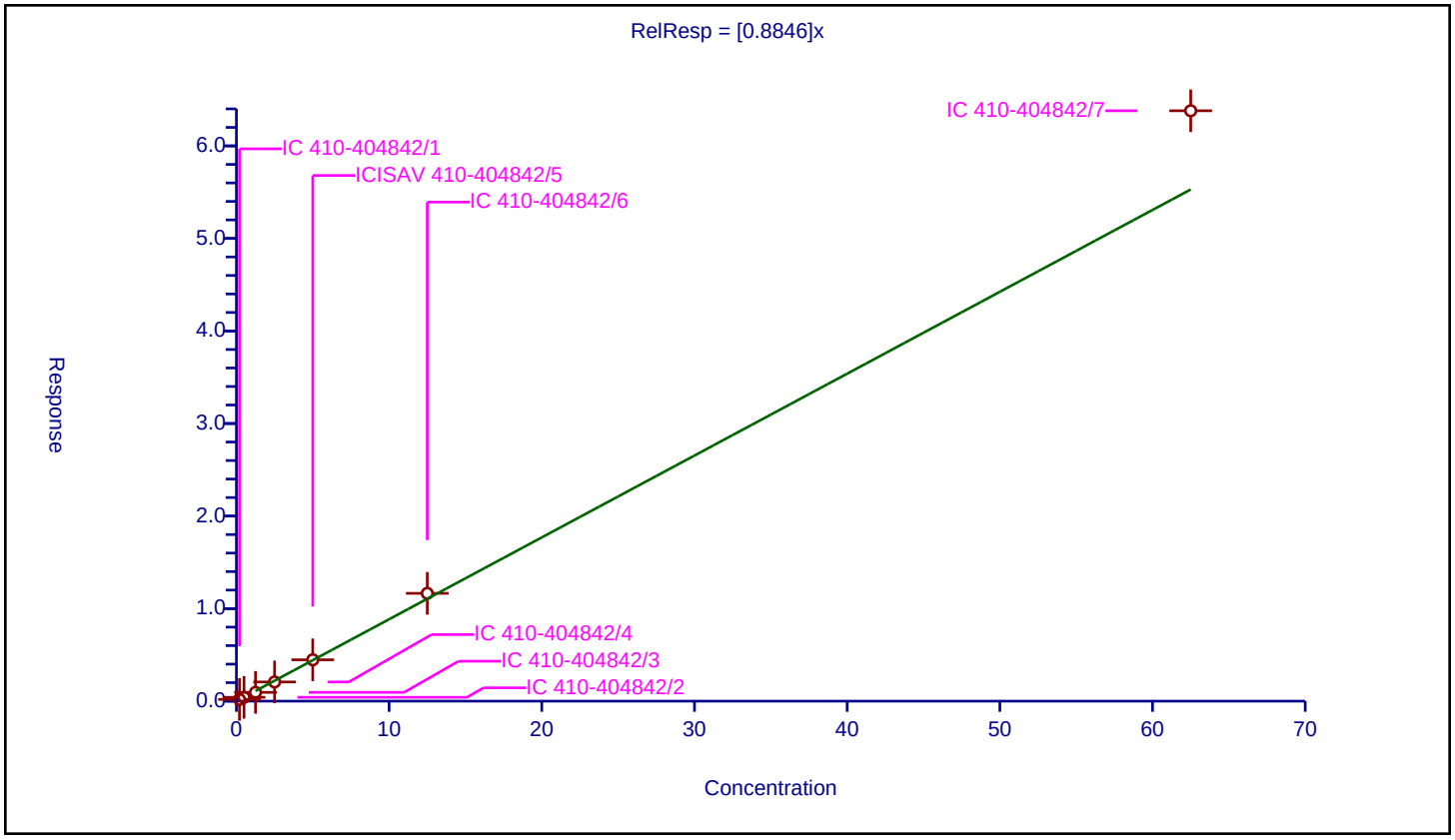
Curve Coefficients

Intercept:	0
Slope:	0.8846

Error Coefficients

Standard Error:	3370000
Relative Standard Error:	9.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	0.2	0.186373	1.25	165307.0	0.931865	Y
2	IC 410-404842/2	0.5	0.413667	1.25	171938.0	0.827333	Y
3	IC 410-404842/3	1.25	0.947466	1.25	167233.0	0.757972	Y
4	IC 410-404842/4	2.5	2.072276	1.25	174552.0	0.828911	Y
5	ICISAV 410-404842/5	5.0	4.468015	1.25	159565.0	0.893603	Y
6	IC 410-404842/6	12.5	11.650305	1.25	170392.0	0.932024	Y
7	IC 410-404842/7	62.5	63.795286	1.25	158218.0	1.020725	Y



Calibration / 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

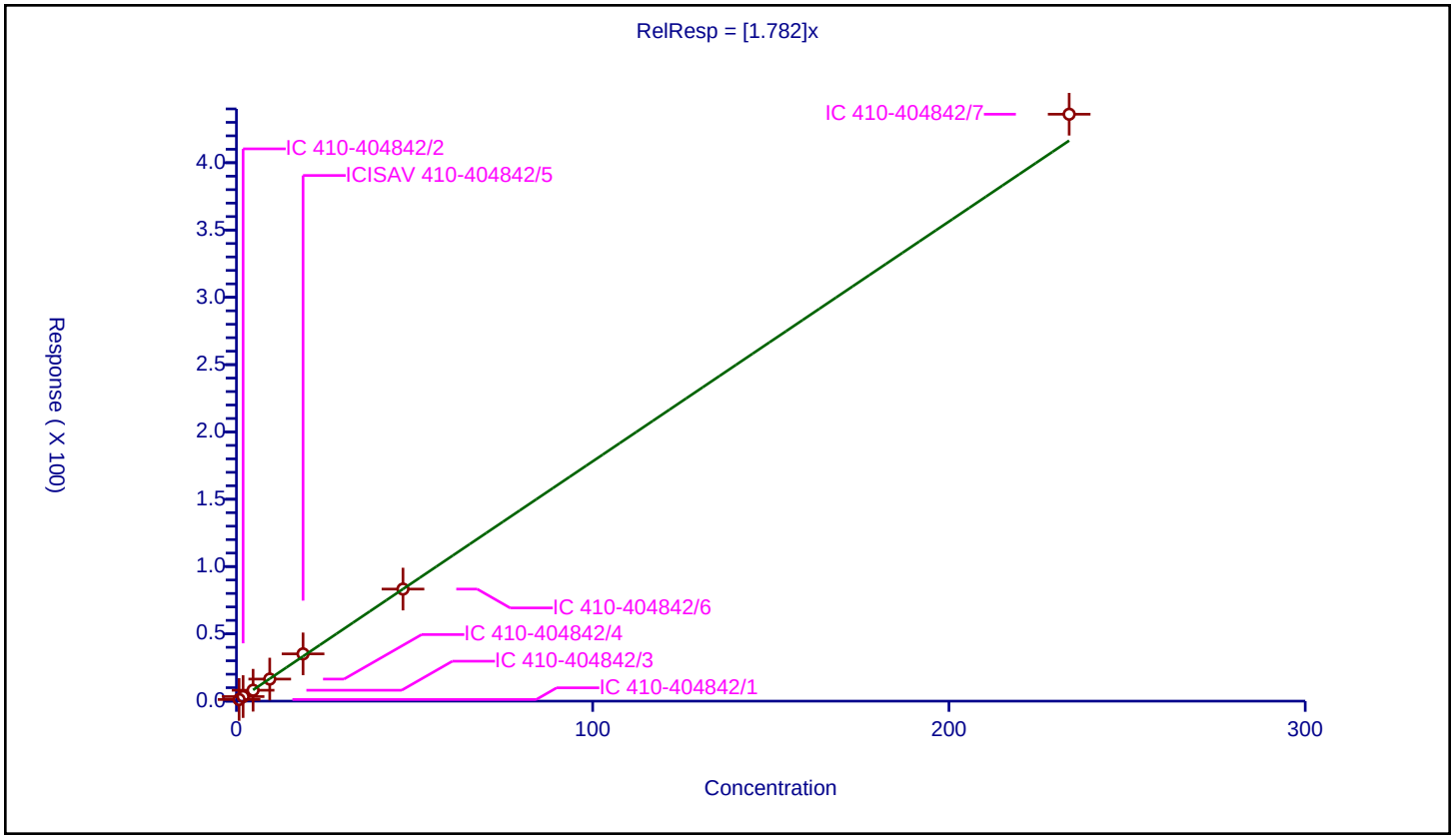
Curve Coefficients

Intercept:	0
Slope:	1.782

Error Coefficients

Standard Error:	17300000
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	0.748	1.226512	10.0	1113222.0	1.639722	Y
2	IC 410-404842/2	1.87	3.399127	10.0	1058263.0	1.817715	Y
3	IC 410-404842/3	4.675	8.111219	10.0	1071866.0	1.73502	Y
4	IC 410-404842/4	9.35	16.402203	10.0	1098817.0	1.754246	Y
5	ICISAV 410-404842/5	18.7	35.108975	10.0	1000776.0	1.877485	Y
6	IC 410-404842/6	46.75	83.261678	10.0	1044812.0	1.780998	Y
7	IC 410-404842/7	233.75	436.048093	10.0	945827.0	1.865446	Y



Calibration / Perfluorononanesulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

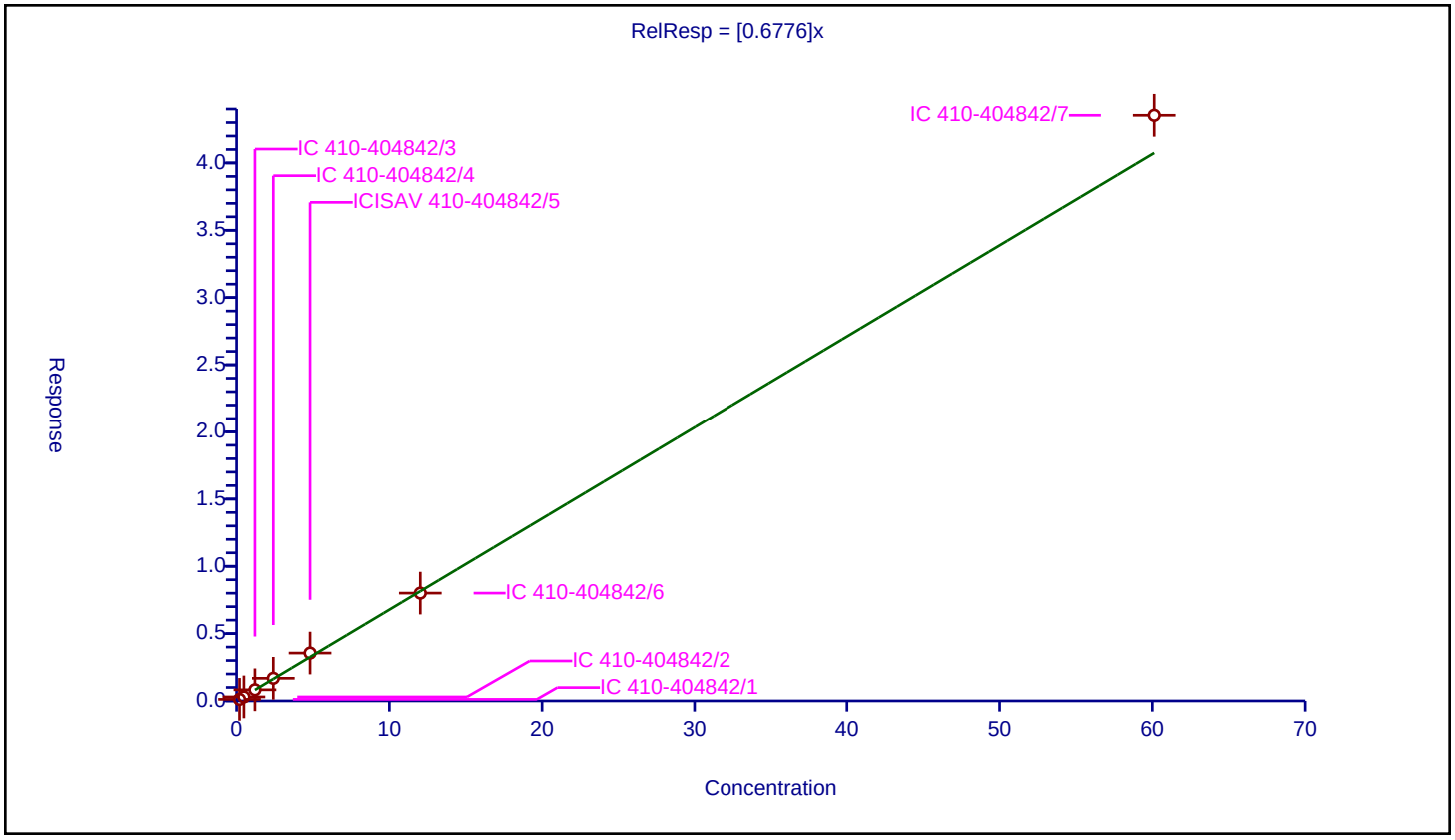
Curve Coefficients

Intercept:	0
Slope:	0.6776

Error Coefficients

Standard Error:	2740000
Relative Standard Error:	7.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	0.1924	0.117025	2.395	381500.0	0.60824	Y
2	IC 410-404842/2	0.481	0.298104	2.395	385075.0	0.619759	Y
3	IC 410-404842/3	1.2025	0.82638	2.395	348150.0	0.687218	Y
4	IC 410-404842/4	2.405	1.68184	2.395	358602.0	0.69931	Y
5	ICISAV 410-404842/5	4.81	3.554221	2.395	365200.0	0.738923	Y
6	IC 410-404842/6	12.025	8.006882	2.395	397697.0	0.665853	Y
7	IC 410-404842/7	60.125	43.534538	2.395	360047.0	0.724067	Y



Calibration / Perfluorododecanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

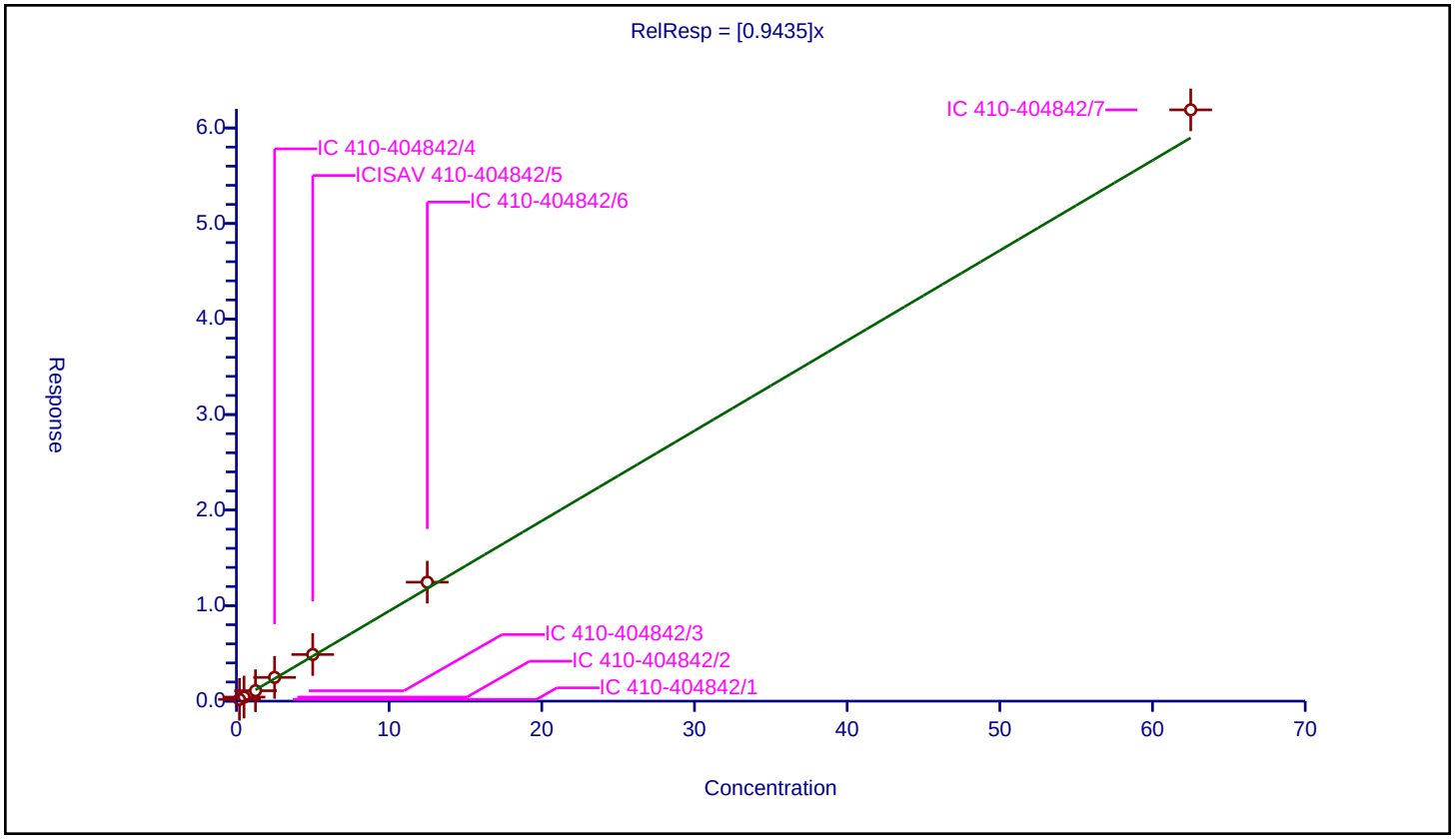
Curve Coefficients

Intercept:	0
Slope:	0.9435

Error Coefficients

Standard Error:	3170000
Relative Standard Error:	6.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	0.2	0.184763	1.25	141952.0	0.923816	Y
2	IC 410-404842/2	0.5	0.424816	1.25	149391.0	0.849633	Y
3	IC 410-404842/3	1.25	1.091853	1.25	152303.0	0.873482	Y
4	IC 410-404842/4	2.5	2.485879	1.25	147913.0	0.994351	Y
5	ICISAV 410-404842/5	5.0	4.883545	1.25	143392.0	0.976709	Y
6	IC 410-404842/6	12.5	12.453294	1.25	148268.0	0.996264	Y
7	IC 410-404842/7	62.5	61.89632	1.25	153643.0	0.990341	Y



Calibration / Perfluorooctanesulfonamide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

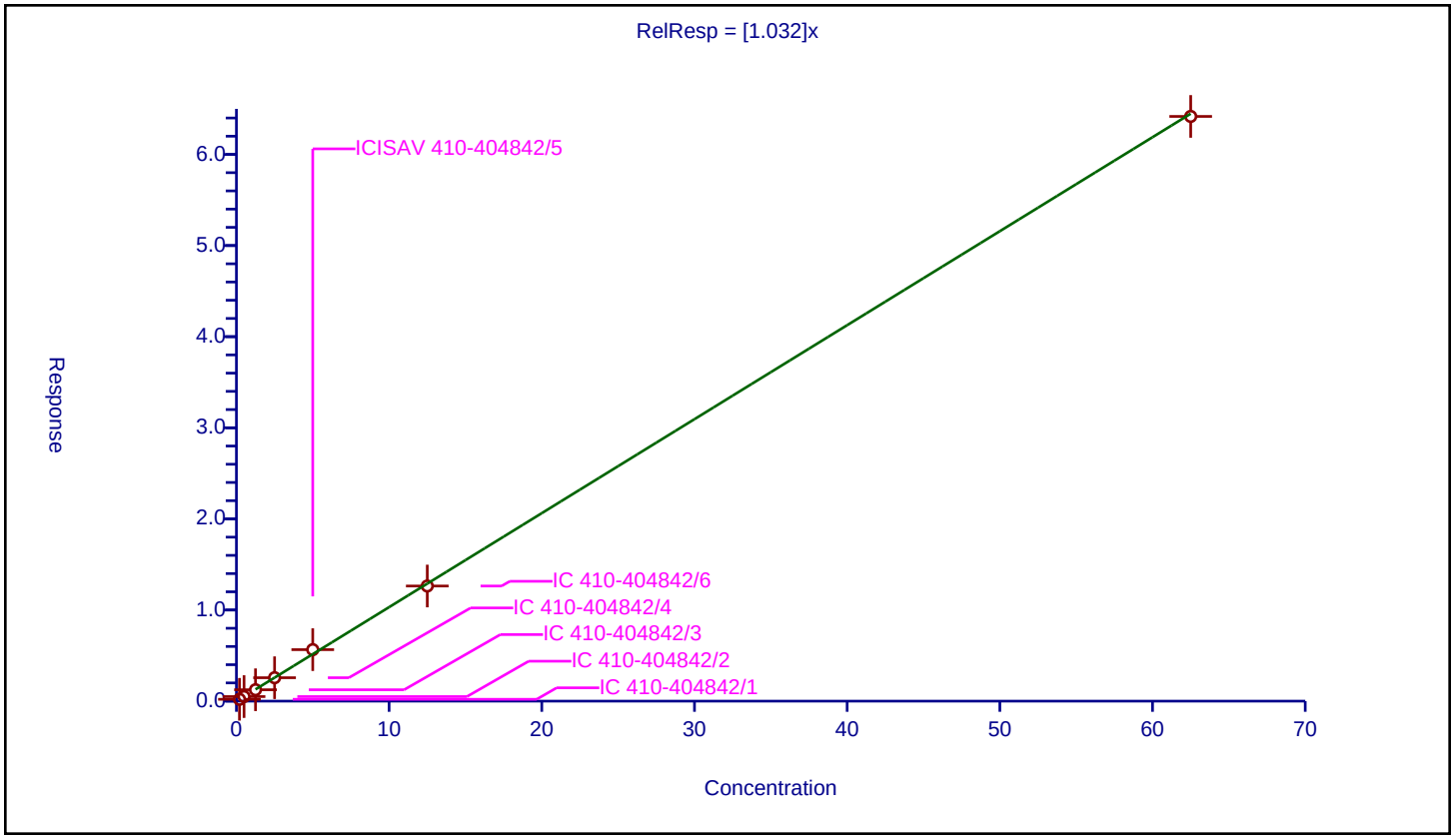
Curve Coefficients

Intercept:	0
Slope:	1.032

Error Coefficients

Standard Error:	5820000
Relative Standard Error:	4.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	0.2	0.204361	2.5	573029.0	1.021807	Y
2	IC 410-404842/2	0.5	0.501259	2.5	588503.0	1.002518	Y
3	IC 410-404842/3	1.25	1.250341	2.5	579394.0	1.000273	Y
4	IC 410-404842/4	2.5	2.571068	2.5	591898.0	1.028427	Y
5	ICISAV 410-404842/5	5.0	5.651248	2.5	523526.0	1.13025	Y
6	IC 410-404842/6	12.5	12.63566	2.5	572461.0	1.010853	Y
7	IC 410-404842/7	62.5	64.172063	2.5	540838.0	1.026753	Y



Calibration / Perfluorodecanesulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

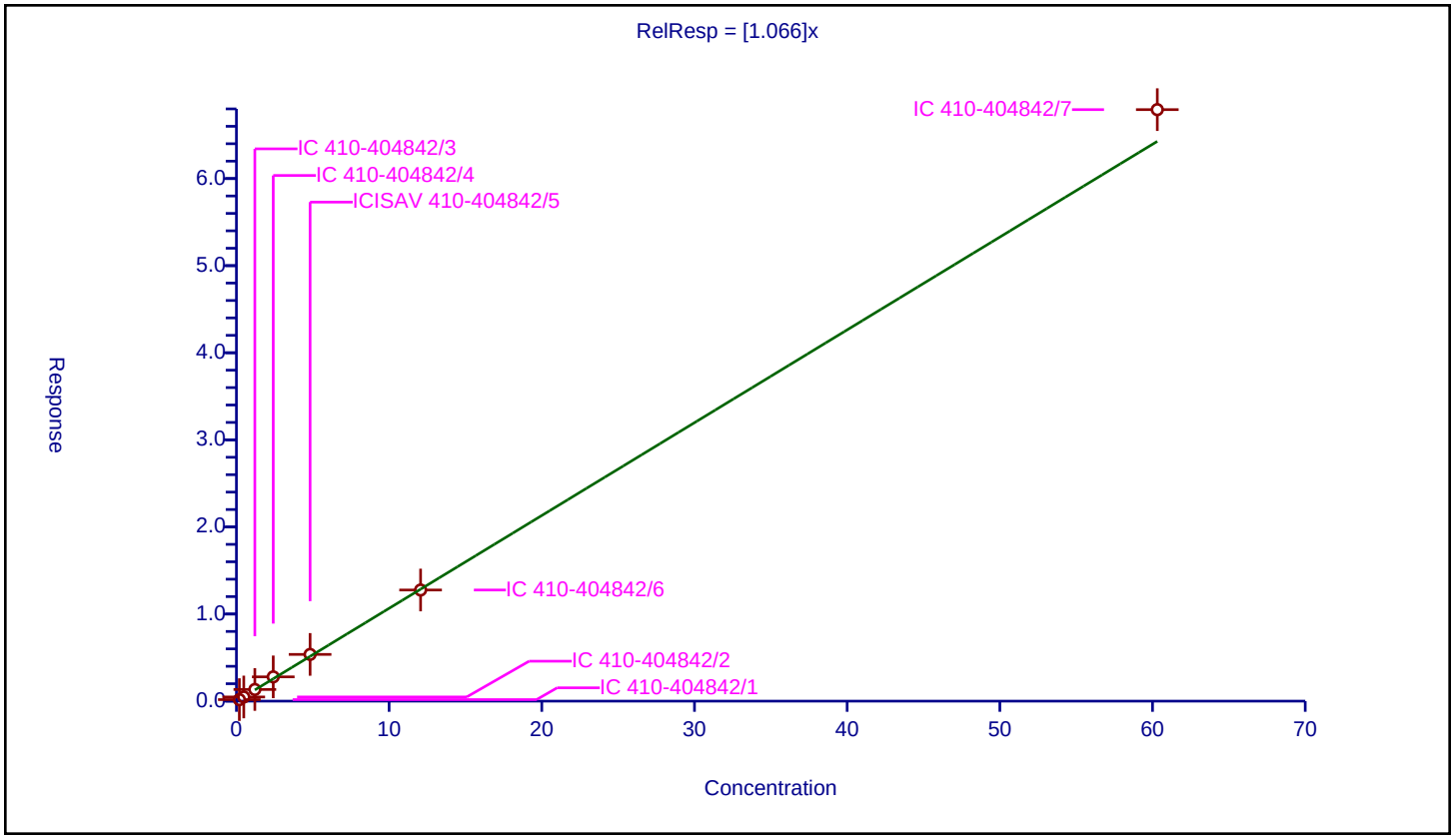
Curve Coefficients

Intercept:	0
Slope:	1.066

Error Coefficients

Standard Error:	4270000
Relative Standard Error:	8.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	0.193	0.175598	2.395	381500.0	0.909833	Y
2	IC 410-404842/2	0.4825	0.47747	2.395	385075.0	0.989575	Y
3	IC 410-404842/3	1.20625	1.338125	2.395	348150.0	1.109326	Y
4	IC 410-404842/4	2.4125	2.788056	2.395	358602.0	1.155671	Y
5	ICISAV 410-404842/5	4.825	5.365049	2.395	365200.0	1.111927	Y
6	IC 410-404842/6	12.0625	12.75872	2.395	397697.0	1.057718	Y
7	IC 410-404842/7	60.3125	67.913806	2.395	360047.0	1.126032	Y



Calibration / Perfluorotridecanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

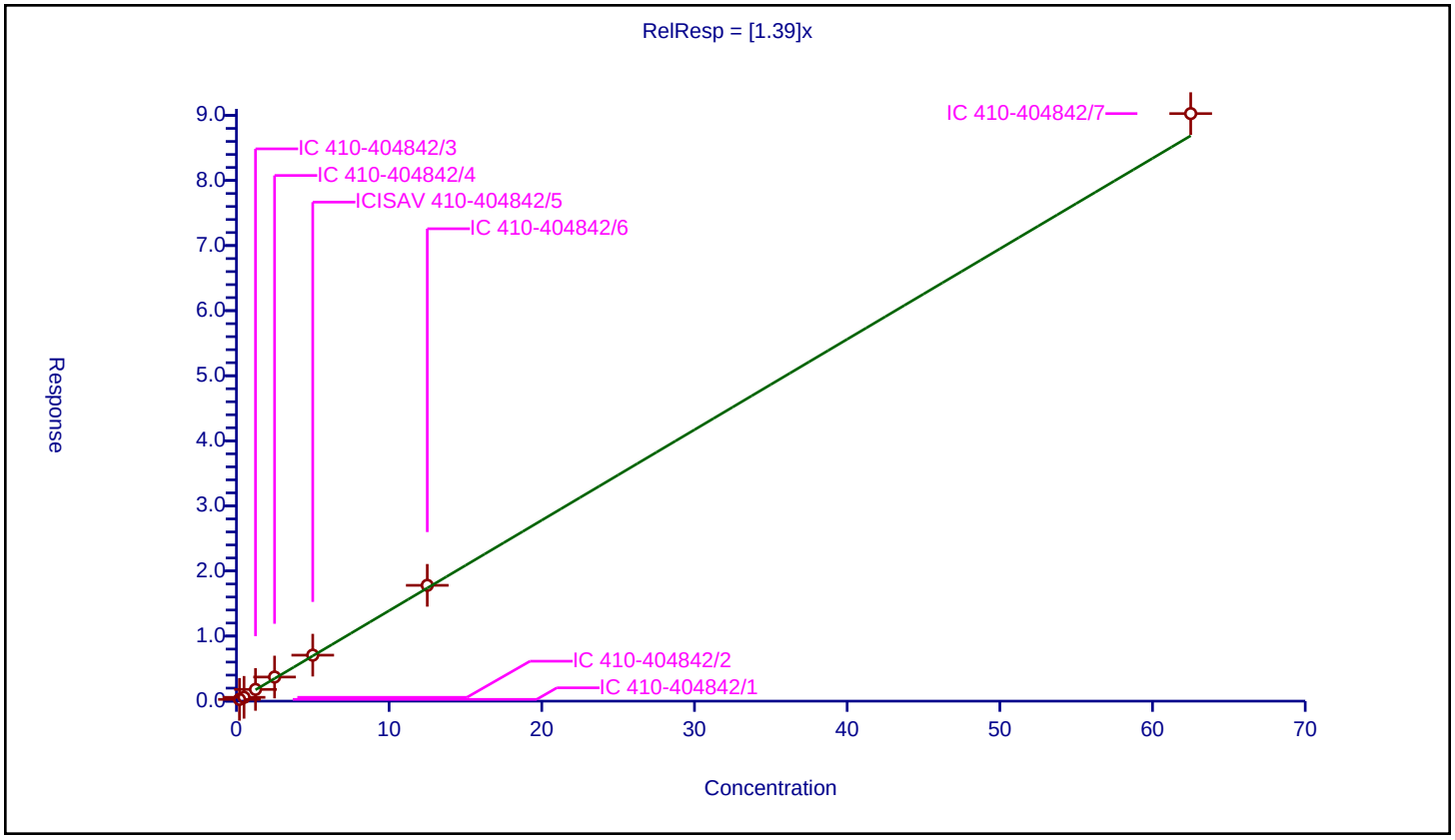
Curve Coefficients

Intercept:	0
Slope:	1.39

Error Coefficients

Standard Error:	2620000
Relative Standard Error:	7.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	0.2	0.270262	1.25	82790.0	1.351311	Y
2	IC 410-404842/2	0.5	0.586461	1.25	87542.0	1.172923	Y
3	IC 410-404842/3	1.25	1.802841	1.25	80387.0	1.442273	Y
4	IC 410-404842/4	2.5	3.705818	1.25	83405.0	1.482327	Y
5	ICISAV 410-404842/5	5.0	7.065789	1.25	79466.0	1.413158	Y
6	IC 410-404842/6	12.5	17.795165	1.25	83394.0	1.423613	Y
7	IC 410-404842/7	62.5	90.276315	1.25	86898.0	1.444421	Y



Calibration / 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

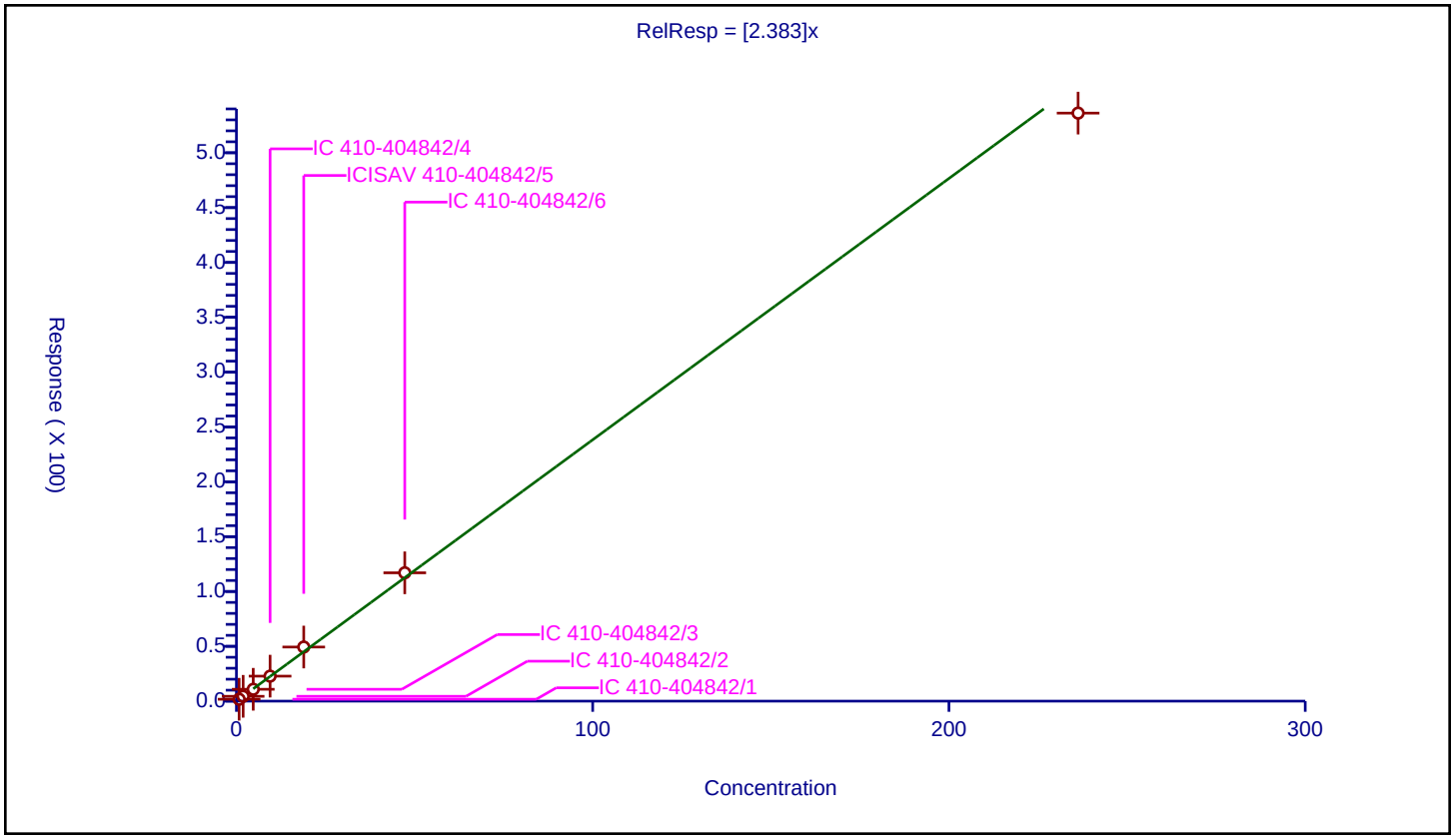
Curve Coefficients

Intercept:	0
Slope:	2.383

Error Coefficients

Standard Error:	21400000
Relative Standard Error:	5.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	0.756	1.730329	10.0	1113222.0	2.288795	Y
2	IC 410-404842/2	1.89	4.405162	10.0	1058263.0	2.330774	Y
3	IC 410-404842/3	4.725	10.826008	10.0	1071866.0	2.291219	Y
4	IC 410-404842/4	9.45	22.796717	10.0	1098817.0	2.412351	Y
5	ICISAV 410-404842/5	18.9	49.339912	10.0	1000776.0	2.610577	Y
6	IC 410-404842/6	47.25	117.014085	10.0	1044812.0	2.476489	Y
7	IC 410-404842/7	236.25	536.153927	10.0	945827.0	2.269435	Y



Calibration / Perfluorotetradecanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

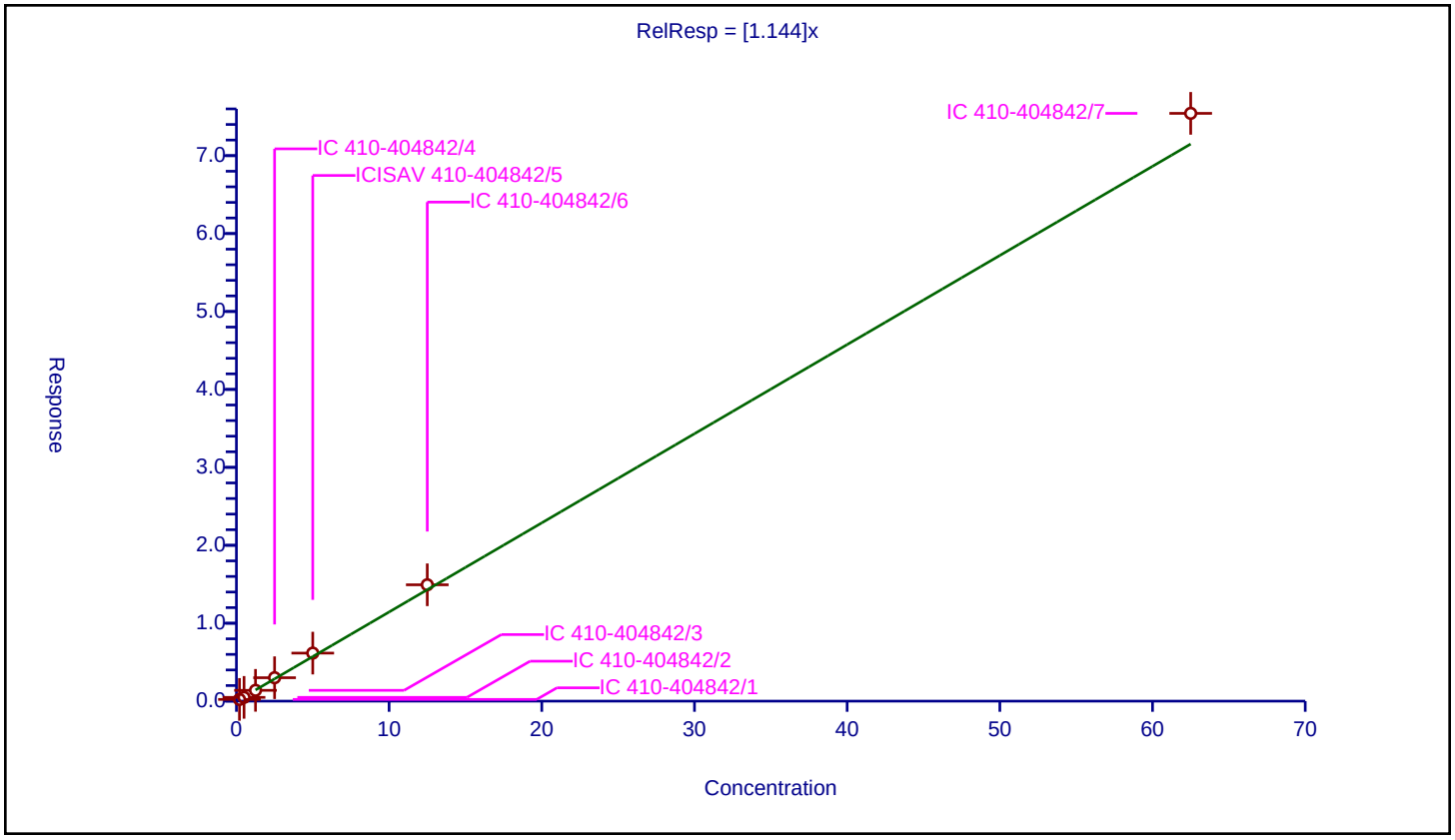
Curve Coefficients

Intercept:	0
Slope:	1.144

Error Coefficients

Standard Error:	2190000
Relative Standard Error:	8.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	0.2	0.219214	1.25	82790.0	1.096071	Y
2	IC 410-404842/2	0.5	0.483168	1.25	87542.0	0.966336	Y
3	IC 410-404842/3	1.25	1.385625	1.25	80387.0	1.1085	Y
4	IC 410-404842/4	2.5	3.004331	1.25	83405.0	1.201733	Y
5	ICISAV 410-404842/5	5.0	6.165561	1.25	79466.0	1.233112	Y
6	IC 410-404842/6	12.5	14.930226	1.25	83394.0	1.194418	Y
7	IC 410-404842/7	62.5	75.426578	1.25	86898.0	1.206825	Y



Calibration / Perfluorododecanesulfonic acid (PFDoS)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

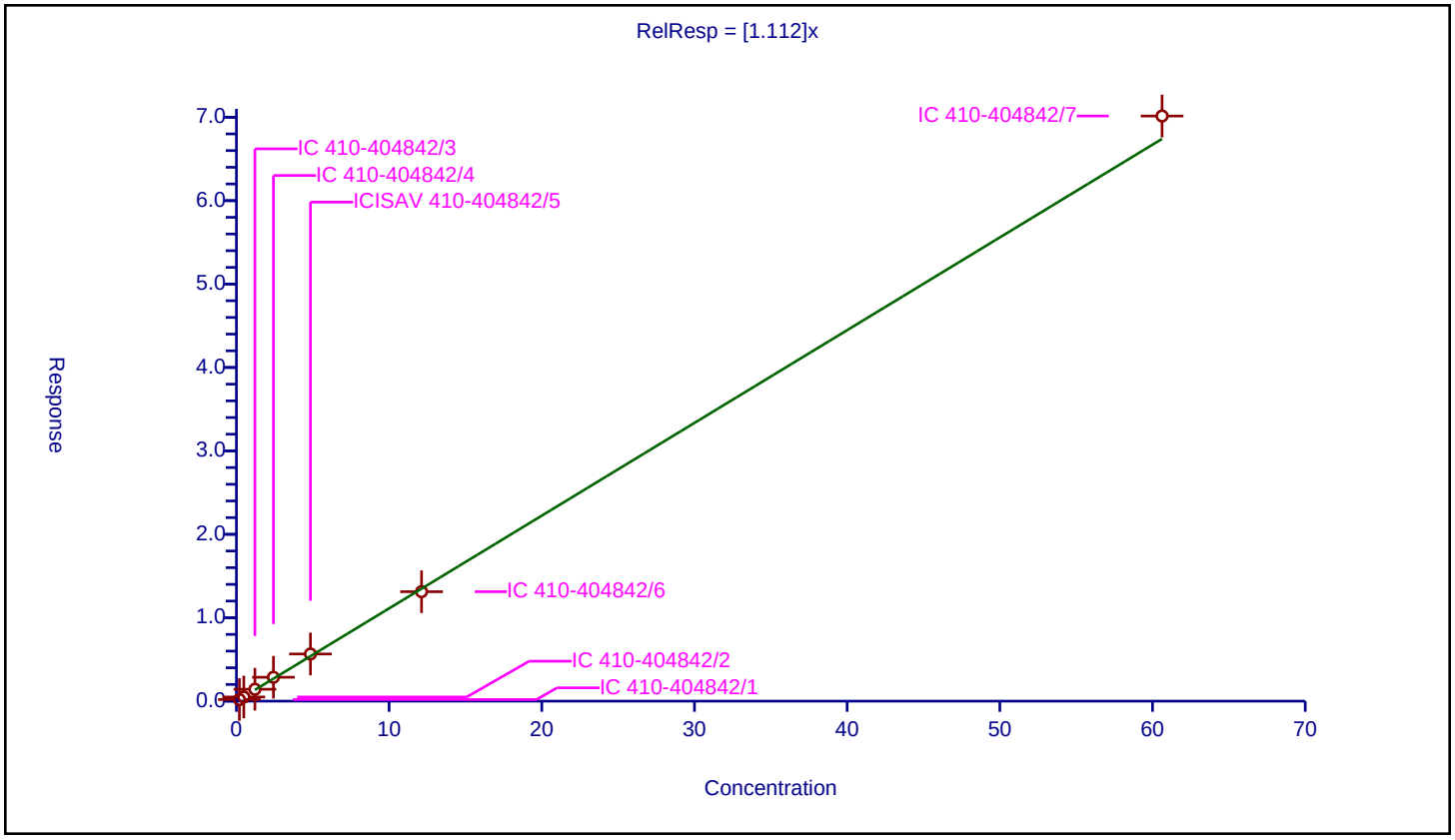
Curve Coefficients

Intercept:	0
Slope:	1.112

Error Coefficients

Standard Error:	4410000
Relative Standard Error:	6.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	0.194	0.193979	2.395	381500.0	0.999893	Y
2	IC 410-404842/2	0.485	0.495843	2.395	385075.0	1.022356	Y
3	IC 410-404842/3	1.2125	1.425697	2.395	348150.0	1.175833	Y
4	IC 410-404842/4	2.425	2.860974	2.395	358602.0	1.179783	Y
5	ICISAV 410-404842/5	4.85	5.653439	2.395	365200.0	1.165658	Y
6	IC 410-404842/6	12.125	13.122079	2.395	397697.0	1.082233	Y
7	IC 410-404842/7	60.625	70.143399	2.395	360047.0	1.157005	Y



Calibration / 2-(N-methylperfluoro-1-octanesulfonamido) ethanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

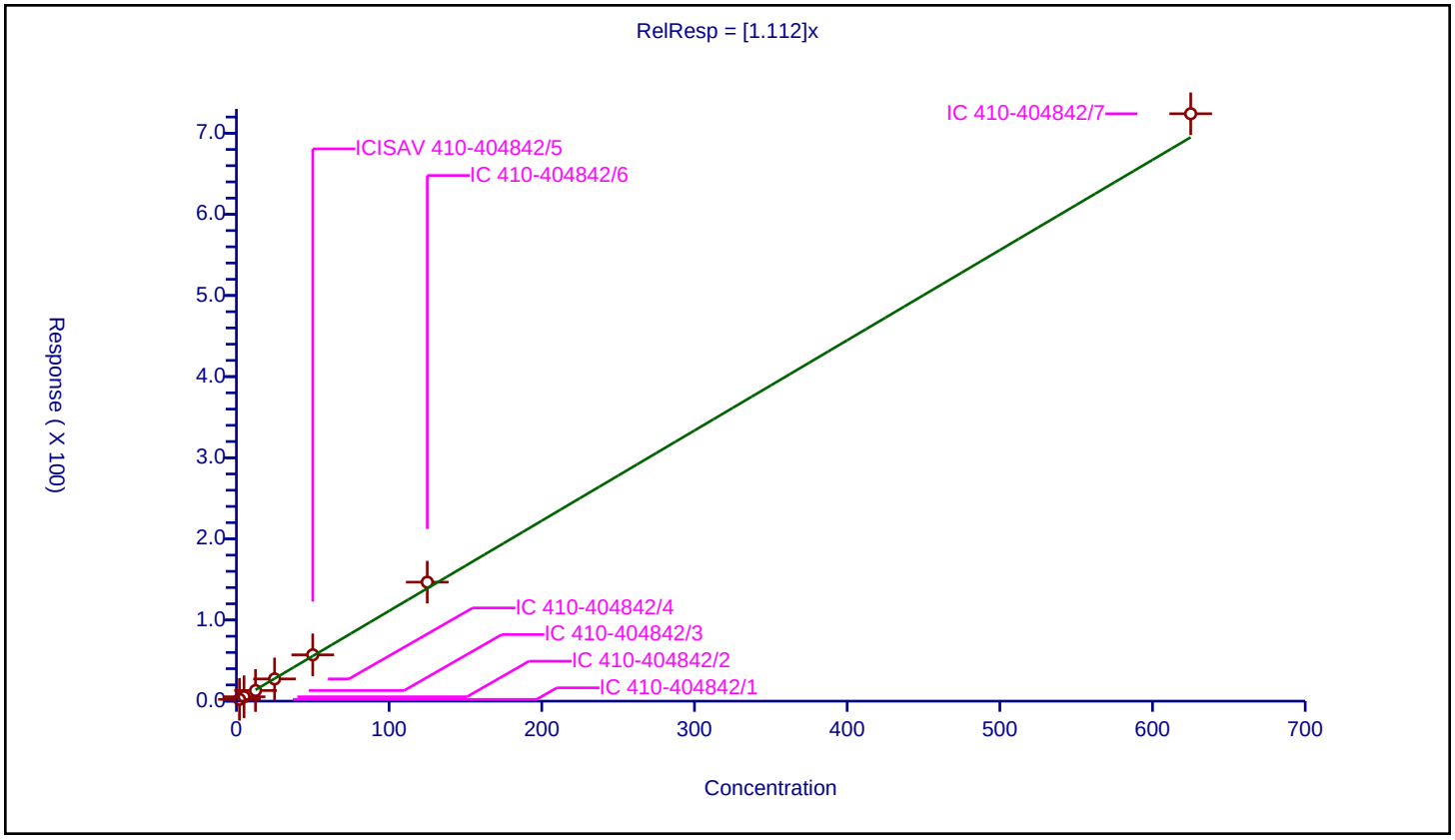
Curve Coefficients

Intercept:	0
Slope:	1.112

Error Coefficients

Standard Error:	11200000
Relative Standard Error:	4.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	2.0	2.17982	25.0	933850.0	1.08991	Y
2	IC 410-404842/2	5.0	5.388751	25.0	926402.0	1.07775	Y
3	IC 410-404842/3	12.5	13.085728	25.0	939642.0	1.046858	Y
4	IC 410-404842/4	25.0	27.398408	25.0	963879.0	1.095936	Y
5	ICISAV 410-404842/5	50.0	57.07323	25.0	910468.0	1.141465	Y
6	IC 410-404842/6	125.0	146.670501	25.0	934217.0	1.173364	Y
7	IC 410-404842/7	625.0	724.019304	25.0	920724.0	1.158431	Y



Calibration / NMeFOSA

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

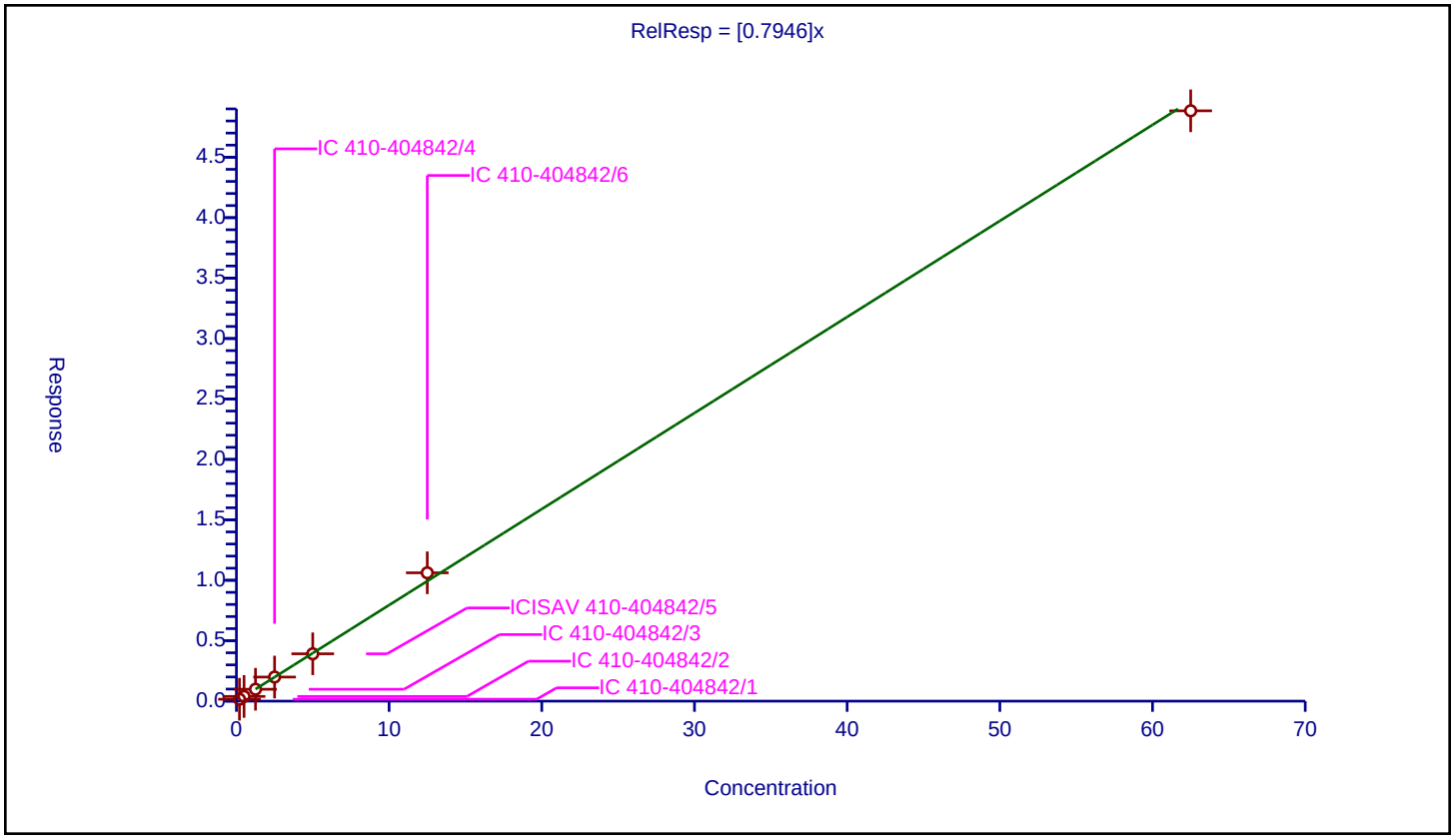
Curve Coefficients

Intercept:	0
Slope:	0.7946

Error Coefficients

Standard Error:	933000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	0.2	0.156915	2.5	115763.0	0.784577	Y
2	IC 410-404842/2	0.5	0.389816	2.5	106454.0	0.779633	Y
3	IC 410-404842/3	1.25	0.983063	2.5	109375.0	0.78645	Y
4	IC 410-404842/4	2.5	1.993745	2.5	113584.0	0.797498	Y
5	ICISAV 410-404842/5	5.0	3.9166	2.5	110527.0	0.78332	Y
6	IC 410-404842/6	12.5	10.617033	2.5	109589.0	0.849363	Y
7	IC 410-404842/7	62.5	48.841416	2.5	114094.0	0.781463	Y



Calibration / 2-(N-ethylperfluoro-1-octanesulfonamido) ethanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

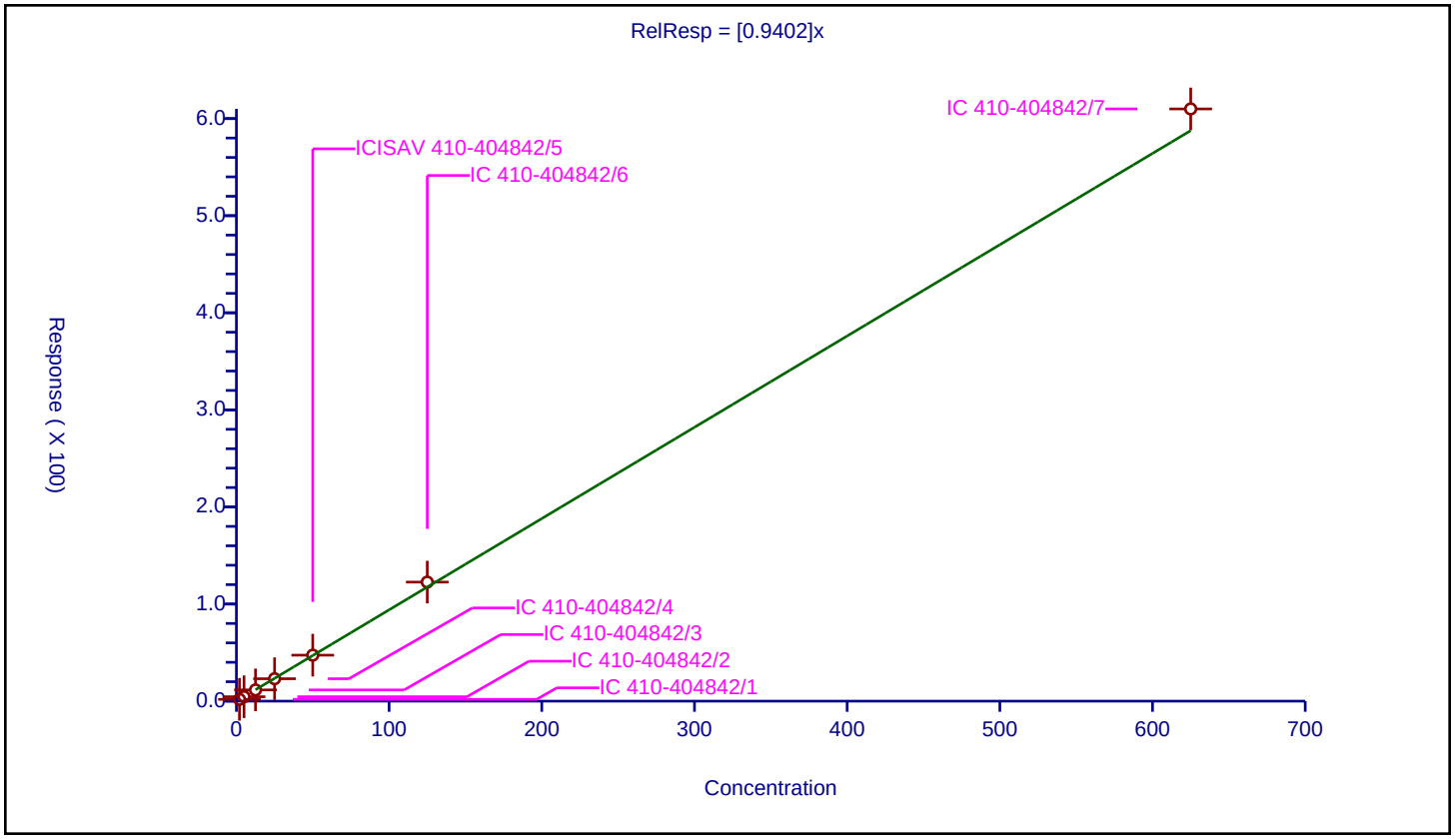
Curve Coefficients

Intercept:	0
Slope:	0.9402

Error Coefficients

Standard Error:	11700000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	2.0	1.842421	25.0	1151705.0	0.92121	Y
2	IC 410-404842/2	5.0	4.544345	25.0	1138657.0	0.908869	Y
3	IC 410-404842/3	12.5	11.549125	25.0	1122650.0	0.92393	Y
4	IC 410-404842/4	25.0	23.080721	25.0	1175845.0	0.923229	Y
5	ICISAV 410-404842/5	50.0	47.37467	25.0	1123697.0	0.947493	Y
6	IC 410-404842/6	125.0	122.602198	25.0	1152493.0	0.980818	Y
7	IC 410-404842/7	625.0	609.946811	25.0	1151560.0	0.975915	Y



Calibration / N-ethylperfluoro-1-octanesulfonamide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

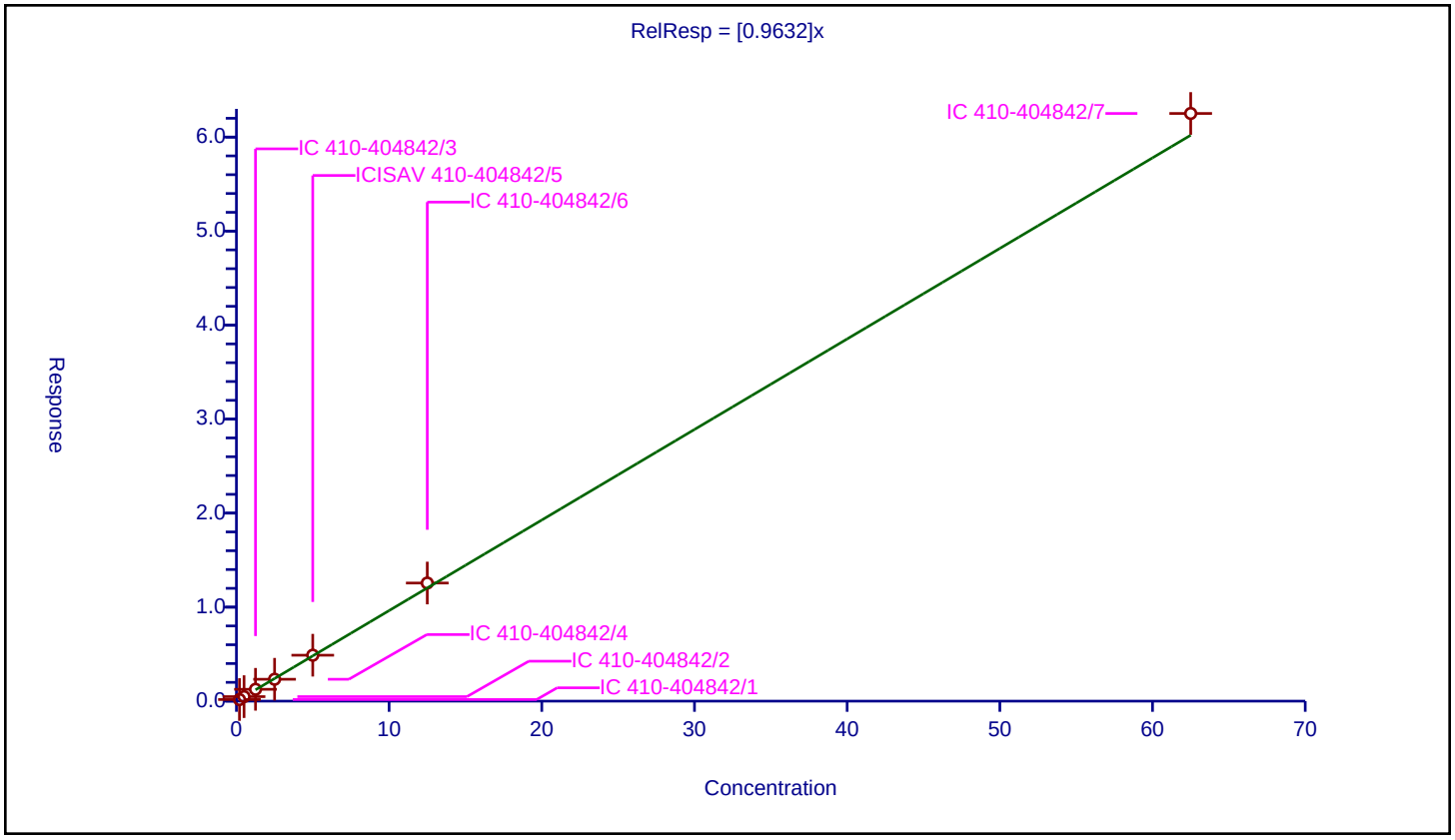
Curve Coefficients

Intercept:	0
Slope:	0.9632

Error Coefficients

Standard Error:	1230000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-404842/1	0.2	0.171901	2.5	124956.0	0.859503	Y
2	IC 410-404842/2	0.5	0.481174	2.5	116143.0	0.962348	Y
3	IC 410-404842/3	1.25	1.259574	2.5	109928.0	1.00766	Y
4	IC 410-404842/4	2.5	2.326333	2.5	126276.0	0.930533	Y
5	ICISAV 410-404842/5	5.0	4.885303	2.5	118573.0	0.977061	Y
6	IC 410-404842/6	12.5	12.562945	2.5	122448.0	1.005036	Y
7	IC 410-404842/7	62.5	62.512917	2.5	117090.0	1.000207	Y



FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 460-282979-1

SDG No.:

Lab Sample ID: ICV 410-404842/9 Calibration Date: 08/05/2023 11:38

Instrument ID: 30729 Calib Start Date: 08/05/2023 09:27

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 08/05/2023 11:25

Lab File ID: 23AUG05DCAL-12.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid	AveID	0.8351	0.7437		8.91	10.0	-10.9	30.0
3:3 FTCA	AveID	0.0907	0.0830		11.5	12.5	-8.4	30.0
Perfluoro-3-methoxypropanoic acid	AveID	1.812	1.808		4.99	5.00	-0.2	30.0
Perfluoropentanoic acid	AveID	1.811	1.734		4.79	5.00	-4.2	30.0
Perfluoro(4-methoxybutanoic acid)	AveID	1.455	1.445		4.97	5.00	-0.7	30.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	2.677	2.829		9.91	9.38	5.7	30.0
Perfluoro-3,6-dioxaheptanoic acid	AveID	0.7006	0.6086		4.34	5.00	-13.1	30.0
Perfluorohexanoic acid	AveID	5.431	4.722		2.17	2.50	-13.1	30.0
5:3 FTCA	AveID	1.607	1.322		51.4	62.5	-17.7	30.0
Perfluorobutanesulfonic acid	AveID	0.6048	0.5610		2.06	2.22	-7.2	30.0
HFPO-DA	AveID	0.6844	0.6057		8.85	10.0	-11.5	30.0
Perfluoroheptanoic acid	AveID	0.9439	0.8588		2.27	2.50	-9.0	30.0
PFEESA	AveID	28.68	23.37		3.63	4.45	-18.5	30.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	1.933	1.817		8.88	9.45	-6.0	30.0
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	AveID	4.563	3.848		8.01	9.50	-15.7	30.0
Perfluoropentanesulfonic acid	AveID	0.9858	0.8880		2.12	2.35	-9.9	30.0
Perfluorooctanoic acid	AveID	0.4940	0.4883		2.47	2.50	-1.2	30.0
Perfluorohexanesulfonic acid	AveID	0.5267	0.4942		2.14	2.29	-6.2	30.0
7:3 FTCA	AveID	1.139	0.8767		48.1	62.5	-23.1	30.0
Perfluorononanoic acid	AveID	0.8401	0.7814		2.33	2.50	-7.0	30.0
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	AveID	5.615	5.769		9.86	9.60	2.7	30.0
Perfluoroheptanesulfonic acid	AveID	1.010	0.9083		2.14	2.38	-10.1	30.0
NMeFOSAA	AveID	0.9373	0.9329		2.49	2.50	-0.5	30.0
Perfluorodecanoic acid	AveID	0.7111	0.6562		2.31	2.50	-7.7	30.0
NEtFOSAA	AveID	0.7481	0.7543		2.52	2.50	0.8	30.0
Perfluorooctanesulfonic acid	AveID	0.9211	0.8285		2.09	2.32	-10.1	30.0
Perfluoroundecanoic acid	AveID	0.8846	0.8654		2.45	2.50	-2.2	30.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	1.782	1.749		9.18	9.35	-1.8	30.0
Perfluorononanesulfonic acid	AveID	0.6776	0.6866		2.44	2.41	1.3	30.0
Perfluorododecanoic acid	AveID	0.9435	0.9318		2.47	2.50	-1.2	30.0
Perfluorooctanesulfonamide	AveID	1.032	0.9815		2.38	2.50	-4.9	30.0
Perfluorodecanesulfonic acid	AveID	1.066	0.9935		2.25	2.41	-6.8	30.0
Perfluorotridecanoic acid	AveID	1.001	1.015		2.54	2.50	1.5	30.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	2.383	2.338		9.27	9.45	-1.9	30.0
Perfluorotetradecanoic acid	AveID	1.144	1.219		2.67	2.50	6.6	30.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	1.112	1.002		2.19	2.43	-9.9	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 460-282979-1

SDG No.:

Lab Sample ID: ICV 410-404842/9 Calibration Date: 08/05/2023 11:38

Instrument ID: 30729 Calib Start Date: 08/05/2023 09:27

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 08/05/2023 11:25

Lab File ID: 23AUG05DCAL-12.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	AveID	1.112	1.056		23.7	25.0	-5.1	30.0
NMeFOSA	AveID	0.7946	0.8074		2.54	2.50	1.6	30.0
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	AveID	0.9402	0.8812		23.4	25.0	-6.3	30.0
N-ethylperfluoro-1-octanesulfonamide	AveID	0.9632	0.8846		2.30	2.50	-8.2	30.0
13C4 PFBA	Ave	0.8117	0.8442		10.4	10.0	4.0	30.0
13C5 PFPeA	Ave	0.7185	0.7546		5.25	5.00	5.0	30.0
M2-4:2 FTS	Ave	0.0734	0.0746		4.76	4.69	1.5	30.0
13C5 PFHxA	Ave	0.1748	0.2112		3.02	2.50	20.8	30.0
13C3 PFBS	Ave	1.037	1.126		2.53	2.33	8.5	30.0
13C3 HFPO-DA	Ave	1.103	1.188		10.8	10.0	7.6	30.0
13C4 PFHpA	Ave	2.096	2.223		2.65	2.50	6.1	30.0
M2-6:2 FTS	Ave	0.0379	0.0426		5.34	4.76	12.3	30.0
13C8 PFOA	Ave	23.77	19.34		2.04	2.50	-18.6	30.0
13C3 PFHxS	Ave	1.127	1.166		2.45	2.37	3.4	30.0
13C9 PFNA	Ave	1.056	1.041		1.23	1.25	-1.4	30.0
M2-8:2 FTS	Ave	0.0202	0.0187		4.43	4.80	-7.8	30.0
d3-NMeFOSAA	Ave	0.4974	0.5324		5.35	5.00	7.0	30.0
13C6 PFDA	Ave	1.009	1.117		1.38	1.25	10.7	30.0
d5-NEtFOSAA	Ave	0.4628	0.4540		4.91	5.00	-1.9	30.0
13C8 PFOS	Ave	1.425	1.561		2.62	2.40	9.6	30.0
13C7 PFUnA	Ave	0.9271	0.9728		1.31	1.25	4.9	30.0
13C2-PFDoDA	Ave	0.8228	0.8208		1.25	1.25	-0.2	30.0
13C8 FOSA	Ave	2.088	2.306		2.76	2.50	10.5	30.0
13C2 PFTeDA	Ave	0.4633	0.4566		1.23	1.25	-1.5	30.0
d7-N-MeFOSE-M	Ave	0.3433	0.3671		26.7	25.0	6.9	30.0
d3-NMePFOSA	Ave	0.4096	0.4234		2.58	2.50	3.4	30.0
d9-N-EtFOSE-M	Ave	0.4215	0.4482		26.6	25.0	6.3	30.0
d5-NEtPFOSA	Ave	0.4391	0.4892		2.79	2.50	11.4	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-12.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 05-Aug-2023 11:38:33 ALS Bottle#: 20009 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: Plate: 1 Rack: 1 410-0090708-009
Operator ID: US19_USR_INS20263 Instrument ID: 30729
Sublist:

Method: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\PFAS_30729_1633.m
Limit Group: LC - 1633 ICAL
Last Update: 05-Aug-2023 12:09:29 Calib Date: 05-Aug-2023 11:25:28
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-11.d

Column 1 : Det: EXP1
Process Host: CTX1666

First Level Reviewer: UCD3 Date: 05-Aug-2023 11:57:37
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4-PFBA										
216.80 > 171.90	2.932	2.939	-0.007	1.000	1343244	10.4		104	80664	
* 3 13C3PFBA										
216.00 > 172.00	2.932	2.939	-0.007		795548	5.00			4793	
1 PFBA										
212.80 > 168.90	2.932	2.939	-0.007	1.000	998977	8.91			4861	
5 3:3 FTCA										
241.00 > 177.00	3.164	3.163	0.001	0.919	79872	11.4	Target=1.11		5649	
241.00 > 117.00	3.164	3.163	0.001	0.919	77841		1.03(0.55-1.66)		2118	
4 PFMPA										
229.00 > 84.90	3.164	3.163	0.001	0.919	695800	4.99			48623	
6 PFPA										M
263.00 > 219.00	3.443	3.442	0.001	1.000	667273	4.79	Target=1273.32		20644	
263.00 > 68.90	3.443	3.442	0.001	1.000	433		1541.05(636.66-1909.99)		22.3	M
D 7 13C5 PFPeA										
268.30 > 223.00	3.443	3.452	-0.009	0.918	384793	5.25		105	24472	
8 PFMBA										
279.00 > 85.10	3.557	3.556	0.001	1.033	556153	4.97			34651	
D 10 13C2-4:2FTS										
329.10 > 80.90	3.636	3.636	0.0	0.826	64095	4.76	Target=0.35	102	3092	
329.10 > 309.00	3.625	3.636	-0.011	0.824	215295		0.30(0.18-0.53)	102	13204	
9 4:2FTS										
327.10 > 307.00	3.636	3.636	0.0	1.000	362474	9.91	Target=1.40		22035	
327.10 > 80.90	3.625	3.636	-0.011	0.997	212751		1.70(0.70-2.10)		12569	
12 NFDHA										
295.00 > 201.00	3.719	3.728	-0.010	0.992	65531	4.34	Target=2.17		4324	
295.00 > 84.90	3.719	3.728	-0.010	0.992	29689		2.21(1.08-3.25)		1935	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
13 PFHxA										
313.00 > 269.00	3.749	3.749	0.0	1.000	254201	2.17	Target=13.63		12218	
313.00 > 118.90	3.749	3.749	0.0	1.000	19358		13.13(6.82-20.45)		1318	
D 14 13C5 PFHxA										R
318.00 > 273.00	3.749	3.759	-0.010	1.000	53835	3.02	Target=15.34	121	3404	R
318.00 > 120.30	3.739	3.759	-0.020	0.997	2264		23.78(7.67-23.01)	121	162	
* 15 13C2 PFHxA										
315.10 > 270.00	3.749	3.759	-0.010		254950	2.50	Target=103.53		16568	
315.10 > 119.40	3.739	3.759	-0.020		2612		97.61(51.76-155.29)		147	
16 5:3 FTCA										
341.00 > 237.10	3.844	3.843	0.001	1.025	1779698	51.4	Target=2.68		106610	
341.00 > 217.00	3.844	3.843	0.001	1.025	642841		2.77(1.34-4.01)		39374	
17 PFBS										
298.70 > 79.90	3.855	3.854	0.001	1.000	256697	2.06	Target=3.41		15883	
298.70 > 98.80	3.855	3.854	0.001	1.000	82542		3.11(1.70-5.11)		5182	
D 18 13C3 PFBS										
302.10 > 79.90	3.855	3.866	-0.011	0.876	480748	2.53	Target=6.99	109	29887	
302.10 > 98.90	3.844	3.866	-0.022	0.874	69331		6.93(3.50-10.49)	109	4491	
D 20 13C3 HFPO-DA										
286.90 > 168.90	3.866	3.877	-0.011	1.031	1211026	10.8	Target=29.00	108	73699	
286.90 > 184.90	3.855	3.877	-0.022	1.028	43784		27.66(14.50-43.50)	108	2750	
19 HFPO-DA										
284.90 > 168.90	3.866	3.877	-0.011	1.000	733554	8.85	Target=17.67		3817	
284.90 > 184.90	3.866	3.877	-0.011	1.000	38529		19.04(8.84-26.51)		2447	
23 PFEESA										
314.80 > 134.90	4.007	4.006	0.001	1.069	2239802	3.63	Target=14.15		105708	
314.80 > 82.90	3.996	4.006	-0.010	1.066	158459		14.13(7.08-21.23)		3873	
D 25 13C4 PFHpA										
367.10 > 322.00	4.007	4.017	-0.010	1.069	566865	2.65		106	34603	
24 PFHpA										
363.10 > 319.00	4.007	4.017	-0.010	1.000	486800	2.27	Target=3.62		22225	
363.10 > 169.00	4.007	4.017	-0.010	1.000	130327		3.74(1.81-5.44)		8105	
26 ADONA										
376.90 > 250.90	4.094	4.105	-0.011	1.059	2078855	8.88	Target=12.84		92689	
376.90 > 84.80	4.094	4.105	-0.011	1.059	172560		12.05(6.42-19.27)		10148	
27 6:2FTS										
427.10 > 407.00	4.117	4.127	-0.010	0.997	285256	8.01	Target=1.71		16723	
427.10 > 80.90	4.117	4.127	-0.010	0.997	178761		1.60(0.85-2.56)		10833	
D 29 13C2-6:2FTS										R
429.10 > 80.90	4.128	4.127	0.001	0.938	37107	5.34	Target=0.12	112	2396	R
429.10 > 409.00	4.117	4.127	-0.010	0.936	192042		0.19(0.06-0.18)	112	11777	
28 PFPeS										
349.10 > 79.90	4.150	4.149	0.001	0.943	446304	2.12	Target=3.85		26352	
349.10 > 98.90	4.139	4.149	-0.010	0.941	127633		3.50(1.93-5.78)		7813	
32 PFOA										
413.00 > 369.00	4.249	4.249	0.0	1.000	296973	2.47	Target=2.36		351	
413.00 > 169.00	4.239	4.249	-0.010	0.998	119465		2.49(1.18-3.53)		346	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 30 13C4 PFOA										
417.10 > 172.00	4.249	4.249	0.0		31444	2.50			1989	
D 31 13C8 PFOA										
421.10 > 376.00	4.249	4.249	0.0	1.000	608175	2.03		81.4	38008	
* 35 18O2 PFHxS										
403.00 > 83.90	4.400	4.399	0.001		434435	2.37			22272	
D 36 13C3 PFHxS										
402.10 > 79.90	4.400	4.408	-0.008	1.000	506334	2.45	Target=3.90	103	34134	
402.10 > 98.80	4.391	4.408	-0.017	0.998	129422		3.91(1.95-5.85)	103	8805	
34 PFHxS										
398.70 > 79.90	4.400	4.408	-0.008	1.000	241236	2.14	Target=3.39		128	
398.70 > 98.90	4.400	4.408	-0.008	1.000	71995		3.35(1.69-5.08)		178	
33 7:3 FTCA										
441.00 > 316.90	4.419	4.427	-0.008	1.178	1179986	48.1	Target=0.66		76283	
441.00 > 336.90	4.419	4.427	-0.008	1.178	1941666		0.61(0.33-1.00)		126489	
39 PFNA										
463.00 > 419.00	4.481	4.490	-0.009	0.998	245064	2.33	Target=5.25		487	
463.00 > 219.00	4.481	4.490	-0.009	0.998	54936		4.46(2.63-7.88)		323	
* 37 13C5 PFNA										
468.00 > 423.00	4.481	4.490	-0.009		150644	1.25			10352	
D 38 13C9 PFNA										
472.10 > 427.00	4.491	4.490	0.001	1.002	156816	1.23		98.6	10346	
D 41 13C2-8:2FTS										
529.10 > 80.90	4.599	4.599	0.0	1.045	16427	4.43	Target=0.14	92.2	1143	
529.10 > 509.00	4.589	4.599	-0.010	1.043	110055		0.15(0.07-0.21)	92.2	7338	
40 8:2FTS										
527.10 > 507.00	4.599	4.599	0.0	1.000	189538	9.86	Target=1.21		12156	
527.10 > 80.80	4.589	4.599	-0.010	0.998	171719		1.10(0.60-1.81)		11611	
42 PFHpS										
449.00 > 79.90	4.670	4.669	0.001	0.932	379427	2.14	Target=3.73		12508	
449.00 > 98.80	4.670	4.669	0.001	0.932	108619		3.49(1.86-5.59)		7280	
D 44 d3-NMeFOSAA										
573.20 > 419.00	4.710	4.719	-0.009	0.940	299022	5.35		107	14960	
43 NMeFOSAA										
570.10 > 419.00	4.710	4.719	-0.009	1.000	139482	2.49	Target=1.77		43524	
570.10 > 483.00	4.710	4.719	-0.009	1.000	70365		1.98(0.89-2.66)		394	
45 PFDA										
512.90 > 469.00	4.757	4.765	-0.008	0.998	280683	2.31	Target=6.01		11441	
512.90 > 219.00	4.766	4.765	0.001	1.000	45933		6.11(3.00-9.01)		3212	
D 47 13C6 PFDA										
519.10 > 474.10	4.766	4.775	-0.009	1.000	213864	1.38		111	14615	
* 46 13C2 PFDA										
515.10 > 470.10	4.766	4.775	-0.009		191544	1.25			13070	
D 49 d5-NEtFOSAA										
589.20 > 419.00	4.863	4.871	-0.008	0.970	254984	4.90		98.1	12949	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
48 NEtFOSAA										
584.20 > 419.10	4.863	4.871	-0.008	1.000	96164	2.52	Target=1.68		551	
584.20 > 526.00	4.863	4.871	-0.008	1.000	57645		1.67(0.84-2.53)		98.8	
* 52 13C4 PFOS										
502.80 > 79.90	5.013	5.021	-0.009		269040	2.40	Target=4.18		10883	
502.80 > 98.90	5.003	5.021	-0.018		74865		3.59(2.09-6.27)		5137	
D 51 13C8 PFOS										
507.10 > 79.90	5.013	5.021	-0.009	1.000	419918	2.62	Target=3.96	110	12165	
507.10 > 98.90	5.003	5.021	-0.018	0.998	100666		4.17(1.98-5.94)	110	6731	
50 PFOS										
498.90 > 79.90	5.013	5.021	-0.009	1.000	337023	2.09	Target=4.55		271	
498.90 > 98.80	5.003	5.021	-0.018	0.998	73632		4.58(2.28-6.83)		539	
53 PFUnA										
563.10 > 519.00	5.142	5.158	-0.016	1.000	322510	2.45	Target=11.29		13216	
563.10 > 269.10	5.142	5.158	-0.016	1.000	29536		10.92(5.64-16.93)		1985	
D 54 13C7 PFUnA										
570.00 > 525.10	5.142	5.158	-0.016	1.079	186328	1.31		105	12637	
55 9ClFOS										
530.80 > 351.00	5.363	5.371	-0.009	1.387	1980711	9.18	Target=3.20		130394	
532.80 > 353.00	5.354	5.371	-0.017	1.385	585871		3.38(1.60-4.81)		19748	
56 PFNS										
548.80 > 79.90	5.472	5.486	-0.014	1.092	289502	2.44	Target=4.70		20251	
548.80 > 98.80	5.472	5.486	-0.014	1.092	65353		4.43(2.35-7.05)		4549	
D 58 PFDoDA										
615.10 > 570.00	5.623	5.637	-0.014	1.180	157224	1.25		99.8	11393	
57 PFDoA										
613.10 > 569.00	5.623	5.637	-0.014	1.000	292996	2.47	Target=16.23		15794	
613.10 > 319.00	5.623	5.637	-0.014	1.000	19047		15.38(8.12-24.35)		1461	
60 PFOSA										
498.10 > 77.90	5.920	5.920	0.0	1.000	635610	2.38	Target=58.34		5433	
498.10 > 478.00	5.920	5.920	0.0	1.000	10119		62.81(29.17-87.51)		242	
D 59 13C8 FOSA										
506.10 > 77.80	5.920	5.920	0.0	1.181	647622	2.76		110	44730	
61 PFDS										
599.00 > 79.90	5.928	5.944	-0.016	1.183	420227	2.25	Target=4.36		29155	
599.00 > 98.80	5.928	5.944	-0.016	1.183	98776		4.25(2.18-6.54)		5588	
62 PFTrDA										
663.00 > 619.00	6.070	6.076	-0.006	0.938	248420	2.54	Target=3.59		18213	
663.00 > 168.90	6.063	6.076	-0.013	0.937	61419		4.04(1.79-5.38)		4833	
63 11ClFOS										
630.90 > 450.90	6.250	6.272	-0.022	1.616	2675852	9.27	Target=5.30		168248	
632.90 > 452.90	6.250	6.272	-0.022	1.616	519204		5.15(2.65-7.95)		33141	
64 PFTeDA										
713.10 > 669.00	6.461	6.482	-0.021	0.998	213298	2.67	Target=3.31		13540	
713.10 > 168.90	6.461	6.482	-0.021	0.998	61173		3.49(1.66-4.97)		4156	
D 65 13C2 PFTeDA										
715.20 > 670.00	6.471	6.482	-0.011	1.358	87462	1.23		98.5	5815	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 67 d7-N-Me-FOSE										
623.20 > 58.90	6.695	6.696	-0.001	1.336	1030830	26.7		107	42466	
66 PFDoS										
699.10 > 79.90	6.695	6.708	-0.013	1.336	425909	2.18	Target=4.96		23458	
699.10 > 98.80	6.683	6.708	-0.025	1.333	95622		4.45(2.48-7.44)		5407	
68 N-MeFOSE-M										
616.10 > 58.90	6.707	6.720	-0.013	1.002	1088228	23.7			9786	
D 69 d3-NMePFOSA										
515.00 > 219.00	6.826	6.839	-0.013	1.362	118905	2.58		103	6614	
70 NMeFOSA										
511.90 > 219.00	6.838	6.839	-0.001	1.002	96005	2.54	Target=0.78		2215	
511.90 > 169.00	6.826	6.839	-0.013	1.000	120355		0.80(0.39-1.17)		1711	
D 71 d9-N-EtFOSE										
639.20 > 58.90	6.971	6.972	-0.001	1.391	1258607	26.6		106	37815	
72 N-EtFOSE-M										
630.00 > 58.90	6.981	6.992	-0.011	1.001	1109141	23.4			12901	
D 73 d5-NEtPFOSA										
531.10 > 219.00	7.083	7.094	-0.011	1.413	137383	2.79		111	6544	
74 N-EtFOSA-M										
526.00 > 219.00	7.093	7.094	-0.001	1.001	121534	2.30	Target=3.00		1412	
526.00 > 169.00	7.093	7.094	-0.001	1.001	40062		3.03(1.50-4.50)		591	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Reagents:

PFC_ICV_1633_00011 Amount Added: 1.00 Units: mL

Report Date: 05-Aug-2023 12:09:34 Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-12.d

Injection Date: 05-Aug-2023 11:38:33 Instrument ID: 30729

Lims ID: ICV

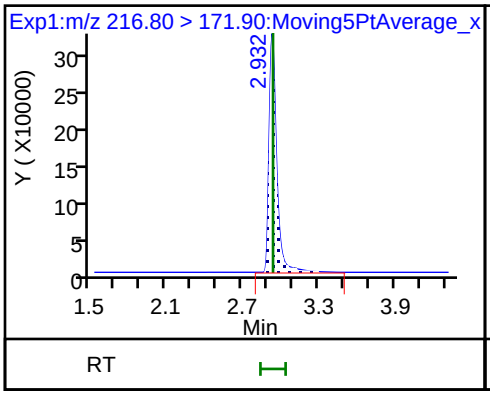
Client ID:

Operator ID: US19_USR_INS20263 ALS Bottle#: 20009 Worklist Smp#: 9

Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: PFAS_30729_1633 Limit Group: LC - 1633 ICAL

D 2 13C4-PFBA



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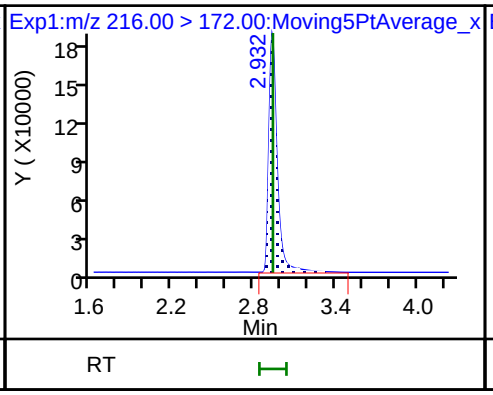
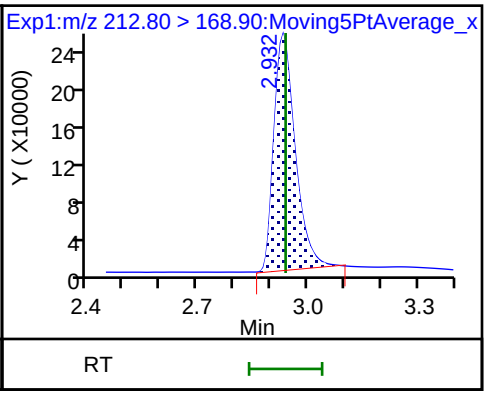
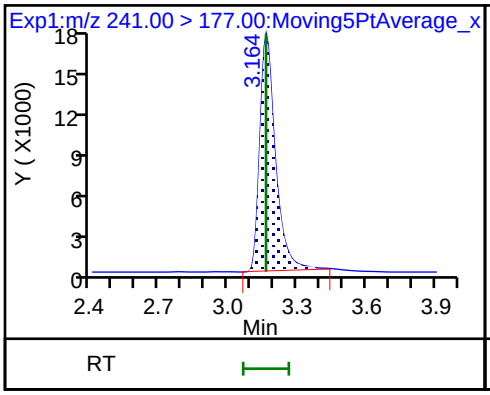


1 PFBA



5 3:3 FTCA



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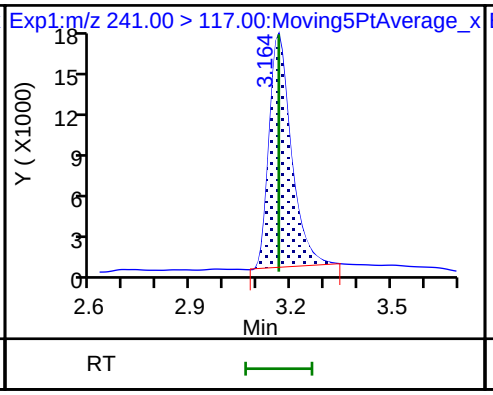

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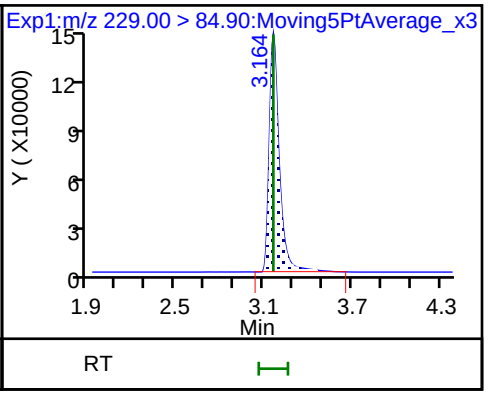

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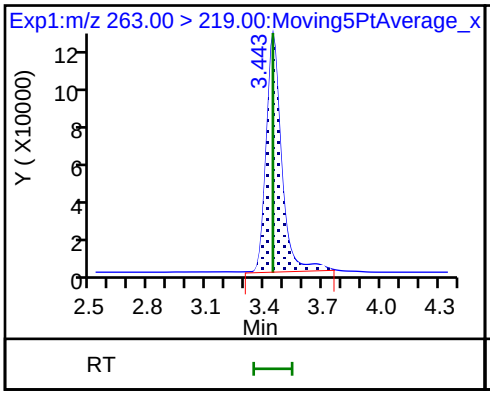
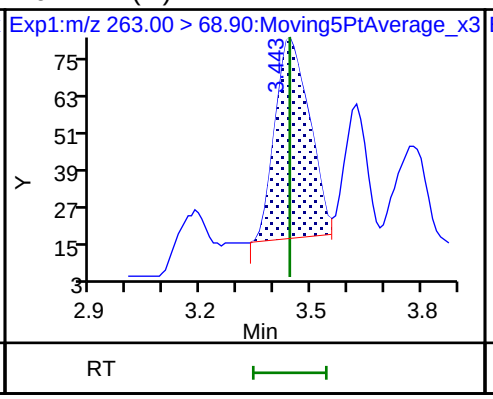


6 PFPA (M)



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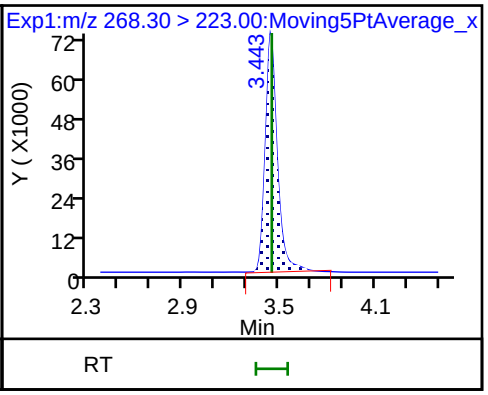

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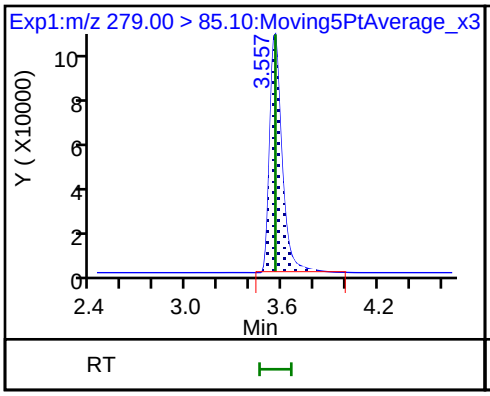

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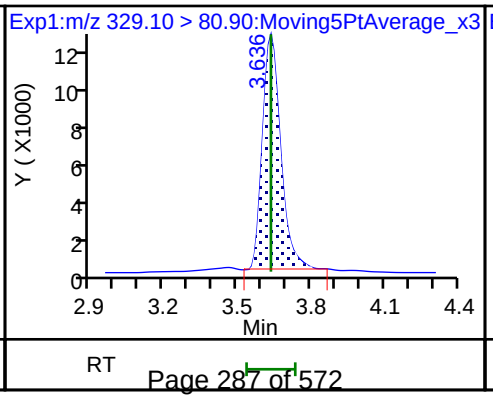

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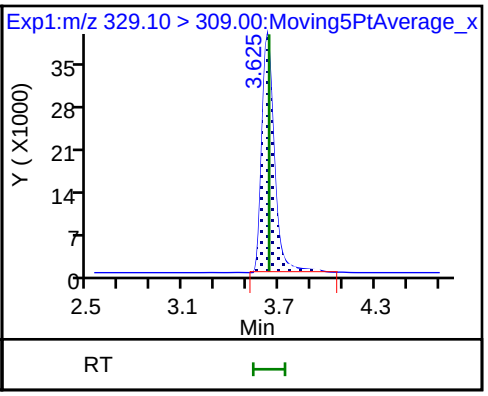

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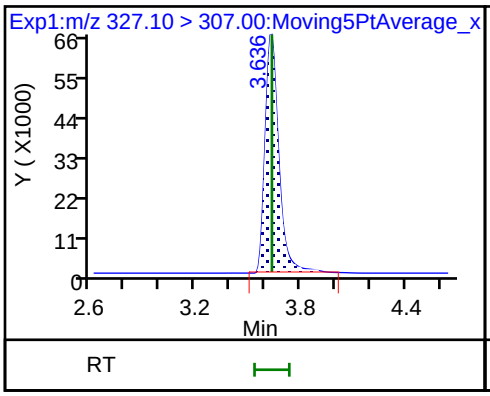

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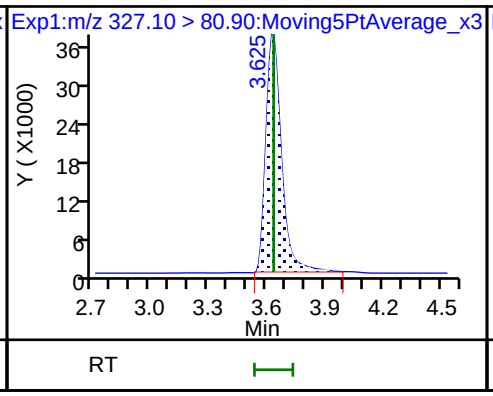
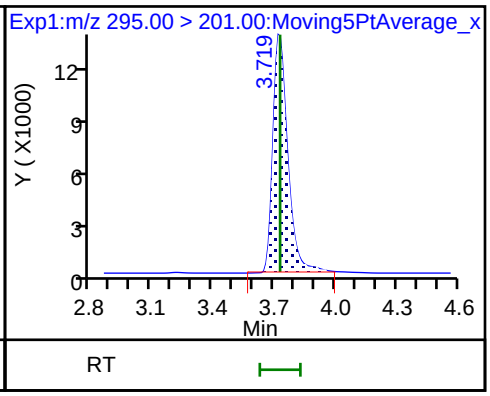


12 NFDHA



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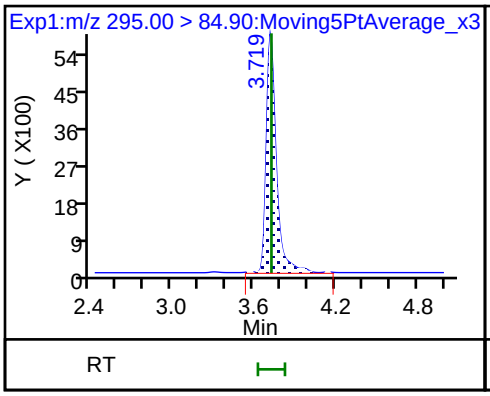

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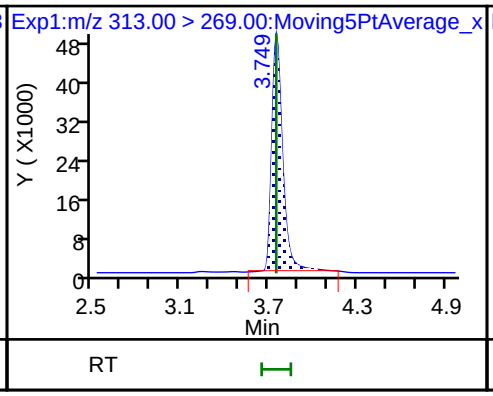

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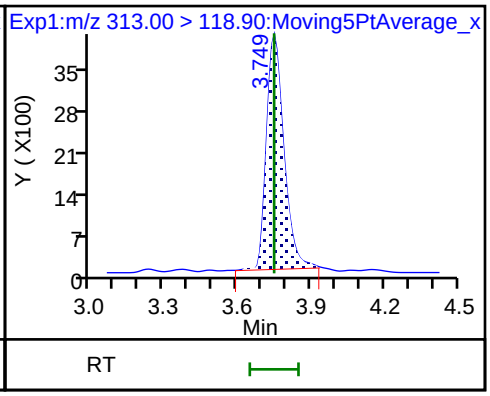

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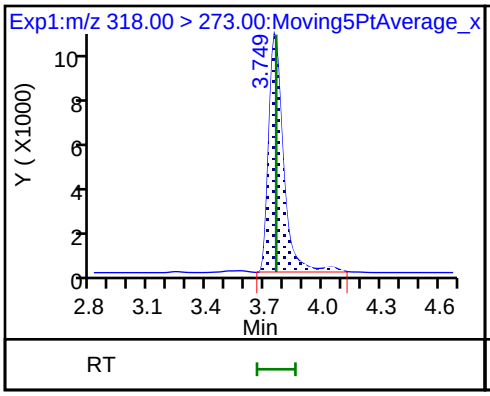

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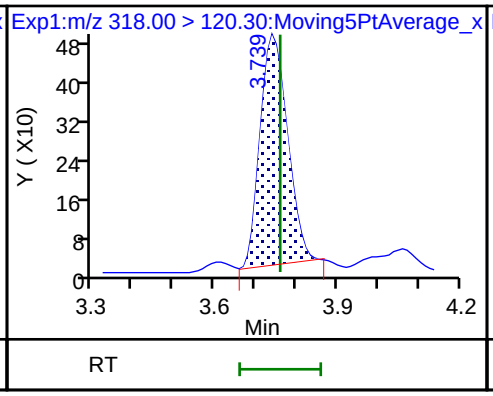

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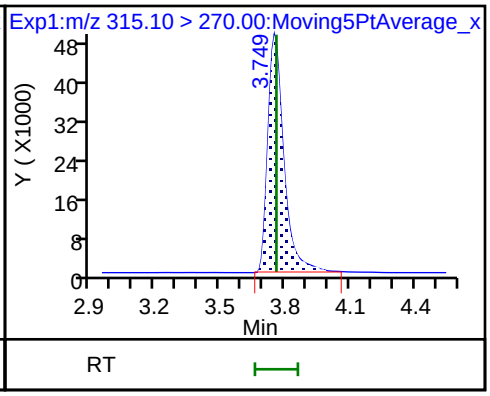

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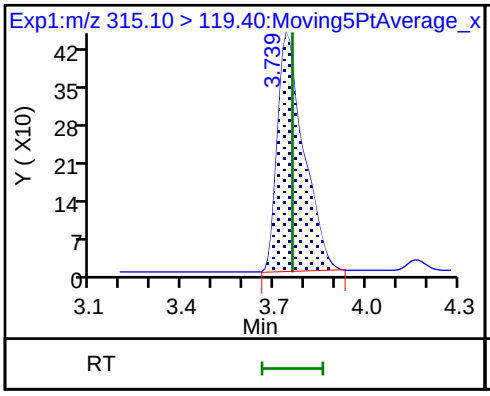
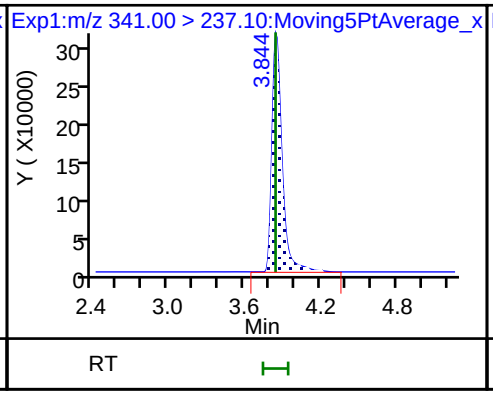
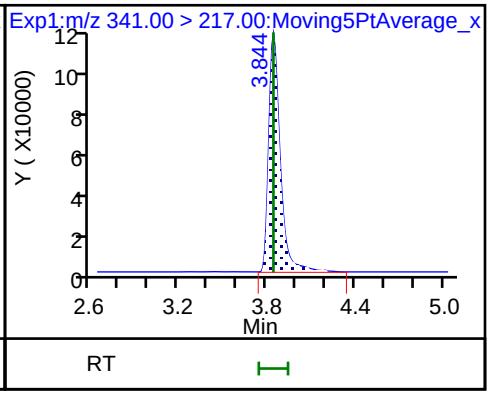


16 5:3 FTCA



16 5:3 FTCA



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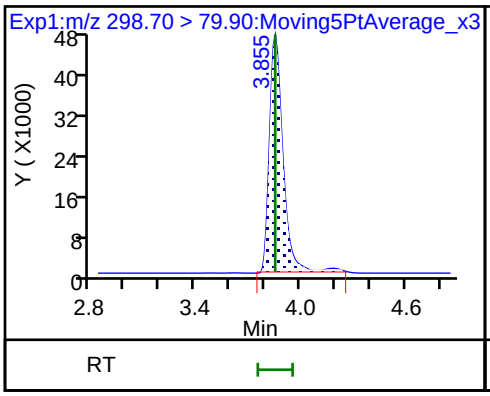

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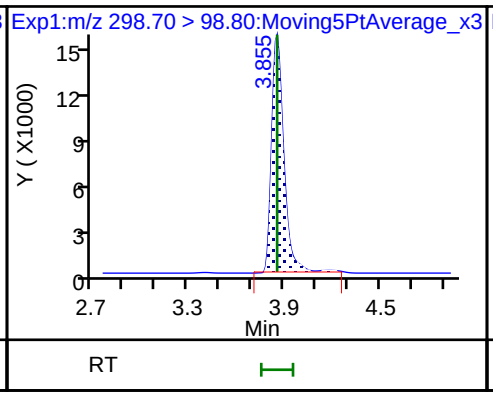

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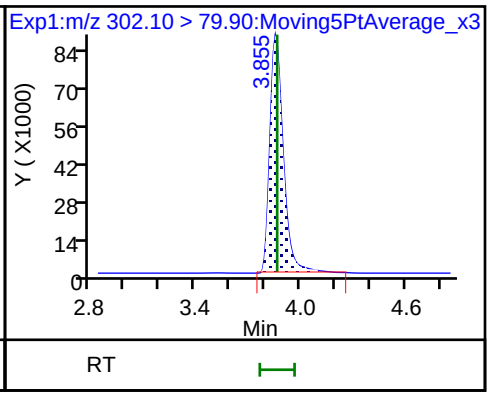

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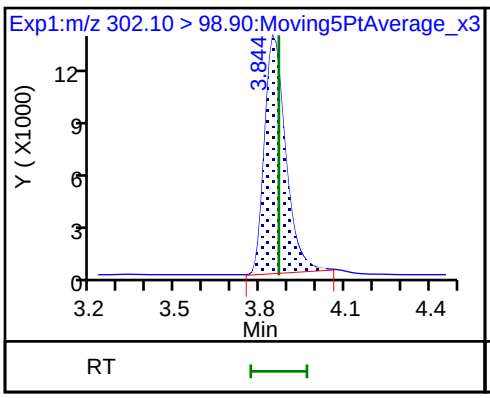

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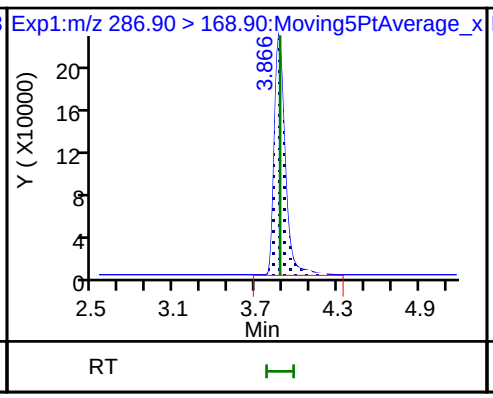

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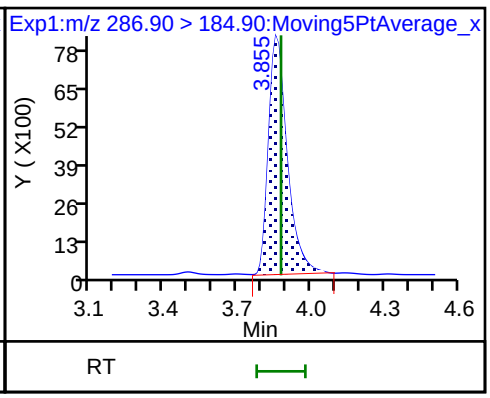

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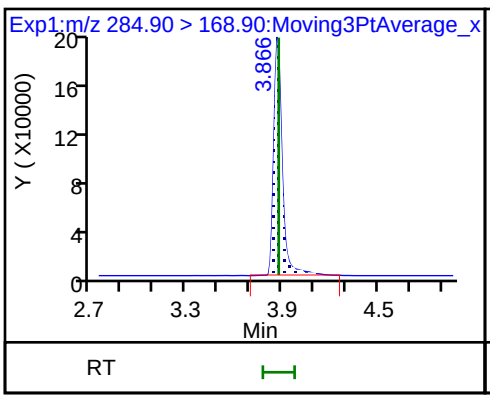

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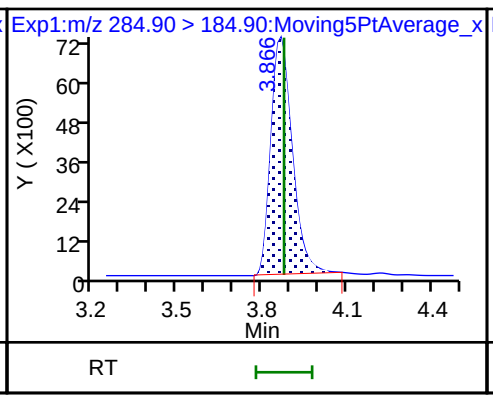

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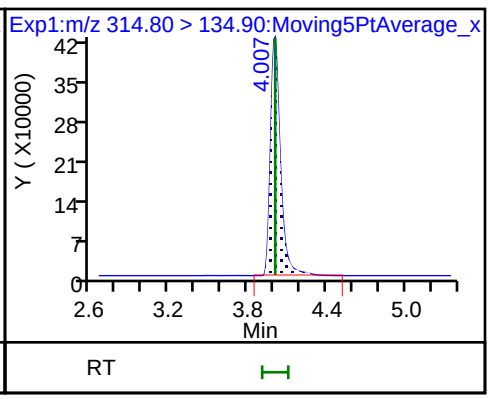

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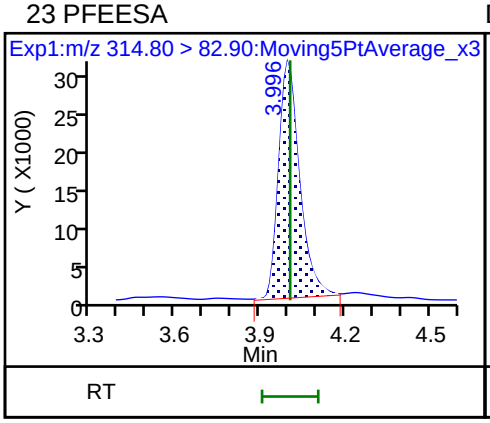

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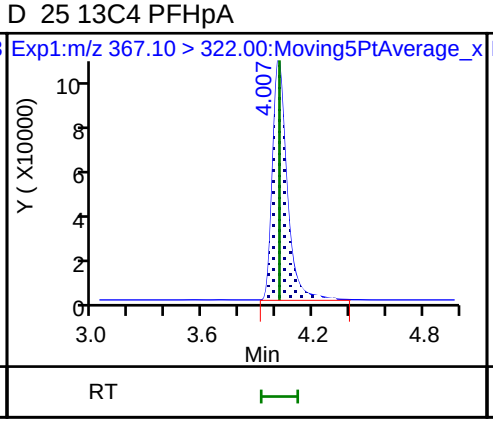

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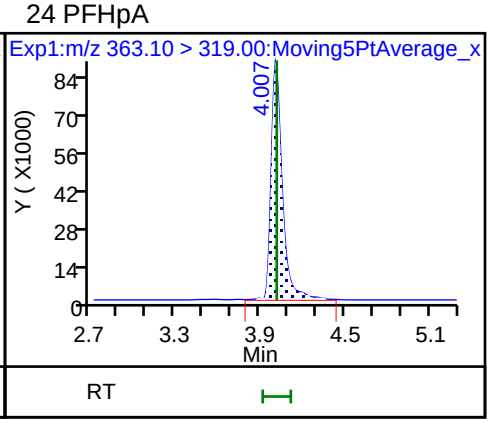

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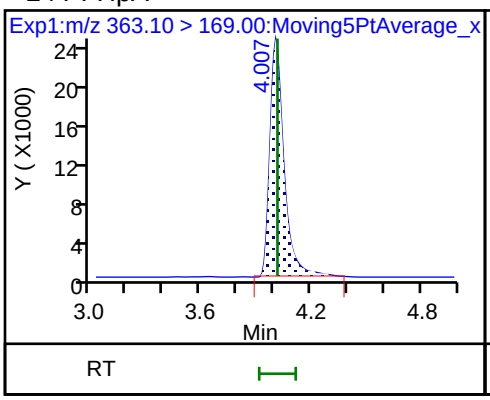

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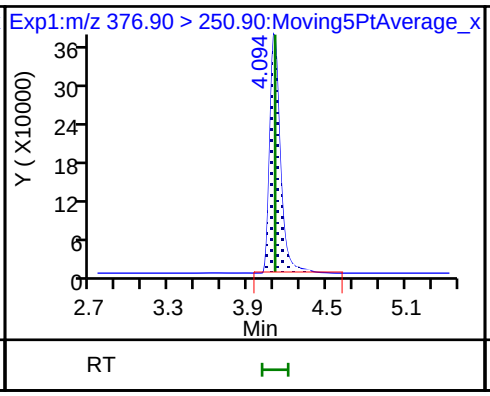

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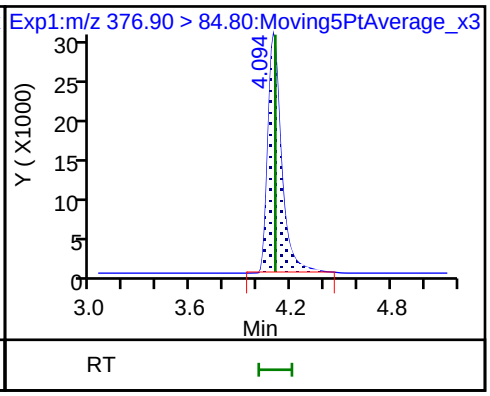

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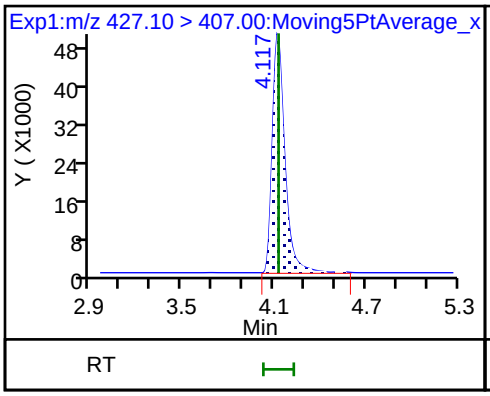

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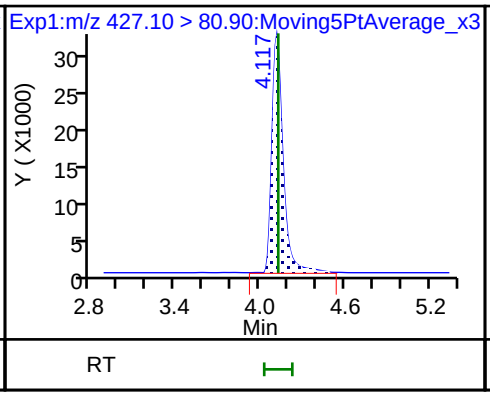

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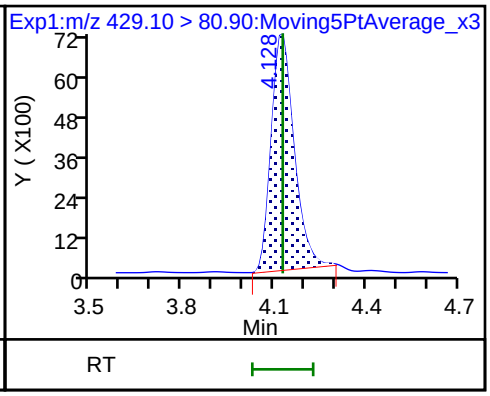

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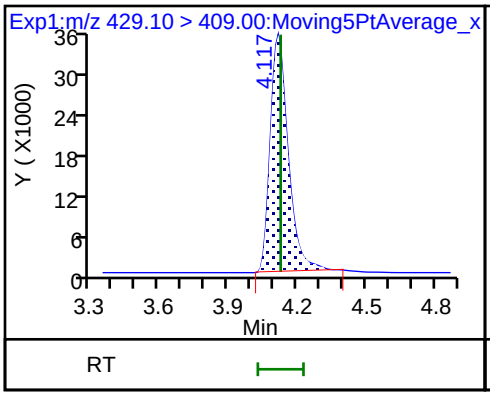
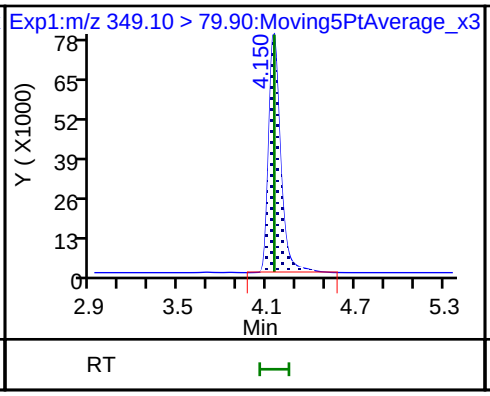


28 PFPeS



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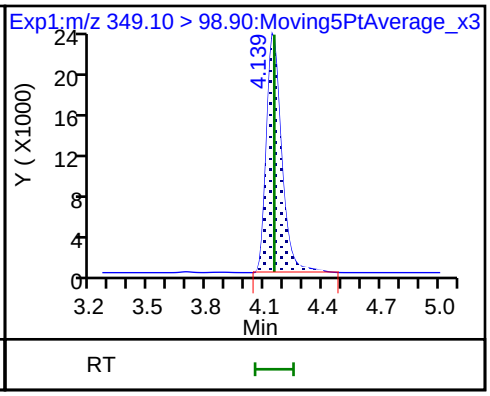
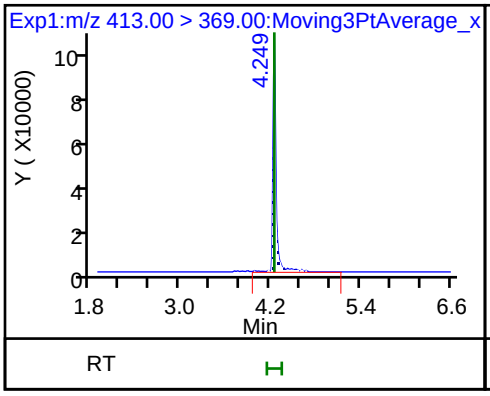


32 PFOA



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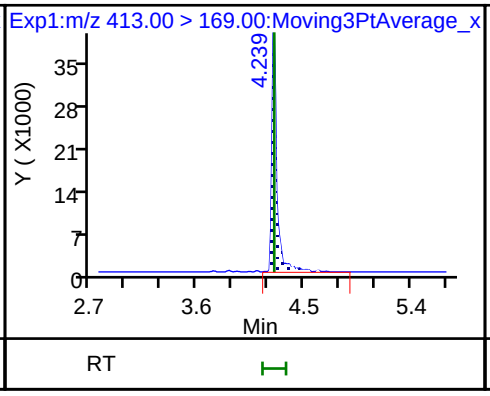

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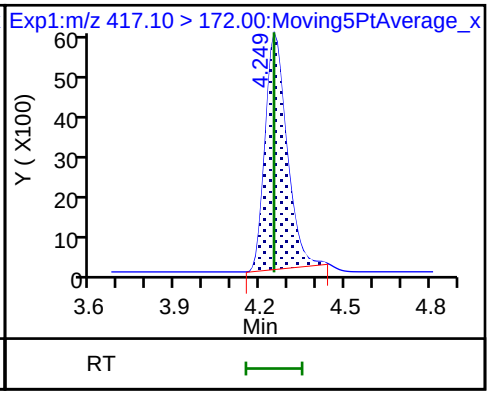

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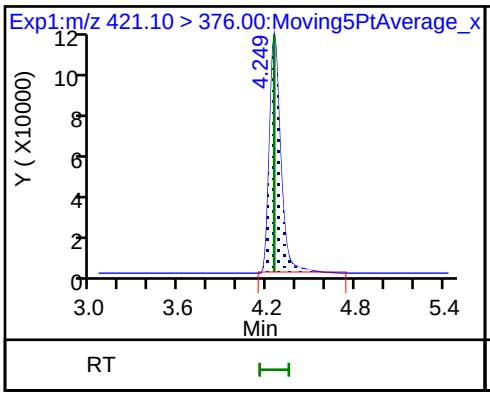

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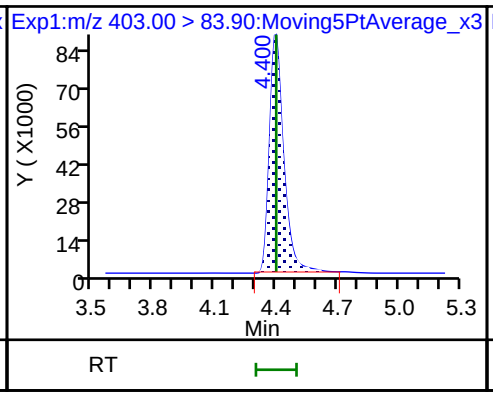

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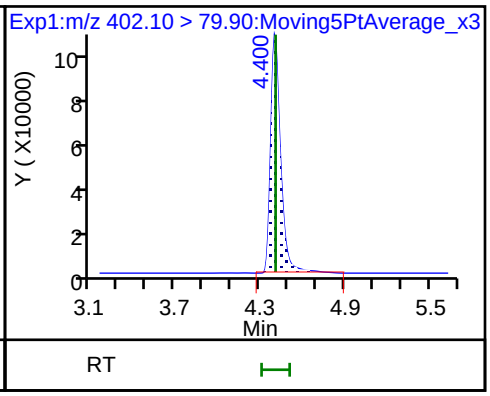

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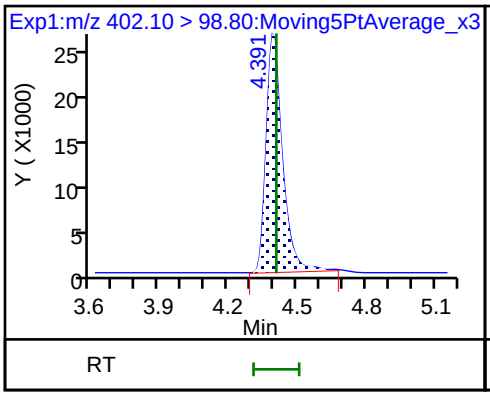

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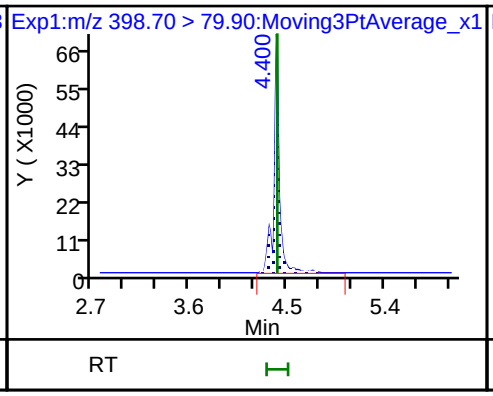

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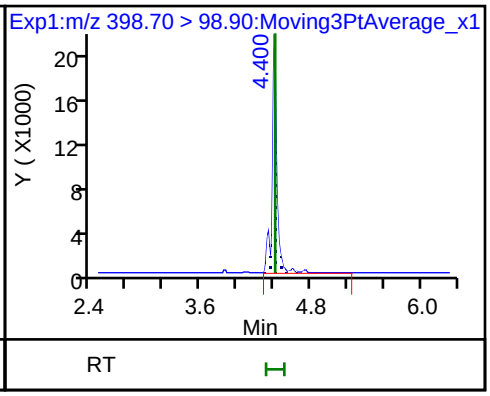
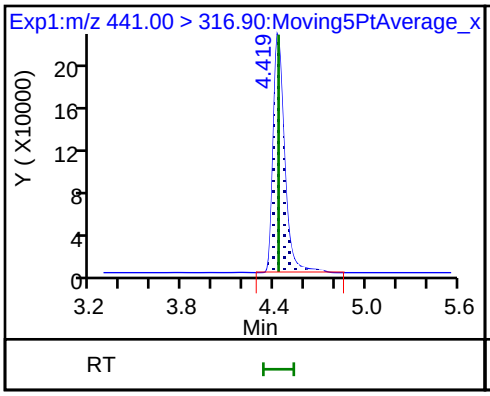
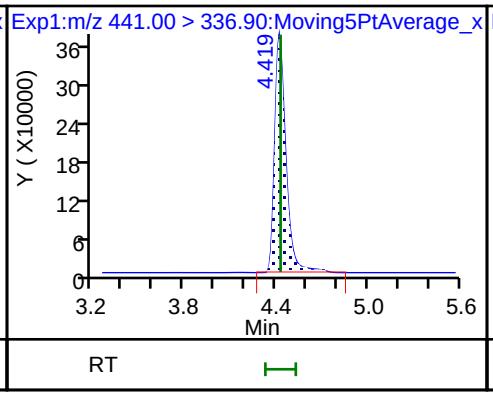


33 7:3 FTCA



33 7:3 FTCA



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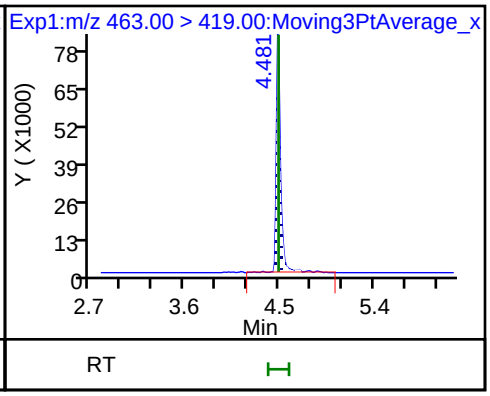

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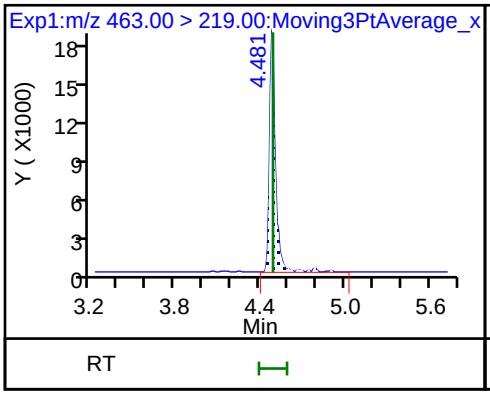

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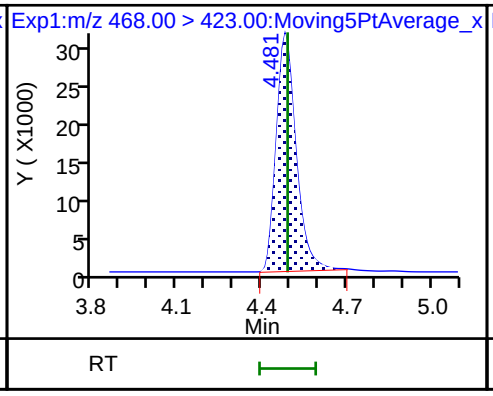

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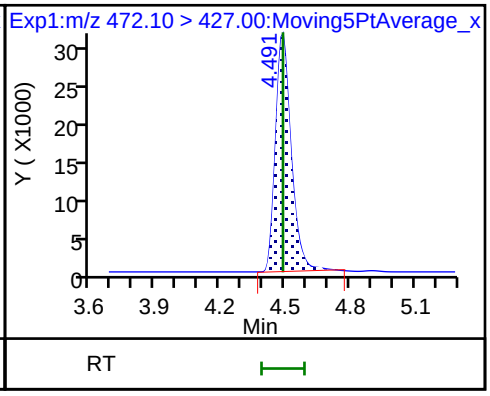

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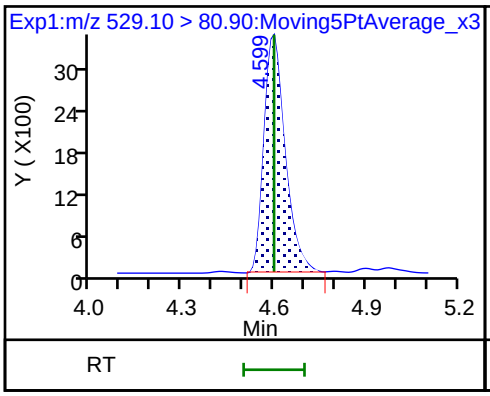

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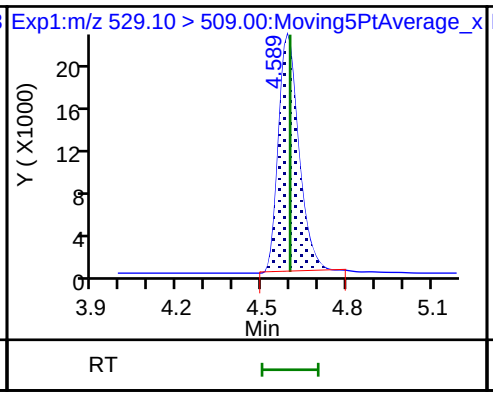

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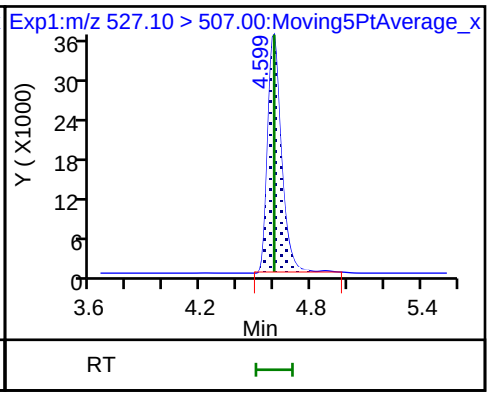

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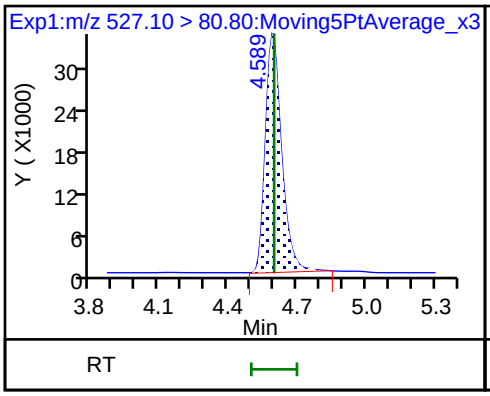

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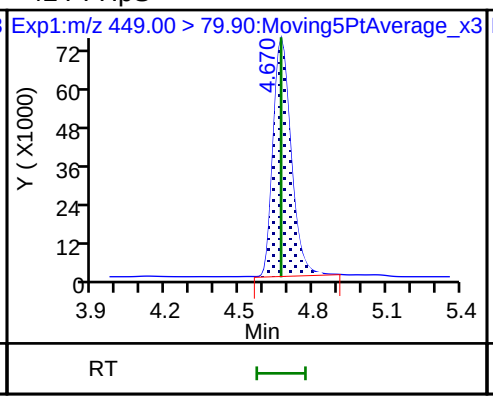

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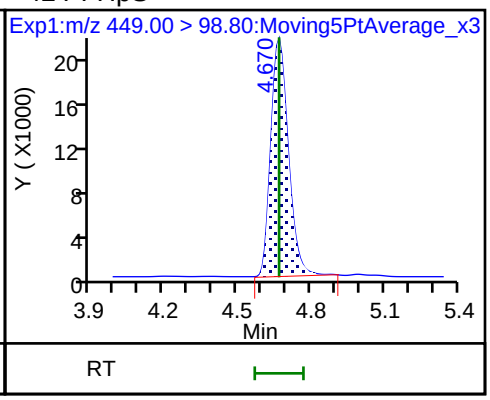
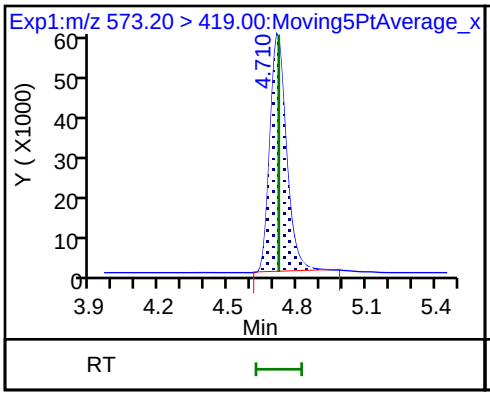


D 44 d3-NMeFOSAA



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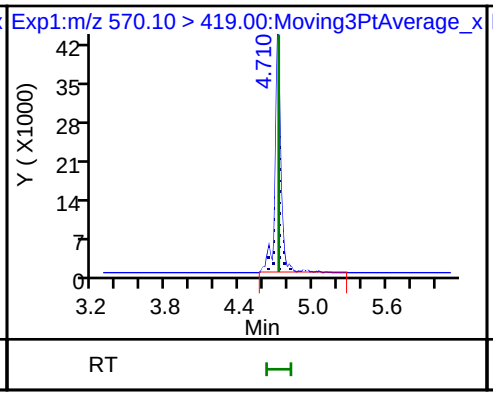

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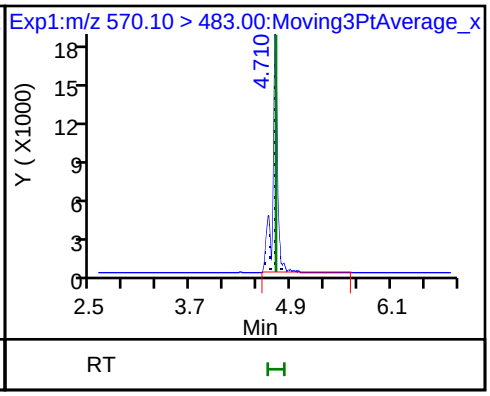

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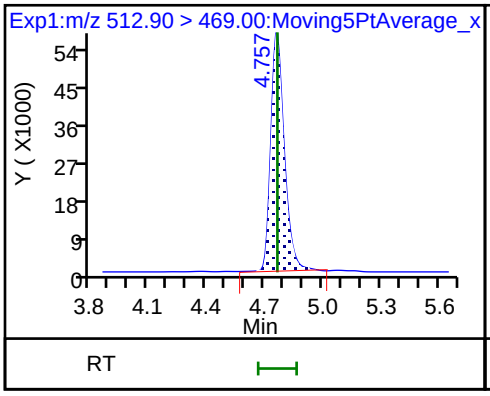

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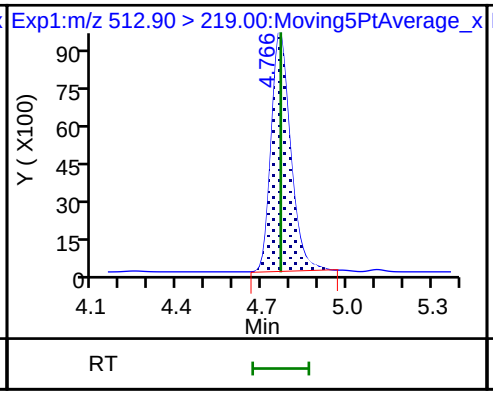

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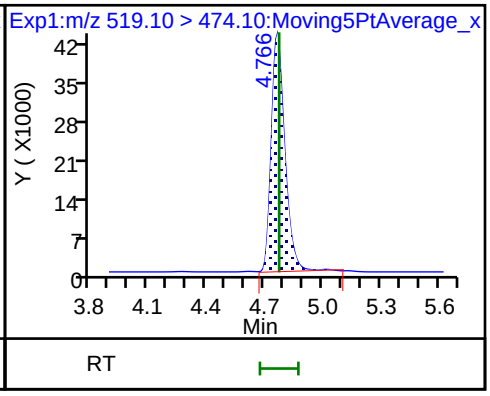

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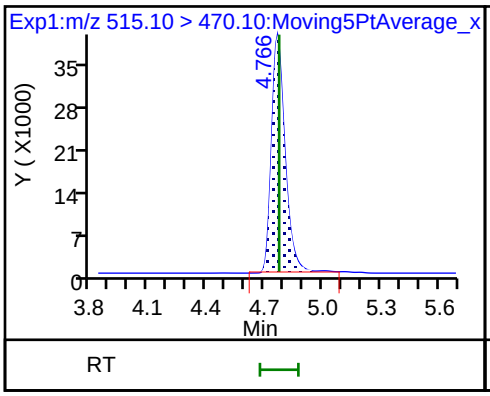

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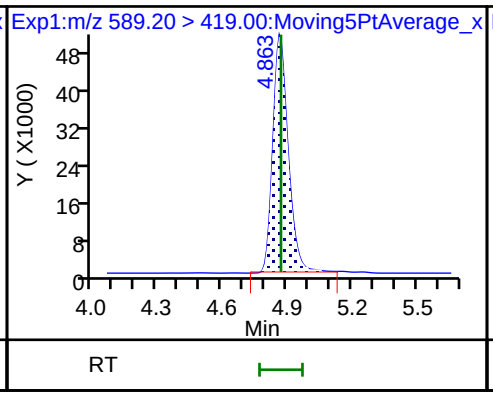

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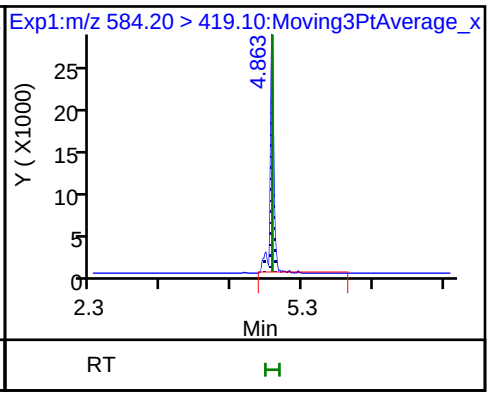

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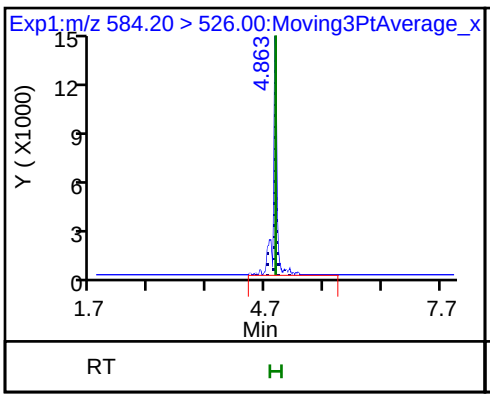

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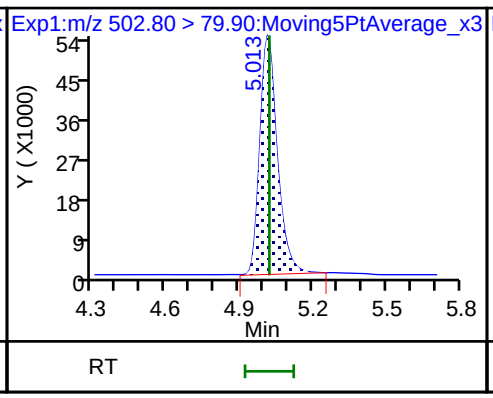

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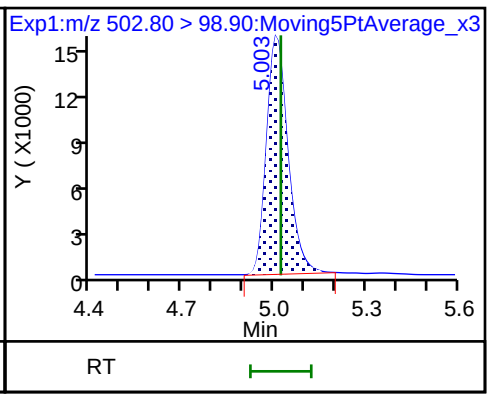

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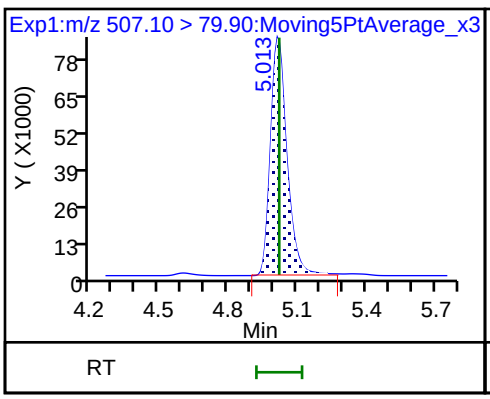

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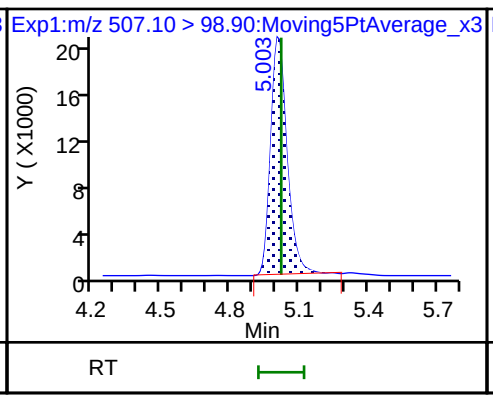

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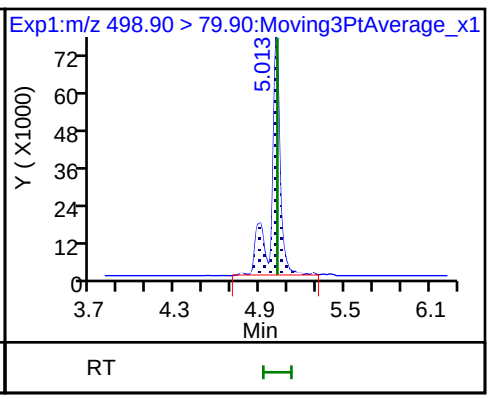

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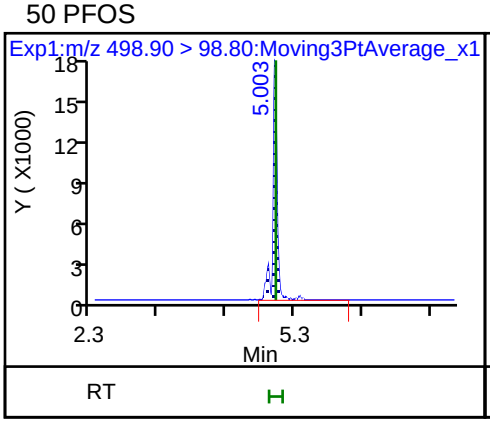

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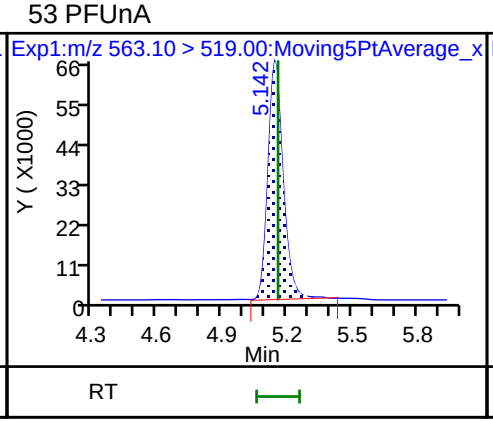

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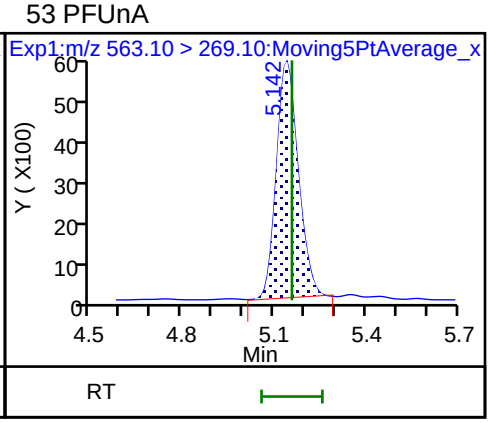

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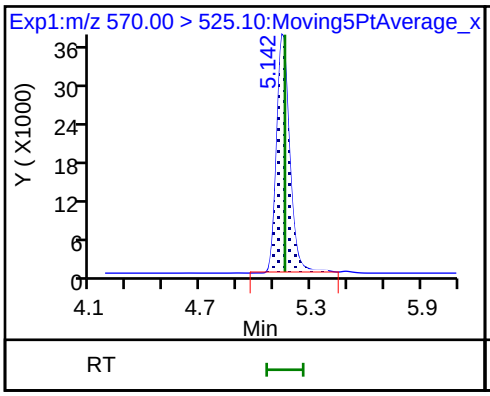

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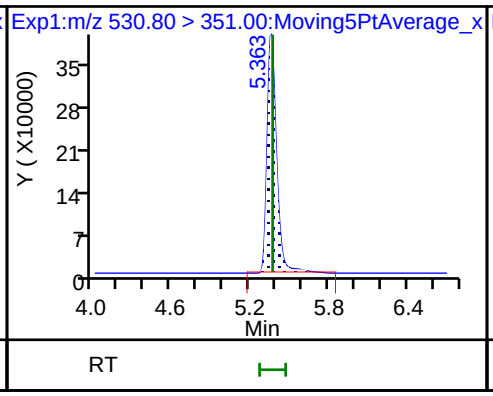

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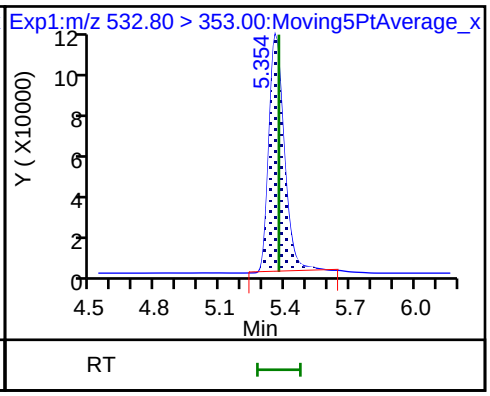

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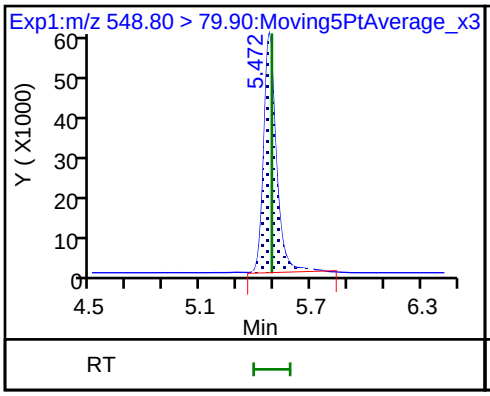

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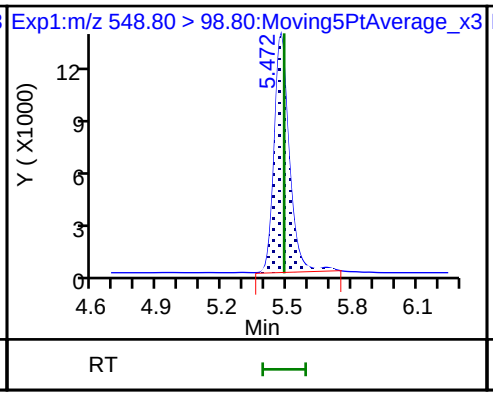

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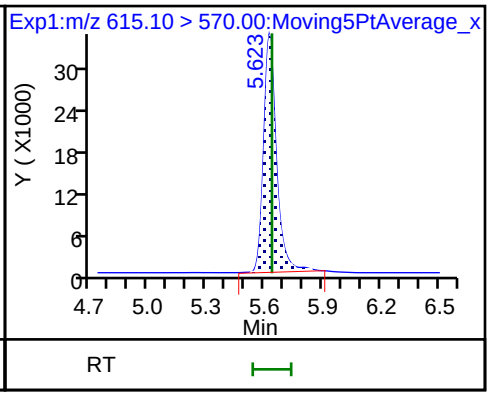

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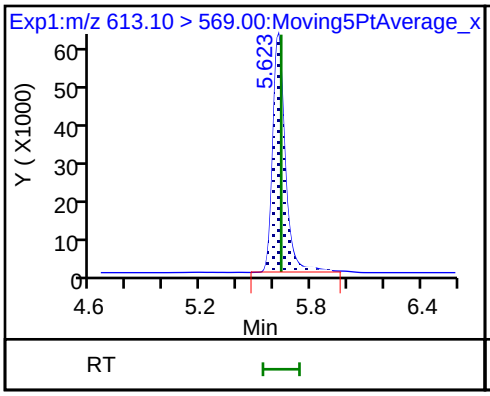

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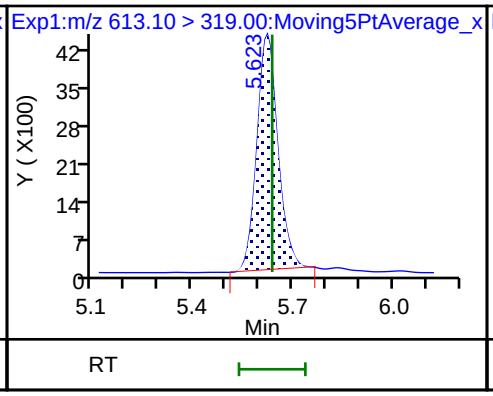

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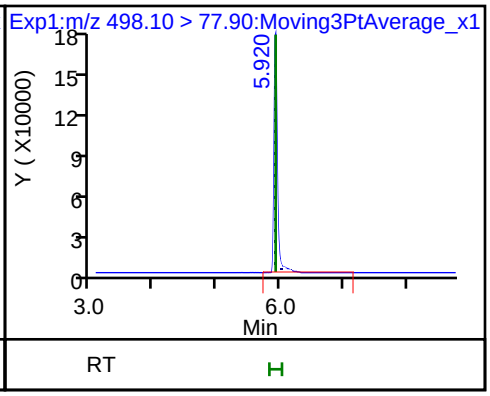

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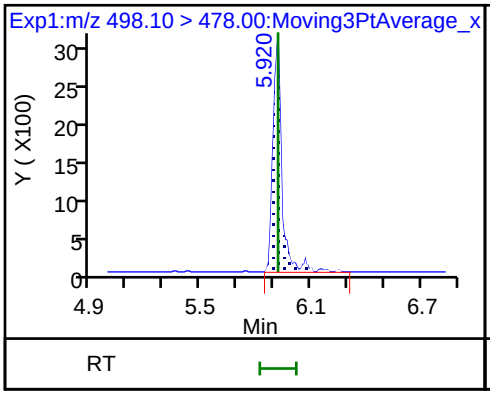

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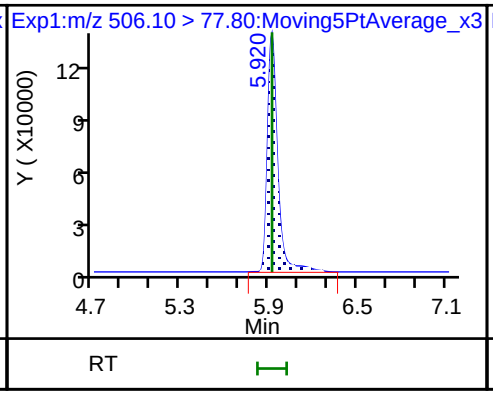

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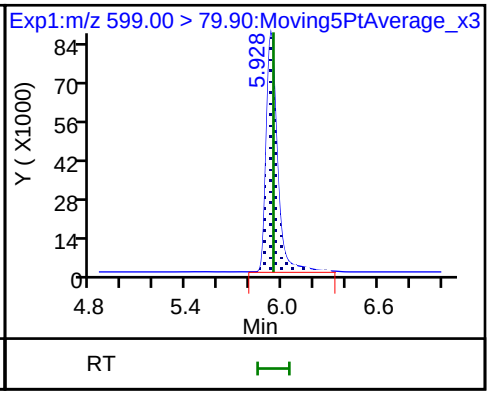

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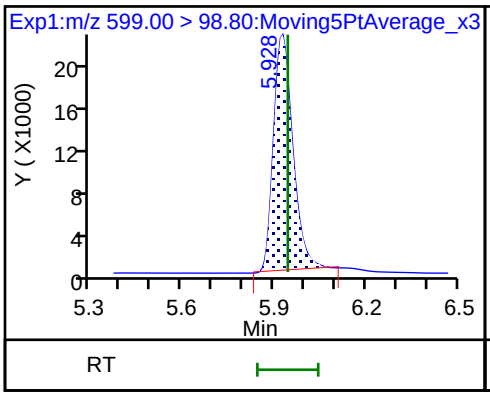

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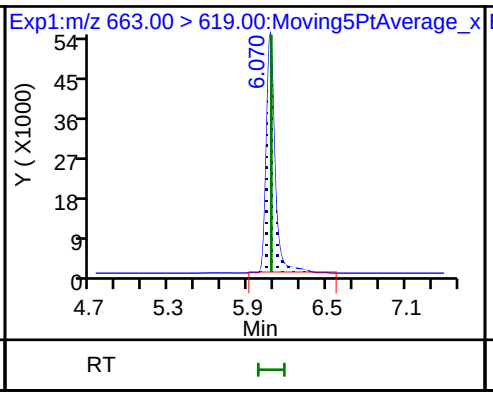

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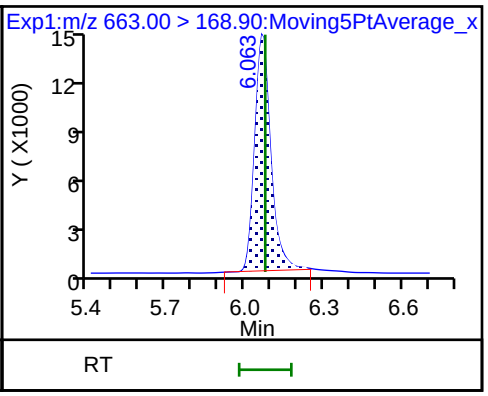

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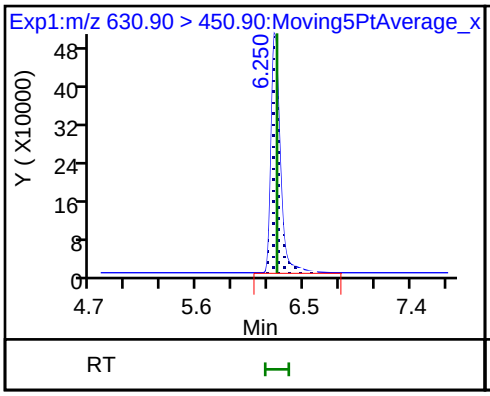

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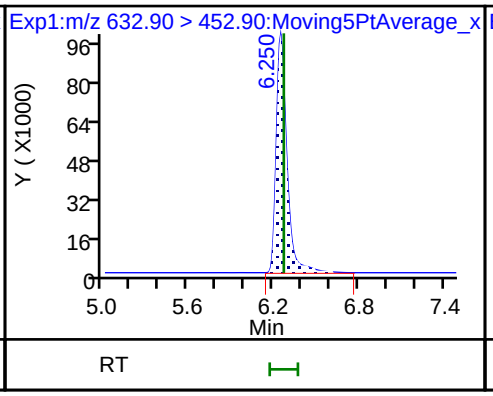

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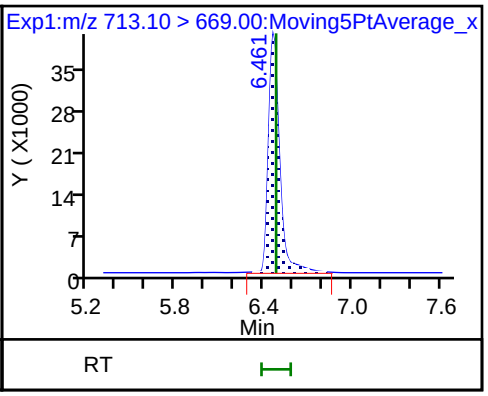

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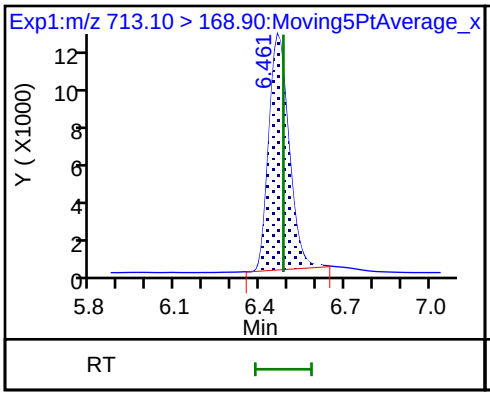

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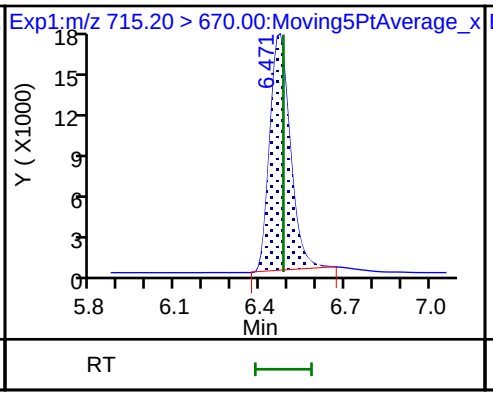

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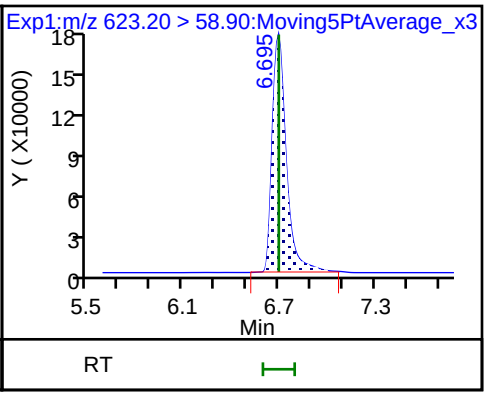

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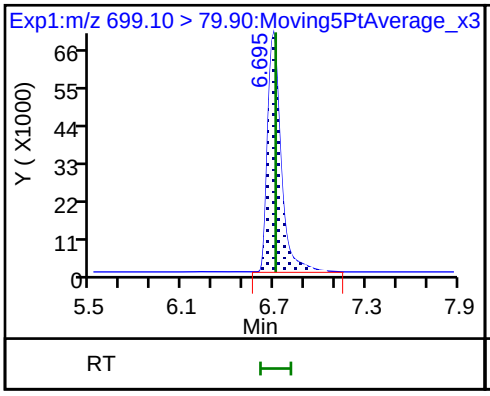

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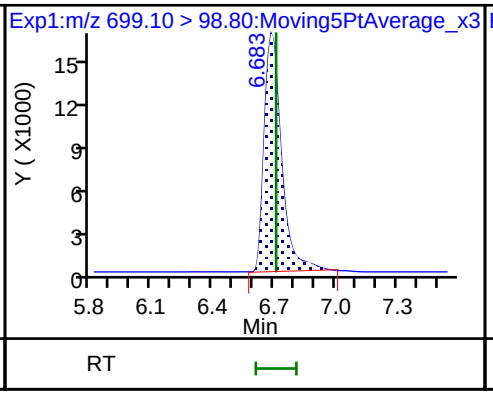
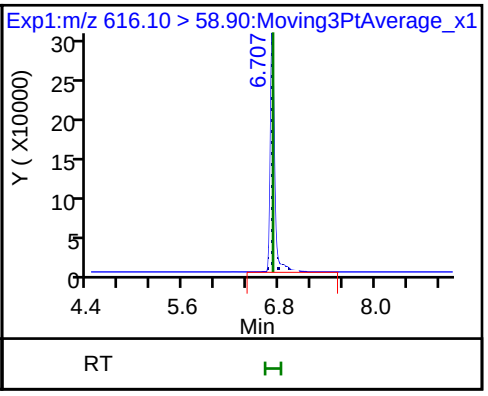
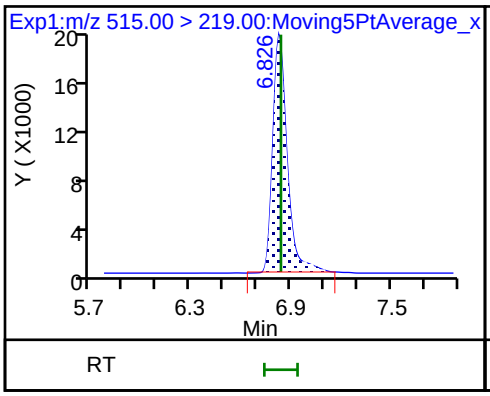


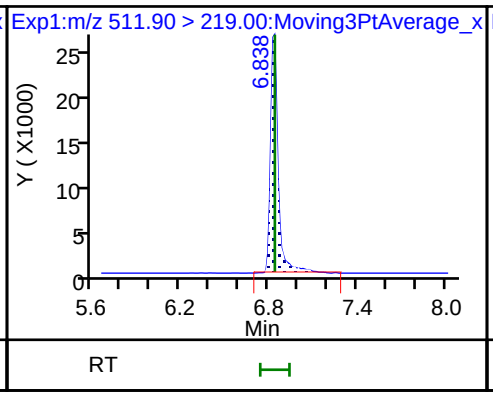
68 N-MeFOSE-M



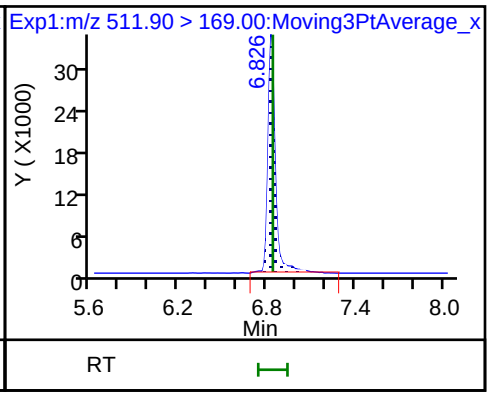
D 69 d3-NMePFOSA



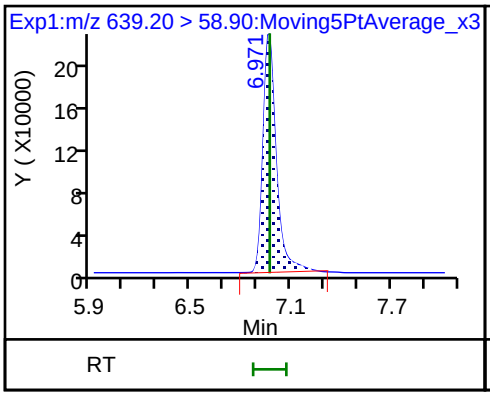
70 NMeFOSA



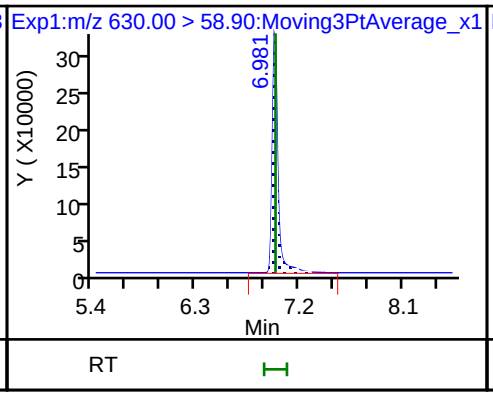
70 NMeFOSA



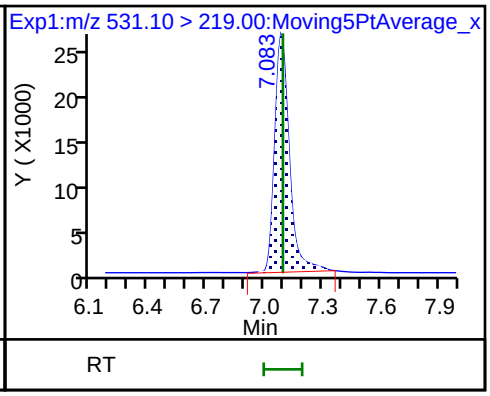
D 71 d9-N-EtFOSE



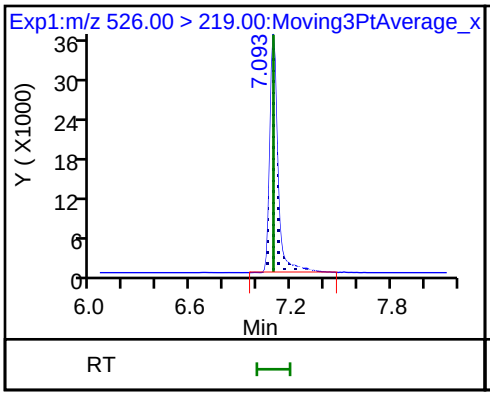
72 N-EtFOSE-M



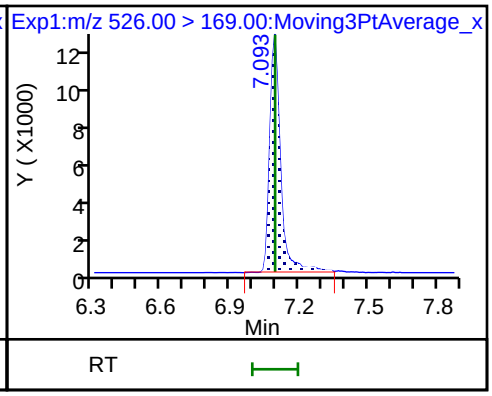
D 73 d5-NEtPFOSA



74 N-EtFOSA-M



74 N-EtFOSA-M



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

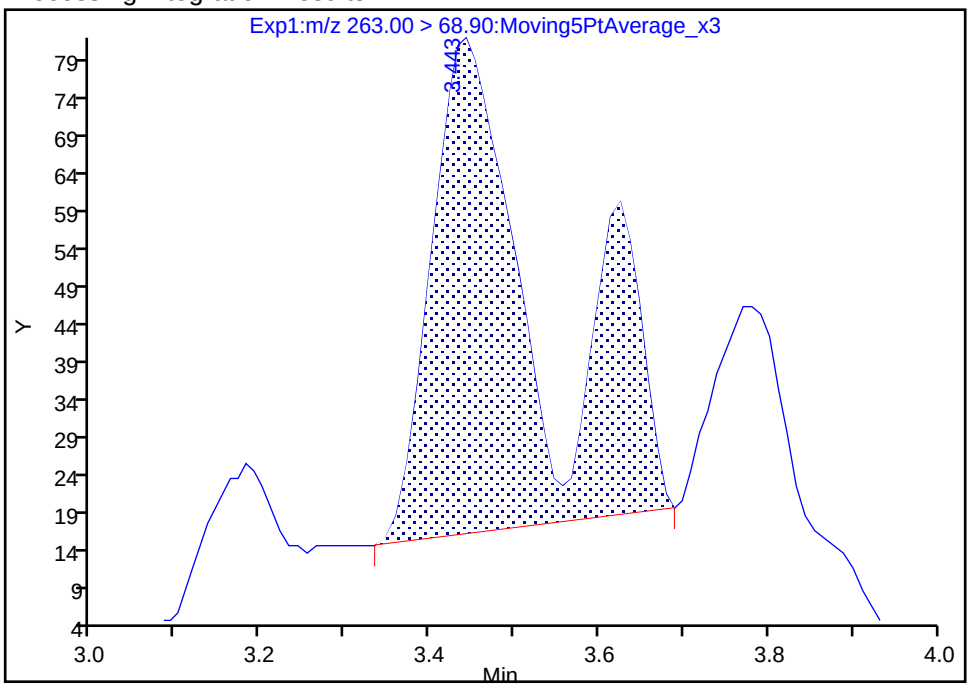
Data File:	\\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-12.d				
Injection Date:	05-Aug-2023 11:38:33	Instrument ID:	30729		
Lims ID:	ICV				
Client ID:					
Operator ID:	US19_USR_INS20263	ALS Bottle#:	20009	Worklist Smp#:	9
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

6 PFPA, CAS: 2706-90-3

Signal: 2

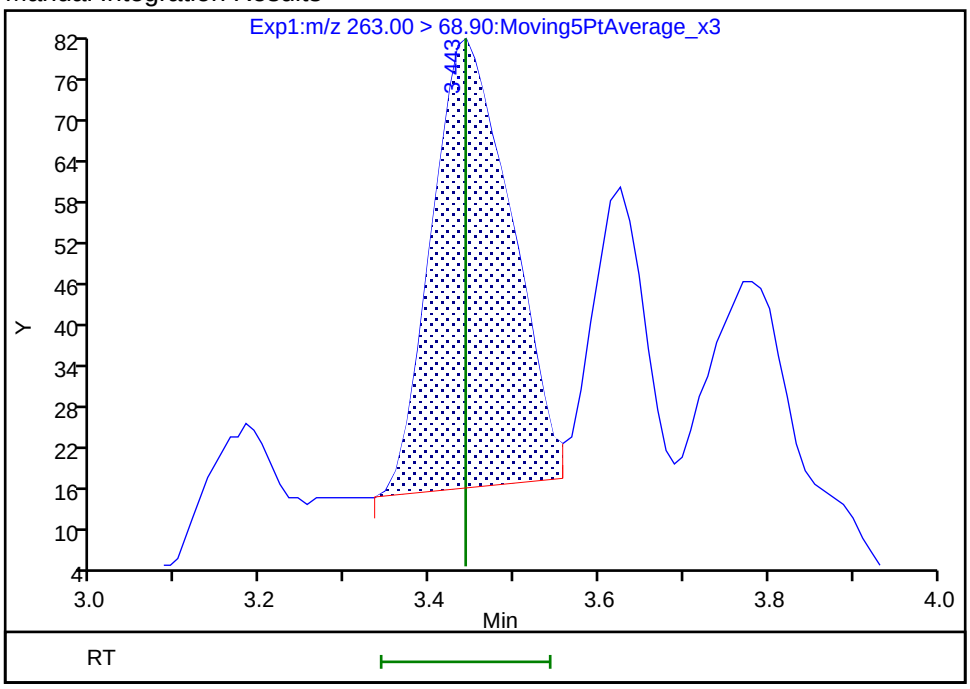
Processing Integration Results

RT: 3.44
Area: 601
Amount: 4.788681
Amount Units: ng/ml



Manual Integration Results

RT: 3.44
Area: 433
Amount: 4.788681
Amount Units: ng/ml



Reviewer: UCD3, 05-Aug-2023 11:57:22 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Split Peak

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 460-282979-1

SDG No.:

Lab Sample ID: CCVO 410-405691/1 Calibration Date: 08/08/2023 11:38

Instrument ID: 30729 Calib Start Date: 08/05/2023 09:27

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 08/05/2023 11:25

Lab File ID: 23AUG08-06.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid	AveID	0.8351	0.7544		0.723	0.800	-9.7	30.0
3:3 FTCA	AveID	0.0907	0.0798		0.880	1.00	-12.0	30.0
Perfluoro-3-methoxypropanoic acid	AveID	1.812	1.804		0.398	0.400	-0.4	30.0
Perfluoropentanoic acid	AveID	1.811	1.712		0.378	0.400	-5.4	30.0
Perfluoro(4-methoxybutanoic acid)	AveID	1.455	1.366		0.375	0.400	-6.1	30.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	2.677	2.003		0.561	0.750	-25.2	30.0
Perfluoro-3,6-dioxaheptanoic acid	AveID	0.7006	0.5696		0.325	0.400	-18.7	30.0
Perfluorohexanoic acid	AveID	5.431	5.156		0.190	0.200	-5.1	30.0
5:3 FTCA	AveID	1.607	1.608		5.00	5.00	0.0	30.0
Perfluorobutanesulfonic acid	AveID	0.6048	0.5838		0.171	0.177	-3.5	30.0
HFPO-DA	AveID	0.6844	0.5872		0.686	0.800	-14.2	30.0
PFEESA	AveID	28.68	24.60		0.305	0.356	-14.2	30.0
Perfluoroheptanoic acid	AveID	0.9439	0.7197		0.153	0.200	-23.7	30.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	1.933	1.943		0.760	0.756	0.5	30.0
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	AveID	4.563	4.750		0.791	0.760	4.1	30.0
Perfluoropentanesulfonic acid	AveID	0.9858	0.9131		0.174	0.188	-7.4	30.0
Perfluorooctanoic acid	AveID	0.4940	0.6321		0.256	0.200	28.0	30.0
Perfluorohexanesulfonic acid	AveID	0.5267	0.5575		0.193	0.183	5.9	30.0
7:3 FTCA	AveID	1.139	1.051		4.61	5.00	-7.8	30.0
Perfluorononanoic acid	AveID	0.8401	0.9781		0.233	0.200	16.4	30.0
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	AveID	5.615	4.751		0.650	0.768	-15.4	30.0
Perfluoroheptanesulfonic acid	AveID	1.010	0.8723		0.165	0.191	-13.7	30.0
NMeFOSAA	AveID	0.9373	0.9014		0.192	0.200	-3.8	30.0
Perfluorodecanoic acid	AveID	0.7111	0.6386		0.180	0.200	-10.2	30.0
NEtFOSAA	AveID	0.7481	0.6737		0.180	0.200	-9.9	30.0
Perfluorooctanesulfonic acid	AveID	0.9211	1.030		0.208	0.186	11.9	30.0
Perfluoroundecanoic acid	AveID	0.8846	0.8031		0.182	0.200	-9.2	30.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	1.782	1.687		0.708	0.748	-5.3	30.0
Perfluorononanesulfonic acid	AveID	0.6776	0.6325		0.180	0.192	-6.7	30.0
Perfluorododecanoic acid	AveID	0.9435	0.9388		0.199	0.200	-0.5	30.0
Perfluorooctanesulfonamide	AveID	1.032	0.9854		0.191	0.200	-4.5	30.0
Perfluorodecanesulfonic acid	AveID	1.066	0.996		0.180	0.193	-6.5	30.0
Perfluorotridecanoic acid	AveID	1.001	0.9905		0.198	0.200	-1.0	30.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	2.383	2.150		0.682	0.756	-9.8	30.0
Perfluorotetradecanoic acid	AveID	1.144	1.115		0.195	0.200	-2.5	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 460-282979-1

SDG No.:

Lab Sample ID: CCVO 410-405691/1 Calibration Date: 08/08/2023 11:38

Instrument ID: 30729 Calib Start Date: 08/05/2023 09:27

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 08/05/2023 11:25

Lab File ID: 23AUG08-06.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	AveID	1.112	1.095		1.97	2.00	-1.6	30.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	1.112	0.9620		0.168	0.194	-13.5	30.0
NMeFOSA	AveID	0.7946	0.8186		0.206	0.200	3.0	30.0
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	AveID	0.9402	0.8904		1.89	2.00	-5.3	30.0
N-ethylperfluoro-1-octanesulfonamide	AveID	0.9632	0.9555		0.198	0.200	-0.8	30.0
13C4 PFBA	Ave	0.8117	0.8146		10.0	10.0	0.4	30.0
13C5 PFPeA	Ave	0.7185	0.7738		5.39	5.00	7.7	30.0
M2-4:2 FTS	Ave	0.0734	0.0862		5.51	4.69	17.4	30.0
13C5 PFHxA	Ave	0.1748	0.1965		2.81	2.50	12.4	30.0
13C3 PFBS	Ave	1.037	1.012		2.27	2.33	-2.4	30.0
13C3 HFPO-DA	Ave	1.103	1.217		11.0	10.0	10.3	30.0
13C4 PFHpA	Ave	2.096	2.303		2.75	2.50	9.9	30.0
M2-6:2 FTS	Ave	0.0379	0.0350		4.38	4.76	-7.8	30.0
13C8 PFOA	Ave	23.77	23.89		2.51	2.50	0.5	30.0
13C3 PFHxS	Ave	1.127	1.083		2.28	2.37	-3.9	30.0
13C9 PFNA	Ave	1.056	0.9671		1.15	1.25	-8.4	30.0
M2-8:2 FTS	Ave	0.0202	0.0224		5.31	4.80	10.6	30.0
d3-NMeFOSAA	Ave	0.4974	0.5420		5.45	5.00	9.0	30.0
13C6 PFDA	Ave	1.009	0.9625		1.19	1.25	-4.6	30.0
d5-NEtFOSAA	Ave	0.4628	0.4744		5.13	5.00	2.5	30.0
13C8 PFOS	Ave	1.425	1.536		2.58	2.40	7.8	30.0
13C7 PFUnA	Ave	0.9271	0.9540		1.29	1.25	2.9	30.0
13C2-PFDoDA	Ave	0.8228	0.8678		1.32	1.25	5.5	30.0
13C8 FOSA	Ave	2.088	2.380		2.85	2.50	14.0	30.0
13C2 PFTeDA	Ave	0.4633	0.4745		1.28	1.25	2.4	30.0
d7-N-MeFOSE-M	Ave	0.3433	0.3520		25.6	25.0	2.5	30.0
d3-NMePFOSA	Ave	0.4096	0.3936		2.40	2.50	-3.9	30.0
d9-N-EtFOSE-M	Ave	0.4215	0.4323		25.6	25.0	2.6	30.0
d5-NEtPFOSA	Ave	0.4391	0.4446		2.53	2.50	1.3	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-06.d
Lims ID: CCVO 1_CAL1
Client ID:
Sample Type: CCVO
Inject. Date: 08-Aug-2023 11:38:00 ALS Bottle#: 20002 Worklist Smp#: 1
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCVO 1_CAL1
Misc. Info.: Plate: 1 Rack: 1 410-0090889-001
Operator ID: US19_USR_INS20263 Instrument ID: 30729
Sublist: chrom-PFAS_30729_1633*sub4

Method: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\PFAS_30729_1633.m
Limit Group: LC - 1633 ICAL
Last Update: 08-Aug-2023 14:05:37 Calib Date: 05-Aug-2023 11:25:28
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-11.d

Column 1 : Det: EXP1
Process Host: CTX1655

First Level Reviewer: QY4X Date: 08-Aug-2023 12:27:24
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4-PFBA										
216.80 > 171.90	2.942	2.942	0.0	1.000	1297257	10.0		100	77247	
* 3 13C3PFBA										
216.00 > 172.00	2.942	2.942	0.0		796230	5.00			2350	
1 PFBA										
212.80 > 168.90	2.942	2.942	0.0	1.000	78295	0.7227		90.3	471	
4 PFMPA										
229.00 > 84.90	3.167	3.167	0.0	0.919	51058	0.3982		99.6	3655	
5 3:3 FTCA										Ma
241.00 > 177.00	3.167	3.167	0.0	0.919	5645	0.8798	Target=1.11	88.0	396	a
241.00 > 117.00	3.167	3.167	0.0	0.919	5792		0.97(0.55-1.66)		189	M
D 7 13C5 PFPeA										
268.30 > 223.00	3.447	3.447	0.0	0.918	353792	5.39		108	22475	
6 PFPA										RMa
263.00 > 219.00	3.447	3.447	0.0	1.000	48464	0.3783	Target=1273.32	94.6	737	Ra
263.00 > 68.90	3.390	3.447	-0.057	0.983	311		155.83(636.66-1909.99)		15.3	M
8 PFMBA										
279.00 > 85.10	3.562	3.562	0.0	1.033	38656	0.3755		93.9	2388	
D 10 13C2-4:2FTS										
329.10 > 80.90	3.642	3.642	0.0	0.825	73224	5.51	Target=0.35	117	3487	
329.10 > 309.00	3.631	3.642	-0.011	0.823	160100		0.46(0.18-0.53)	117	9804	
9 4:2FTS										
327.10 > 307.00	3.642	3.642	0.0	1.000	23457	0.5611	Target=1.40	74.8	1531	
327.10 > 80.90	3.631	3.642	-0.011	0.997	15175		1.55(0.70-2.10)		795	
12 NFDHA										
295.00 > 201.00	3.734	3.734	0.0	0.994	4094	0.3252	Target=2.17	81.3	294	
295.00 > 84.90	3.723	3.734	-0.011	0.992	3080		1.33(1.08-3.25)		197	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 14 13C5 PFHxA										
318.00 > 273.00	3.755	3.755	0.0	1.000	44922	2.81	Target=15.34	112	2779	
318.00 > 120.30	3.755	3.755	0.0	1.000	3044		14.76(7.67-23.01)	112	202	
* 15 13C2 PFHxA										
315.10 > 270.00	3.755	3.755	0.0		228596	2.50	Target=103.53		14489	
315.10 > 119.40	3.755	3.755	0.0		2617		87.35(51.76-155.29)		152	
13 PFHxA										
313.00 > 269.00	3.755	3.755	0.0	1.000	18529	0.1899	Target=13.63	94.9	728	
313.00 > 118.90	3.755	3.755	0.0	1.000	2081		8.90(6.82-20.45)		118	
D 18 13C3 PFBS										
302.10 > 79.90	3.860	3.860	0.0	0.875	427144	2.27	Target=6.99	97.6	26360	
302.10 > 98.90	3.860	3.860	0.0	0.875	61009		7.00(3.50-10.49)	97.6	3840	
17 PFBS										
298.70 > 79.90	3.860	3.860	0.0	1.000	18986	0.1713	Target=3.41	96.5	880	
298.70 > 98.80	3.860	3.860	0.0	1.000	5249		3.62(1.70-5.11)		317	
16 5:3 FTCA										
341.00 > 237.10	3.860	3.860	0.0	1.028	144444	5.00	Target=2.68	100	8569	
341.00 > 217.00	3.849	3.860	-0.011	1.025	46522		3.10(1.34-4.01)		2932	
D 20 13C3 HFPO-DA										
286.90 > 168.90	3.872	3.872	0.0	1.031	1113219	11.0	Target=29.00	110	67092	
286.90 > 184.90	3.872	3.872	0.0	1.031	35893		31.01(14.50-43.50)	110	2388	
19 HFPO-DA										
284.90 > 168.90	3.872	3.872	0.0	1.000	52291	0.6863	Target=17.67	85.8	169	
284.90 > 184.90	3.872	3.872	0.0	1.000	2388		21.90(8.84-26.51)		160	
23 PFEESA										
314.80 > 134.90	4.012	4.012	0.0	1.068	157380	0.3053	Target=14.15	85.8	7361	
314.80 > 82.90	4.012	4.012	0.0	1.068	12444		12.65(7.08-21.23)		376	
D 25 13C4 PFHpA										
367.10 > 322.00	4.022	4.022	0.0	1.071	526424	2.75		110	32569	
24 PFHpA										
363.10 > 319.00	4.022	4.022	0.0	1.000	30311	0.1525	Target=3.62	76.3	931	
363.10 > 169.00	4.012	4.022	-0.010	0.997	10126		2.99(1.81-5.44)		665	
26 ADONA										
376.90 > 250.90	4.111	4.111	0.0	1.062	163480	0.7597	Target=12.84	100	7300	
376.90 > 84.80	4.111	4.111	0.0	1.062	12609		12.97(6.42-19.27)		701	
D 29 13C2-6:2FTS										
429.10 > 80.90	4.132	4.132	0.0	0.936	30094	4.38	Target=0.12	92.2	1884	
429.10 > 409.00	4.122	4.132	-0.010	0.934	184815		0.16(0.06-0.18)	92.2	11589	
27 6:2FTS										
427.10 > 407.00	4.132	4.132	0.0	1.000	22846	0.7911	Target=1.71	104	1364	
427.10 > 80.90	4.122	4.132	-0.010	0.997	13523		1.69(0.85-2.56)		883	
28 PFPeS										
349.10 > 79.90	4.155	4.155	0.0	0.941	33697	0.1743	Target=3.85	92.6	1920	
349.10 > 98.90	4.155	4.155	0.0	0.941	9241		3.65(1.93-5.78)		589	
32 PFOA										RM
413.00 > 369.00	4.253	4.253	0.0	0.998	29383	0.2559	Target=2.36	128	20.2	RM
413.00 > 169.00	4.253	4.253	0.0	0.998	7776		3.78(1.18-3.53)		19.1	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 30 13C4 PFOA										
417.10 > 172.00	4.263	4.263	0.0		24321	2.50			1594	
D 31 13C8 PFOA										
421.10 > 376.00	4.263	4.263	0.0	1.000	581042	2.51		101	36868	
* 35 18O2 PFHxS										
403.00 > 83.90	4.413	4.413	0.0		429136	2.37			28996	
D 36 13C3 PFHxS										
402.10 > 79.90	4.413	4.413	0.0	1.000	464733	2.28	Target=3.90	96.1	30272	
402.10 > 98.80	4.404	4.413	-0.009	0.998	113080		4.11(1.95-5.85)	96.1	5890	
34 PFHxS										
398.70 > 79.90	4.413	4.413	0.0	1.000	19985	0.1935	Target=3.39	106	88.7	
398.70 > 98.90	4.413	4.413	0.0	1.000	5839		3.42(1.69-5.08)		29.1	
33 7:3 FTCA										
441.00 > 316.90	4.434	4.434	0.0	1.181	94411	4.61	Target=0.66	92.2	6472	
441.00 > 336.90	4.434	4.434	0.0	1.181	143365		0.66(0.33-1.00)		8997	
D 38 13C9 PFNA										
472.10 > 427.00	4.505	4.505	0.0	1.002	131018	1.14		91.6	8822	
* 37 13C5 PFNA										
468.00 > 423.00	4.495	4.495	0.0		135480	1.25			9396	
39 PFNA										
463.00 > 419.00	4.495	4.495	0.0	0.998	20504	0.2329	Target=5.25	116	40.1	
463.00 > 219.00	4.495	4.495	0.0	0.998	4988		4.11(2.63-7.88)		26.1	
D 41 13C2-8:2FTS										
529.10 > 80.90	4.614	4.614	0.0	1.045	19465	5.31	Target=0.14	111	1319	
529.10 > 509.00	4.604	4.614	-0.010	1.043	109140		0.18(0.07-0.21)	111	7501	
40 8:2FTS										
527.10 > 507.00	4.614	4.614	0.0	1.000	14796	0.6498	Target=1.21	84.6	975	
527.10 > 80.80	4.604	4.614	-0.010	0.998	13234		1.12(0.60-1.81)		858	
42 PFHpS										
449.00 > 79.90	4.685	4.685	0.0	0.929	27271	0.1646	Target=3.73	86.3	1758	
449.00 > 98.80	4.685	4.685	0.0	0.929	8504		3.21(1.86-5.59)		577	
D 44 d3-NMeFOSAA										
573.20 > 419.00	4.725	4.725	0.0	0.937	289457	5.45		109	14595	
43 NMeFOSAA										
570.10 > 419.00	4.725	4.725	0.0	1.000	10437	0.1924	Target=1.77	96.2	63.5	
570.10 > 483.00	4.725	4.725	0.0	1.000	5738		1.82(0.89-2.66)		9.5	
* 46 13C2 PFDA										
515.10 > 470.10	4.791	4.791	0.0		176375	1.25			8903	
D 47 13C6 PFDA										
519.10 > 474.10	4.791	4.791	0.0	1.000	169768	1.19		95.4	8647	
45 PFDA										
512.90 > 469.00	4.781	4.781	0.0	0.998	17346	0.1796	Target=6.01	89.8	883	
512.90 > 219.00	4.781	4.781	0.0	0.998	3233		5.37(3.00-9.01)		253	
D 49 d5-NEtFOSAA										
589.20 > 419.00	4.886	4.886	0.0	0.969	253371	5.13		103	12782	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
48 NEtFOSAA										
584.20 > 419.10	4.886	4.886	0.0	1.000	6828	0.1801	Target=1.68	90.1	15.8	
584.20 > 526.00	4.886	4.886	0.0	1.000	5378		1.27(0.84-2.53)		13.7	
* 52 13C4 PFOS										
502.80 > 79.90	5.044	5.044	0.0		255819	2.40	Target=4.18		10036	
502.80 > 98.90	5.035	5.044	-0.009		76011		3.37(2.09-6.27)		5141	
D 51 13C8 PFOS										
507.10 > 79.90	5.044	5.044	0.0	1.000	392825	2.58	Target=3.96	108	13181	
507.10 > 98.90	5.035	5.044	-0.009	0.998	91920		4.27(1.98-5.94)	108	4808	
50 PFOS										
498.90 > 79.90	5.044	5.044	0.0	1.000	31369	0.2076	Target=4.55	112	236	
498.90 > 98.80	5.044	5.044	0.0	1.000	6099		5.14(2.28-6.83)		21.1	
D 54 13C7 PFUnA										
570.00 > 525.10	5.180	5.180	0.0	1.081	168262	1.29		103	8716	
53 PFUnA										
563.10 > 519.00	5.180	5.180	0.0	1.000	21621	0.1816	Target=11.29	90.8	1449	
563.10 > 269.10	5.180	5.180	0.0	1.000	2127		10.17(5.64-16.93)		139	
55 9ClFOS										
530.80 > 351.00	5.404	5.404	0.0	1.396	140488	0.7084	Target=3.20	94.7	9388	
532.80 > 353.00	5.395	5.404	-0.009	1.394	40781		3.44(1.60-4.81)		2080	
56 PFNS										
548.80 > 79.90	5.506	5.506	0.0	1.092	19960	0.1796	Target=4.70	93.3	1462	
548.80 > 98.80	5.506	5.506	0.0	1.092	4350		4.59(2.35-7.05)		324	
D 58 PFDoDA										
615.10 > 570.00	5.661	5.661	0.0	1.182	153060	1.32		105	8839	
57 PFDoA										
613.10 > 569.00	5.654	5.654	0.0	0.999	22991	0.1990	Target=16.23	99.5	1262	
613.10 > 319.00	5.654	5.654	0.0	0.999	1352		17.01(8.12-24.35)		105	
60 PFOSA										
498.10 > 77.90	5.916	5.916	0.0	1.000	50092	0.1910	Target=58.34	95.5	862	
498.10 > 478.00	5.924	5.916	0.008	1.001	1100		45.54(29.17-87.51)		26.2	
D 59 13C8 FOSA										
506.10 > 77.80	5.916	5.916	0.0	1.173	635434	2.85		114	43390	
61 PFDS										
599.00 > 79.90	5.965	5.965	0.0	1.183	31536	0.1804	Target=4.36	93.5	2293	
599.00 > 98.80	5.965	5.965	0.0	1.183	7009		4.50(2.18-6.54)		524	
62 PFTrDA										
663.00 > 619.00	6.099	6.099	0.0	0.939	18760	0.1980	Target=3.59	99.0	1477	
663.00 > 168.90	6.099	6.099	0.0	0.939	5136		3.65(1.79-5.38)		367	
63 11ClFOS										
630.90 > 450.90	6.288	6.288	0.0	1.624	180951	0.6822	Target=5.30	90.2	11174	
632.90 > 452.90	6.288	6.288	0.0	1.624	33303		5.43(2.65-7.95)		2214	
D 65 13C2 PFTeDA										
715.20 > 670.00	6.498	6.498	0.0	1.356	83687	1.28		102	5584	
64 PFTeDA										
713.10 > 669.00	6.498	6.498	0.0	1.000	14931	0.1950	Target=3.31	97.5	1023	
713.10 > 168.90	6.498	6.498	0.0	1.000	4811		3.10(1.66-4.97)		327	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 67 d7-N-Me-FOSE										
623.20 > 58.90	6.693	6.693	0.0	1.327	940053	25.6		103	38393	
68 N-MeFOSE-M										
616.10 > 58.90	6.705	6.705	0.0	1.002	82326	1.97		98.4	892	
66 PFDoS										
699.10 > 79.90	6.729	6.729	0.0	1.334	30611	0.1679	Target=4.96	86.5	1760	
699.10 > 98.80	6.729	6.729	0.0	1.334	5832		5.25(2.48-7.44)		336	
D 69 d3-NMePFOSA										
515.00 > 219.00	6.824	6.824	0.0	1.353	105099	2.40		96.1	5859	
70 NMeFOSA										
511.90 > 219.00	6.836	6.836	0.0	1.002	6883	0.2060	Target=0.78	103	104	
511.90 > 169.00	6.824	6.836	-0.012	1.000	7643		0.90(0.39-1.17)		111	
D 71 d9-N-EtFOSE										
639.20 > 58.90	6.959	6.959	0.0	1.380	1154260	25.6		103	35211	
72 N-EtFOSE-M										
630.00 > 58.90	6.979	6.979	0.0	1.003	82224	1.89		94.7	564	
D 73 d5-NEtPFOSA										
531.10 > 219.00	7.081	7.081	0.0	1.404	118716	2.53		101	5690	
74 N-EtFOSA-M										
526.00 > 219.00	7.091	7.091	0.0	1.001	9075	0.1984	Target=3.00	99.2	209	
526.00 > 169.00	7.091	7.091	0.0	1.001	2765		3.28(1.50-4.50)		95.0	

QC Flag Legend

Processing Flags
R - Failed Signal Ratio Test
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

PFC_STD1_1633_00008 Amount Added: 1.00 Units: mL

Report Date: 08-Aug-2023 14:05:44 Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-06.d

Injection Date: 08-Aug-2023 11:38:00 Instrument ID: 30729

Lims ID: CCVO 1_CAL1

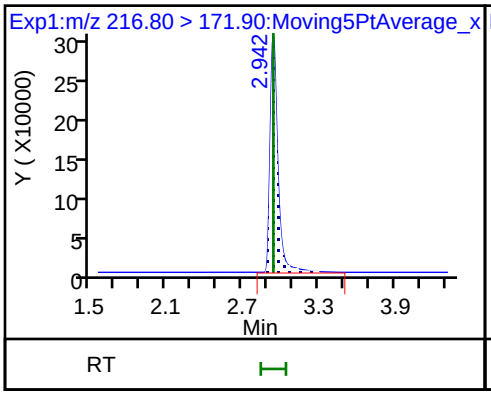
Client ID:

Operator ID: US19_USR_INS20263 ALS Bottle#: 20002 Worklist Smp#: 1

Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: PFAS_30729_1633 Limit Group: LC - 1633 ICAL

D 2 13C4-PFBA



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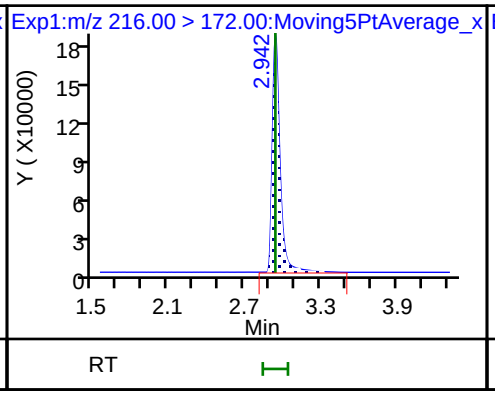

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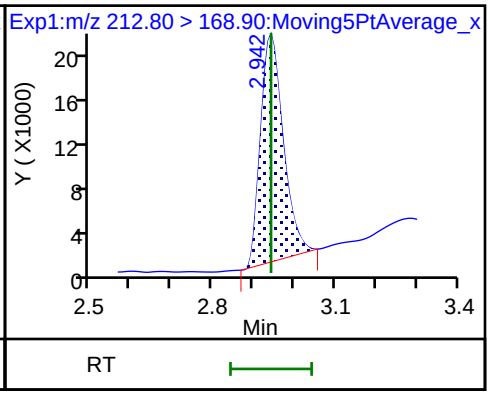

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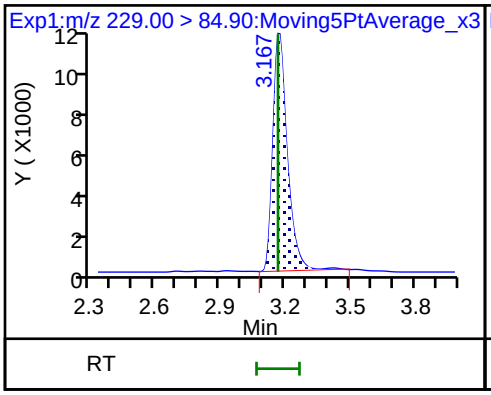
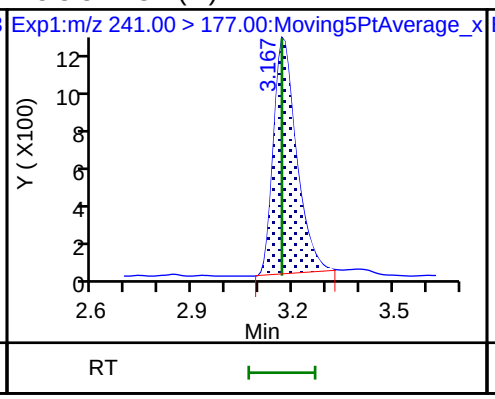


5 3:3 FTCA (M)



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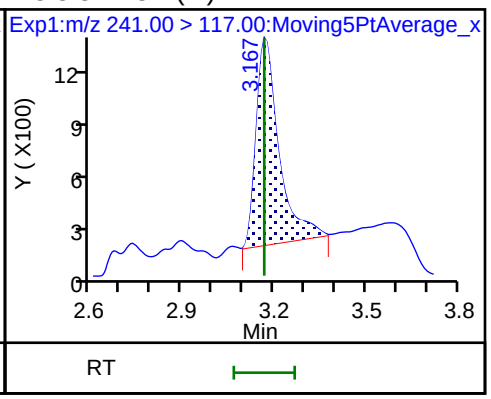
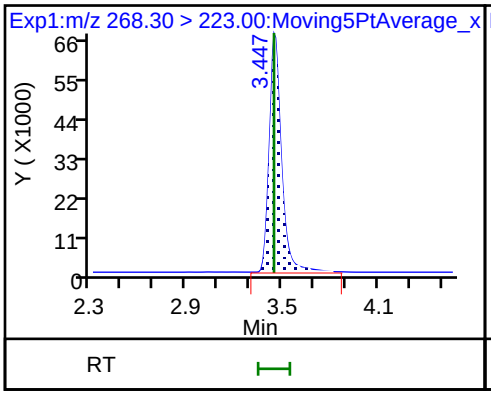


D 7 13C5 PFPeA



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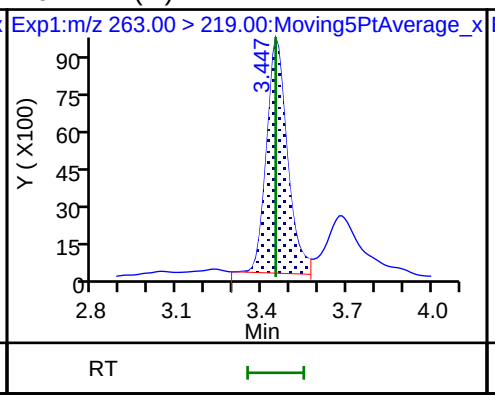

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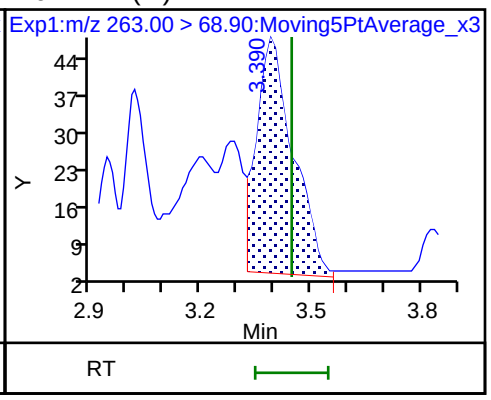
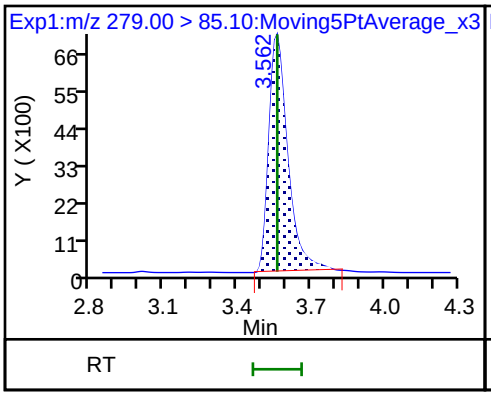
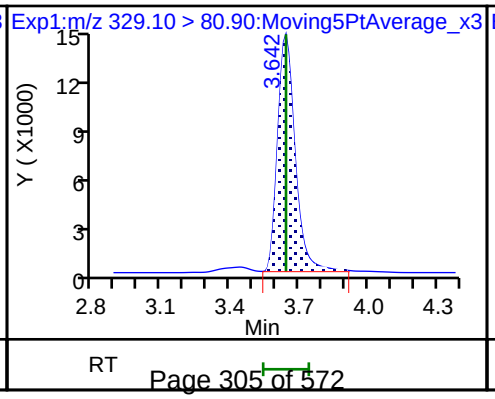


8 PFMBA



D 10 13C2-4:2FTS



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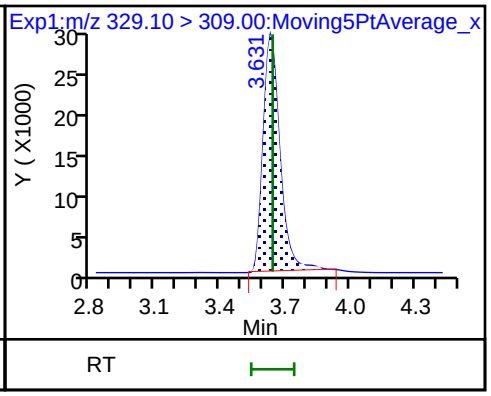

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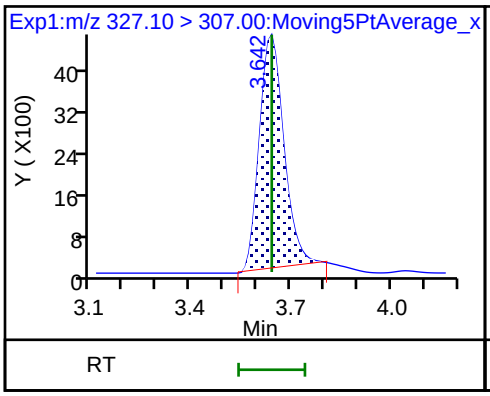

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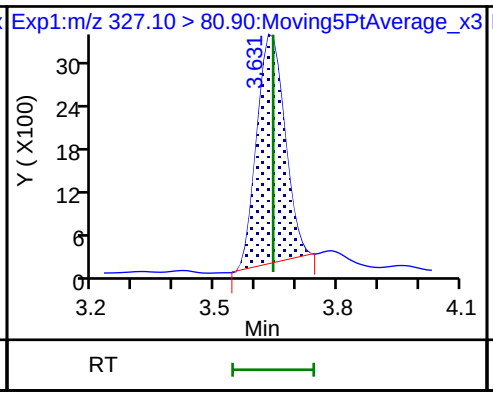

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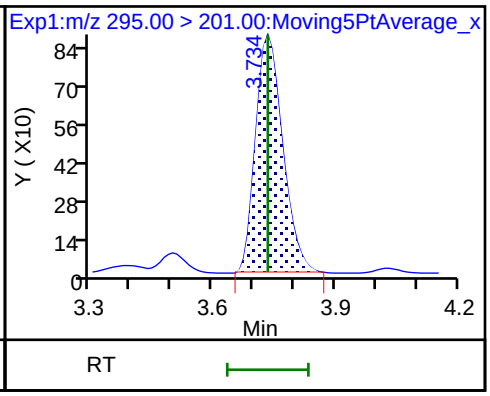
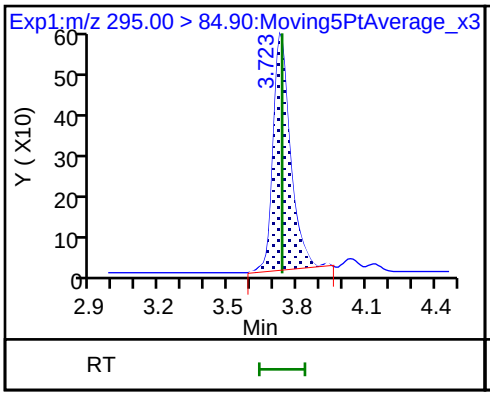


12 NFDHA



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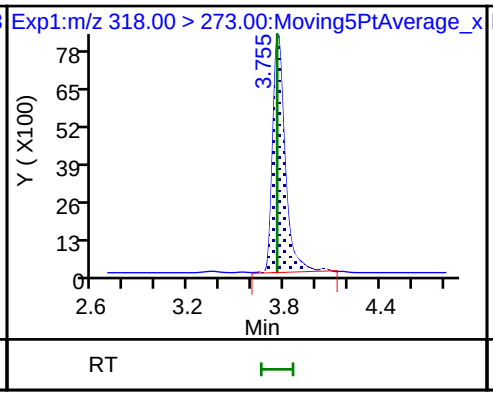

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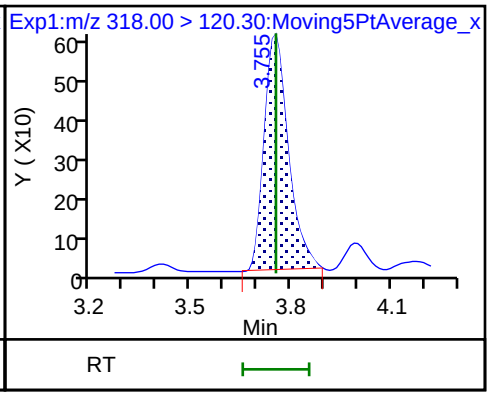

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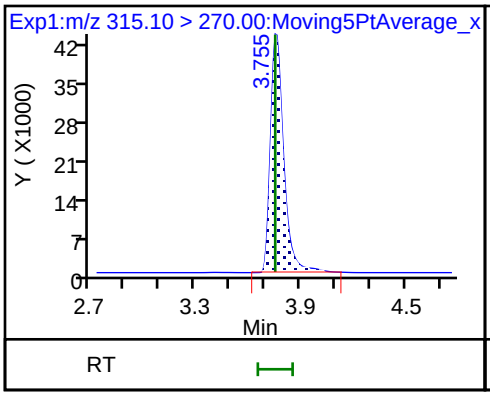

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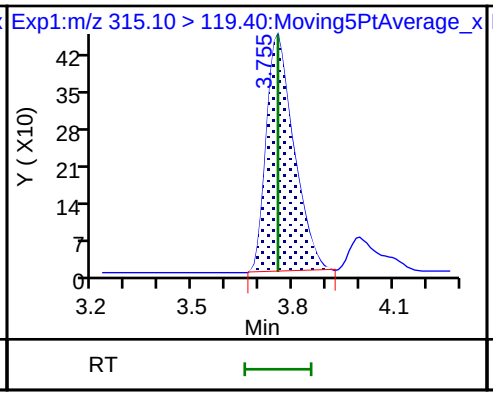
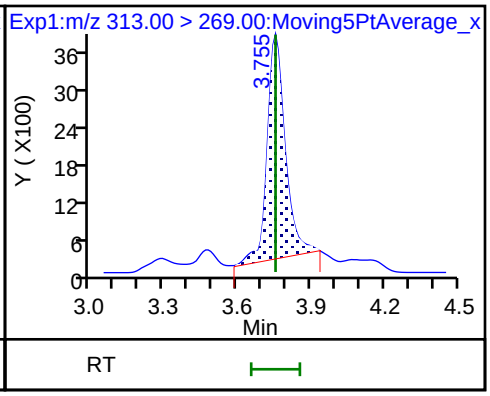
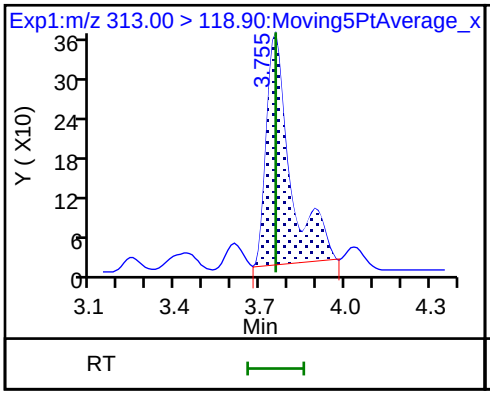


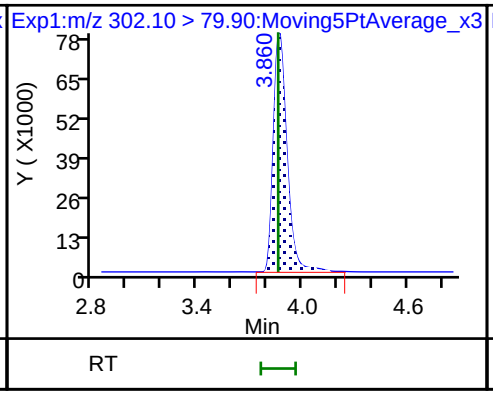
13 PFHxA



13 PFHxA



D 18 13C3 PFBS



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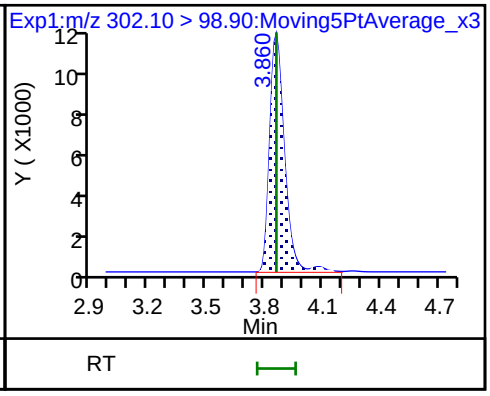

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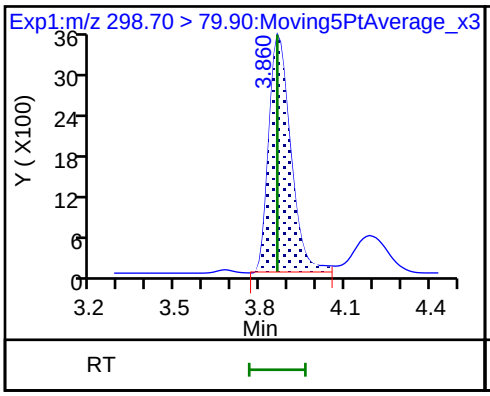

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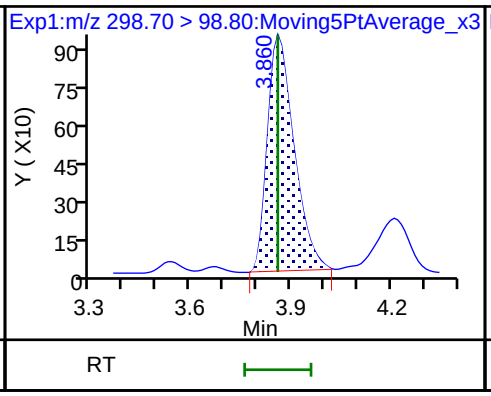

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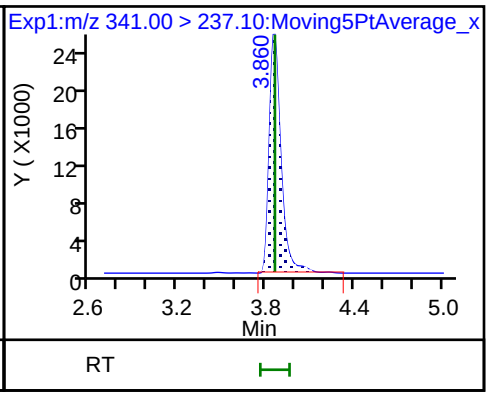
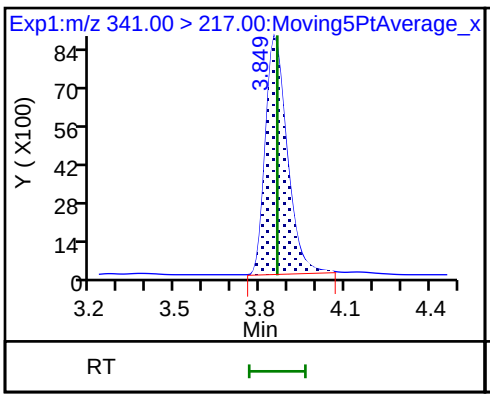
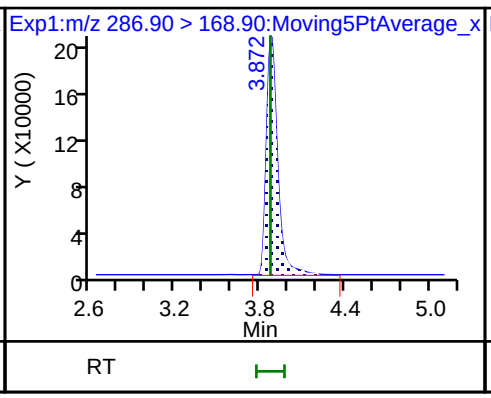


16 5:3 FTCA



D 20 13C3 HFPO-DA



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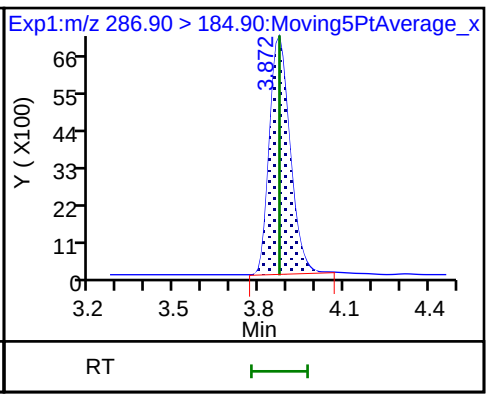
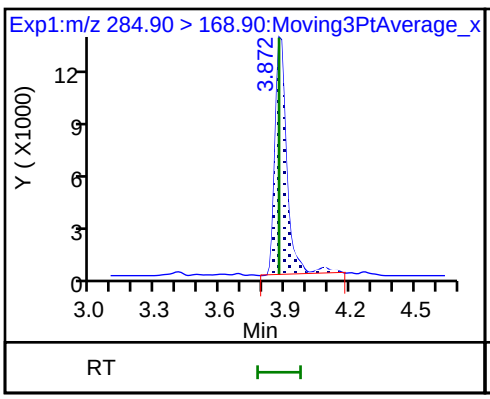


19 HFPO-DA



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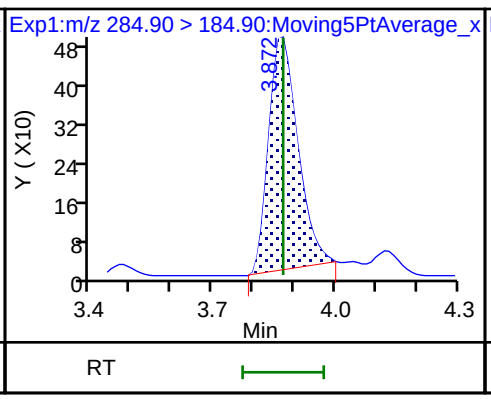
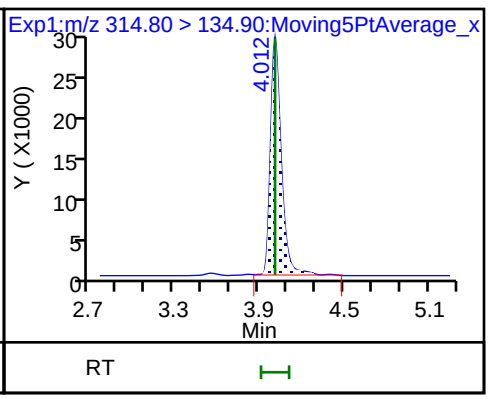


23 PFEESA



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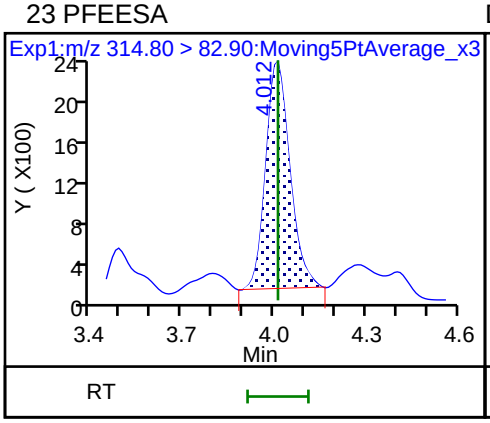
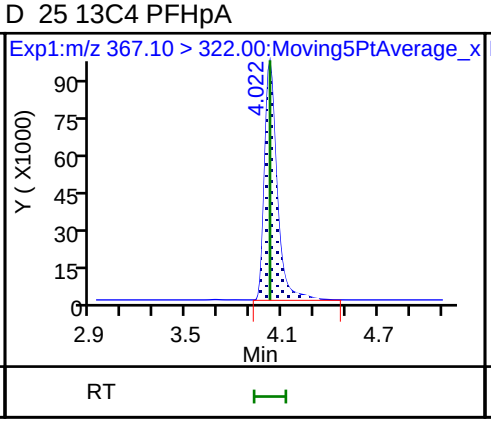


D 25 13C4 PFHpA



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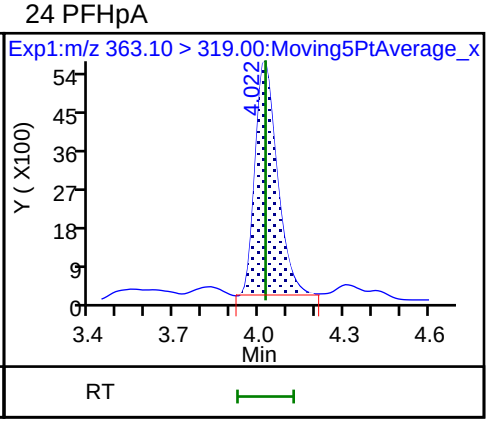

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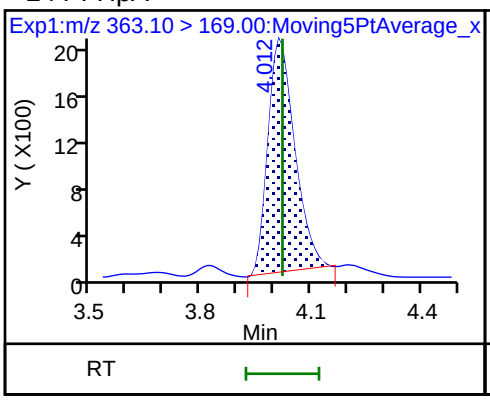
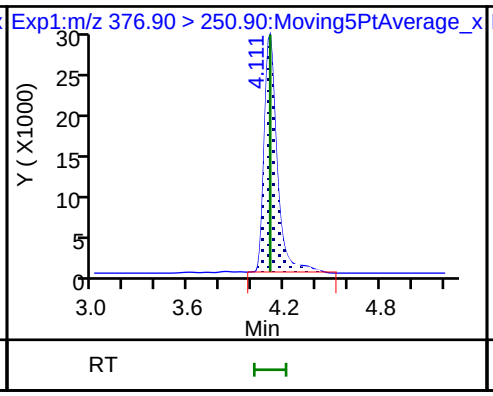


26 ADONA



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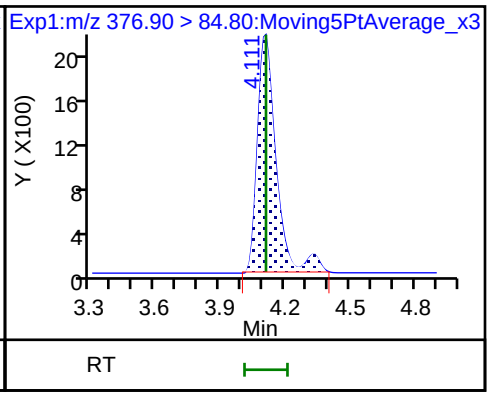
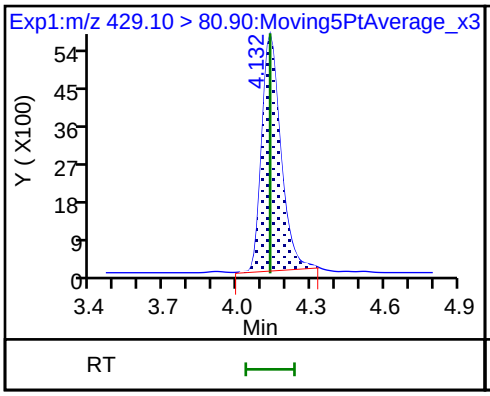


D 29 13C2-6:2FTS



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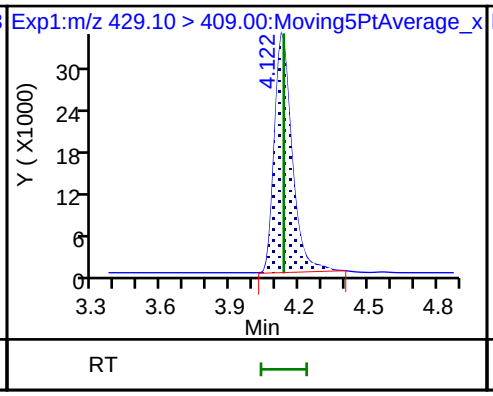
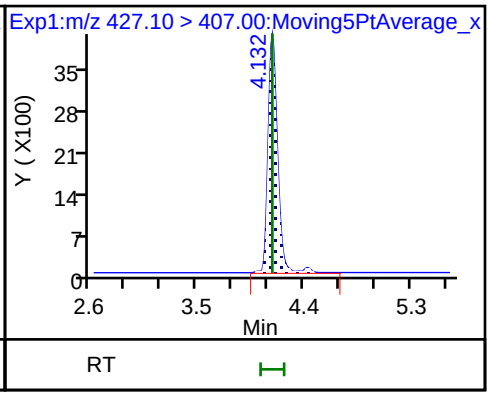


27 6:2FTS



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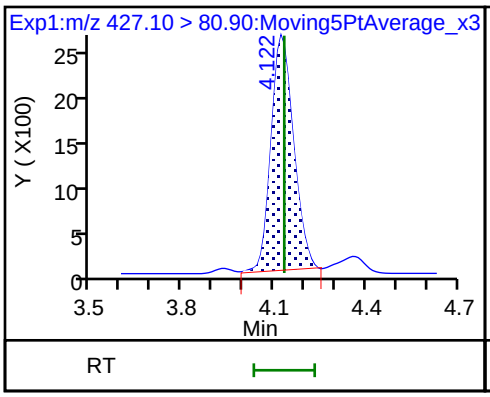
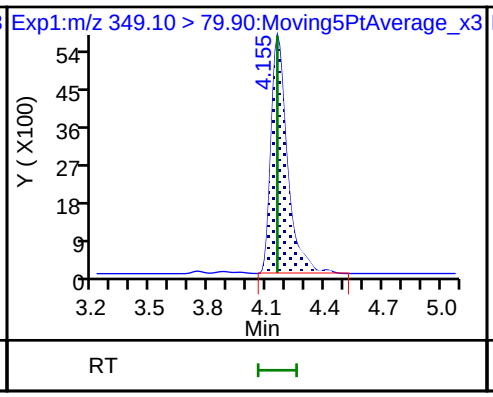


28 PFPeS



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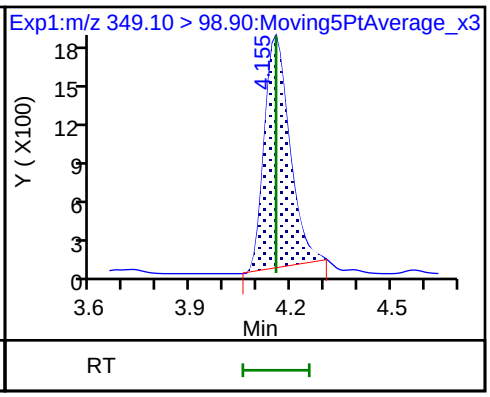
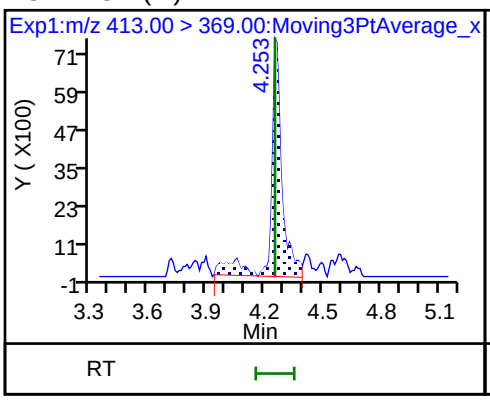


32 PFOA (M)



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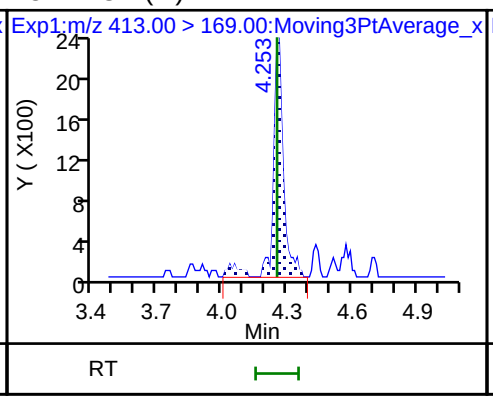

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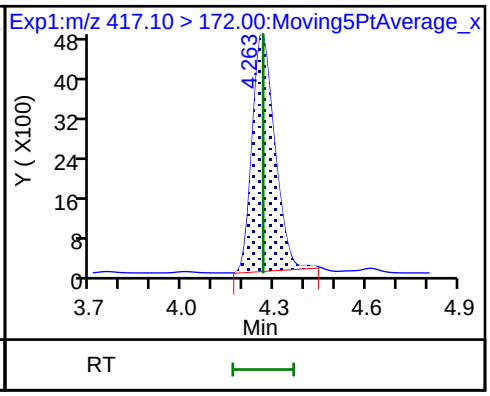

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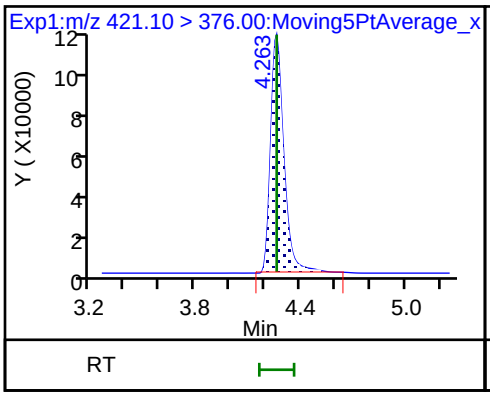

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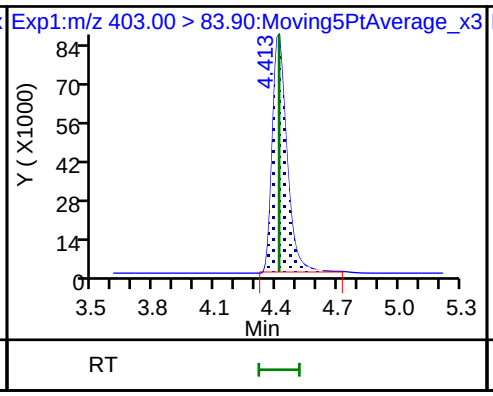

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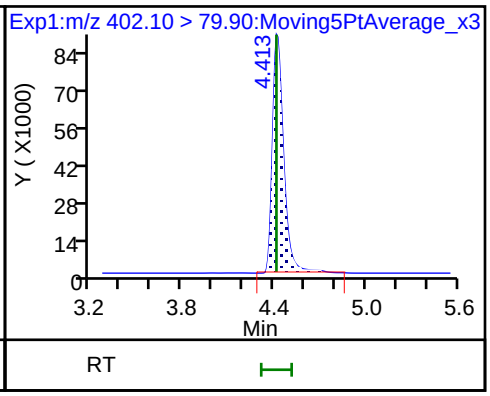

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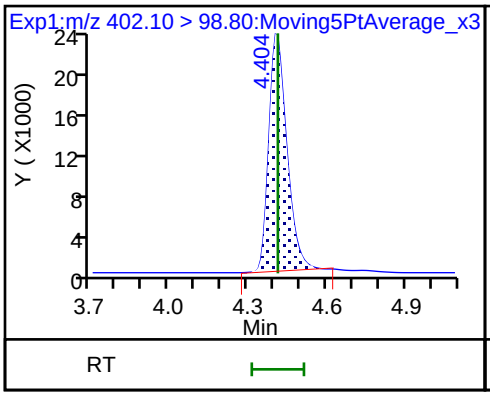

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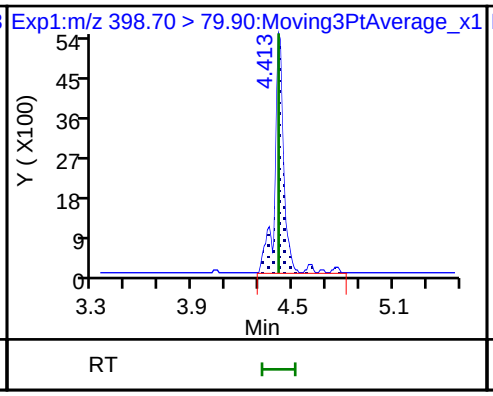

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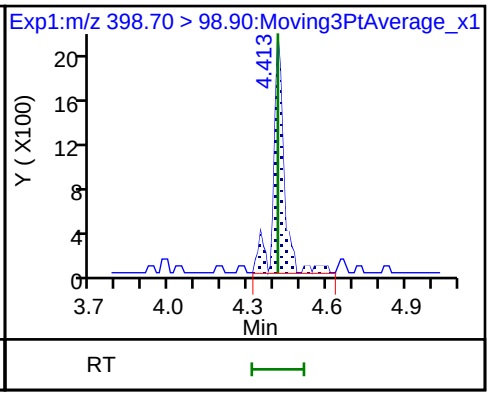
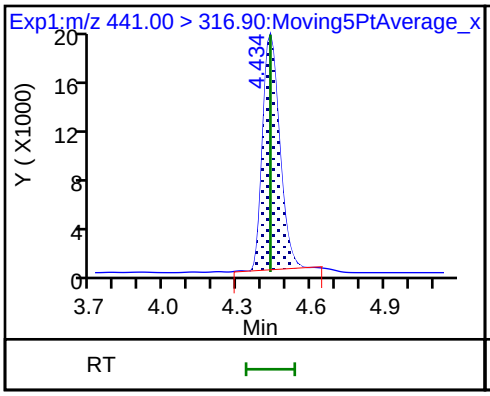


33 7:3 FTCA



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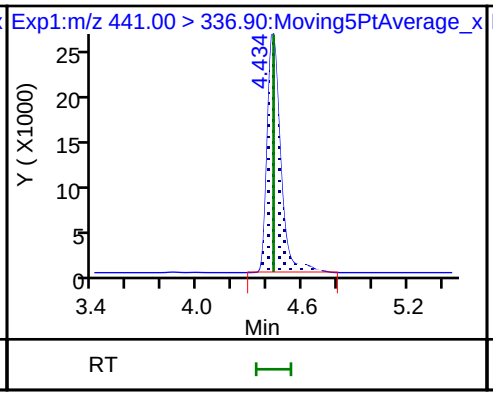
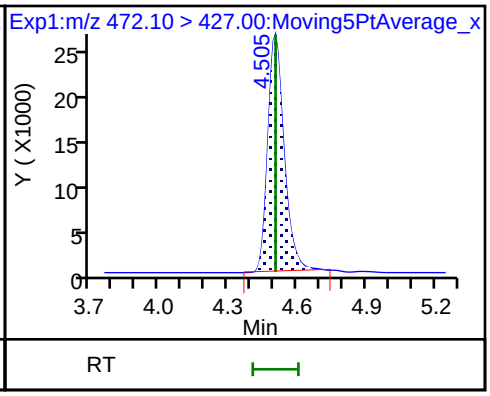


D 38 13C9 PFNA



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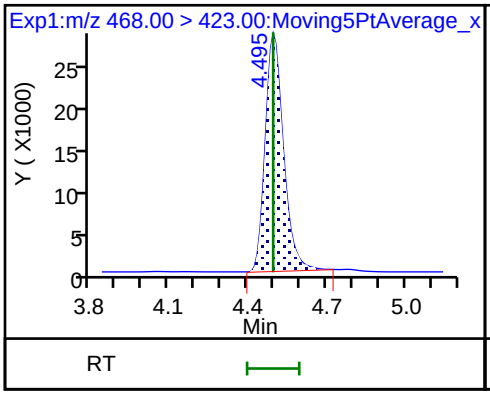

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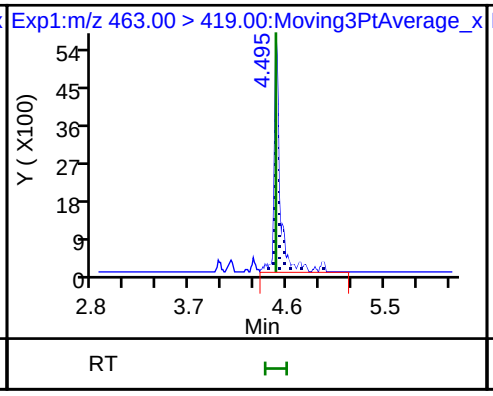

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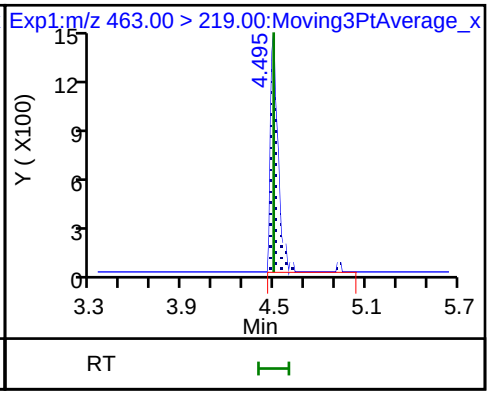
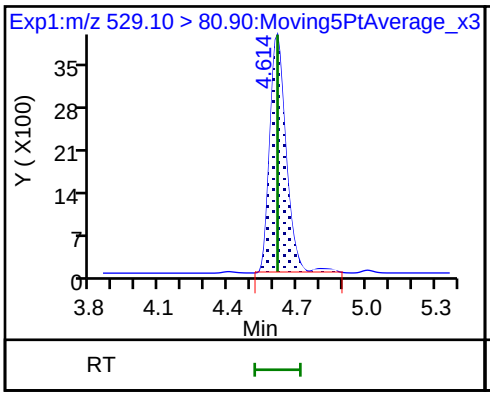
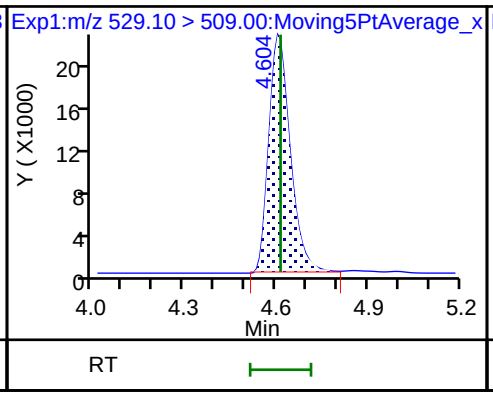


D 41 13C2-8:2FTS



D 41 13C2-8:2FTS



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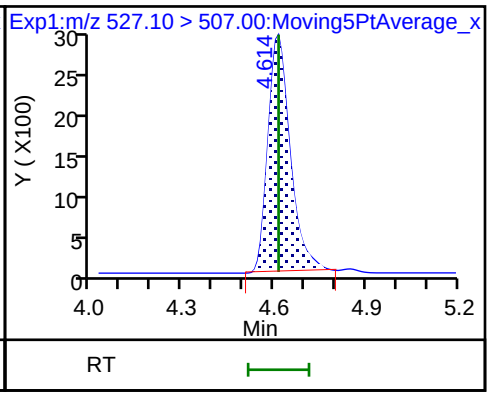

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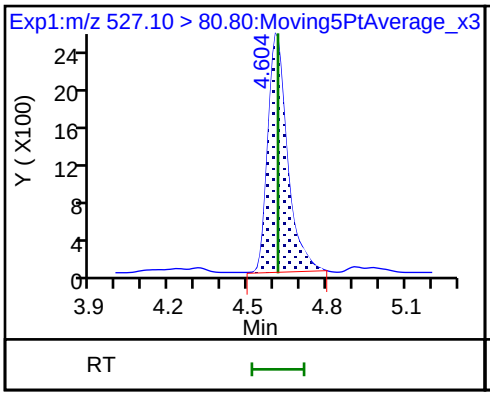

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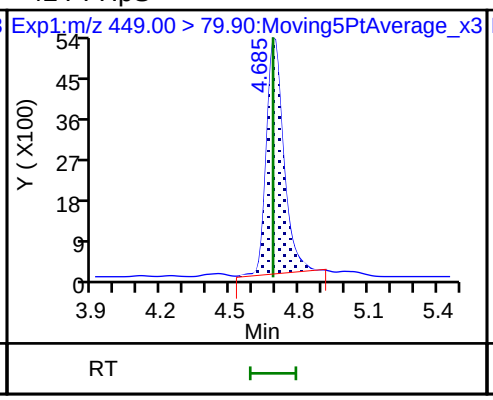

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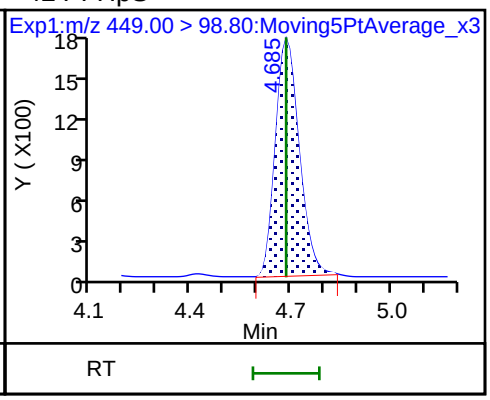
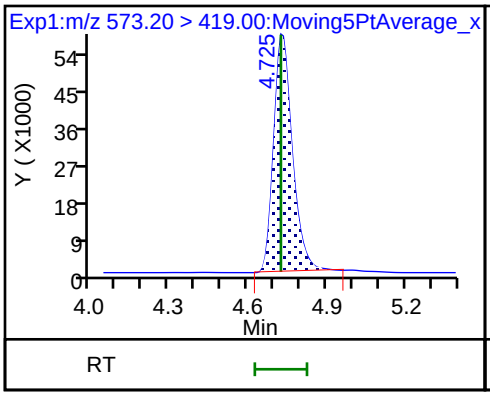
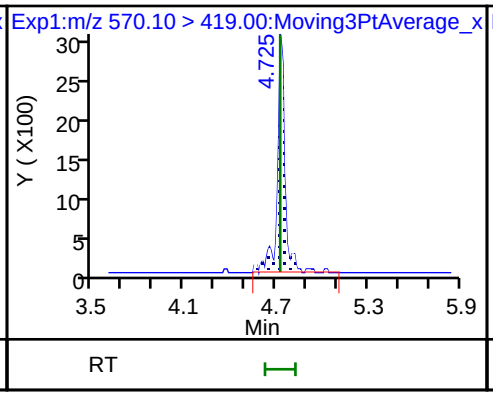


D 44 d3-NMeFOSAA



43 NMeFOSAA



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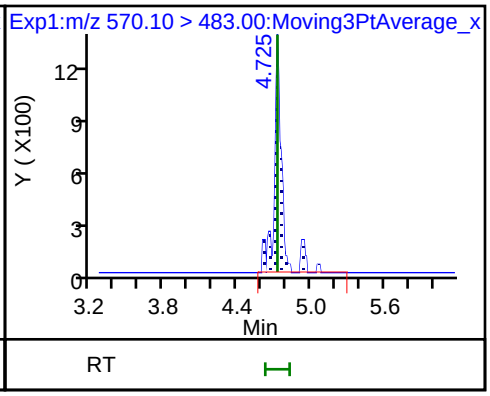
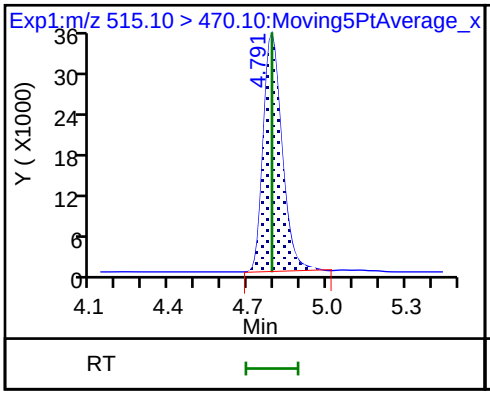


* 46 13C2 PFDA



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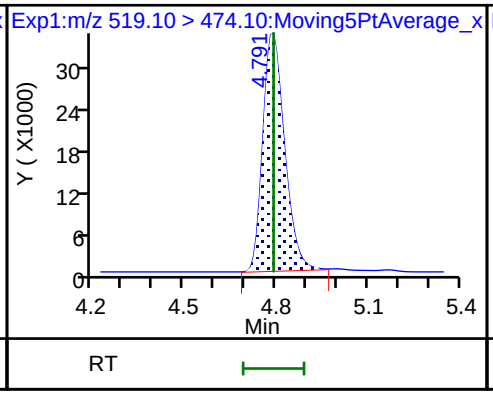
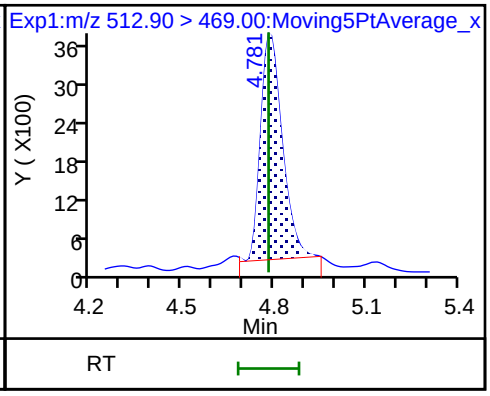
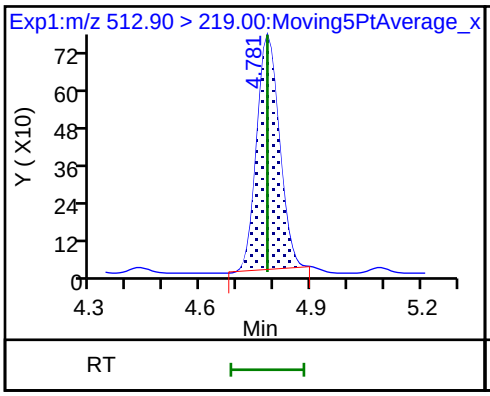


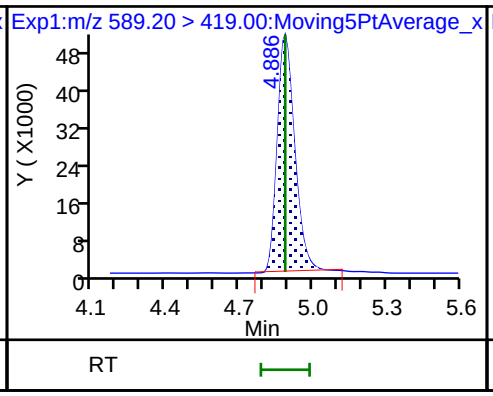
45 PFDA



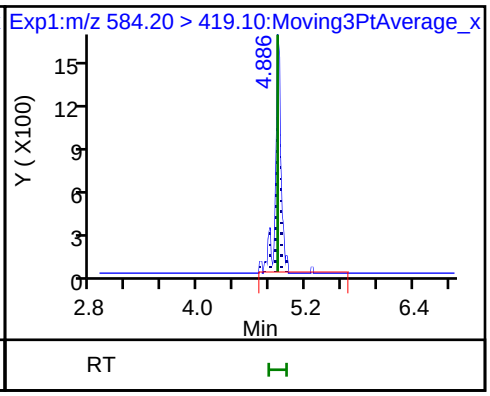
45 PFDA



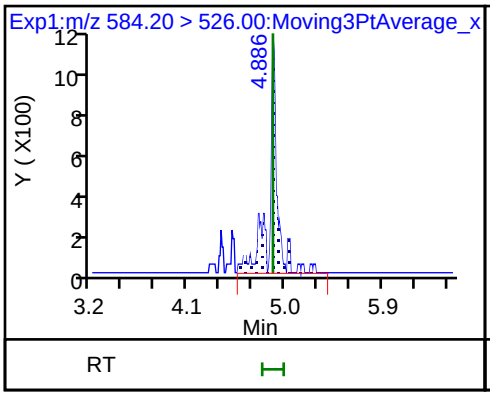
D 49 d5-NEtFOSAA



48 NEtFOSAA



48 NEtFOSAA



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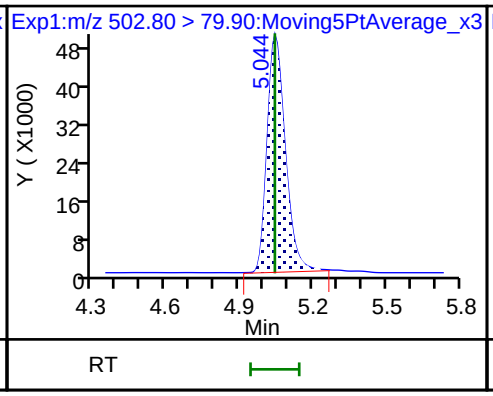

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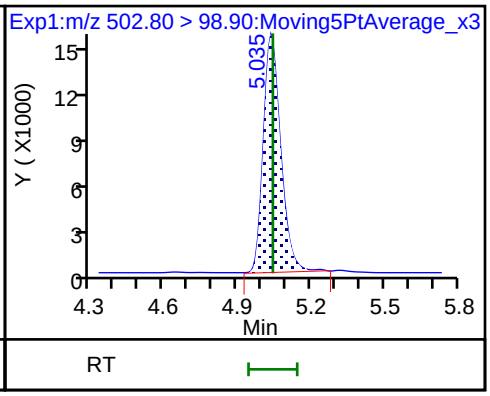

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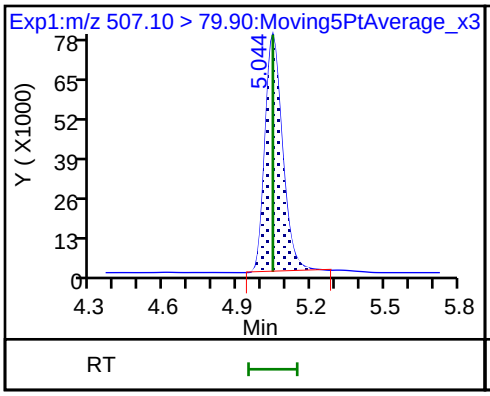
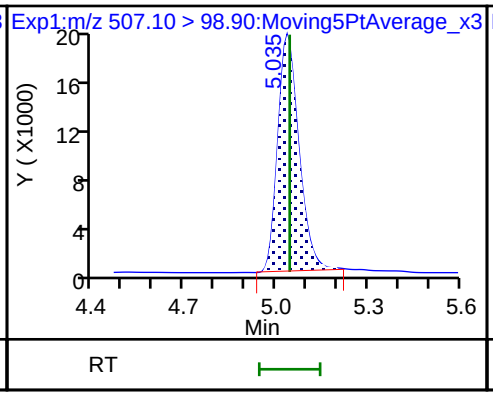
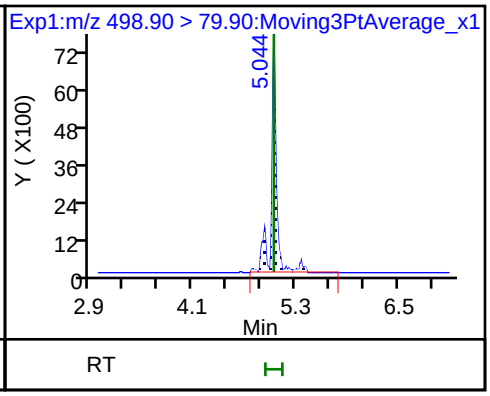


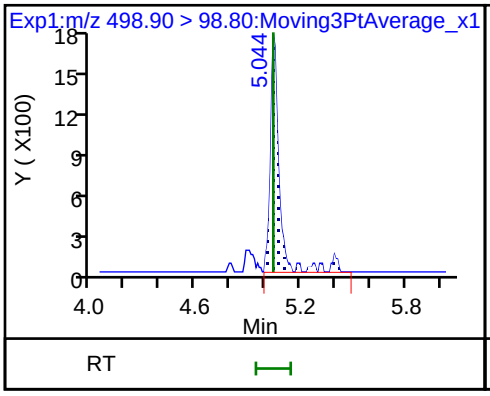
D 51 13C8 PFOS



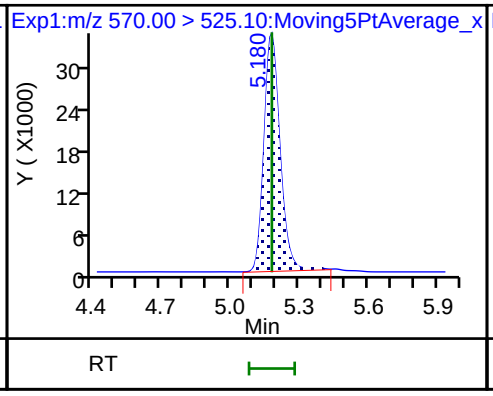
50 PFOS



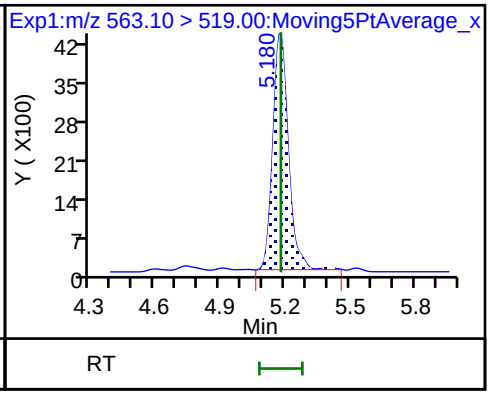
50 PFOS



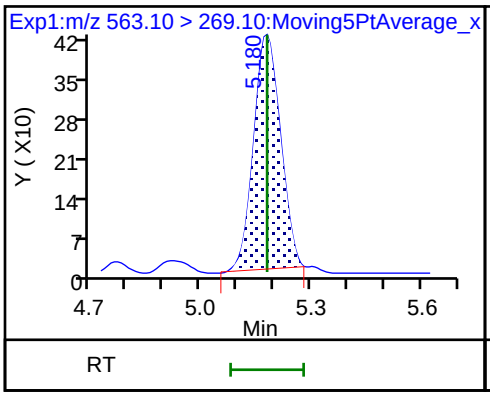
D 54 13C7 PFUnA



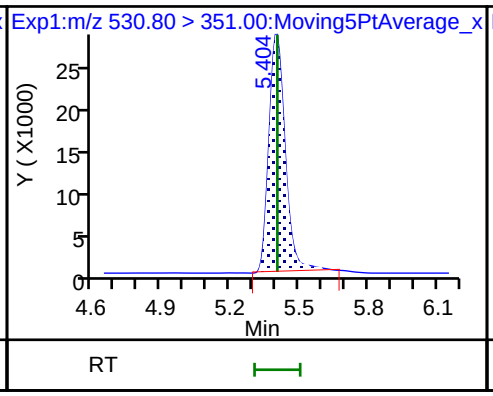
53 PFUnA



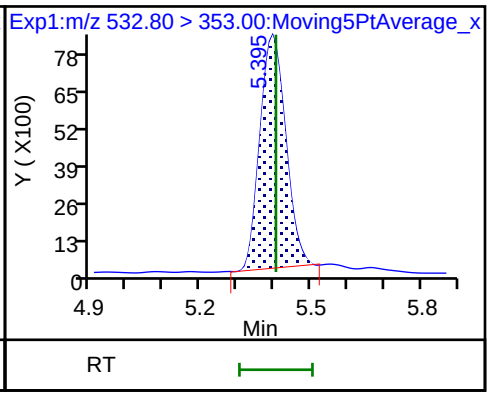
53 PFUnA



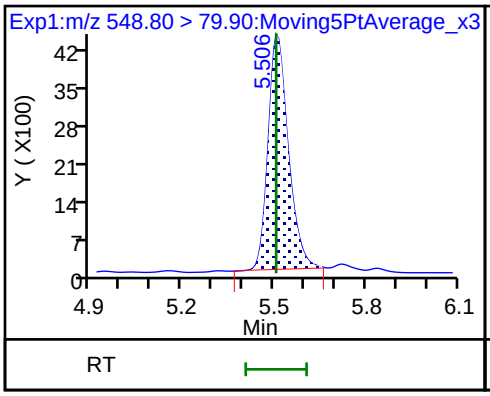
55 9ClFOS



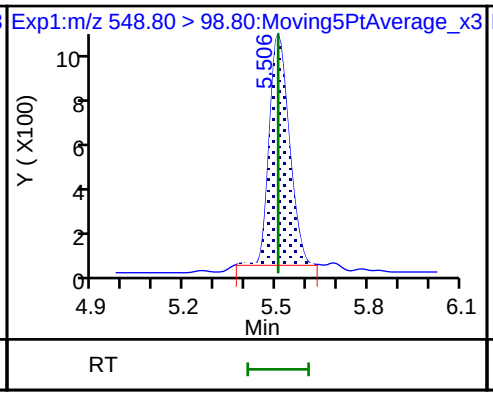
55 9ClFOS



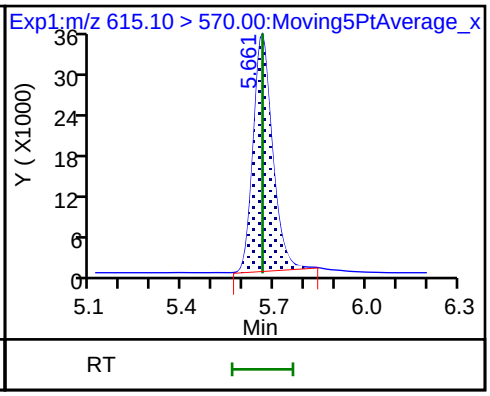
56 PFNS



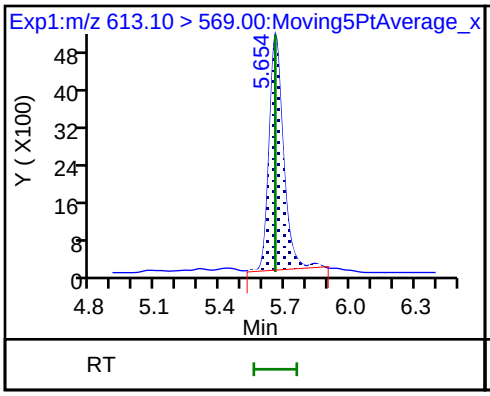
56 PFNS



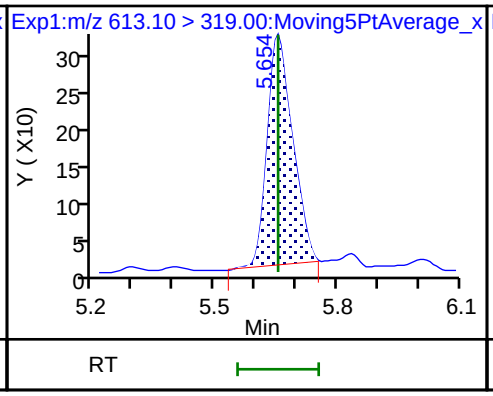
D 58 PFDoDA



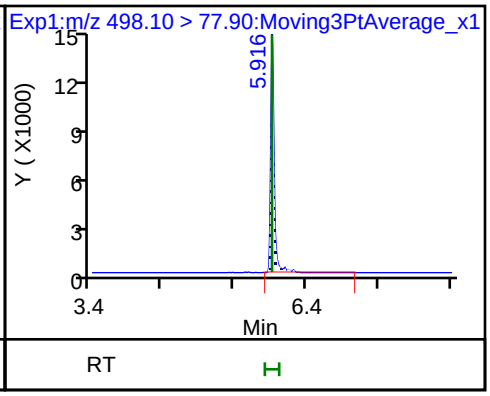
57 PFDoA



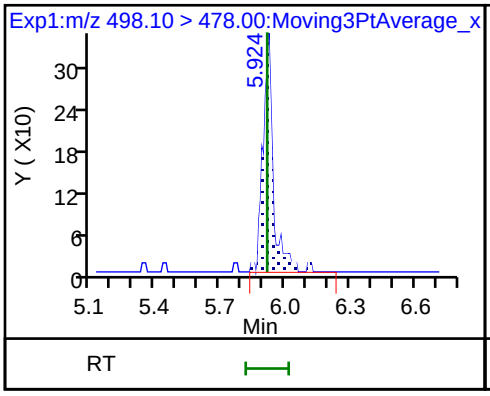
57 PFDoA



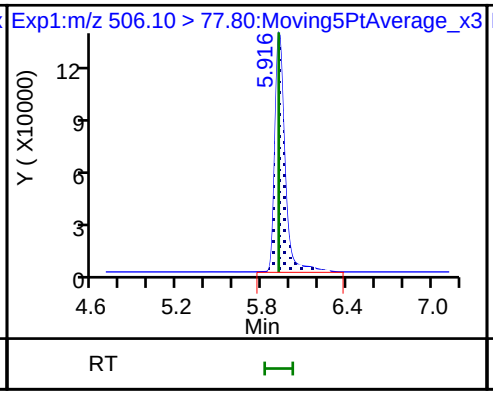
60 PFOSA



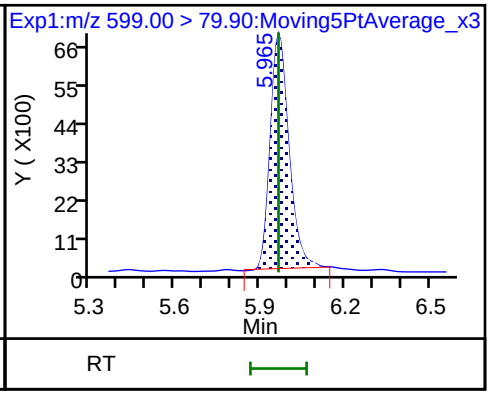
60 PFOSA



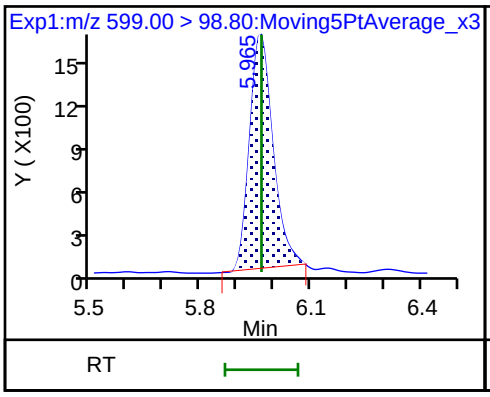
D 59 13C8 FOSA



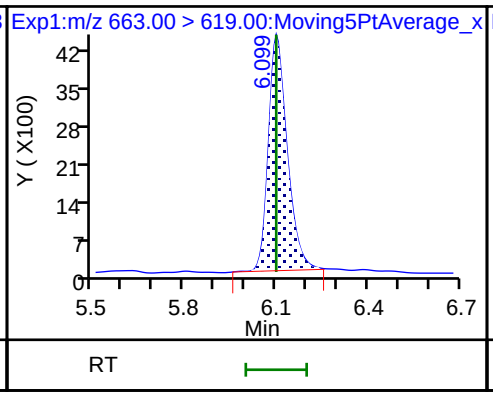
61 PFDS



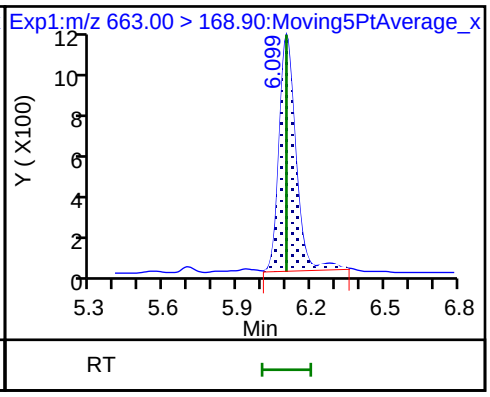
61 PFDS



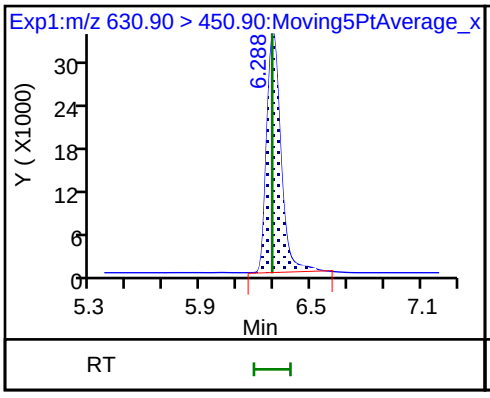
62 PFTrDA



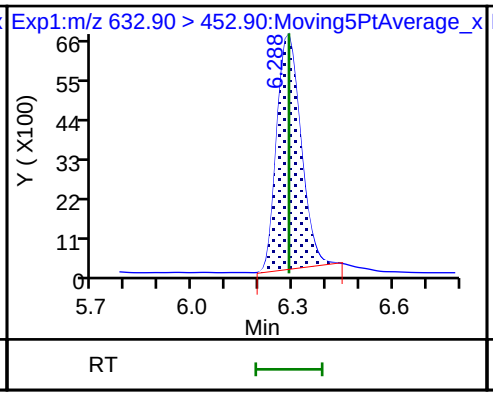
62 PFTrDA



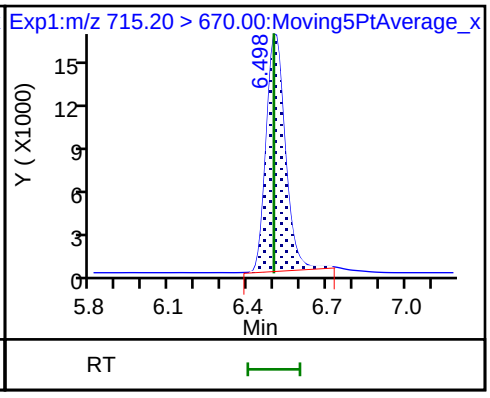
63 11ClFOS



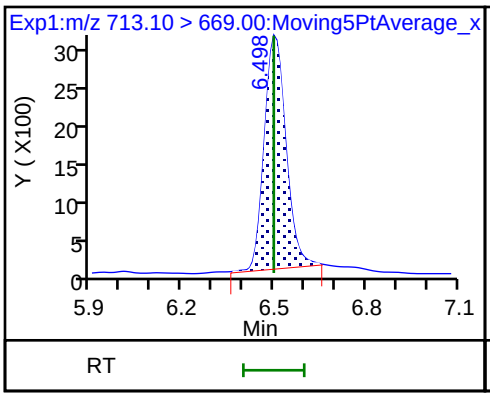
63 11ClFOS



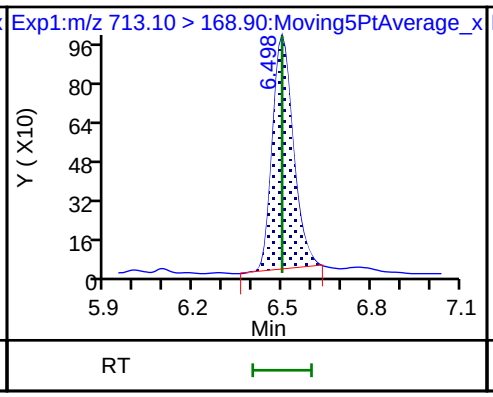
D 65 13C2 PFTeDA



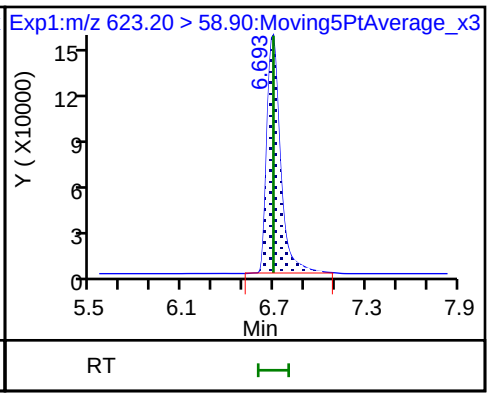
64 PFTeDA



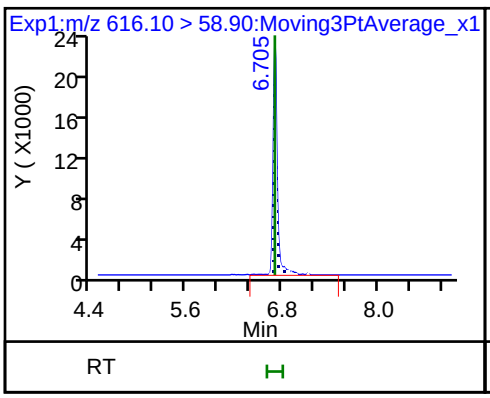
64 PFTeDA



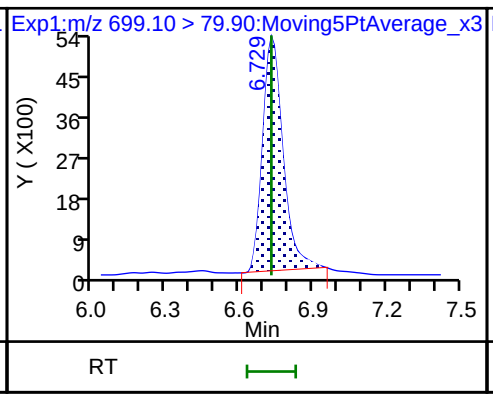
D 67 d7-N-Me-FOSE



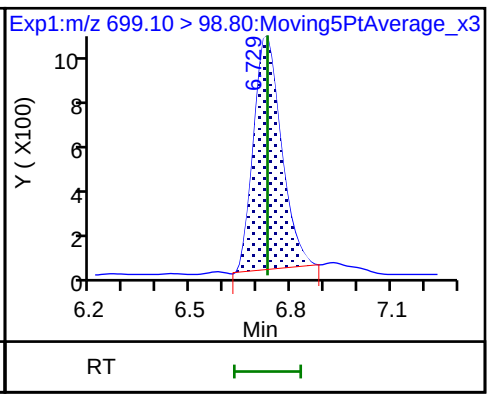
68 N-MeFOSE-M



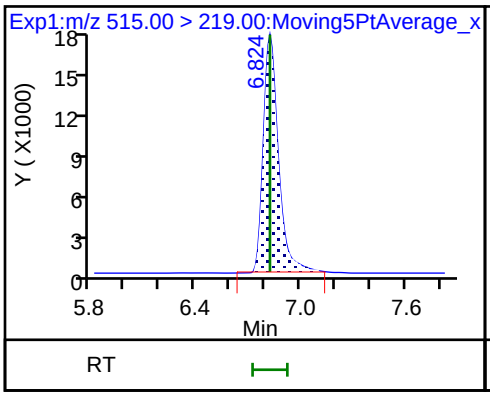
66 PFDoS



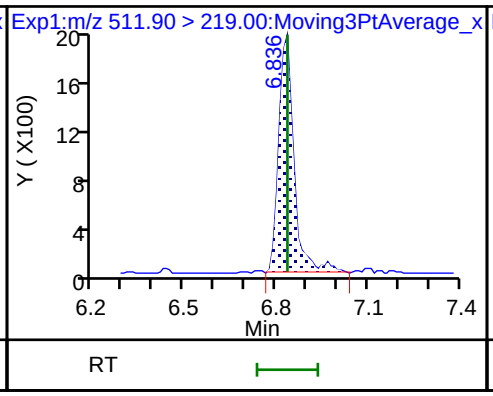
66 PFDoS



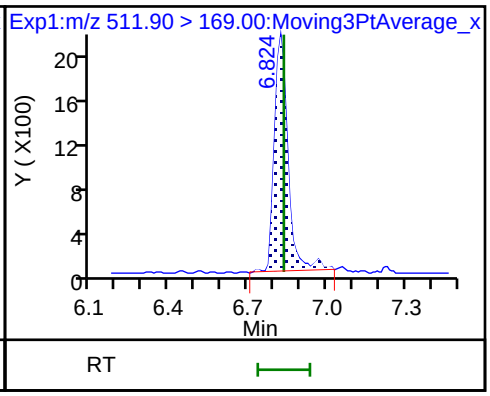
D 69 d3-NMePFOSA



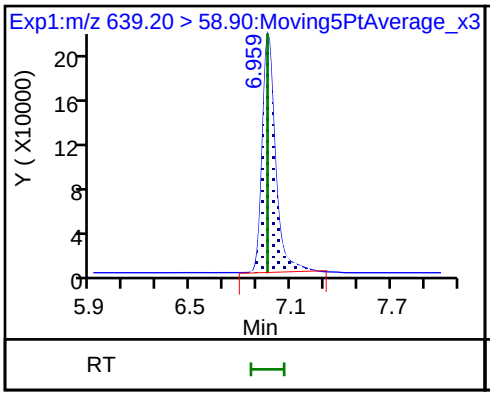
70 NMeFOSA



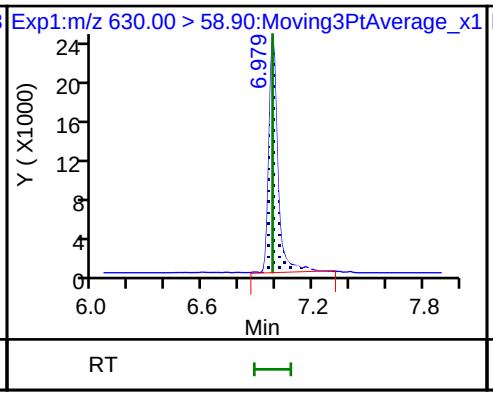
70 NMeFOSA



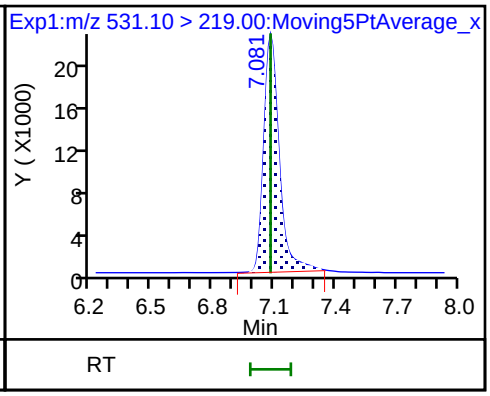
D 71 d9-N-EtFOSE



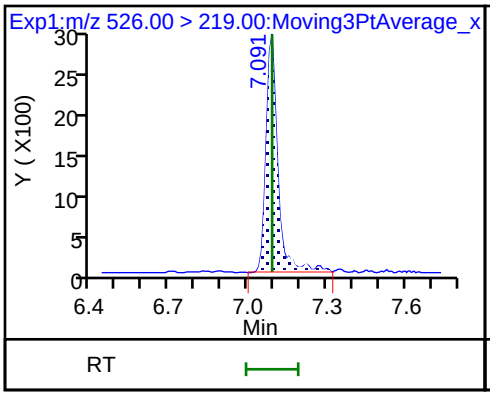
72 N-EtFOSE-M



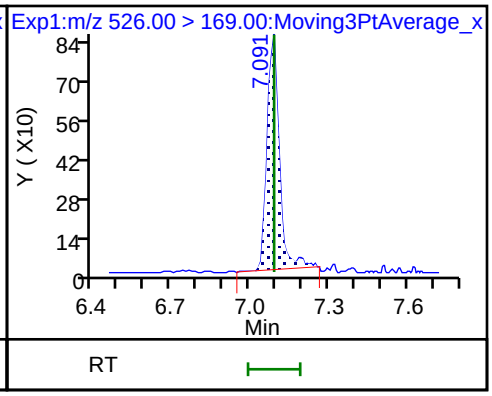
D 73 d5-NEtPFOSA



74 N-EtFOSA-M



74 N-EtFOSA-M



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

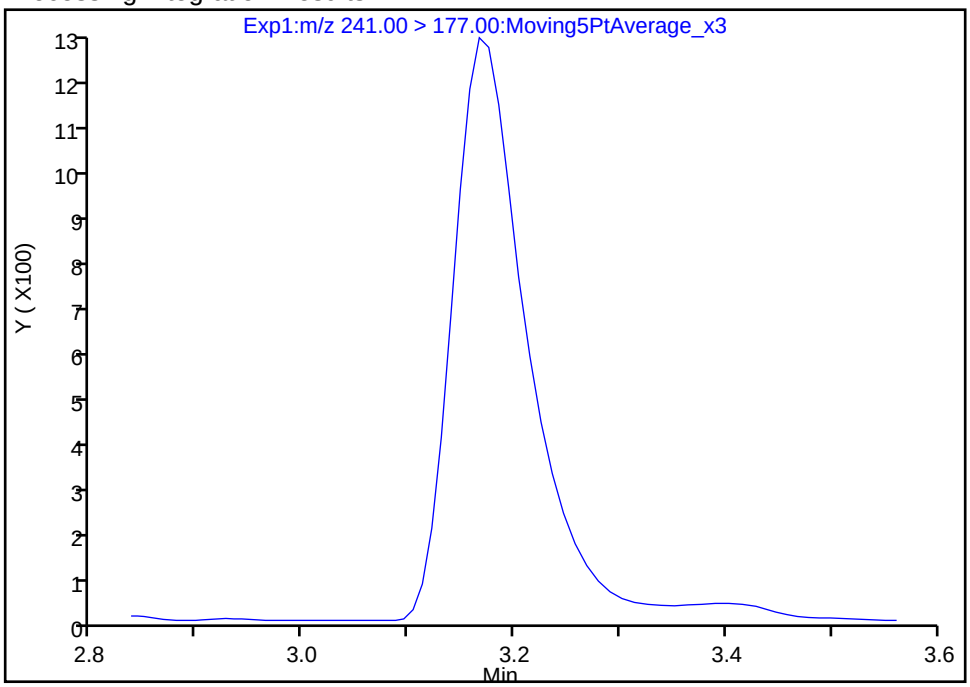
Data File:	\\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-06.d				
Injection Date:	08-Aug-2023 11:38:00	Instrument ID:	30729		
Lims ID:	CCVO 1_CAL1				
Client ID:					
Operator ID:	US19_USR_INS20263	ALS Bottle#:	20002	Worklist Smp#:	1
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

5 3:3 FTCA, CAS: 356-02-5

Signal: 1

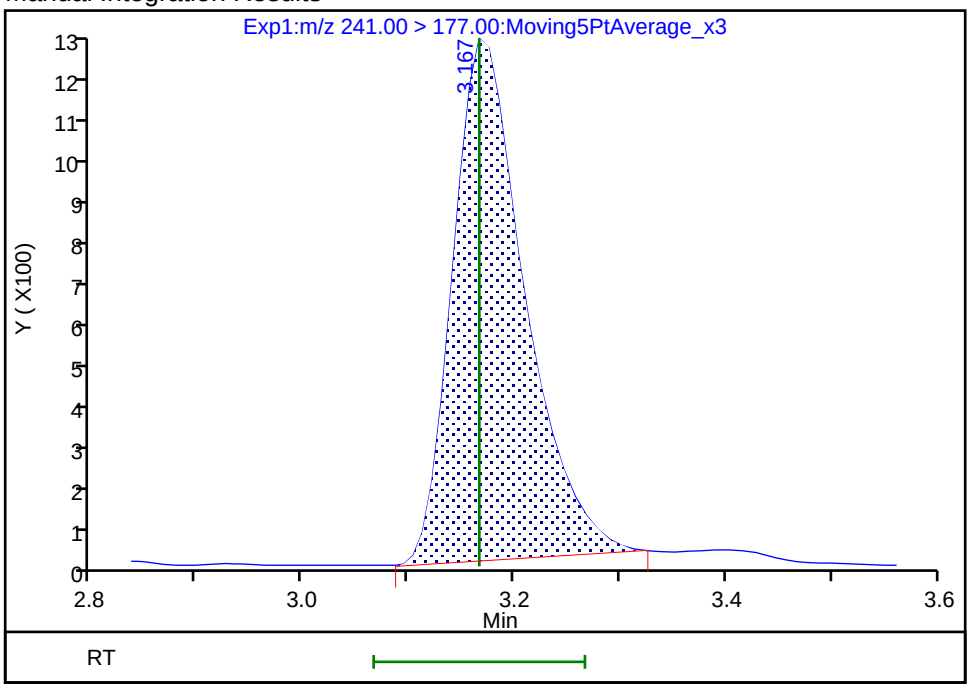
Not Detected
Expected RT: 3.17

Processing Integration Results



Manual Integration Results

RT: 3.17
Area: 5645
Amount: 0.879842
Amount Units: ng/ml



Reviewer: QY4X, 08-Aug-2023 12:26:49 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

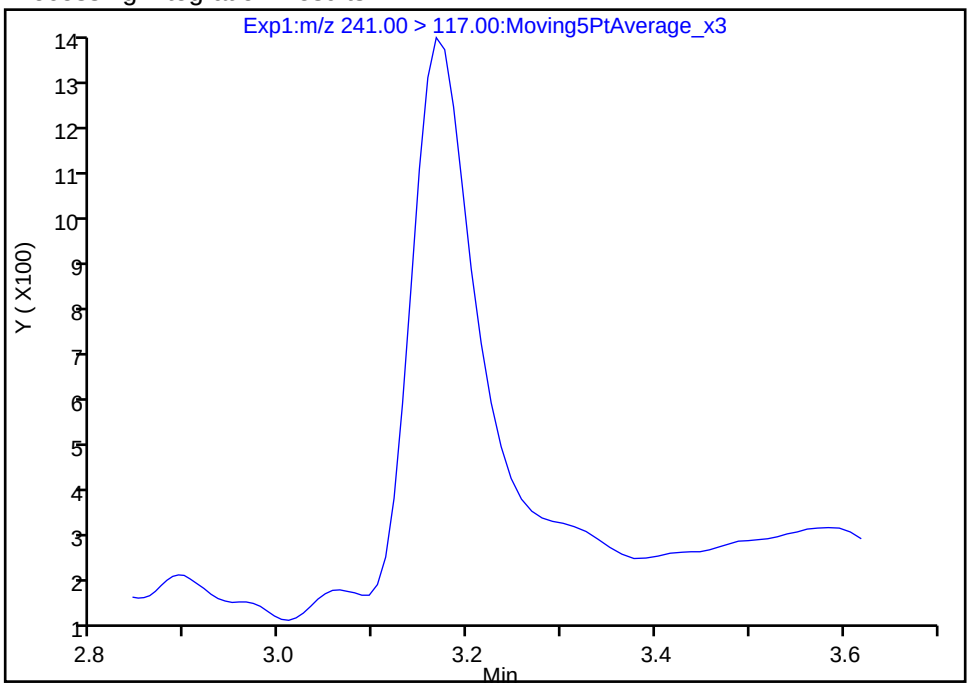
Data File:	\\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-06.d				
Injection Date:	08-Aug-2023 11:38:00	Instrument ID:	30729		
Lims ID:	CCVO 1_CAL1				
Client ID:					
Operator ID:	US19_USR_INS20263	ALS Bottle#:	20002	Worklist Smp#:	1
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

5 3:3 FTCA, CAS: 356-02-5

Signal: 2

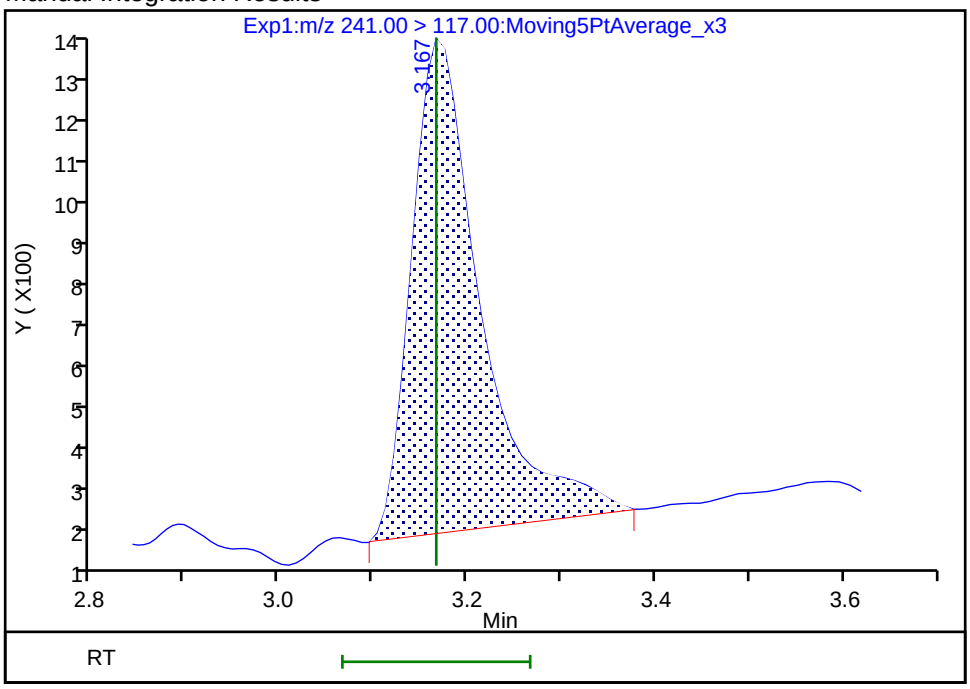
Not Detected
Expected RT: 3.17

Processing Integration Results



Manual Integration Results

RT: 3.17
Area: 5792
Amount: 0.879842
Amount Units: ng/ml



Reviewer: QY4X, 08-Aug-2023 12:26:57 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

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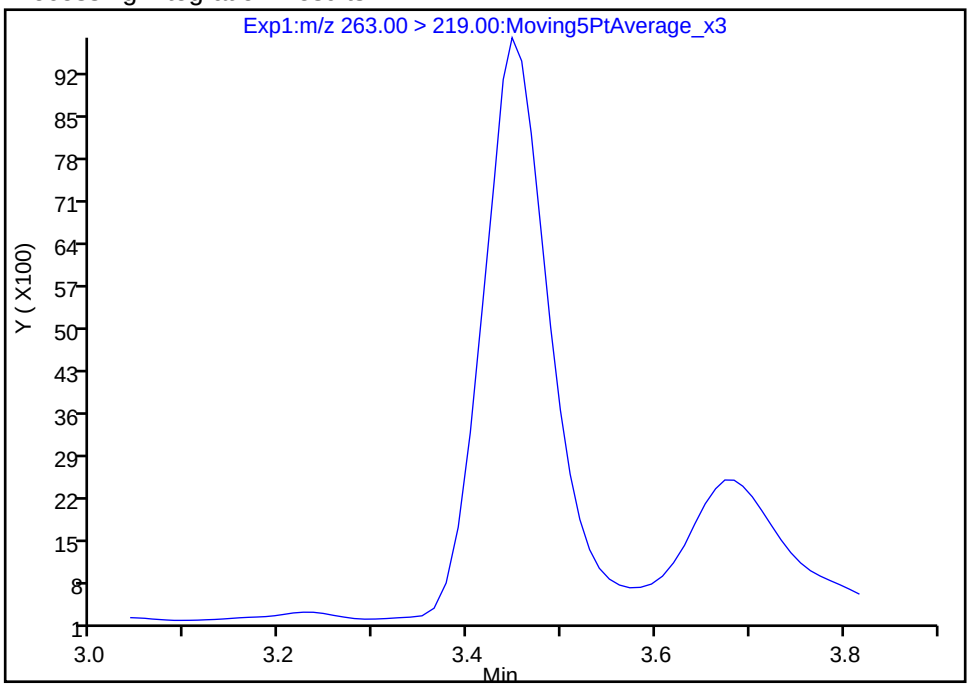
Injection Date:	08-Aug-2023 11:38:00	Instrument ID:	30729		
Lims ID:	CCVO 1_CAL1				
Client ID:					
Operator ID:	US19_USR_INS20263	ALS Bottle#:	20002	Worklist Smp#:	1
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

6 PFPA, CAS: 2706-90-3

Signal: 1

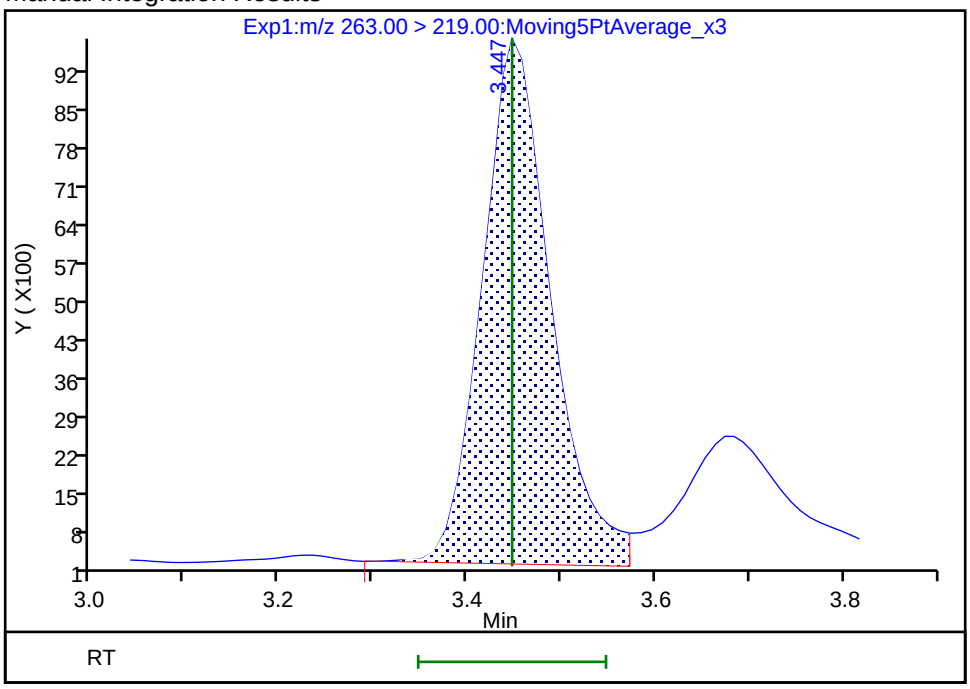
Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.45
Area: 48464
Amount: 0.378278
Amount Units: ng/ml



Reviewer: QY4X, 08-Aug-2023 12:27:07 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

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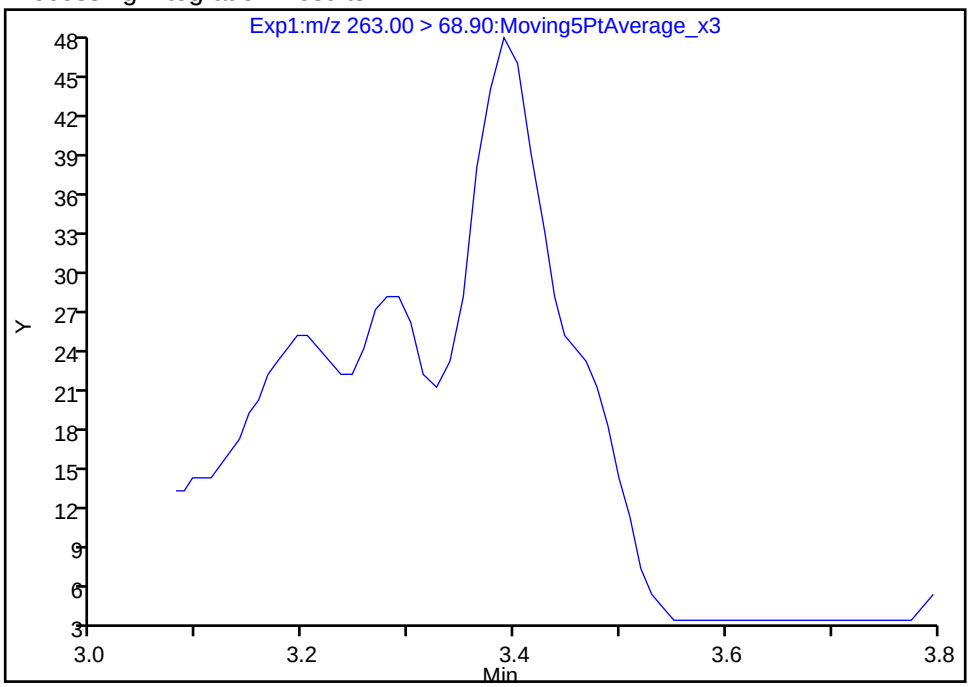
Injection Date:	08-Aug-2023 11:38:00	Instrument ID:	30729		
Lims ID:	CCVO 1_CAL1				
Client ID:					
Operator ID:	US19_USR_INS20263	ALS Bottle#:	20002	Worklist Smp#:	1
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

6 PFPA, CAS: 2706-90-3

Signal: 2

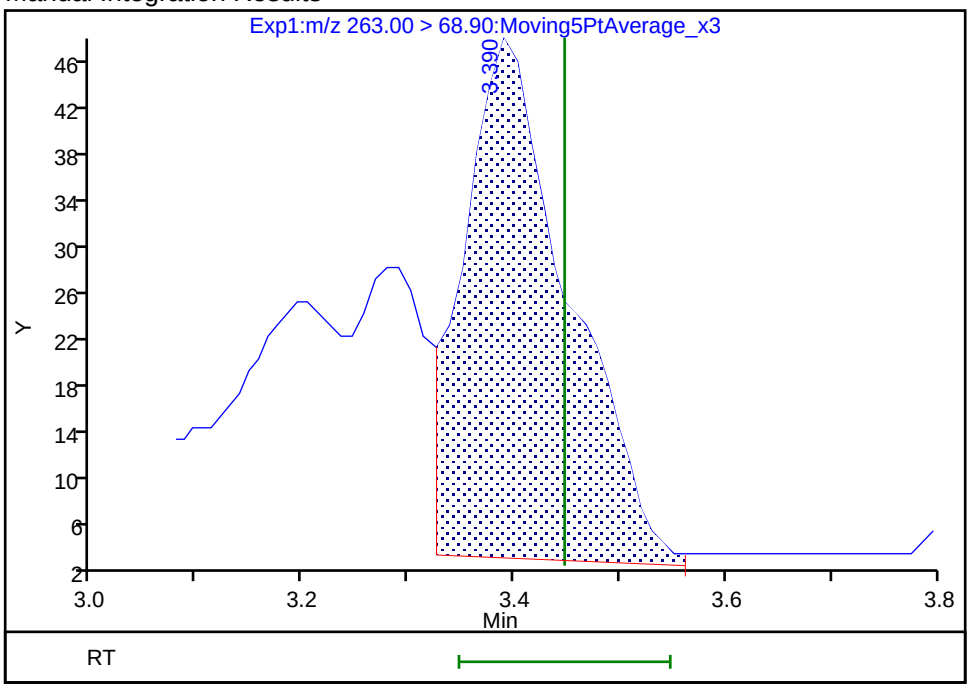
Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.39
Area: 311
Amount: 0.378278
Amount Units: ng/ml



Reviewer: QY4X, 08-Aug-2023 12:27:16 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

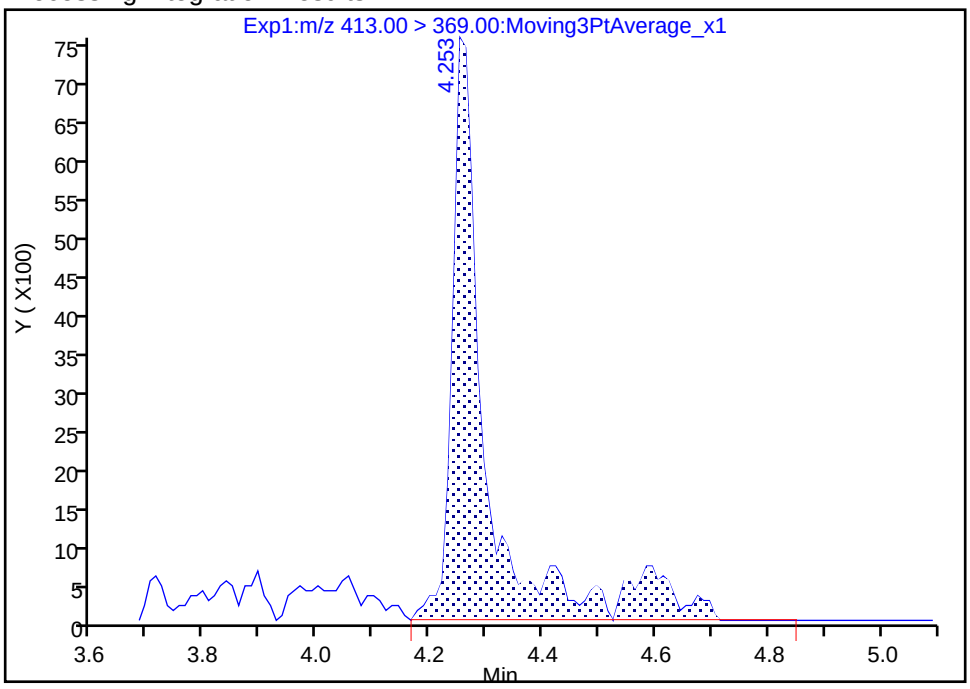
Data File:	\\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-06.d				
Injection Date:	08-Aug-2023 11:38:00	Instrument ID:	30729		
Lims ID:	CCVO 1_CAL1				
Client ID:					
Operator ID:	US19_USR_INS20263	ALS Bottle#:	20002	Worklist Smp#:	1
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

32 PFOA, CAS: 335-67-1

Signal: 1

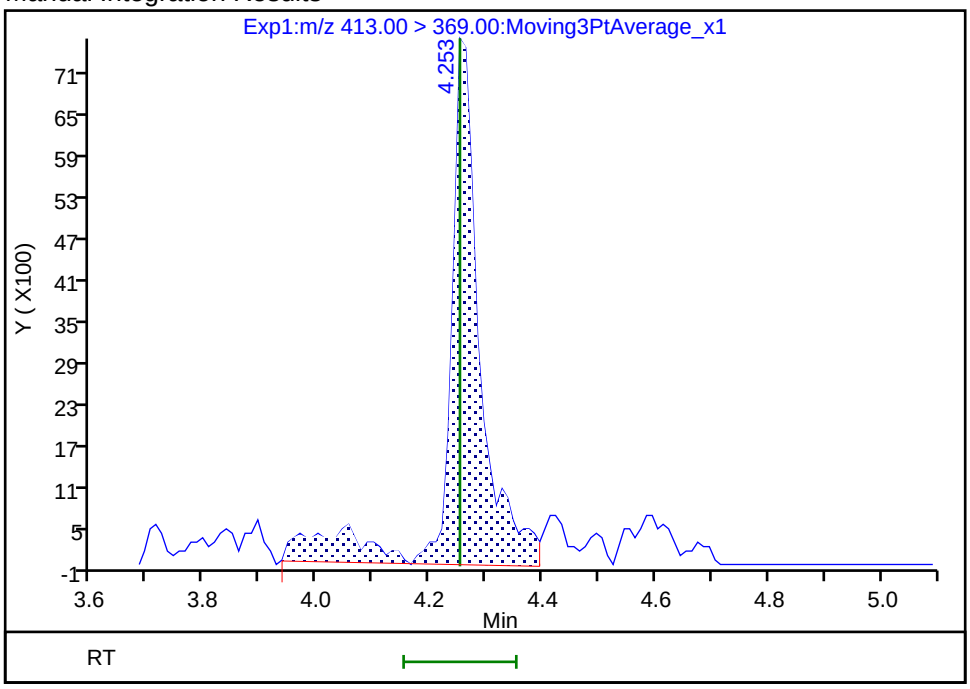
Processing Integration Results

RT: 4.25
Area: 32729
Amount: 0.285052
Amount Units: ng/ml



Manual Integration Results

RT: 4.25
Area: 29383
Amount: 0.255910
Amount Units: ng/ml



Reviewer: QY4X, 08-Aug-2023 12:26:24 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

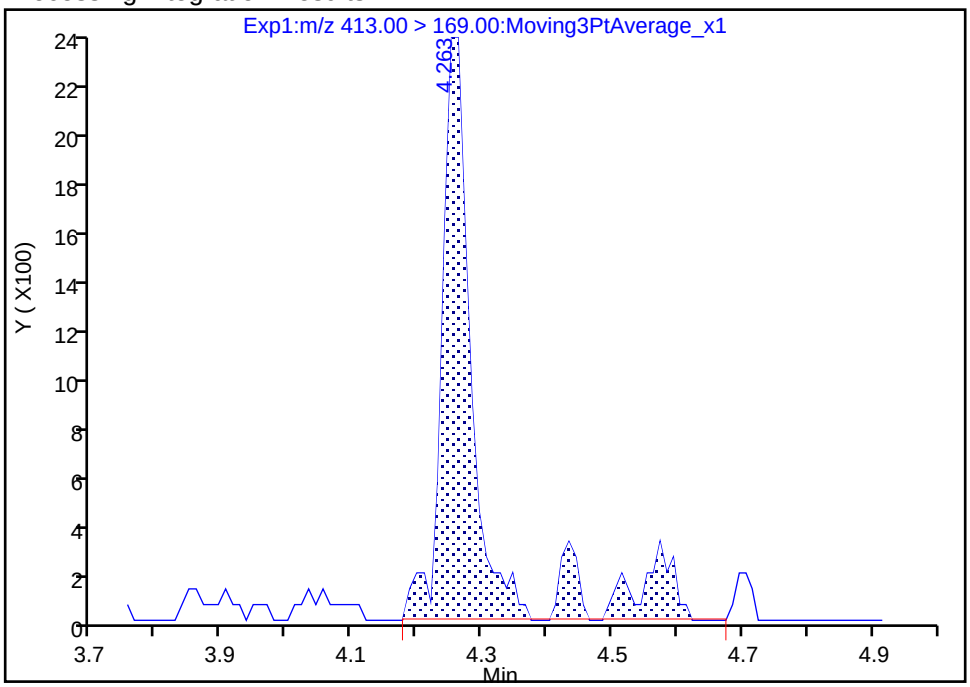
Data File:	\\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-06.d				
Injection Date:	08-Aug-2023 11:38:00	Instrument ID:	30729		
Lims ID:	CCVO 1_CAL1				
Client ID:					
Operator ID:	US19_USR_INS20263	ALS Bottle#:	20002	Worklist Smp#:	1
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

32 PFOA, CAS: 335-67-1

Signal: 2

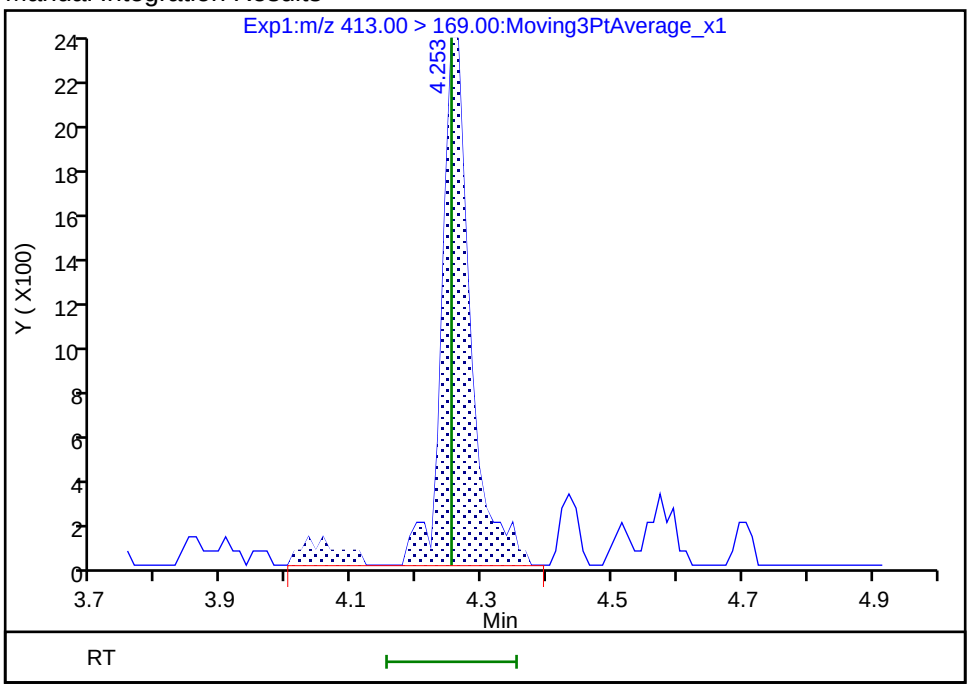
Processing Integration Results

RT: 4.26
Area: 9026
Amount: 0.285052
Amount Units: ng/ml



Manual Integration Results

RT: 4.25
Area: 7776
Amount: 0.255910
Amount Units: ng/ml



Reviewer: QY4X, 08-Aug-2023 12:26:37 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 460-282979-1

SDG No.:

Lab Sample ID: CCV 410-405691/35 Calibration Date: 08/08/2023 19:02

Instrument ID: 30729 Calib Start Date: 08/05/2023 09:27

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 08/05/2023 11:25

Lab File ID: 23AUG08-40.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid	AveID	0.8351	0.8233		9.86	10.0	-1.4	30.0
3:3 FTCA	AveID	0.0907	0.0851		11.7	12.5	-6.1	30.0
Perfluoro-3-methoxypropanoic acid	AveID	1.812	1.735		4.79	5.00	-4.3	30.0
Perfluoropentanoic acid	AveID	1.811	1.738		4.80	5.00	-4.0	30.0
Perfluoro(4-methoxybutanoic acid)	AveID	1.455	1.436		4.94	5.00	-1.3	30.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	2.677	2.753		9.64	9.38	2.8	30.0
Perfluoro-3,6-dioxaheptanoic acid	AveID	0.7006	0.6685		4.77	5.00	-4.6	30.0
Perfluorohexanoic acid	AveID	5.431	5.419		2.50	2.50	-0.2	30.0
5:3 FTCA	AveID	1.607	1.525		59.3	62.5	-5.1	30.0
Perfluorobutanesulfonic acid	AveID	0.6048	0.6106		2.24	2.22	1.0	30.0
HFPO-DA	AveID	0.6844	0.6564		9.59	10.0	-4.1	30.0
PFEESA	AveID	28.68	28.03		4.35	4.45	-2.3	30.0
Perfluoroheptanoic acid	AveID	0.9439	0.9198		2.44	2.50	-2.5	30.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	1.933	1.882		9.20	9.45	-2.6	30.0
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	AveID	4.563	3.754		7.82	9.50	-17.7	30.0
Perfluoropentanesulfonic acid	AveID	0.9858	1.053		2.51	2.35	6.8	30.0
Perfluorooctanoic acid	AveID	0.4940	0.4949		2.50	2.50	0.2	30.0
Perfluorohexanesulfonic acid	AveID	0.5267	0.5658		2.46	2.29	7.4	30.0
7:3 FTCA	AveID	1.139	1.110		60.9	62.5	-2.6	30.0
Perfluorononanoic acid	AveID	0.8401	0.8357		2.49	2.50	-0.5	30.0
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	AveID	5.615	5.802		9.92	9.60	3.3	30.0
Perfluoroheptanesulfonic acid	AveID	1.010	0.9777		2.31	2.38	-3.2	30.0
NMeFOSAA	AveID	0.9373	0.8523		2.27	2.50	-9.1	30.0
Perfluorodecanoic acid	AveID	0.7111	0.6757		2.38	2.50	-5.0	30.0
NEtFOSAA	AveID	0.7481	0.6529		2.18	2.50	-12.7	30.0
Perfluorooctanesulfonic acid	AveID	0.9211	0.8981		2.26	2.32	-2.5	30.0
Perfluoroundecanoic acid	AveID	0.8846	0.9029		2.55	2.50	2.1	30.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	1.782	1.868		9.81	9.35	4.9	30.0
Perfluorononanesulfonic acid	AveID	0.6776	0.7035		2.50	2.41	3.8	30.0
Perfluorododecanoic acid	AveID	0.9435	0.9727		2.58	2.50	3.1	30.0
Perfluorooctanesulfonamide	AveID	1.032	1.036		2.51	2.50	0.4	30.0
Perfluorodecanesulfonic acid	AveID	1.066	1.087		2.46	2.41	2.0	30.0
Perfluorotridecanoic acid	AveID	1.001	1.030		2.57	2.50	2.9	30.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	2.383	2.346		9.31	9.45	-1.5	30.0
Perfluorotetradecanoic acid	AveID	1.144	1.184		2.59	2.50	3.5	30.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	1.112	1.074		2.34	2.43	-3.4	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 460-282979-1

SDG No.:

Lab Sample ID: CCV 410-405691/35 Calibration Date: 08/08/2023 19:02

Instrument ID: 30729 Calib Start Date: 08/05/2023 09:27

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 08/05/2023 11:25

Lab File ID: 23AUG08-40.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	AveID	1.112	1.113		25.0	25.0	0.1	30.0
NMeFOSA	AveID	0.7946	0.8068		2.54	2.50	1.5	30.0
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	AveID	0.9402	0.9126		24.3	25.0	-2.9	30.0
N-ethylperfluoro-1-octanesulfonamide	AveID	0.9632	0.9675		2.51	2.50	0.5	30.0
13C4 PFBA	Ave	0.8117	0.8077		9.95	10.0	-0.5	30.0
13C5 PFPeA	Ave	0.7185	0.7878		5.48	5.00	9.7	30.0
M2-4:2 FTS	Ave	0.0734	0.0694		4.43	4.69	-5.5	30.0
13C5 PFHxA	Ave	0.1748	0.1825		2.61	2.50	4.4	30.0
13C3 PFBS	Ave	1.037	0.9833		2.21	2.33	-5.2	30.0
13C3 HFPO-DA	Ave	1.103	1.212		11.0	10.0	9.8	30.0
13C4 PFHpA	Ave	2.096	2.189		2.61	2.50	4.5	30.0
M2-6:2 FTS	Ave	0.0379	0.0447		5.60	4.76	17.8	30.0
13C8 PFOA	Ave	23.77	22.74		2.39	2.50	-4.3	30.0
13C3 PFHxS	Ave	1.127	1.010		2.13	2.37	-10.3	30.0
13C9 PFNA	Ave	1.056	1.078		1.28	1.25	2.1	30.0
M2-8:2 FTS	Ave	0.0202	0.0198		4.71	4.80	-1.9	30.0
d3-NMeFOSAA	Ave	0.4974	0.4929		4.96	5.00	-0.9	30.0
13C6 PFDA	Ave	1.009	1.075		1.33	1.25	6.6	30.0
d5-NEtFOSAA	Ave	0.4628	0.4756		5.14	5.00	2.8	30.0
13C8 PFOS	Ave	1.425	1.422		2.39	2.40	-0.2	30.0
13C7 PFUnA	Ave	0.9271	0.9301		1.25	1.25	0.3	30.0
13C2-PFDoDA	Ave	0.8228	0.7948		1.21	1.25	-3.4	30.0
13C8 FOSA	Ave	2.088	2.231		2.67	2.50	6.9	30.0
13C2 PFTeDA	Ave	0.4633	0.4506		1.22	1.25	-2.8	30.0
d7-N-MeFOSE-M	Ave	0.3433	0.3393		24.7	25.0	-1.2	30.0
d3-NMePFOSA	Ave	0.4096	0.3981		2.43	2.50	-2.8	30.0
d9-N-EtFOSE-M	Ave	0.4215	0.4224		25.1	25.0	0.2	30.0
d5-NEtPFOSA	Ave	0.4391	0.4300		2.45	2.50	-2.1	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-40.d
Lims ID: CCV 5_CAL4
Client ID:
Sample Type: CCV
Inject. Date: 08-Aug-2023 19:02:48 ALS Bottle#: 20005 Worklist Smp#: 35
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCV 5_CAL4
Misc. Info.: Plate: 1 Rack: 1 410-0090889-035
Operator ID: US19_USR_INS20263 Instrument ID: 30729
Sublist: chrom-PFAS_30729_1633*sub4

Method: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\PFAS_30729_1633.m
Limit Group: LC - 1633 ICAL
Last Update: 09-Aug-2023 09:53:37 Calib Date: 05-Aug-2023 11:25:28
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-11.d

Column 1 : Det: EXP1
Process Host: CTX1649

First Level Reviewer: QY4X Date: 09-Aug-2023 07:15:55
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4-PFBA										
216.80 > 171.90	2.932	2.932	0.0	1.000	1327150	9.95		99.5	78164	
* 3 13C3PFBA										
216.00 > 172.00	2.932	2.932	0.0		821595	5.00			1647	
1 PFBA										
212.80 > 168.90	2.932	2.942	-0.010	1.000	1092607	9.86		98.6	5233	
4 PFMPA										
229.00 > 84.90	3.163	3.167	-0.004	0.919	676918	4.79		95.7	46458	
5 3:3 FTCA										
241.00 > 177.00	3.163	3.167	-0.004	0.919	83037	11.7	Target=1.11	93.9	5859	
241.00 > 117.00	3.163	3.167	-0.004	0.919	78777		1.05(0.55-1.66)		2451	
D 7 13C5 PFPeA										
268.30 > 223.00	3.442	3.444	-0.002	0.918	390245	5.48		110	24514	
6 PFPA										
263.00 > 219.00	3.442	3.447	-0.005	1.000	678183	4.80	Target=1273.32	96.0	17988	
263.00 > 68.90	3.442	3.447	-0.005	1.000	488		1389.72(636.66-1909.99)		28.7	
8 PFMBA										
279.00 > 85.10	3.545	3.562	-0.017	1.030	560459	4.94		98.7	34620	
D 10 13C2-4:2FTS										
329.10 > 80.90	3.635	3.638	-0.003	0.828	64395	4.43	Target=0.35	94.5	3175	
329.10 > 309.00	3.624	3.638	-0.014	0.826	219030		0.29(0.18-0.53)	94.5	13673	
9 4:2FTS										
327.10 > 307.00	3.624	3.642	-0.018	0.997	354313	9.64	Target=1.40	103	21680	
327.10 > 80.90	3.624	3.642	-0.018	0.997	243079		1.46(0.70-2.10)		14649	
12 NFDHA										
295.00 > 201.00	3.718	3.734	-0.016	0.992	60446	4.77	Target=2.17	95.4	3996	
295.00 > 84.90	3.718	3.734	-0.016	0.992	33122		1.82(1.08-3.25)		2126	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 14 13C5 PFHxA										
318.00 > 273.00	3.749	3.750	-0.001	1.000	45208	2.61	Target=15.34	104	2962	
318.00 > 120.30	3.738	3.750	-0.012	0.997	4520		10.00(7.67-23.01)	104	284	
* 15 13C2 PFHxA										
315.10 > 270.00	3.749	3.750	-0.001		247681	2.50	Target=103.53		15496	
315.10 > 119.40	3.738	3.750	-0.012		1626		152.33(51.76-155.29)		128	
13 PFHxA										
313.00 > 269.00	3.749	3.755	-0.006	1.000	244968	2.49	Target=13.63	99.8	9300	
313.00 > 118.90	3.749	3.755	-0.006	1.000	17292		14.17(6.82-20.45)		1119	
D 18 13C3 PFBS										
302.10 > 79.90	3.854	3.856	-0.002	0.878	453119	2.21	Target=6.99	94.8	27838	
302.10 > 98.90	3.843	3.856	-0.013	0.875	73089		6.20(3.50-10.49)	94.8	4660	
17 PFBS										
298.70 > 79.90	3.854	3.860	-0.006	1.000	263302	2.24	Target=3.41	101	16315	
298.70 > 98.80	3.854	3.860	-0.006	1.000	92152		2.86(1.70-5.11)		5631	
16 5:3 FTCA										
341.00 > 237.10	3.843	3.860	-0.017	1.025	1724068	59.3	Target=2.68	94.9	102954	
341.00 > 217.00	3.843	3.860	-0.017	1.025	697208		2.47(1.34-4.01)		43181	
D 20 13C3 HFPO-DA										
286.90 > 168.90	3.865	3.867	-0.002	1.031	1200440	11.0	Target=29.00	110	73699	
286.90 > 184.90	3.854	3.867	-0.013	1.028	42699		28.11(14.50-43.50)	110	2675	
19 HFPO-DA										
284.90 > 168.90	3.865	3.872	-0.007	1.000	787984	9.59	Target=17.67	95.9	2125	
284.90 > 184.90	3.865	3.872	-0.007	1.000	41432		19.02(8.84-26.51)		2480	
23 PFEESA										
314.80 > 134.90	3.995	4.012	-0.017	1.066	2255795	4.35	Target=14.15	97.7	106491	
314.80 > 82.90	3.995	4.012	-0.017	1.066	154774		14.57(7.08-21.23)		4840	
D 25 13C4 PFHpA										
367.10 > 322.00	4.006	4.018	-0.012	1.069	542233	2.61		104	32581	
24 PFHpA										
363.10 > 319.00	4.006	4.022	-0.016	1.000	498770	2.44	Target=3.62	97.5	22588	
363.10 > 169.00	4.006	4.022	-0.016	1.000	137267		3.63(1.81-5.44)		8583	
26 ADONA										
376.90 > 250.90	4.093	4.111	-0.018	1.059	2135222	9.20	Target=12.84	97.4	96325	
376.90 > 84.80	4.093	4.111	-0.018	1.059	179653		11.89(6.42-19.27)		11275	
D 29 13C2-6:2FTS										R
429.10 > 80.90	4.116	4.129	-0.013	0.938	42007	5.60	Target=0.12	118	2575	R
429.10 > 409.00	4.116	4.129	-0.013	0.938	193293		0.22(0.06-0.18)	118	11520	
27 6:2FTS										
427.10 > 407.00	4.116	4.132	-0.016	1.000	315067	7.82	Target=1.71	82.3	19057	
427.10 > 80.90	4.116	4.132	-0.016	1.000	185513		1.70(0.85-2.56)		11028	
28 PFPeS										
349.10 > 79.90	4.138	4.155	-0.017	0.941	494762	2.51	Target=3.85	107	29946	
349.10 > 98.90	4.138	4.155	-0.017	0.941	131854		3.75(1.93-5.78)		8175	
32 PFOA										
413.00 > 369.00	4.248	4.250	-0.002	1.000	303495	2.50	Target=2.36	100	324	
413.00 > 169.00	4.248	4.250	-0.002	1.000	126515		2.40(1.18-3.53)		257	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 30 13C4 PFOA										
417.10 > 172.00	4.248	4.261	-0.013		26965	2.50			1753	
D 31 13C8 PFOA										
421.10 > 376.00	4.248	4.261	-0.013	1.000	613299	2.39		95.7	39035	
* 35 18O2 PFHxS										
403.00 > 83.90	4.389	4.401	-0.012		468715	2.37			31758	
D 36 13C3 PFHxS										
402.10 > 79.90	4.399	4.411	-0.012	1.002	473476	2.12	Target=3.90	89.7	31048	
402.10 > 98.80	4.389	4.411	-0.022	1.000	129611		3.65(1.95-5.85)	89.7	8797	
34 PFHxS										
398.70 > 79.90	4.399	4.413	-0.014	1.000	258277	2.45	Target=3.39	107	1144	
398.70 > 98.90	4.399	4.413	-0.014	1.000	69403		3.72(1.69-5.08)		122	
33 7:3 FTCA										
441.00 > 316.90	4.418	4.434	-0.016	1.179	1254470	60.9	Target=0.66	97.4	81138	
441.00 > 336.90	4.418	4.434	-0.016	1.179	2012271		0.62(0.33-1.00)		132278	
D 38 13C9 PFNA										
472.10 > 427.00	4.480	4.493	-0.013	1.000	161403	1.28		102	10573	
* 37 13C5 PFNA										
468.00 > 423.00	4.480	4.493	-0.013		149766	1.25			7544	
39 PFNA										
463.00 > 419.00	4.480	4.493	-0.013	1.000	269775	2.49	Target=5.25	99.5	544	
463.00 > 219.00	4.480	4.493	-0.013	1.000	53571		5.04(2.63-7.88)		302	
D 41 13C2-8:2FTS										
529.10 > 80.90	4.599	4.601	-0.002	1.048	18842	4.71	Target=0.14	98.1	1346	
529.10 > 509.00	4.589	4.601	-0.012	1.045	127949		0.15(0.07-0.21)	98.1	8540	
40 8:2FTS										
527.10 > 507.00	4.589	4.614	-0.025	0.998	218653	9.92	Target=1.21	103	14755	
527.10 > 80.80	4.589	4.614	-0.025	0.998	195571		1.12(0.60-1.81)		13425	
42 PFHpS										
449.00 > 79.90	4.669	4.685	-0.016	0.932	386605	2.31	Target=3.73	96.8	25045	
449.00 > 98.80	4.659	4.685	-0.026	0.930	109981		3.52(1.86-5.59)		7172	
D 44 d3-NMeFOSAA										
573.20 > 419.00	4.710	4.723	-0.013	0.940	287685	4.95		99.1	11574	
43 NMeFOSAA										
570.10 > 419.00	4.710	4.725	-0.015	1.000	122603	2.27	Target=1.77	90.9	31695	
570.10 > 483.00	4.710	4.725	-0.015	1.000	75873		1.62(0.89-2.66)		425	
* 46 13C2 PFDA										
515.10 > 470.10	4.765	4.778	-0.013		199898	1.25			13878	
D 47 13C6 PFDA										
519.10 > 474.10	4.765	4.778	-0.013	1.000	214814	1.33		107	14853	
45 PFDA										
512.90 > 469.00	4.756	4.781	-0.025	0.998	290287	2.38	Target=6.01	95.0	9944	
512.90 > 219.00	4.756	4.781	-0.025	0.998	47941		6.06(3.00-9.01)		3294	
D 49 d5-NEtFOSAA										
589.20 > 419.00	4.862	4.874	-0.012	0.970	277593	5.14		103	14063	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
48 NEtFOSAA										
584.20 > 419.10	4.862	4.886	-0.024	1.000	90622	2.18	Target=1.68	87.3	294	
584.20 > 526.00	4.862	4.886	-0.024	1.000	60818		1.49(0.84-2.53)		14378	
* 52 13C4 PFOS										
502.80 > 79.90	5.012	5.033	-0.021		279579	2.40	Target=4.18		8262	
502.80 > 98.90	5.003	5.033	-0.030		78329		3.57(2.09-6.27)		5502	
D 51 13C8 PFOS										
507.10 > 79.90	5.012	5.033	-0.021	1.000	397486	2.39	Target=3.96	99.8	10260	
507.10 > 98.90	5.003	5.033	-0.030	0.998	101884		3.90(1.98-5.94)	99.8	5228	
50 PFOS										
498.90 > 79.90	5.012	5.044	-0.032	1.000	345806	2.26	Target=4.55	97.5	1124	
498.90 > 98.80	5.012	5.044	-0.032	1.000	75242		4.60(2.28-6.83)		280	
D 54 13C7 PFUnA										
570.00 > 525.10	5.141	5.170	-0.029	1.079	185927	1.25		100	12857	
53 PFUnA										
563.10 > 519.00	5.141	5.180	-0.039	1.000	335737	2.55	Target=11.29	102	13797	
563.10 > 269.10	5.141	5.180	-0.039	1.000	28951		11.60(5.64-16.93)		2060	
55 9ClFOS										
530.80 > 351.00	5.353	5.404	-0.051	1.385	2097121	9.81	Target=3.20	105	137574	
532.80 > 353.00	5.353	5.404	-0.051	1.385	652349		3.21(1.60-4.81)		43043	
56 PFNS										
548.80 > 79.90	5.471	5.506	-0.035	1.092	280812	2.50	Target=4.70	104	19236	
548.80 > 98.80	5.464	5.506	-0.042	1.090	64502		4.35(2.35-7.05)		3548	
D 58 PFDoDA										
615.10 > 570.00	5.623	5.646	-0.023	1.180	158887	1.21		96.6	7155	
57 PFDoA										
613.10 > 569.00	5.616	5.654	-0.038	0.999	309096	2.58	Target=16.23	103	16539	
613.10 > 319.00	5.616	5.654	-0.038	0.999	18409		16.79(8.12-24.35)		1411	
60 PFOSA										
498.10 > 77.90	5.912	5.915	-0.003	1.000	674597	2.51	Target=58.34	100	13110	
498.10 > 478.00	5.912	5.915	-0.003	1.000	12271		54.97(29.17-87.51)		315	
D 59 13C8 FOSA										
506.10 > 77.80	5.912	5.923	-0.011	1.180	651082	2.67		107	44316	
61 PFDS										
599.00 > 79.90	5.920	5.965	-0.045	1.181	435203	2.46	Target=4.36	102	30280	
599.00 > 98.80	5.920	5.965	-0.045	1.181	96605		4.50(2.18-6.54)		5418	
62 PFTrDA										
663.00 > 619.00	6.063	6.099	-0.036	0.938	256383	2.57	Target=3.59	103	19051	
663.00 > 168.90	6.063	6.099	-0.036	0.938	64744		3.96(1.79-5.38)		5052	
63 11ClFOS										
630.90 > 450.90	6.250	6.288	-0.038	1.617	2661817	9.31	Target=5.30	98.5	169645	
632.90 > 452.90	6.241	6.288	-0.047	1.615	508821		5.23(2.65-7.95)		32732	
D 65 13C2 PFTeDA										
715.20 > 670.00	6.461	6.485	-0.024	1.356	90066	1.22		97.2	6041	
64 PFTeDA										
713.10 > 669.00	6.461	6.498	-0.037	1.000	213199	2.59	Target=3.31	103	13473	
713.10 > 168.90	6.461	6.498	-0.037	1.000	65098		3.28(1.66-4.97)		4264	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 67 d7-N-Me-FOSE										
623.20 > 58.90	6.683	6.692	-0.009	1.333	990252	24.7		98.8	40706	
68 N-MeFOSE-M										
616.10 > 58.90	6.707	6.704	0.003	1.004	1102276	25.0		100	12820	
66 PFDoS										
699.10 > 79.90	6.683	6.729	-0.046	1.333	432270	2.34	Target=4.96	96.6	24336	
699.10 > 98.80	6.683	6.729	-0.046	1.333	82774		5.22(2.48-7.44)		4673	
D 69 d3-NMePFOSA										
515.00 > 219.00	6.826	6.823	0.003	1.362	116192	2.43		97.2	6500	
70 NMeFOSA										
511.90 > 219.00	6.826	6.823	0.003	1.000	93748	2.54	Target=0.78	102	1371	
511.90 > 169.00	6.826	6.823	0.003	1.000	116725		0.80(0.39-1.17)		1297	
D 71 d9-N-EtFOSE										
639.20 > 58.90	6.960	6.957	0.003	1.389	1232860	25.1		100	37899	
72 N-EtFOSE-M										
630.00 > 58.90	6.980	6.978	0.002	1.003	1125160	24.3		97.1	22338	
D 73 d5-NEtPFOSA										
531.10 > 219.00	7.082	7.080	0.002	1.413	125499	2.45		97.9	7875	
74 N-EtFOSA-M										
526.00 > 219.00	7.082	7.090	-0.008	1.000	121424	2.51	Target=3.00	100	1579	
526.00 > 169.00	7.082	7.090	-0.008	1.000	39393		3.08(1.50-4.50)		1008	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Reagents:

PFC_STD4_1633_00012 Amount Added: 1.00 Units: mL

Report Date: 09-Aug-2023 09:53:43 Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-40.d

Injection Date: 08-Aug-2023 19:02:48 Instrument ID: 30729

Lims ID: CCV 5_CAL4

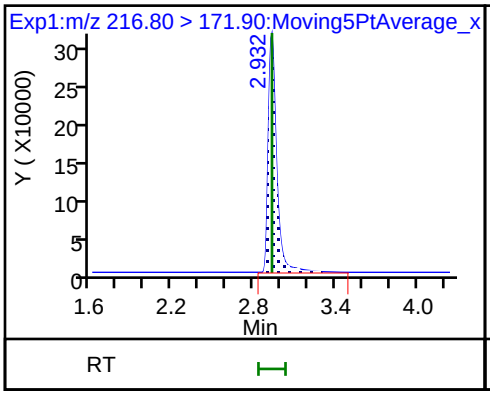
Client ID:

Operator ID: US19_USR_INS20263 ALS Bottle#: 20005 Worklist Smp#: 35

Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: PFAS_30729_1633 Limit Group: LC - 1633 ICAL

D 2 13C4-PFBA



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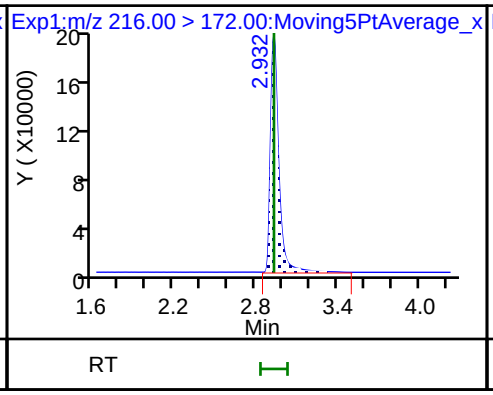

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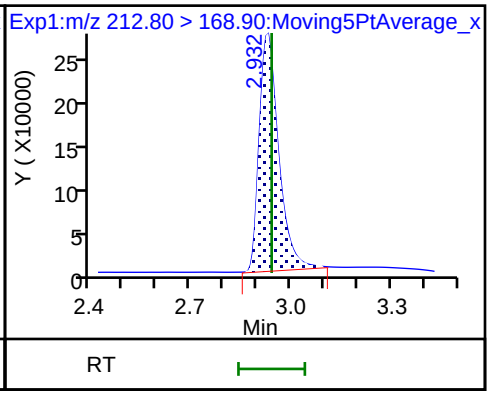

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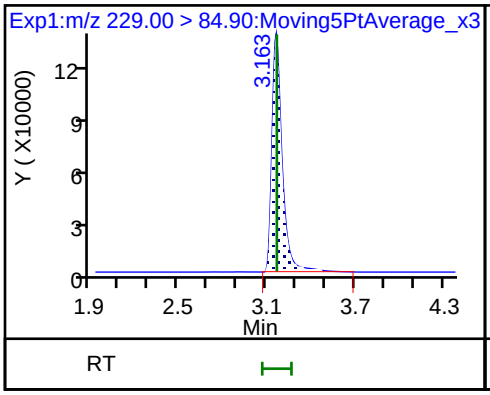

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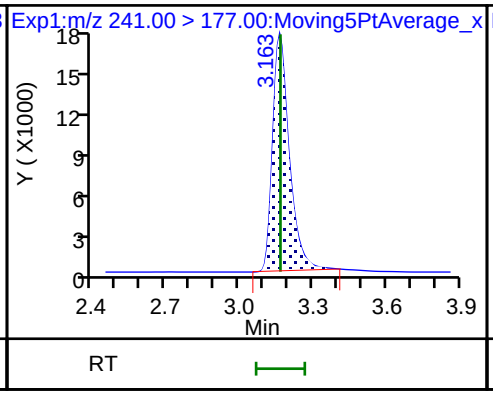

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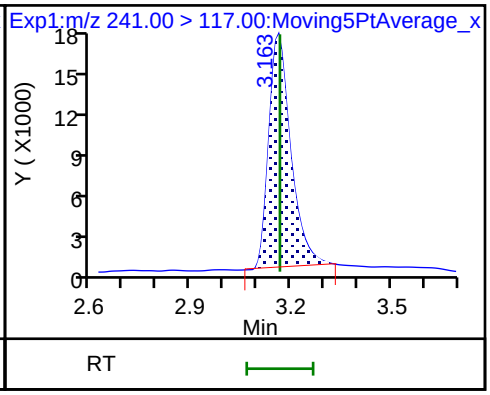

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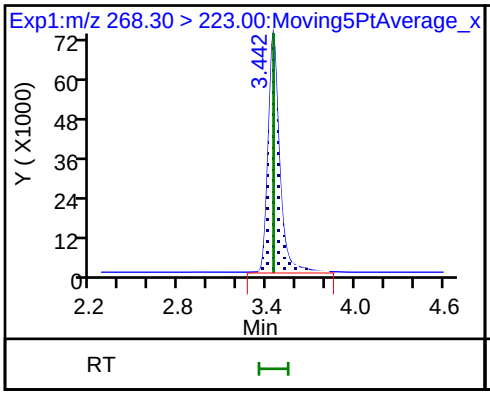
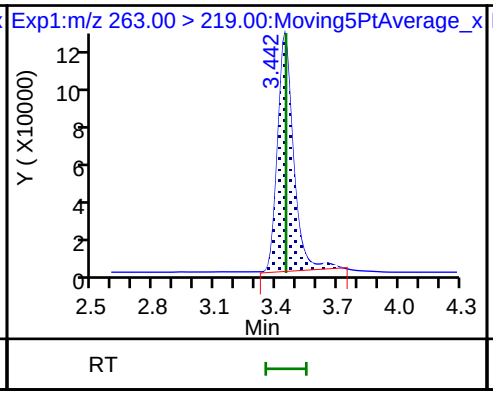


6 PFPA



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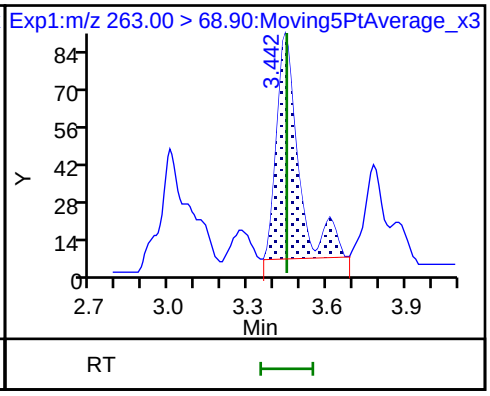
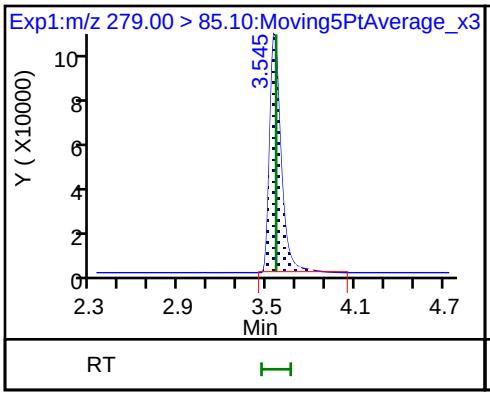


8 PFMBA



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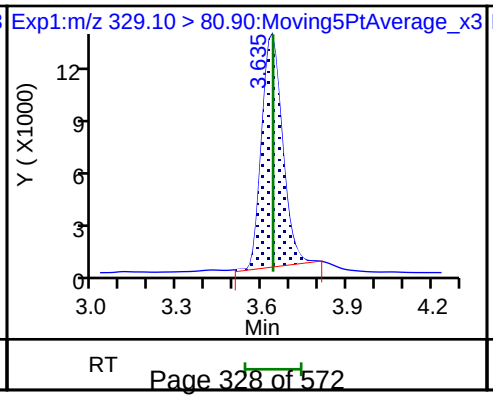

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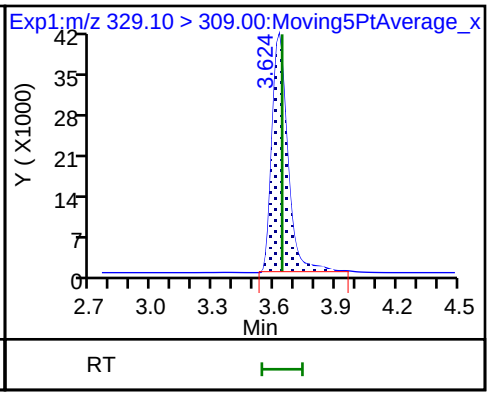

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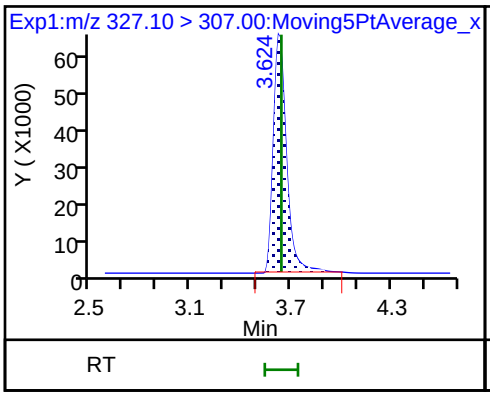

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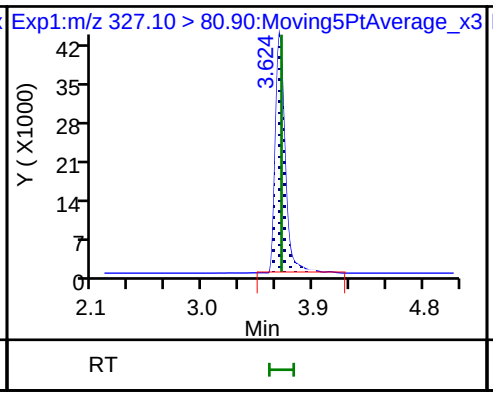

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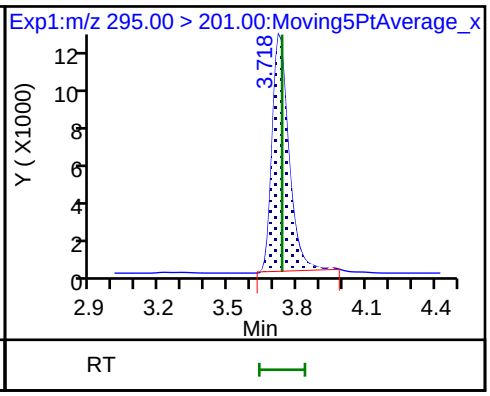
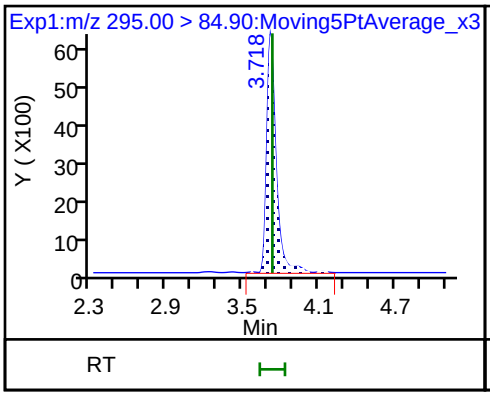


12 NFDHA



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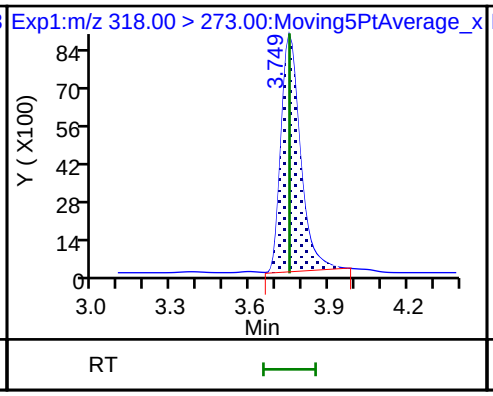

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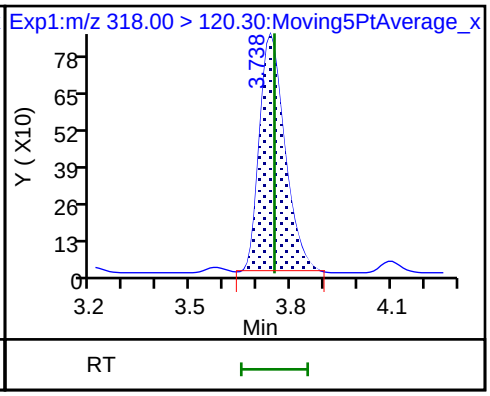

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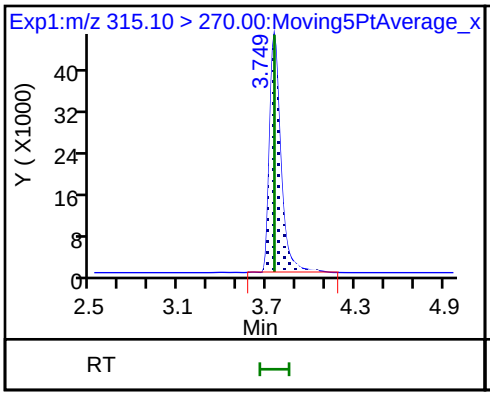

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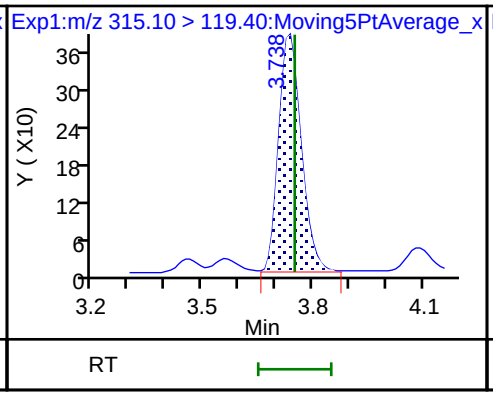

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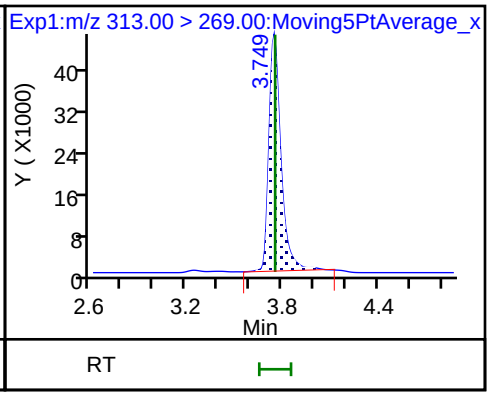

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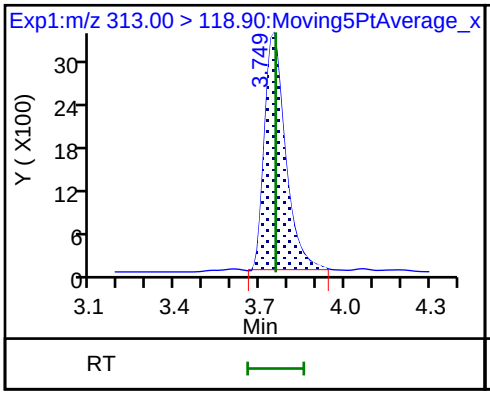

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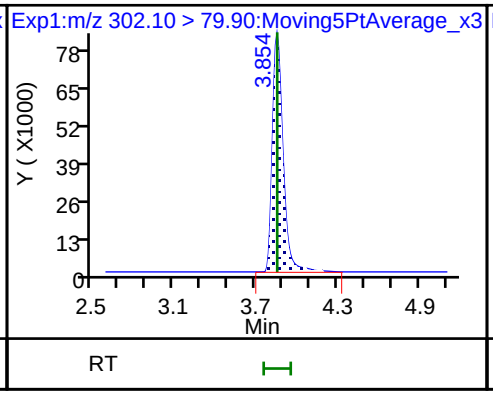

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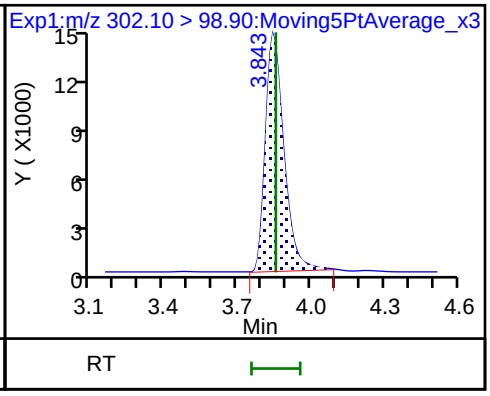

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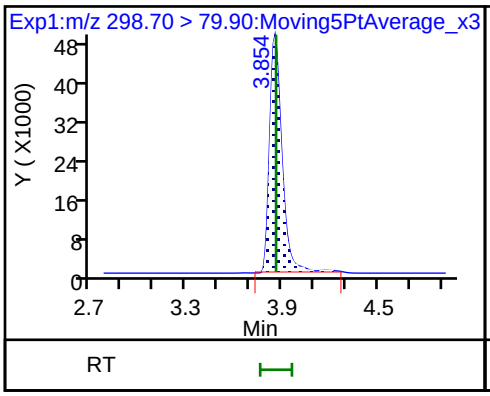

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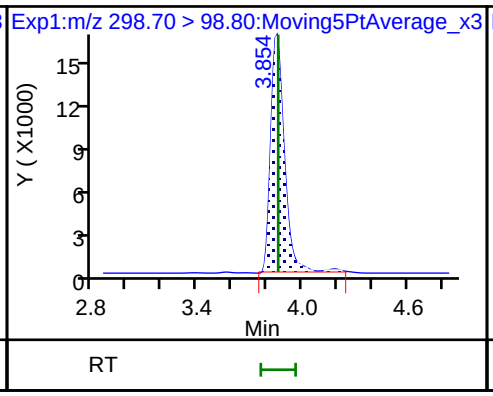

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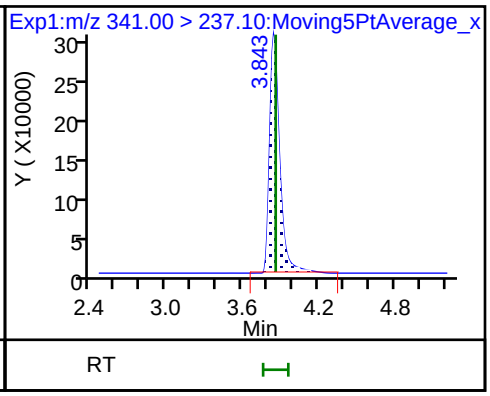

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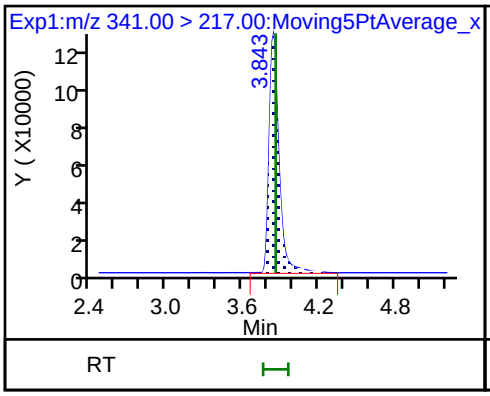

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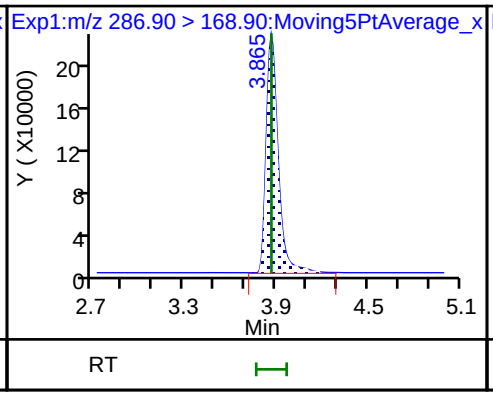

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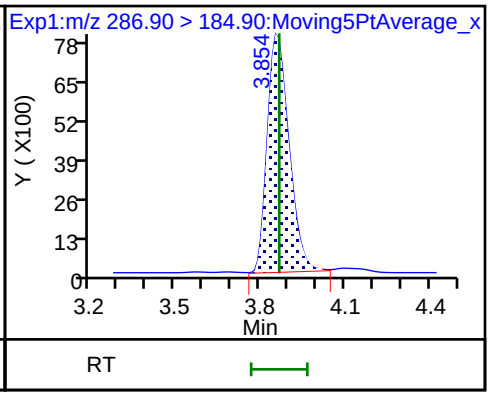

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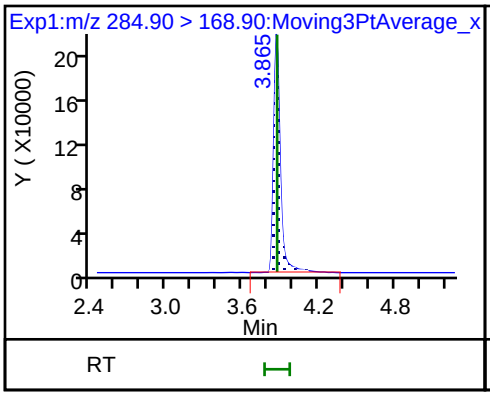
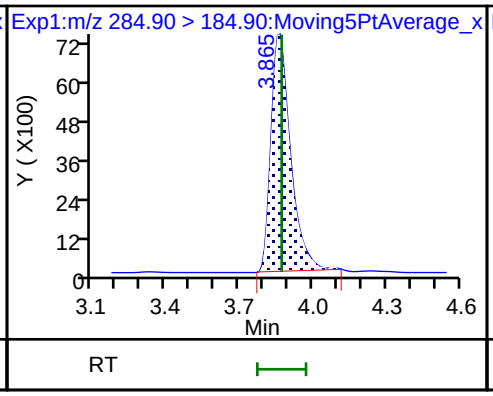
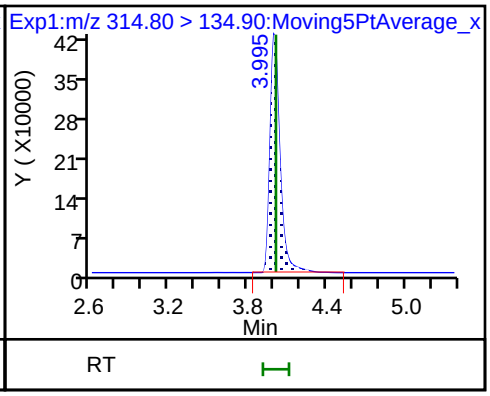


19 HFPO-DA



23 PFEESA



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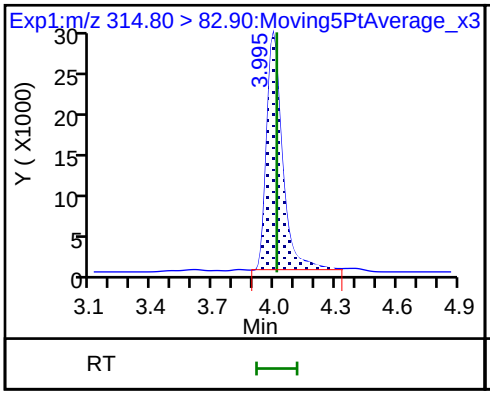
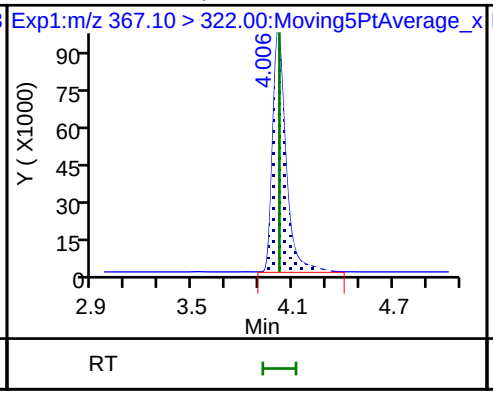


D 25 13C4 PFHpA



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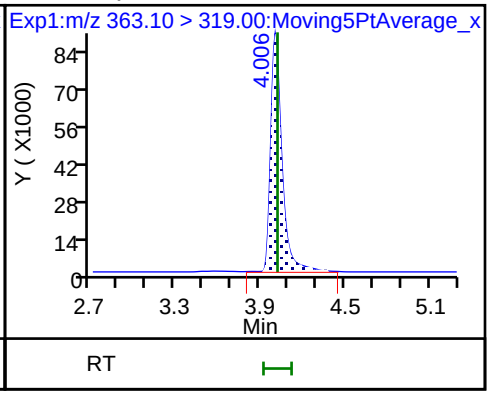

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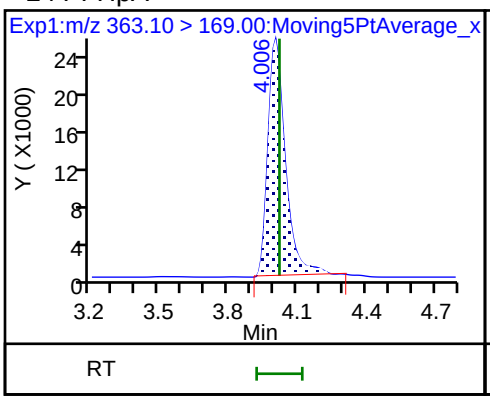
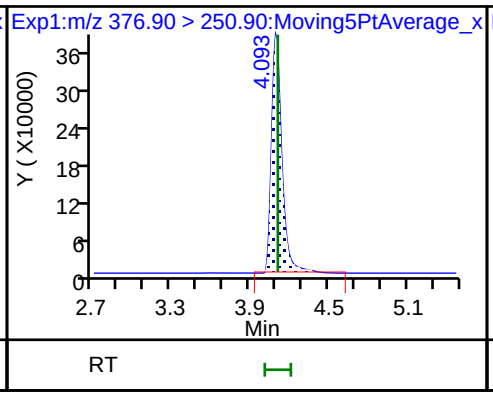


26 ADONA



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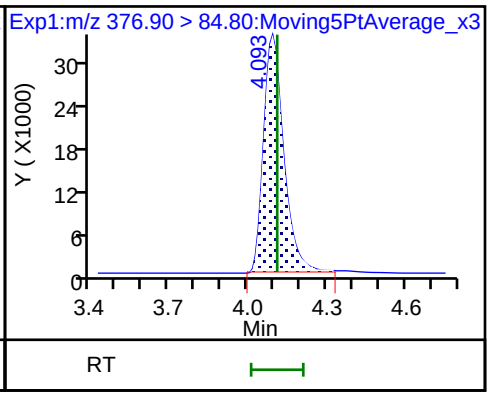
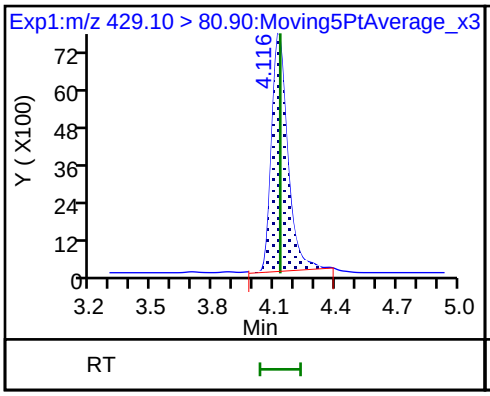


D 29 13C2-6:2FTS



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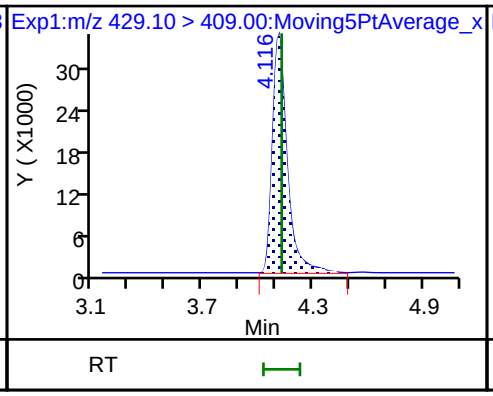

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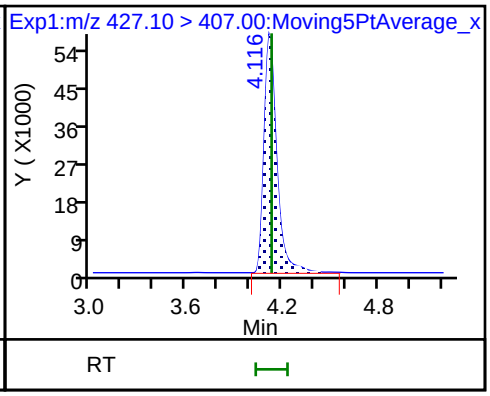

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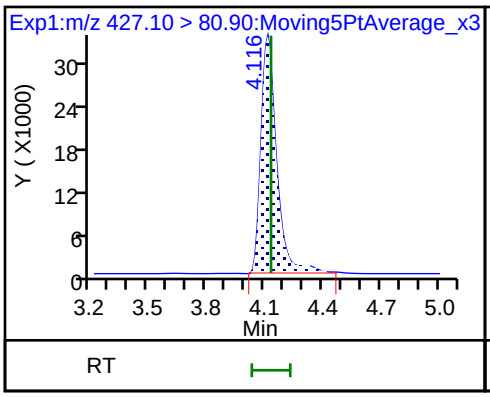
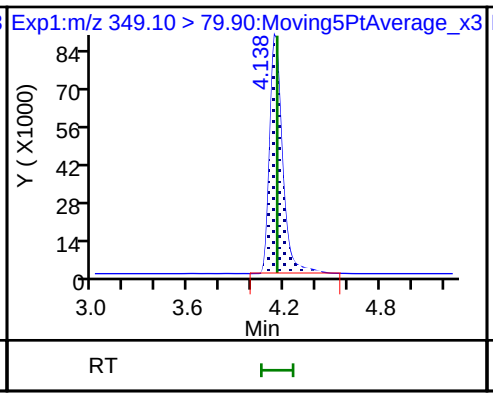


28 PFPeS



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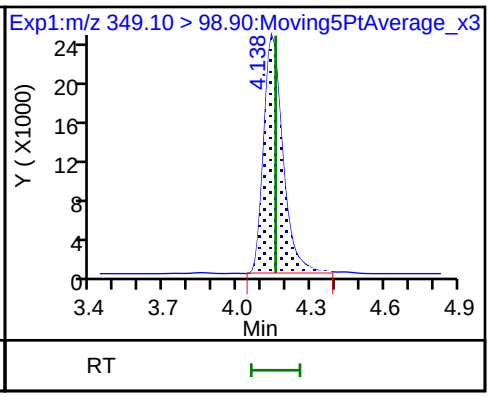
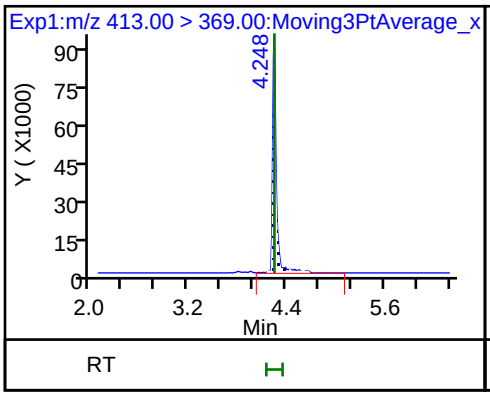


32 PFOA



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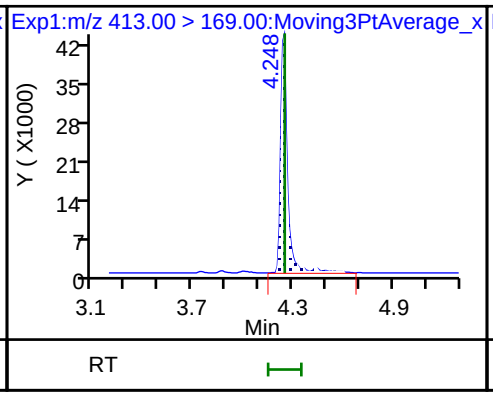

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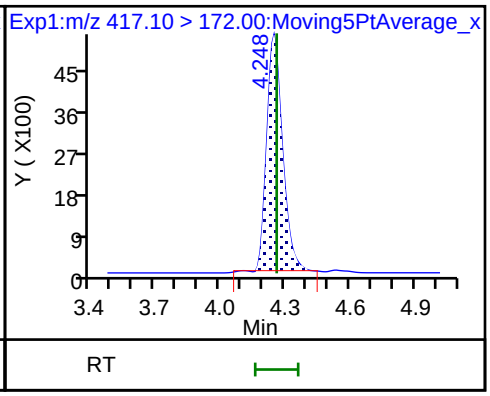

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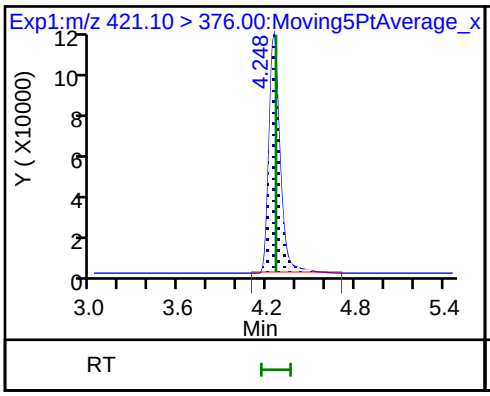

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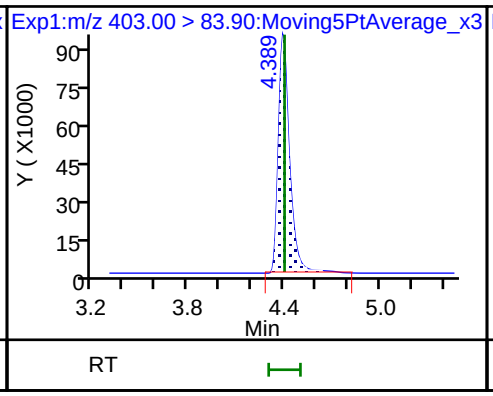

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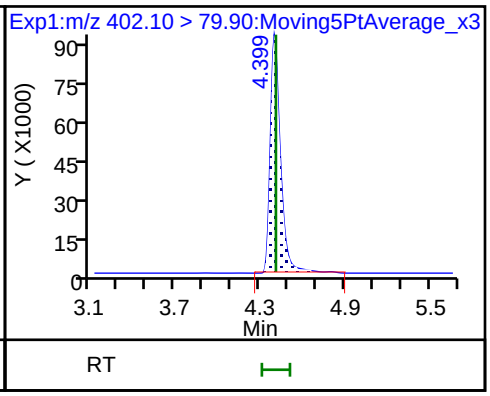

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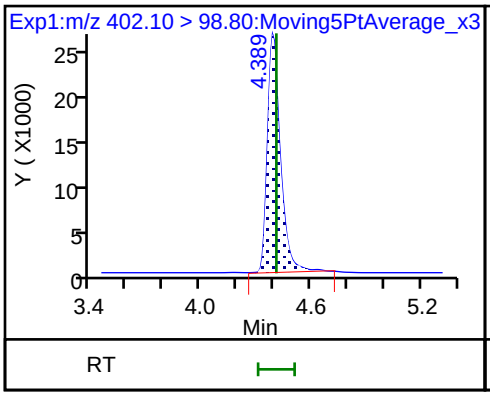

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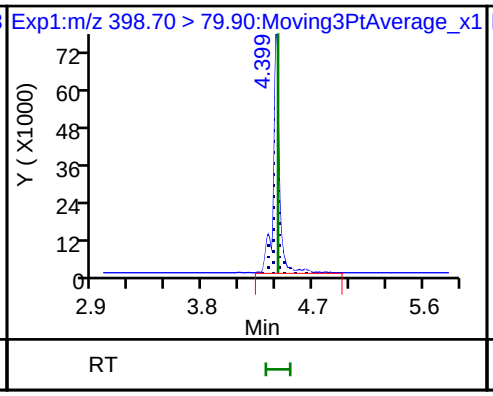

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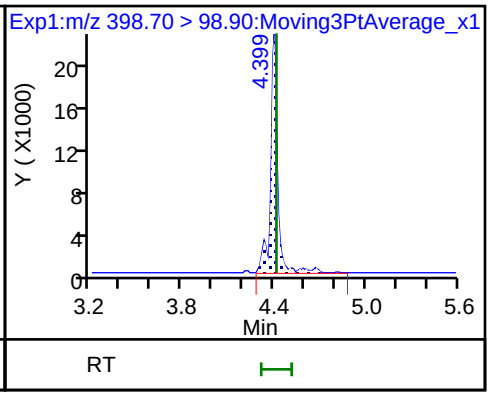
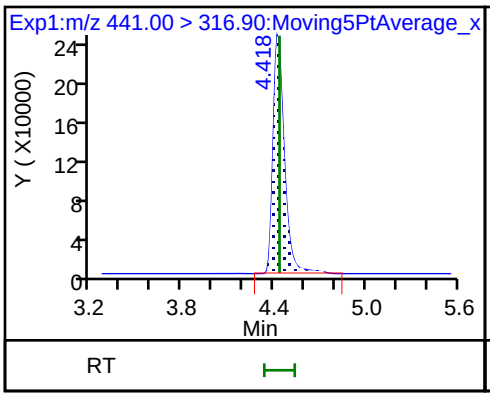


33 7:3 FTCA



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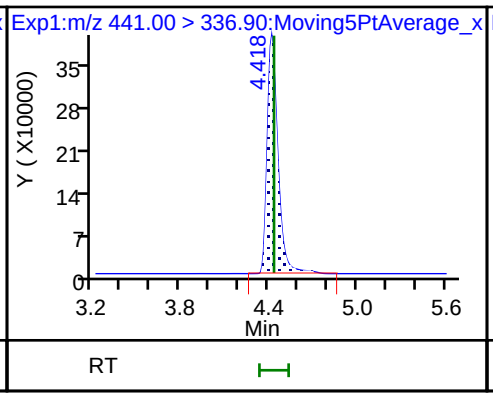
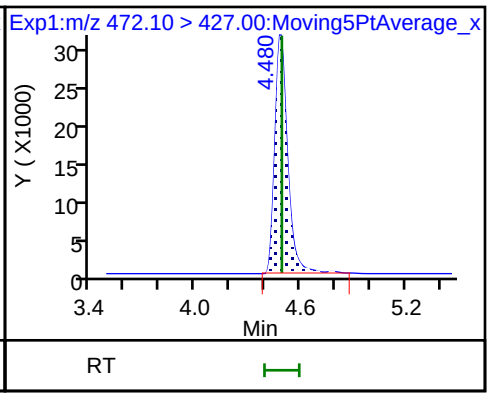


D 38 13C9 PFNA



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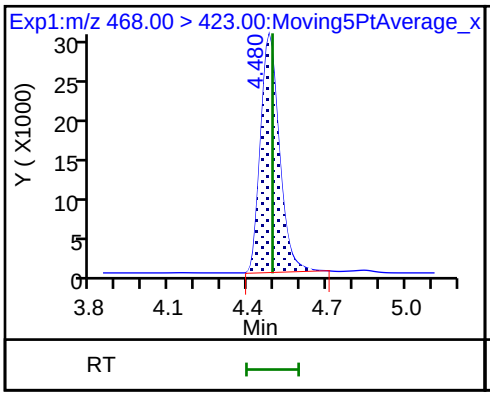

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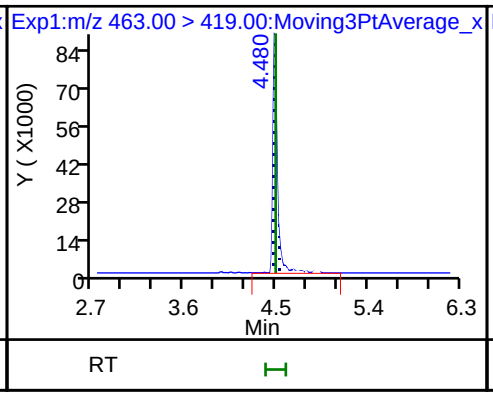

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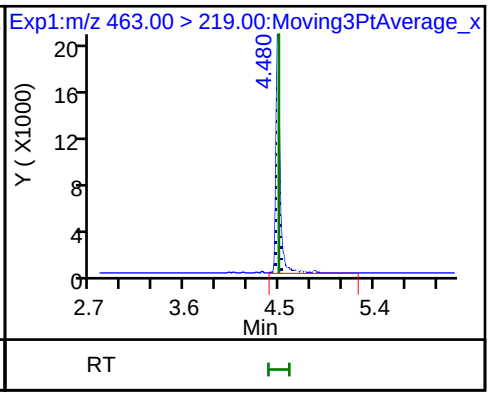

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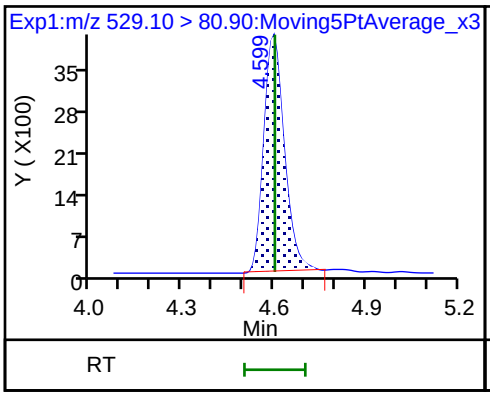

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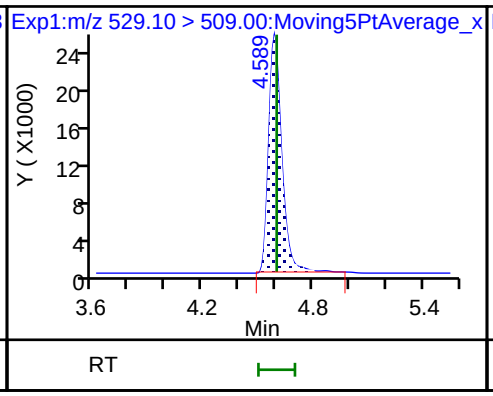

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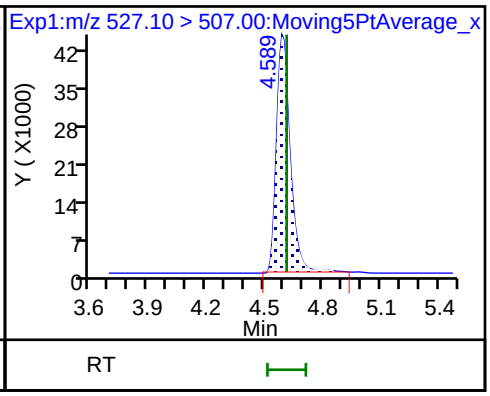

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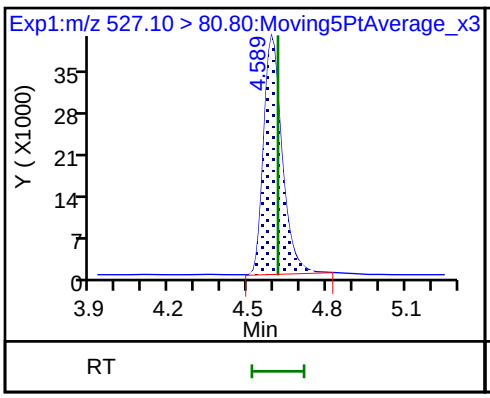

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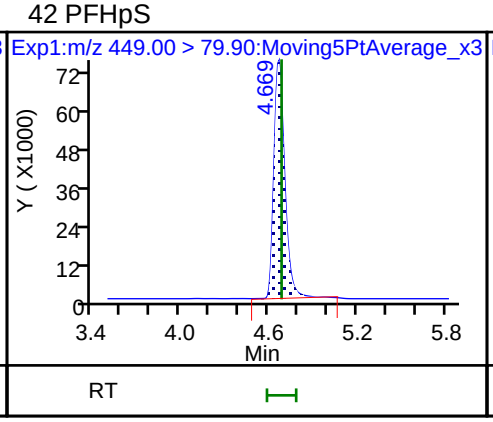

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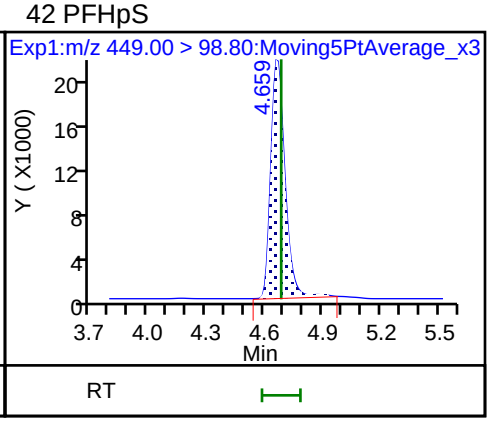
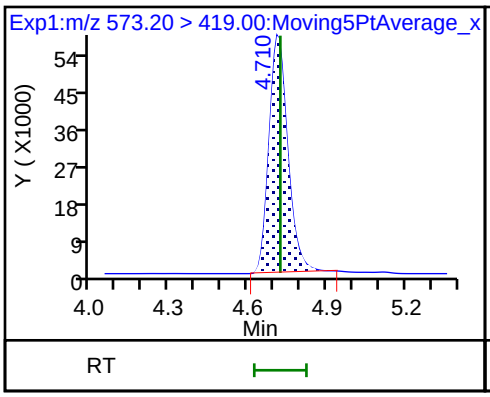


D 44 d3-NMeFOSAA



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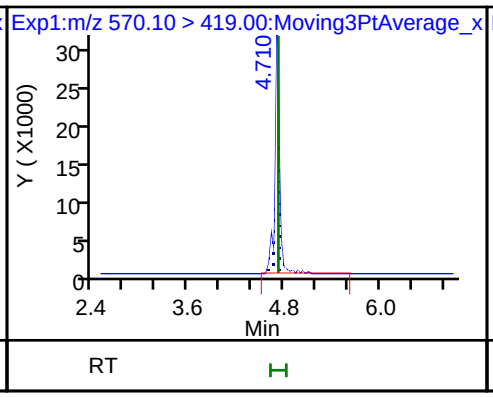

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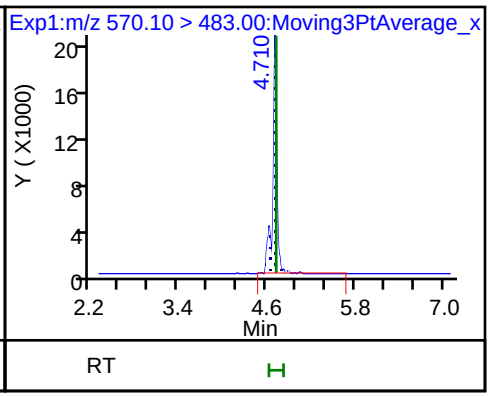

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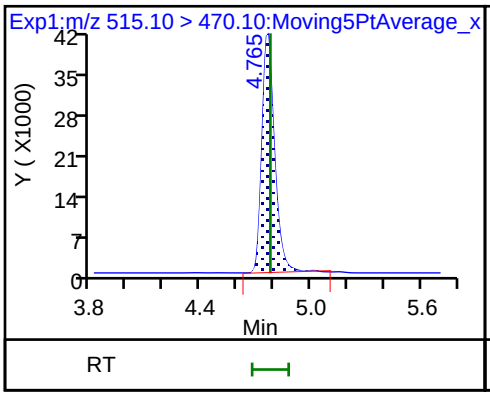

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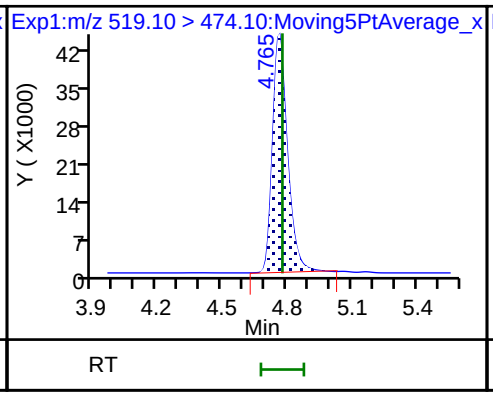
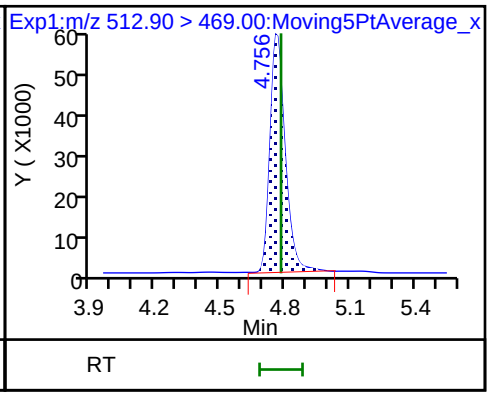


45 PFDA



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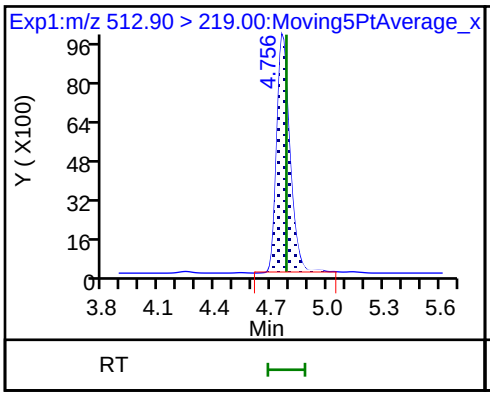
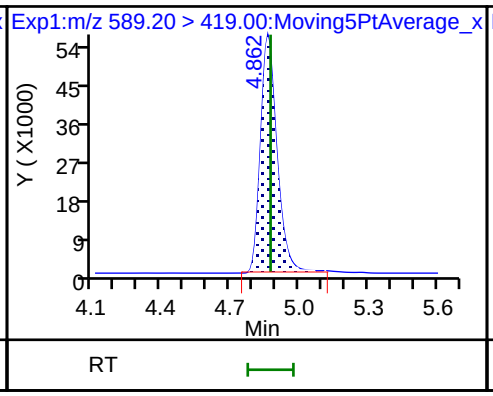


D 49 d5-NEtFOSAA



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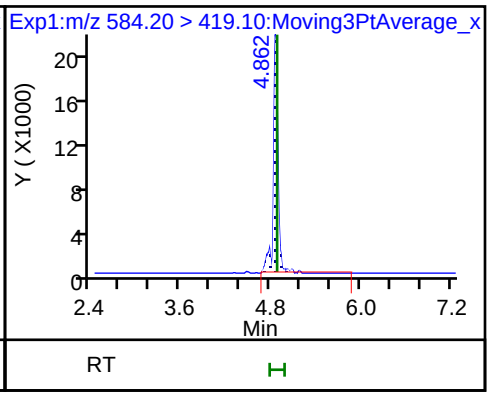

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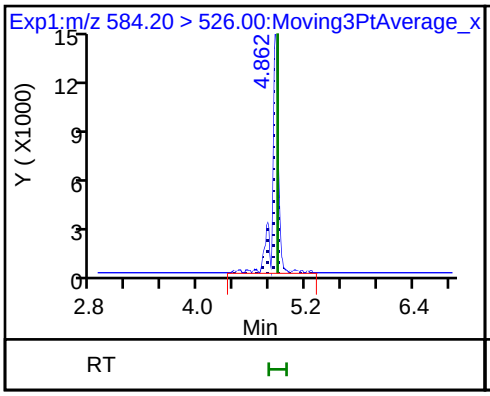

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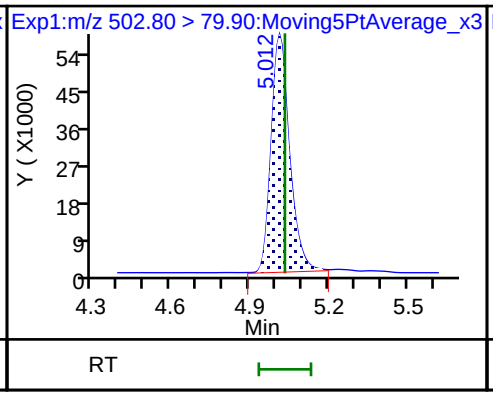

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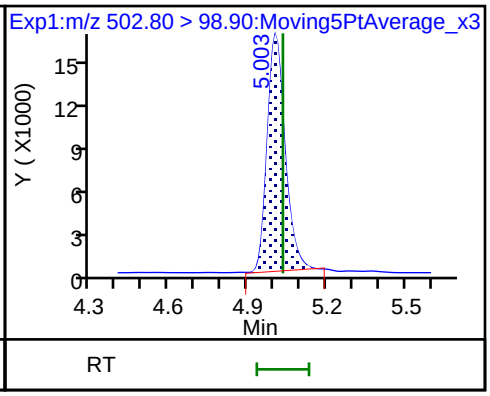

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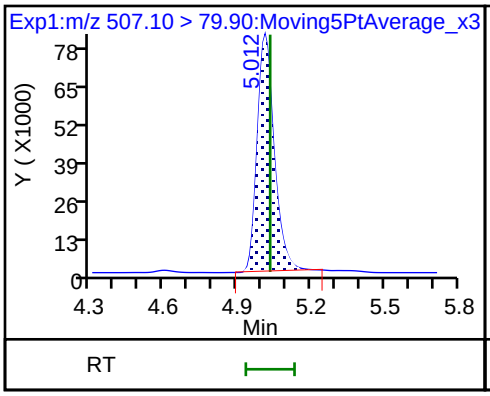

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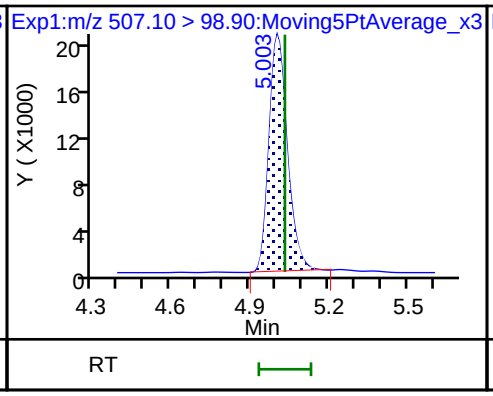
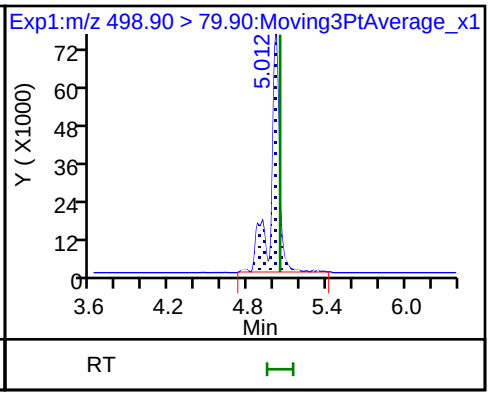


50 PFOS



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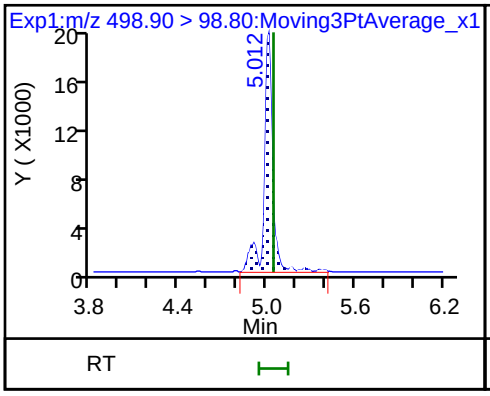

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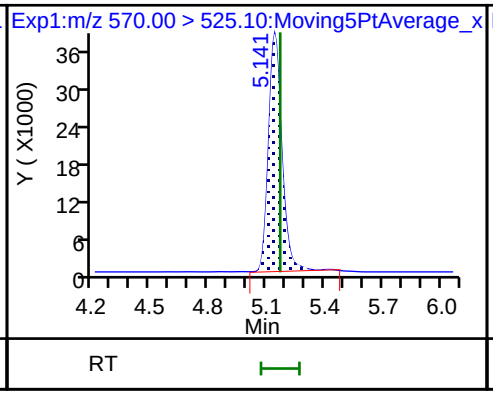
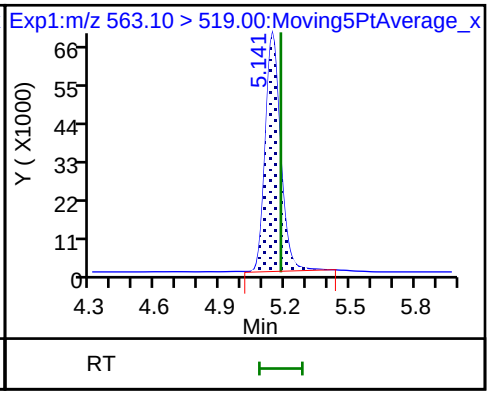


53 PFUnA



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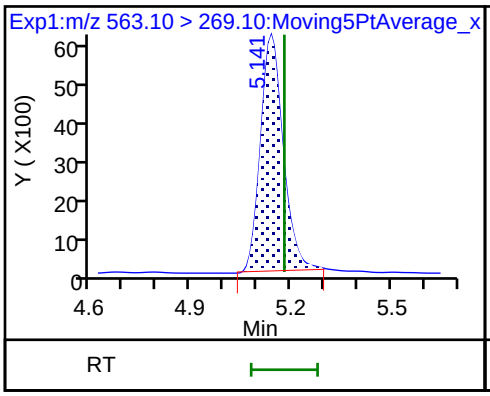
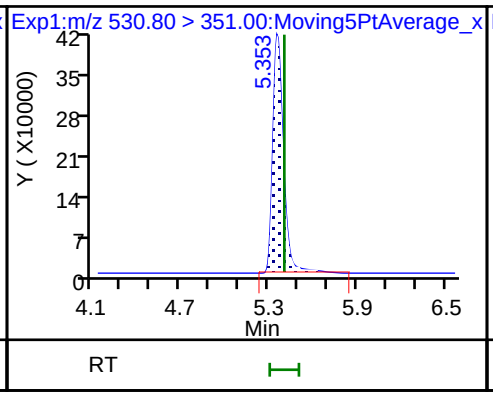
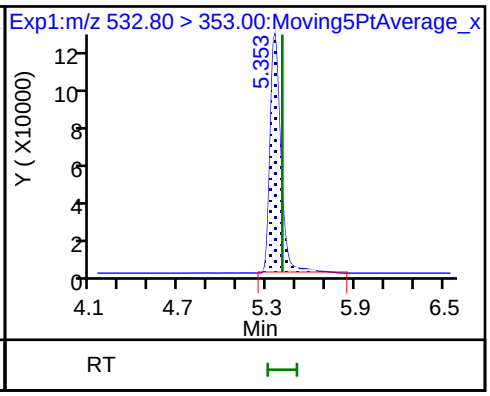


55 9ClFOS



55 9ClFOS



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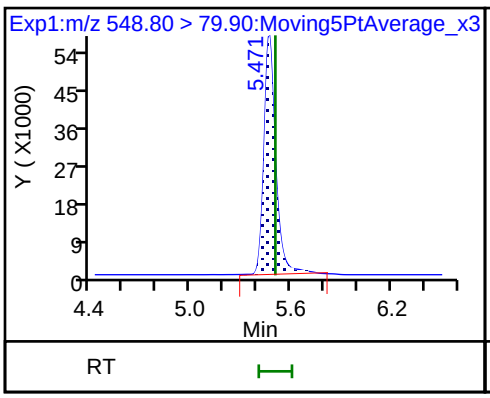
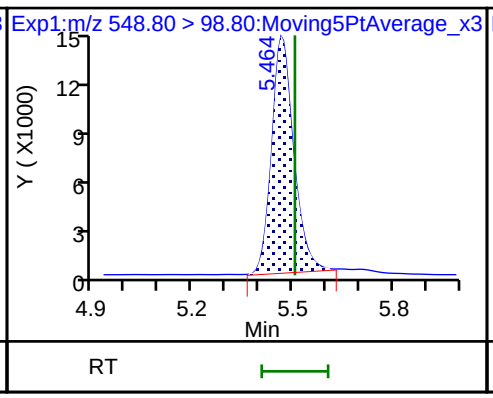


56 PFNS



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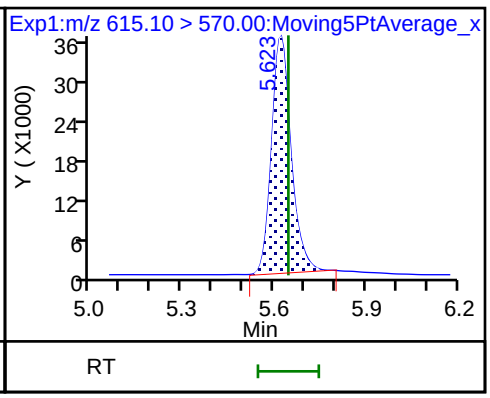

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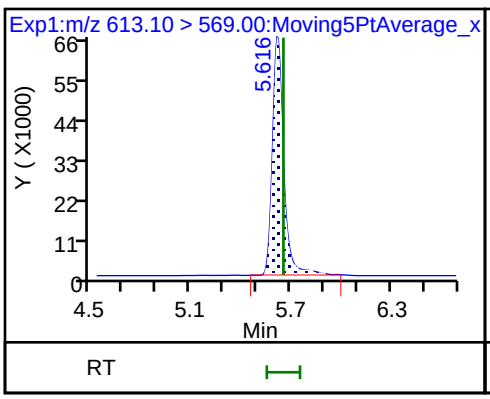

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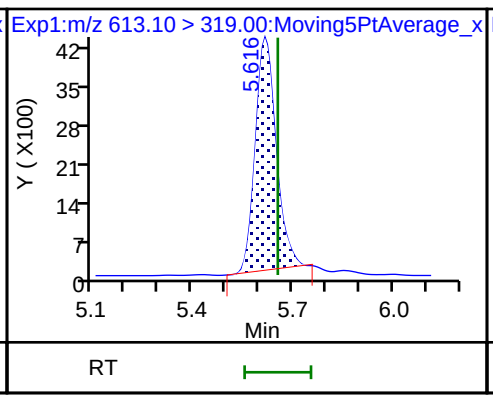

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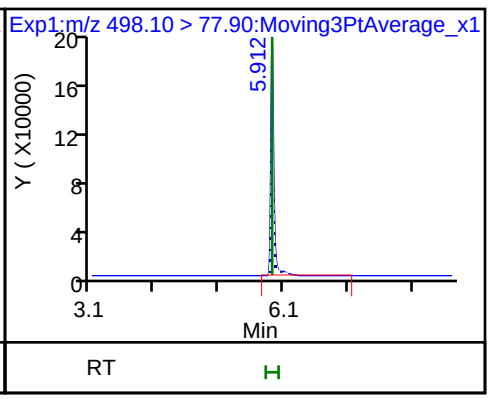

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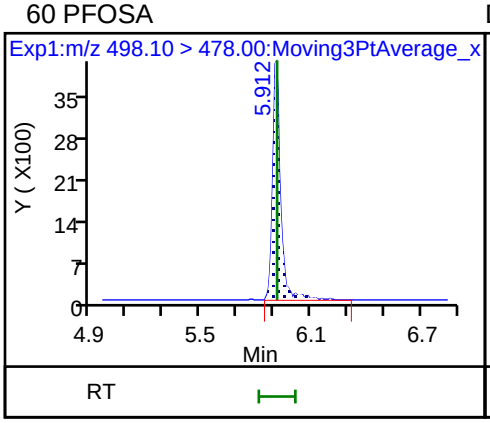
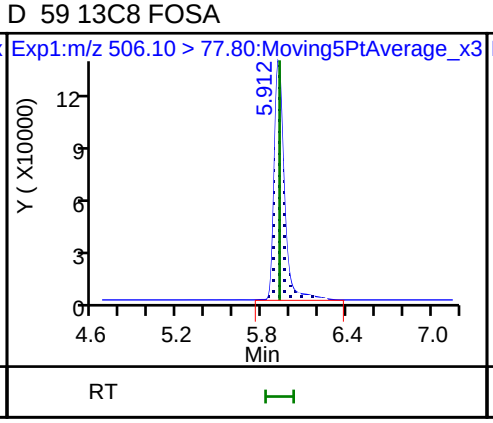
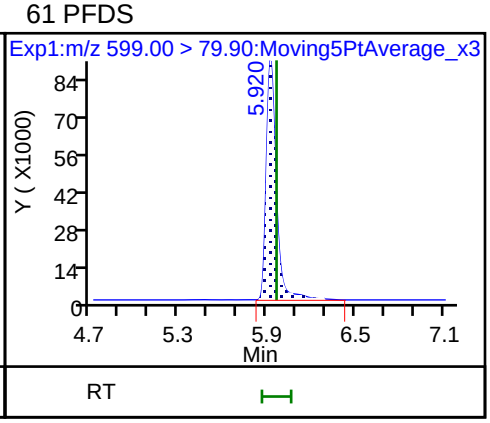


D 59 13C8 FOSA



61 PFDS



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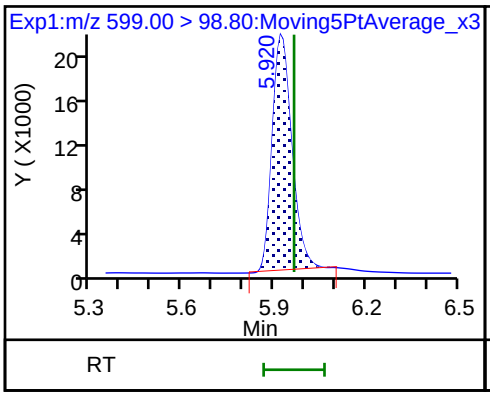

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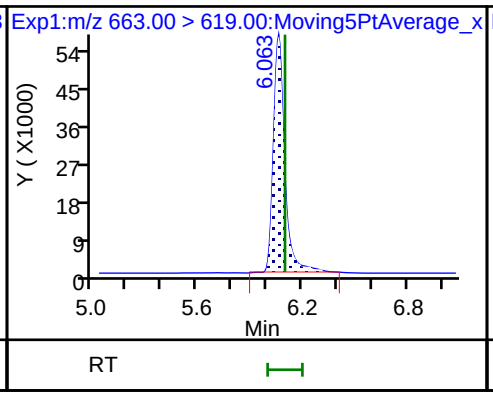

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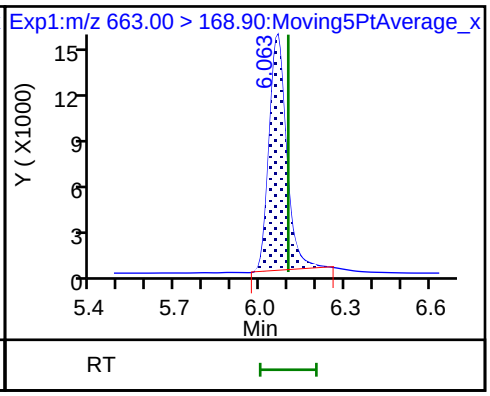

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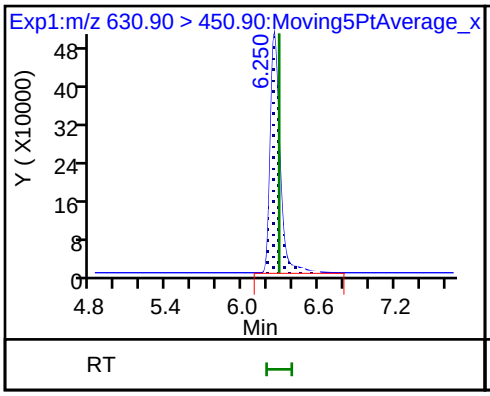

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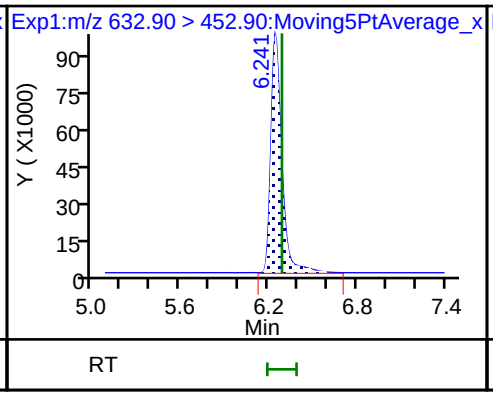

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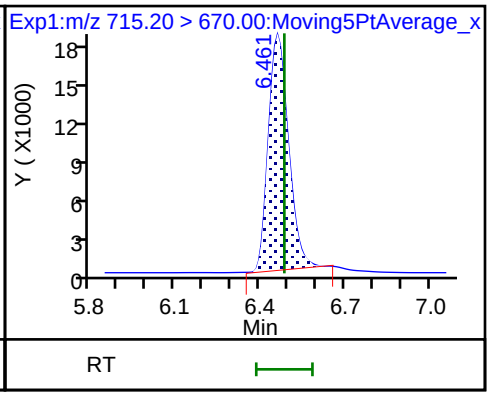

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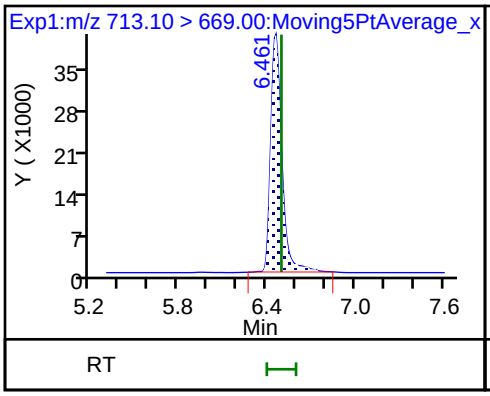

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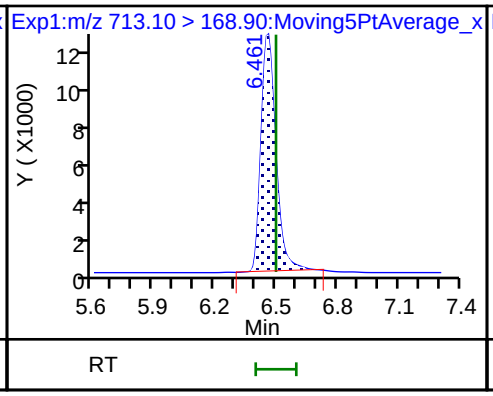
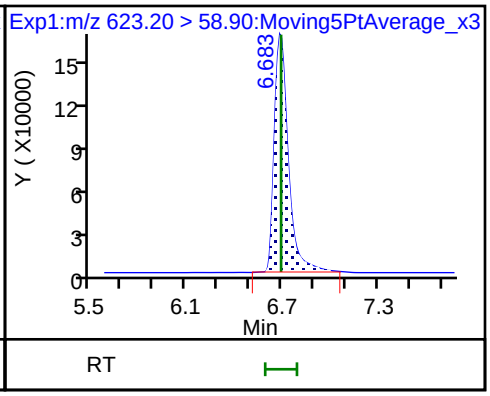
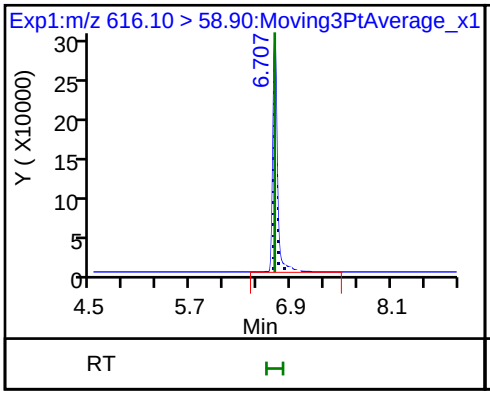


D 67 d7-N-Me-FOSE



68 N-MeFOSE-M



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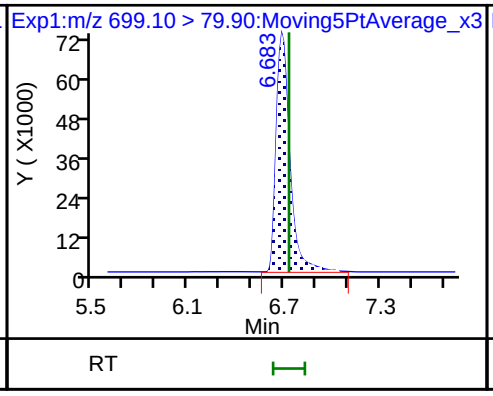

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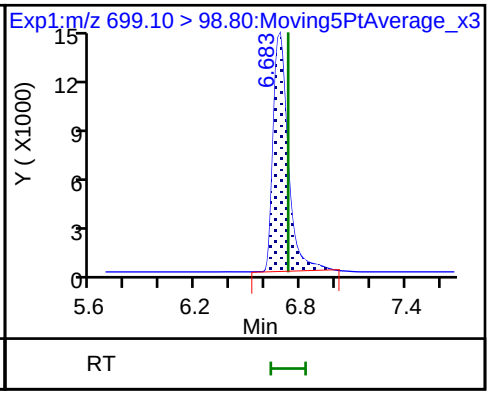

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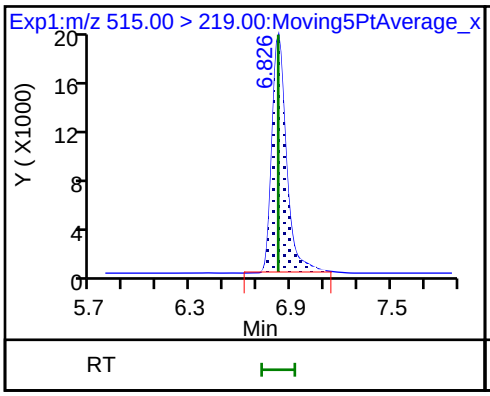

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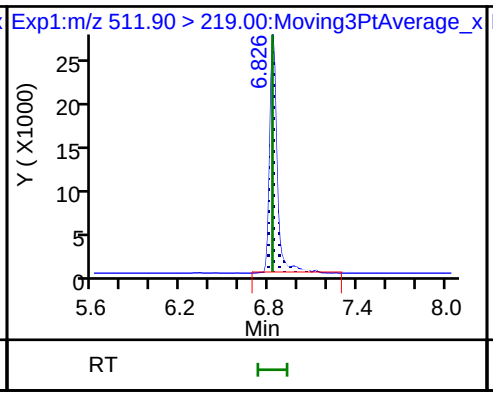

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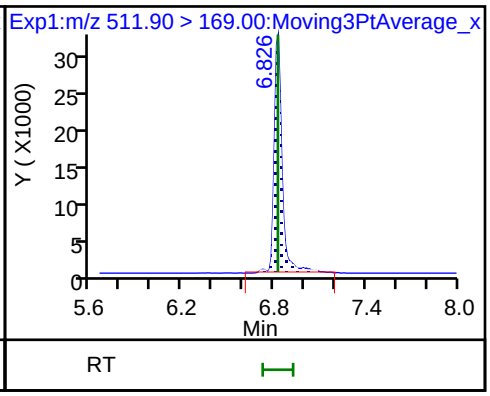

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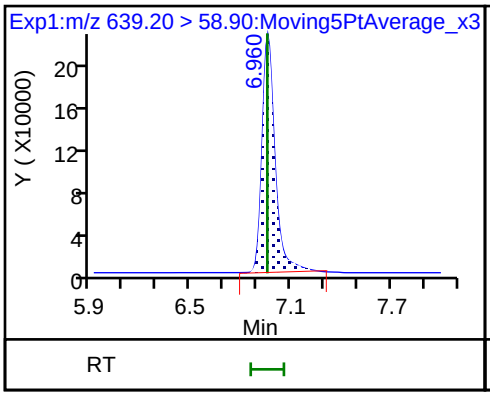
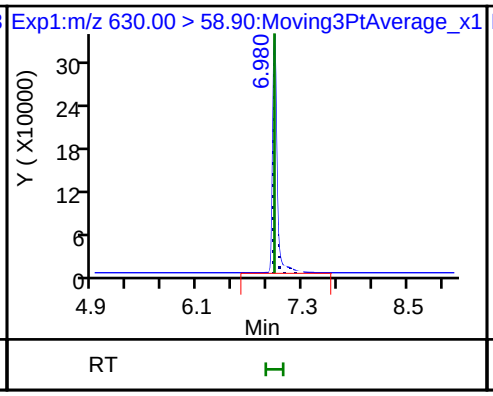
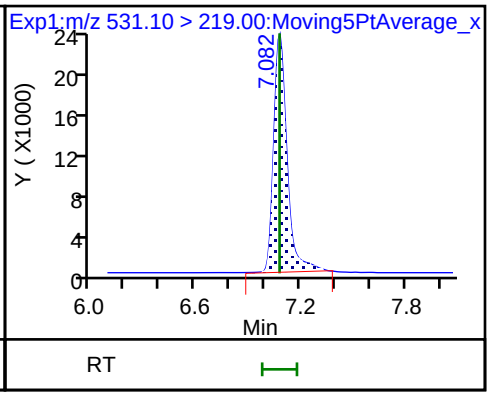


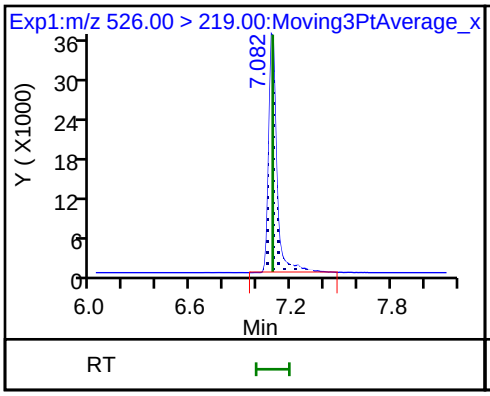
72 N-EtFOSE-M



D 73 d5-NEtPFOSA



74 N-EtFOSA-M



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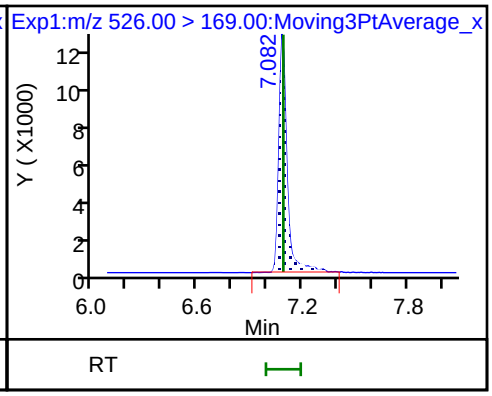


FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 460-282979-1

SDG No.:

Lab Sample ID: CCV 410-405691/54 Calibration Date: 08/08/2023 23:11

Instrument ID: 30729 Calib Start Date: 08/05/2023 09:27

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 08/05/2023 11:25

Lab File ID: 23AUG08-59.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid	AveID	0.8351	0.8187		9.80	10.0	-2.0	30.0
3:3 FTCA	AveID	0.0907	0.0800		11.0	12.5	-11.8	30.0
Perfluoro-3-methoxypropanoic acid	AveID	1.812	1.693		4.67	5.00	-6.5	30.0
Perfluoropentanoic acid	AveID	1.811	1.617		4.47	5.00	-10.7	30.0
Perfluoro(4-methoxybutanoic acid)	AveID	1.455	1.281		4.40	5.00	-12.0	30.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	2.677	2.146		7.51	9.38	-19.9	30.0
Perfluoro-3,6-dioxaheptanoic acid	AveID	0.7006	0.7271		5.19	5.00	3.8	30.0
Perfluorohexanoic acid	AveID	5.431	5.933		2.73	2.50	9.2	30.0
5:3 FTCA	AveID	1.607	1.615		62.8	62.5	0.5	30.0
Perfluorobutanesulfonic acid	AveID	0.6048	0.6101		2.24	2.22	0.9	30.0
HFPO-DA	AveID	0.6844	0.6752		9.87	10.0	-1.3	30.0
PFEESA	AveID	28.68	31.70		4.92	4.45	10.5	30.0
Perfluoroheptanoic acid	AveID	0.9439	0.9733		2.58	2.50	3.1	30.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	1.933	1.796		8.78	9.45	-7.1	30.0
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	AveID	4.563	3.685		7.67	9.50	-19.3	30.0
Perfluoropentanesulfonic acid	AveID	0.9858	1.073		2.56	2.35	8.8	30.0
Perfluorooctanoic acid	AveID	0.4940	0.5172		2.62	2.50	4.7	30.0
Perfluorohexanesulfonic acid	AveID	0.5267	0.5475		2.38	2.29	4.0	30.0
7:3 FTCA	AveID	1.139	1.160		63.7	62.5	1.8	30.0
Perfluorononanoic acid	AveID	0.8401	0.9254		2.75	2.50	10.2	30.0
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	AveID	5.615	6.937		11.9	9.60	23.6	30.0
Perfluoroheptanesulfonic acid	AveID	1.010	0.9818		2.32	2.38	-2.8	30.0
NMeFOSAA	AveID	0.9373	0.8712		2.32	2.50	-7.0	30.0
Perfluorodecanoic acid	AveID	0.7111	0.7061		2.48	2.50	-0.7	30.0
NEtFOSAA	AveID	0.7481	0.7826		2.62	2.50	4.6	30.0
Perfluorooctanesulfonic acid	AveID	0.9211	0.9083		2.29	2.32	-1.4	30.0
Perfluoroundecanoic acid	AveID	0.8846	0.8891		2.51	2.50	0.5	30.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	1.782	1.867		9.80	9.35	4.8	30.0
Perfluorononanesulfonic acid	AveID	0.6776	0.7187		2.55	2.41	6.1	30.0
Perfluorododecanoic acid	AveID	0.9435	0.999		2.65	2.50	5.9	30.0
Perfluorooctanesulfonamide	AveID	1.032	1.001		2.43	2.50	-2.9	30.0
Perfluorodecanesulfonic acid	AveID	1.066	1.091		2.47	2.41	2.4	30.0
Perfluorotridecanoic acid	AveID	1.001	0.9765		2.44	2.50	-2.4	30.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	2.383	2.491		9.88	9.45	4.5	30.0
Perfluorotetradecanoic acid	AveID	1.144	1.055		2.31	2.50	-7.8	30.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	1.112	1.049		2.29	2.43	-5.6	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 460-282979-1

SDG No.:

Lab Sample ID: CCV 410-405691/54 Calibration Date: 08/08/2023 23:11

Instrument ID: 30729 Calib Start Date: 08/05/2023 09:27

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 08/05/2023 11:25

Lab File ID: 23AUG08-59.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	AveID	1.112	1.101		24.8	25.0	-1.0	30.0
NMeFOSA	AveID	0.7946	0.8167		2.57	2.50	2.8	30.0
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	AveID	0.9402	0.9099		24.2	25.0	-3.2	30.0
N-ethylperfluoro-1-octanesulfonamide	AveID	0.9632	0.9222		2.39	2.50	-4.3	30.0
13C4 PFBA	Ave	0.8117	0.7913		9.75	10.0	-2.5	30.0
13C5 PFPeA	Ave	0.7185	0.8163		5.68	5.00	13.6	30.0
M2-4:2 FTS	Ave	0.0734	0.0874		5.58	4.69	19.0	30.0
13C5 PFHxA	Ave	0.1748	0.1736		2.48	2.50	-0.7	30.0
13C3 PFBS	Ave	1.037	1.063		2.39	2.33	2.5	30.0
13C3 HFPO-DA	Ave	1.103	1.171		10.6	10.0	6.1	30.0
13C4 PFHpA	Ave	2.096	2.140		2.55	2.50	2.1	30.0
M2-6:2 FTS	Ave	0.0379	0.0457		5.74	4.76	20.6	30.0
13C8 PFOA	Ave	23.77	19.60		2.06	2.50	-17.5	30.0
13C3 PFHxS	Ave	1.127	1.040		2.19	2.37	-7.7	30.0
13C9 PFNA	Ave	1.056	1.061		1.26	1.25	0.5	30.0
M2-8:2 FTS	Ave	0.0202	0.0161		3.82	4.80	-20.4	30.0
d3-NMeFOSAA	Ave	0.4974	0.5310		5.34	5.00	6.8	30.0
13C6 PFDA	Ave	1.009	1.013		1.26	1.25	0.4	30.0
d5-NEtFOSAA	Ave	0.4628	0.4481		4.84	5.00	-3.2	30.0
13C8 PFOS	Ave	1.425	1.439		2.42	2.40	1.0	30.0
13C7 PFUnA	Ave	0.9271	0.9773		1.32	1.25	5.4	30.0
13C2-PFDoDA	Ave	0.8228	0.8381		1.27	1.25	1.9	30.0
13C8 FOSA	Ave	2.088	2.277		2.73	2.50	9.1	30.0
13C2 PFTeDA	Ave	0.4633	0.5060		1.37	1.25	9.2	30.0
d7-N-MeFOSE-M	Ave	0.3433	0.3464		25.2	25.0	0.9	30.0
d3-NMePFOSA	Ave	0.4096	0.4060		2.48	2.50	-0.9	30.0
d9-N-EtFOSE-M	Ave	0.4215	0.4188		24.8	25.0	-0.6	30.0
d5-NEtPFOSA	Ave	0.4391	0.4602		2.62	2.50	4.8	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-59.d
Lims ID: CCV 6_CAL4
Client ID:
Sample Type: CCV
Inject. Date: 08-Aug-2023 23:11:26 ALS Bottle#: 20005 Worklist Smp#: 54
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCV 6_CAL4
Misc. Info.: Plate: 1 Rack: 1 410-0090889-054
Operator ID: US19_USR_INS20263 Instrument ID: 30729
Sublist: chrom-PFAS_30729_1633*sub4

Method: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\PFAS_30729_1633.m
Limit Group: LC - 1633 ICAL
Last Update: 09-Aug-2023 09:53:08 Calib Date: 05-Aug-2023 11:25:28
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-11.d

Column 1 : Det: EXP1
Process Host: CTX1649

First Level Reviewer: QY4X Date: 09-Aug-2023 08:16:59
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4-PFBA										
216.80 > 171.90	2.927	2.932	-0.005	1.000	1264202	9.75		97.5	74888	
* 3 13C3PFBA										
216.00 > 172.00	2.927	2.932	-0.005		798846	5.00			1643	
1 PFBA										
212.80 > 168.90	2.920	2.942	-0.022	0.997	1034950	9.80		98.0	5192	
4 PFMPA										
229.00 > 84.90	3.158	3.167	-0.009	0.918	697822	4.67		93.5	48717	
5 3:3 FTCA										
241.00 > 177.00	3.158	3.167	-0.009	0.918	82387	11.0	Target=1.11	88.2	5915	
241.00 > 117.00	3.158	3.167	-0.009	0.918	79330		1.04(0.55-1.66)		2876	
D 7 13C5 PFPeA										
268.30 > 223.00	3.438	3.444	-0.006	0.918	412072	5.68		114	25410	
6 PFPA										RMa
263.00 > 219.00	3.438	3.447	-0.009	1.000	666452	4.47	Target=1273.32	89.3	15223	Ra
263.00 > 68.90	3.448	3.447	0.001	1.003	298		2236.42(636.66-1909.99)		20.3	M
8 PFMBA										
279.00 > 85.10	3.541	3.562	-0.021	1.030	527678	4.40		88.0	32300	
D 10 13C2-4:2FTS										
329.10 > 80.90	3.632	3.638	-0.006	0.828	76687	5.58	Target=0.35	119	3485	
329.10 > 309.00	3.620	3.638	-0.018	0.825	199414		0.38(0.18-0.53)	119	11810	
9 4:2FTS										
327.10 > 307.00	3.620	3.642	-0.022	0.997	328923	7.51	Target=1.40	80.1	19476	
327.10 > 80.90	3.620	3.642	-0.022	0.997	226594		1.45(0.70-2.10)		13474	
12 NFDHA										
295.00 > 201.00	3.714	3.734	-0.020	0.992	63729	5.19	Target=2.17	104	4356	
295.00 > 84.90	3.714	3.734	-0.020	0.992	32270		1.97(1.08-3.25)		2063	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 14 13C5 PFHxA										
318.00 > 273.00	3.745	3.750	-0.005	1.000	43822	2.48	Target=15.34	99.3	2896	
318.00 > 120.30	3.734	3.750	-0.016	0.997	3394		12.91(7.67-23.01)	99.3	233	
* 15 13C2 PFHxA										
315.10 > 270.00	3.745	3.750	-0.005		252395	2.50	Target=103.53		16388	
315.10 > 119.40	3.734	3.750	-0.016		1969		128.18(51.76-155.29)		123	
13 PFHxA										
313.00 > 269.00	3.745	3.755	-0.010	1.000	259984	2.73	Target=13.63	109	12311	
313.00 > 118.90	3.745	3.755	-0.010	1.000	18695		13.91(6.82-20.45)		1269	
D 18 13C3 PFBS										
302.10 > 79.90	3.850	3.856	-0.006	0.878	463675	2.39	Target=6.99	103	28611	
302.10 > 98.90	3.839	3.856	-0.017	0.875	71557		6.48(3.50-10.49)	103	4621	
17 PFBS										
298.70 > 79.90	3.850	3.860	-0.010	1.000	269215	2.24	Target=3.41	101	16913	
298.70 > 98.80	3.839	3.860	-0.021	0.997	90150		2.99(1.70-5.11)		5593	
16 5:3 FTCA										
341.00 > 237.10	3.839	3.860	-0.021	1.025	1769791	62.8	Target=2.68	101	106813	
341.00 > 217.00	3.839	3.860	-0.021	1.025	695156		2.55(1.34-4.01)		43401	
D 20 13C3 HFPO-DA										
286.90 > 168.90	3.861	3.867	-0.006	1.031	1182048	10.6	Target=29.00	106	71934	
286.90 > 184.90	3.850	3.867	-0.017	1.028	35335		33.45(14.50-43.50)	106	2215	
19 HFPO-DA										
284.90 > 168.90	3.861	3.872	-0.011	1.000	798168	9.87	Target=17.67	98.7	2831	
284.90 > 184.90	3.861	3.872	-0.011	1.000	41046		19.45(8.84-26.51)		2679	
23 PFEESA										
314.80 > 134.90	3.991	4.012	-0.021	1.066	2472950	4.92	Target=14.15	111	158848	
314.80 > 82.90	3.991	4.012	-0.021	1.066	162585		15.21(7.08-21.23)		5972	
D 25 13C4 PFHpA										
367.10 > 322.00	4.002	4.018	-0.016	1.069	540057	2.55		102	32955	
24 PFHpA										
363.10 > 319.00	4.002	4.022	-0.020	1.000	525616	2.58	Target=3.62	103	19726	
363.10 > 169.00	4.002	4.022	-0.020	1.000	135317		3.88(1.81-5.44)		8614	
26 ADONA										
376.90 > 250.90	4.089	4.111	-0.022	1.059	2006650	8.78	Target=12.84	92.9	90150	
376.90 > 84.80	4.089	4.111	-0.022	1.059	169885		11.81(6.42-19.27)		10365	
D 29 13C2-6:2FTS										R
429.10 > 80.90	4.122	4.129	-0.007	0.940	40704	5.74	Target=0.12	121	2499	R
429.10 > 409.00	4.111	4.129	-0.018	0.937	201368		0.20(0.06-0.18)	121	12493	
27 6:2FTS										
427.10 > 407.00	4.111	4.132	-0.021	0.997	299634	7.67	Target=1.71	80.7	17332	
427.10 > 80.90	4.111	4.132	-0.021	0.997	194641		1.54(0.85-2.56)		12080	
28 PFPeS										
349.10 > 79.90	4.133	4.155	-0.022	0.940	491308	2.56	Target=3.85	109	29781	
349.10 > 98.90	4.133	4.155	-0.022	0.940	128960		3.81(1.93-5.78)		8027	
32 PFOA										
413.00 > 369.00	4.244	4.250	-0.006	1.000	304000	2.62	Target=2.36	105	251	
413.00 > 169.00	4.244	4.250	-0.006	1.000	127652		2.38(1.18-3.53)		407	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 30 13C4 PFOA										
417.10 > 172.00	4.244	4.261	-0.017		29982	2.50			1996	
D 31 13C8 PFOA										
421.10 > 376.00	4.244	4.261	-0.017	1.000	587762	2.06		82.5	36999	
* 35 18O2 PFHxS										
403.00 > 83.90	4.386	4.401	-0.015		443513	2.37			29895	
D 36 13C3 PFHxS										
402.10 > 79.90	4.396	4.411	-0.015	1.002	461293	2.19	Target=3.90	92.3	31580	
402.10 > 98.80	4.386	4.411	-0.025	1.000	122178		3.78(1.95-5.85)	92.3	8240	
34 PFHxS										
398.70 > 79.90	4.396	4.413	-0.017	1.000	243506	2.38	Target=3.39	104	1168	
398.70 > 98.90	4.396	4.413	-0.017	1.000	72712		3.35(1.69-5.08)		369	
33 7:3 FTCA										
441.00 > 316.90	4.414	4.434	-0.020	1.179	1271274	63.6	Target=0.66	102	83955	
441.00 > 336.90	4.414	4.434	-0.020	1.179	1938396		0.66(0.33-1.00)		127023	
* 37 13C5 PFNA										
468.00 > 423.00	4.476	4.493	-0.017		151145	1.25			10050	
39 PFNA										
463.00 > 419.00	4.486	4.493	-0.007	1.002	296851	2.75	Target=5.25	110	611	
463.00 > 219.00	4.476	4.493	-0.017	1.000	49381		6.01(2.63-7.88)		204	
D 38 13C9 PFNA										
472.10 > 427.00	4.476	4.493	-0.017	1.000	160385	1.26		100	10421	
D 41 13C2-8:2FTS										
529.10 > 80.90	4.585	4.601	-0.016	1.045	14469	3.82	Target=0.14	79.6	995	
529.10 > 509.00	4.585	4.601	-0.016	1.045	141789		0.10(0.07-0.21)	79.6	9742	
40 8:2FTS										
527.10 > 507.00	4.585	4.614	-0.029	1.000	200752	11.9	Target=1.21	124	10279	
527.10 > 80.80	4.585	4.614	-0.029	1.000	200681		1.00(0.60-1.81)		10101	
42 PFHpS										
449.00 > 79.90	4.655	4.685	-0.030	0.929	395988	2.32	Target=3.73	97.2	19124	
449.00 > 98.80	4.655	4.685	-0.030	0.929	112736		3.51(1.86-5.59)		5568	
D 44 d3-NMeFOSAA										
573.20 > 419.00	4.707	4.723	-0.016	0.940	312383	5.34		107	15487	
43 NMeFOSAA										
570.10 > 419.00	4.707	4.725	-0.018	1.000	136076	2.32	Target=1.77	93.0	821	
570.10 > 483.00	4.707	4.725	-0.018	1.000	74750		1.82(0.89-2.66)		272	
* 46 13C2 PFDA										
515.10 > 470.10	4.754	4.778	-0.024		190365	1.25			12738	
D 47 13C6 PFDA										
519.10 > 474.10	4.754	4.778	-0.024	1.000	192805	1.26		100	12917	
45 PFDA										
512.90 > 469.00	4.754	4.781	-0.027	1.000	272291	2.48	Target=6.01	99.3	9572	
512.90 > 219.00	4.754	4.781	-0.027	1.000	43576		6.25(3.00-9.01)		3070	
D 49 d5-NEtFOSAA										
589.20 > 419.00	4.860	4.874	-0.014	0.970	263594	4.84		96.8	13082	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
48 NEtFOSAA										
584.20 > 419.10	4.860	4.886	-0.026	1.000	103144	2.62	Target=1.68	105	400	
584.20 > 526.00	4.860	4.886	-0.026	1.000	60522		1.70(0.84-2.53)		221	
* 52 13C4 PFOS										
502.80 > 79.90	5.009	5.033	-0.024		281791	2.40	Target=4.18		11444	
502.80 > 98.90	4.999	5.033	-0.034		74774		3.77(2.09-6.27)		3798	
D 51 13C8 PFOS										
507.10 > 79.90	5.009	5.033	-0.024	1.000	405454	2.42	Target=3.96	101	13406	
507.10 > 98.90	4.999	5.033	-0.034	0.998	100890		4.02(1.98-5.94)	101	5086	
50 PFOS										
498.90 > 79.90	4.999	5.044	-0.045	0.998	356760	2.29	Target=4.55	98.6	1907	
498.90 > 98.80	4.999	5.044	-0.045	0.998	82461		4.33(2.28-6.83)		678	
D 54 13C7 PFUnA										
570.00 > 525.10	5.139	5.170	-0.031	1.081	186047	1.32		105	7662	
53 PFUnA										
563.10 > 519.00	5.130	5.180	-0.050	0.998	330841	2.51	Target=11.29	101	9830	
563.10 > 269.10	5.130	5.180	-0.050	0.998	31155		10.62(5.64-16.93)		2167	
55 9ClFOS										
530.80 > 351.00	5.343	5.404	-0.061	1.384	2063833	9.80	Target=3.20	105	135901	
532.80 > 353.00	5.343	5.404	-0.061	1.384	677544		3.05(1.60-4.81)		45196	
56 PFNS										
548.80 > 79.90	5.462	5.506	-0.044	1.091	292635	2.55	Target=4.70	106	12672	
548.80 > 98.80	5.462	5.506	-0.044	1.091	66747		4.38(2.35-7.05)		3571	
D 58 PFDoDA										
615.10 > 570.00	5.613	5.646	-0.033	1.181	159542	1.27		102	7182	
57 PFDoA										
613.10 > 569.00	5.613	5.654	-0.041	1.000	318852	2.65	Target=16.23	106	17033	
613.10 > 319.00	5.613	5.654	-0.041	1.000	18589		17.15(8.12-24.35)		1425	
60 PFOSA										
498.10 > 77.90	5.909	5.915	-0.006	1.000	670448	2.43	Target=58.34	97.1	10272	
498.10 > 478.00	5.901	5.915	-0.014	0.999	12176		55.06(29.17-87.51)		281	
D 59 13C8 FOSA										
506.10 > 77.80	5.909	5.923	-0.014	1.180	669650	2.73		109	45865	
61 PFDS										
599.00 > 79.90	5.917	5.965	-0.048	1.181	445596	2.47	Target=4.36	102	31854	
599.00 > 98.80	5.909	5.965	-0.056	1.180	99784		4.47(2.18-6.54)		5479	
62 PFTrDA										
663.00 > 619.00	6.054	6.099	-0.045	0.937	249841	2.44	Target=3.59	97.6	18710	
663.00 > 168.90	6.054	6.099	-0.045	0.937	63712		3.92(1.79-5.38)		3720	
63 11ClFOS										
630.90 > 450.90	6.238	6.288	-0.050	1.616	2782497	9.88	Target=5.30	105	177529	
632.90 > 452.90	6.238	6.288	-0.050	1.616	535726		5.19(2.65-7.95)		34832	
D 65 13C2 PFTeDA										
715.20 > 670.00	6.459	6.485	-0.026	1.359	96324	1.37		109	6052	
64 PFTeDA										
713.10 > 669.00	6.449	6.498	-0.049	0.998	203220	2.31	Target=3.31	92.2	12534	
713.10 > 168.90	6.449	6.498	-0.049	0.998	68379		2.97(1.66-4.97)		4721	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 67 d7-N-Me-FOSE										
623.20 > 58.90	6.683	6.692	-0.009	1.334	1018861	25.2		101	42132	
68 N-MeFOSE-M										
616.10 > 58.90	6.706	6.704	0.002	1.004	1121488	24.7		99.0	8524	
66 PFDoS										
699.10 > 79.90	6.683	6.729	-0.046	1.334	430822	2.29	Target=4.96	94.4	24023	
699.10 > 98.80	6.670	6.729	-0.059	1.332	83967		5.13(2.48-7.44)		4842	
D 69 d3-NMePFOSA										
515.00 > 219.00	6.813	6.823	-0.010	1.360	119433	2.48		99.1	6511	
70 NMeFOSA										
511.90 > 219.00	6.825	6.823	0.002	1.002	97544	2.57	Target=0.78	103	1996	
511.90 > 169.00	6.813	6.823	-0.010	1.000	122708		0.79(0.39-1.17)		1264	
D 71 d9-N-EtFOSE										
639.20 > 58.90	6.960	6.957	0.003	1.390	1232014	24.8		99.4	37237	
72 N-EtFOSE-M										
630.00 > 58.90	6.980	6.978	0.002	1.003	1120991	24.2		96.8	12517	
D 73 d5-NEtPFOSA										
531.10 > 219.00	7.072	7.080	-0.008	1.412	135358	2.62		105	8497	
74 N-EtFOSA-M										
526.00 > 219.00	7.082	7.090	-0.008	1.001	124825	2.39	Target=3.00	95.7	1482	
526.00 > 169.00	7.082	7.090	-0.008	1.001	40582		3.08(1.50-4.50)		1044	

QC Flag Legend

Processing Flags
R - Failed Signal Ratio Test
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

PFC_STD4_1633_00012 Amount Added: 1.00 Units: mL

Report Date: 09-Aug-2023 09:53:14 Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-59.d

Injection Date: 08-Aug-2023 23:11:26 Instrument ID: 30729

Lims ID: CCV 6_CAL4

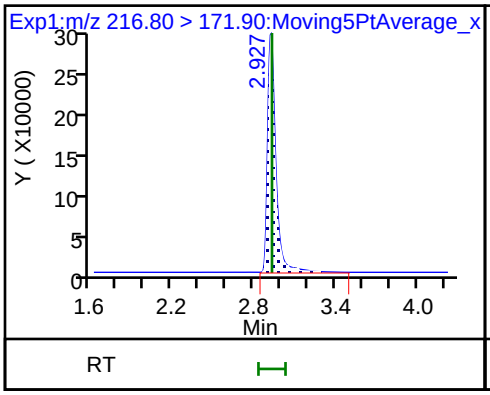
Client ID:

Operator ID: US19_USR_INS20263 ALS Bottle#: 20005 Worklist Smp#: 54

Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: PFAS_30729_1633 Limit Group: LC - 1633 ICAL

D 2 13C4-PFBA



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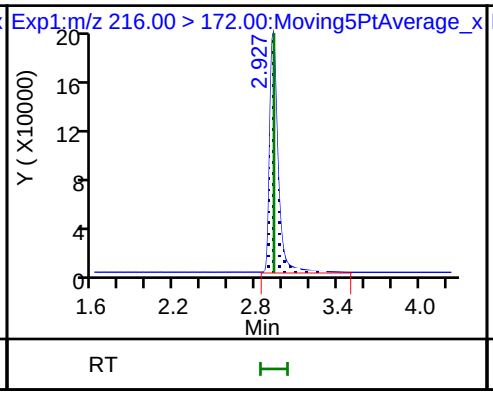
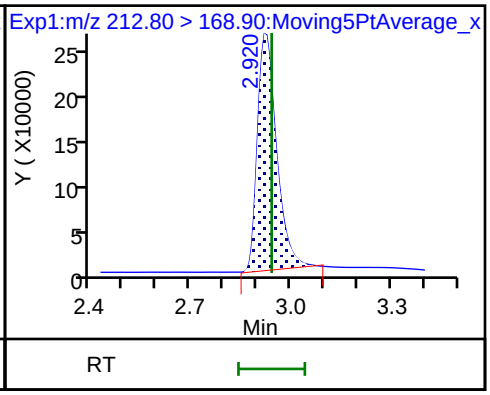
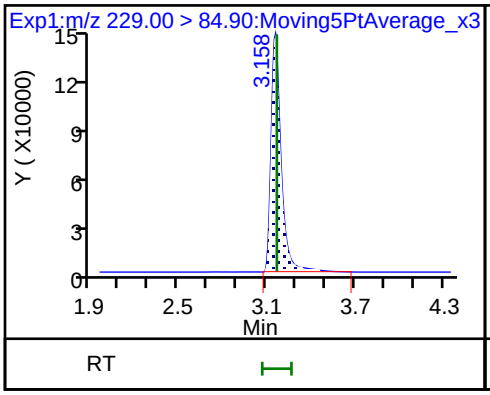


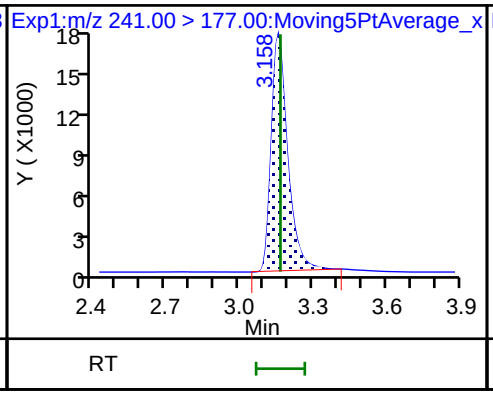
1 PFBA



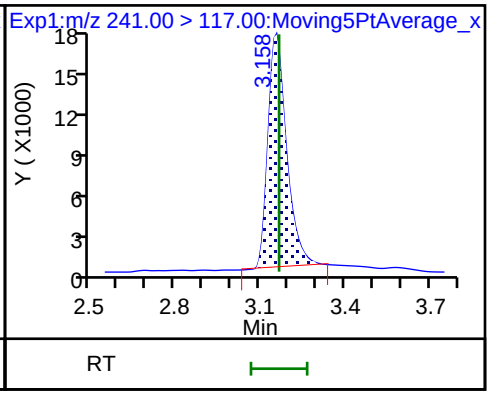
4 PFMPA



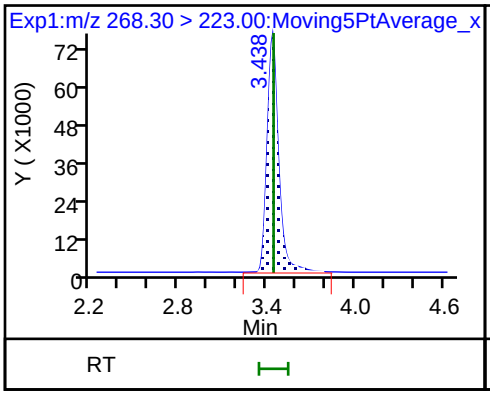
5 3:3 FTCA



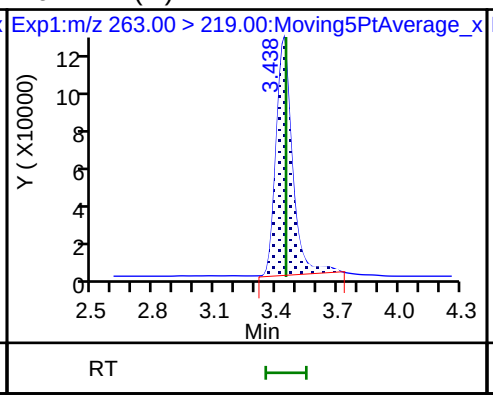
5 3:3 FTCA



D 7 13C5 PFPeA



6 PFPA (M)



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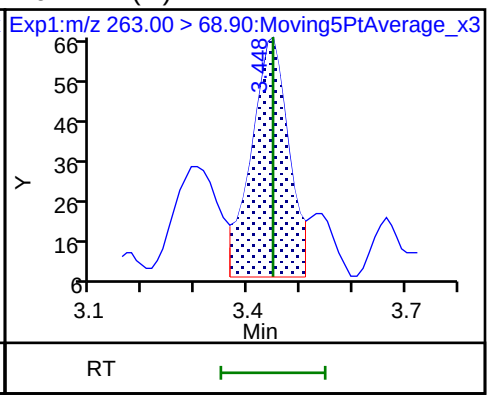

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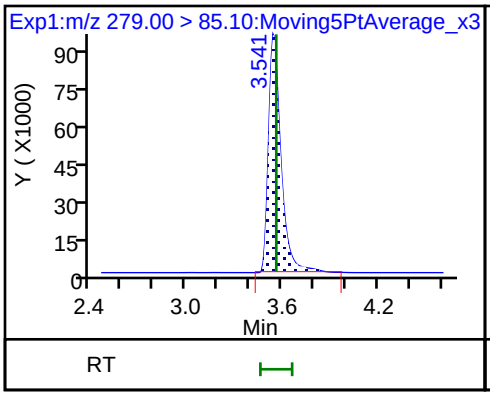

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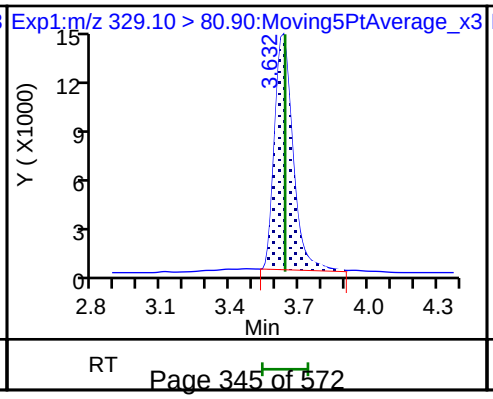

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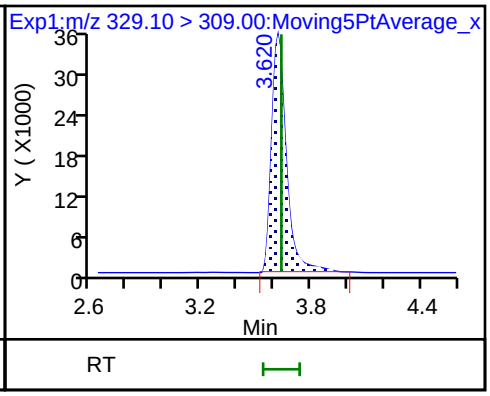

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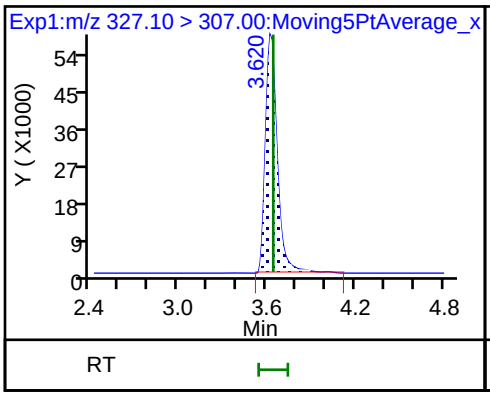

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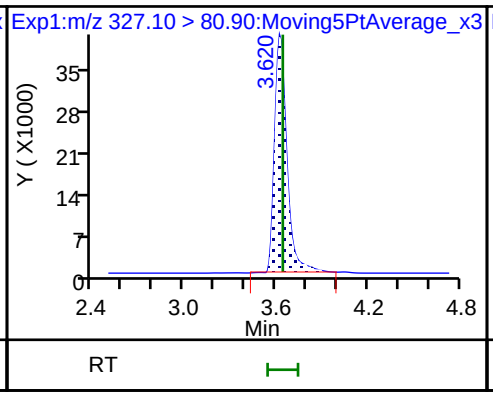
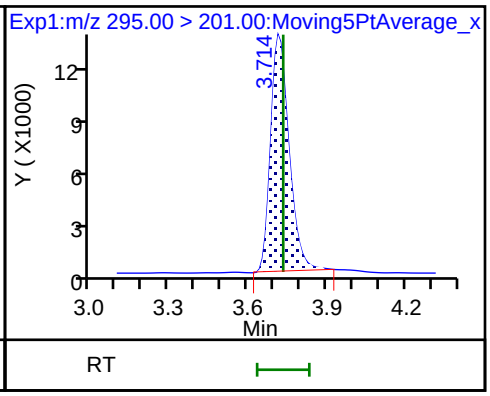
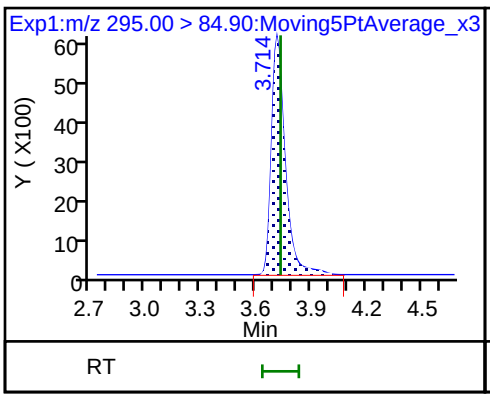


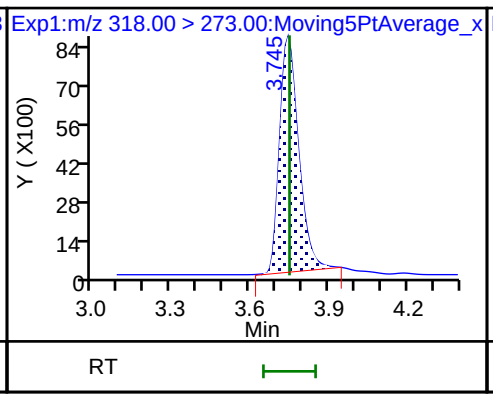
12 NFDHA



12 NFDHA



D 14 13C5 PFHxA



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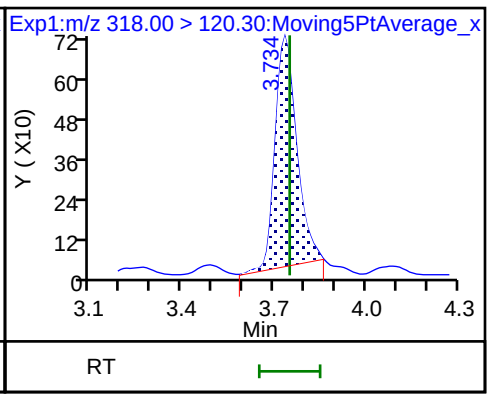

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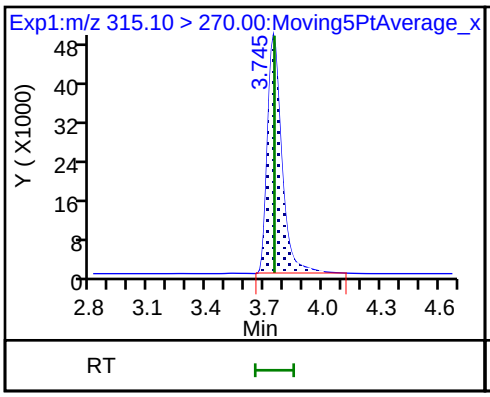

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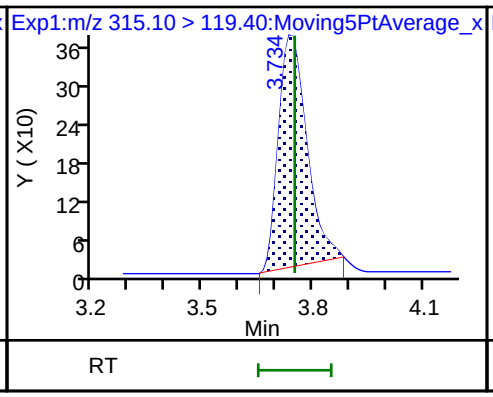

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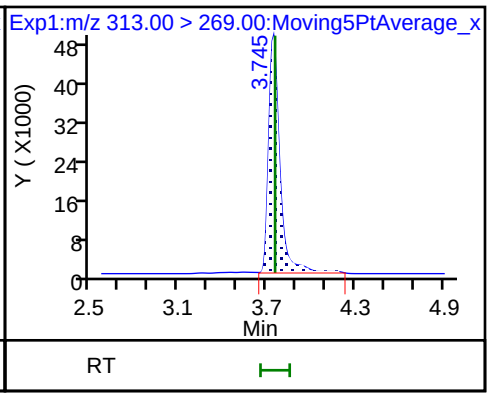

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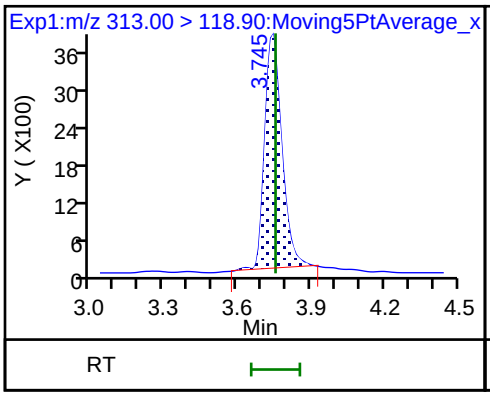
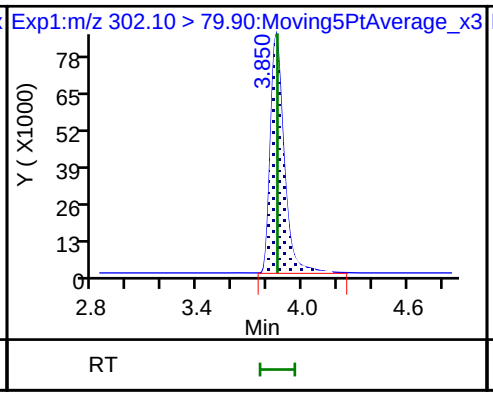


D 18 13C3 PFBS



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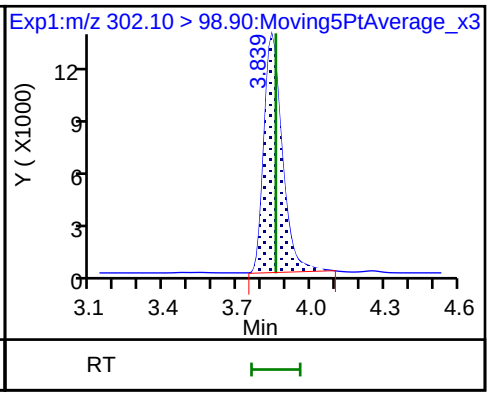

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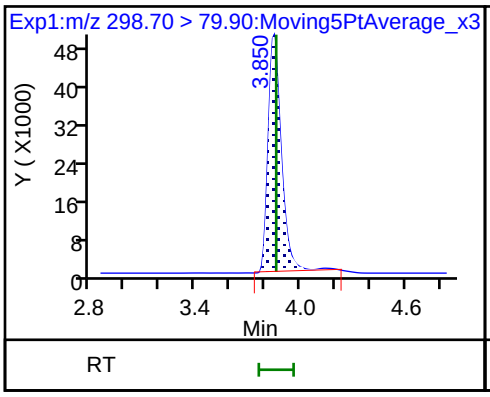

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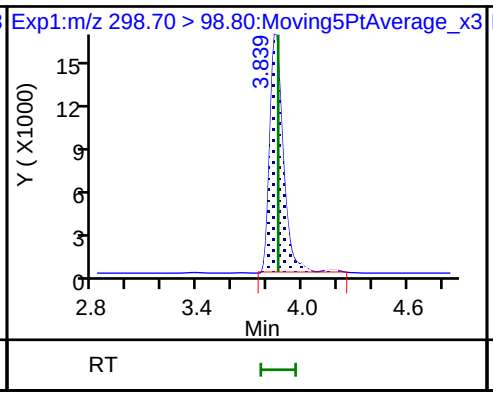
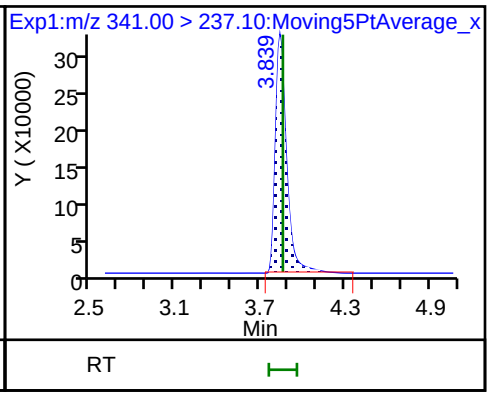


16 5:3 FTCA



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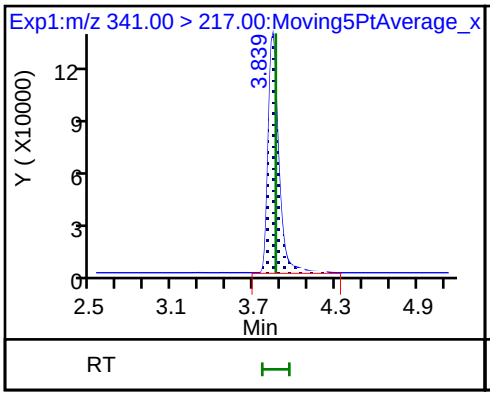

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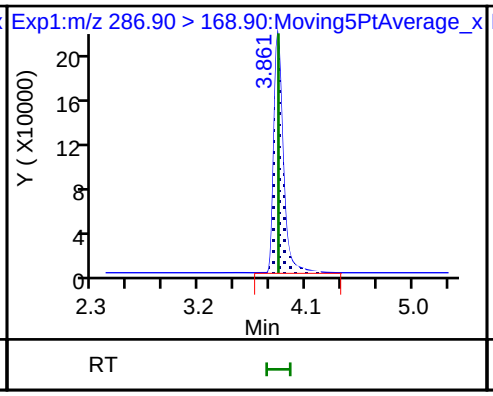

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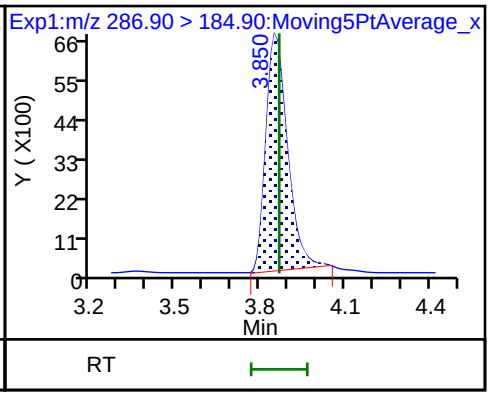

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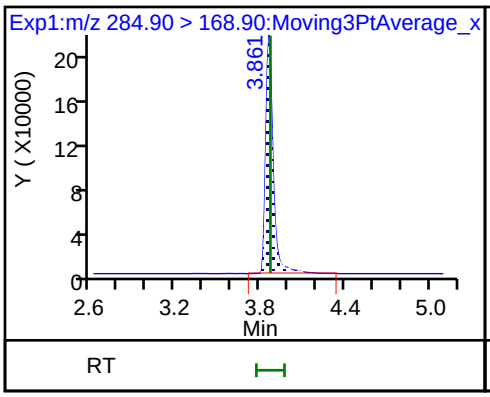

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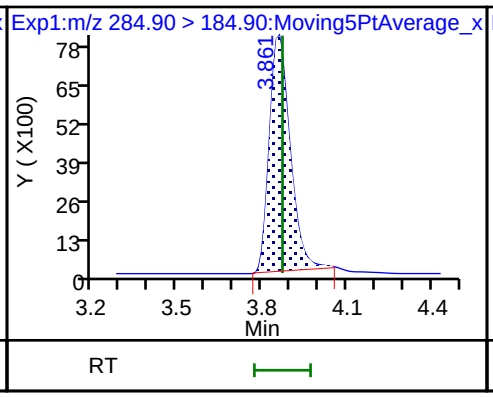
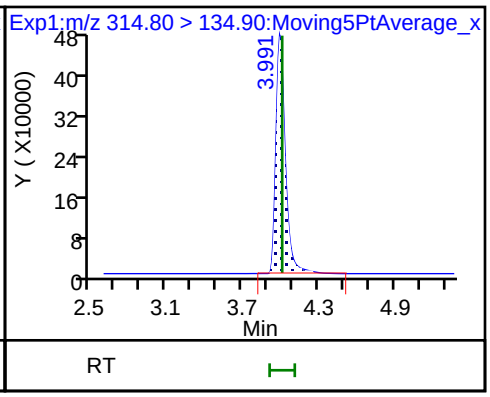


23 PFEESA



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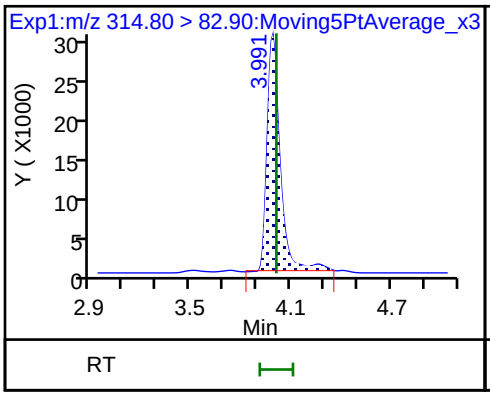

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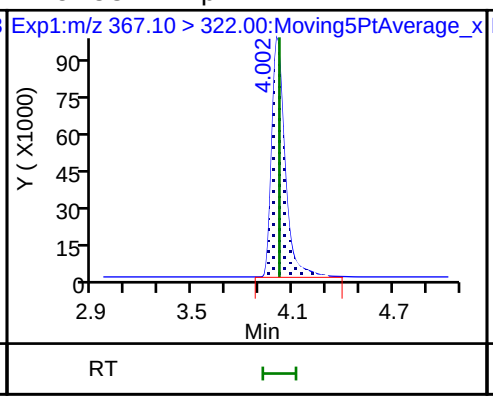

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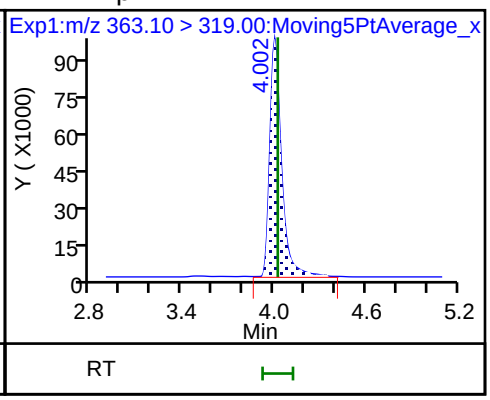

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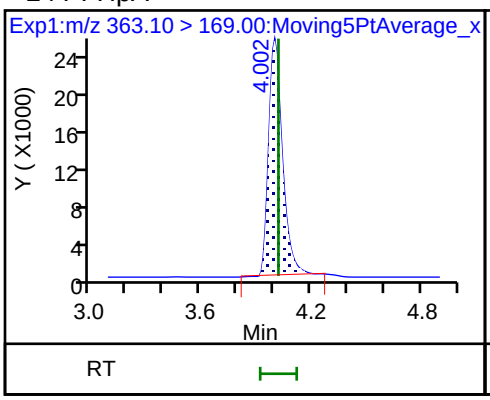

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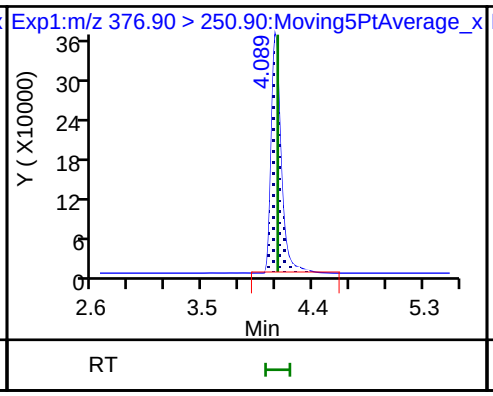

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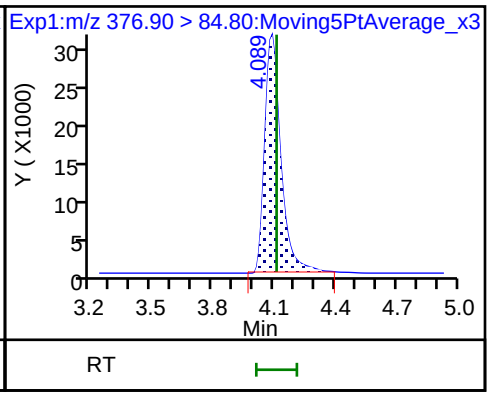

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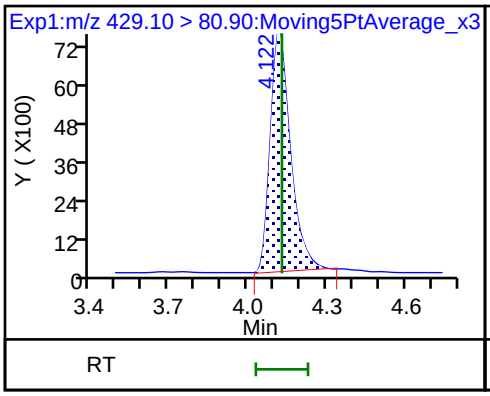

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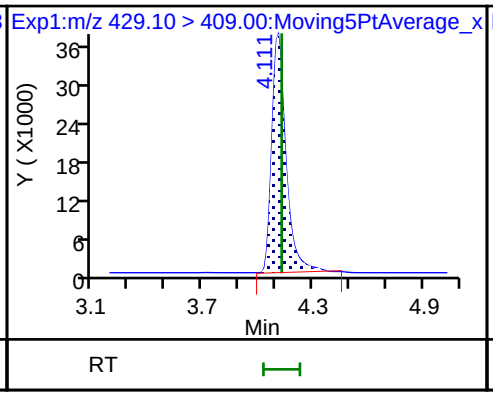

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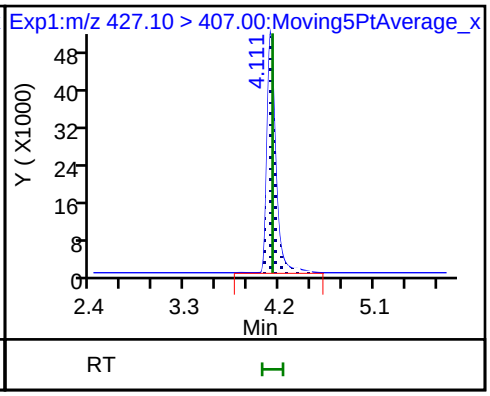

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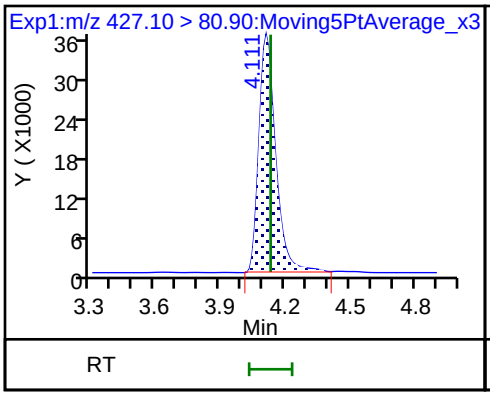
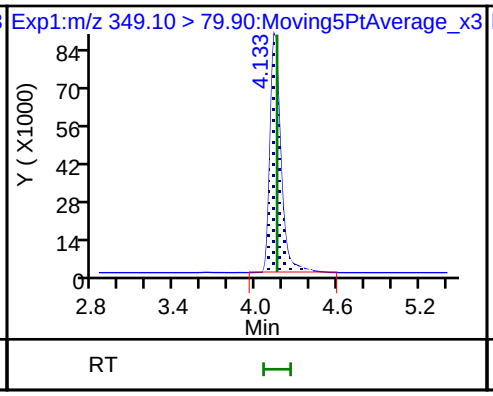


28 PFPeS



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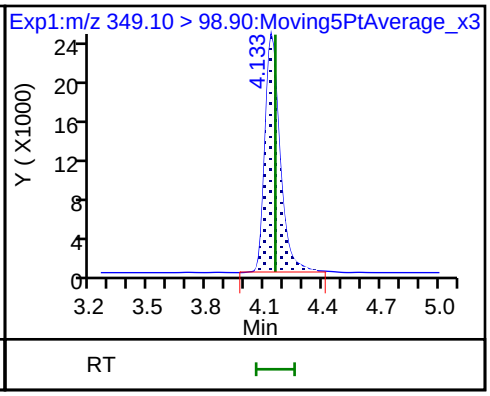
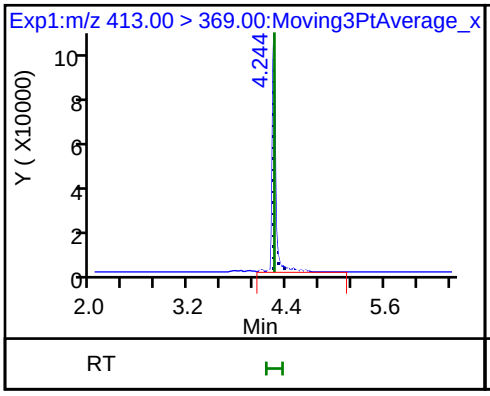


32 PFOA



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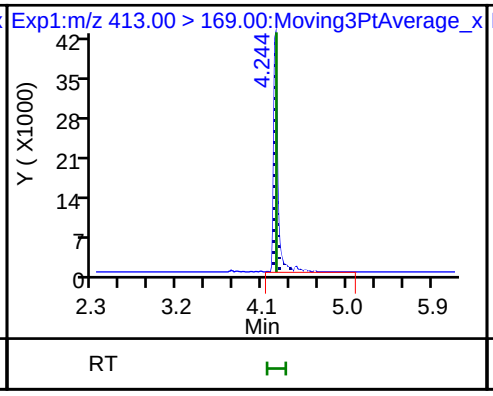

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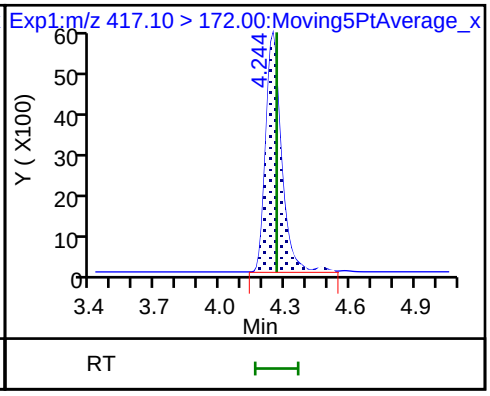

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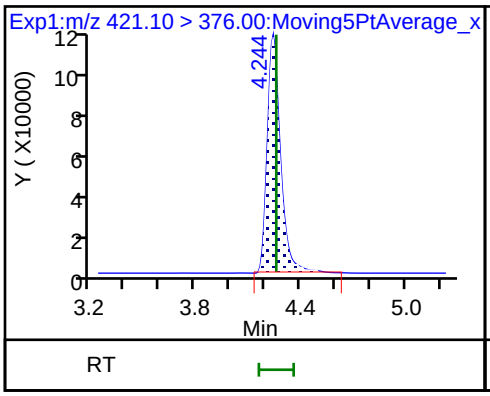

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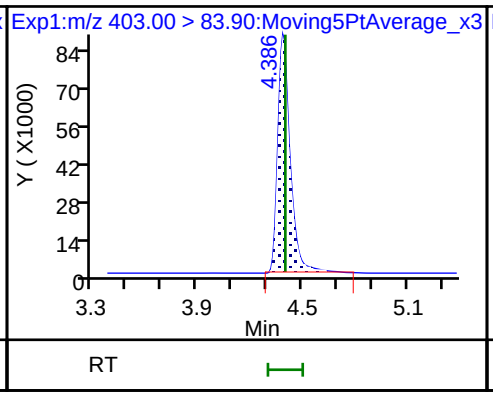

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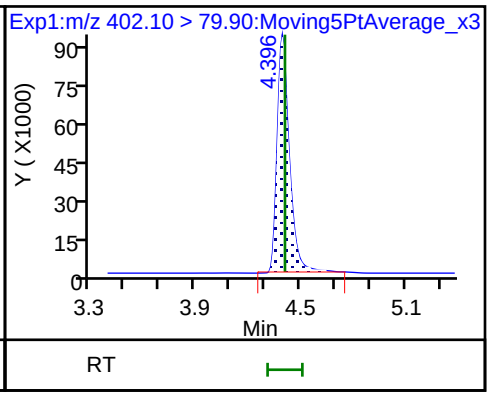

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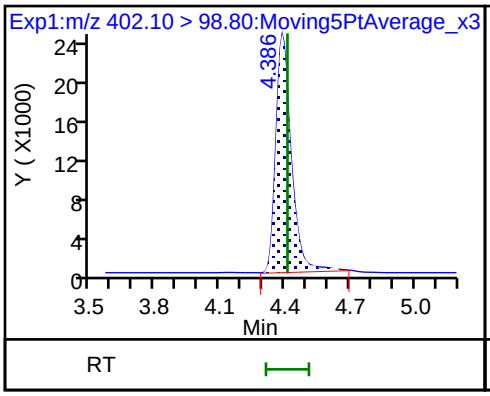

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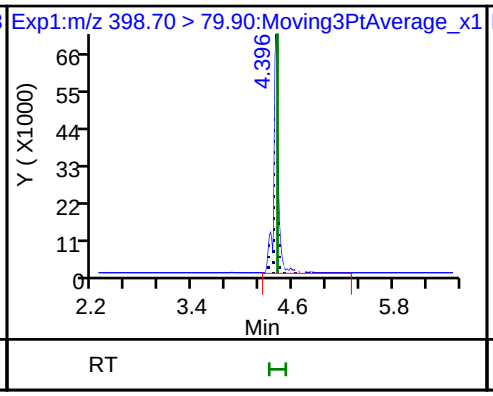

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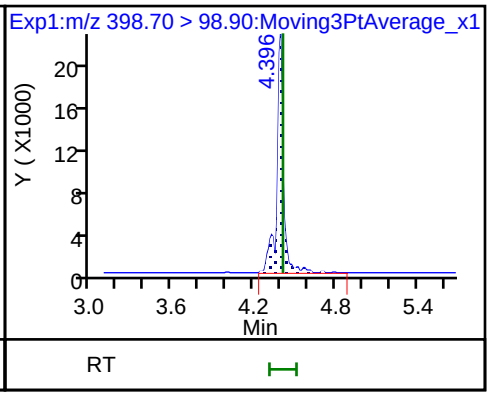

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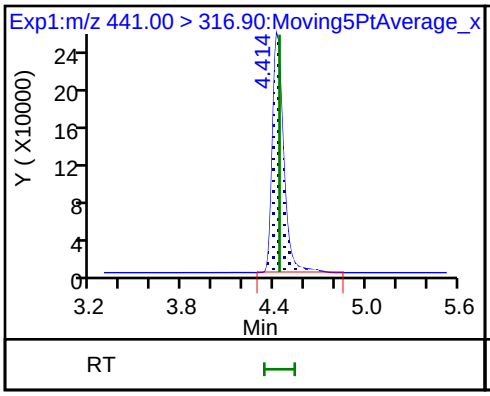

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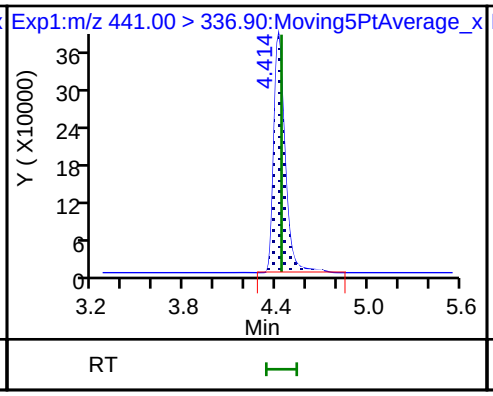

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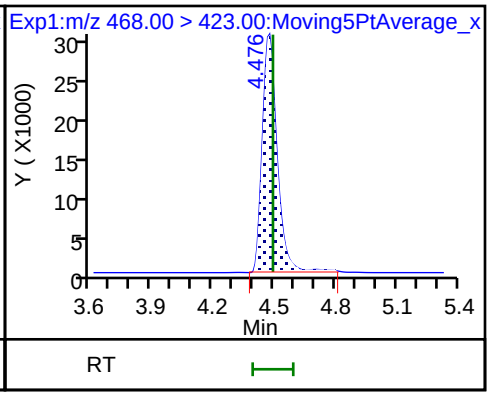

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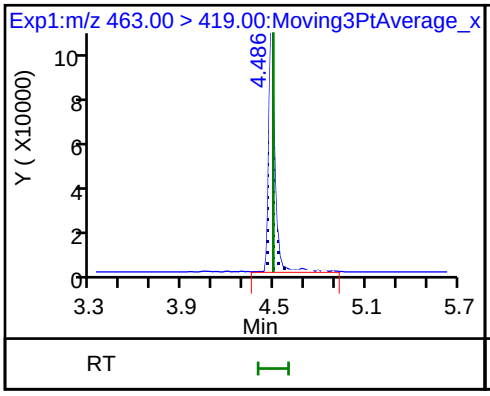

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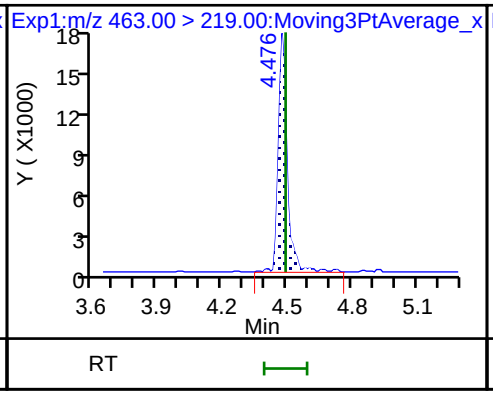
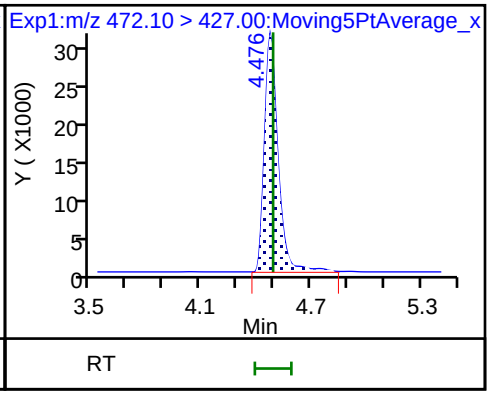
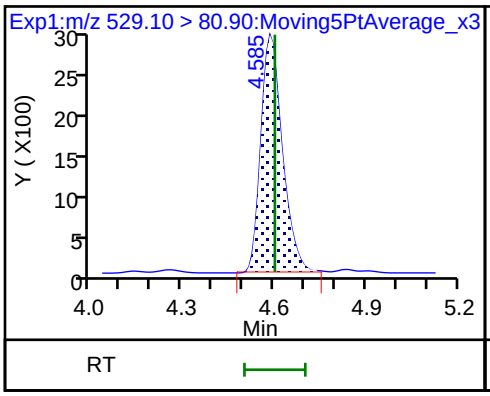


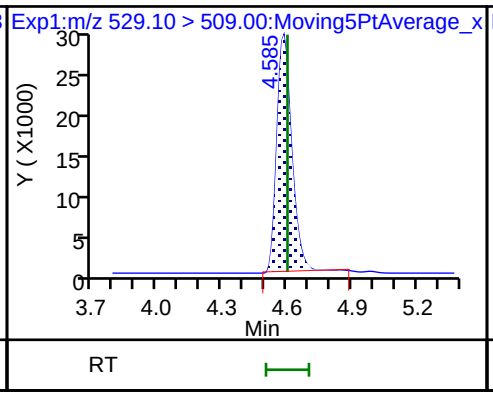
D 38 13C9 PFNA



D 41 13C2-8:2FTS



D 41 13C2-8:2FTS



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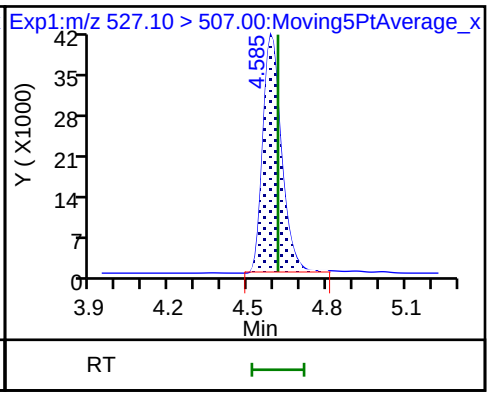

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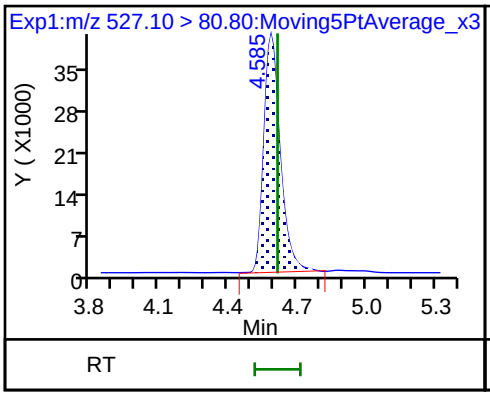

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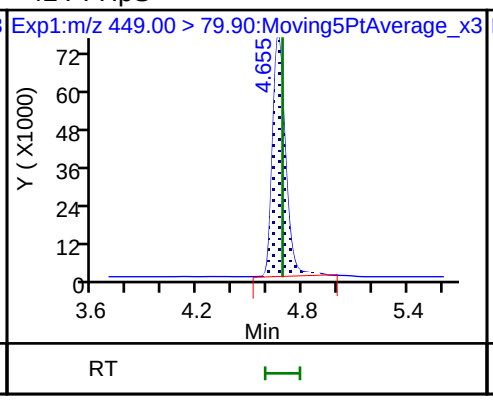

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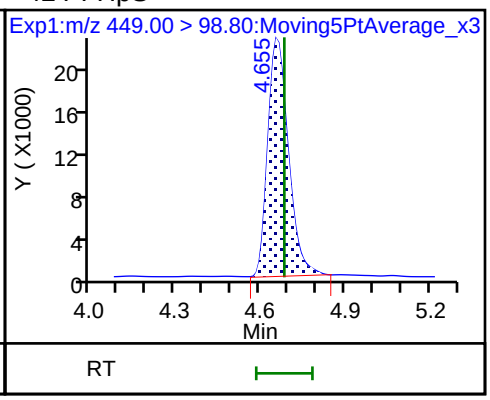
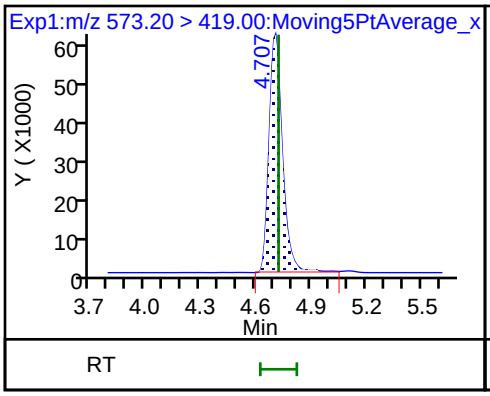
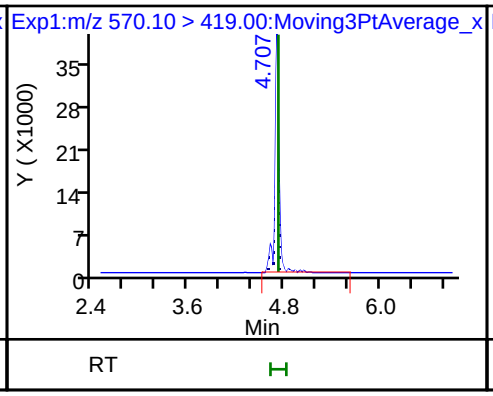


D 44 d3-NMeFOSAA



43 NMeFOSAA



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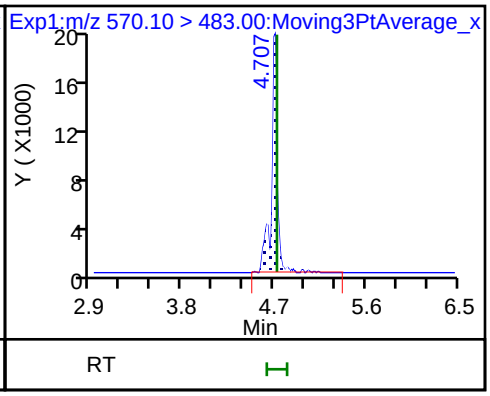
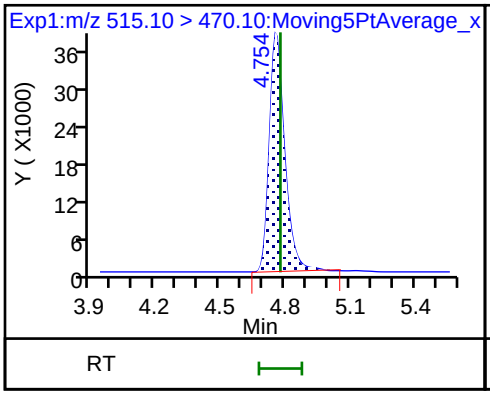
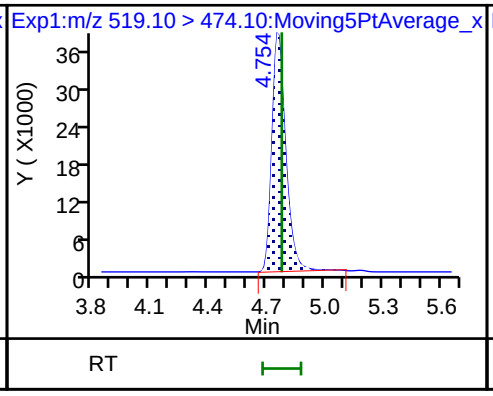


* 46 13C2 PFDA



D 47 13C6 PFDA



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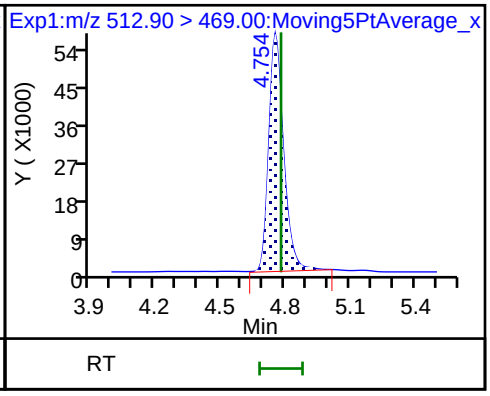

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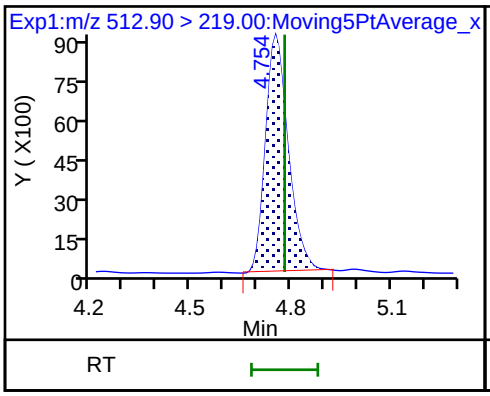
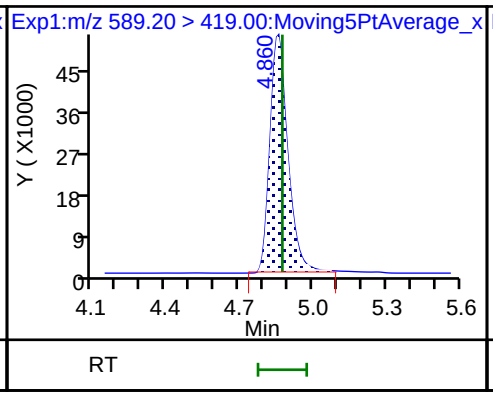


D 49 d5-NEtFOSAA



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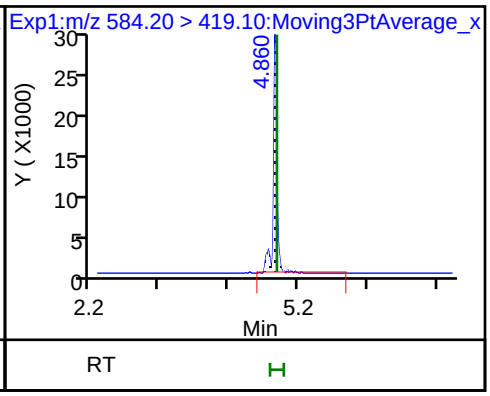

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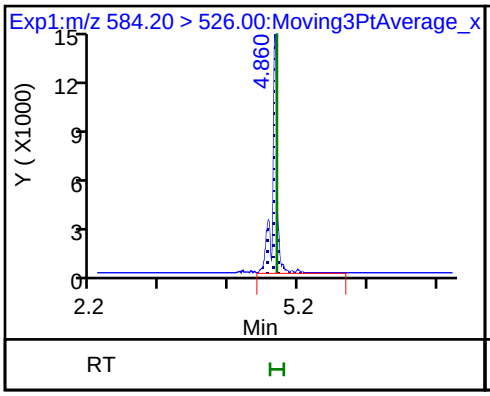
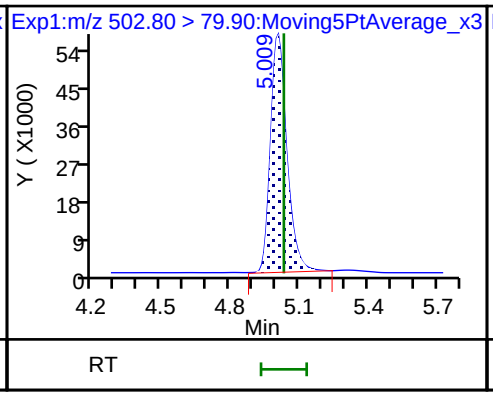
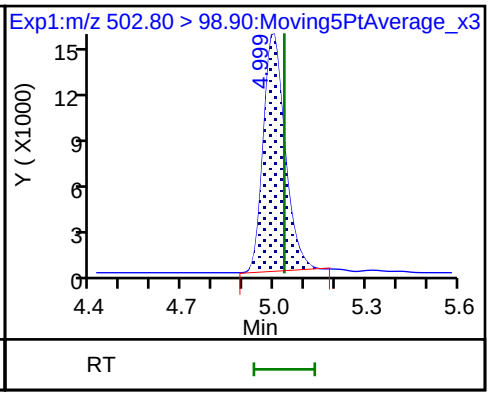


* 52 13C4 PFOS



* 52 13C4 PFOS



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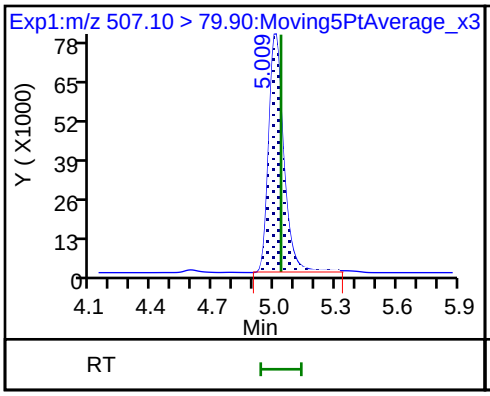

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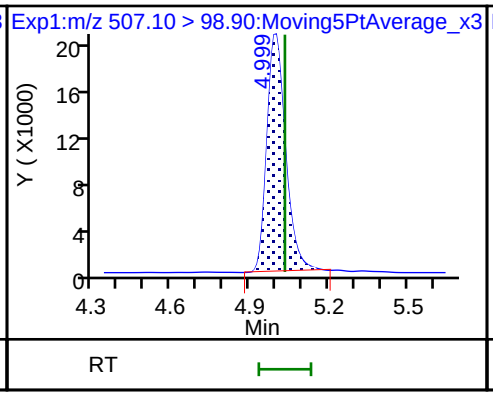

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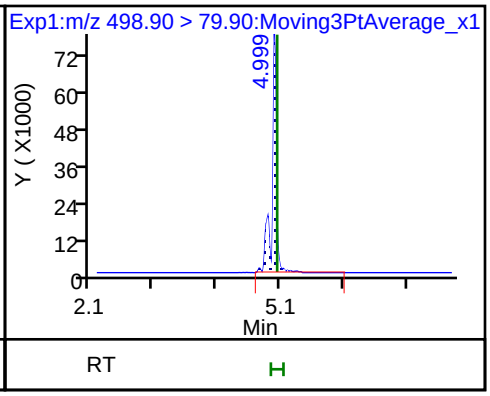

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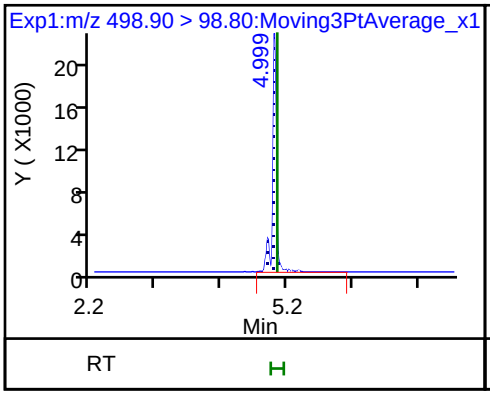

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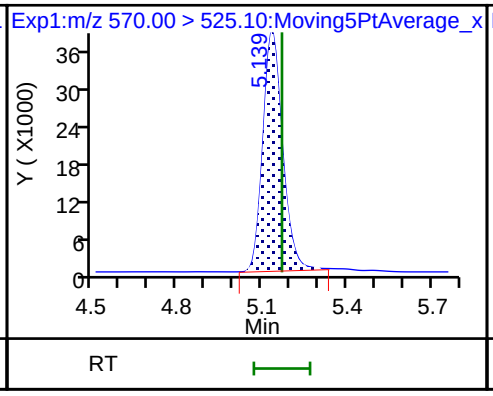

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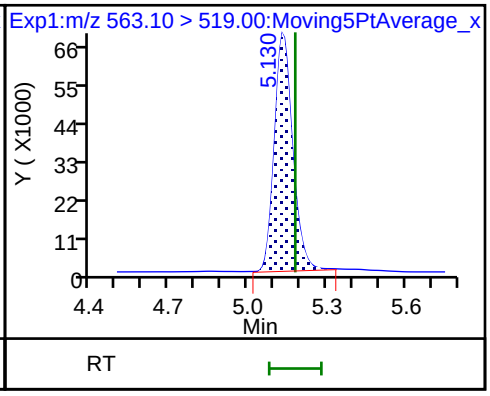

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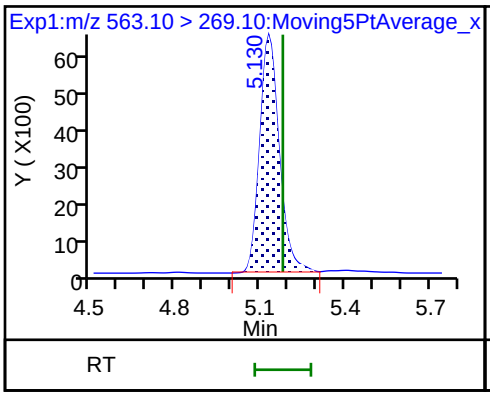
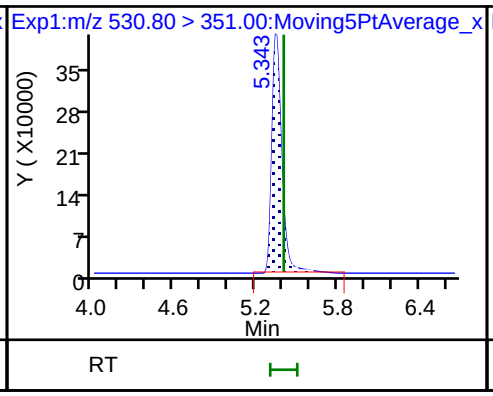


55 9ClFOS



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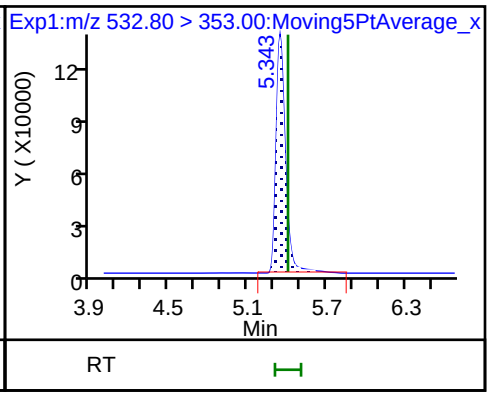
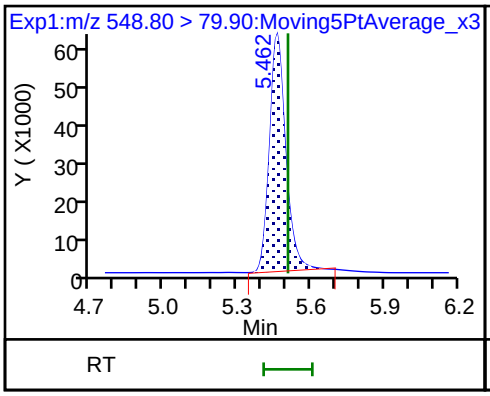


56 PFNS



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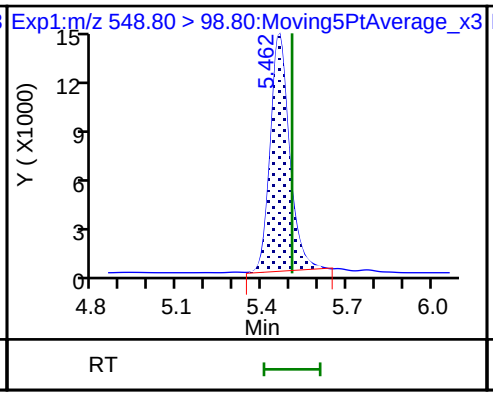

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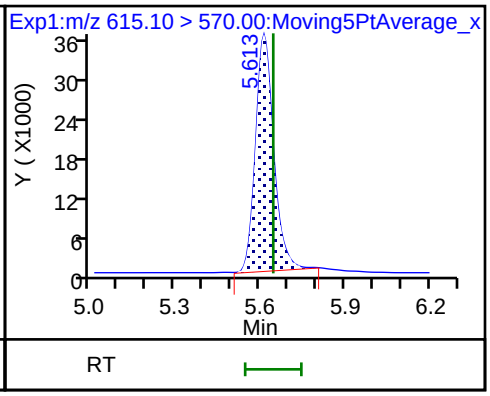

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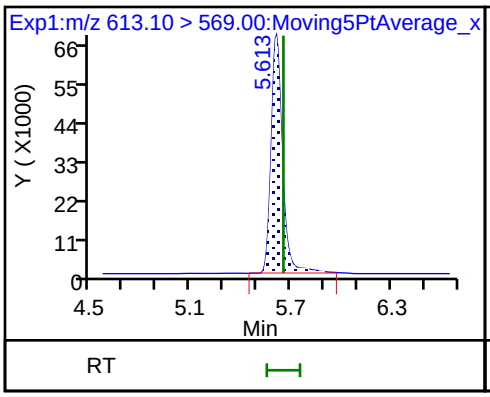

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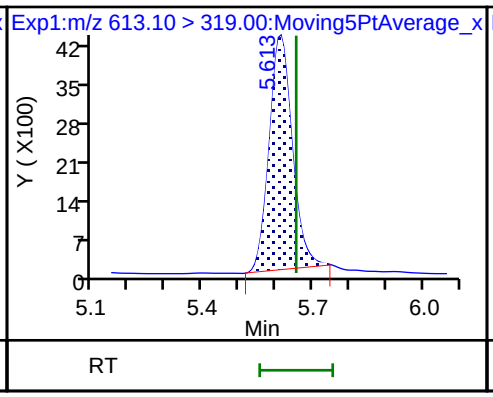

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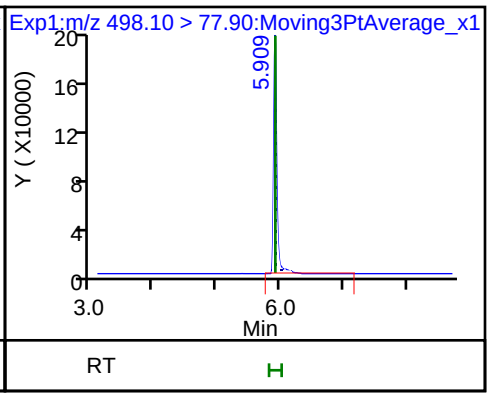

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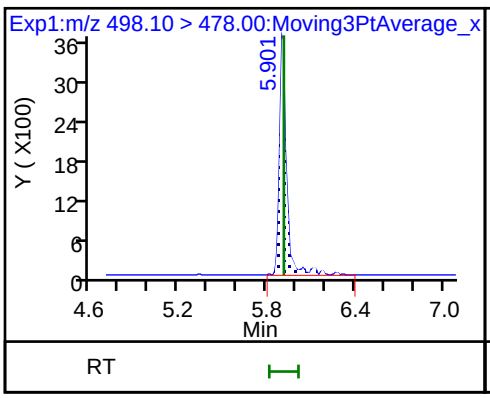

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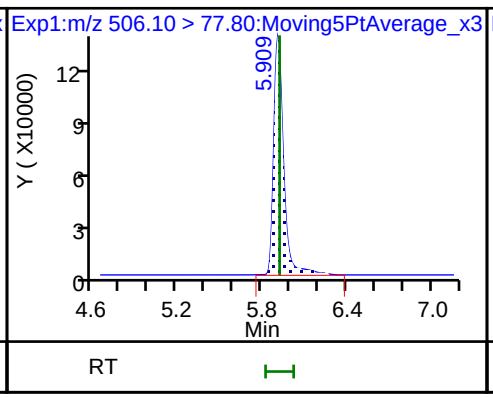
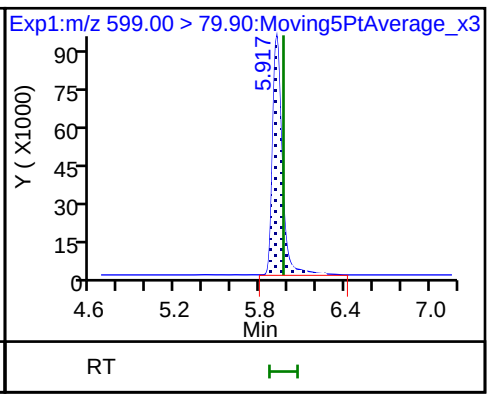


61 PFDS



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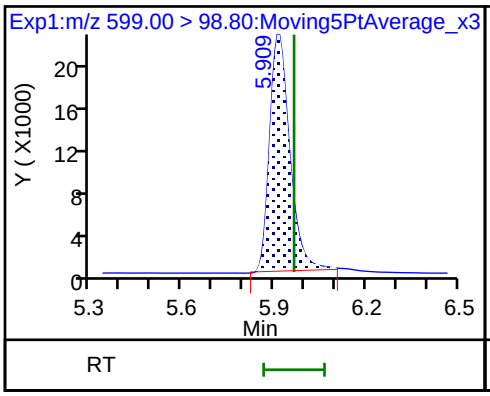

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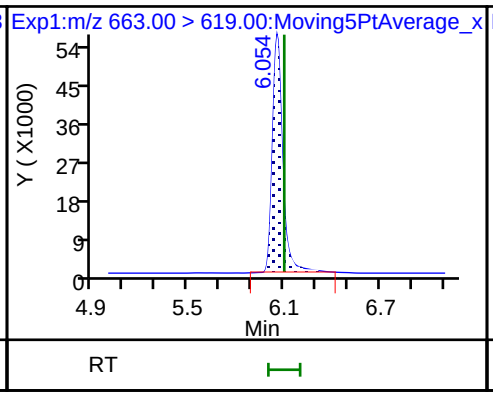

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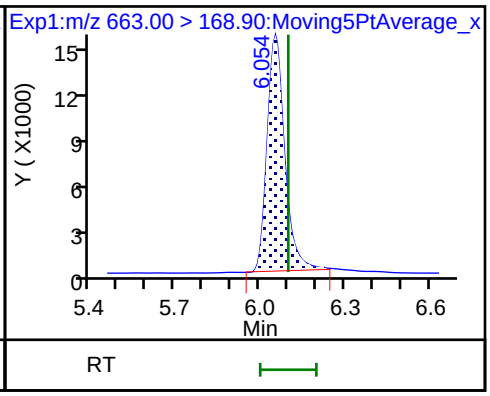
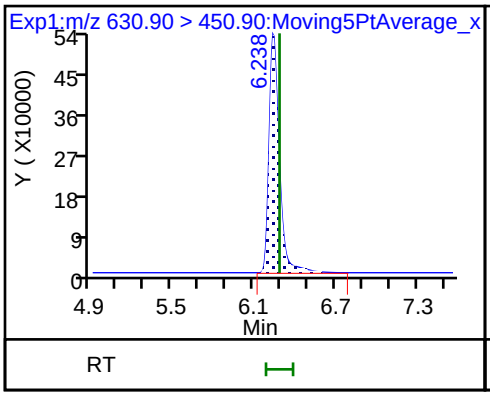
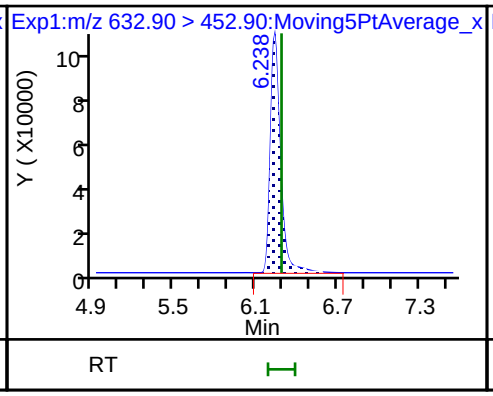


63 11ClFOS



63 11ClFOS



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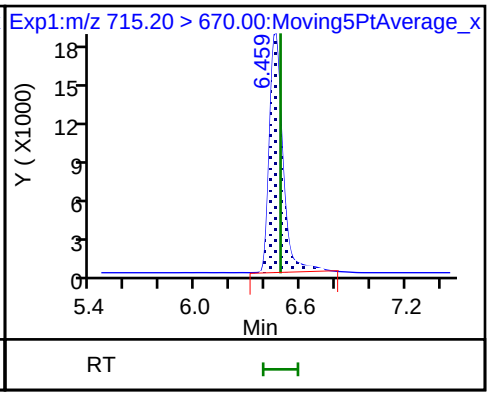
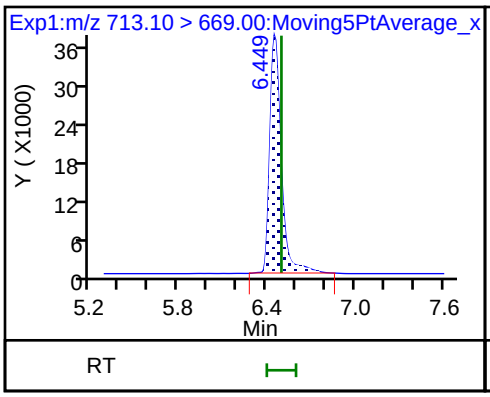


64 PFTeDA



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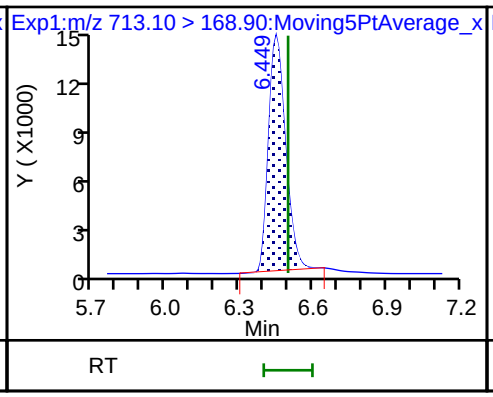
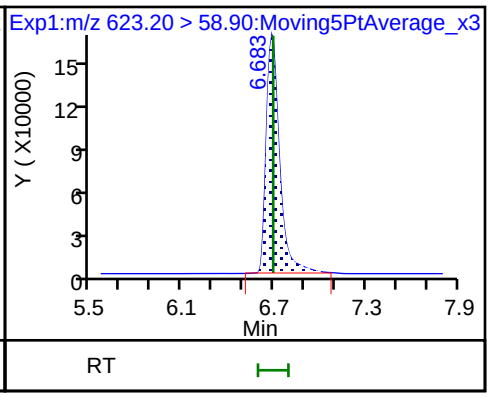
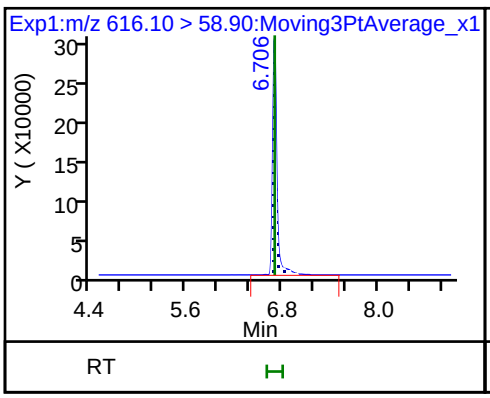


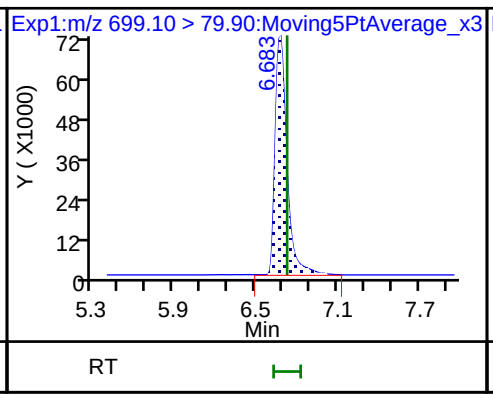
D 67 d7-N-Me-FOSE



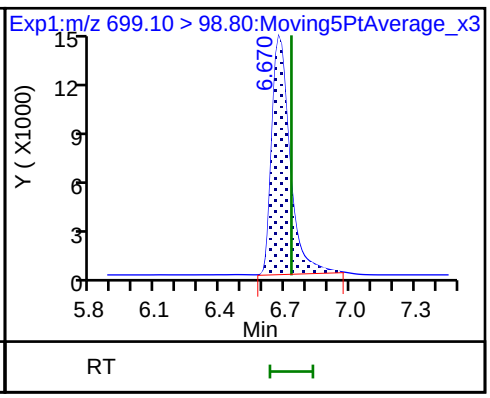
68 N-MeFOSE-M



66 PFDoS



66 PFDoS



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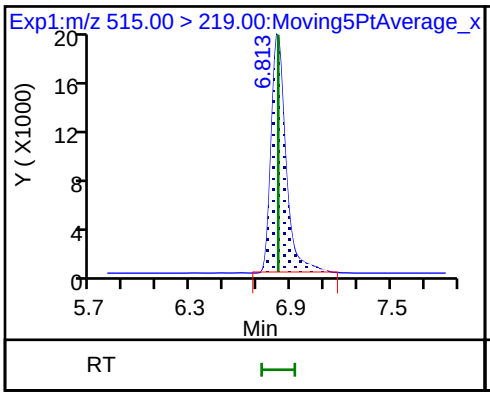

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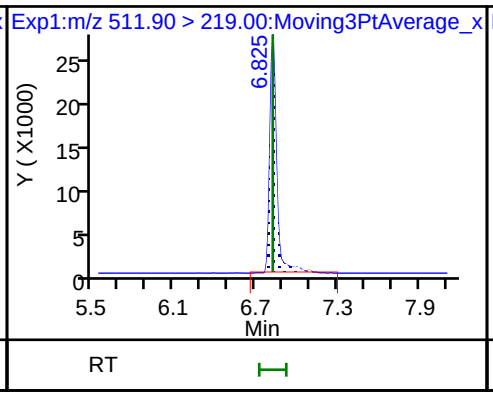
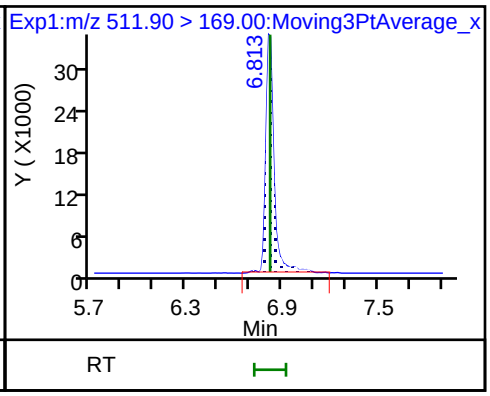
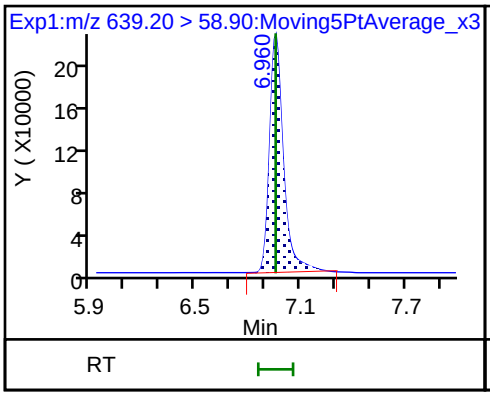


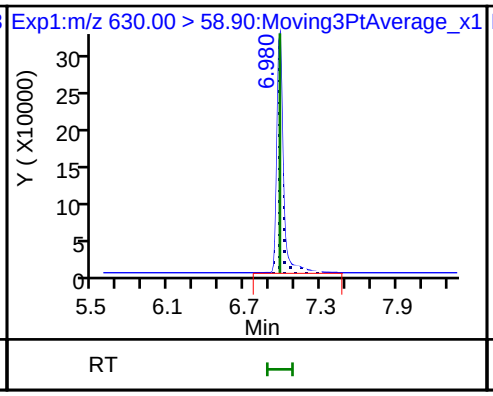
70 NMeFOSA



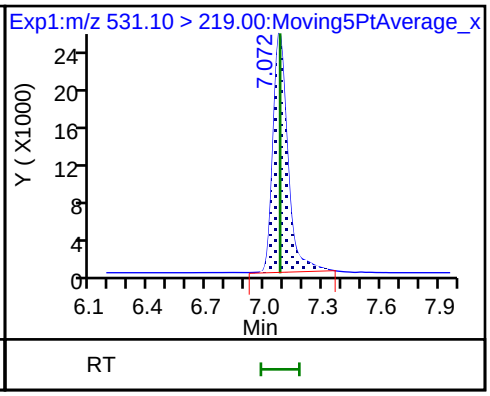
D 71 d9-N-EtFOSE



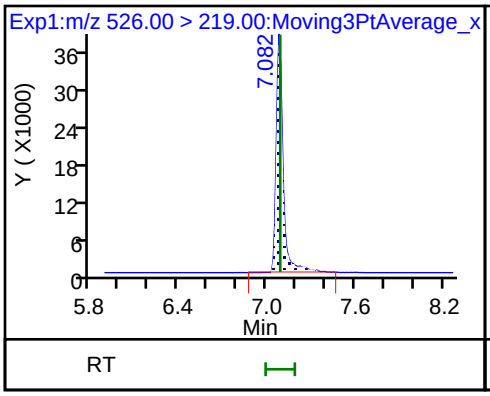
72 N-EtFOSE-M



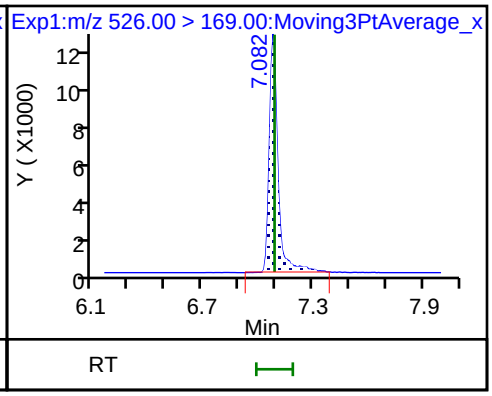
D 73 d5-NEtPFOSA



74 N-EtFOSA-M



74 N-EtFOSA-M



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

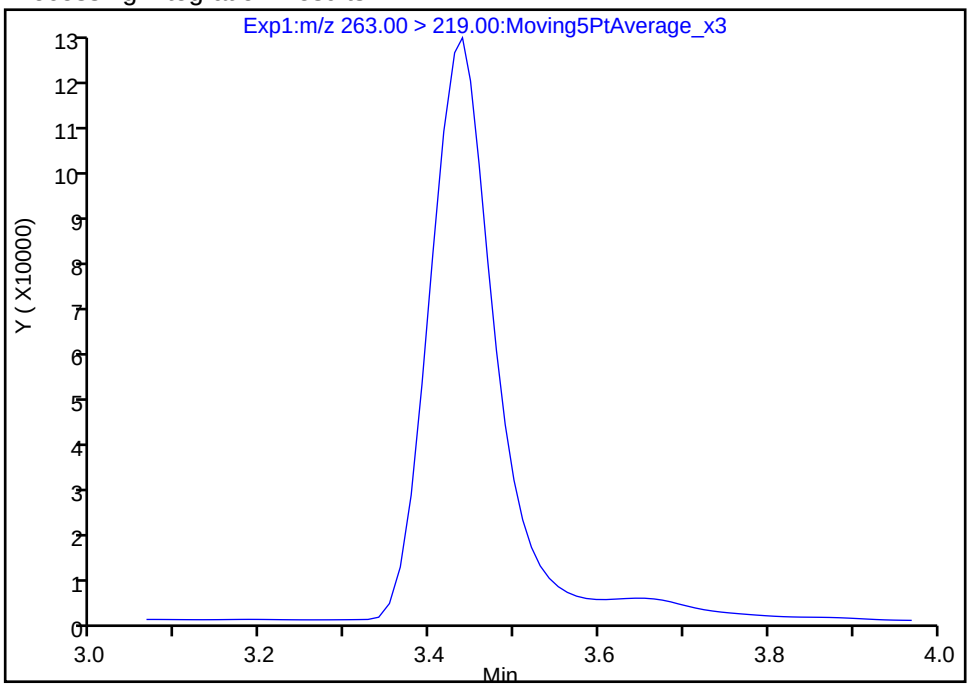
Data File:	\\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-59.d				
Injection Date:	08-Aug-2023 23:11:26	Instrument ID:	30729		
Lims ID:	CCV 6_CAL4				
Client ID:					
Operator ID:	US19_USR_INS20263	ALS Bottle#:	20005	Worklist Smp#:	54
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

6 PFPA, CAS: 2706-90-3

Signal: 1

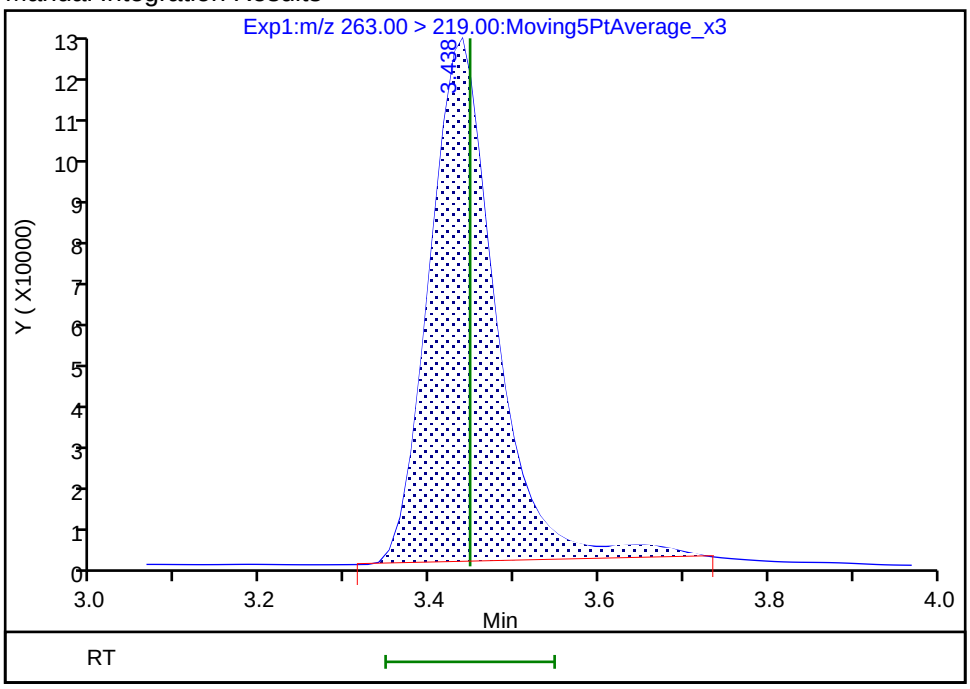
Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.44
Area: 666452
Amount: 4.466171
Amount Units: ng/ml



Reviewer: QY4X, 09-Aug-2023 08:16:28 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

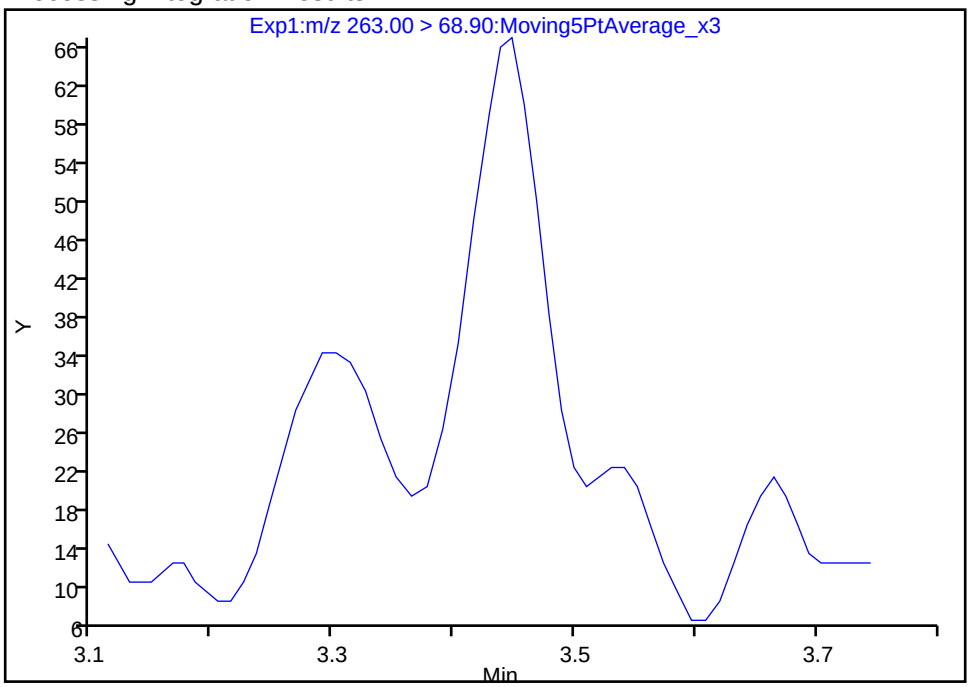
Data File:	\\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-59.d				
Injection Date:	08-Aug-2023 23:11:26	Instrument ID:	30729		
Lims ID:	CCV 6_CAL4				
Client ID:					
Operator ID:	US19_USR_INS20263	ALS Bottle#:	20005	Worklist Smp#:	54
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

6 PFPA, CAS: 2706-90-3

Signal: 2

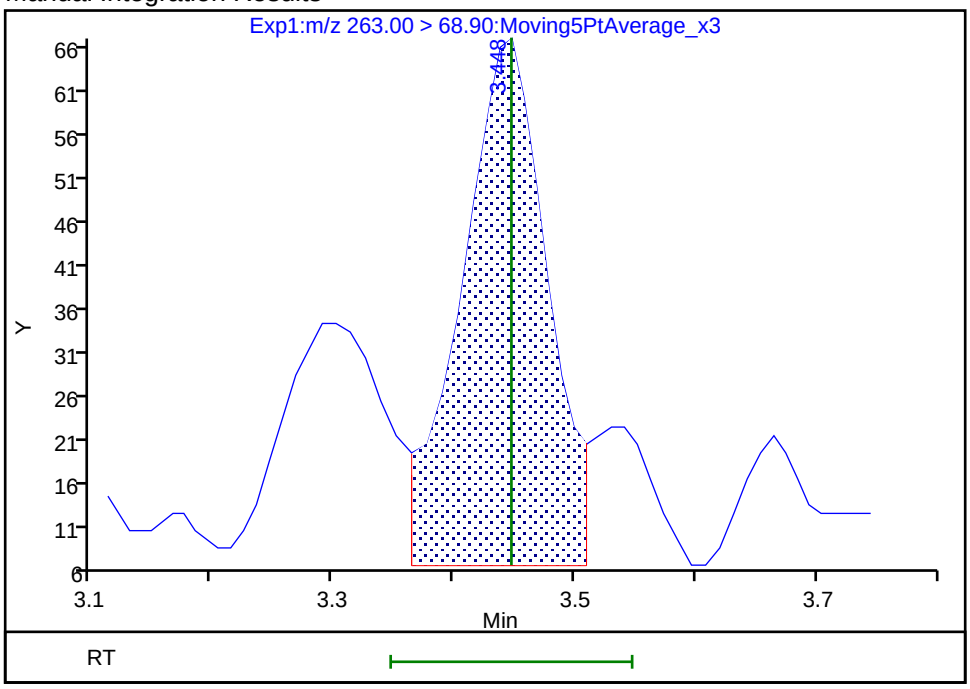
Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.45
Area: 298
Amount: 4.466171
Amount Units: ng/ml



Reviewer: QY4X, 09-Aug-2023 08:16:41 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 460-282979-1

SDG No.:

Lab Sample ID: CCV 410-405691/66 Calibration Date: 08/09/2023 01:48

Instrument ID: 30729 Calib Start Date: 08/05/2023 09:27

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 08/05/2023 11:25

Lab File ID: 23AUG08-71.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid	AveID	0.8351	0.8058		9.65	10.0	-3.5	30.0
3:3 FTCA	AveID	0.0907	0.0805		11.1	12.5	-11.2	30.0
Perfluoro-3-methoxypropanoic acid	AveID	1.812	1.710		4.72	5.00	-5.6	30.0
Perfluoropentanoic acid	AveID	1.811	1.694		4.68	5.00	-6.5	30.0
Perfluoro(4-methoxybutanoic acid)	AveID	1.455	1.442		4.96	5.00	-0.9	30.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	2.677	2.712		9.50	9.38	1.3	30.0
Perfluoro-3,6-dioxaheptanoic acid	AveID	0.7006	0.6887		4.91	5.00	-1.7	30.0
Perfluorohexanoic acid	AveID	5.431	5.531		2.55	2.50	1.8	30.0
5:3 FTCA	AveID	1.607	1.520		59.1	62.5	-5.4	30.0
Perfluorobutanesulfonic acid	AveID	0.6048	0.6327		2.32	2.22	4.6	30.0
HFPO-DA	AveID	0.6844	0.6710		9.80	10.0	-2.0	30.0
PFEESA	AveID	28.68	30.06		4.66	4.45	4.8	30.0
Perfluoroheptanoic acid	AveID	0.9439	0.9649		2.56	2.50	2.2	30.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	1.933	1.915		9.36	9.45	-0.9	30.0
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	AveID	4.563	5.824		12.1	9.50	27.6	30.0
Perfluoropentanesulfonic acid	AveID	0.9858	0.9908		2.37	2.35	0.5	30.0
Perfluorooctanoic acid	AveID	0.4940	0.5026		2.54	2.50	1.7	30.0
Perfluorohexanesulfonic acid	AveID	0.5267	0.5059		2.20	2.29	-3.9	30.0
7:3 FTCA	AveID	1.139	1.137		62.4	62.5	-0.2	30.0
Perfluorononanoic acid	AveID	0.8401	0.9126		2.72	2.50	8.6	30.0
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	AveID	5.615	5.415		9.26	9.60	-3.6	30.0
Perfluoroheptanesulfonic acid	AveID	1.010	0.9691		2.29	2.38	-4.1	30.0
NMeFOSAA	AveID	0.9373	0.9546		2.55	2.50	1.8	30.0
Perfluorodecanoic acid	AveID	0.7111	0.7904		2.78	2.50	11.1	30.0
NEtFOSAA	AveID	0.7481	0.6793		2.27	2.50	-9.2	30.0
Perfluorooctanesulfonic acid	AveID	0.9211	0.8446		2.13	2.32	-8.3	30.0
Perfluoroundecanoic acid	AveID	0.8846	0.8955		2.53	2.50	1.2	30.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	1.782	1.998		10.5	9.35	12.2	30.0
Perfluorononanesulfonic acid	AveID	0.6776	0.7094		2.52	2.41	4.7	30.0
Perfluorododecanoic acid	AveID	0.9435	0.8605		2.28	2.50	-8.8	30.0
Perfluorodecanesulfonic acid	AveID	1.066	1.038		2.35	2.41	-2.6	30.0
Perfluorooctanesulfonamide	AveID	1.032	1.011		2.45	2.50	-2.0	30.0
Perfluorotridecanoic acid	AveID	1.001	0.9338		2.33	2.50	-6.7	30.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	2.383	2.513		9.97	9.45	5.5	30.0
Perfluorotetradecanoic acid	AveID	1.144	1.153		2.52	2.50	0.8	30.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	1.112	0.9751		2.13	2.43	-12.3	30.0

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 460-282979-1

SDG No.:

Lab Sample ID: CCV 410-405691/66 Calibration Date: 08/09/2023 01:48

Instrument ID: 30729 Calib Start Date: 08/05/2023 09:27

GC Column: Gemini C18 50mm ID: 3.00(mm) Calib End Date: 08/05/2023 11:25

Lab File ID: 23AUG08-71.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-(N-methylperfluoro-1-octanesulfonamido) ethanol	AveID	1.112	1.155		26.0	25.0	3.9	30.0
NMeFOSA	AveID	0.7946	0.7610		2.39	2.50	-4.2	30.0
2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	AveID	0.9402	0.9051		24.1	25.0	-3.7	30.0
N-ethylperfluoro-1-octanesulfonamide	AveID	0.9632	0.9107		2.36	2.50	-5.4	30.0
13C4 PFBA	Ave	0.8117	0.8019		9.88	10.0	-1.2	30.0
13C5 PFPeA	Ave	0.7185	0.7908		5.50	5.00	10.1	30.0
M2-4:2 FTS	Ave	0.0734	0.0729		4.65	4.69	-0.8	30.0
13C5 PFHxA	Ave	0.1748	0.1814		2.59	2.50	3.7	30.0
13C3 PFBS	Ave	1.037	0.9470		2.13	2.33	-8.7	30.0
13C3 HFPO-DA	Ave	1.103	1.155		10.5	10.0	4.7	30.0
13C4 PFHpA	Ave	2.096	2.170		2.59	2.50	3.5	30.0
M2-6:2 FTS	Ave	0.0379	0.0292		3.67	4.76	-22.9	30.0
13C8 PFOA	Ave	23.77	22.10		2.32	2.50	-7.0	30.0
13C3 PFHxS	Ave	1.127	1.051		2.21	2.37	-6.7	30.0
13C9 PFNA	Ave	1.056	1.031		1.22	1.25	-2.3	30.0
M2-8:2 FTS	Ave	0.0202	0.0196		4.65	4.80	-3.2	30.0
d3-NMeFOSAA	Ave	0.4974	0.5220		5.25	5.00	4.9	30.0
13C6 PFDA	Ave	1.009	0.9920		1.23	1.25	-1.6	30.0
d5-NEtFOSAA	Ave	0.4628	0.4555		4.92	5.00	-1.6	30.0
13C8 PFOS	Ave	1.425	1.453		2.44	2.40	2.0	30.0
13C7 PFUnA	Ave	0.9271	0.9567		1.29	1.25	3.2	30.0
13C2-PFDoDA	Ave	0.8228	0.9184		1.40	1.25	11.6	30.0
13C8 FOSA	Ave	2.088	2.166		2.59	2.50	3.8	30.0
13C2 PFTeDA	Ave	0.4633	0.4836		1.31	1.25	4.4	30.0
d7-N-MeFOSE-M	Ave	0.3433	0.3153		23.0	25.0	-8.2	30.0
d3-NMePFOSA	Ave	0.4096	0.3956		2.42	2.50	-3.4	30.0
d9-N-EtFOSE-M	Ave	0.4215	0.4072		24.2	25.0	-3.4	30.0
d5-NEtPFOSA	Ave	0.4391	0.4364		2.49	2.50	-0.6	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-71.d
Lims ID: CCV 7_CAL4
Client ID:
Sample Type: CCV
Inject. Date: 09-Aug-2023 01:48:25 ALS Bottle#: 20005 Worklist Smp#: 66
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCV 7_CAL4
Misc. Info.: Plate: 1 Rack: 1 410-0090889-066
Operator ID: US19_USR_INS20263 Instrument ID: 30729
Sublist: chrom-PFAS_30729_1633*sub4

Method: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\PFAS_30729_1633.m
Limit Group: LC - 1633 ICAL
Last Update: 09-Aug-2023 10:02:19 Calib Date: 05-Aug-2023 11:25:28
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-11.d

Column 1 : Det: EXP1
Process Host: CTX1649

First Level Reviewer: QY4X Date: 09-Aug-2023 08:19:17
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4-PFBA										
216.80 > 171.90	2.925	2.932	-0.007	1.000	1309837	9.88		98.8	78368	
* 3 13C3PFBA										
216.00 > 172.00	2.925	2.932	-0.007		816748	5.00			1749	
1 PFBA										
212.80 > 168.90	2.925	2.942	-0.017	1.000	1055530	9.65		96.5	5130	
4 PFMPA										
229.00 > 84.90	3.156	3.167	-0.011	0.919	683904	4.72		94.4	47340	
5 3:3 FTCA										
241.00 > 177.00	3.156	3.167	-0.011	0.919	80539	11.1	Target=1.11	88.8	5734	
241.00 > 117.00	3.156	3.167	-0.011	0.919	77539		1.04(0.55-1.66)		2802	
D 7 13C5 PFPeA										
268.30 > 223.00	3.435	3.444	-0.009	0.916	400027	5.50		110	24546	
6 PFPA										Ma
263.00 > 219.00	3.435	3.447	-0.012	1.000	677452	4.68	Target=1273.32	93.5	17776	a
263.00 > 68.90	3.435	3.447	-0.012	1.000	376		1801.73(636.66-1909.99)		27.0	M
8 PFMBA										
279.00 > 85.10	3.548	3.562	-0.014	1.033	576708	4.95		99.1	36167	
D 10 13C2-4:2FTS										
329.10 > 80.90	3.627	3.638	-0.011	0.826	69047	4.65	Target=0.35	99.2	4449	
329.10 > 309.00	3.616	3.638	-0.022	0.823	201735		0.34(0.18-0.53)	99.2	11937	
9 4:2FTS										
327.10 > 307.00	3.627	3.642	-0.015	1.000	374362	9.50	Target=1.40	101	22766	
327.10 > 80.90	3.627	3.642	-0.015	1.000	236837		1.58(0.70-2.10)		14307	
12 NFDHA										
295.00 > 201.00	3.719	3.734	-0.015	0.992	63177	4.91	Target=2.17	98.3	4264	
295.00 > 84.90	3.719	3.734	-0.015	0.992	28069		2.25(1.08-3.25)		1920	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 14 13C5 PFHxA										
318.00 > 273.00	3.750	3.750	0.0	1.000	45870	2.59	Target=15.34	104	3002	
318.00 > 120.30	3.740	3.750	-0.010	0.997	3751		12.23(7.67-23.01)	104	269	
* 15 13C2 PFHxA										
315.10 > 270.00	3.750	3.750	0.0		252934	2.50	Target=103.53		16329	
315.10 > 119.40	3.740	3.750	-0.010		1719		147.14(51.76-155.29)		112	
13 PFHxA										
313.00 > 269.00	3.740	3.755	-0.015	0.997	253697	2.55	Target=13.63	102	12368	
313.00 > 118.90	3.740	3.755	-0.015	0.997	22720		11.17(6.82-20.45)		1532	
D 18 13C3 PFBS										
302.10 > 79.90	3.845	3.856	-0.011	0.875	445918	2.13	Target=6.99	91.3	27159	
302.10 > 98.90	3.845	3.856	-0.011	0.875	67137		6.64(3.50-10.49)	91.3	4281	
17 PFBS										
298.70 > 79.90	3.845	3.860	-0.015	1.000	268489	2.32	Target=3.41	105	16554	
298.70 > 98.80	3.845	3.860	-0.015	1.000	85778		3.13(1.70-5.11)		5460	
16 5:3 FTCA										
341.00 > 237.10	3.845	3.860	-0.015	1.025	1743218	59.1	Target=2.68	94.6	104966	
341.00 > 217.00	3.845	3.860	-0.015	1.025	646754		2.70(1.34-4.01)		40076	
D 20 13C3 HFPO-DA										
286.90 > 168.90	3.867	3.867	0.0	1.031	1168558	10.5	Target=29.00	105	70101	
286.90 > 184.90	3.856	3.867	-0.011	1.028	39015		29.95(14.50-43.50)	105	2548	
19 HFPO-DA										
284.90 > 168.90	3.867	3.872	-0.005	1.000	784157	9.80	Target=17.67	98.0	4980	
284.90 > 184.90	3.856	3.872	-0.016	0.997	40036		19.59(8.84-26.51)		2597	
23 PFEESA										
314.80 > 134.90	3.997	4.012	-0.015	1.066	2454593	4.66	Target=14.15	105	118658	
314.80 > 82.90	3.986	4.012	-0.026	1.063	175009		14.03(7.08-21.23)		5525	
D 25 13C4 PFHpA										
367.10 > 322.00	4.008	4.018	-0.010	1.069	548872	2.59		104	34437	
24 PFHpA										
363.10 > 319.00	4.008	4.022	-0.014	1.000	529624	2.56	Target=3.62	102	24084	
363.10 > 169.00	3.997	4.022	-0.025	0.997	137384		3.86(1.81-5.44)		8716	
26 ADONA										
376.90 > 250.90	4.095	4.111	-0.016	1.059	2115220	9.36	Target=12.84	99.1	97169	
376.90 > 84.80	4.084	4.111	-0.027	1.056	167462		12.63(6.42-19.27)		10233	
D 29 13C2-6:2FTS										
429.10 > 80.90	4.118	4.129	-0.011	0.938	28084	3.66	Target=0.12	77.1	1655	
429.10 > 409.00	4.107	4.129	-0.022	0.935	188717		0.15(0.06-0.18)	77.1	11381	
27 6:2FTS										
427.10 > 407.00	4.118	4.132	-0.014	1.000	326770	12.1	Target=1.71	128	19652	
427.10 > 80.90	4.118	4.132	-0.014	1.000	198744		1.64(0.85-2.56)		11902	
28 PFPeS										
349.10 > 79.90	4.140	4.155	-0.015	0.943	495193	2.36	Target=3.85	101	29578	
349.10 > 98.90	4.140	4.155	-0.015	0.943	139506		3.55(1.93-5.78)		8380	
32 PFOA										
413.00 > 369.00	4.240	4.250	-0.010	1.000	295172	2.54	Target=2.36	102	420	
413.00 > 169.00	4.240	4.250	-0.010	1.000	126609		2.33(1.18-3.53)		344	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 30 13C4 PFOA										
417.10 > 172.00	4.240	4.261	-0.021		26582	2.50			1640	
D 31 13C8 PFOA										
421.10 > 376.00	4.240	4.261	-0.021	1.000	587334	2.32		93.0	36387	
* 35 18O2 PFHxS										
403.00 > 83.90	4.392	4.401	-0.009		478942	2.37			32508	
D 36 13C3 PFHxS										
402.10 > 79.90	4.392	4.411	-0.019	1.000	503503	2.21	Target=3.90	93.3	33330	
402.10 > 98.80	4.392	4.411	-0.019	1.000	127659		3.94(1.95-5.85)	93.3	8448	
34 PFHxS										
398.70 > 79.90	4.392	4.413	-0.021	1.000	245596	2.19	Target=3.39	96.1	1136	
398.70 > 98.90	4.392	4.413	-0.021	1.000	70988		3.46(1.69-5.08)		363	
33 7:3 FTCA										
441.00 > 316.90	4.420	4.434	-0.014	1.179	1304100	62.4	Target=0.66	99.8	86125	
441.00 > 336.90	4.420	4.434	-0.014	1.179	1931036		0.68(0.33-1.00)		124850	
D 38 13C9 PFNA										
472.10 > 427.00	4.483	4.493	-0.010	1.002	151053	1.22		97.7	7558	
* 37 13C5 PFNA										
468.00 > 423.00	4.473	4.493	-0.020		146451	1.25			7425	
39 PFNA										
463.00 > 419.00	4.483	4.493	-0.010	1.000	275717	2.72	Target=5.25	109	554	
463.00 > 219.00	4.473	4.493	-0.020	0.998	56451		4.88(2.63-7.88)		128	
D 41 13C2-8:2FTS										
529.10 > 80.90	4.592	4.601	-0.009	1.045	19017	4.65	Target=0.14	96.8	1330	
529.10 > 509.00	4.582	4.601	-0.019	1.043	136287		0.14(0.07-0.21)	96.8	8987	
40 8:2FTS										
527.10 > 507.00	4.592	4.614	-0.022	1.000	205938	9.26	Target=1.21	96.4	10410	
527.10 > 80.80	4.582	4.614	-0.032	0.998	184999		1.11(0.60-1.81)		12617	
42 PFHpS										
449.00 > 79.90	4.662	4.685	-0.023	0.931	406926	2.29	Target=3.73	95.9	20206	
449.00 > 98.80	4.662	4.685	-0.023	0.931	103302		3.94(1.86-5.59)		6602	
D 44 d3-NMeFOSAA										
573.20 > 419.00	4.703	4.723	-0.020	0.940	316501	5.25		105	12715	
43 NMeFOSAA										
570.10 > 419.00	4.713	4.725	-0.012	1.002	151061	2.55	Target=1.77	102	41712	
570.10 > 483.00	4.703	4.725	-0.022	1.000	78487		1.92(0.89-2.66)		412	
* 46 13C2 PFDA										
515.10 > 470.10	4.759	4.778	-0.019		194387	1.25			9878	
D 47 13C6 PFDA										
519.10 > 474.10	4.759	4.778	-0.019	1.000	192832	1.23		98.4	12979	
45 PFDA										
512.90 > 469.00	4.759	4.781	-0.022	1.000	304821	2.78	Target=6.01	111	10727	
512.90 > 219.00	4.750	4.781	-0.031	0.998	51236		5.95(3.00-9.01)		3475	
D 49 d5-NEtFOSAA										
589.20 > 419.00	4.856	4.874	-0.018	0.970	276178	4.92		98.4	13842	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
48 NEtFOSAA										
584.20 > 419.10	4.865	4.886	-0.021	1.002	93802	2.27	Target=1.68	90.8	177	
584.20 > 526.00	4.856	4.886	-0.030	1.000	60402		1.55(0.84-2.53)		125	
* 52 13C4 PFOS										
502.80 > 79.90	5.005	5.033	-0.028		290439	2.40	Target=4.18		11754	
502.80 > 98.90	4.996	5.033	-0.037		81575		3.56(2.09-6.27)		5615	
D 51 13C8 PFOS										
507.10 > 79.90	5.005	5.033	-0.028	1.000	422114	2.44	Target=3.96	102	14249	
507.10 > 98.90	4.996	5.033	-0.037	0.998	104535		4.04(1.98-5.94)	102	7126	
50 PFOS										
498.90 > 79.90	5.005	5.044	-0.039	1.000	345361	2.13	Target=4.55	91.7	2368	
498.90 > 98.80	5.005	5.044	-0.039	1.000	78794		4.38(2.28-6.83)		622	
D 54 13C7 PFUnA										
570.00 > 525.10	5.135	5.170	-0.035	1.079	185970	1.29		103	9336	
53 PFUnA										
563.10 > 519.00	5.135	5.180	-0.045	1.000	333066	2.53	Target=11.29	101	17003	
563.10 > 269.10	5.135	5.180	-0.045	1.000	29833		11.16(5.64-16.93)		2077	
55 9ClFOS										
530.80 > 351.00	5.348	5.404	-0.056	1.383	2183115	10.5	Target=3.20	112	144774	
532.80 > 353.00	5.348	5.404	-0.056	1.383	654833		3.33(1.60-4.81)		42974	
56 PFNS										
548.80 > 79.90	5.460	5.506	-0.046	1.091	300706	2.52	Target=4.70	105	20694	
548.80 > 98.80	5.460	5.506	-0.046	1.091	66787		4.50(2.35-7.05)		4745	
D 58 PFDoDA										
615.10 > 570.00	5.618	5.646	-0.028	1.180	178530	1.40		112	13025	
57 PFDoA										
613.10 > 569.00	5.610	5.654	-0.044	0.999	307238	2.28	Target=16.23	91.2	16226	
613.10 > 319.00	5.610	5.654	-0.044	0.999	21396		14.36(8.12-24.35)		1654	
60 PFOSA										
498.10 > 77.90	5.915	5.915	0.0	1.000	663816	2.45	Target=58.34	98.0	11092	
498.10 > 478.00	5.907	5.915	-0.008	0.999	11176		59.40(29.17-87.51)		259	
D 59 13C8 FOSA										
506.10 > 77.80	5.915	5.923	-0.008	1.182	656759	2.59		104	44847	
61 PFDS										
599.00 > 79.90	5.915	5.965	-0.050	1.182	441213	2.35	Target=4.36	97.4	30816	
599.00 > 98.80	5.915	5.965	-0.050	1.182	99946		4.41(2.18-6.54)		5720	
62 PFTrDA										
663.00 > 619.00	6.058	6.099	-0.041	0.938	254493	2.33	Target=3.59	93.3	19000	
663.00 > 168.90	6.058	6.099	-0.041	0.938	67579		3.77(1.79-5.38)		5197	
63 11ClFOS										
630.90 > 450.90	6.244	6.288	-0.044	1.615	2774748	9.97	Target=5.30	105	176978	
632.90 > 452.90	6.235	6.288	-0.053	1.612	496935		5.58(2.65-7.95)		31707	
D 65 13C2 PFTeDA										
715.20 > 670.00	6.455	6.485	-0.030	1.356	94007	1.30		104	6360	
64 PFTeDA										
713.10 > 669.00	6.455	6.498	-0.043	1.000	216721	2.52	Target=3.31	101	13810	
713.10 > 168.90	6.455	6.498	-0.043	1.000	59791		3.62(1.66-4.97)		3842	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 67 d7-N-Me-FOSE										
623.20 > 58.90	6.679	6.692	-0.013	1.334	955975	23.0		91.8	38654	
68 N-MeFOSE-M										
616.10 > 58.90	6.704	6.704	0.0	1.004	1104473	26.0		104	9434	
66 PFDoS										
699.10 > 79.90	6.679	6.729	-0.050	1.334	416747	2.13	Target=4.96	87.7	22987	
699.10 > 98.80	6.666	6.729	-0.063	1.332	83280		5.00(2.48-7.44)		4652	
D 69 d3-NMePFOSA										
515.00 > 219.00	6.823	6.823	0.0	1.363	119939	2.41		96.6	6634	
70 NMeFOSA										
511.90 > 219.00	6.823	6.823	0.0	1.000	91268	2.39	Target=0.78	95.8	1911	
511.90 > 169.00	6.823	6.823	0.0	1.000	114879		0.79(0.39-1.17)		1213	
D 71 d9-N-EtFOSE										
639.20 > 58.90	6.957	6.957	0.0	1.390	1234461	24.2		96.6	37587	
72 N-EtFOSE-M										
630.00 > 58.90	6.977	6.978	-0.001	1.003	1117316	24.1		96.3	13358	
D 73 d5-NEtPFOSA										
531.10 > 219.00	7.079	7.080	-0.001	1.414	132300	2.48		99.4	8396	
74 N-EtFOSA-M										
526.00 > 219.00	7.079	7.090	-0.011	1.000	120491	2.36	Target=3.00	94.6	1723	
526.00 > 169.00	7.079	7.090	-0.011	1.000	39614		3.04(1.50-4.50)		691	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

PFC_STD4_1633_00012 Amount Added: 1.00 Units: mL

Report Date: 09-Aug-2023 10:02:25 Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-71.d

Injection Date: 09-Aug-2023 01:48:25 Instrument ID: 30729

Lims ID: CCV 7_CAL4

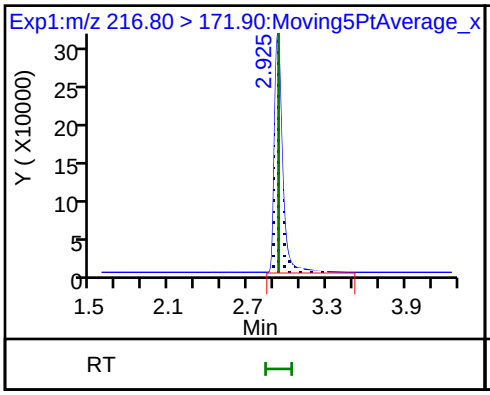
Client ID:

Operator ID: US19_USR_INS20263 ALS Bottle#: 20005 Worklist Smp#: 66

Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: PFAS_30729_1633 Limit Group: LC - 1633 ICAL

D 2 13C4-PFBA



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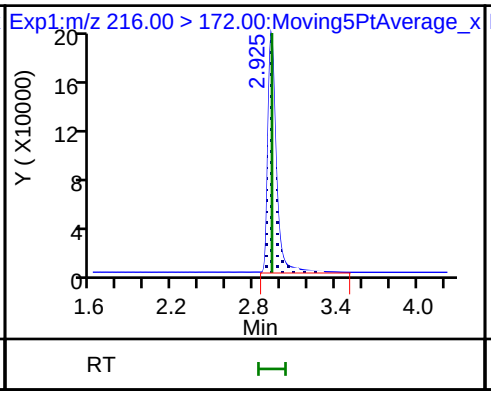

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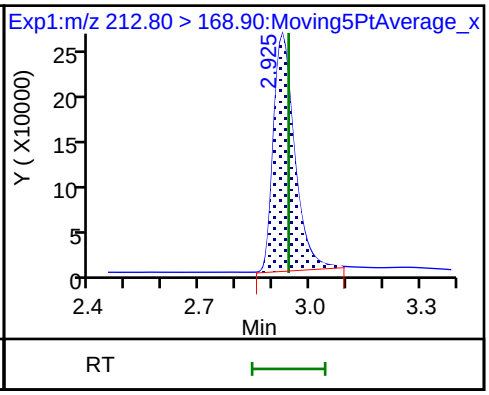

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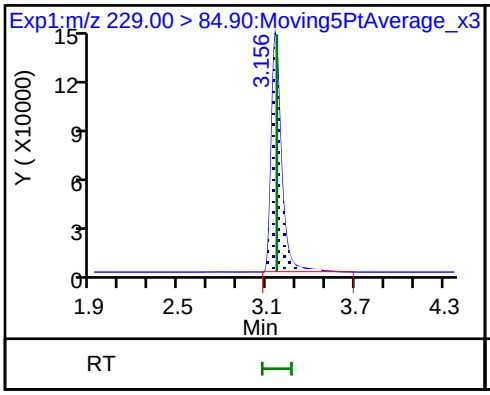

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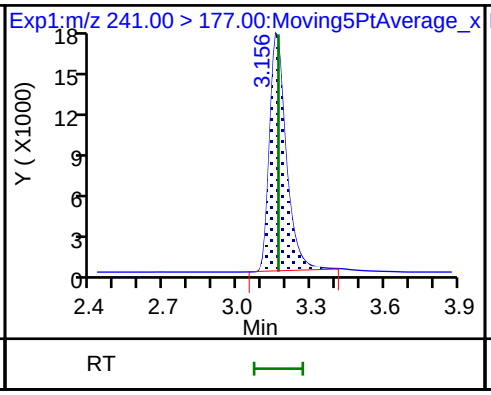
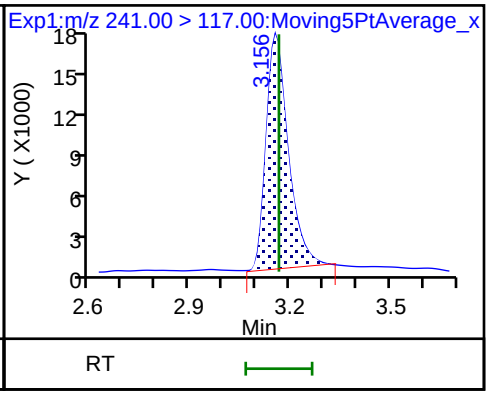
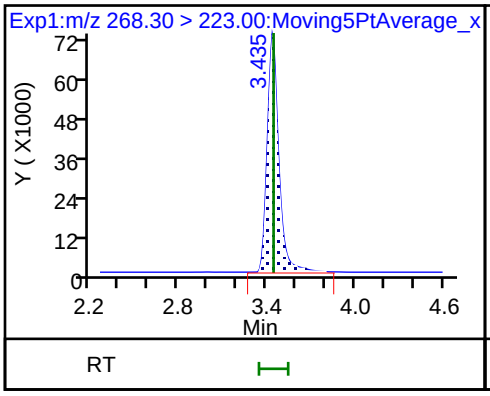


5 3:3 FTCA



D 7 13C5 PFPeA



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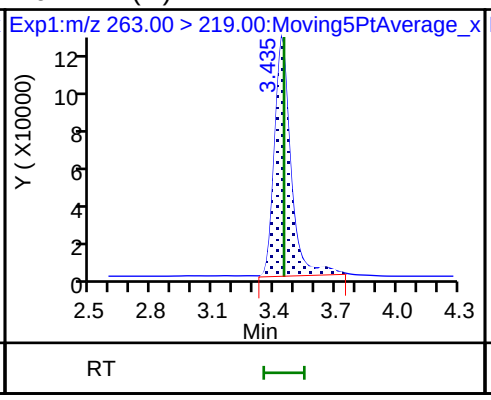
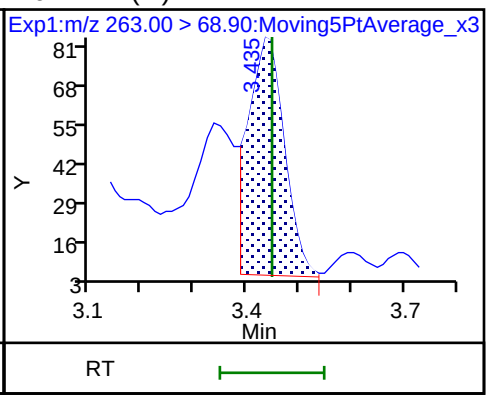
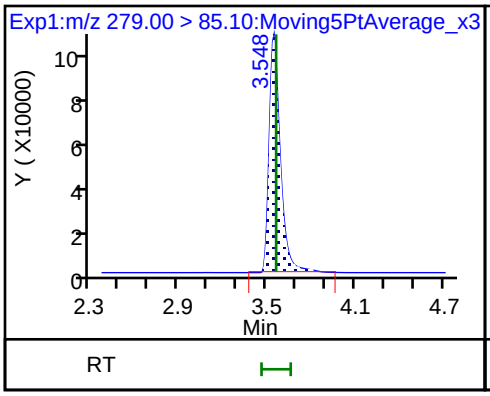


6 PFPA (M)



8 PFMBA



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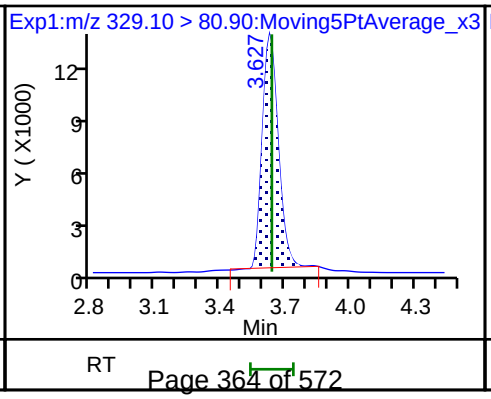

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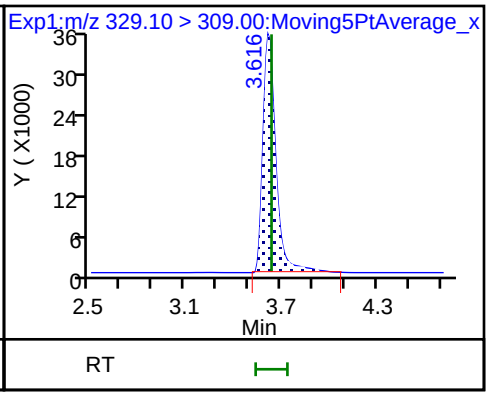

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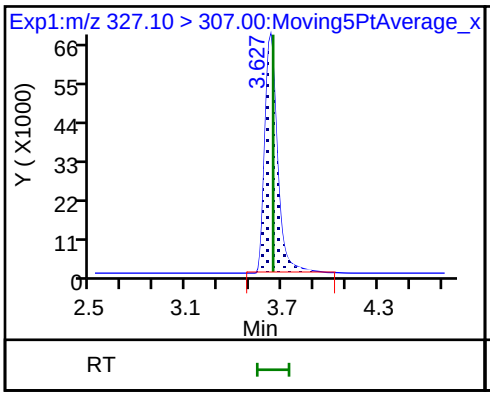

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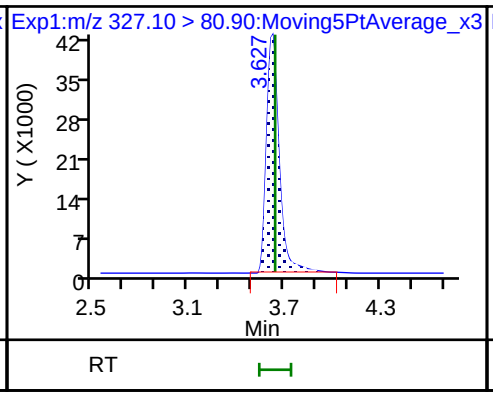
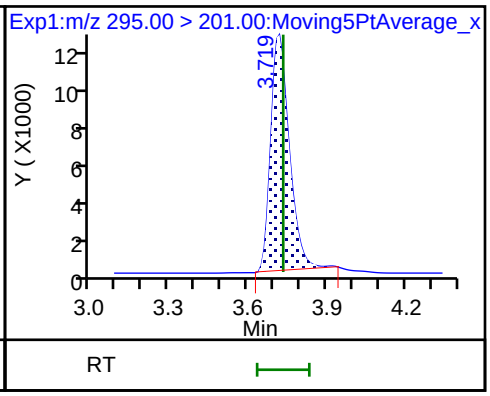
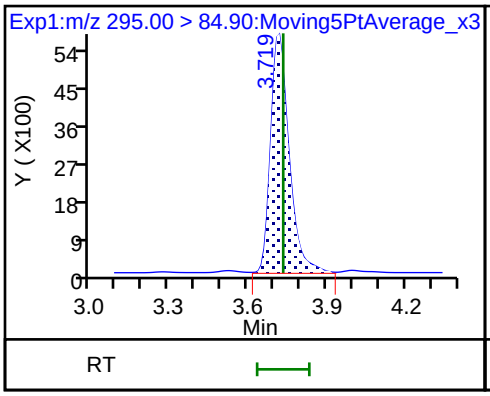


12 NFDHA



12 NFDHA



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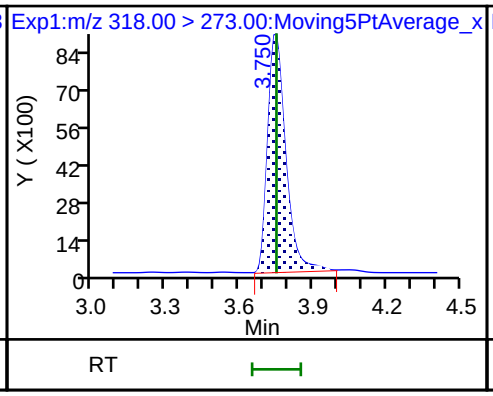

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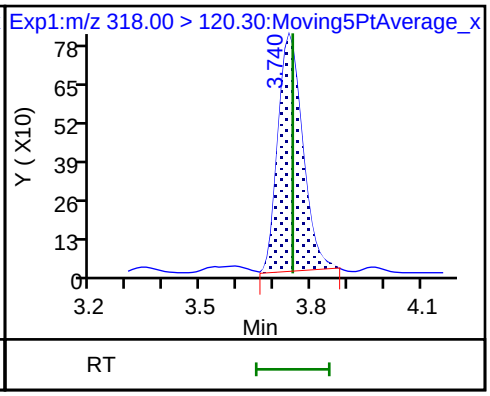

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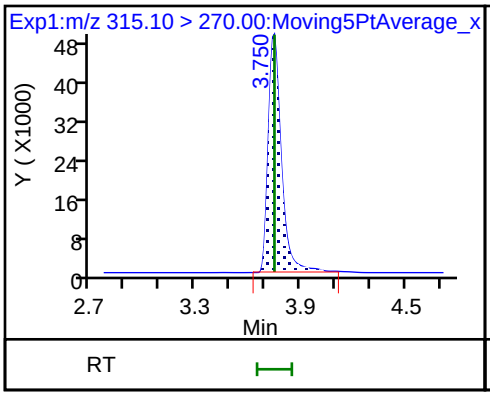

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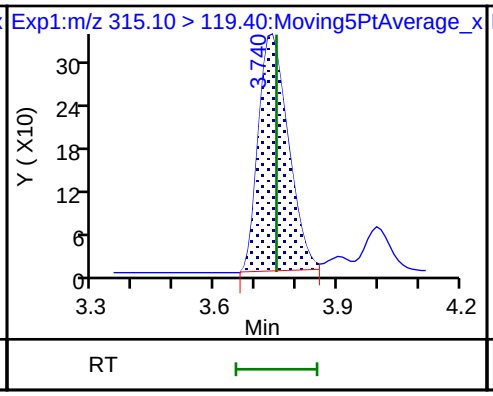
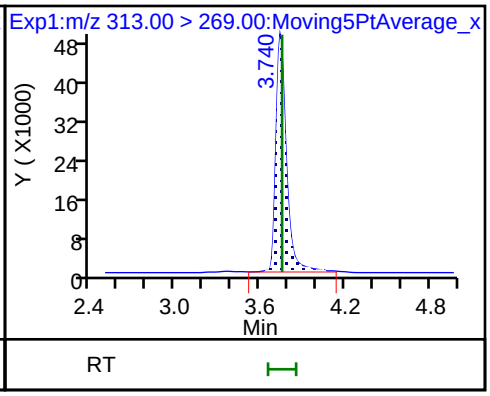
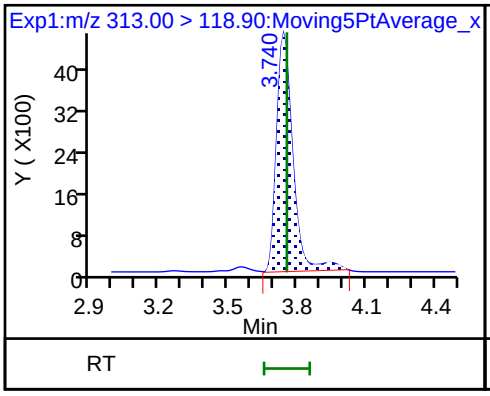


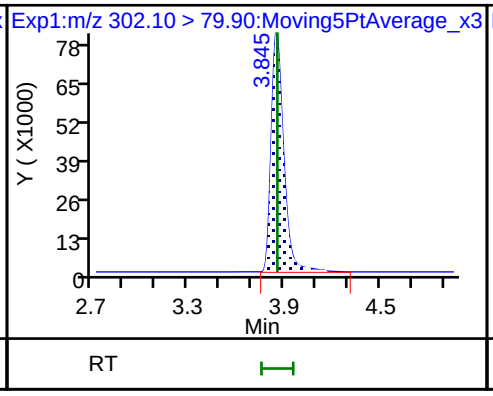
13 PFHxA



13 PFHxA



D 18 13C3 PFBS



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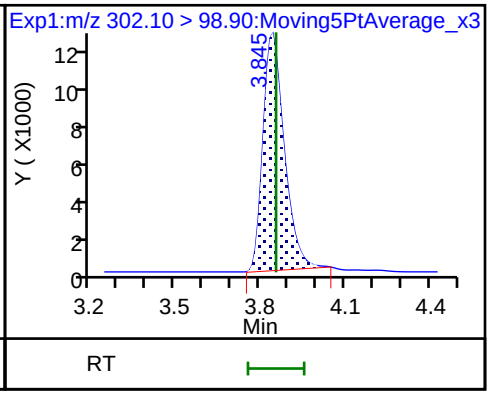

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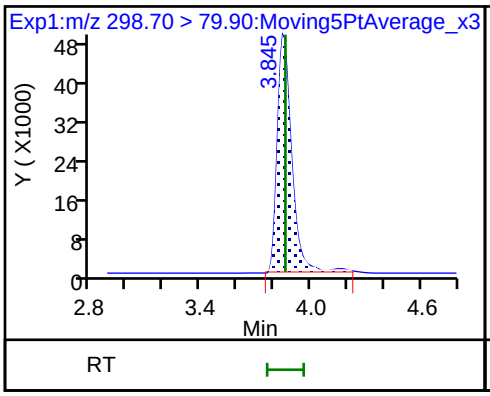

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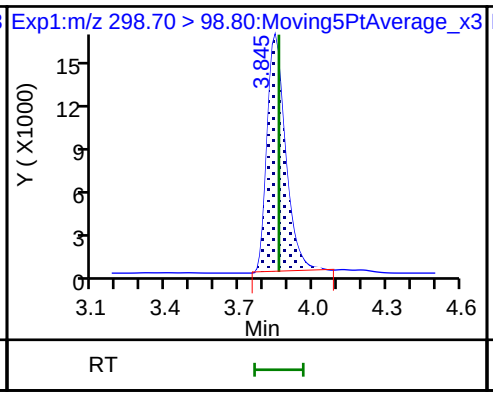

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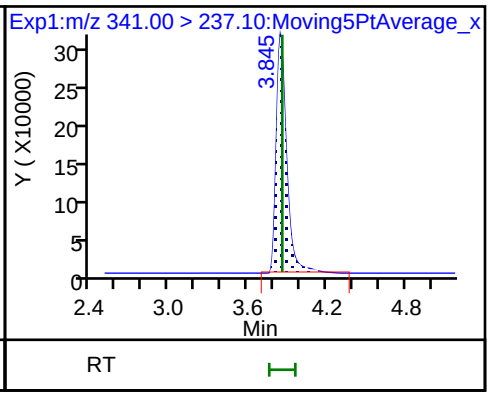
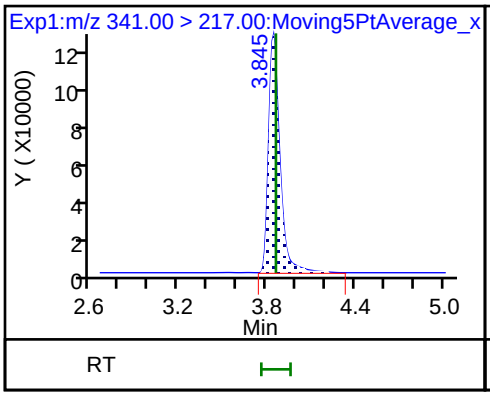
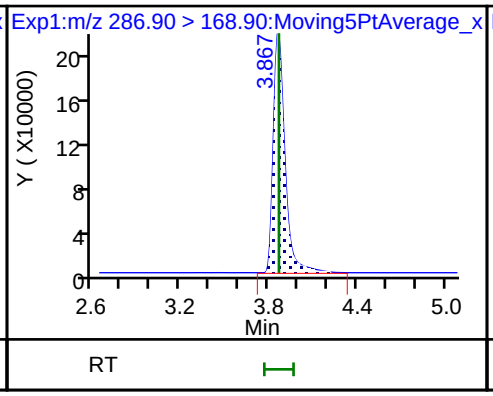


16 5:3 FTCA



D 20 13C3 HFPO-DA



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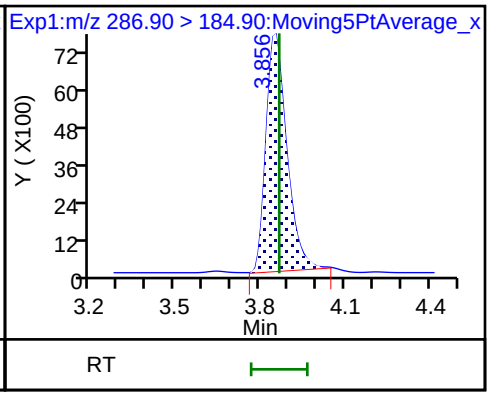
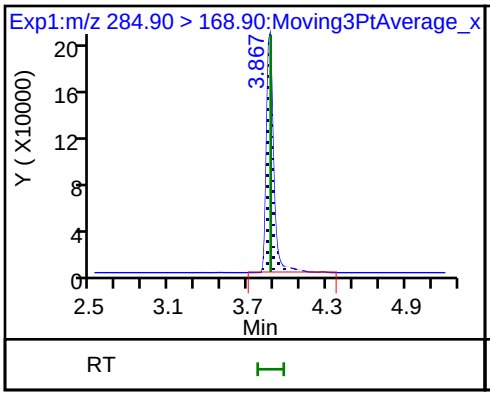


19 HFPO-DA



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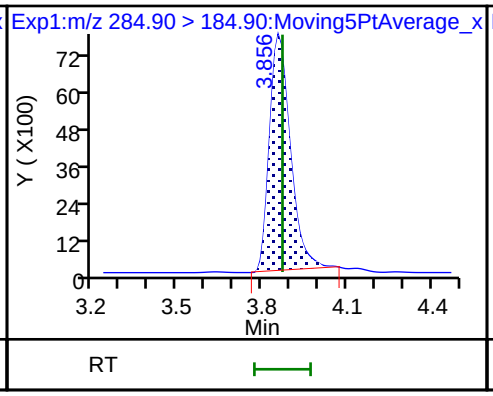
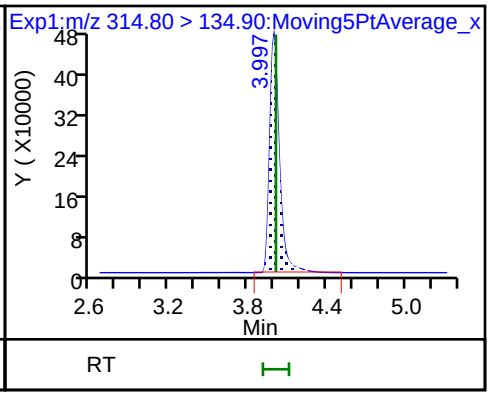


23 PFEESA



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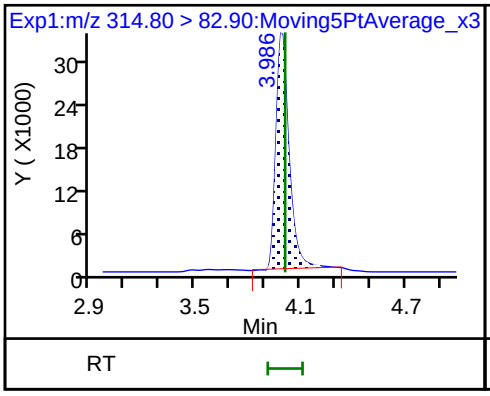
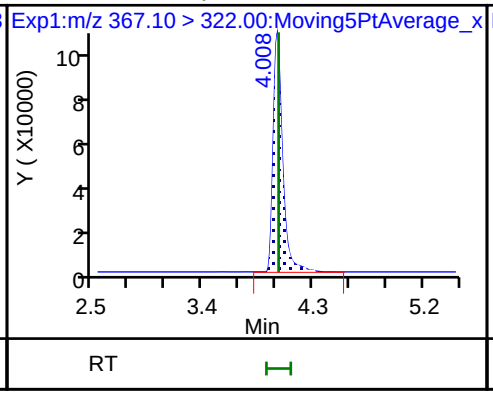


D 25 13C4 PFHpA



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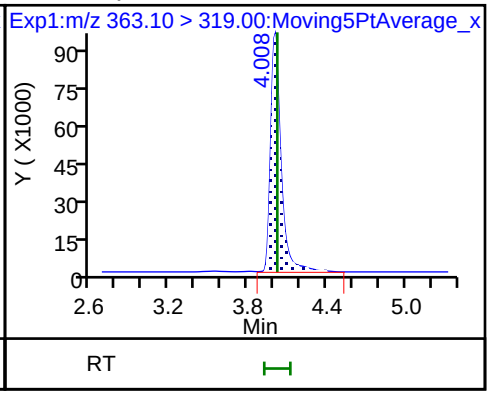

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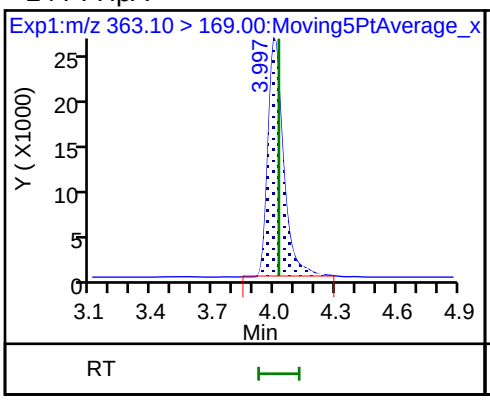
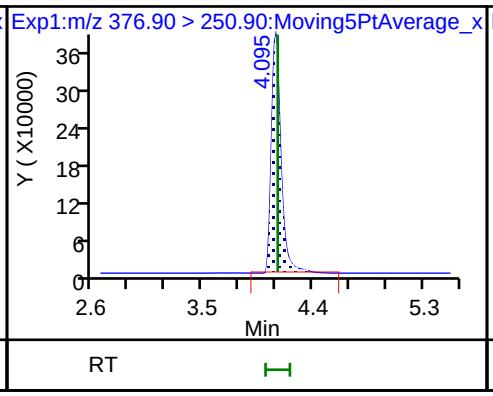


26 ADONA



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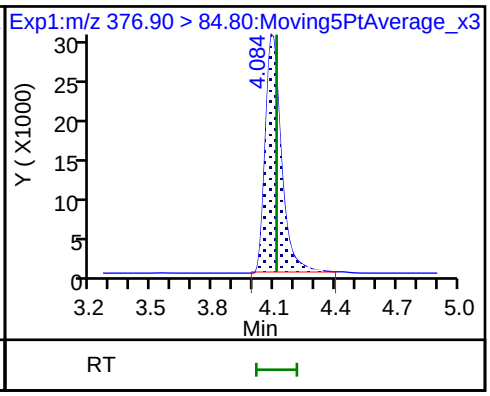
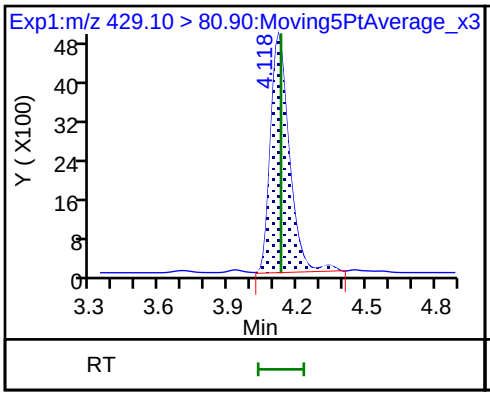


D 29 13C2-6:2FTS



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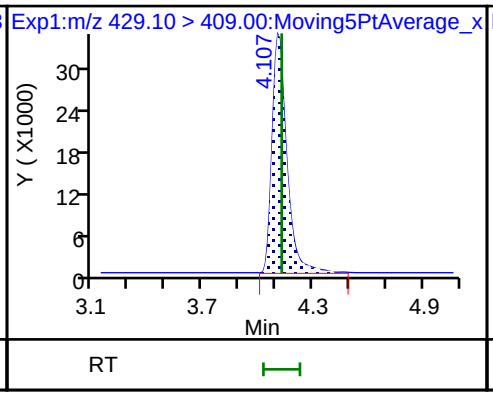
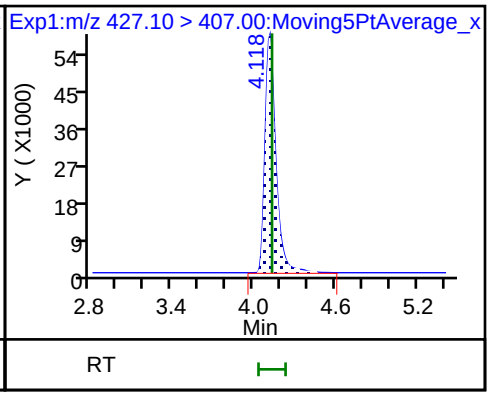


27 6:2FTS



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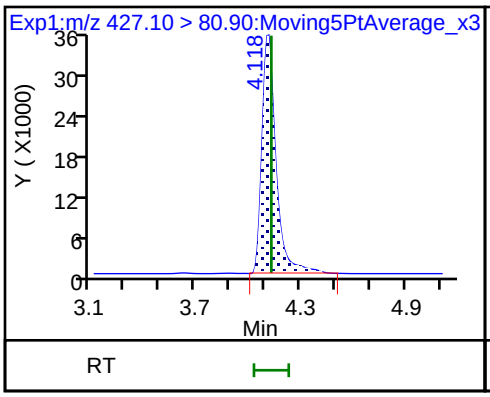
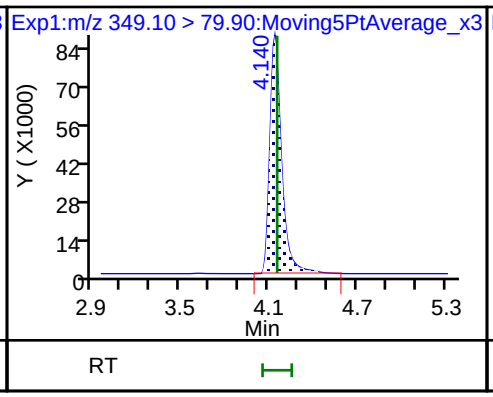


28 PFPeS



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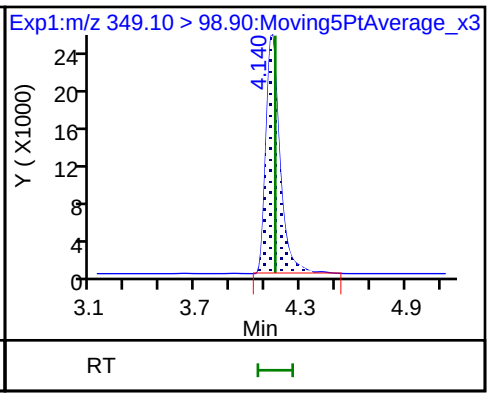

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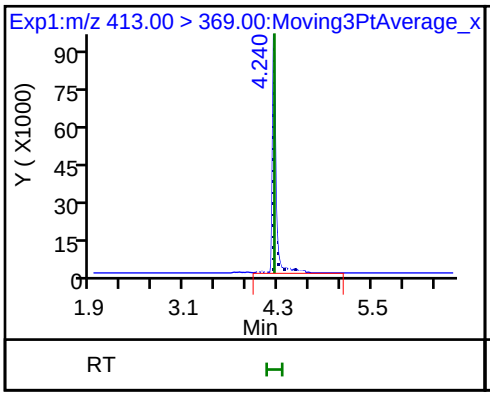

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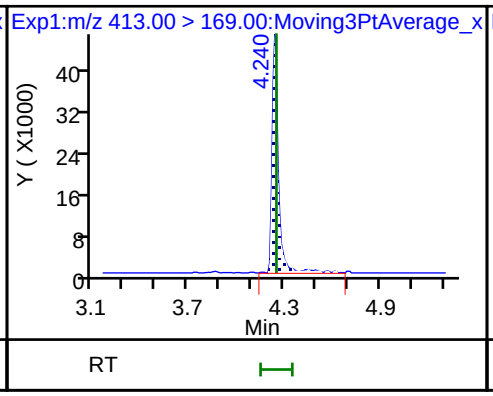

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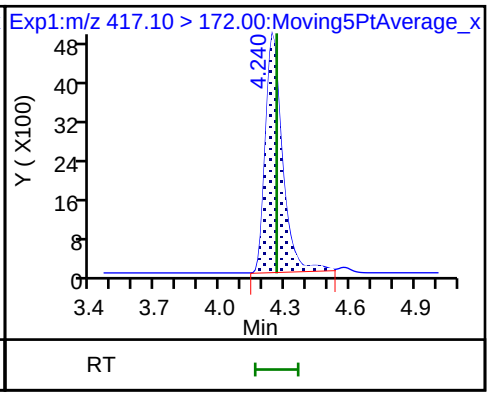

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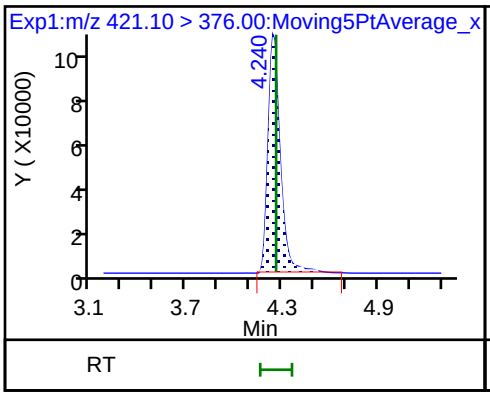

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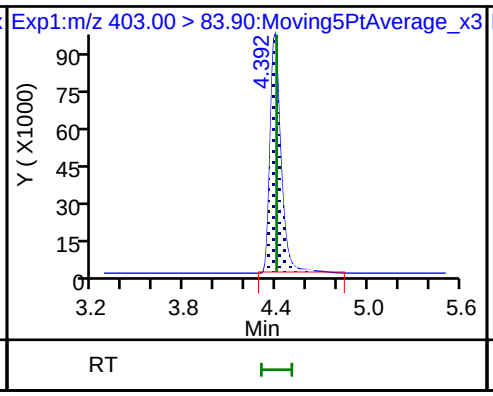

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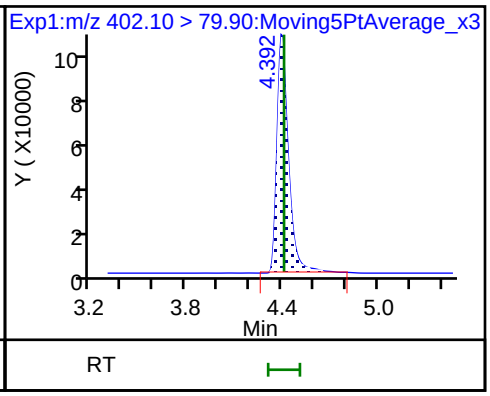

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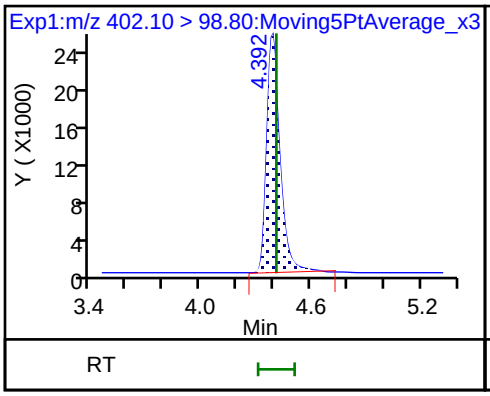

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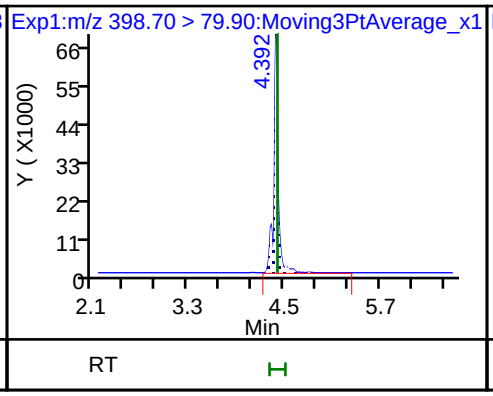

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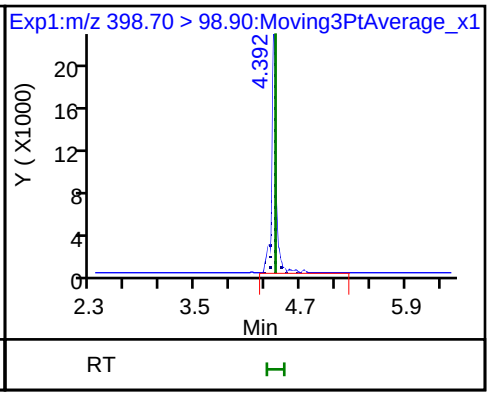

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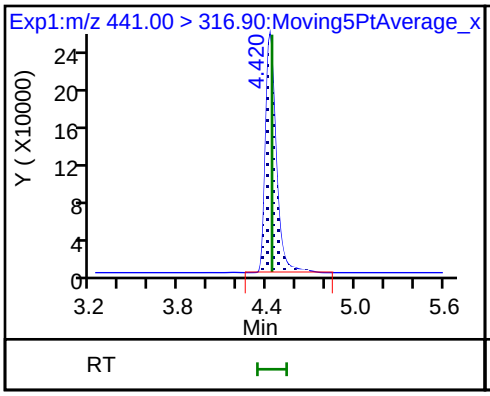

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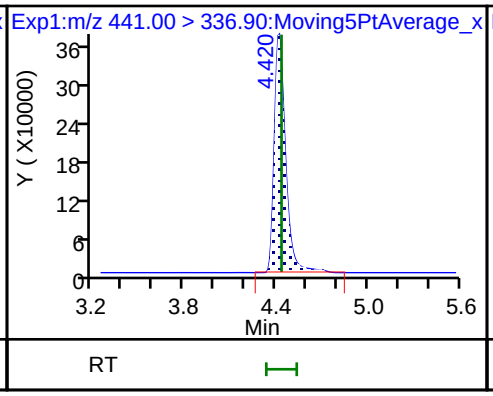

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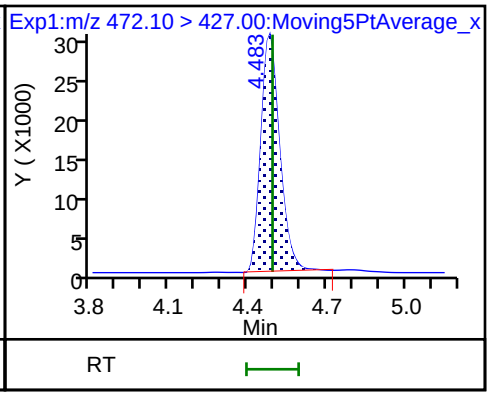

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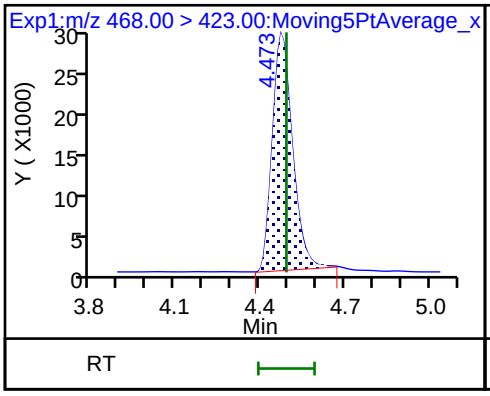

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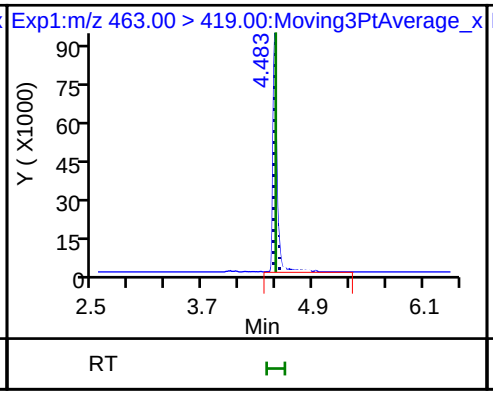

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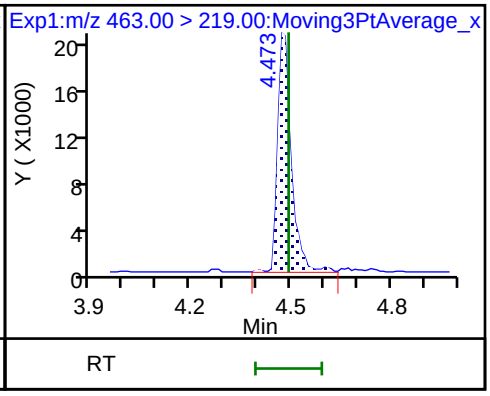

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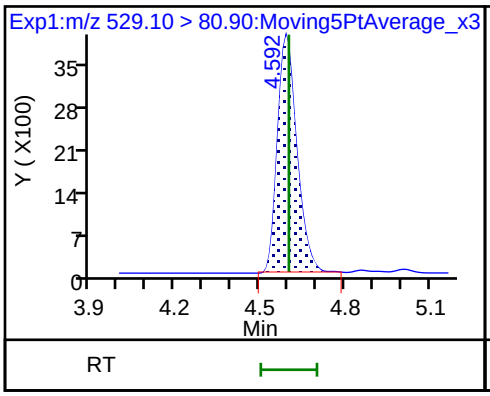

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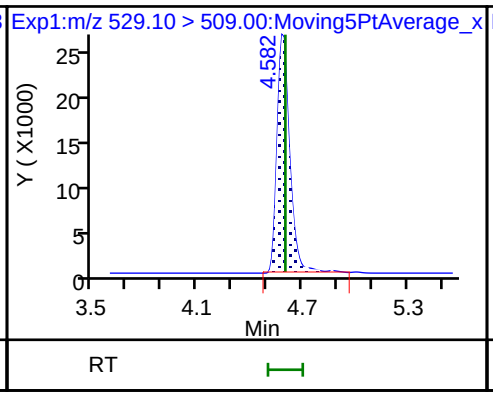

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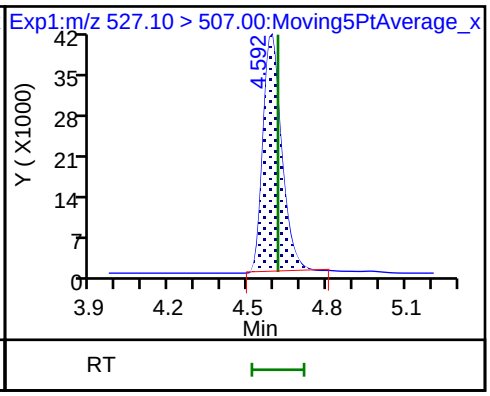

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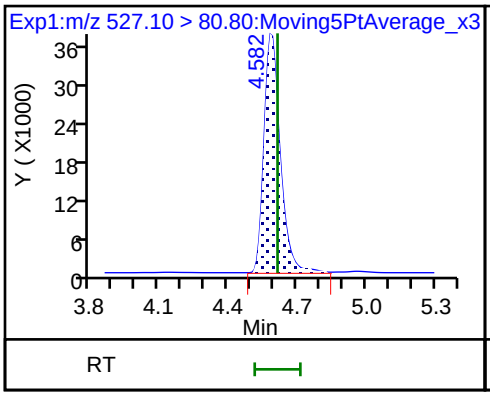

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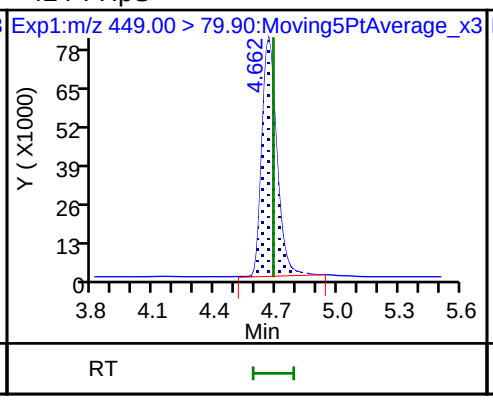

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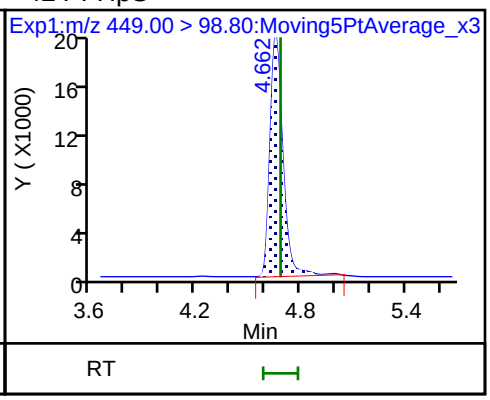
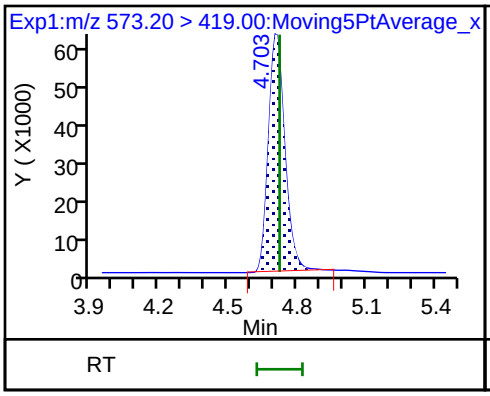


D 44 d3-NMeFOSAA



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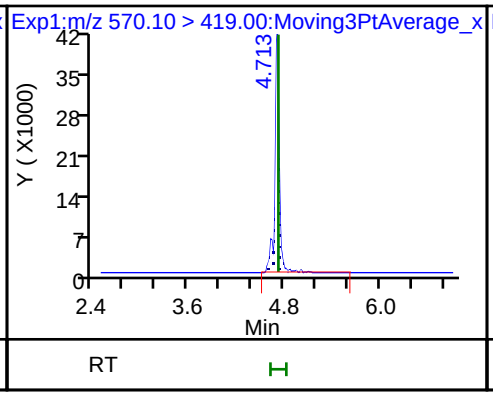

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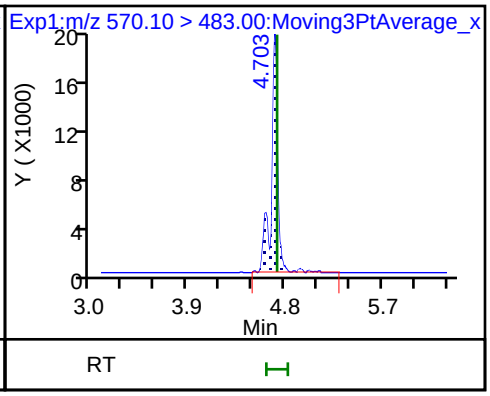

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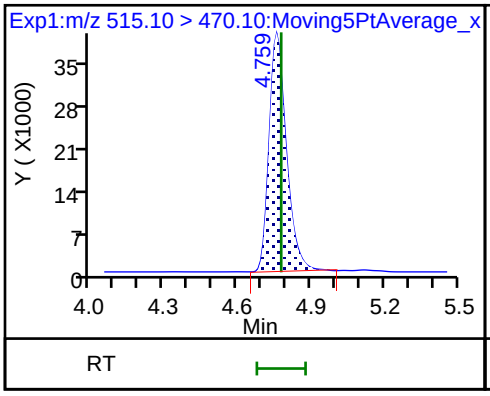

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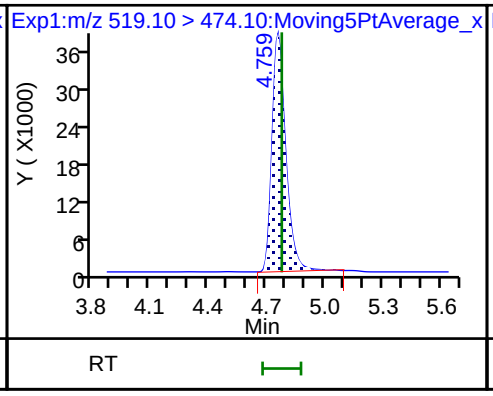

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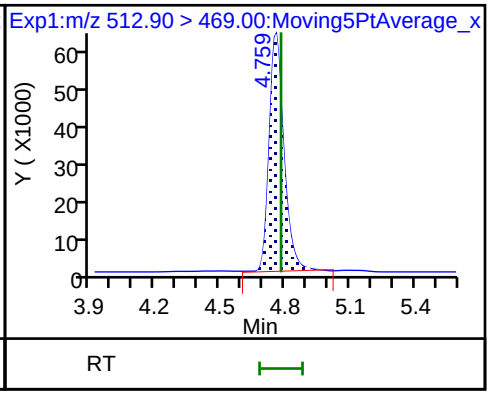

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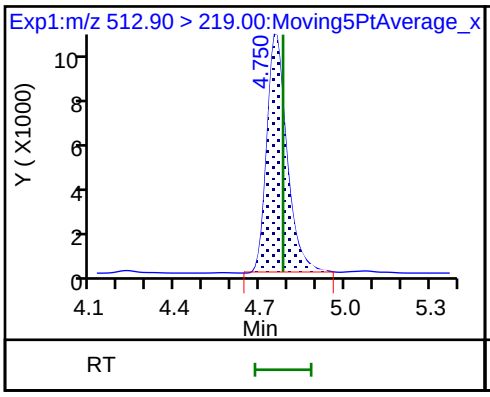
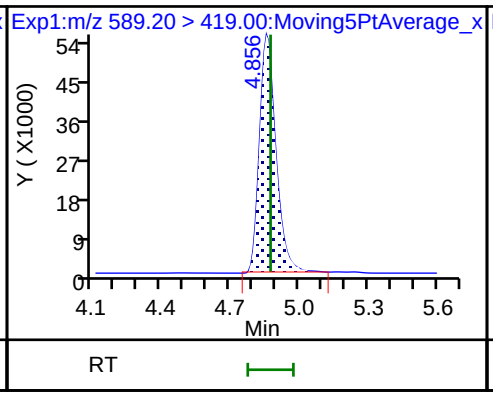


D 49 d5-NEtFOSAA



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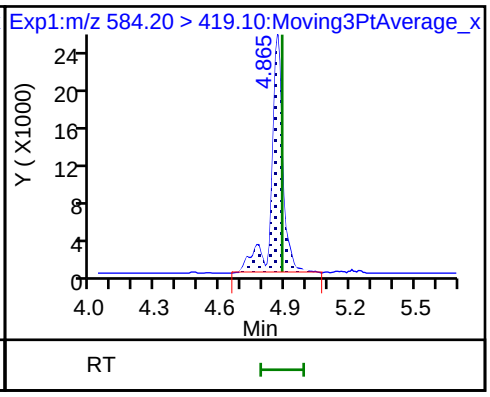

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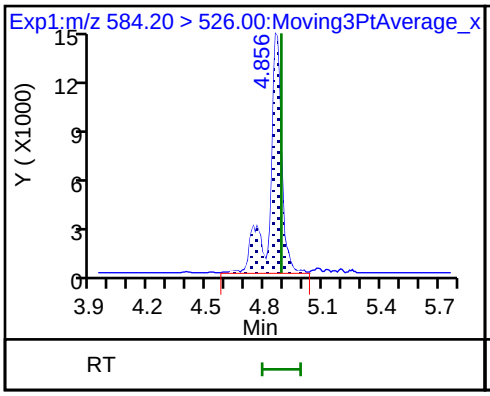

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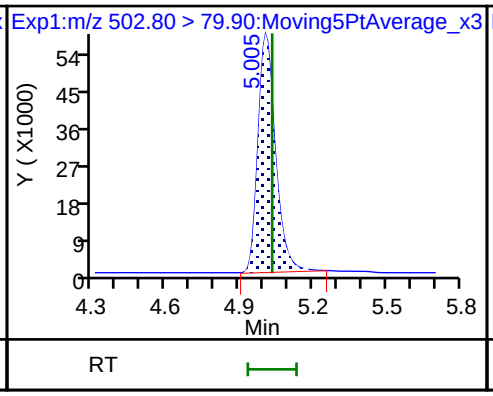

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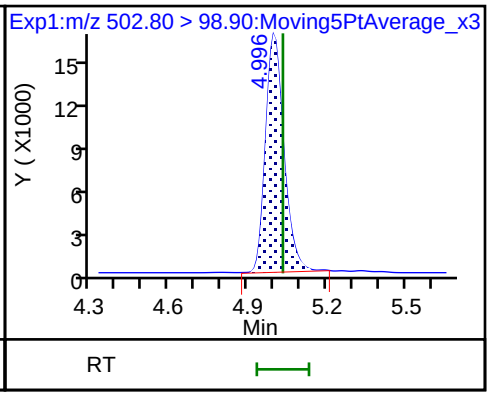

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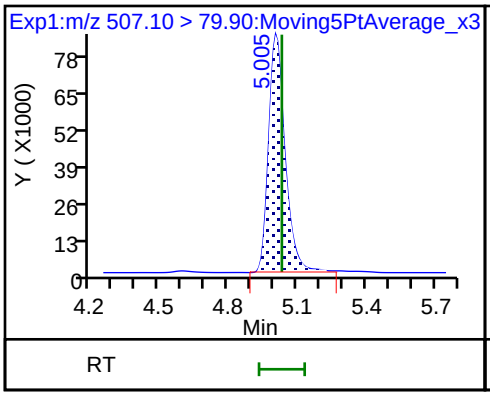
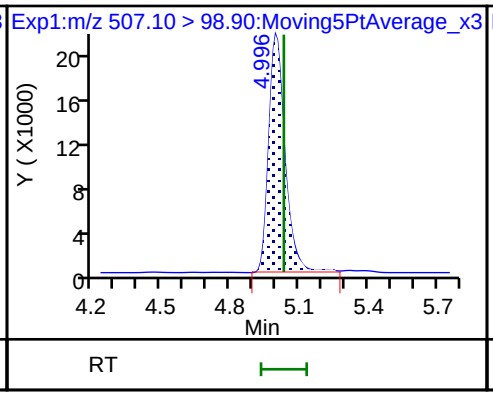
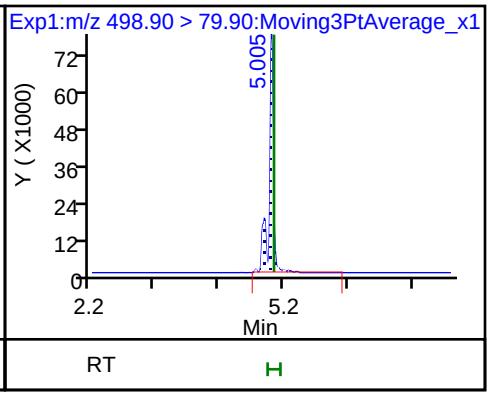


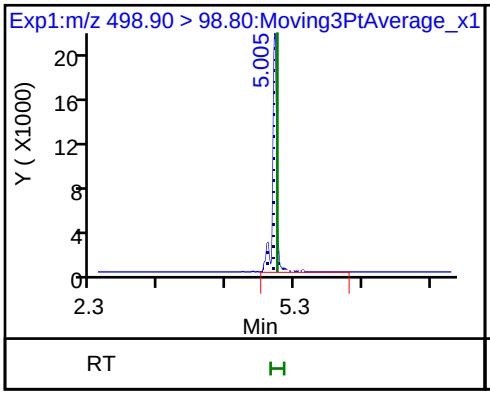
D 51 13C8 PFOS



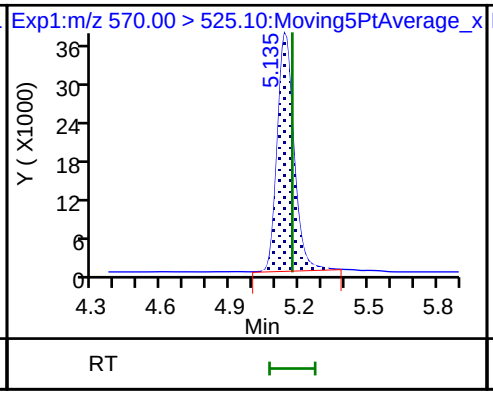
50 PFOS



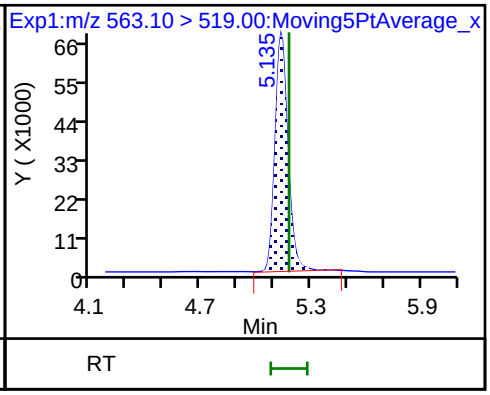
50 PFOS



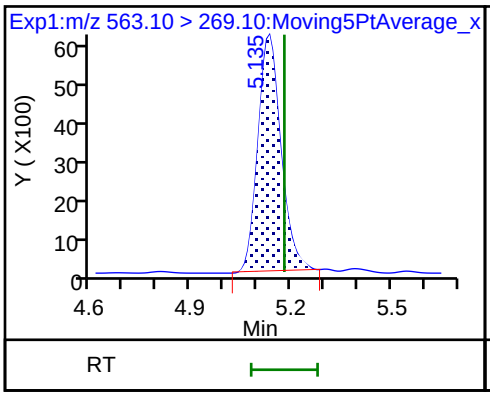
D 54 13C7 PFUnA



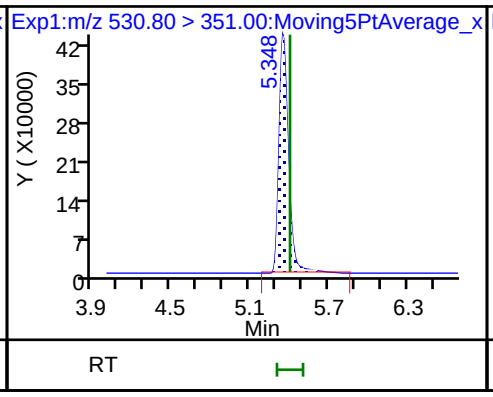
53 PFUnA



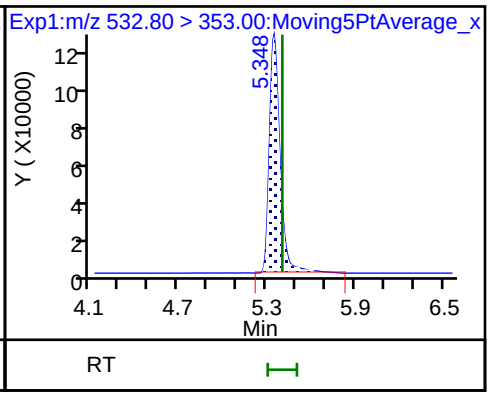
53 PFUnA



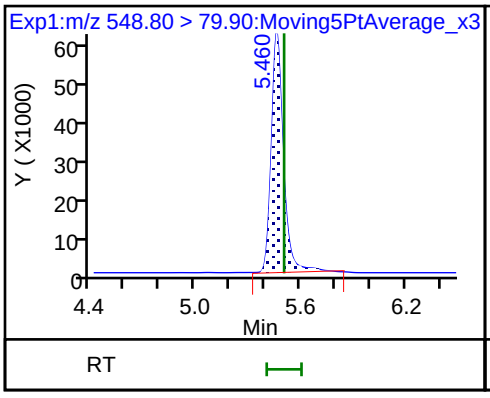
55 9ClFOS



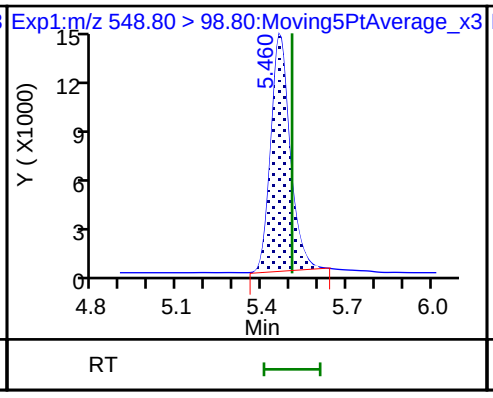
55 9ClFOS



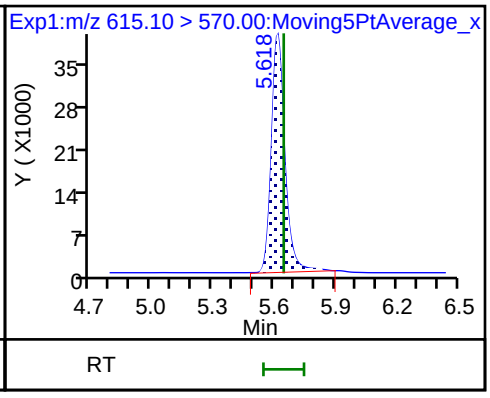
56 PFNS



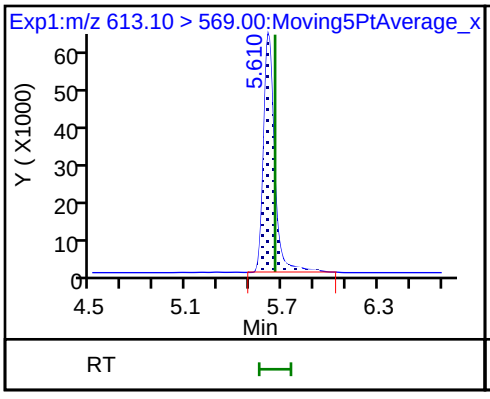
56 PFNS



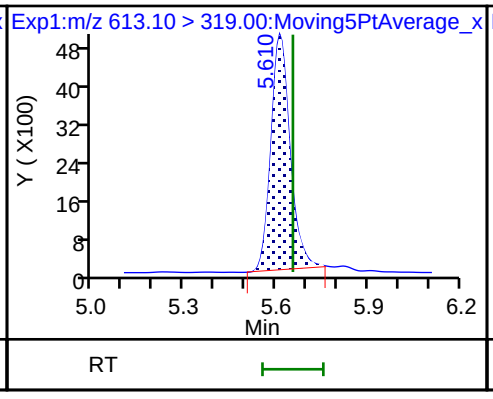
D 58 PFDoDA



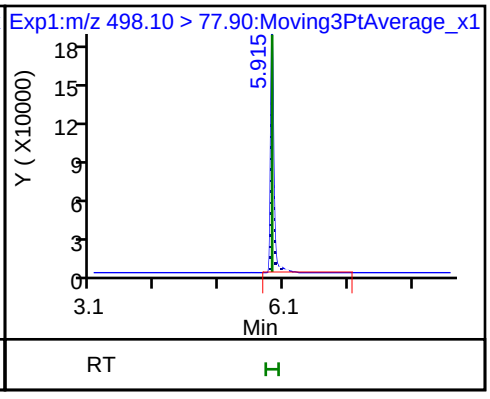
57 PFDoA



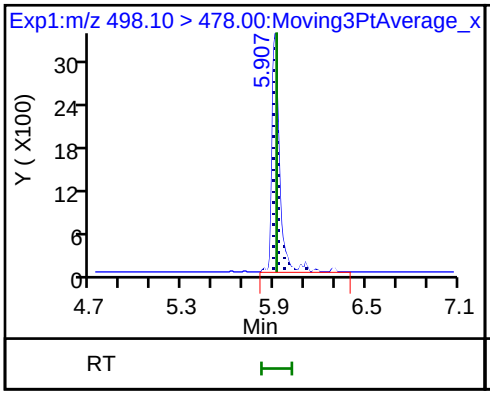
57 PFDoA



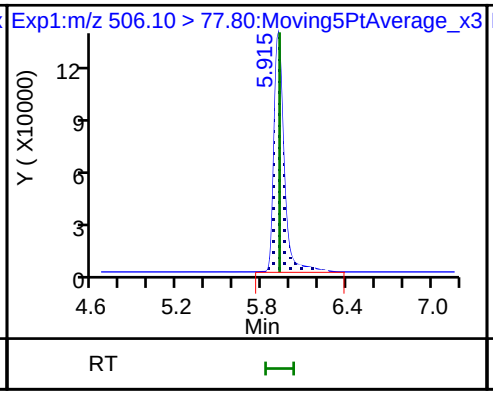
60 PFOSA



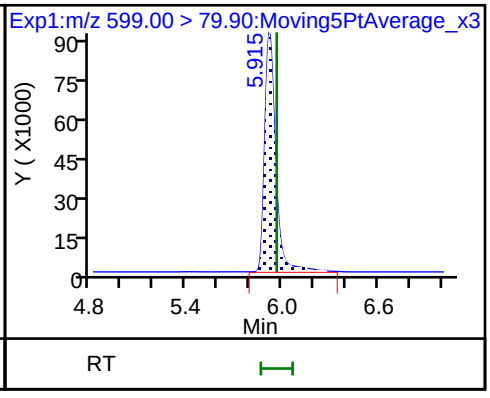
60 PFOSA



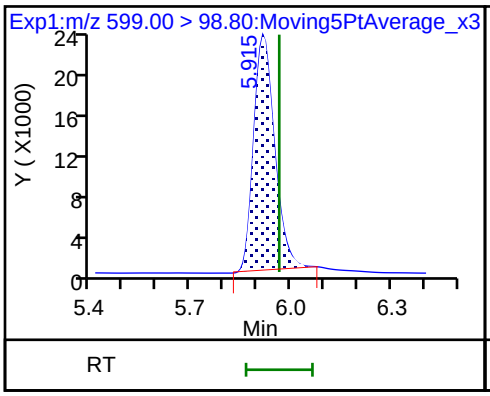
D 59 13C8 FOSA



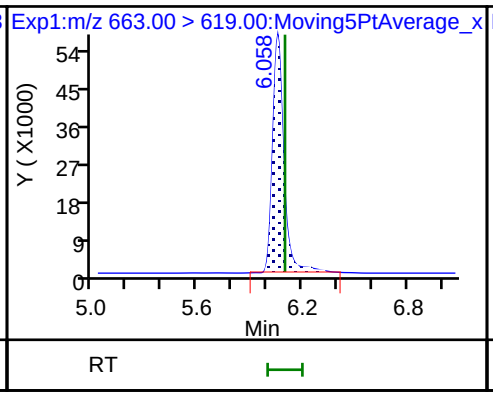
61 PFDS



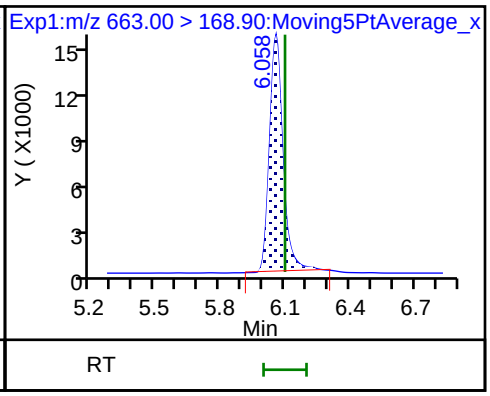
61 PFDS



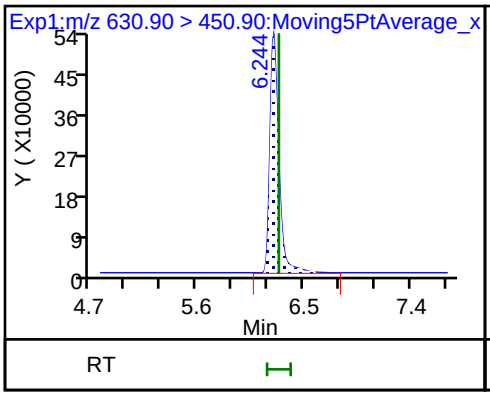
62 PFTrDA



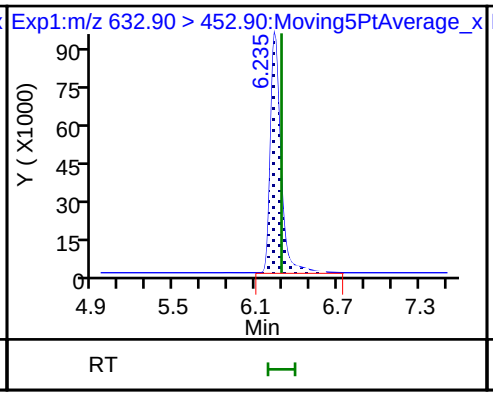
62 PFTrDA



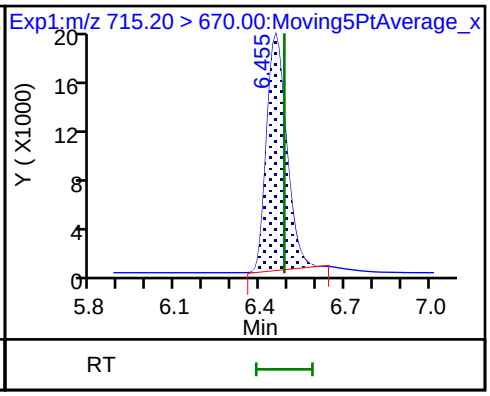
63 11ClFOS



63 11ClFOS



D 65 13C2 PFTeDA



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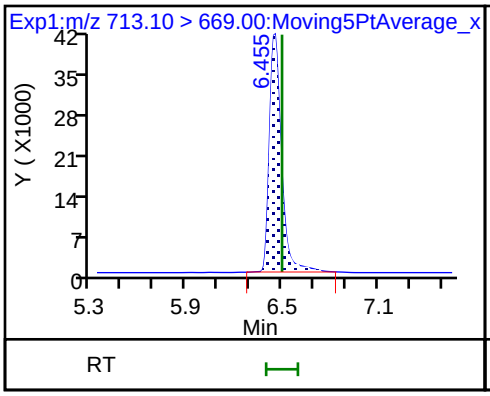
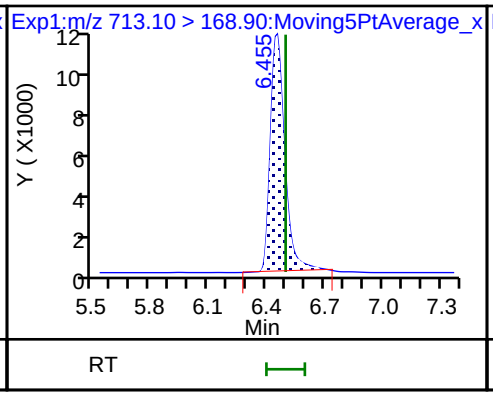
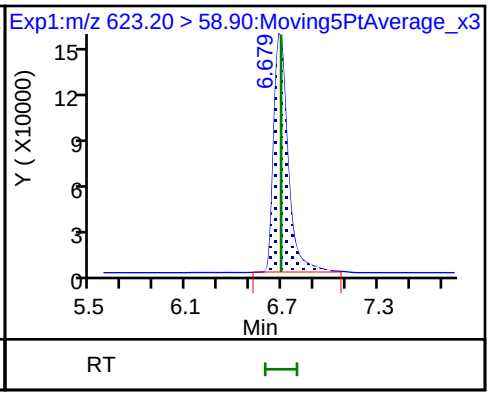


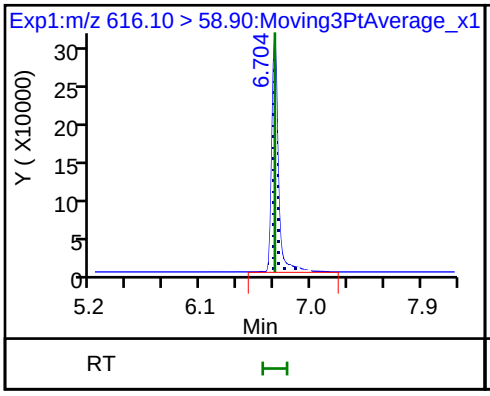
64 PFTeDA



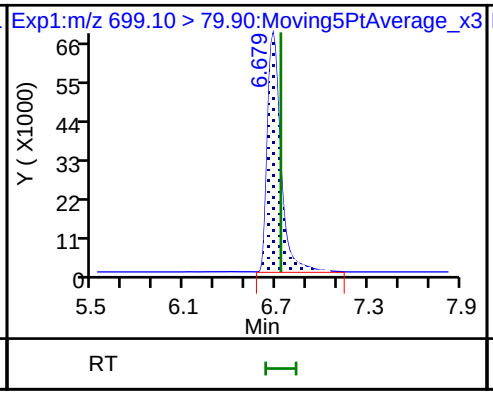
D 67 d7-N-Me-FOSE



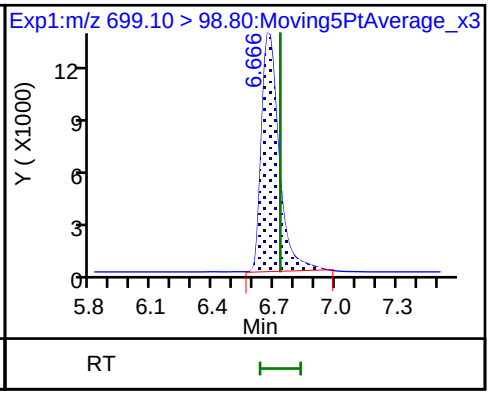
68 N-MeFOSE-M



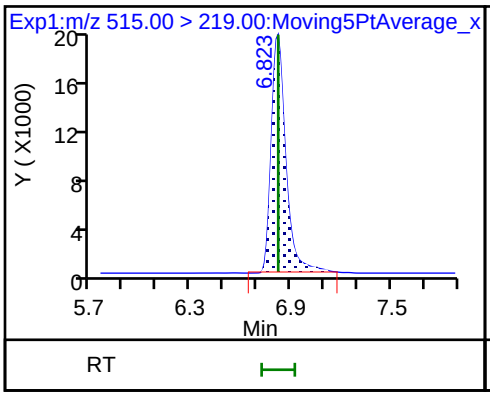
66 PFDoS



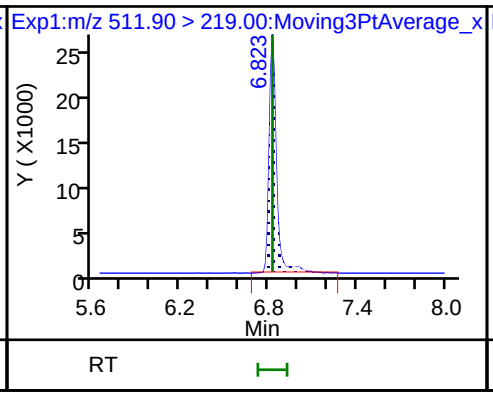
66 PFDoS



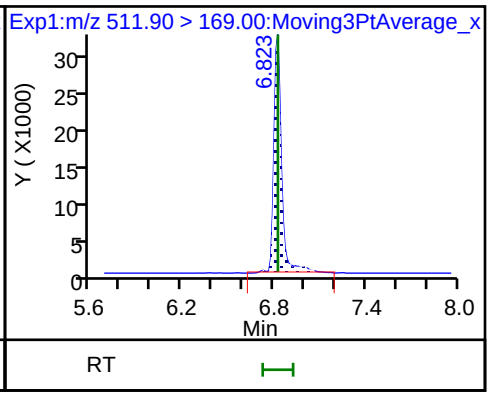
D 69 d3-NMePFOSA



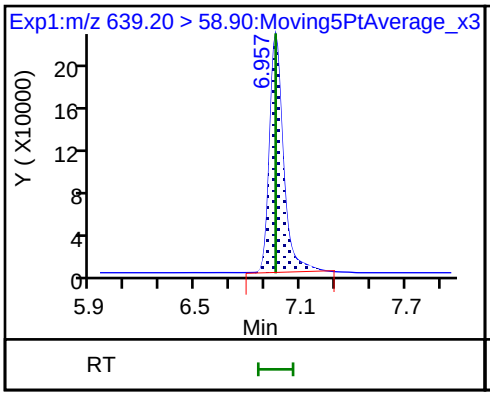
70 NMeFOSA



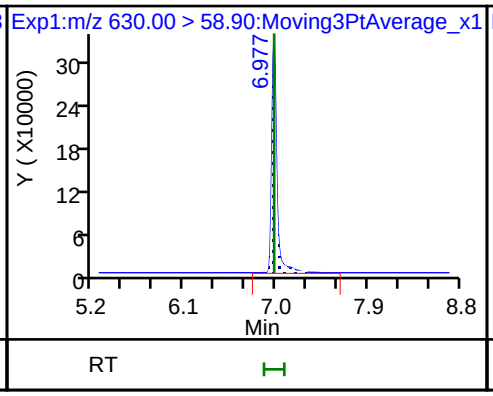
70 NMeFOSA



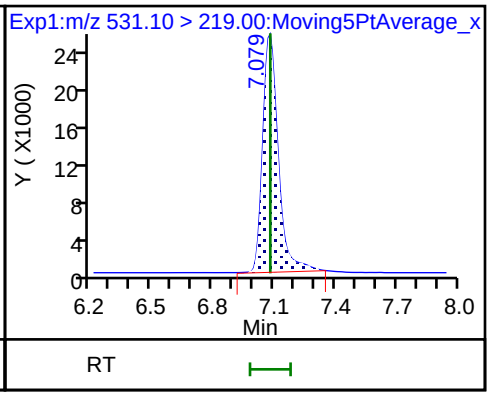
D 71 d9-N-EtFOSE



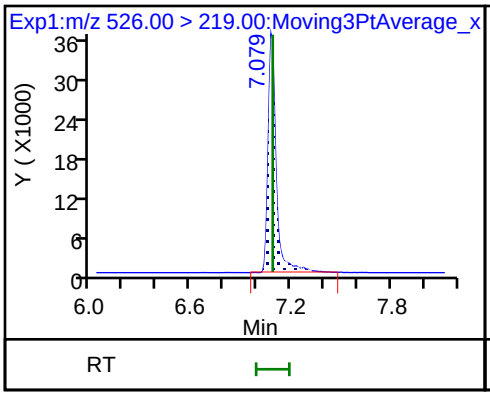
72 N-EtFOSE-M



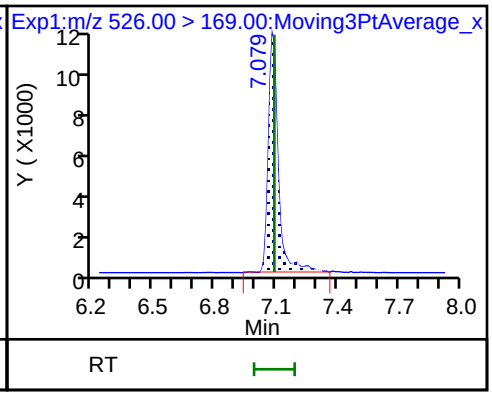
D 73 d5-NEtPFOSA



74 N-EtFOSA-M



74 N-EtFOSA-M



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

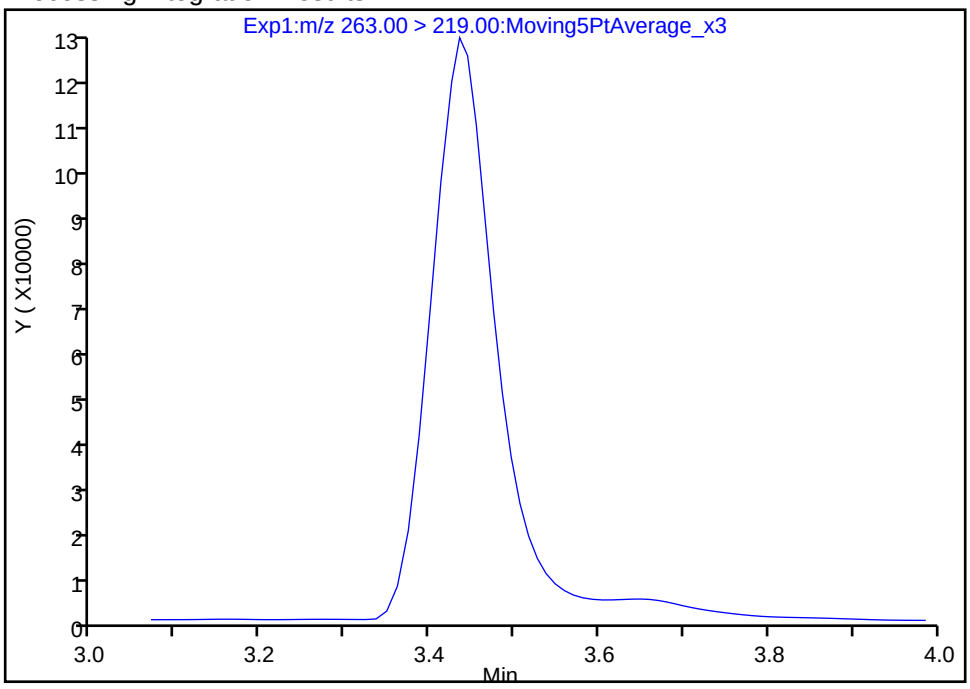
Data File:	\\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-71.d				
Injection Date:	09-Aug-2023 01:48:25	Instrument ID:	30729		
Lims ID:	CCV 7_CAL4				
Client ID:					
Operator ID:	US19_USR_INS20263	ALS Bottle#:	20005	Worklist Smp#:	66
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

6 PFPA, CAS: 2706-90-3

Signal: 1

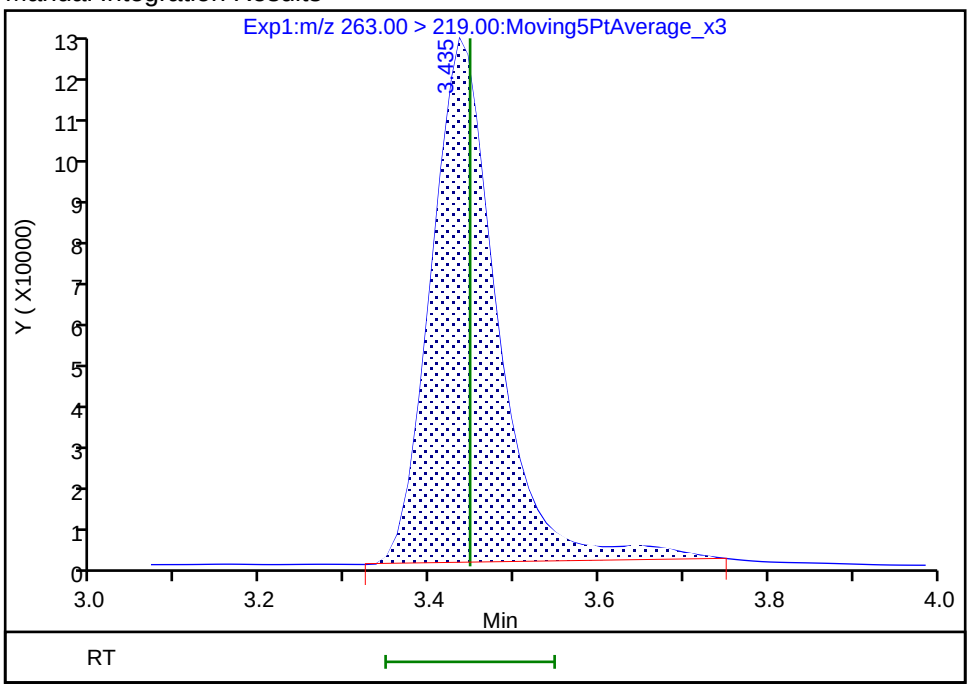
Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.43
Area: 677452
Amount: 4.676584
Amount Units: ng/ml



Reviewer: QY4X, 09-Aug-2023 08:18:49 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

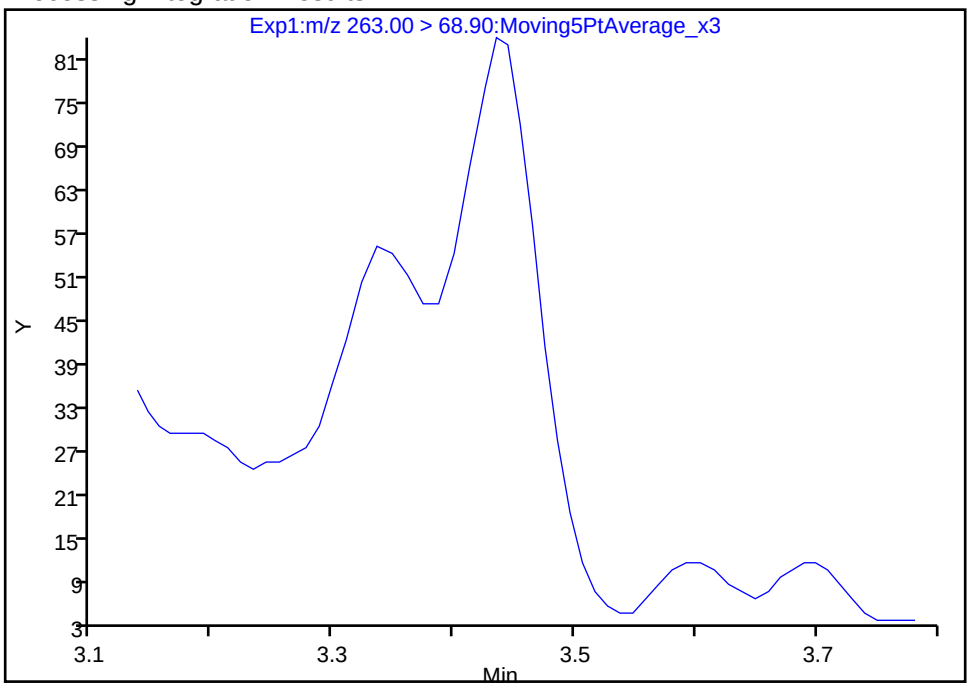
Data File:	\\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-71.d				
Injection Date:	09-Aug-2023 01:48:25	Instrument ID:	30729		
Lims ID:	CCV 7_CAL4				
Client ID:					
Operator ID:	US19_USR_INS20263	ALS Bottle#:	20005	Worklist Smp#:	66
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

6 PFPA, CAS: 2706-90-3

Signal: 2

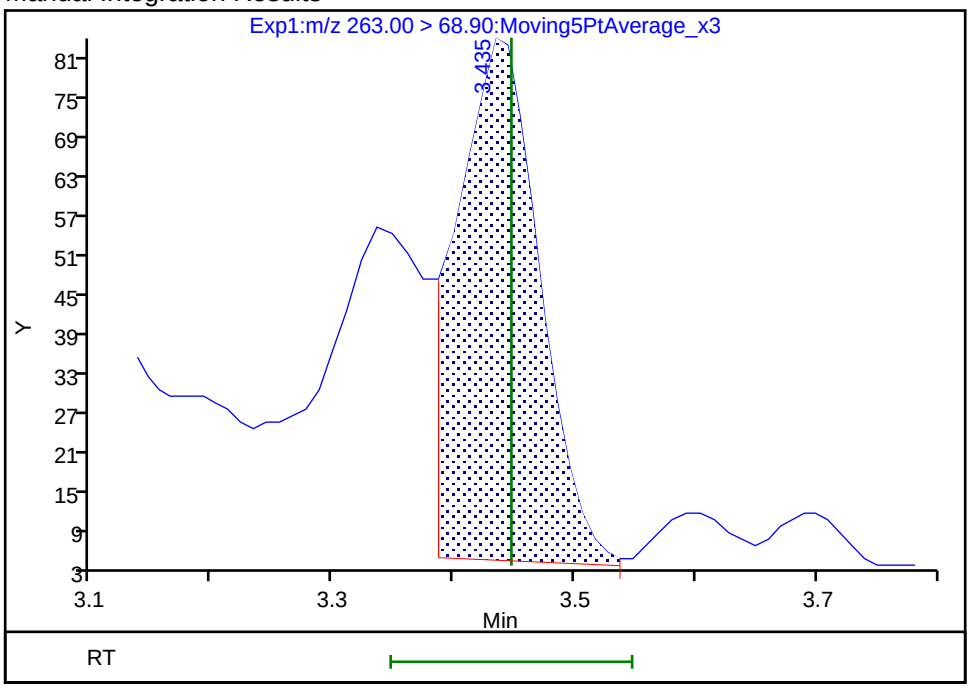
Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.43
Area: 376
Amount: 4.676584
Amount Units: ng/ml



Reviewer: QY4X, 09-Aug-2023 08:19:01 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-10.d
Lims ID: WDM
Client ID:
Sample Type: WDM
Inject. Date: 05-Aug-2023 11:12:19 ALS Bottle#: 20010 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: WDM
Misc. Info.: Plate: 1 Rack: 1 410-0090708-010
Operator ID: US19_USR_INS20263 Instrument ID: 30729

Method: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\PFAS_30729_1633.m
Limit Group: LC - 1633 ICAL
Last Update: 05-Aug-2023 12:09:46 Calib Date: 05-Aug-2023 11:25:28
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-11.d

Column 1 : Det: EXP1
Process Host: CTX1666

First Level Reviewer: UCD3 Date: 05-Aug-2023 11:32:26
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4-PFBA										
216.80 > 171.90	2.927	2.927	0.0	1.000	1248706	10.2		102	74210	
* 3 13C3PFBA										
216.00 > 172.00	2.927	2.927	0.0		751639	5.00			1608	
D 7 13C5 PFPeA										
268.30 > 223.00	3.439	3.439	0.0	0.918	359541	5.20		104	21970	
11 TDCA										
498.00 > 80.00	3.609	3.609	0.0	0.721	42756	0.2891			3685	
D 10 13C2-4:2FTS										
329.10 > 80.90	3.632	3.632	0.0	0.826	65778	5.32	Target=0.35	113	3183	
329.10 > 309.00	3.621	3.632	-0.011	0.824	178768		0.37(0.18-0.53)	113	10784	
D 14 13C5 PFHxA										
318.00 > 273.00	3.745	3.745	0.0	1.000	43995	2.62	Target=15.34	105	2901	
318.00 > 120.30	3.745	3.745	0.0	1.000	3553		12.38(7.67-23.01)	105	247	
* 15 13C2 PFHxA										R
315.10 > 270.00	3.745	3.745	0.0		240594	2.50	Target=103.53		15313	R
315.10 > 119.40	3.735	3.745	-0.010		1440		167.08(51.76-155.29)		106	
21 TCDCA										
498.10 > 80.00	3.861	3.861	0.0	0.771	62713	0.4240			2197	
D 18 13C3 PFBS										
302.10 > 79.90	3.850	3.850	0.0	0.876	464866	2.66	Target=6.99	114	28880	
302.10 > 98.90	3.839	3.850	-0.011	0.873	68697		6.77(3.50-10.49)	114	4269	
D 20 13C3 HFPO-DA										
286.90 > 168.90	3.861	3.861	0.0	1.031	1138923	10.7	Target=29.00	107	68909	
286.90 > 184.90	3.861	3.861	0.0	1.031	32866		34.65(14.50-43.50)	107	2025	
22 TUDCA										
498.20 > 80.00	3.938	3.938	0.0	0.786	23247	0.1572			398	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 25 13C4 PFHpA										
367.10 > 322.00	4.013	4.013	0.0	1.071	528432	2.62		105	32644	
D 29 13C2-6:2FTS										R
429.10 > 80.90	4.124	4.124	0.0	0.938	33577	5.26	Target=0.12	111	2006	R
429.10 > 409.00	4.113	4.124	-0.011	0.936	174907		0.19(0.06-0.18)	111	10655	
32 PFOA										
413.00 > 369.00	4.245	4.245	0.0	1.000	503535	4.97	Target=2.36		514	
413.00 > 169.00	4.245	4.245	0.0	1.000	206562		2.44(1.18-3.53)		773	
* 30 13C4 PFOA										
417.10 > 172.00	4.245	4.245	0.0		30026	2.50			2020	
D 31 13C8 PFOA										
421.10 > 376.00	4.245	4.245	0.0	1.000	512940	1.80		71.9	31658	
* 35 18O2 PFHxS										
403.00 > 83.90	4.396	4.396	0.0		399066	2.37			26910	
D 36 13C3 PFHxS										
402.10 > 79.90	4.396	4.396	0.0	1.000	463755	2.44	Target=3.90	103	30149	
402.10 > 98.80	4.396	4.396	0.0	1.000	118150		3.93(1.95-5.85)	103	8487	
D 38 13C9 PFNA										
472.10 > 427.00	4.487	4.487	0.0	1.002	144885	1.19		95.0	5959	
39 PFNA										
463.00 > 419.00	4.415	4.415	0.0	0.984	944497	9.70	Target=5.25		1230	
463.00 > 219.00	4.415	4.415	0.0	0.984	204623		4.62(2.63-7.88)		364	
* 37 13C5 PFNA										
468.00 > 423.00	4.477	4.477	0.0		144432	1.25			9442	
D 41 13C2-8:2FTS										
529.10 > 80.90	4.596	4.596	0.0	1.045	15698	4.61	Target=0.14	95.9	993	
529.10 > 509.00	4.586	4.596	-0.010	1.043	103122		0.15(0.07-0.21)	95.9	6781	
D 44 d3-NMeFOSAA										
573.20 > 419.00	4.707	4.707	0.0	0.940	270981	5.20		104	11012	
D 47 13C6 PFDA										
519.10 > 474.10	4.763	4.763	0.0	1.000	190129	1.31		105	13111	
* 46 13C2 PFDA										
515.10 > 470.10	4.763	4.763	0.0		179247	1.25			12210	
D 49 d5-NEtFOSAA										
589.20 > 419.00	4.860	4.860	0.0	0.970	248410	5.13		103	16729	
* 52 13C4 PFOS										
502.80 > 79.90	5.009	5.009	0.0		250751	2.40	Target=4.18		10105	
502.80 > 98.90	5.009	5.009	0.0		69270		3.62(2.09-6.27)		4741	
D 51 13C8 PFOS										
507.10 > 79.90	5.009	5.009	0.0	1.000	354229	2.38	Target=3.96	99.2	14115	
507.10 > 98.90	5.000	5.009	-0.009	0.998	91484		3.87(1.98-5.94)	99.2	4622	
D 54 13C7 PFUnA										
570.00 > 525.10	5.147	5.147	0.0	1.081	188340	1.42		113	13009	
D 58 PFDoDA										
615.10 > 570.00	5.620	5.620	0.0	1.180	153840	1.30		104	11068	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
60 PFOSA										
498.10 > 77.90	5.917	5.917	0.0	1.000	1174883	4.82	Target=58.34		9027	
498.10 > 478.00	5.901	5.917	-0.016	0.997	19784		59.39(29.17-87.51)		122	
D 59 13C8 FOSA										
506.10 > 77.80	5.917	5.917	0.0	1.181	590624	2.70		108	40369	
D 65 13C2 PFTeDA										
715.20 > 670.00	6.468	6.468	0.0	1.358	79997	1.20		96.3	3997	
D 67 d7-N-Me-FOSE										
623.20 > 58.90	6.694	6.694	0.0	1.336	971803	27.0		108	39771	
68 N-MeFOSE-M										
616.10 > 58.90	6.706	6.706	0.0	1.002	196635	4.55			1255	
D 69 d3-NMePFOSA										
515.00 > 219.00	6.825	6.825	0.0	1.363	113671	2.65		106	6473	
70 NMeFOSA										
511.90 > 219.00	6.825	6.825	0.0	1.000	175048	4.84	Target=0.78		3379	
511.90 > 169.00	6.825	6.825	0.0	1.000	232897		0.75(0.39-1.17)		3255	
D 71 d9-N-EtFOSE										
639.20 > 58.90	6.959	6.959	0.0	1.389	1182555	26.8		107	36116	
72 N-EtFOSE-M										
630.00 > 58.90	6.979	6.979	0.0	1.003	184887	4.16			455	
D 73 d5-NEtPFOSA										
531.10 > 219.00	7.081	7.081	0.0	1.414	128237	2.79		112	8036	
74 N-EtFOSA-M										
526.00 > 219.00	7.092	7.092	0.0	1.001	229731	4.65	Target=3.00		2351	
526.00 > 169.00	7.081	7.092	-0.011	1.000	83971		2.74(1.50-4.50)		1074	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Reagents:

PFC_LB_1633_00013 Amount Added: 1.00 Units: mL

Report Date: 05-Aug-2023 12:09:48 Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-10.d

Injection Date: 05-Aug-2023 11:12:19 Instrument ID: 30729

Lims ID: WDM

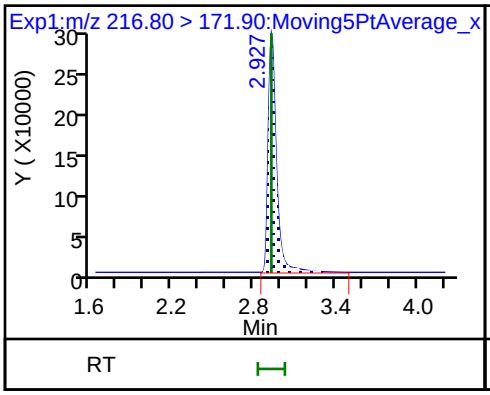
Client ID:

Operator ID: US19_USR_INS20263 ALS Bottle#: 20010 Worklist Smp#: 10

Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: PFAS_30729_1633 Limit Group: LC - 1633 ICAL

D 2 13C4-PFBA



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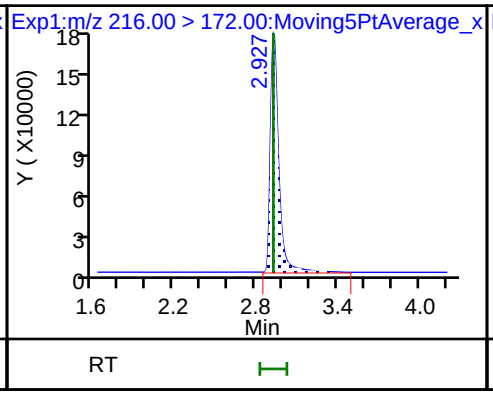

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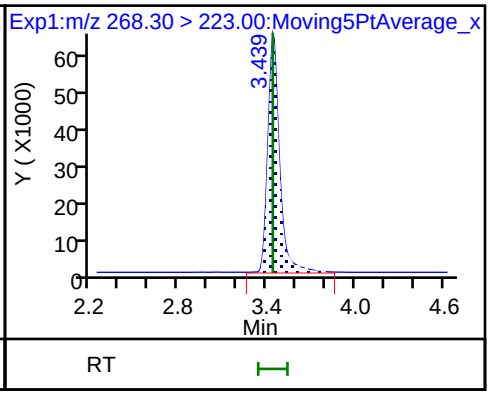

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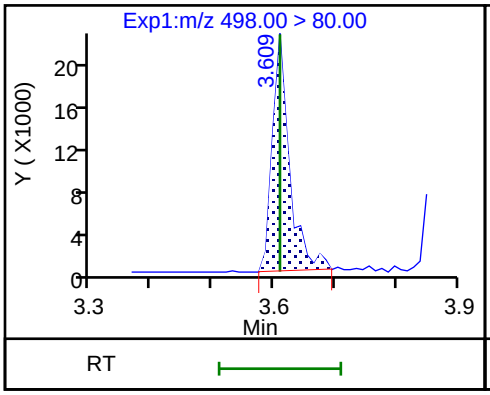

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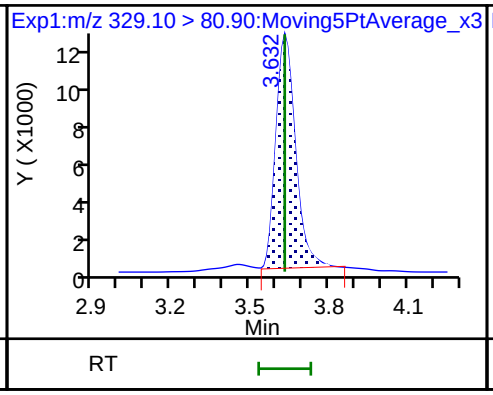

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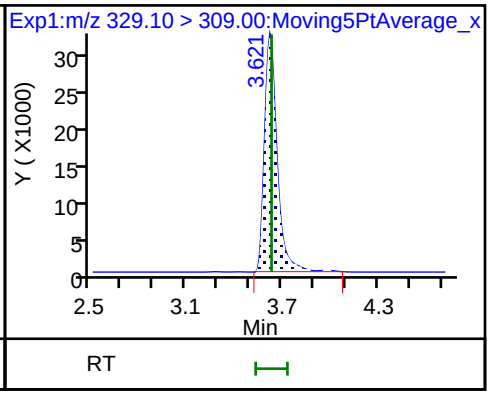

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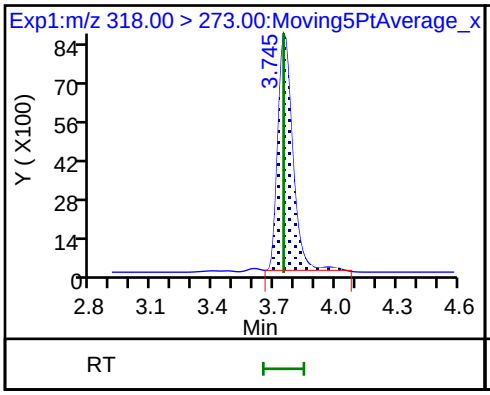

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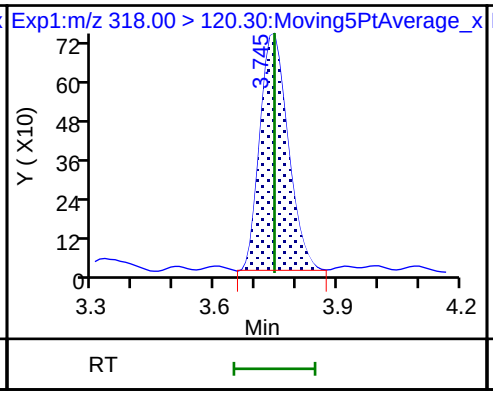

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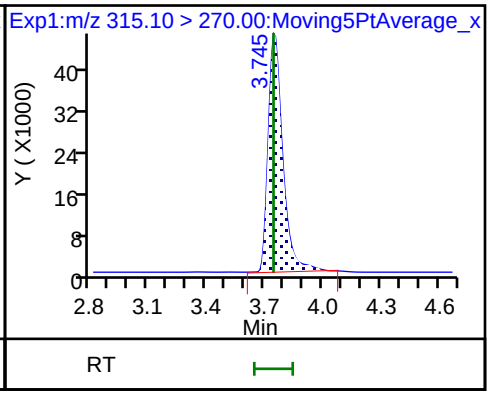

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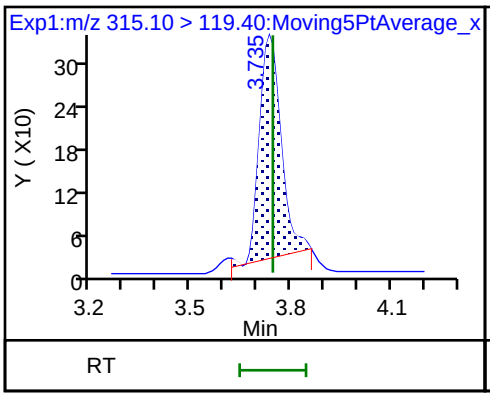
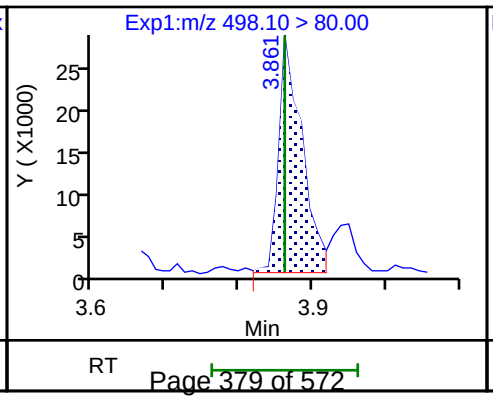


21 TCDCA



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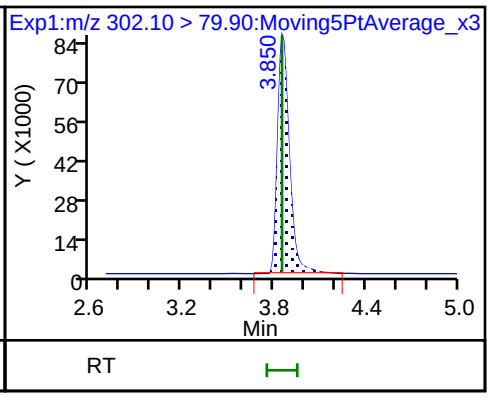

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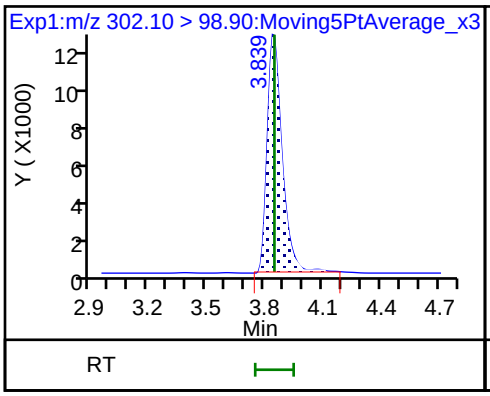
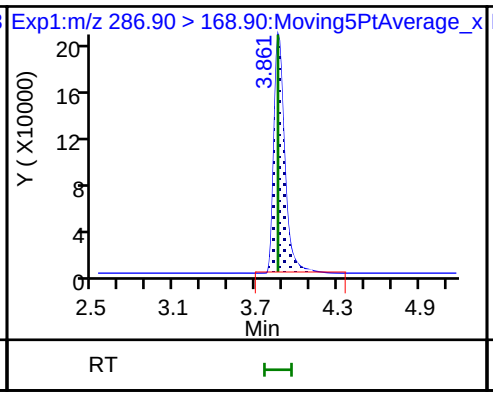


D 20 13C3 HFPO-DA



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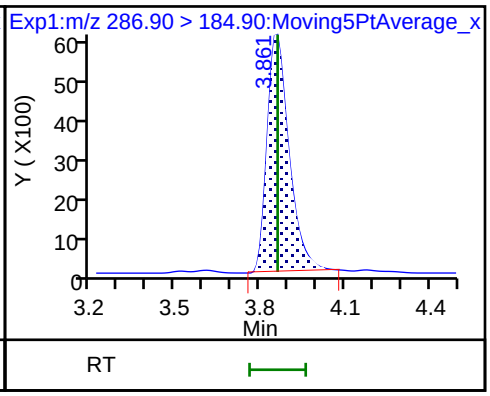
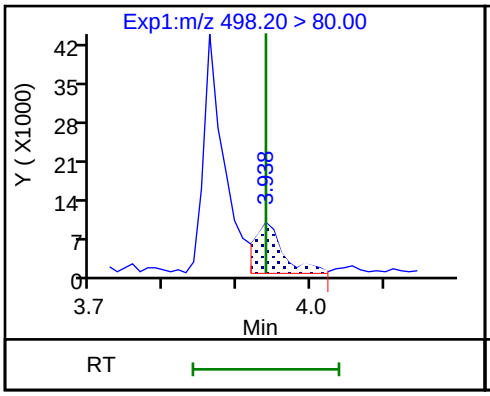
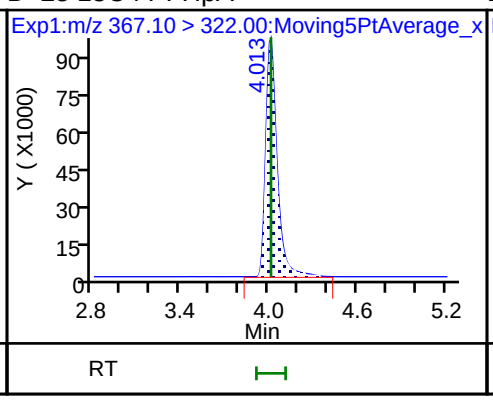


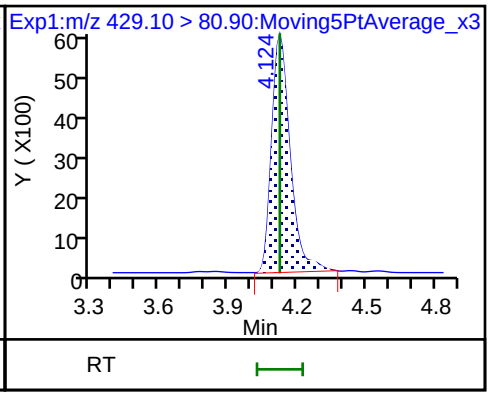
22 TUDCA



D 25 13C4 PFHpA



D 29 13C2-6:2FTS



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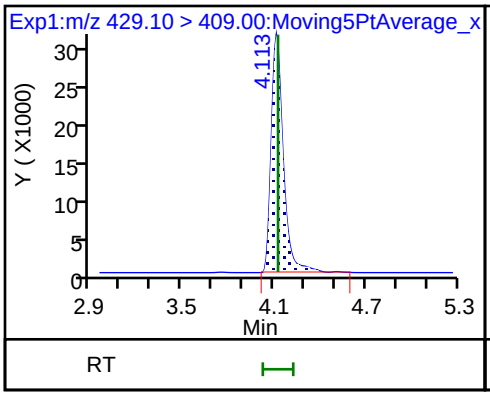

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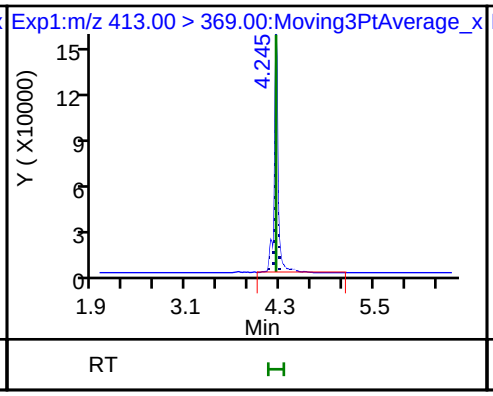
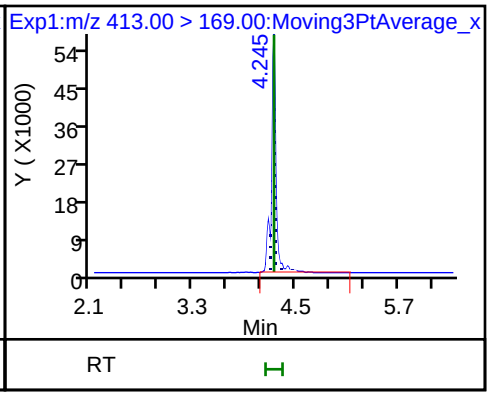


32 PFOA



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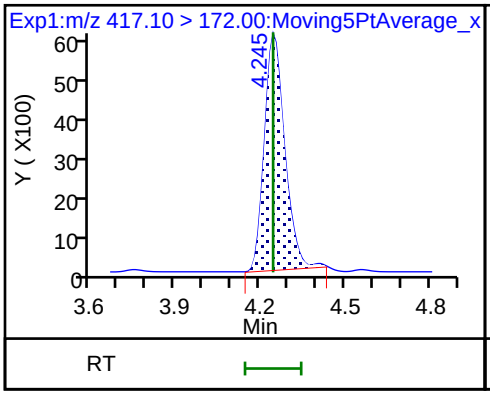

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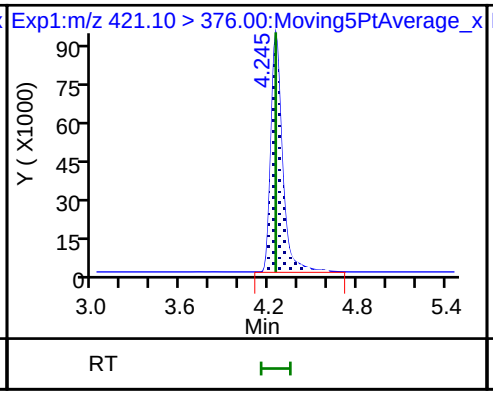
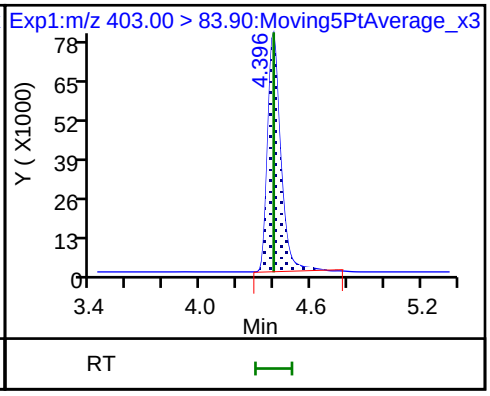


* 35 18O2 PFHxS



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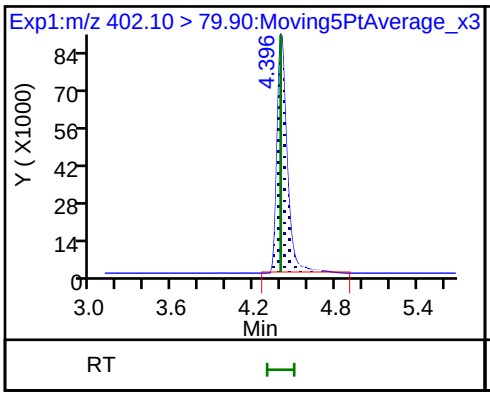

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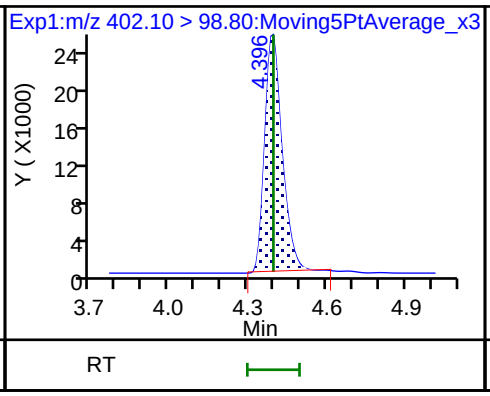

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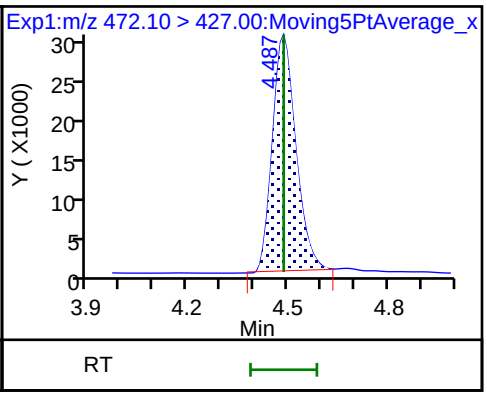

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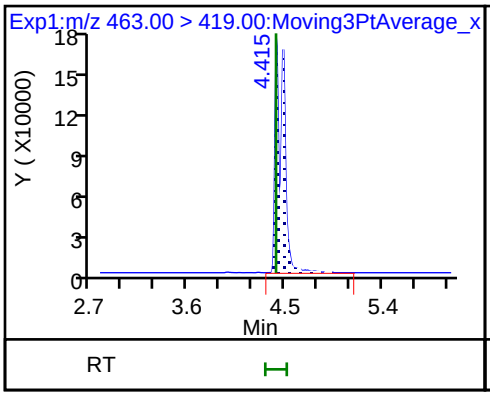

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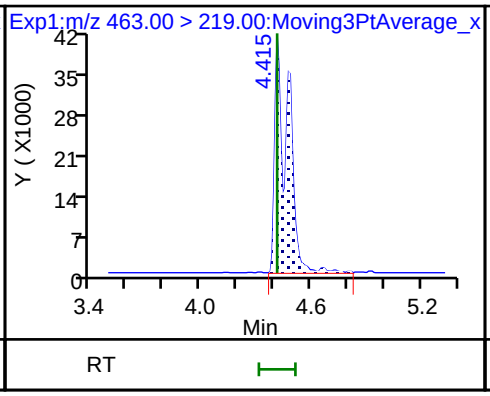

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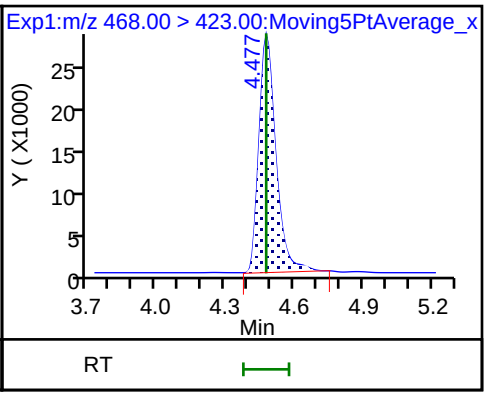

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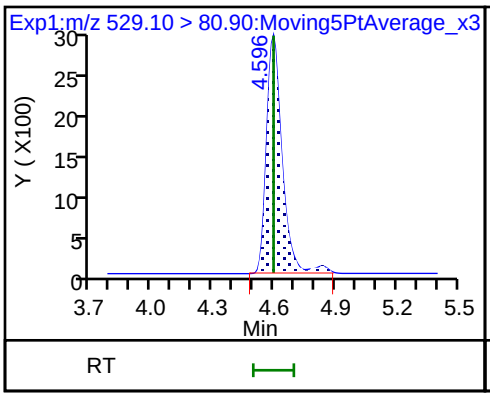

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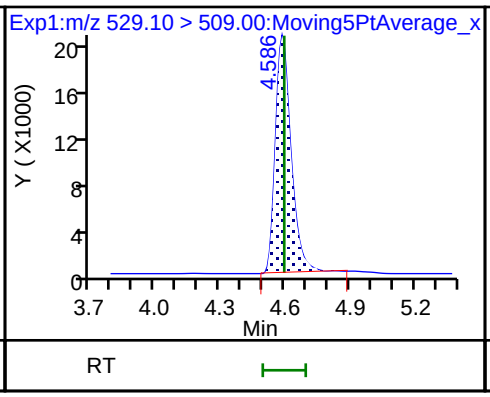

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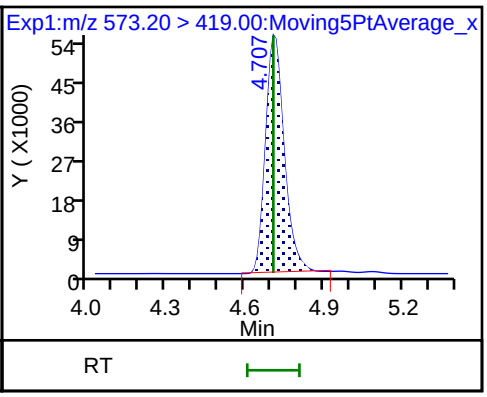

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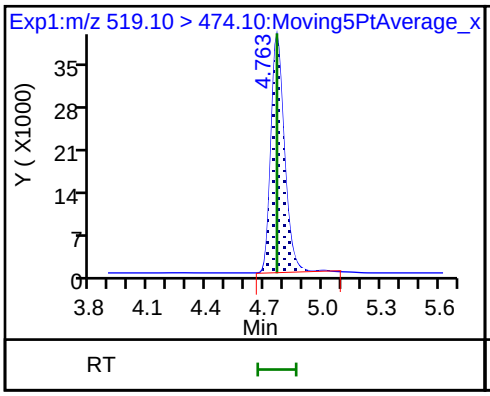

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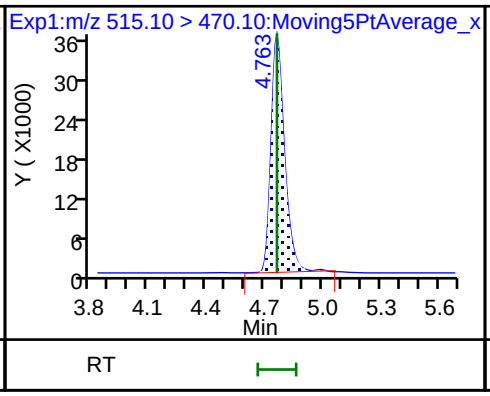

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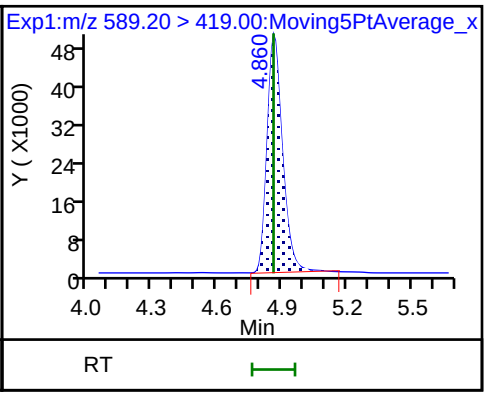
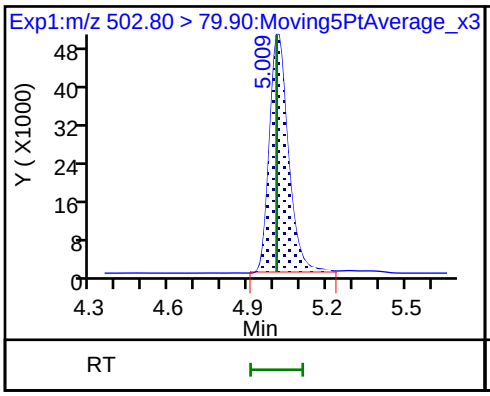
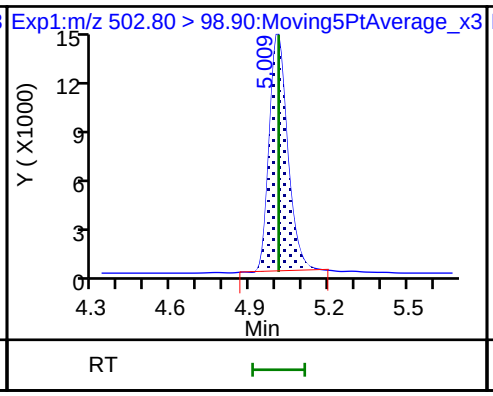


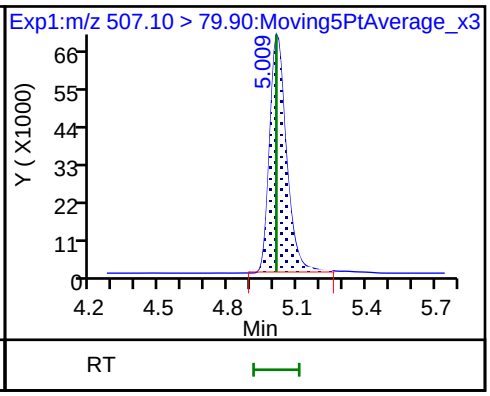
* 52 13C4 PFOS



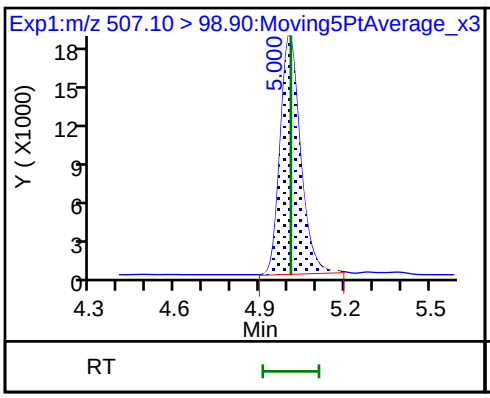
* 52 13C4 PFOS



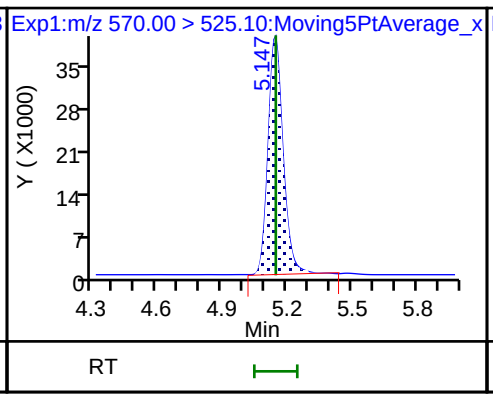
D 51 13C8 PFOS



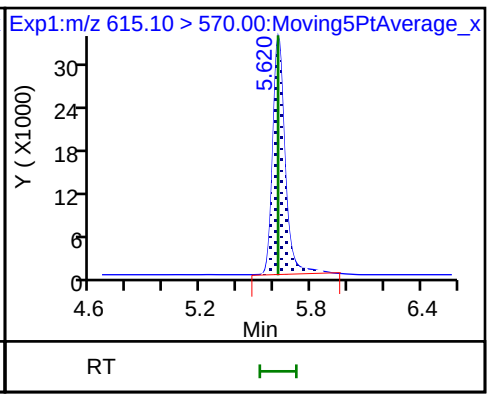
D 51 13C8 PFOS



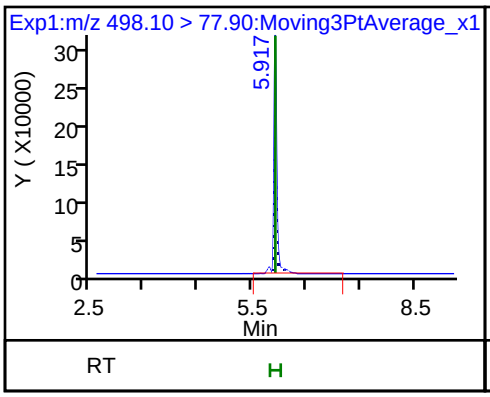
D 54 13C7 PFUnA



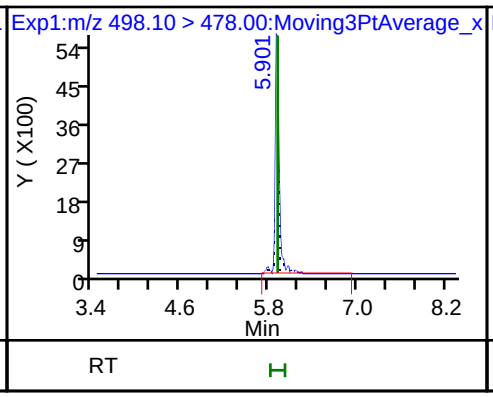
D 58 PFDoDA



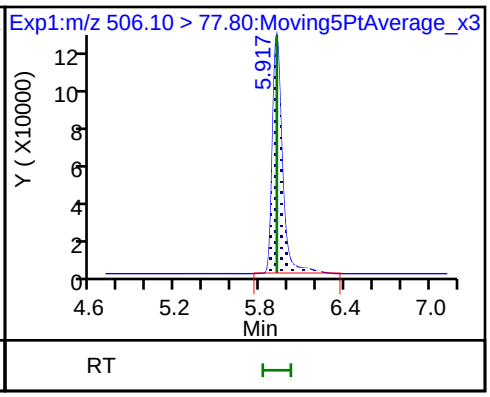
60 PFOSA



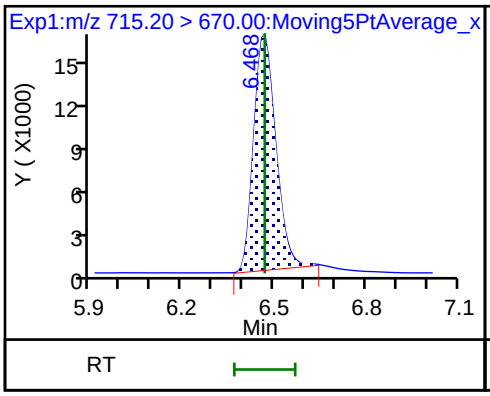
60 PFOSA



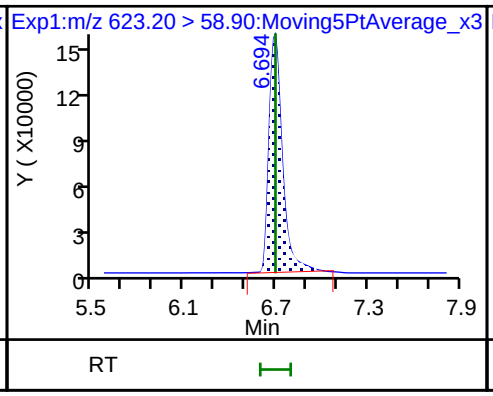
D 59 13C8 FOSA



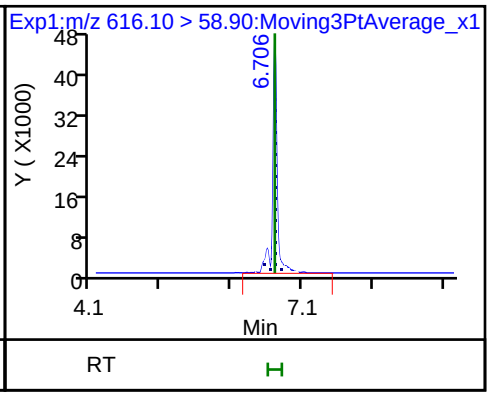
D 65 13C2 PFTeDA



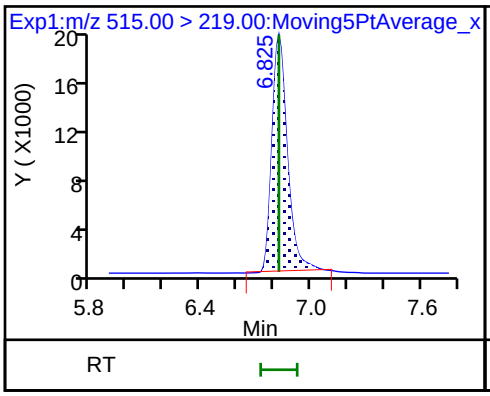
D 67 d7-N-Me-FOSE



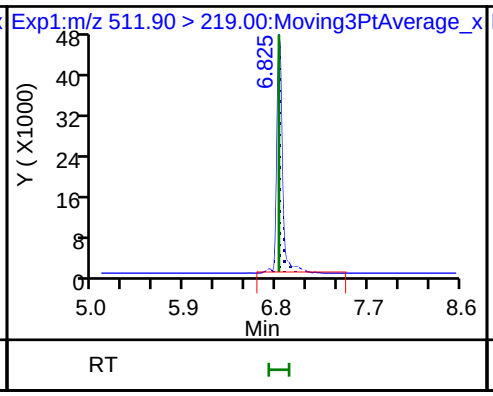
68 N-MeFOSE-M



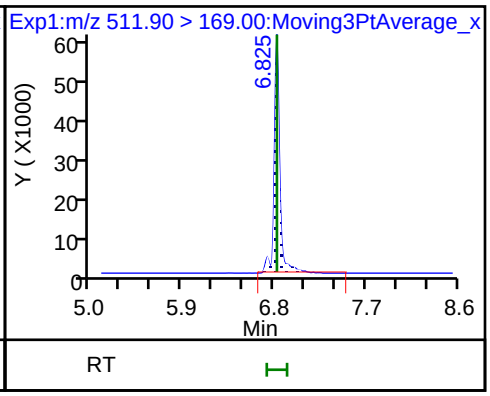
D 69 d3-NMePFOSA



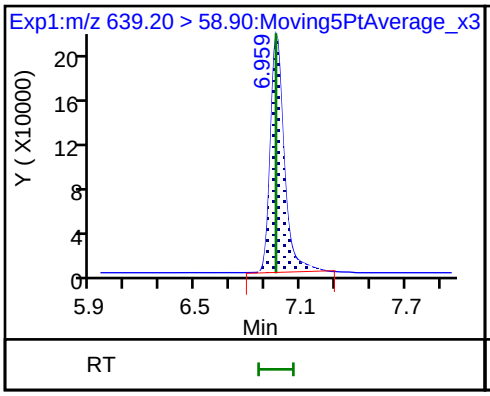
70 NMeFOSA



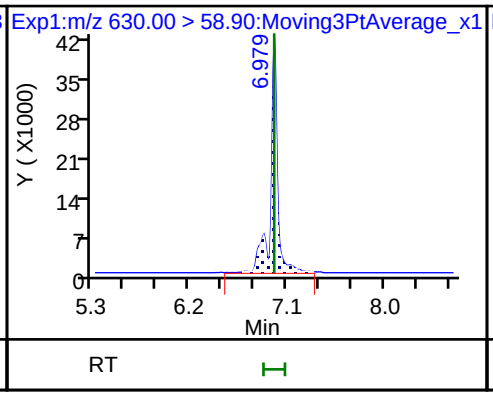
70 NMeFOSA



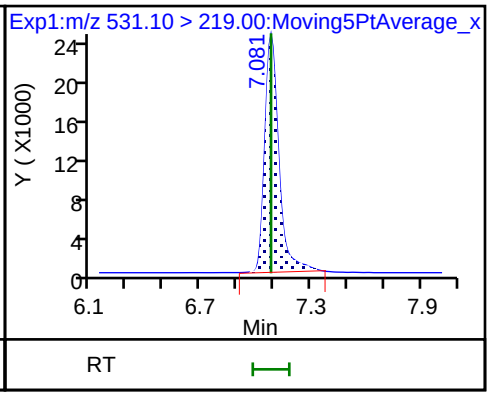
D 71 d9-N-EtFOSE



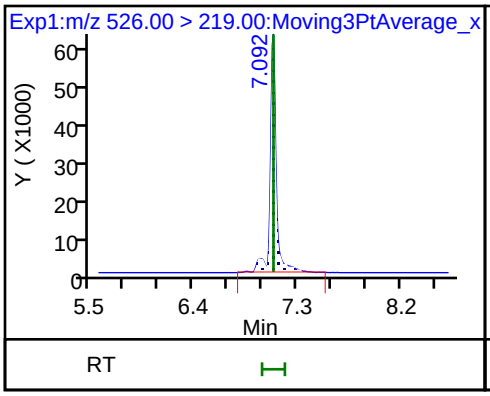
72 N-EtFOSE-M



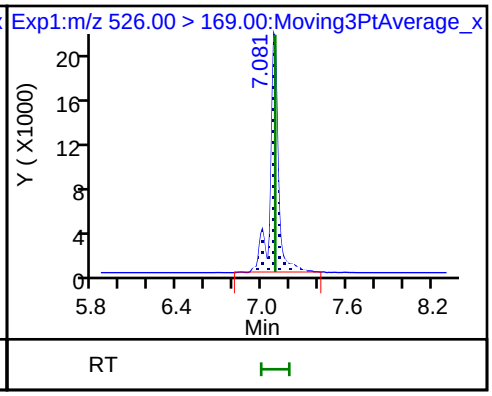
D 73 d5-NEtPFOSA

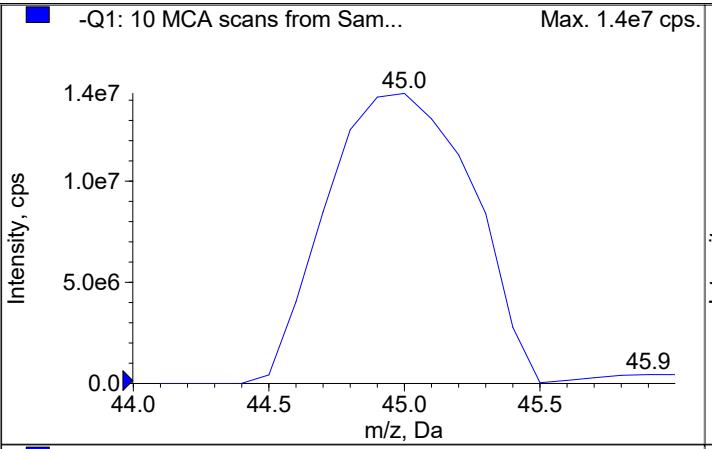


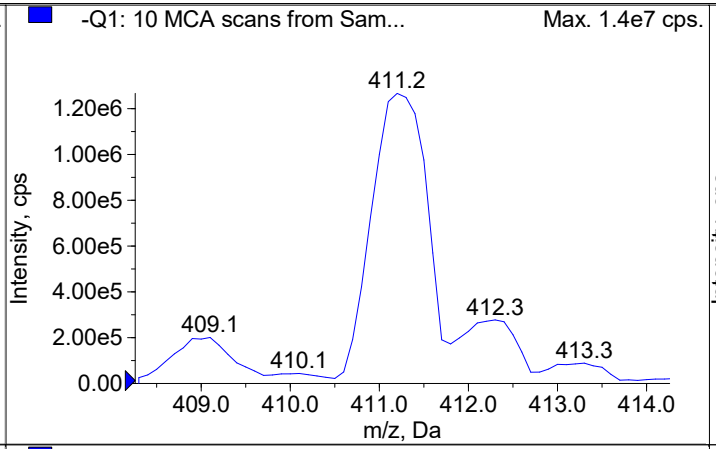
74 N-EtFOSA-M

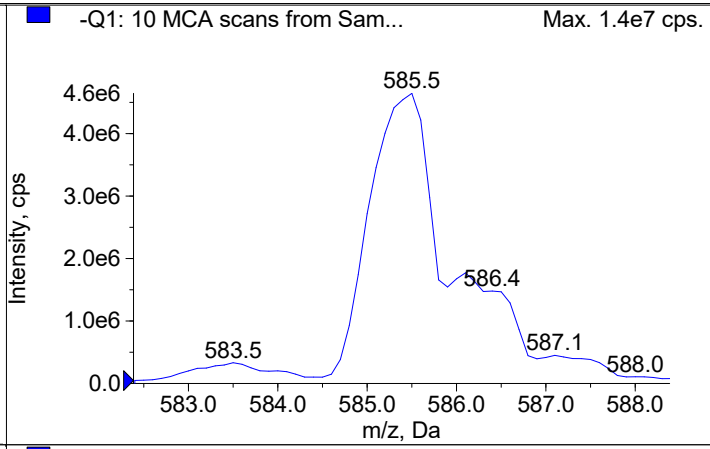


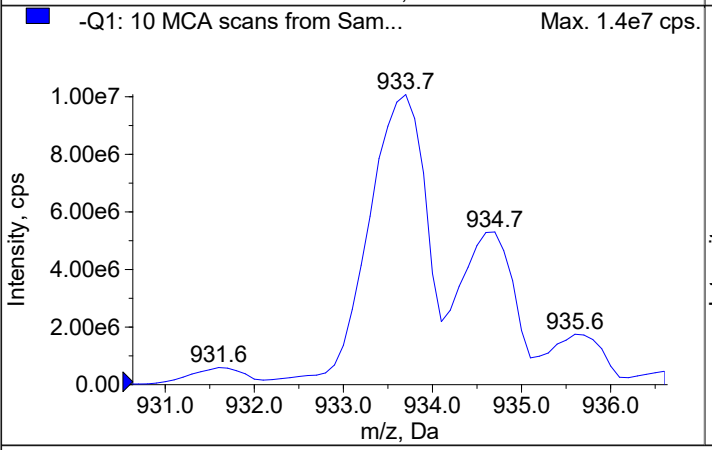
74 N-EtFOSA-M

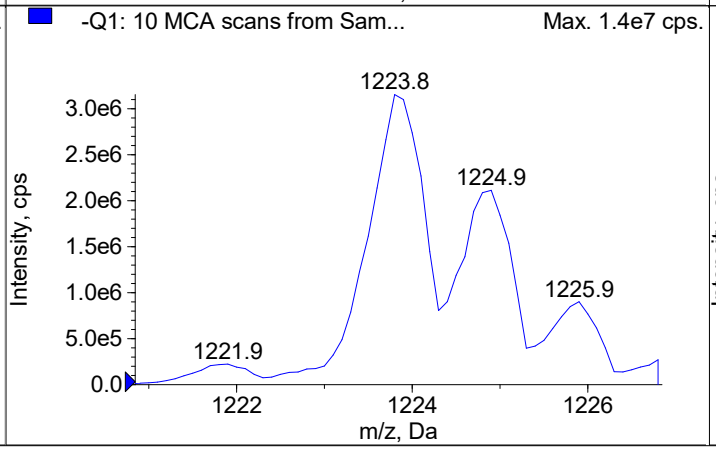


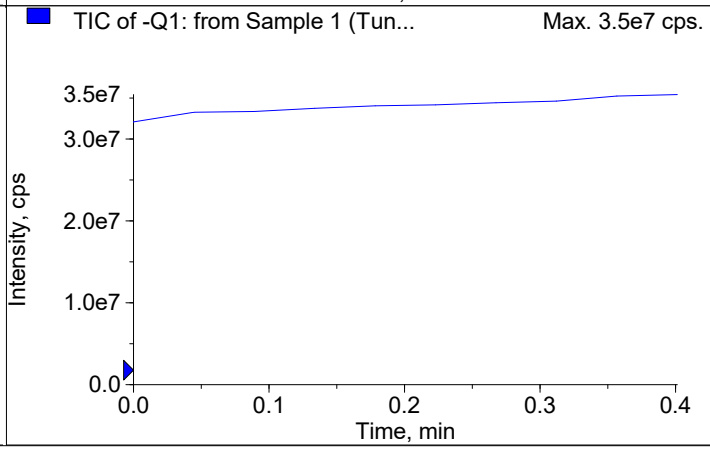






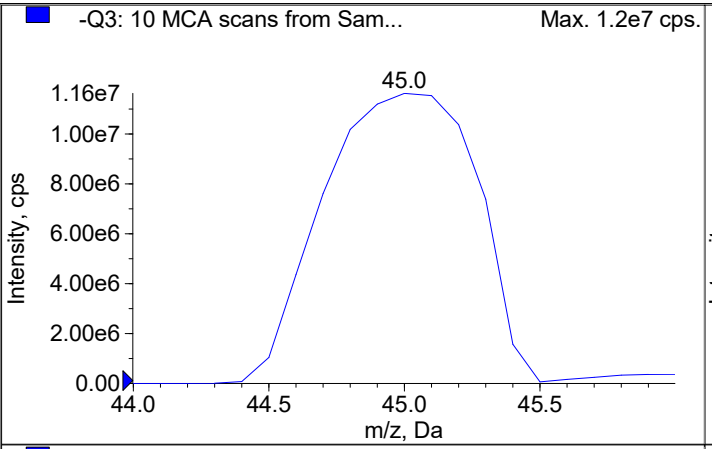


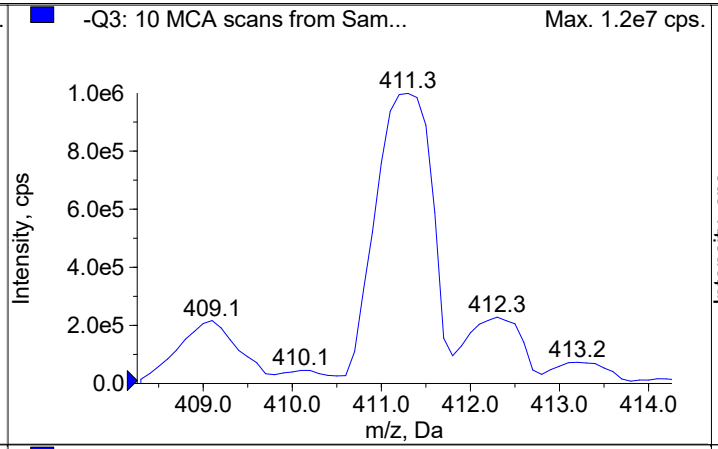


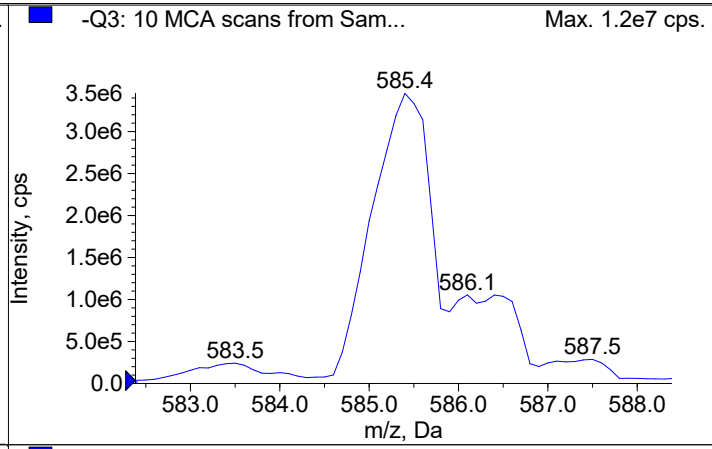


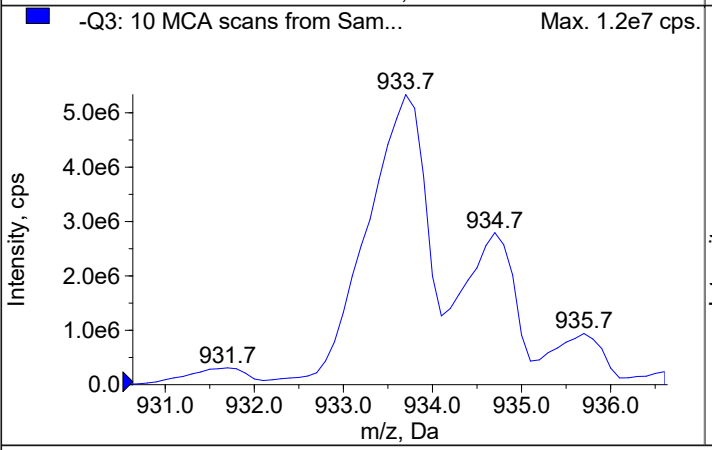
Peak List for " -Q1: 10 MCA scans from Sample 1 (TuneSampleID) of MT20230330143316.wiff (Turbo Spray)"

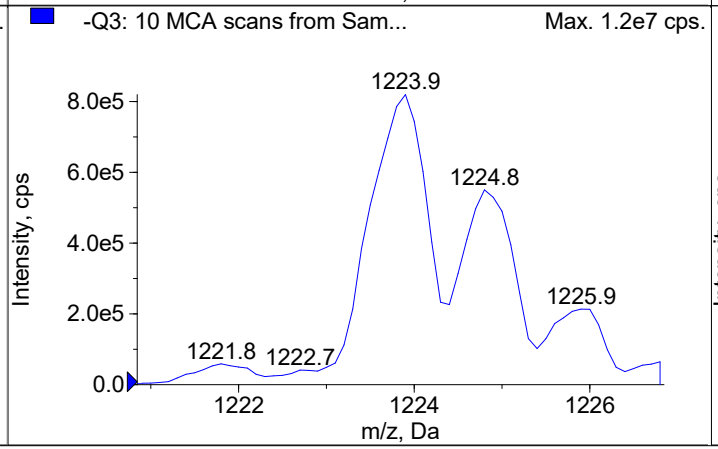
	Target Mass (Da)	Found At (Da)	Intensity (cps)	Width (Da)	Mass Shift (Da)
1	44.9980	44.9881	1.4337e7	0.6515	9.8622e-3
2	411.2590	411.2354	1.2668e6	0.7146	0.0236
3	585.3850	585.3934	4.6440e6	0.7901	-8.3650e-3
4	933.6360	933.6350	1.0076e7	0.7142	1.0355e-3
5	1223.8450	1223.8542	3.1543e6	0.6941	-9.1748e-3
6	1572.0970	n/a	n/a	n/a	n/a
7	1863.3060	n/a	n/a	n/a	n/a
8	1979.3890	n/a	n/a	n/a	n/a

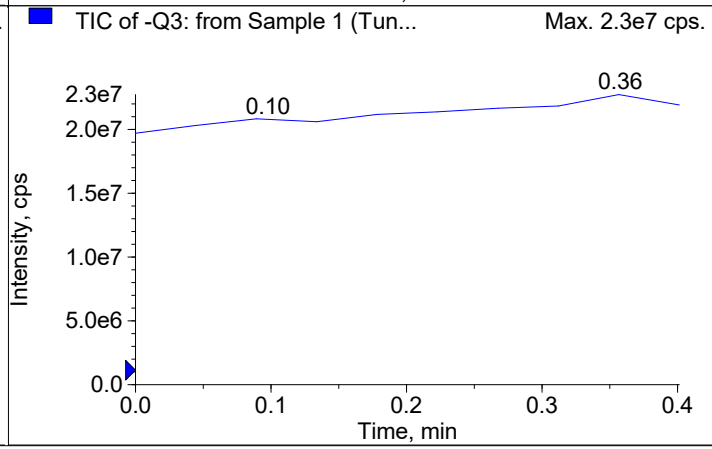












Peak List for " -Q3: 10 MCA scans from Sample 1 (TuneSampleID) of MT20230330142920.wiff (Turbo Spray)"

	Target Mass (Da)	Found At (Da)	Intensity (cps)	Width (Da)	Mass Shift (Da)
1	44.9980	45.0001	1.1628e7	0.6824	-2.1478e-3
2	411.2590	411.2736	9.9870e5	0.7315	-0.0146
3	585.3850	585.3881	3.4546e6	0.7613	-3.1238e-3
4	933.6360	933.6506	5.3351e6	0.7410	-0.0146
5	1223.8450	1223.8361	8.1970e5	0.7763	8.8829e-3
6	1572.0970	n/a	n/a	n/a	n/a
7	1863.3060	n/a	n/a	n/a	n/a
8	1979.3890	n/a	n/a	n/a	n/a

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-08.d
Lims ID: WDM
Client ID:
Sample Type: WDM
Inject. Date: 08-Aug-2023 12:04:07 ALS Bottle#: 20010 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: WDM
Misc. Info.: Plate: 1 Rack: 1 410-0090889-003
Operator ID: US19_USR_INS20263 Instrument ID: 30729

Method: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\PFAS_30729_1633.m
Limit Group: LC - 1633 ICAL
Last Update: 08-Aug-2023 14:06:29 Calib Date: 05-Aug-2023 11:25:28
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-11.d

Column 1 : Det: EXP1
Process Host: CTX1655

First Level Reviewer: QY4X Date: 08-Aug-2023 14:02:32
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4-PFBA										
216.80 > 171.90	2.932	2.932	0.0	1.000	1350875	10.5		105	80150	
* 3 13C3PFBA										
216.00 > 172.00	2.932	2.932	0.0		794890	5.00			2157	
D 7 13C5 PFPeA										
268.30 > 223.00	3.444	3.444	0.0	0.918	370788	5.08		102	23487	
11 TDCA										
498.00 > 80.00	3.615	3.615	0.0	0.718	51603	0.3122			4479	
D 10 13C2-4:2FTS										
329.10 > 80.90	3.638	3.638	0.0	0.827	63154	4.64	Target=0.35	98.9	2996	
329.10 > 309.00	3.627	3.638	-0.011	0.824	180543		0.35(0.18-0.53)	98.9	10990	
D 14 13C5 PFHxA										
318.00 > 273.00	3.750	3.750	0.0	1.000	41598	2.34	Target=15.34	93.7	2735	
318.00 > 120.30	3.750	3.750	0.0	1.000	2464		16.88(7.67-23.01)	93.7	164	
* 15 13C2 PFHxA										
315.10 > 270.00	3.750	3.750	0.0		253885	2.50	Target=103.53		16298	
315.10 > 119.40	3.750	3.750	0.0		2163		117.38(51.76-155.29)		153	
D 18 13C3 PFBS										
302.10 > 79.90	3.856	3.856	0.0	0.876	448540	2.33	Target=6.99	100	27628	
302.10 > 98.90	3.856	3.856	0.0	0.876	68312		6.57(3.50-10.49)	100	4395	
21 TCDCA										
498.10 > 80.00	3.867	3.867	0.0	0.768	63768	0.3858			2423	
D 20 13C3 HFPO-DA										
286.90 > 168.90	3.867	3.867	0.0	1.031	1128700	10.1	Target=29.00	101	67135	
286.90 > 184.90	3.856	3.867	-0.011	1.028	39482		28.59(14.50-43.50)	101	2501	
22 TUDCA										
498.20 > 80.00	3.944	3.944	0.0	0.784	17207	0.1041			343	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 25 13C4 PFHpA										
367.10 > 322.00	4.018	4.018	0.0	1.071	550014	2.58		103	33699	
D 29 13C2-6:2FTS										R
429.10 > 80.90	4.129	4.129	0.0	0.938	36787	5.23	Target=0.12	110	2154	R
429.10 > 409.00	4.118	4.129	-0.011	0.936	166526		0.22(0.06-0.18)	110	9802	
32 PFOA										
413.00 > 369.00	4.250	4.250	0.0	0.998	509218	4.32	Target=2.36		700	
413.00 > 169.00	4.250	4.250	0.0	0.998	214606		2.37(1.18-3.53)		813	
* 30 13C4 PFOA										
417.10 > 172.00	4.261	4.261	0.0		26743	2.50			1724	
D 31 13C8 PFOA										
421.10 > 376.00	4.261	4.261	0.0	1.000	597078	2.35		93.9	36984	
* 35 18O2 PFHxS										
403.00 > 83.90	4.401	4.401	0.0		439210	2.37			28790	
D 36 13C3 PFHxS										
402.10 > 79.90	4.411	4.411	0.0	1.002	480634	2.30	Target=3.90	97.1	24339	
402.10 > 98.80	4.401	4.411	-0.010	1.000	128235		3.75(1.95-5.85)	97.1	8579	
* 37 13C5 PFNA										
468.00 > 423.00	4.493	4.493	0.0		147015	1.25			9609	
39 PFNA										
463.00 > 419.00	4.493	4.493	0.0	1.000	951020	10.7	Target=5.25		1303	
463.00 > 219.00	4.493	4.493	0.0	1.000	205562		4.63(2.63-7.88)		557	
D 38 13C9 PFNA										
472.10 > 427.00	4.493	4.493	0.0	1.000	131990	1.06		85.0	8538	
D 41 13C2-8:2FTS										
529.10 > 80.90	4.601	4.601	0.0	1.045	16171	4.31	Target=0.14	89.8	1123	
529.10 > 509.00	4.601	4.601	0.0	1.045	128183		0.13(0.07-0.21)	89.8	8332	
D 44 d3-NMeFOSAA										
573.20 > 419.00	4.723	4.723	0.0	0.938	290471	5.07		101	11516	
* 46 13C2 PFDA										
515.10 > 470.10	4.778	4.778	0.0		193237	1.25			13172	
D 47 13C6 PFDA										
519.10 > 474.10	4.778	4.778	0.0	1.000	189426	1.22		97.2	9881	
D 49 d5-NEtFOSAA										
589.20 > 419.00	4.874	4.874	0.0	0.969	264591	4.97		99.3	13136	
* 52 13C4 PFOS										
502.80 > 79.90	5.033	5.033	0.0		275783	2.40	Target=4.18		18360	
502.80 > 98.90	5.023	5.033	-0.010		73270		3.76(2.09-6.27)		5084	
D 51 13C8 PFOS										
507.10 > 79.90	5.033	5.033	0.0	1.000	395909	2.41	Target=3.96	101	25592	
507.10 > 98.90	5.023	5.033	-0.010	0.998	101424		3.90(1.98-5.94)	101	6882	
D 54 13C7 PFUnA										
570.00 > 525.10	5.170	5.170	0.0	1.082	183472	1.28		102	9616	
D 58 PFDoDA										
615.10 > 570.00	5.646	5.646	0.0	1.182	160993	1.27		101	9149	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
60 PFOSA										
498.10 > 77.90	5.915	5.915	0.0	0.999	1283269	4.56	Target=58.34		21331	
498.10 > 478.00	5.915	5.915	0.0	0.999	22309		57.52(29.17-87.51)		266	
D 59 13C8 FOSA										
506.10 > 77.80	5.923	5.923	0.0	1.177	681528	2.84		113	46769	
D 65 13C2 PFTeDA										
715.20 > 670.00	6.485	6.485	0.0	1.357	96637	1.35		108	6111	
D 67 d7-N-Me-FOSE										
623.20 > 58.90	6.692	6.692	0.0	1.330	998422	25.3		101	32276	
68 N-MeFOSE-M										
616.10 > 58.90	6.704	6.704	0.0	1.002	198380	4.47			1679	
D 69 d3-NMePFOSA										
515.00 > 219.00	6.823	6.823	0.0	1.356	114697	2.43		97.3	6386	
70 NMeFOSA										
511.90 > 219.00	6.823	6.823	0.0	1.000	179309	4.92	Target=0.78		2786	
511.90 > 169.00	6.823	6.823	0.0	1.000	242426		0.74(0.39-1.17)		2804	
D 71 d9-N-EtFOSE										
639.20 > 58.90	6.957	6.957	0.0	1.382	1239214	25.5		102	37671	
72 N-EtFOSE-M										
630.00 > 58.90	6.978	6.978	0.0	1.003	195153	4.19			641	
D 73 d5-NEtPFOSA										
531.10 > 219.00	7.080	7.080	0.0	1.407	129724	2.57		103	6263	
74 N-EtFOSA-M										
526.00 > 219.00	7.090	7.090	0.0	1.001	231691	4.64	Target=3.00		1708	
526.00 > 169.00	7.080	7.090	-0.010	1.000	83432		2.78(1.50-4.50)		1322	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Reagents:

PFC_LB_1633_00013 Amount Added: 1.00 Units: mL

Report Date: 08-Aug-2023 14:06:36 Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-08.d

Injection Date: 08-Aug-2023 12:04:07 Instrument ID: 30729

Lims ID: WDM

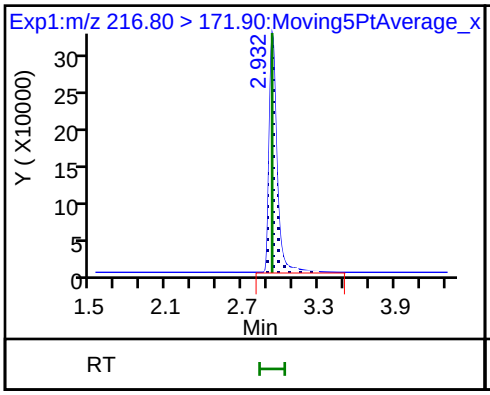
Client ID:

Operator ID: US19_USR_INS20263 ALS Bottle#: 20010 Worklist Smp#: 3

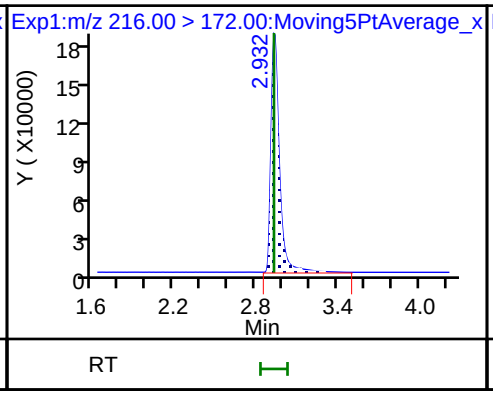
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: PFAS_30729_1633 Limit Group: LC - 1633 ICAL

D 2 13C4-PFBA



* 3 13C3PFBA



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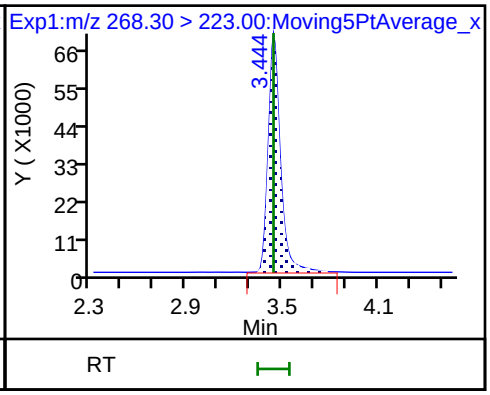
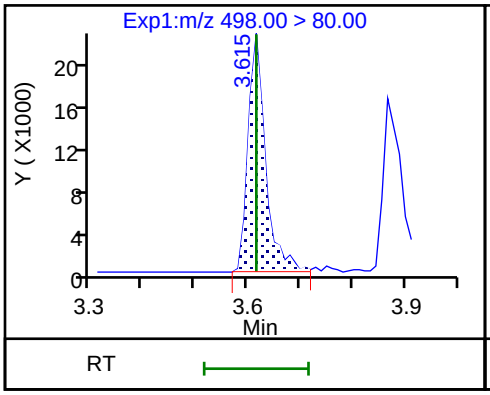
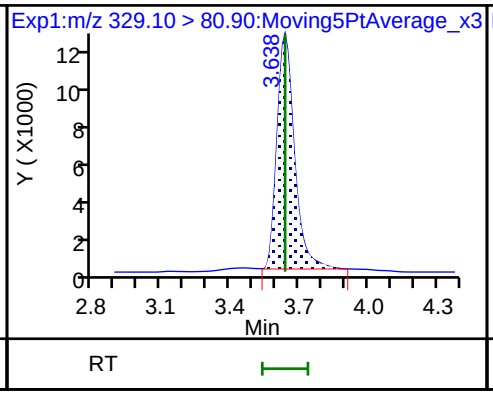


11 TDCA



D 10 13C2-4:2FTS



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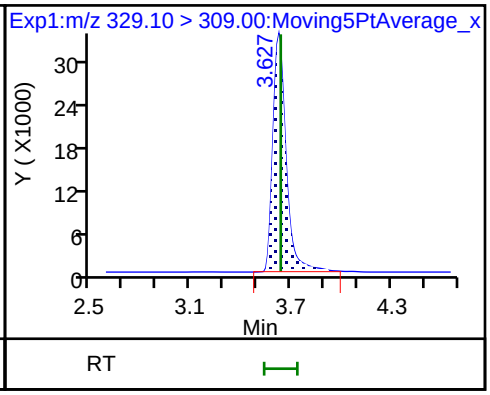

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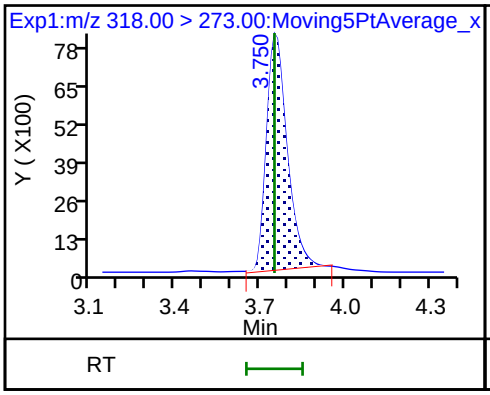

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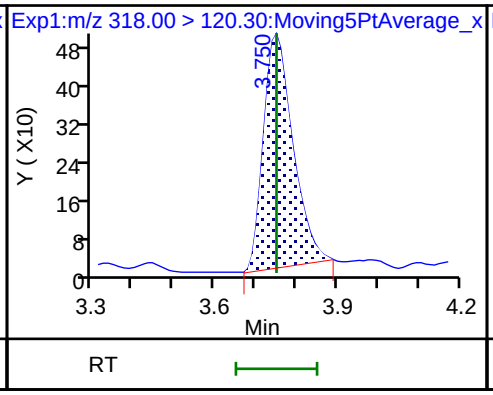

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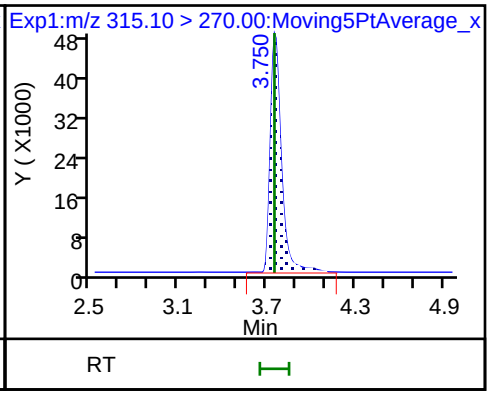

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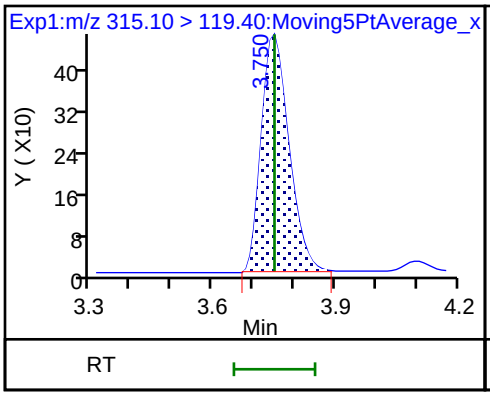

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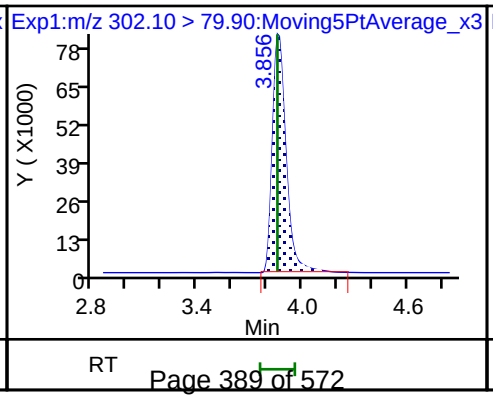

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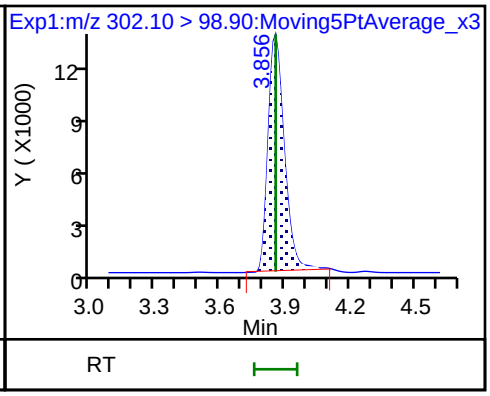

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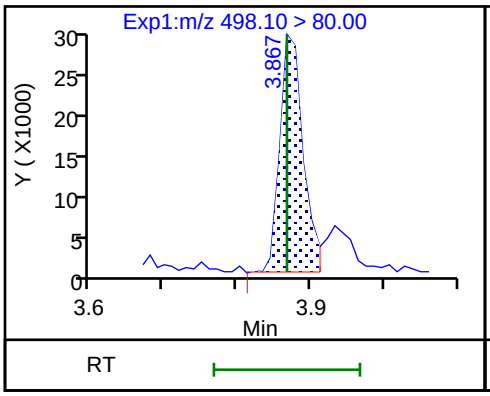

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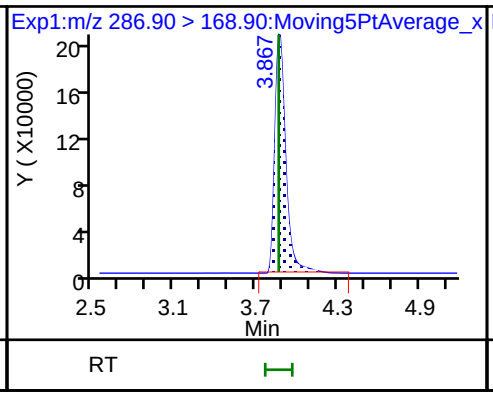

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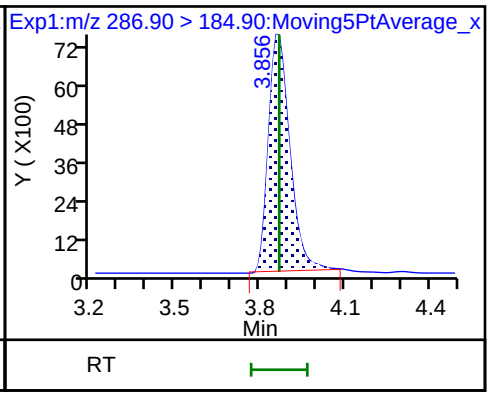

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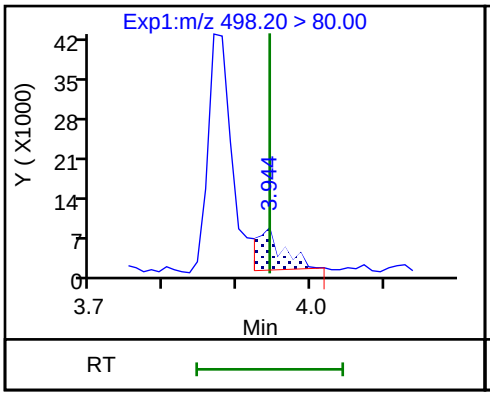

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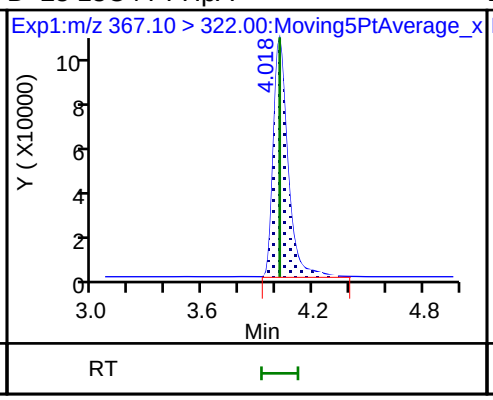

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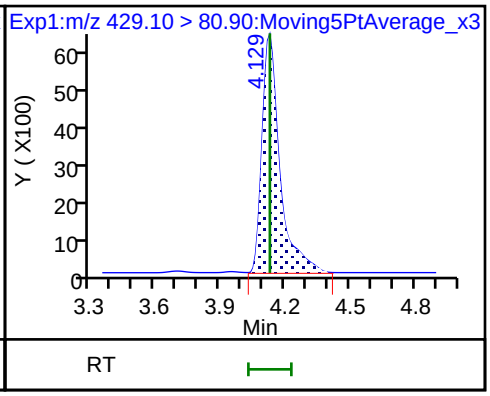

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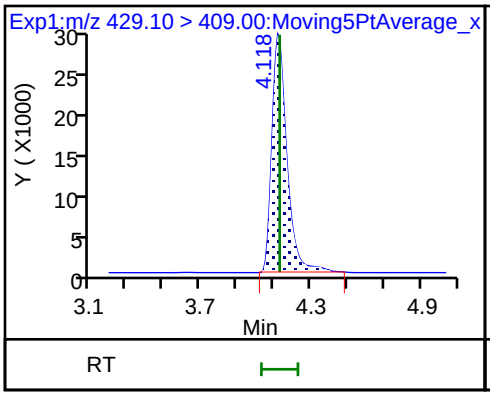

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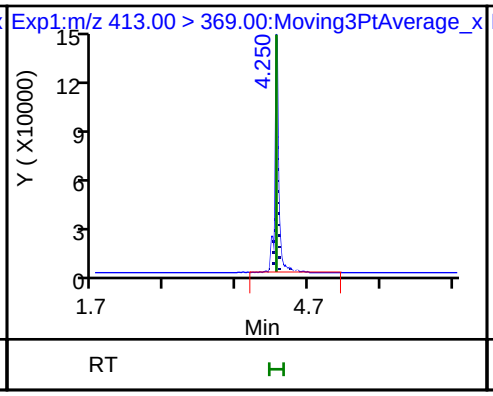

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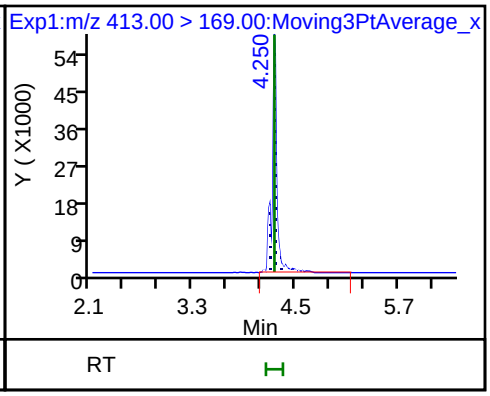

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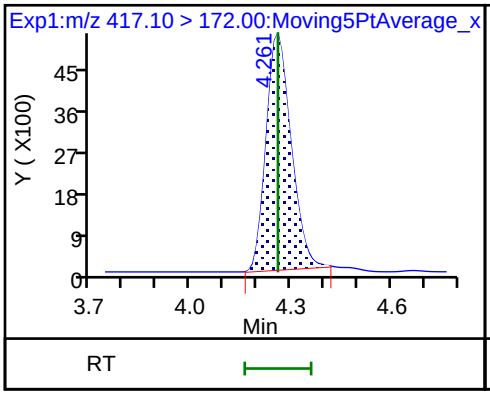

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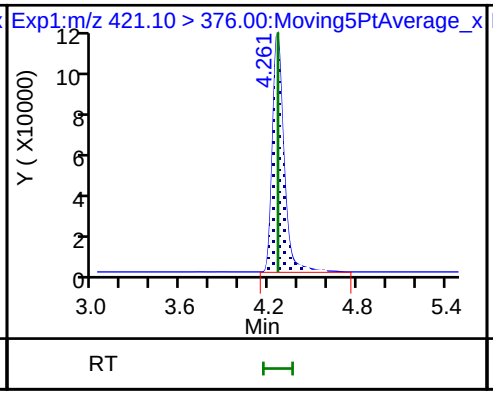

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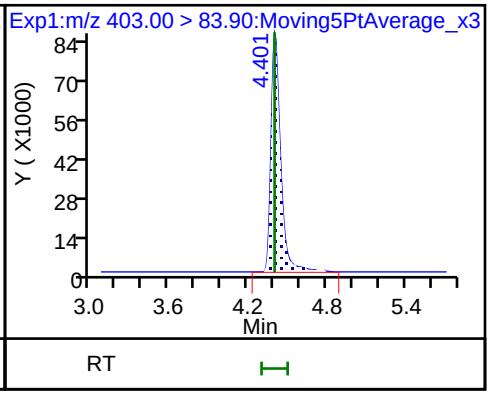

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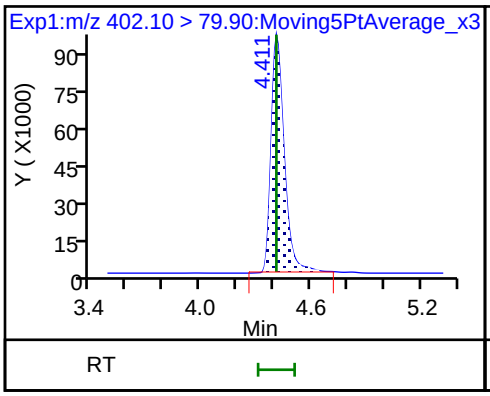

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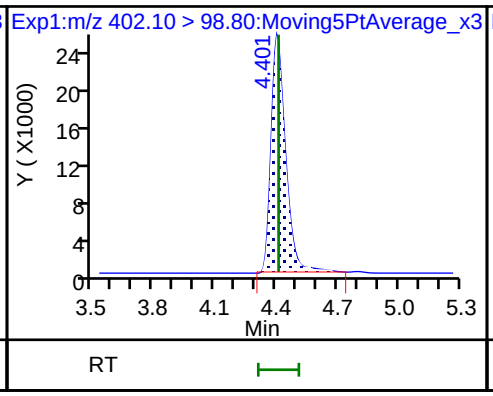
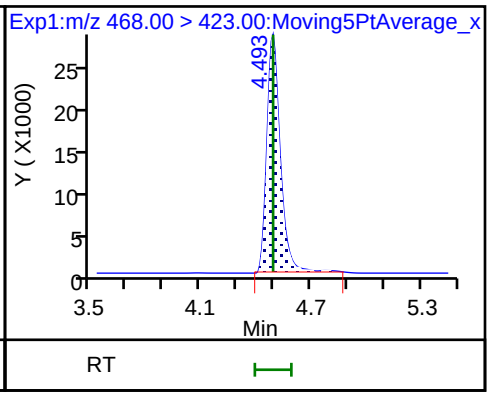


* 37 13C5 PFNA



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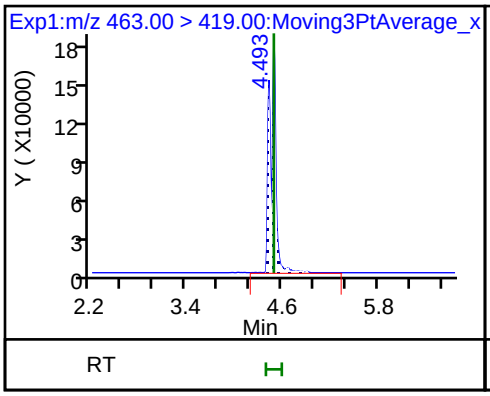

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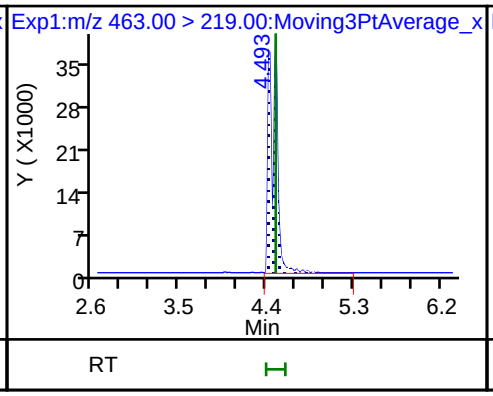

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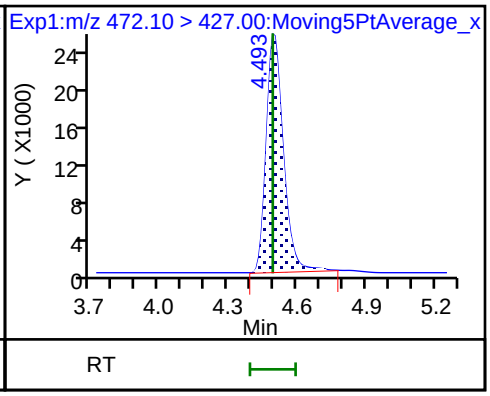

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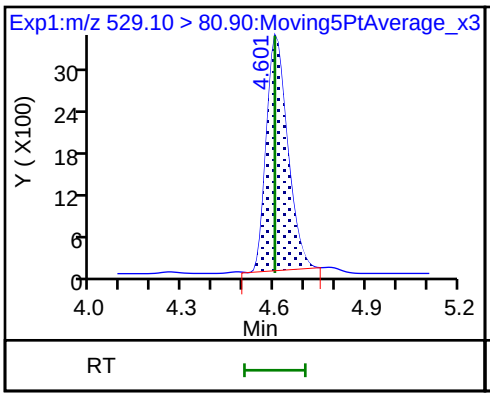

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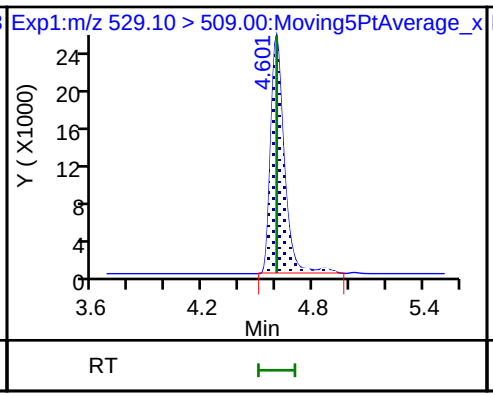

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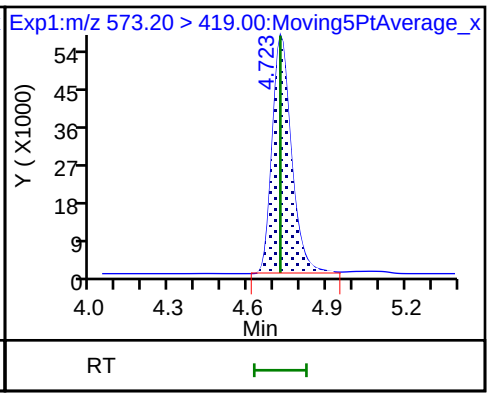

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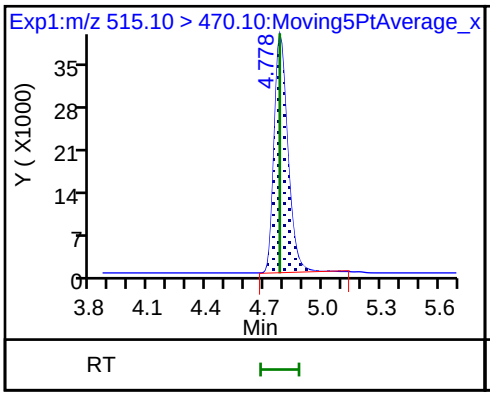

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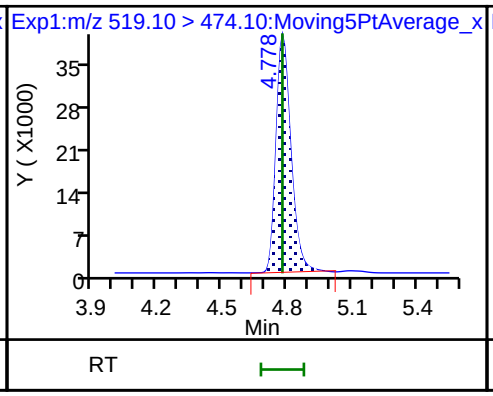

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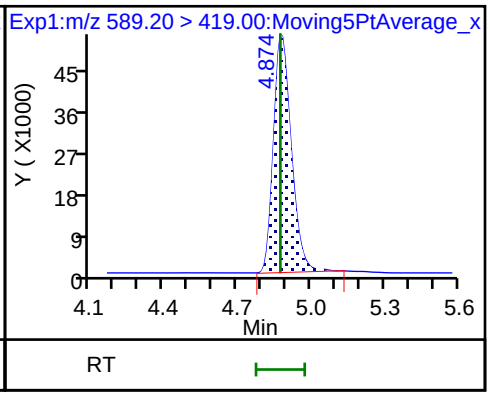

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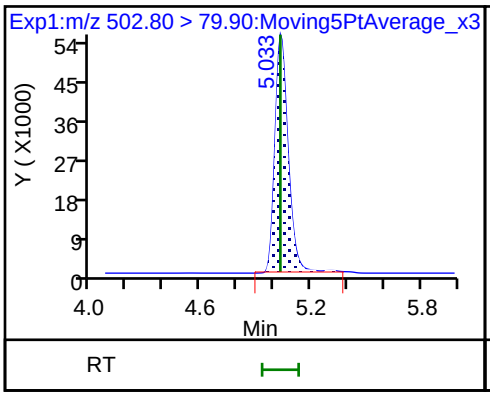

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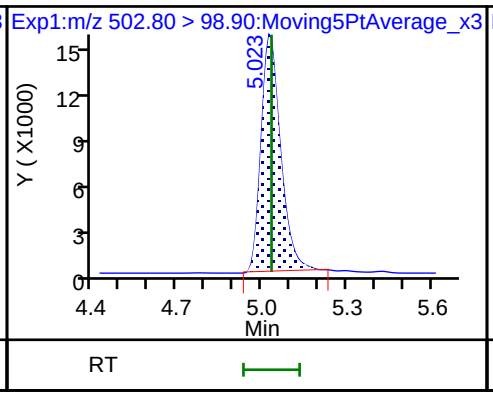

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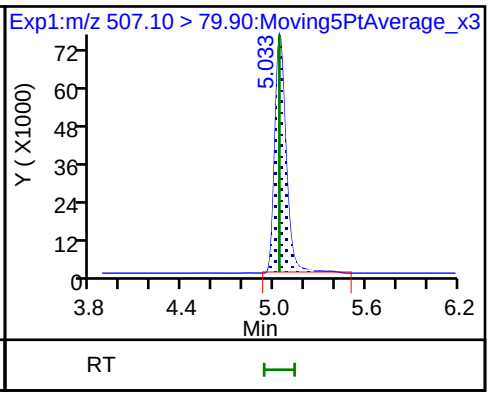

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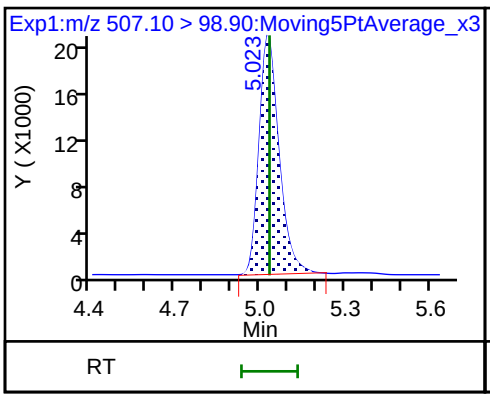

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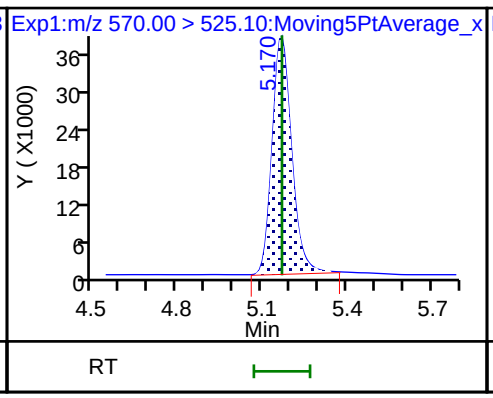

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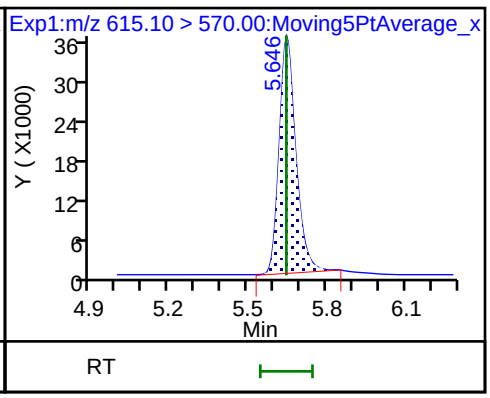

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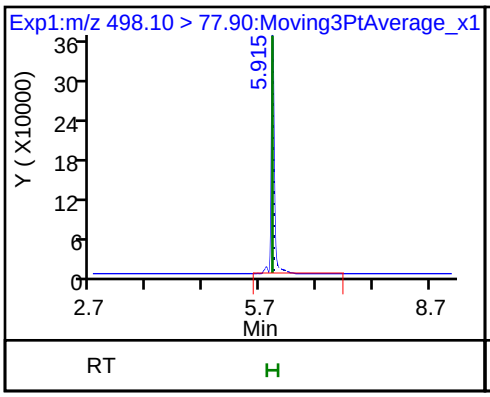

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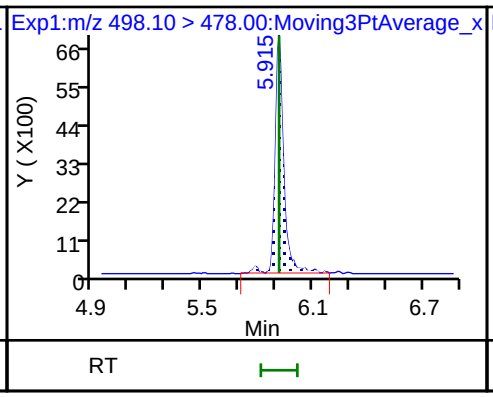

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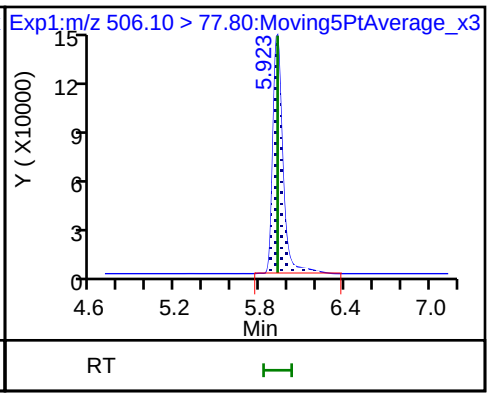
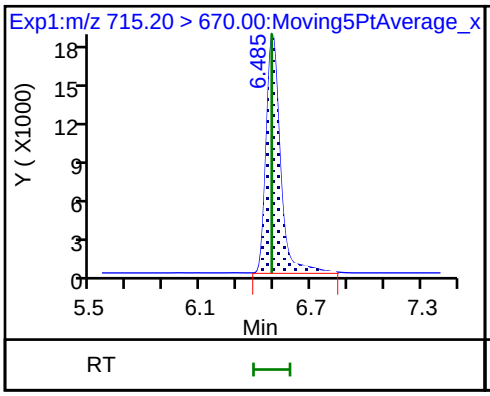
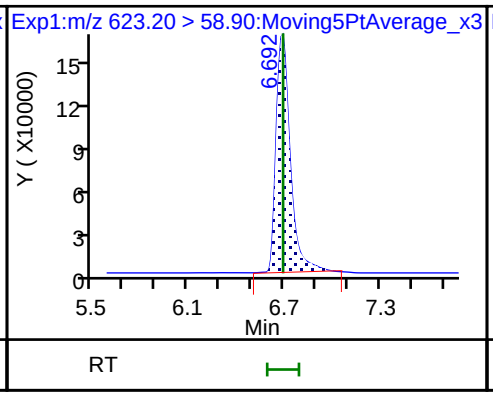


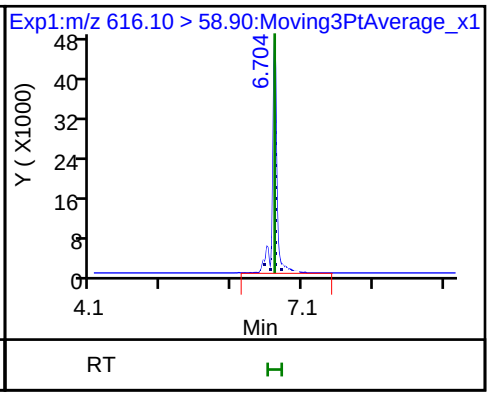
D 65 13C2 PFTeDA



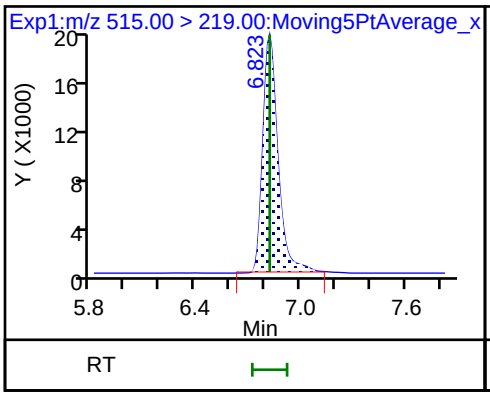
D 67 d7-N-Me-FOSE



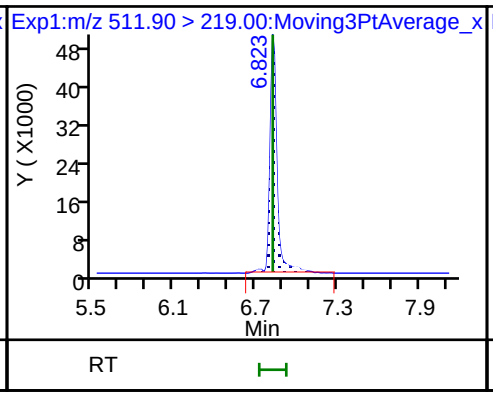
68 N-MeFOSE-M



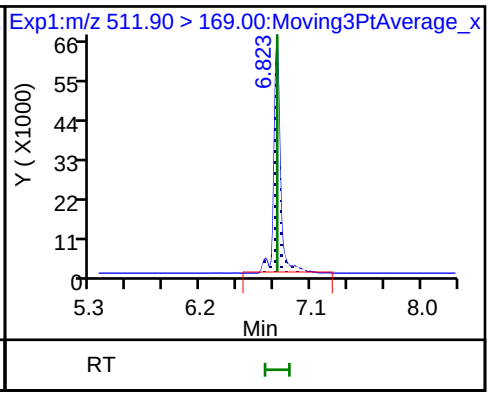
D 69 d3-NMePFOSA



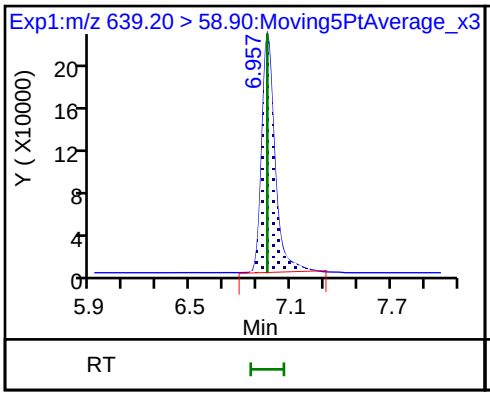
70 NMeFOSA



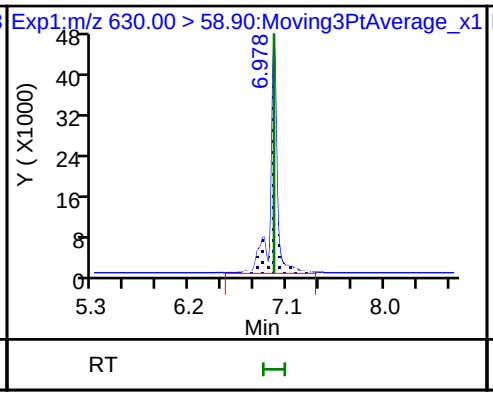
70 NMeFOSA



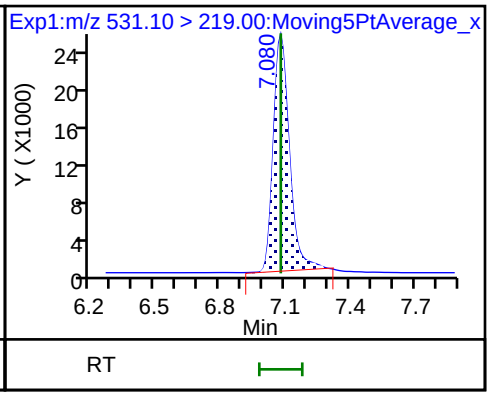
D 71 d9-N-EtFOSE



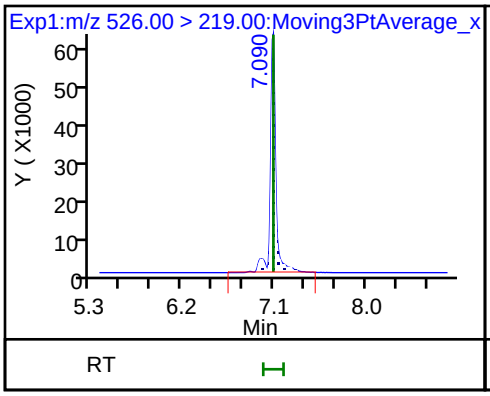
72 N-EtFOSE-M



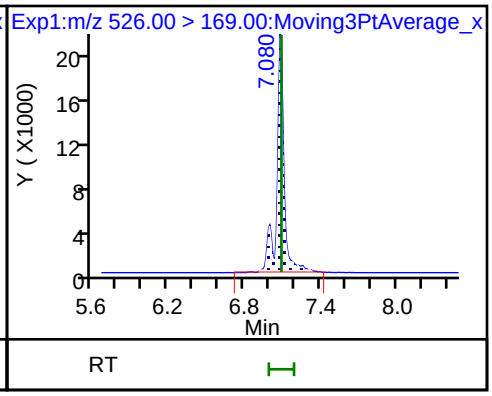
D 73 d5-NEtPFOSA



74 N-EtFOSA-M



74 N-EtFOSA-M



FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-282979-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-397379/1-A

Matrix: Water
Lab File ID: 23AUG08-53.d

Analysis Method: 1633
Date Collected:

Extraction Method: 1633
Date Extracted: 07/17/2023 07:22

Sample wt/vol: 500(mL)
Date Analyzed: 08/08/2023 21:52

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 2(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691
Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.00	U	8.00	1.00
355-46-4	Perfluorohexanesulfonic acid	0.57	U	2.00	0.57
2058-94-8	Perfluoroundecanoic acid	0.50	U	2.00	0.50
335-67-1	Perfluorooctanoic acid	0.64	U	2.00	0.64
335-77-3	Perfluorodecanesulfonic acid	0.50	U	2.00	0.50
376-06-7	Perfluorotetradecanoic acid	0.50	U	2.00	0.50
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.50	U	8.00	1.50
31506-32-8	NMeFOSA	0.50	U	2.00	0.50
812-70-4	7:3 FTCA	10.0	U	50.0	10.0
335-76-2	Perfluorodecanoic acid	0.50	U	2.00	0.50
72629-94-8	Perfluorotridecanoic acid	0.50	U	2.00	0.50
113507-82-7	PFEESA	0.50	U	4.00	0.50
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	0.50	U	2.00	0.50
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	1.70	U	8.00	1.70
375-95-1	Perfluorononanoic acid	0.50	U	2.00	0.50
13252-13-6	HFPO-DA	2.00	U	8.00	2.00
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	5.00	U	20.0	5.00
2706-91-4	Perfluoropentanesulfonic acid	0.50	U	2.00	0.50
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	2.50	U	8.00	2.50
68259-12-1	Perfluorononanesulfonic acid	0.40	U	2.00	0.40
375-85-9	Perfluoroheptanoic acid	0.52	U	2.00	0.52
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	2.00	U	8.00	2.00
1763-23-1	Perfluorooctanesulfonic acid	0.50	U	2.00	0.50
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	2.60	U	8.00	2.60
377-73-1	Perfluoro-3-methoxypropanoic acid	0.50	U	4.00	0.50
375-22-4	Perfluorobutanoic acid	2.00	U	8.00	2.00
2991-50-6	NEtFOSAA	0.70	U	2.00	0.70

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-397379/1-A

Matrix: Water Lab File ID: 23AUG08-53.d

Analysis Method: 1633 Date Collected:

Extraction Method: 1633 Date Extracted: 07/17/2023 07:22

Sample wt/vol: 500(mL) Date Analyzed: 08/08/2023 21:52

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-55-1	Perfluorododecanoic acid	0.50	U	2.00	0.50
307-24-4	Perfluorohexanoic acid	0.50	U	2.00	0.50
863090-89-5	Perfluoro(4-methoxybutanoic acid)	1.00	U	4.00	1.00
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	1.00	U	4.00	1.00
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.90	U	2.00	0.90
2706-90-3	Perfluoropentanoic acid	1.00	U	4.00	1.00
914637-49-3	5:3 FTCA	10.0	U	50.0	10.0
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	5.00	U	20.0	5.00
754-91-6	Perfluorooctanesulfonamide	0.50	U	2.00	0.50
356-02-5	3:3 FTCA	1.50	U	10.0	1.50
2355-31-9	NMeFOSAA	1.20	U	4.00	1.20
375-73-5	Perfluorobutanesulfonic acid	0.30	U	2.00	0.30
375-92-8	Perfluoroheptanesulfonic acid	0.40	U	2.00	0.40

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-397379/1-A

Matrix: Water Lab File ID: 23AUG08-53.d

Analysis Method: 1633 Date Collected:

Extraction Method: 1633 Date Extracted: 07/17/2023 07:22

Sample wt/vol: 500(mL) Date Analyzed: 08/08/2023 21:52

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	103		10-130
STL01893	13C5 PFPeA	112		35-150
STL02577	13C5 PFHxA	105		55-150
STL01892	13C4 PFHpA	110		55-150
STL01052	13C8 PFOA	103		60-140
STL02578	13C9 PFNA	99.2		55-140
STL02579	13C6 PFDA	103		50-140
STL02580	13C7 PFUnA	103		30-140
STL02703	13C2-PFDoDA	101		10-150
STL02116	13C2 PFTeDA	82.8		10-130
STL02337	13C3 PFBS	122		55-150
STL02581	13C3 PFHxS	103		55-150
STL01054	13C8 PFOS	99.4		45-140
STL01056	13C8 FOSA	103		30-130
STL02118	d3-NMeFOSAA	107		45-200
STL02117	d5-NEtFOSAA	107		10-200
STL02395	M2-4:2 FTS	96.3		60-200
STL02279	M2-6:2 FTS	115		60-200
STL02280	M2-8:2 FTS	147		50-200
STL02255	13C3 HFPO-DA	101		25-160
STL02277	d7-N-MeFOSE-M	86.5		10-150
STL02278	d9-N-EtFOSE-M	81.5		10-150
STL02704	d5-NEtPFOSA	54.6		10-130
STL02705	d3-NMePFOSA	49.4		15-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-53.d
Lims ID: MB 410-397379/1-A
Client ID:
Sample Type: MB
Inject. Date: 08-Aug-2023 21:52:56 ALS Bottle#: 38 Worklist Smp#: 48
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-397379/1-A
Misc. Info.: Plate: 1 Rack: 1 410-0090889-048
Operator ID: US19_USR_INS20263 Instrument ID: 30729

Method: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\PFAS_30729_1633.m
Limit Group: LC - 1633 ICAL
Last Update: 09-Aug-2023 09:51:16 Calib Date: 05-Aug-2023 11:25:28
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-11.d

Column 1 : Det: EXP1
Process Host: CTX1649

First Level Reviewer: QY4X Date: 09-Aug-2023 09:19:19
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4-PFBA										
216.80 > 171.90	2.924	2.932	-0.008	1.000	1196454	10.3		103	70809	
* 3 13C3PFBA										
216.00 > 172.00	2.924	2.932	-0.008		714208	5.00			1400	
D 7 13C5 PFPeA										
268.30 > 223.00	3.434	3.444	-0.010	0.918	380683	5.60		112	23634	
D 10 13C2-4:2FTS										
329.10 > 80.90	3.626	3.638	-0.012	0.826	55463	4.52	Target=0.35	96.3	2580	
329.10 > 309.00	3.614	3.638	-0.024	0.823	170904		0.32(0.18-0.53)	96.3	10483	
D 14 13C5 PFHxA										
318.00 > 273.00	3.740	3.750	-0.010	1.000	43350	2.62	Target=15.34	105	2898	
318.00 > 120.30	3.729	3.750	-0.021	0.997	2969		14.60(7.67-23.01)	105	208	
* 15 13C2 PFHxA										RM
315.10 > 270.00	3.740	3.750	-0.010		236577	2.50	Target=103.53		15504	R
315.10 > 119.40	3.719	3.750	-0.031		858		275.73(51.76-155.29)		60.7	M
D 18 13C3 PFBS										
302.10 > 79.90	3.844	3.856	-0.012	0.875	492498	2.84	Target=6.99	122	30917	
302.10 > 98.90	3.844	3.856	-0.012	0.875	64354		7.65(3.50-10.49)	122	3935	
D 20 13C3 HFPO-DA										
286.90 > 168.90	3.856	3.867	-0.011	1.031	1056930	10.1	Target=29.00	101	63478	
286.90 > 184.90	3.856	3.867	-0.011	1.031	37037		28.54(14.50-43.50)	101	2411	
22 TUDCA										
498.20 > 80.00	3.975	3.944	0.031	0.795	343	0.002220			180	
D 25 13C4 PFHpA										
367.10 > 322.00	4.007	4.018	-0.011	1.072	543563	2.74		110	34122	
D 29 13C2-6:2FTS										
429.10 > 80.90	4.118	4.129	-0.011	0.938	34782	5.49	Target=0.12	115	2209	
429.10 > 409.00	4.107	4.129	-0.022	0.935	200395		0.17(0.06-0.18)	115	12223	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 30 13C4 PFOA										
417.10 > 172.00	4.239	4.261	-0.022		23123	2.50			1490	
D 31 13C8 PFOA										
421.10 > 376.00	4.239	4.261	-0.022	1.000	567653	2.58		103	35280	
* 35 18O2 PFHxS										
403.00 > 83.90	4.391	4.401	-0.010		396138	2.37			26747	
D 36 13C3 PFHxS										
402.10 > 79.90	4.391	4.411	-0.020	1.000	458082	2.43	Target=3.90	103	23727	
402.10 > 98.80	4.382	4.411	-0.029	0.998	109399		4.19(1.95-5.85)	103	5832	
* 37 13C5 PFNA										
468.00 > 423.00	4.471	4.493	-0.022		141284	1.25			7191	
D 38 13C9 PFNA										
472.10 > 427.00	4.481	4.493	-0.012	1.002	147962	1.24		99.2	10133	
D 41 13C2-8:2FTS										
529.10 > 80.90	4.589	4.601	-0.012	1.045	23908	7.07	Target=0.14	147	1612	
529.10 > 509.00	4.579	4.601	-0.022	1.043	131252		0.18(0.07-0.21)	147	8532	
D 44 d3-NMeFOSAA										
573.20 > 419.00	4.701	4.723	-0.022	0.940	289950	5.34		107	14378	
* 46 13C2 PFDA										
515.10 > 470.10	4.757	4.778	-0.021		186086	1.25			12973	
D 47 13C6 PFDA										
519.10 > 474.10	4.757	4.778	-0.021	1.000	193187	1.29		103	10038	
D 49 d5-NEtFOSAA										
589.20 > 419.00	4.854	4.874	-0.020	0.970	269479	5.34		107	13406	
* 52 13C4 PFOS										
502.80 > 79.90	5.003	5.033	-0.030		261294	2.40	Target=4.18		17506	
502.80 > 98.90	4.994	5.033	-0.039		67238		3.89(2.09-6.27)		4676	
D 51 13C8 PFOS										
507.10 > 79.90	5.003	5.033	-0.030	1.000	369959	2.38	Target=3.96	99.4	24753	
507.10 > 98.90	4.994	5.033	-0.039	0.998	87744		4.22(1.98-5.94)	99.4	5941	
D 54 13C7 PFUnA										
570.00 > 525.10	5.132	5.170	-0.038	1.079	177317	1.28		103	9005	
D 58 PFDoDA										
615.10 > 570.00	5.608	5.646	-0.038	1.179	154420	1.26		101	11244	
D 59 13C8 FOSA										
506.10 > 77.80	5.904	5.923	-0.019	1.180	588531	2.58		103	40617	
D 65 13C2 PFTeDA										
715.20 > 670.00	6.452	6.485	-0.033	1.356	71409	1.04		82.8	4686	
D 67 d7-N-Me-FOSE										
623.20 > 58.90	6.685	6.692	-0.007	1.336	810074	21.6		86.5	33588	
D 69 d3-NMePFOSA										
515.00 > 219.00	6.815	6.823	-0.008	1.362	55149	1.23		49.4	3056	
D 71 d9-N-EtFOSE										
639.20 > 58.90	6.951	6.957	-0.006	1.389	937420	20.4		81.5	28397	
D 73 d5-NEtPFOSA										
531.10 > 219.00	7.074	7.080	-0.006	1.414	65327	1.36		54.6	4239	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Reagents:

PFC_ST_02214	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 09-Aug-2023 09:52:12 Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-53.d

Injection Date: 08-Aug-2023 21:52:56 Instrument ID: 30729

Lims ID: MB 410-397379/1-A

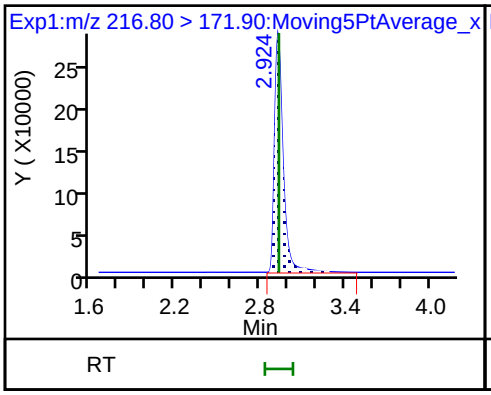
Client ID:

Operator ID: US19_USR_INS20263 ALS Bottle#: 38 Worklist Smp#: 48

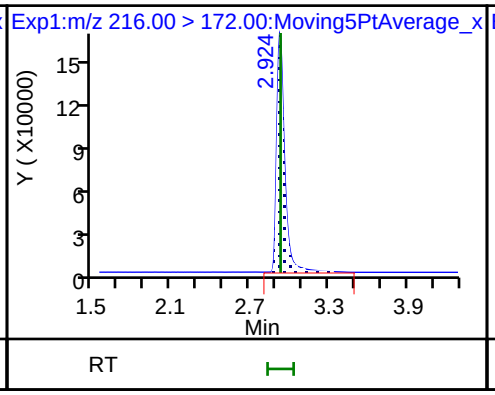
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: PFAS_30729_1633 Limit Group: LC - 1633 ICAL

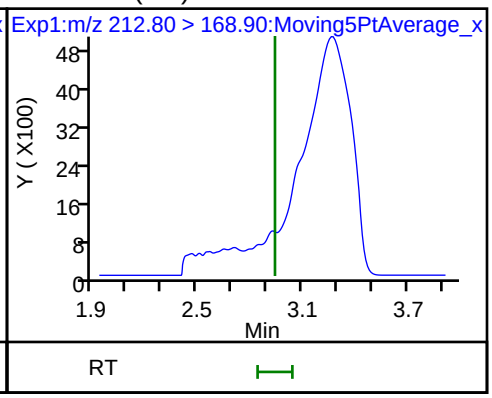
D 2 13C4-PFBA



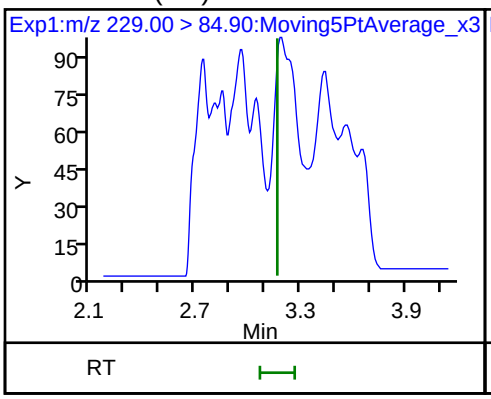
* 3 13C3PFBA



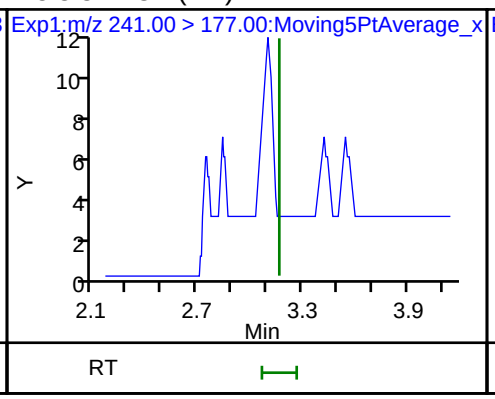
1 PFBA (ND)



4 PFMPA (ND)



5 3:3 FTCA (ND)



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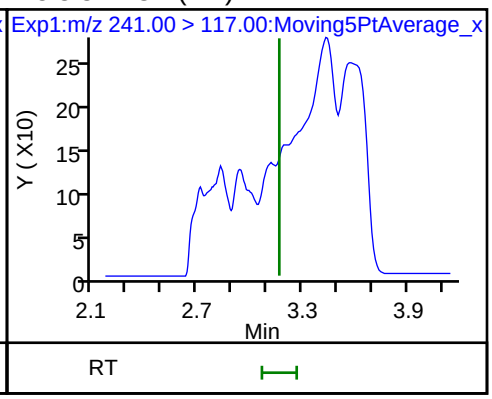
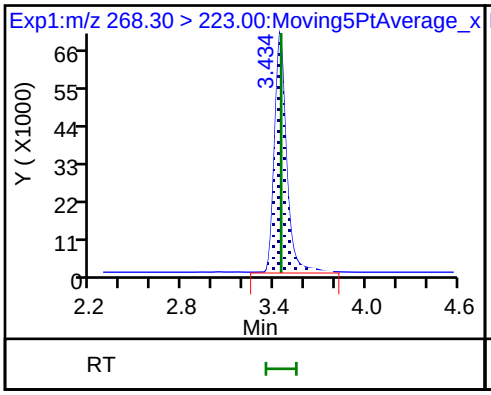
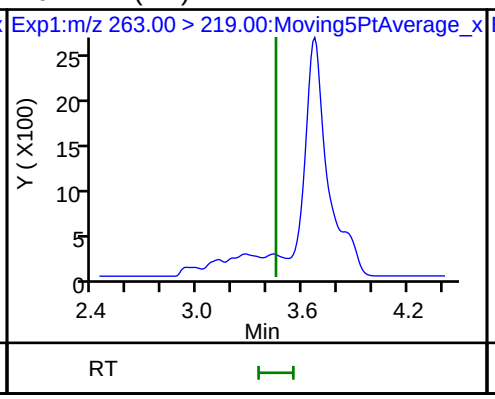


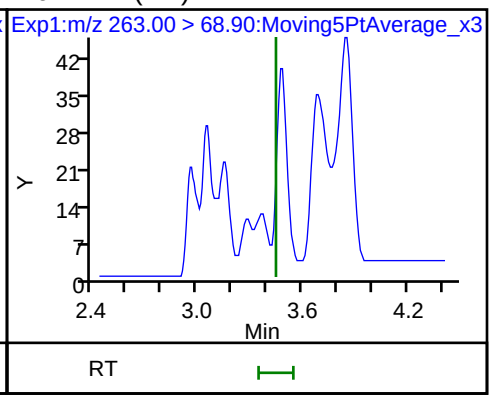
D 7 13C5 PFPeA



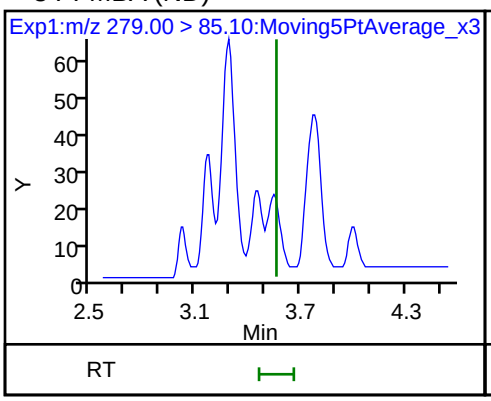
6 PFPA (ND)



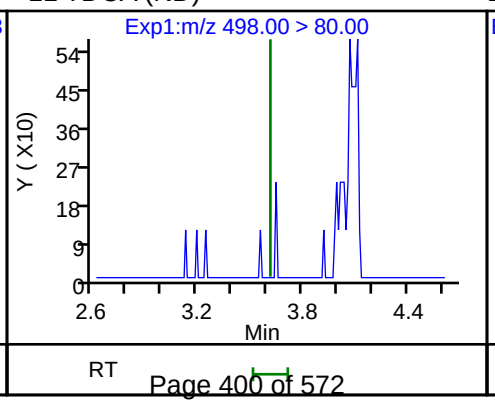
6 PFPA (ND)



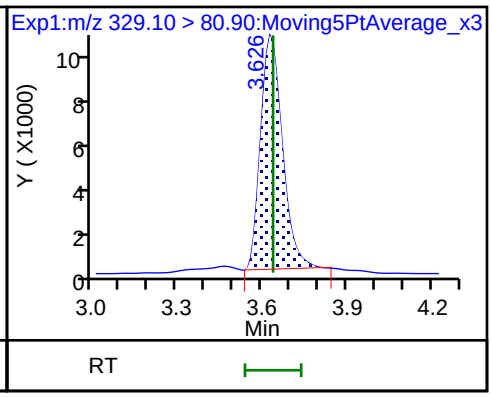
8 PFMBA (ND)



11 TDCA (ND)



D 10 13C2-4:2FTS



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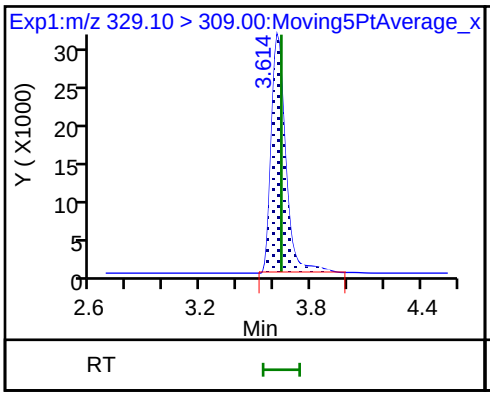
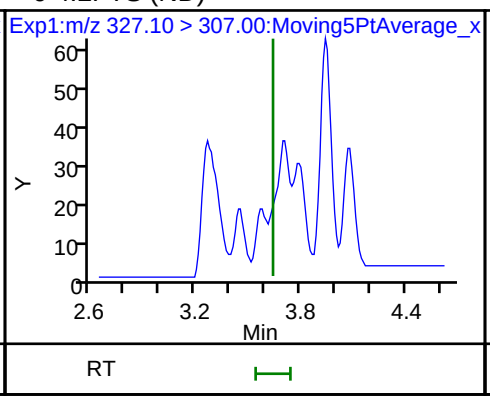


9 4:2FTS (ND)



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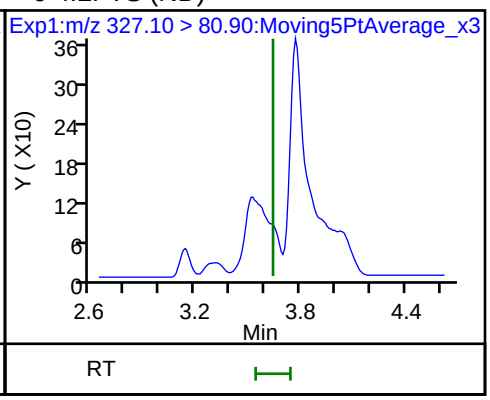
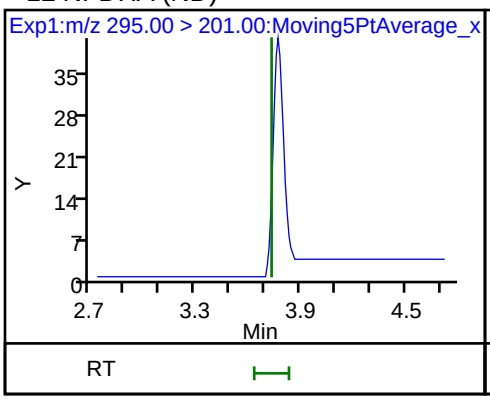
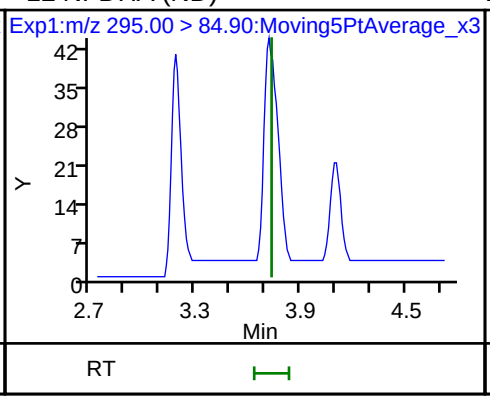


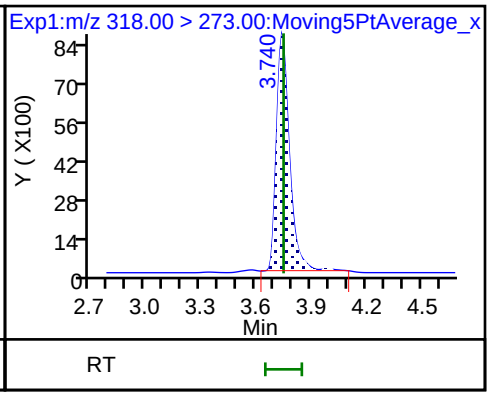
12 NFDHA (ND)



12 NFDHA (ND)



D 14 13C5 PFHxA



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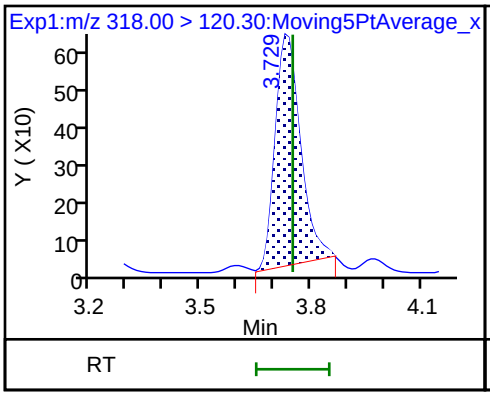
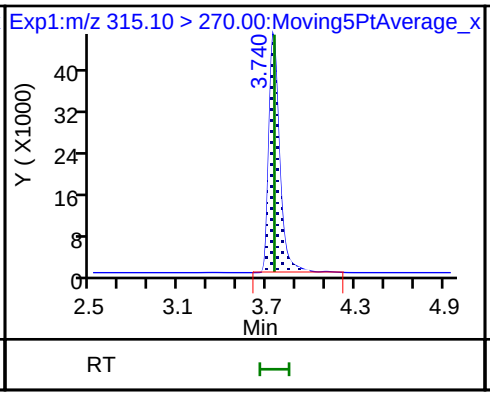
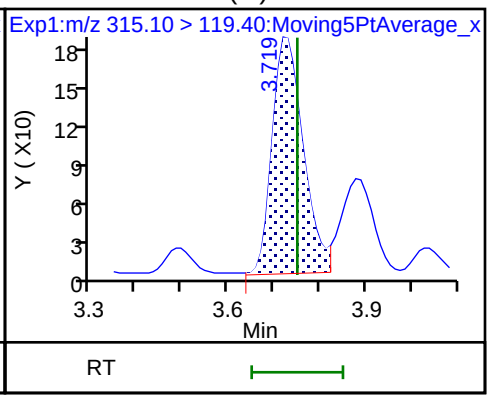


* 15 13C2 PFHxA



* 15 13C2 PFHxA (M)



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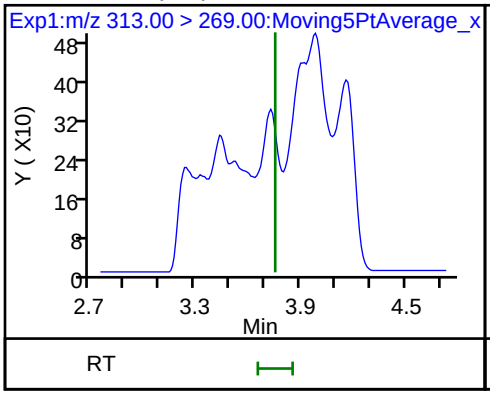

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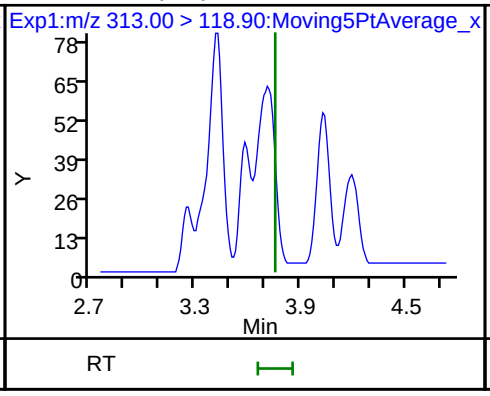
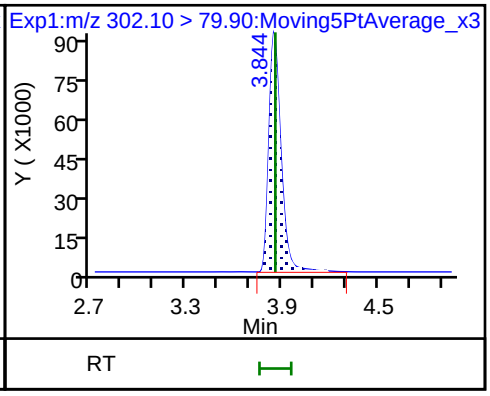
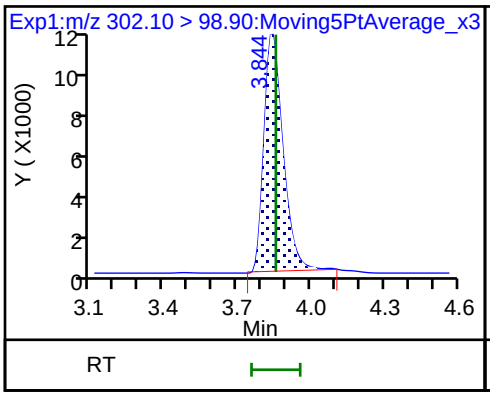


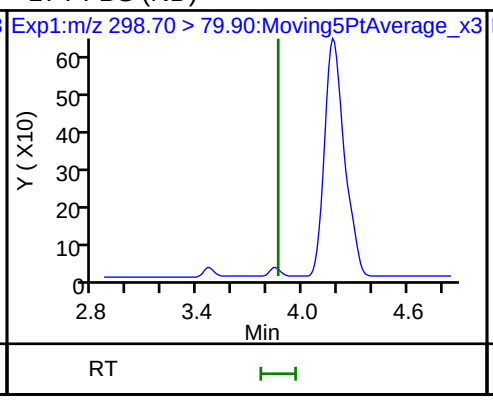
D 18 13C3 PFBS



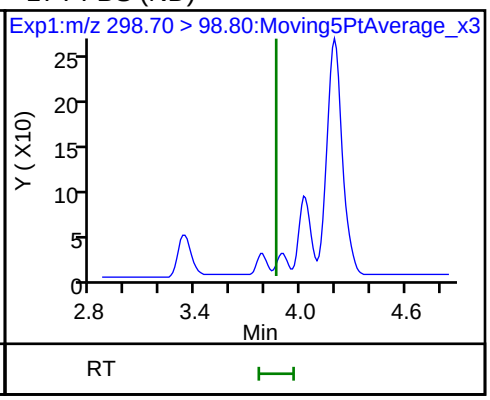
D 18 13C3 PFBS



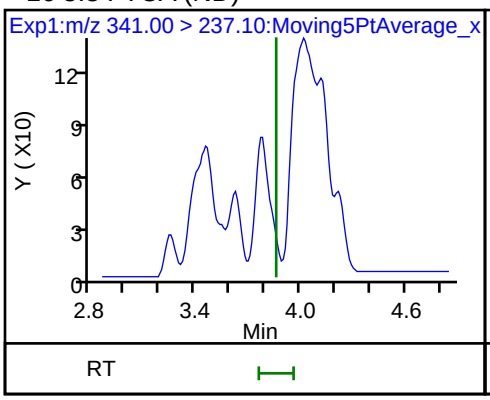
17 PFBS (ND)



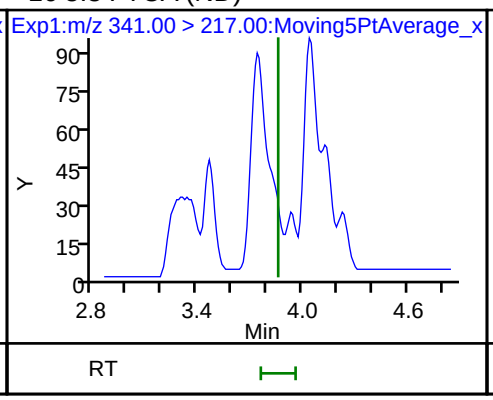
17 PFBS (ND)



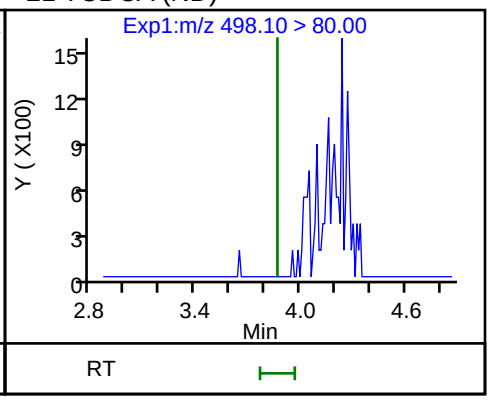
16 5:3 FTCA (ND)



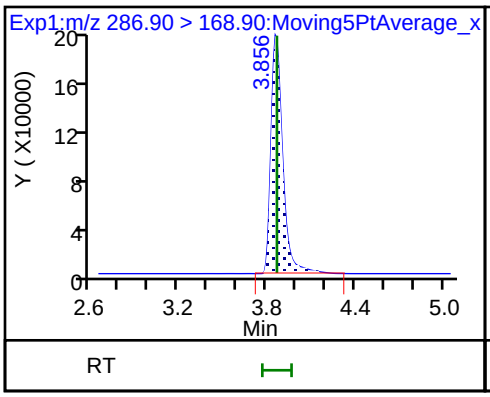
16 5:3 FTCA (ND)



21 TCDCA (ND)



D 20 13C3 HFPO-DA



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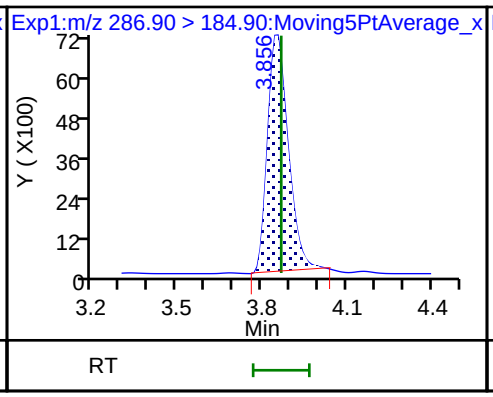

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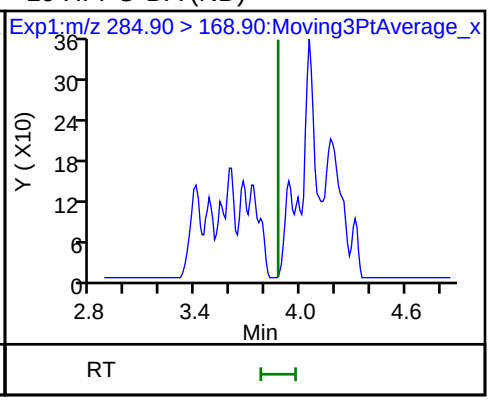

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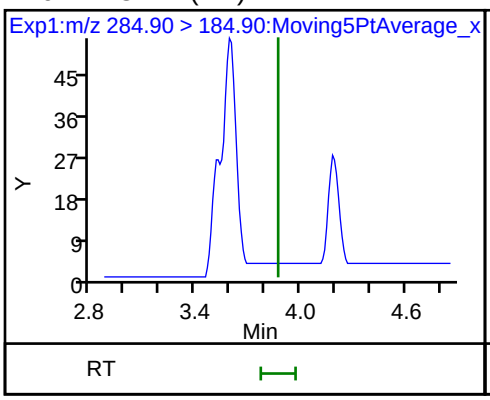
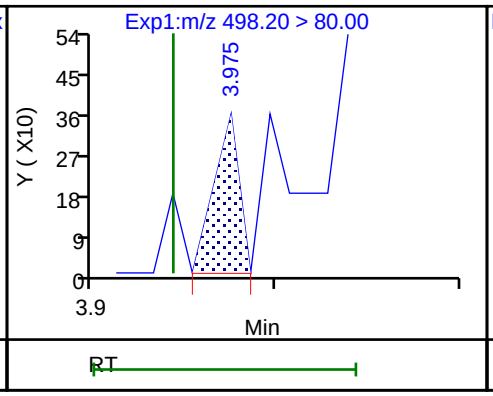


22 TUDCA



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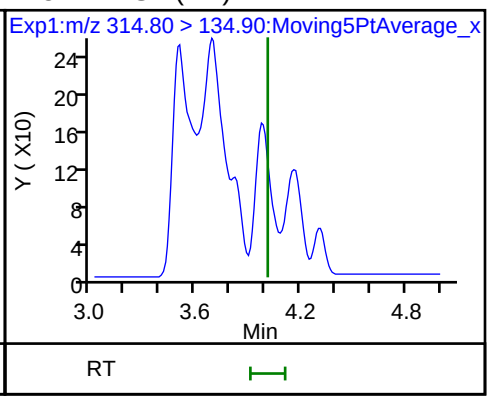

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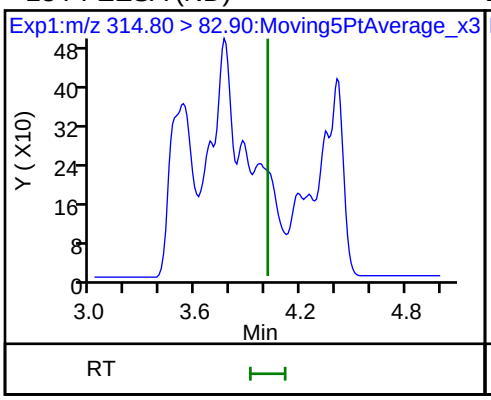
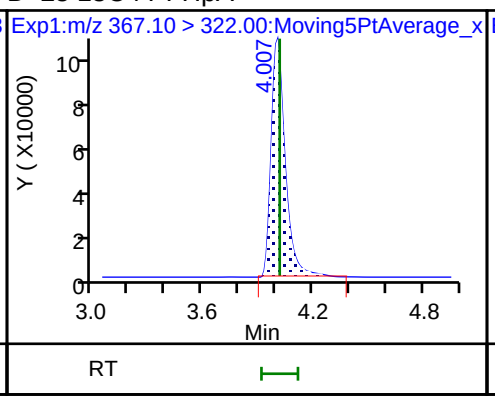


D 25 13C4 PFHpA



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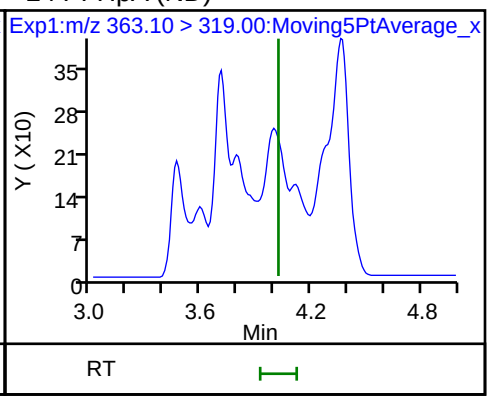

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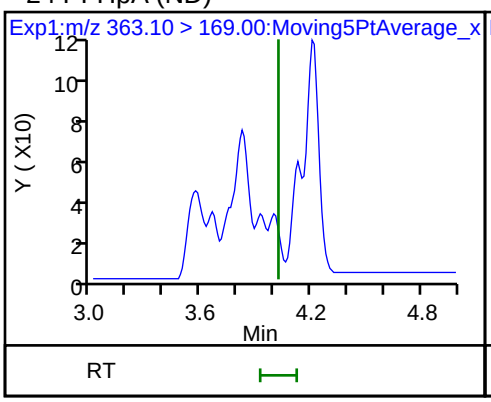

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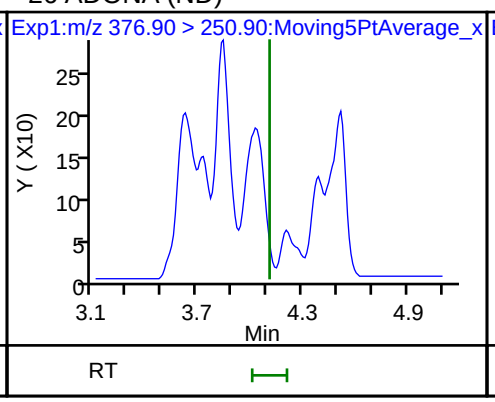

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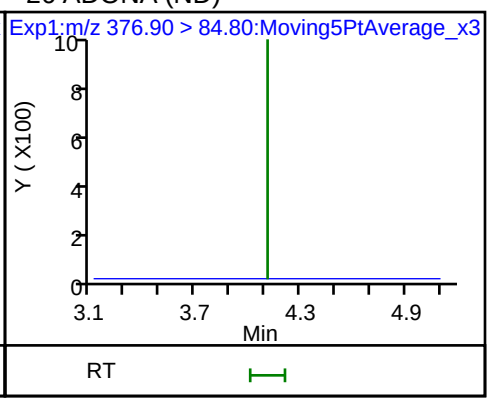
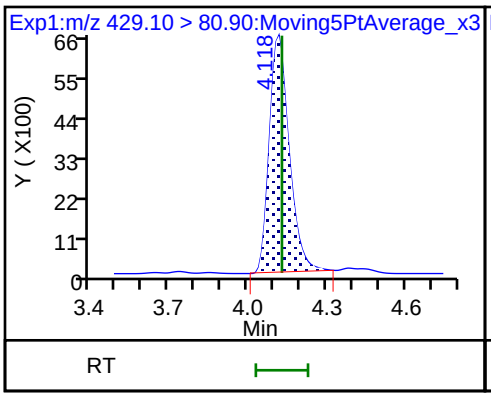
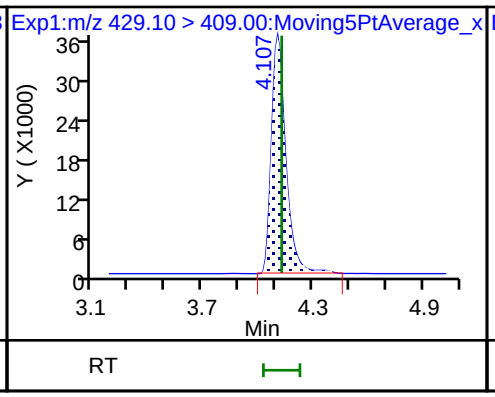


D 29 13C2-6:2FTS



D 29 13C2-6:2FTS



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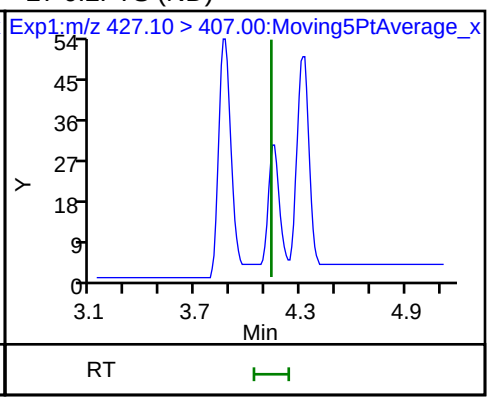

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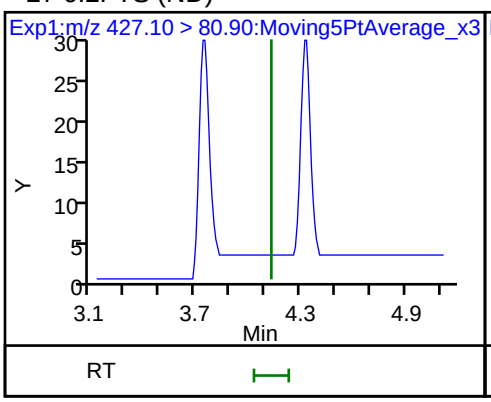

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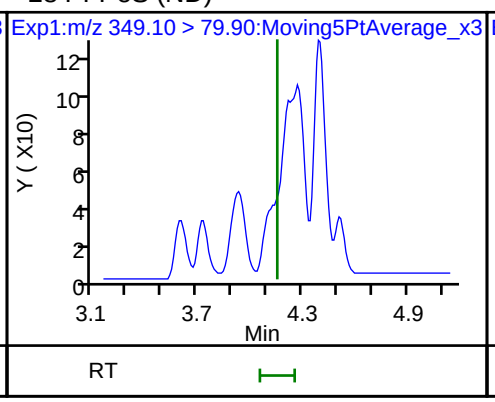

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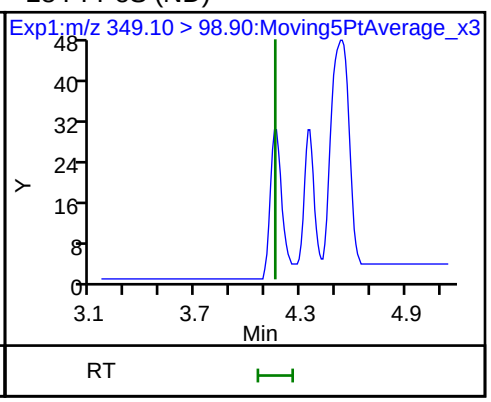
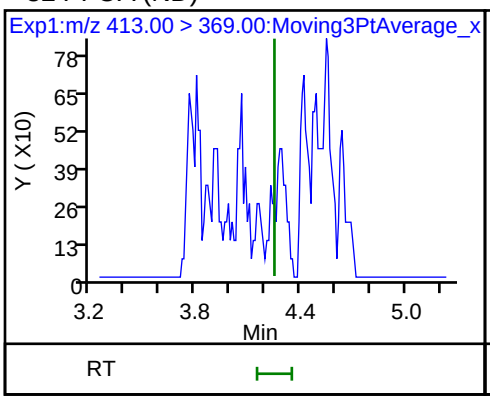


32 PFOA (ND)



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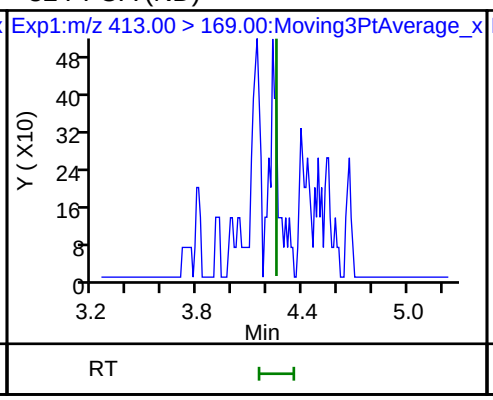
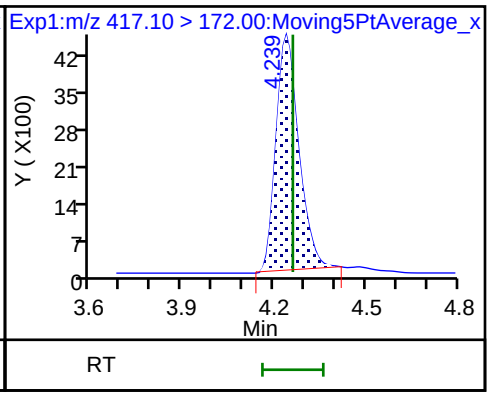
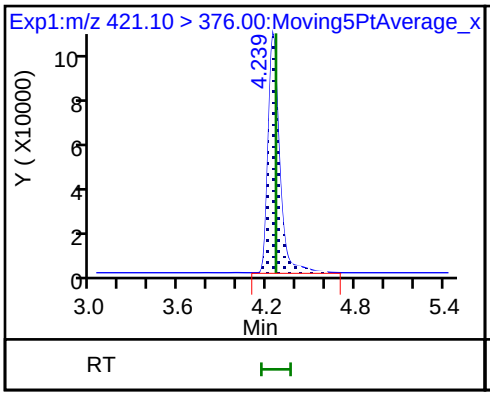


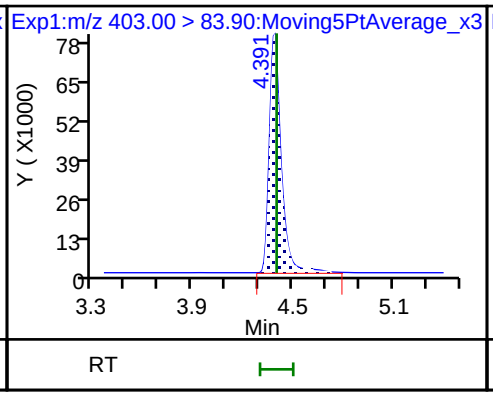
* 30 13C4 PFOA



D 31 13C8 PFOA



* 35 18O2 PFHxS



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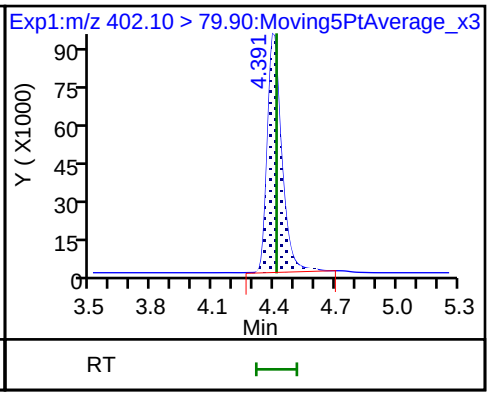

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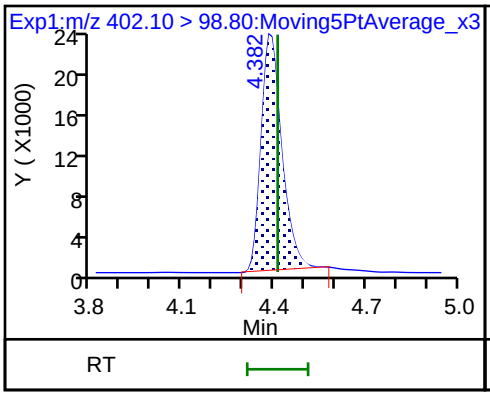

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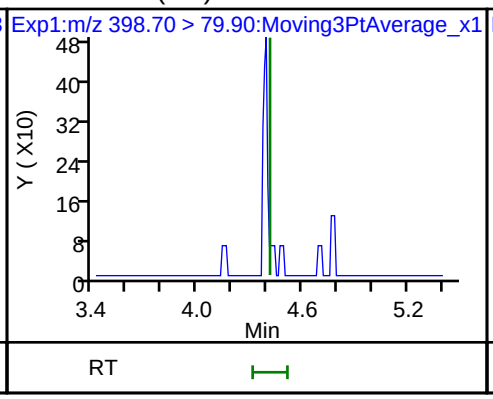
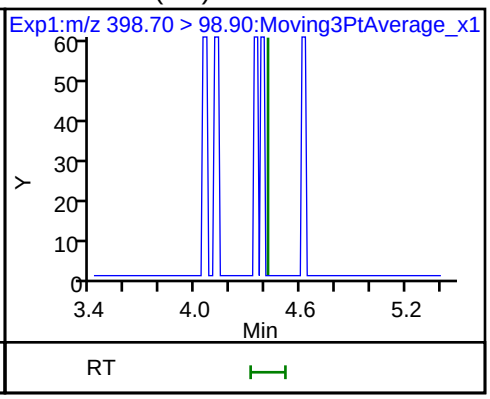
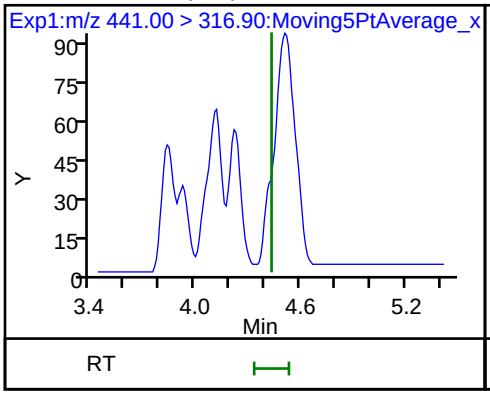


34 PFHxS (ND)



33 7:3 FTCA (ND)



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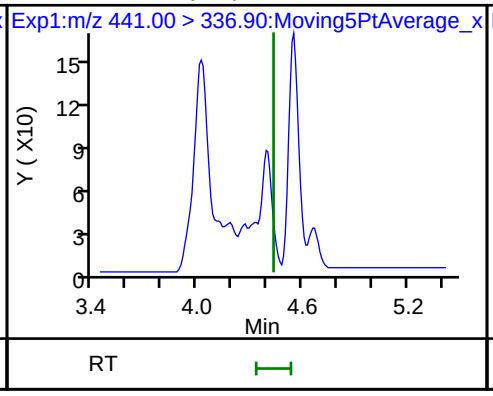
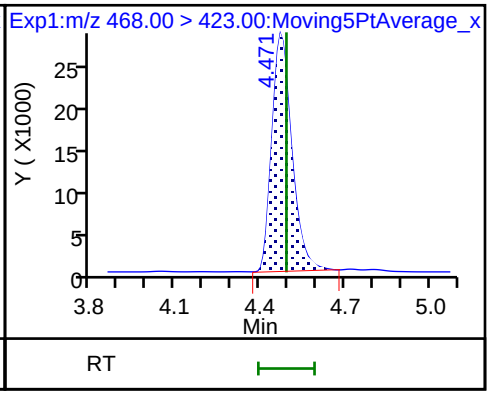


* 37 13C5 PFNA



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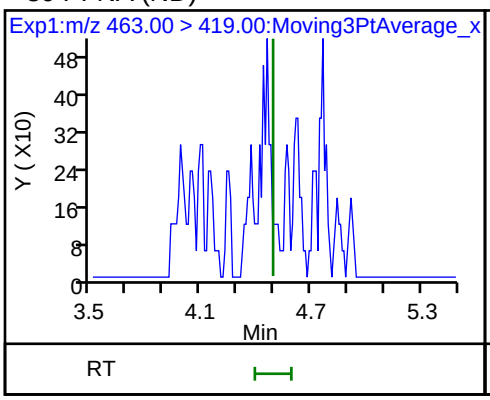

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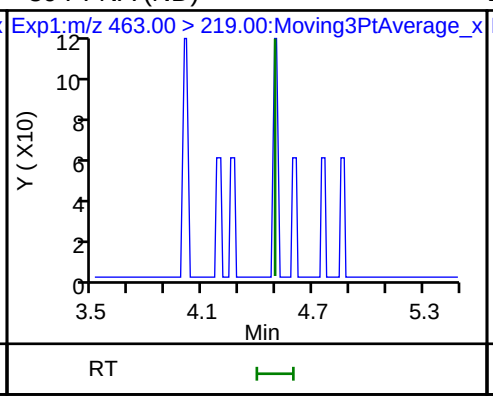
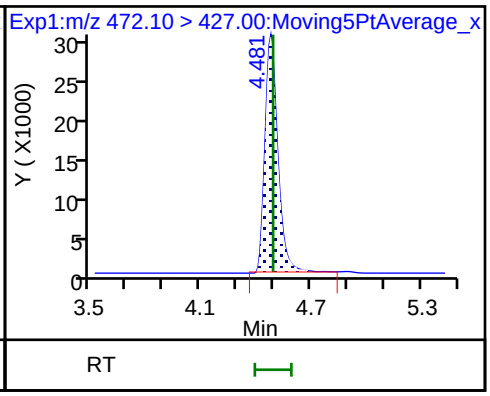
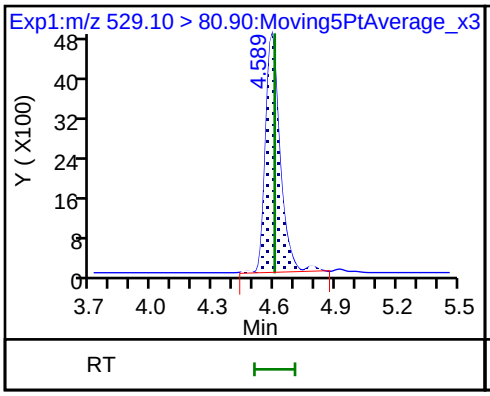


D 38 13C9 PFNA



D 41 13C2-8:2FTS



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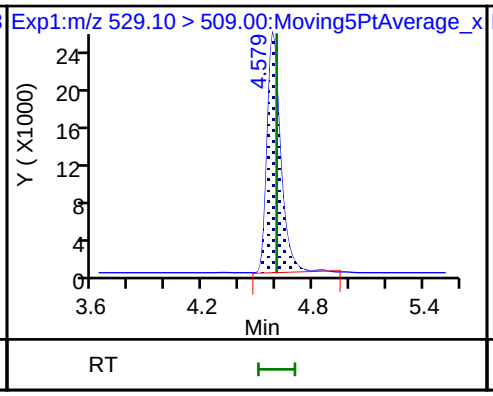

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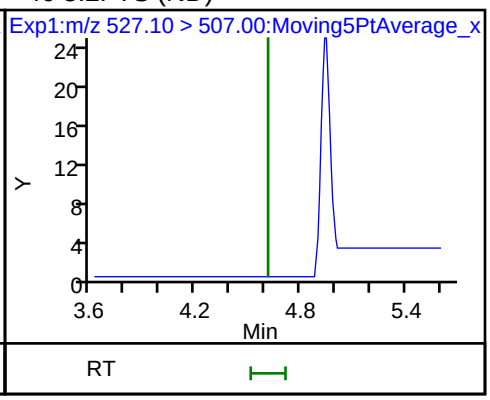

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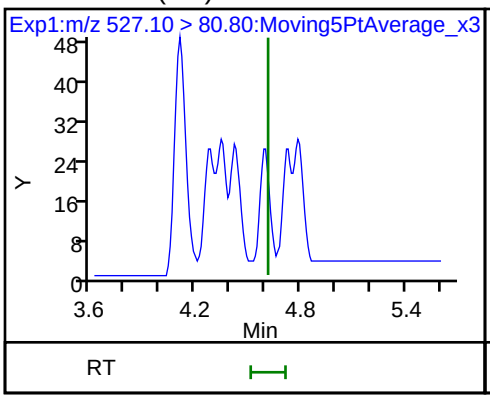

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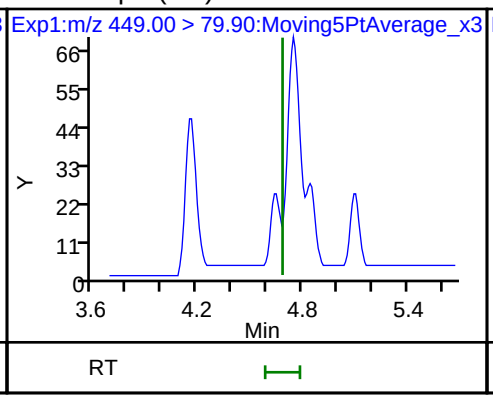

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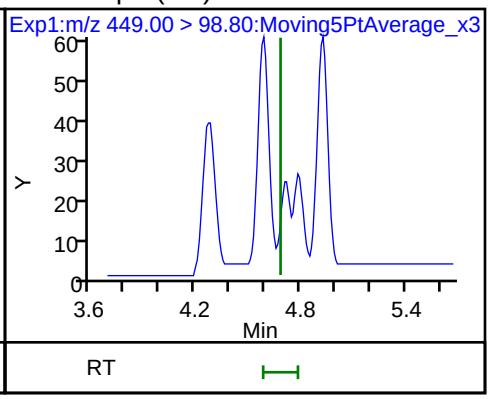
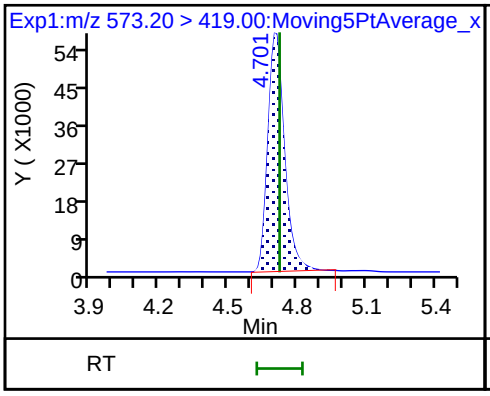


D 44 d3-NMeFOSAA



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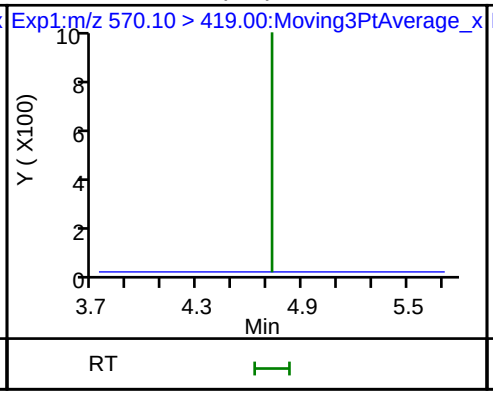

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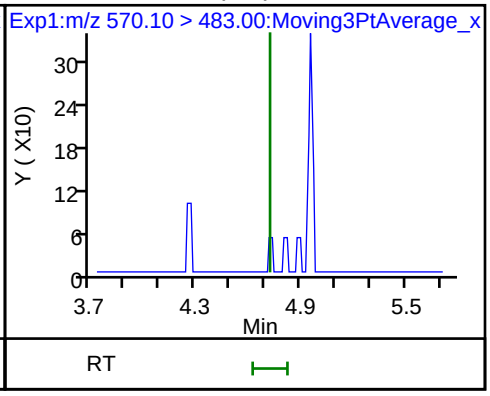
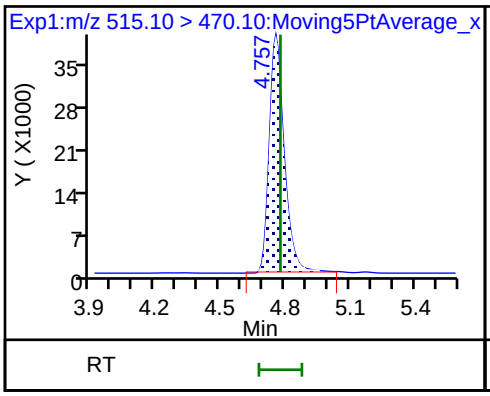
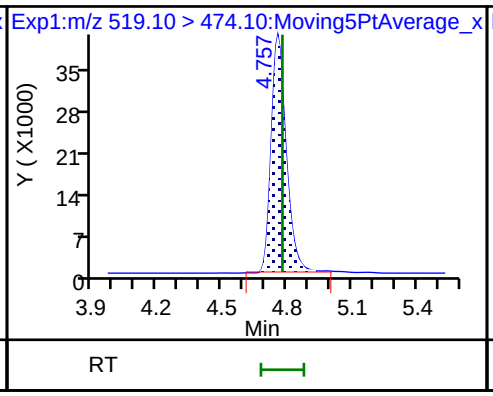


* 46 13C2 PFDA



D 47 13C6 PFDA



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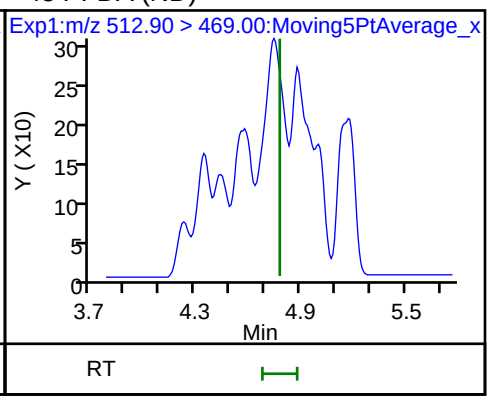

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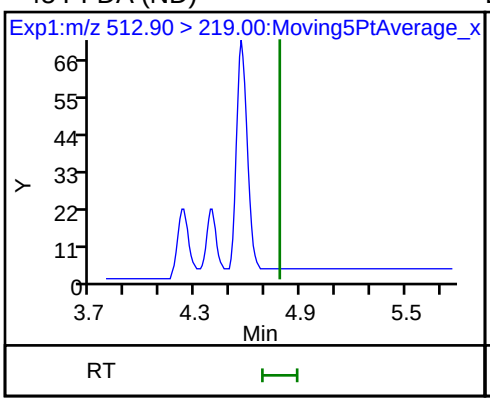
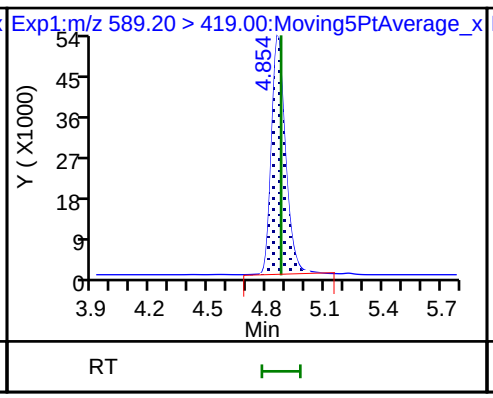


D 49 d5-NEtFOSAA



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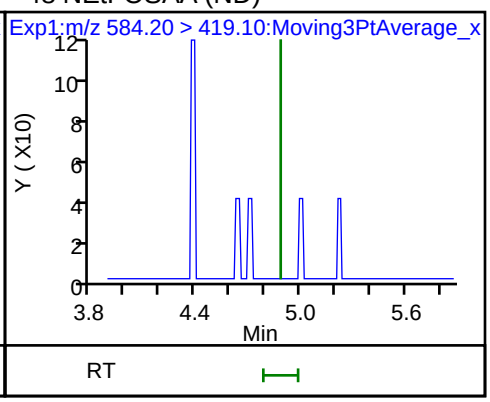

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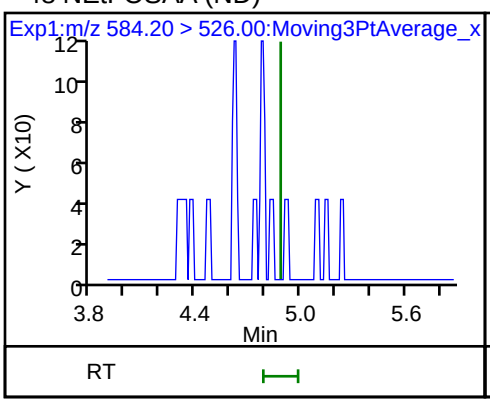
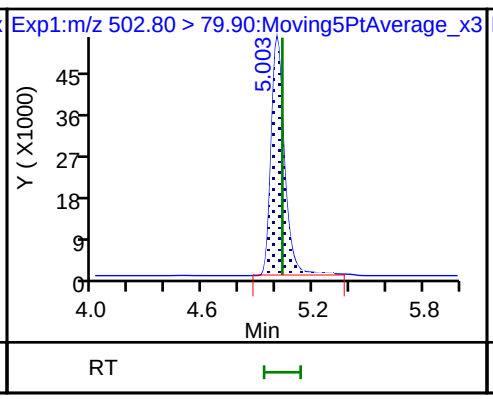


* 52 13C4 PFOS



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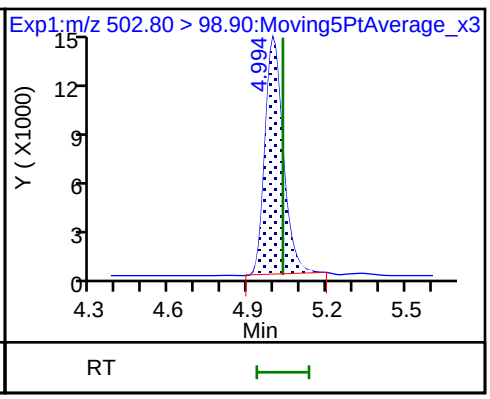

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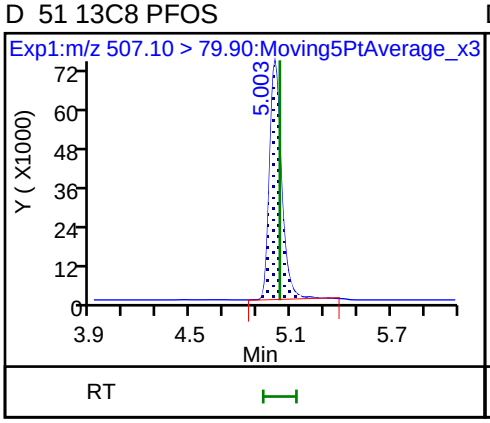

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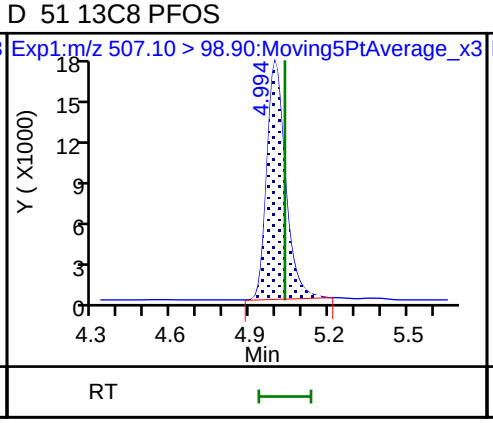

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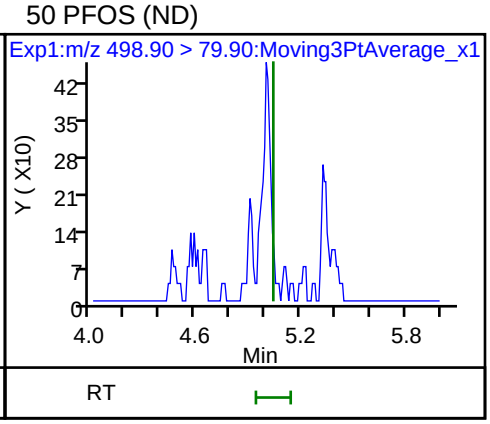

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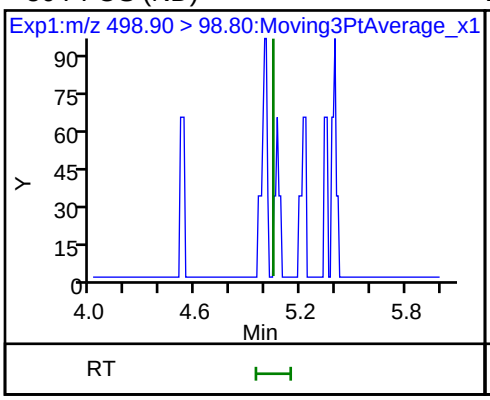

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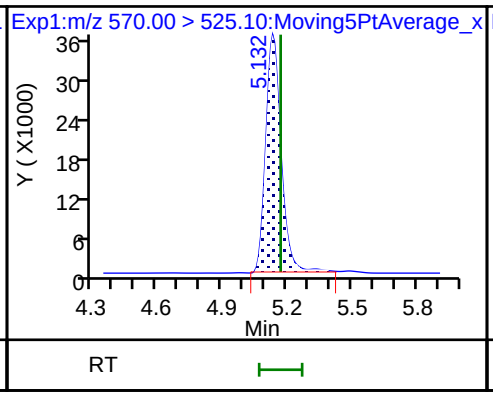

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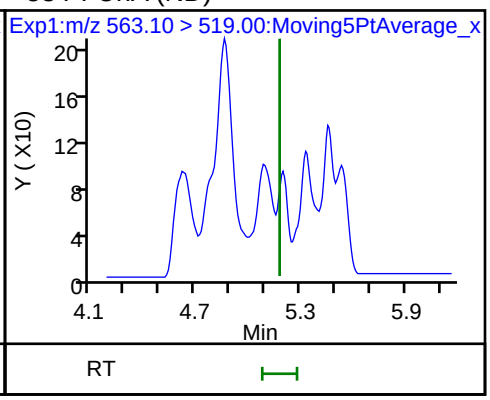

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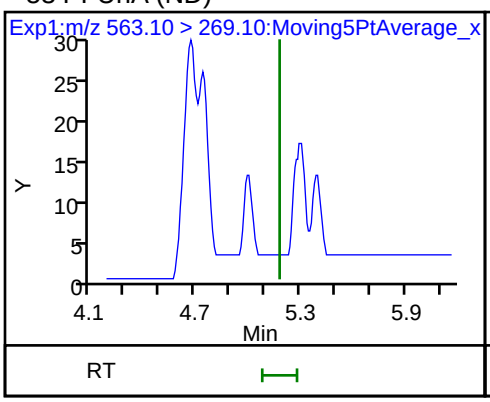
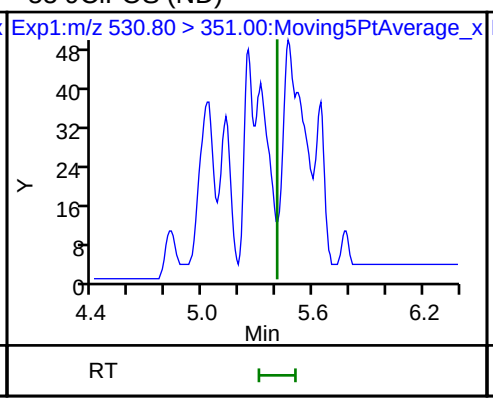


55 9ClFOS (ND)



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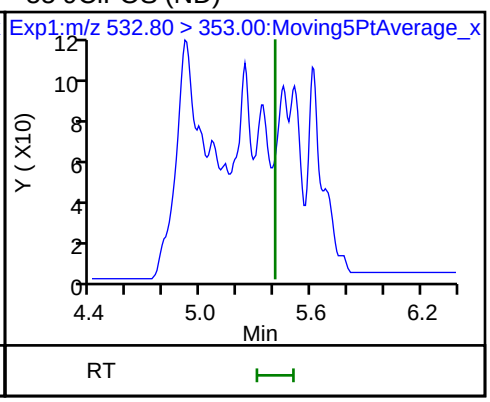

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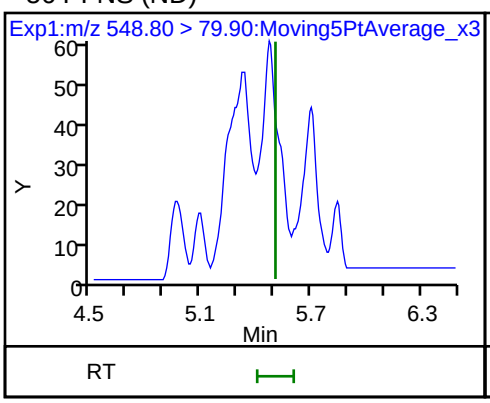

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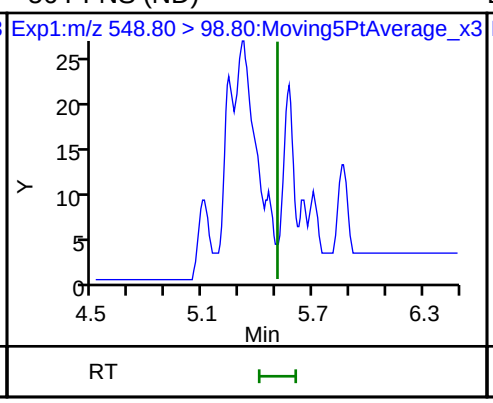
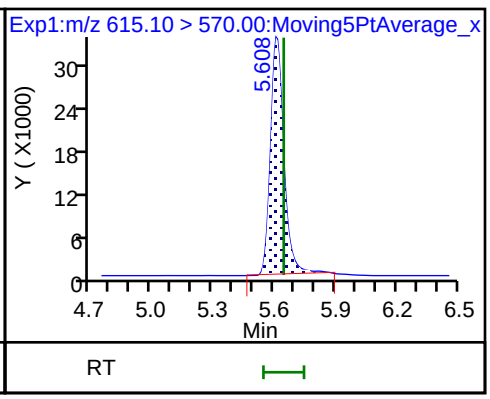


D 58 PFDoDA



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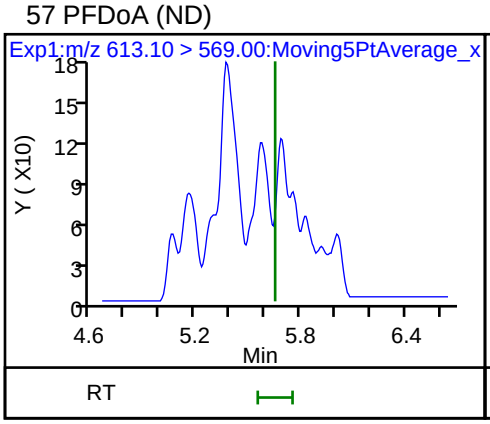

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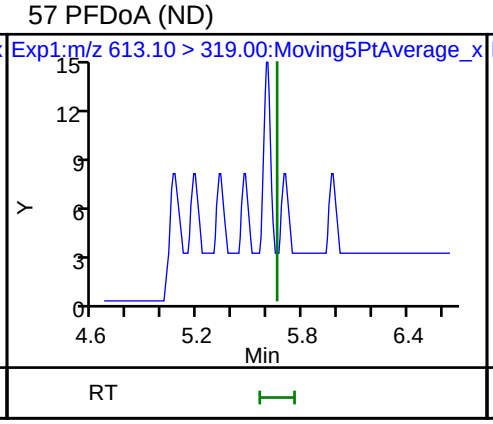

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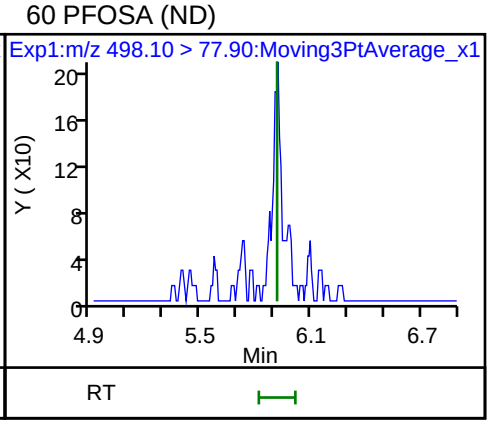

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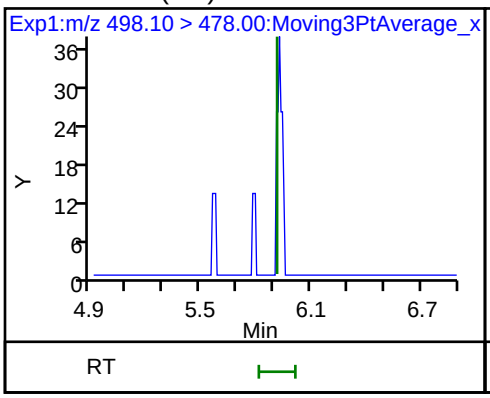
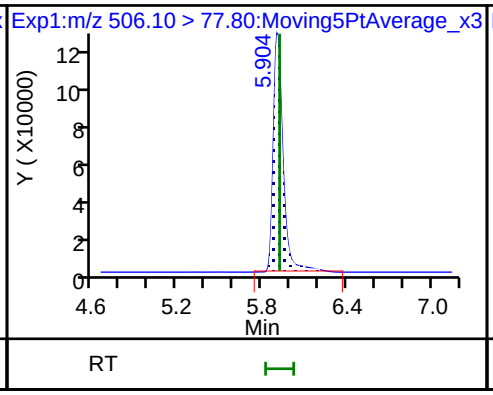


D 59 13C8 FOSA



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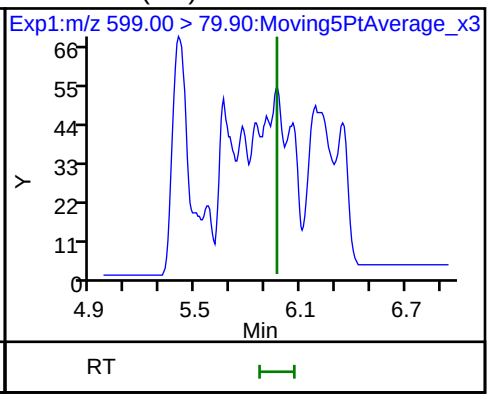

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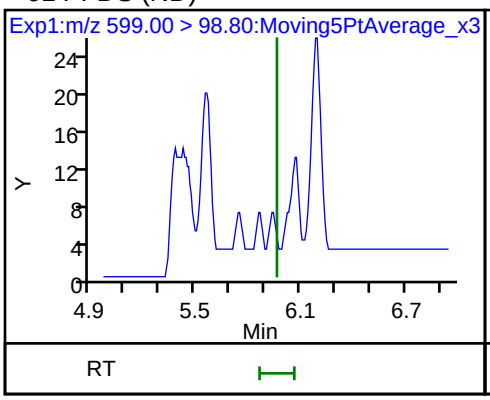

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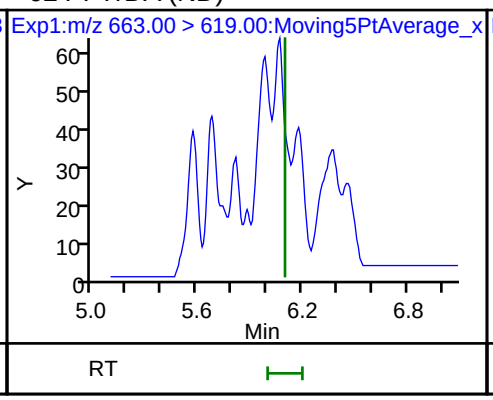

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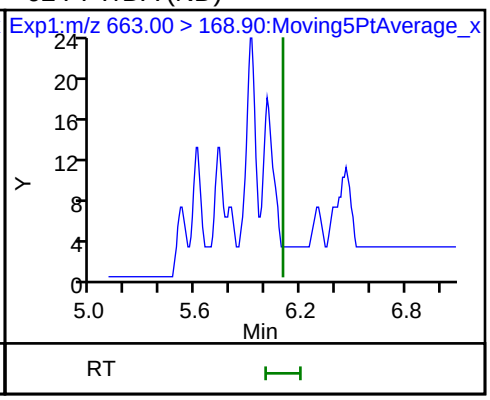
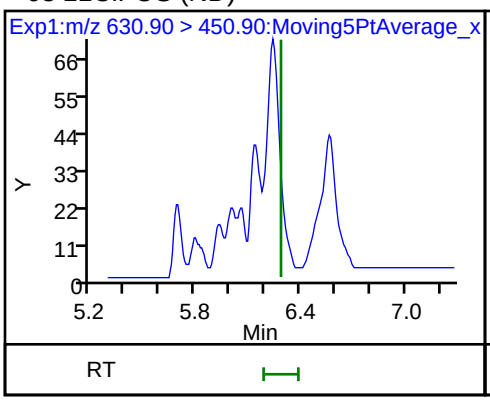


63 11ClFOS (ND)



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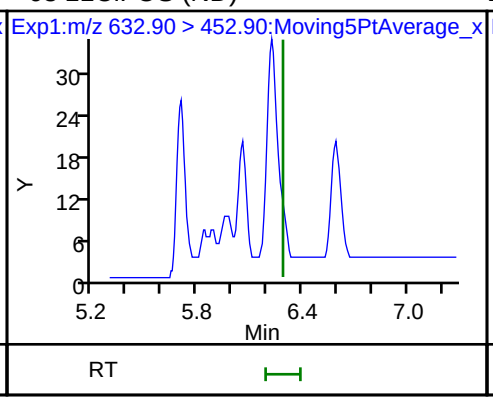
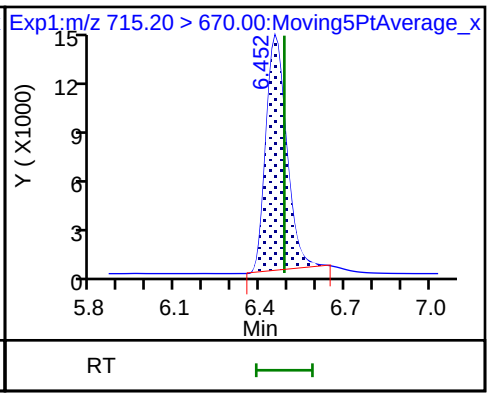


D 65 13C2 PFTeDA



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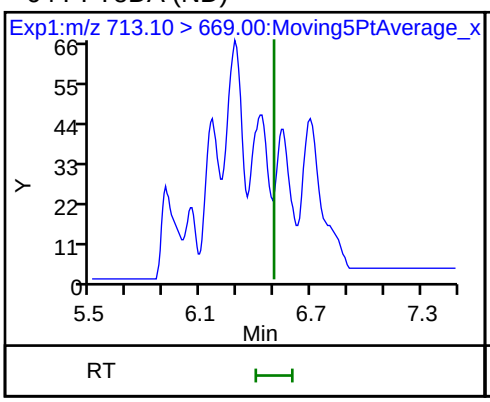

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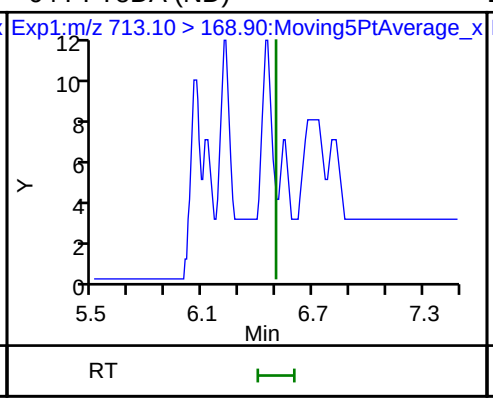
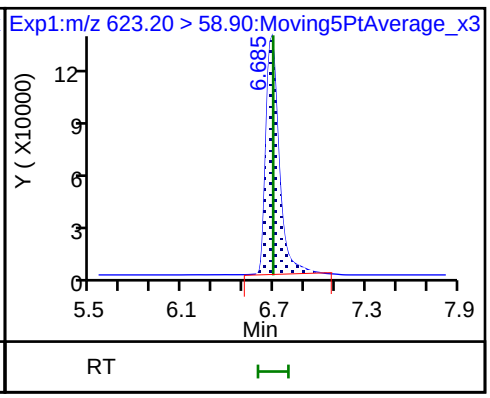
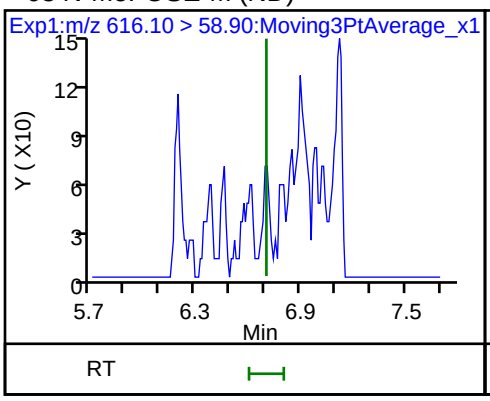


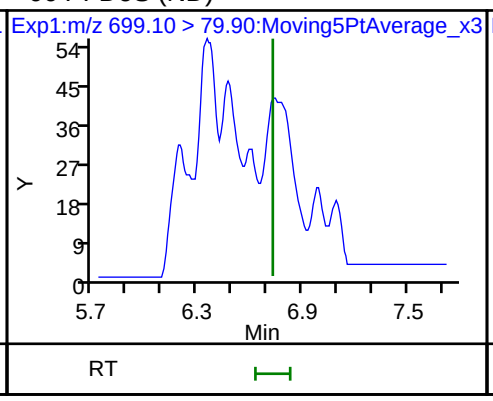
D 67 d7-N-Me-FOSE



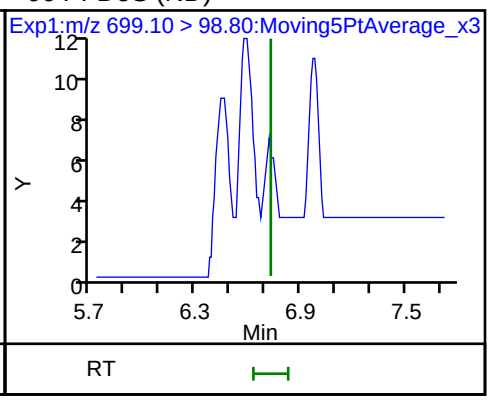
68 N-MeFOSE-M (ND)



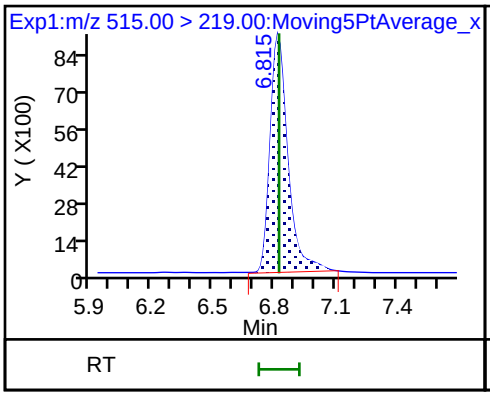
66 PFDoS (ND)



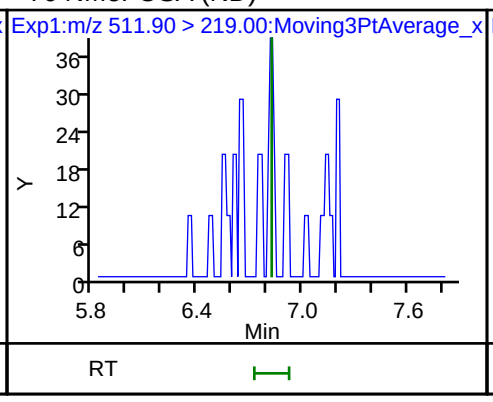
66 PFDoS (ND)



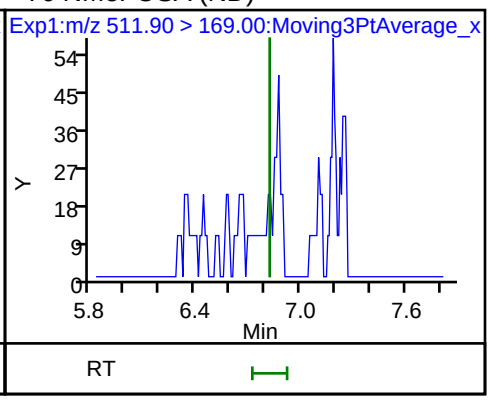
D 69 d3-NMePFOSA



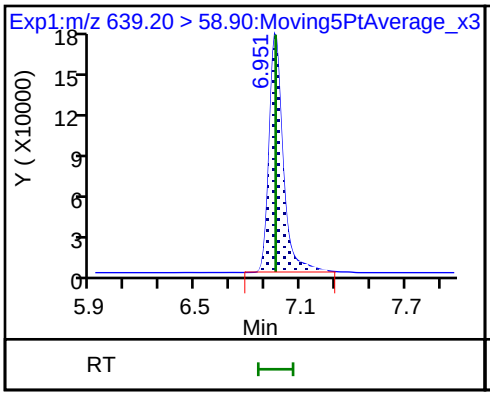
70 NMeFOSA (ND)



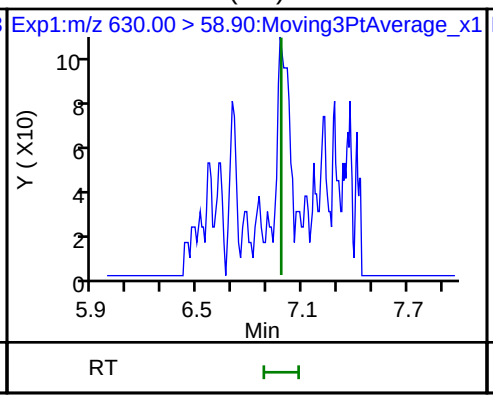
70 NMeFOSA (ND)



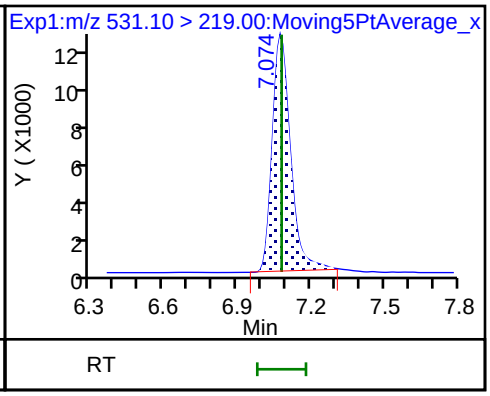
D 71 d9-N-EtFOSE



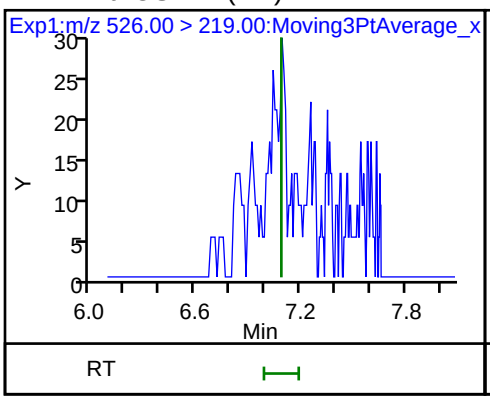
72 N-EtFOSE-M (ND)



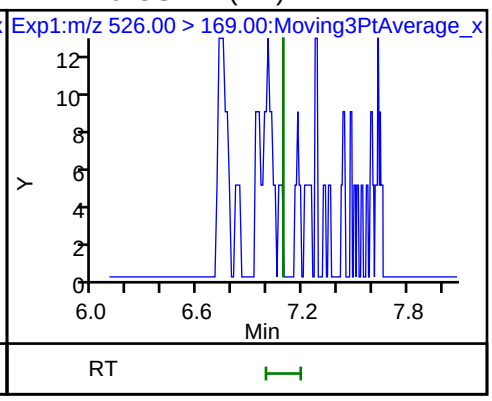
D 73 d5-NEtPFOSA



74 N-EtFOSA-M (ND)



74 N-EtFOSA-M (ND)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

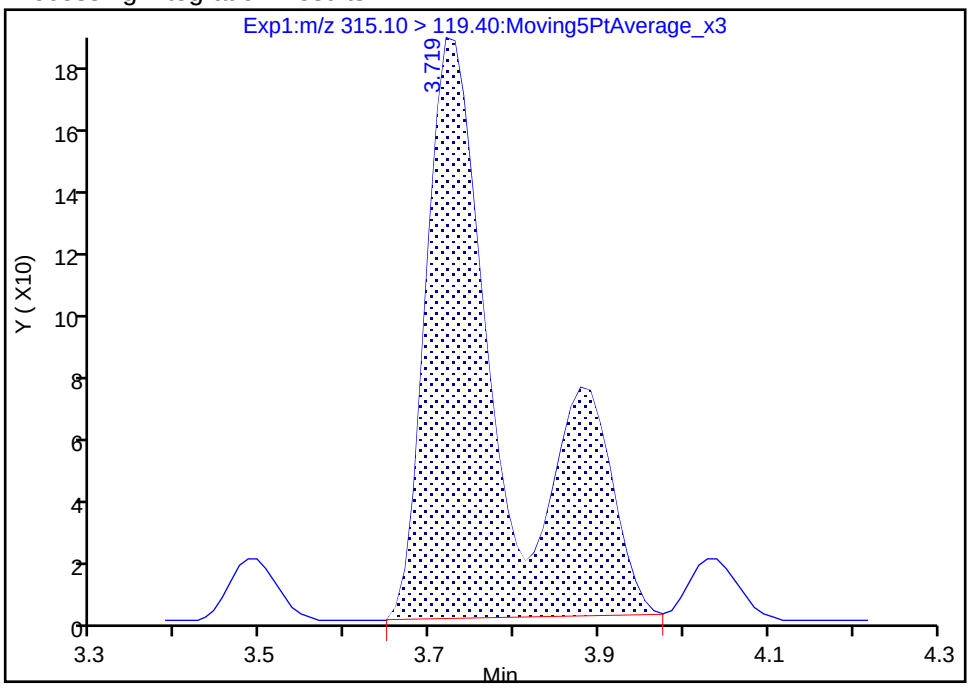
Data File:	\\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-53.d				
Injection Date:	08-Aug-2023 21:52:56	Instrument ID:	30729		
Lims ID:	MB 410-397379/1-A				
Client ID:					
Operator ID:	US19_USR_INS20263	ALS Bottle#:	38	Worklist Smp#:	48
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

* 15 13C2 PFHxA, CAS: STL00993

Signal: 2

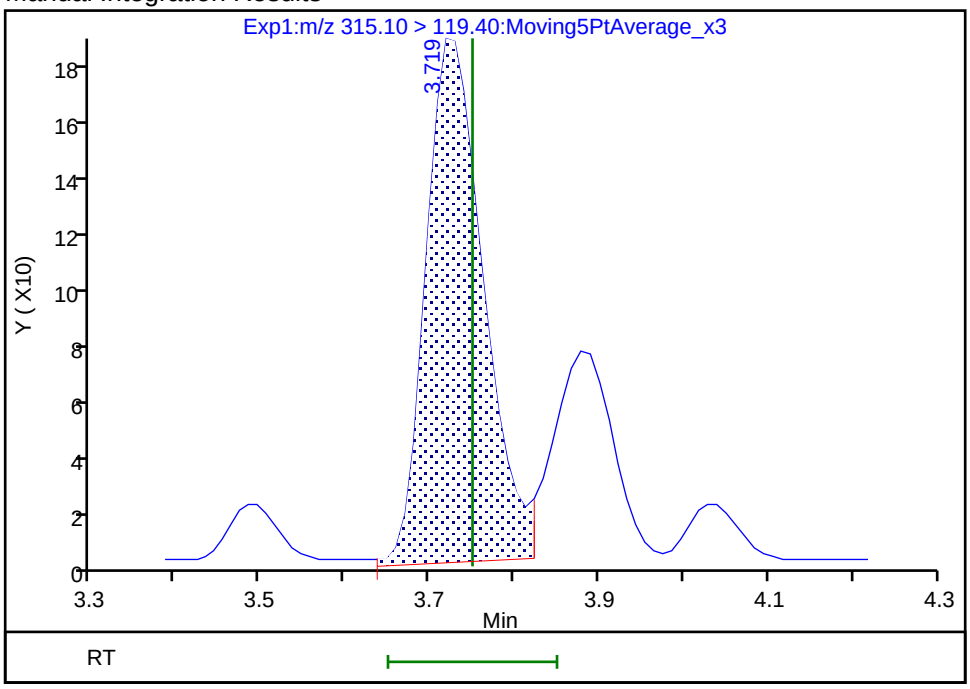
Processing Integration Results

RT: 3.72
Area: 1176
Amount: 2.500000
Amount Units: ng/ml



Manual Integration Results

RT: 3.72
Area: 858
Amount: 2.500000
Amount Units: ng/ml



Reviewer: QY4X, 09-Aug-2023 09:19:01 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 410-405691/36

Matrix: Water Lab File ID: 23AUG08-41.d

Analysis Method: 1633 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 0(mL) Date Analyzed: 08/08/2023 19:15

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.025	U	0.10	0.025
355-46-4	Perfluorohexanesulfonic acid	0.025	U	0.10	0.025
2058-94-8	Perfluoroundecanoic acid	0.025	U	0.10	0.025
335-67-1	Perfluorooctanoic acid	0.025	U	0.10	0.025
335-77-3	Perfluorodecanesulfonic acid	0.025	U	0.10	0.025
376-06-7	Perfluorotetradecanoic acid	0.025	U	0.10	0.025
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.025	U	0.10	0.025
31506-32-8	NMeFOSA	0.025	U	0.10	0.025
812-70-4	7:3 FTCA	0.025	U	0.10	0.025
335-76-2	Perfluorodecanoic acid	0.025	U	0.10	0.025
72629-94-8	Perfluorotridecanoic acid	0.025	U	0.10	0.025
113507-82-7	PFEESA	0.025	U	0.10	0.025
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	0.025	U	0.10	0.025
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	0.025	U	0.10	0.025
375-95-1	Perfluorononanoic acid	0.025	U	0.10	0.025
13252-13-6	HFPO-DA	0.025	U	0.10	0.025
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	0.025	U	0.10	0.025
2706-91-4	Perfluoropentanesulfonic acid	0.025	U	0.10	0.025
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	0.025	U	0.10	0.025
68259-12-1	Perfluorononanesulfonic acid	0.025	U	0.10	0.025
375-85-9	Perfluoroheptanoic acid	0.025	U	0.10	0.025
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.025	U	0.10	0.025
1763-23-1	Perfluorooctanesulfonic acid	0.025	U	0.10	0.025
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	0.025	U	0.10	0.025
377-73-1	Perfluoro-3-methoxypropanoic acid	0.025	U	0.10	0.025
375-22-4	Perfluorobutanoic acid	0.025	U	0.10	0.025
2991-50-6	NEtFOSAA	0.025	U	0.10	0.025

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 410-405691/36

Matrix: Water Lab File ID: 23AUG08-41.d

Analysis Method: 1633 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 0(mL) Date Analyzed: 08/08/2023 19:15

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-55-1	Perfluorododecanoic acid	0.025	U	0.10	0.025
307-24-4	Perfluorohexanoic acid	0.025	U	0.10	0.025
863090-89-5	Perfluoro(4-methoxybutanoic acid)	0.025	U	0.10	0.025
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	0.025	U	0.10	0.025
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.025	U	0.10	0.025
2706-90-3	Perfluoropentanoic acid	0.025	U	0.10	0.025
914637-49-3	5:3 FTCA	0.025	U	0.10	0.025
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	0.025	U	0.10	0.025
754-91-6	Perfluorooctanesulfonamide	0.025	U	0.10	0.025
356-02-5	3:3 FTCA	0.025	U	0.10	0.025
2355-31-9	NMeFOSAA	0.025	U	0.10	0.025
375-73-5	Perfluorobutanesulfonic acid	0.025	U	0.10	0.025
375-92-8	Perfluoroheptanesulfonic acid	0.025	U	0.10	0.025

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 410-405691/36

Matrix: Water Lab File ID: 23AUG08-41.d

Analysis Method: 1633 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 0(mL) Date Analyzed: 08/08/2023 19:15

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691 Units: ng/mL

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	104		10-130
STL01893	13C5 PFPeA	110		35-150
STL02577	13C5 PFHxA	113		55-150
STL01892	13C4 PFHpA	103		55-150
STL01052	13C8 PFOA	104		60-140
STL02578	13C9 PFNA	101		55-140
STL02579	13C6 PFDA	96.2		50-140
STL02580	13C7 PFUnA	98.9		30-140
STL02703	13C2-PFDoDA	96.4		10-150
STL02116	13C2 PFTeDA	99.1		10-130
STL02337	13C3 PFBS	108		55-150
STL02581	13C3 PFHxS	101		55-150
STL01054	13C8 PFOS	103		45-140
STL01056	13C8 FOSA	102		30-130
STL02118	d3-NMeFOSAA	101		45-200
STL02117	d5-NEtFOSAA	98.5		10-200
STL02395	M2-4:2 FTS	92.8		60-200
STL02279	M2-6:2 FTS	112	I	60-200
STL02280	M2-8:2 FTS	102		50-200
STL02255	13C3 HFPO-DA	106		25-160
STL02277	d7-N-MeFOSE-M	96.9		10-150
STL02278	d9-N-EtFOSE-M	93.8		10-150
STL02704	d5-NEtPFOSA	94.5		10-130
STL02705	d3-NMePFOSA	89.9		15-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-41.d
Lims ID: CCB
Client ID:
Sample Type: CCB
Inject. Date: 08-Aug-2023 19:15:54 ALS Bottle#: 20001 Worklist Smp#: 36
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCB
Misc. Info.: Plate: 1 Rack: 1 410-0090889-036
Operator ID: US19_USR_INS20263 Instrument ID: 30729

Method: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\PFAS_30729_1633.m
Limit Group: LC - 1633 ICAL
Last Update: 09-Aug-2023 09:53:37 Calib Date: 05-Aug-2023 11:25:28
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-11.d

Column 1 : Det: EXP1
Process Host: CTX1649

First Level Reviewer: QY4X Date: 09-Aug-2023 07:16:36
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4-PFBA										
216.80 > 171.90	2.932	2.932	0.0	1.000	1434546	10.4		104	84996	
* 3 13C3PFBA										
216.00 > 172.00	2.932	2.932	0.0		849049	5.00			1692	
D 7 13C5 PFPeA										
268.30 > 223.00	3.444	3.444	0.0	0.918	427749	5.52		110	26434	
D 10 13C2-4:2FTS										
329.10 > 80.90	3.627	3.638	-0.011	0.826	64903	4.35	Target=0.35	92.8	3003	
329.10 > 309.00	3.627	3.638	-0.011	0.826	177662		0.37(0.18-0.53)	92.8	10579	
D 14 13C5 PFHxA										
318.00 > 273.00	3.750	3.750	0.0	1.000	53284	2.83	Target=15.34	113	3523	
318.00 > 120.30	3.729	3.750	-0.021	0.994	2771		19.23(7.67-23.01)	113	184	
* 15 13C2 PFHxA										
315.10 > 270.00	3.750	3.750	0.0		269404	2.50	Target=103.53		17466	
315.10 > 119.40	3.740	3.750	-0.010		2776		97.05(51.76-155.29)		177	
D 18 13C3 PFBS										
302.10 > 79.90	3.845	3.856	-0.011	0.875	529477	2.51	Target=6.99	108	32627	
302.10 > 98.90	3.845	3.856	-0.011	0.875	77523		6.83(3.50-10.49)	108	4842	
D 20 13C3 HFPO-DA										
286.90 > 168.90	3.867	3.867	0.0	1.031	1261972	10.6	Target=29.00	106	76018	
286.90 > 184.90	3.856	3.867	-0.011	1.028	39260		32.14(14.50-43.50)	106	2400	
22 TUDCA										
498.20 > 80.00	4.040	3.944	0.096	0.807	355	0.001879			90.0	
D 25 13C4 PFHpA										
367.10 > 322.00	4.008	4.018	-0.010	1.069	581006	2.57		103	36233	
D 29 13C2-6:2FTS										R
429.10 > 80.90	4.118	4.129	-0.011	0.938	41038	5.33	Target=0.12	112	2437	R
429.10 > 409.00	4.107	4.129	-0.022	0.935	178874		0.23(0.06-0.18)	112	10519	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 30 13C4 PFOA										
417.10 > 172.00	4.250	4.261	-0.011		25297	2.50			1569	
D 31 13C8 PFOA										
421.10 > 376.00	4.250	4.261	-0.011	1.000	623070	2.59		104	38378	
* 35 18O2 PFHxS										
403.00 > 83.90	4.392	4.401	-0.009		481389	2.37			32159	
D 36 13C3 PFHxS										
402.10 > 79.90	4.401	4.411	-0.010	1.002	545693	2.38	Target=3.90	101	36132	
402.10 > 98.80	4.392	4.411	-0.019	1.000	135317		4.03(1.95-5.85)	101	9438	
D 38 13C9 PFNA										
472.10 > 427.00	4.483	4.493	-0.010	1.002	155970	1.27		101	7870	
* 37 13C5 PFNA										
468.00 > 423.00	4.473	4.493	-0.020		145925	1.25			9513	
D 41 13C2-8:2FTS										
529.10 > 80.90	4.592	4.601	-0.009	1.046	20105	4.89	Target=0.14	102	1349	
529.10 > 509.00	4.582	4.601	-0.019	1.043	135284		0.15(0.07-0.21)	102	8970	
D 44 d3-NMeFOSAA										
573.20 > 419.00	4.713	4.723	-0.010	0.942	323300	5.05		101	20916	
* 46 13C2 PFDA										
515.10 > 470.10	4.759	4.778	-0.019		211381	1.25			14617	
D 47 13C6 PFDA										
519.10 > 474.10	4.759	4.778	-0.019	1.000	204979	1.20		96.2	10709	
D 49 d5-NEtFOSAA										
589.20 > 419.00	4.856	4.874	-0.018	0.970	293543	4.93		98.5	19070	
* 52 13C4 PFOS										
502.80 > 79.90	5.005	5.033	-0.028		308437	2.40	Target=4.18		12701	
502.80 > 98.90	5.005	5.033	-0.028		73369		4.20(2.09-6.27)		5005	
D 51 13C8 PFOS										
507.10 > 79.90	5.005	5.033	-0.028	1.000	452438	2.47	Target=3.96	103	18422	
507.10 > 98.90	5.005	5.033	-0.028	1.000	95036		4.76(1.98-5.94)	103	6416	
D 54 13C7 PFUnA										
570.00 > 525.10	5.136	5.170	-0.034	1.079	193876	1.24		98.9	9828	
D 58 PFDoDA										
615.10 > 570.00	5.618	5.646	-0.028	1.180	167728	1.21		96.4	12034	
D 59 13C8 FOSA										
506.10 > 77.80	5.915	5.923	-0.008	1.182	682211	2.54		102	46472	
D 65 13C2 PFTeDA										
715.20 > 670.00	6.456	6.485	-0.029	1.356	97072	1.24		99.1	6396	
D 67 d7-N-Me-FOSE										
623.20 > 58.90	6.679	6.692	-0.013	1.334	1071016	24.2		96.9	43298	
D 69 d3-NMePFOSA										
515.00 > 219.00	6.823	6.823	0.0	1.363	118500	2.25		89.9	6592	
D 71 d9-N-EtFOSE										
639.20 > 58.90	6.957	6.957	0.0	1.390	1273508	23.5		93.8	38723	
D 73 d5-NEtPFOSA										
531.10 > 219.00	7.080	7.080	0.0	1.414	133530	2.36		94.5	8392	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Reagents:

PFC_ST_02171	Amount Added:	5.00	Units: uL	
PFC_ST_02214	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 09-Aug-2023 09:54:01 Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-41.d

Injection Date: 08-Aug-2023 19:15:54 Instrument ID: 30729

Lims ID: CCB

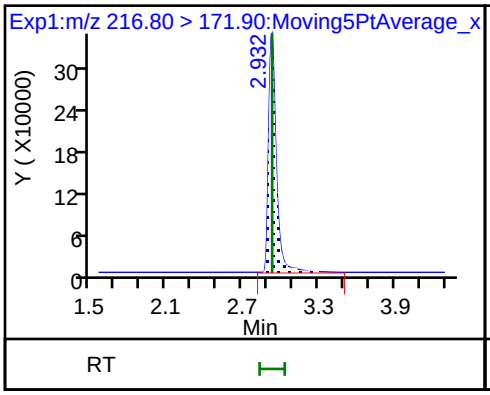
Client ID:

Operator ID: US19_USR_INS20263 ALS Bottle#: 20001 Worklist Smp#: 36

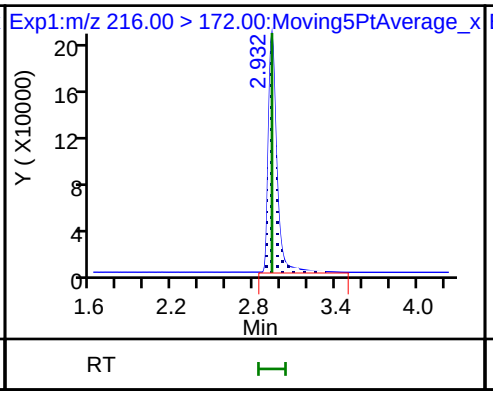
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: PFAS_30729_1633 Limit Group: LC - 1633 ICAL

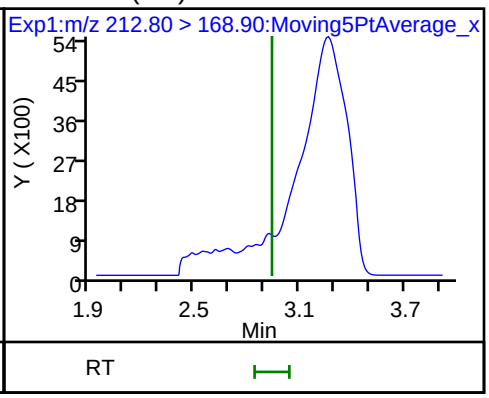
D 2 13C4-PFBA



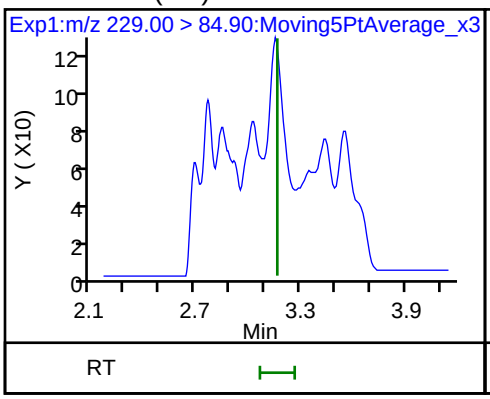
* 3 13C3PFBA



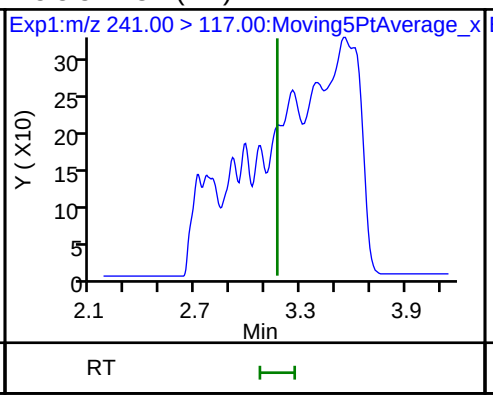
1 PFBA (ND)



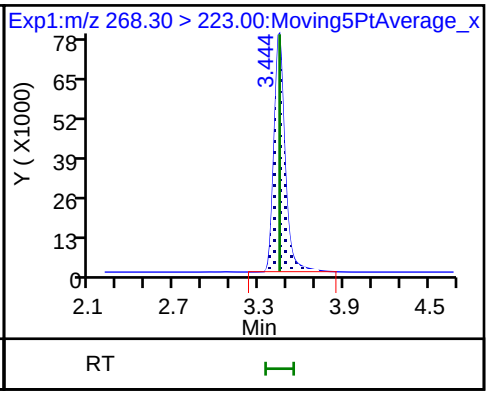
4 PFMPA (ND)



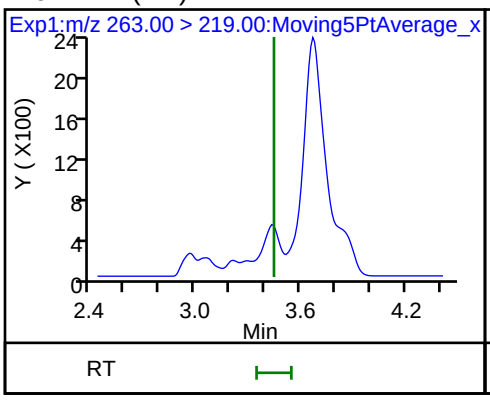
5 3:3 FTCA (ND)



D 7 13C5 PFPeA



6 PFPA (ND)



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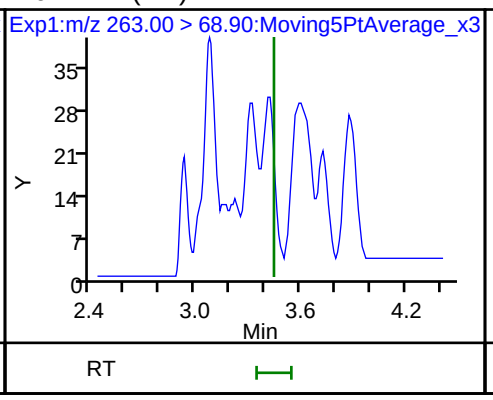

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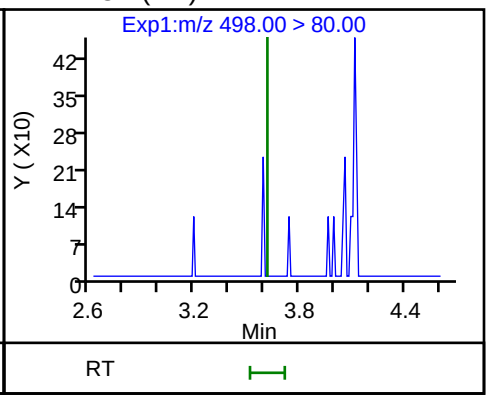

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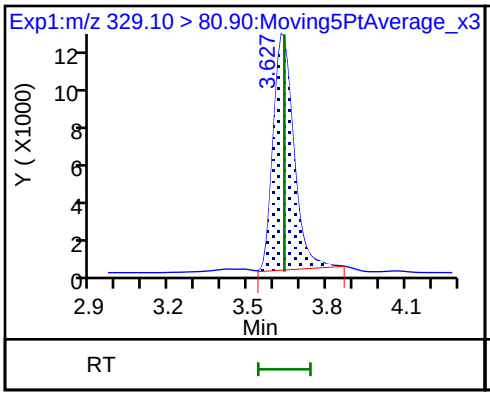

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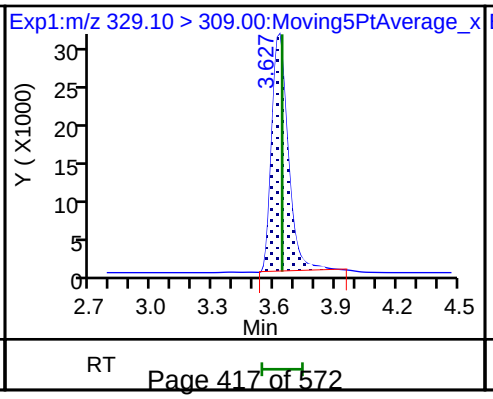

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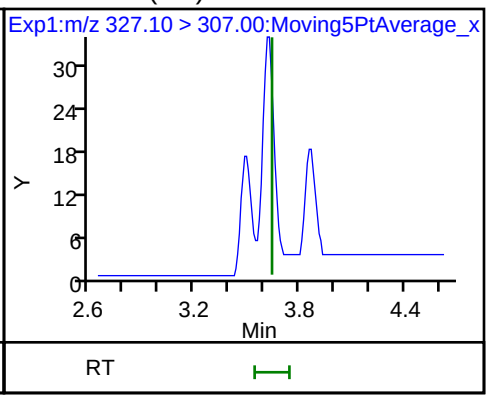

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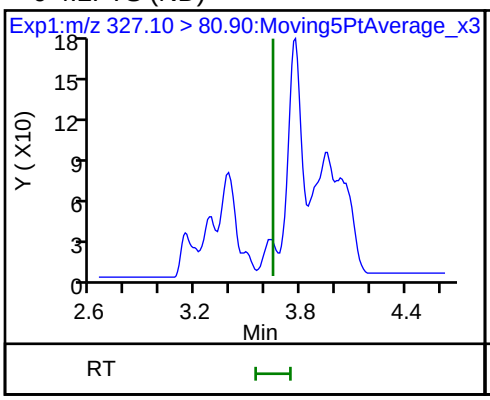

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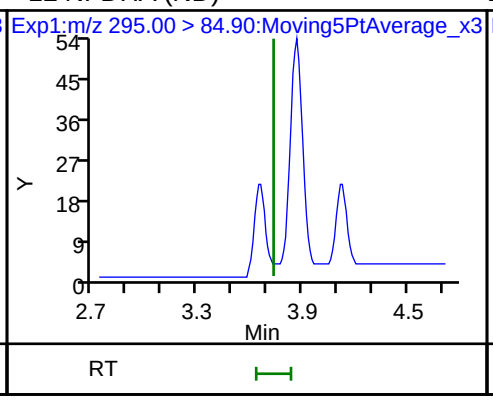
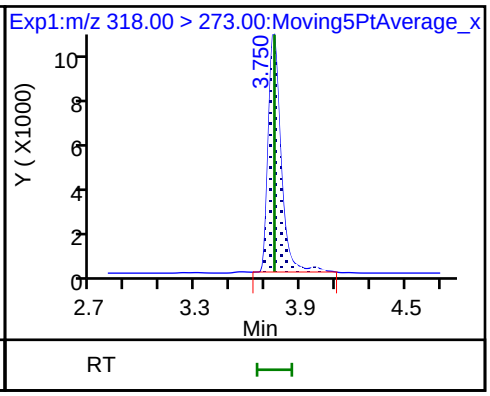


D 14 13C5 PFHxA



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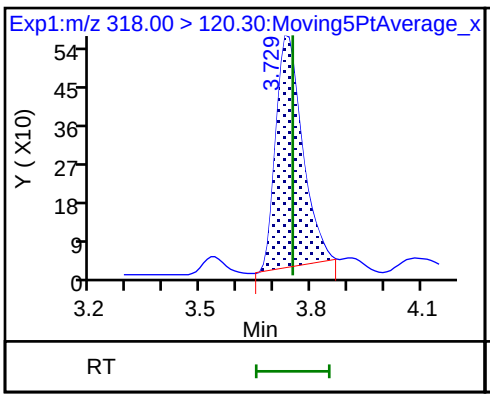

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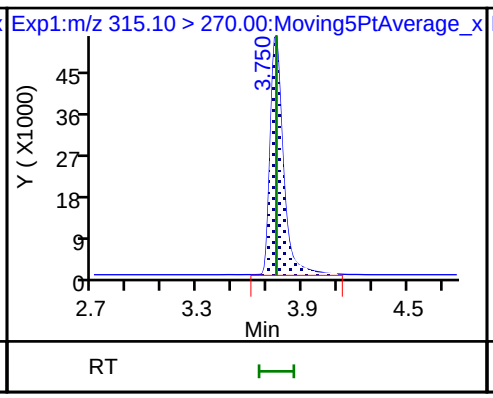

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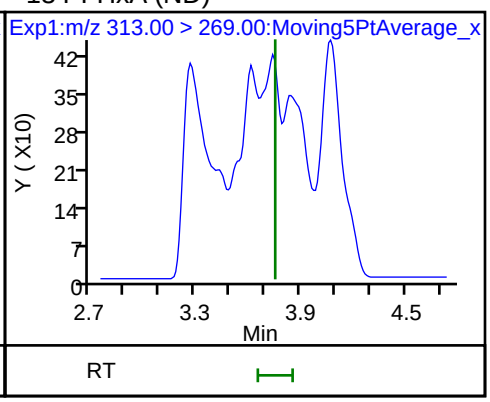

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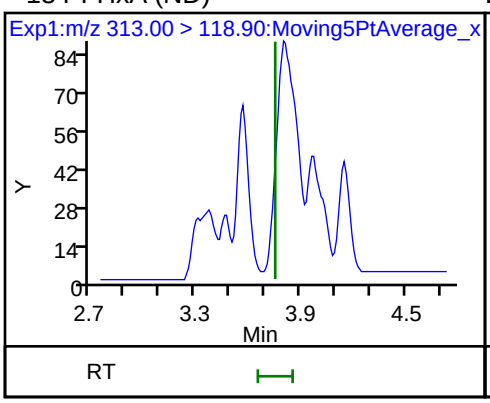

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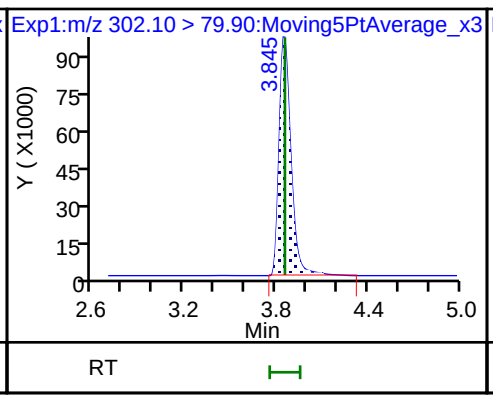

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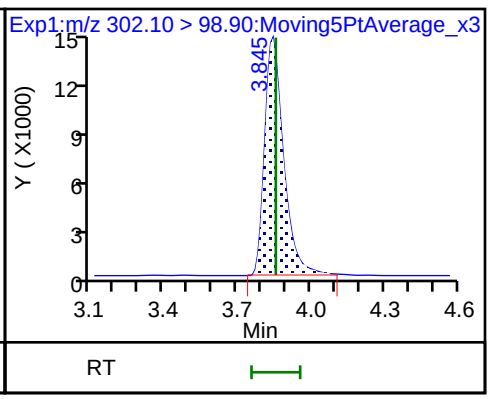

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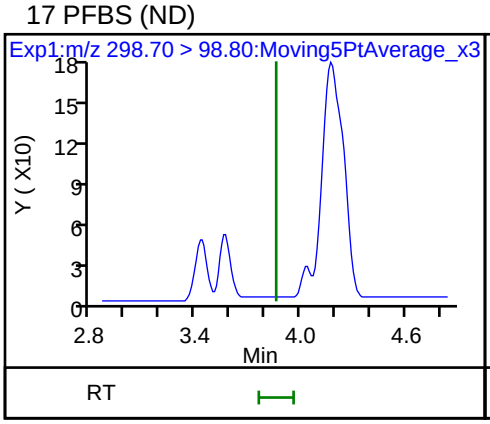
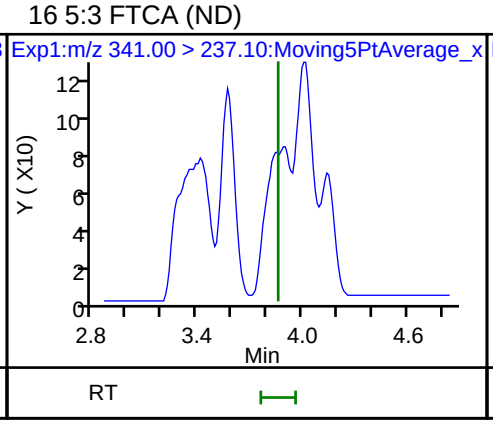


16 5:3 FTCA (ND)



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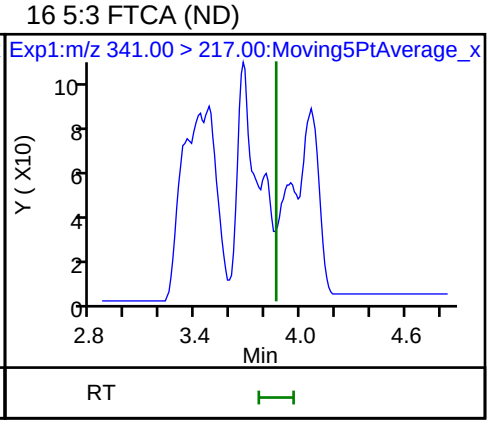

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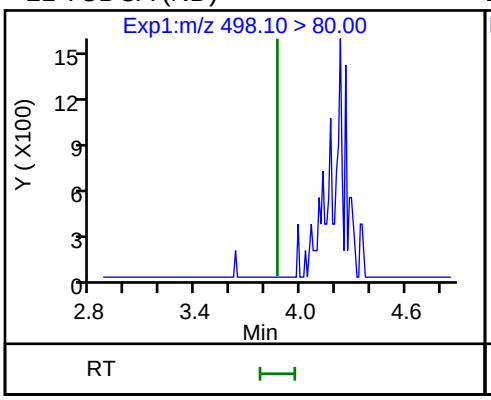

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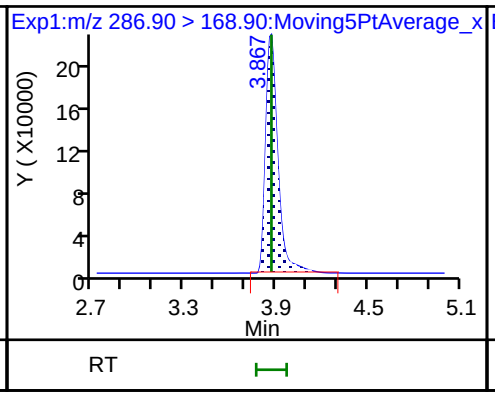

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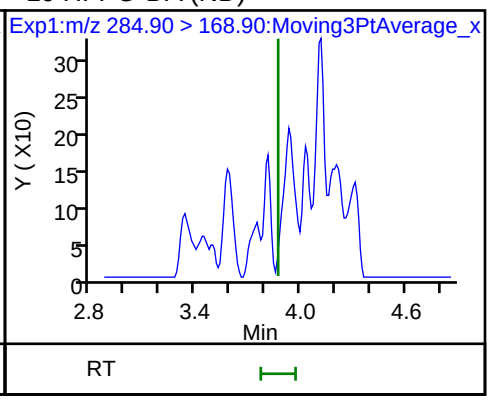

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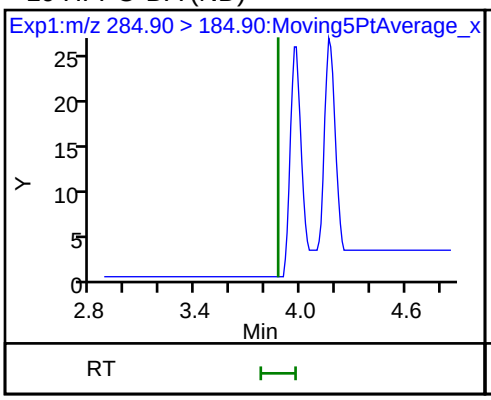
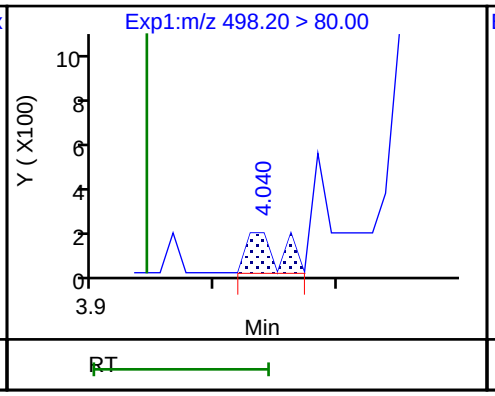


22 TUDCA



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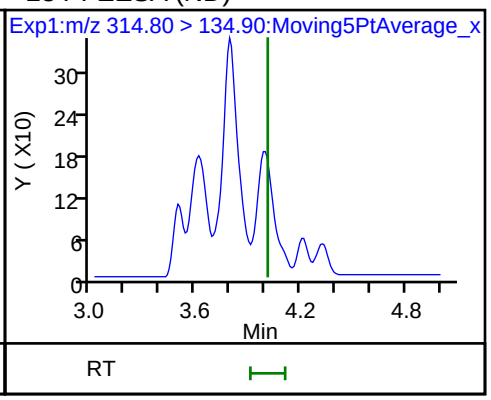

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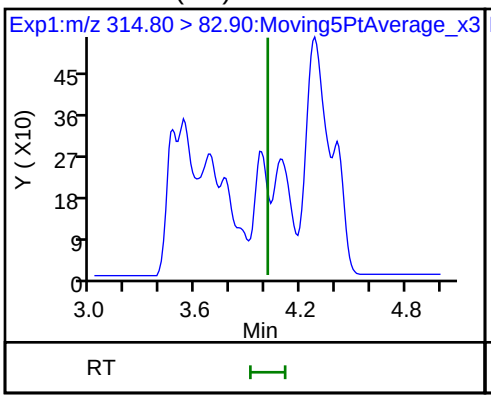
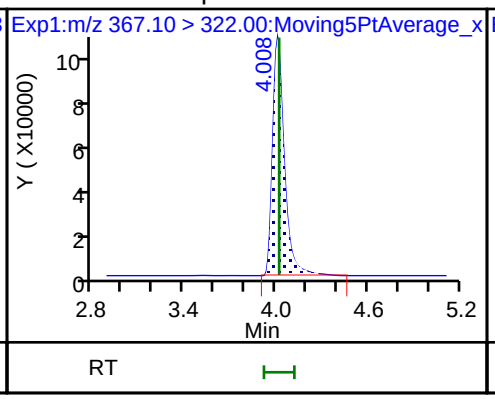


D 25 13C4 PFHpA



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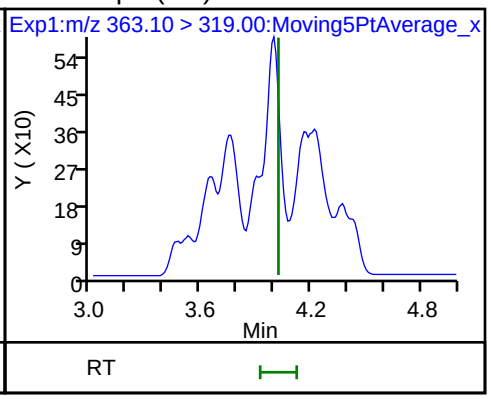

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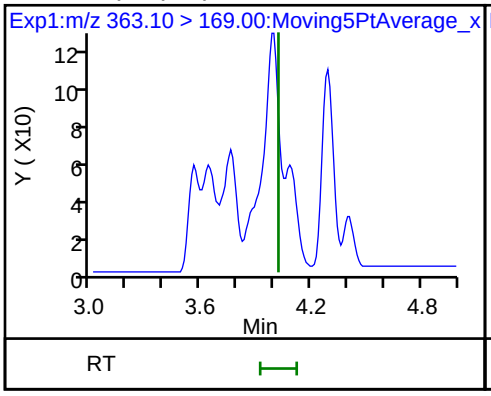

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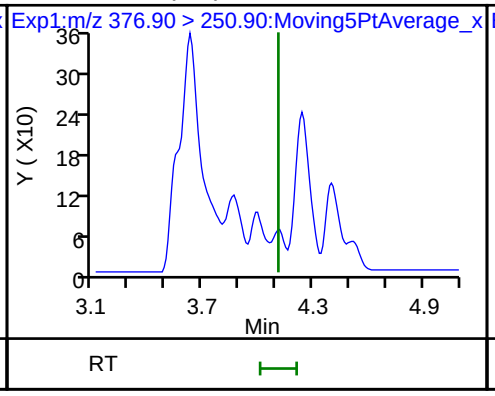

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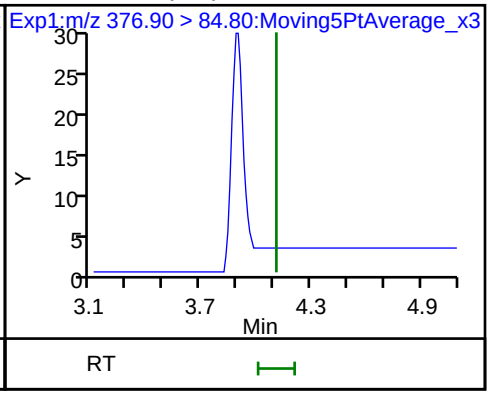

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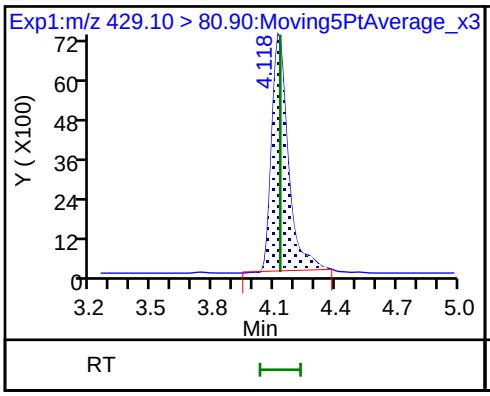

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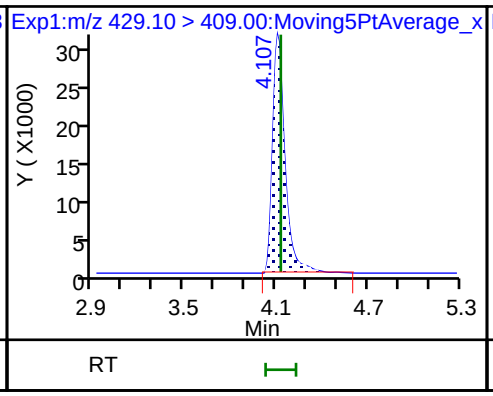

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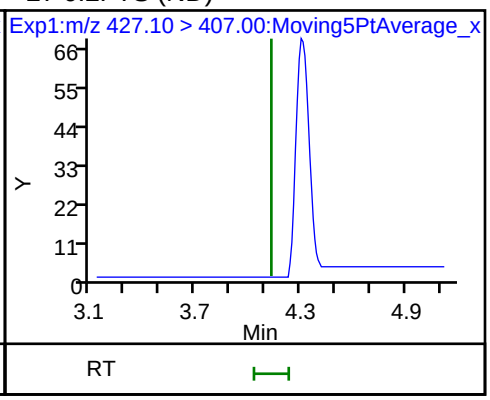

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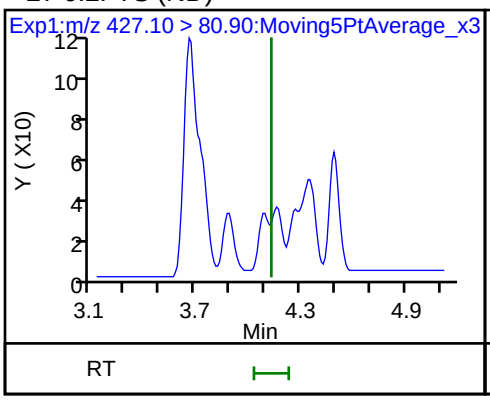

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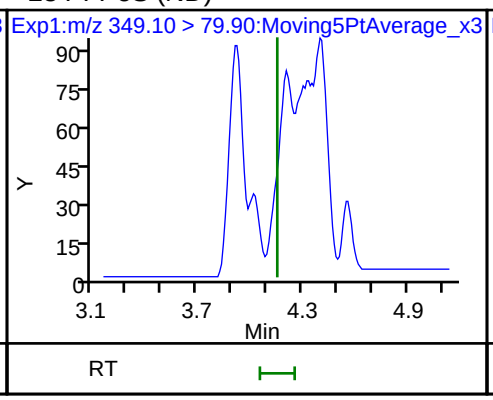

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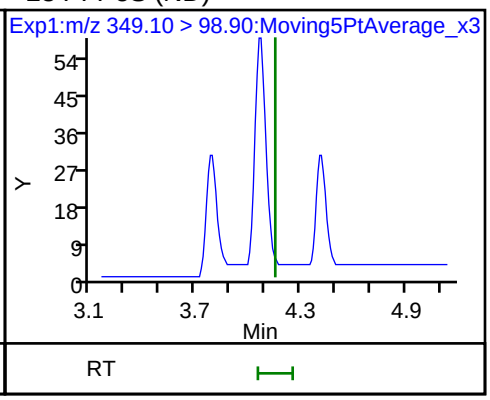

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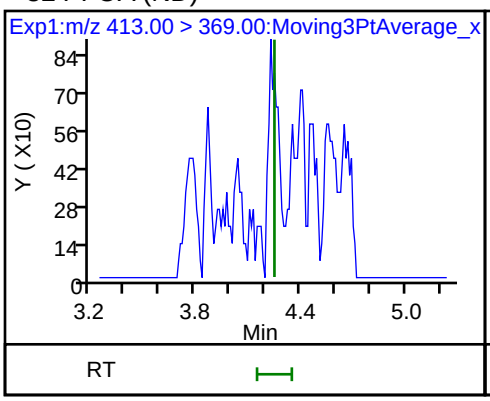

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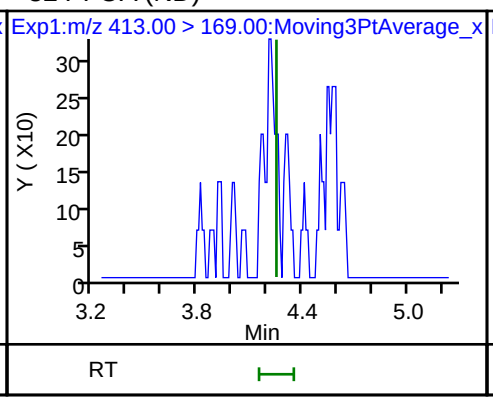

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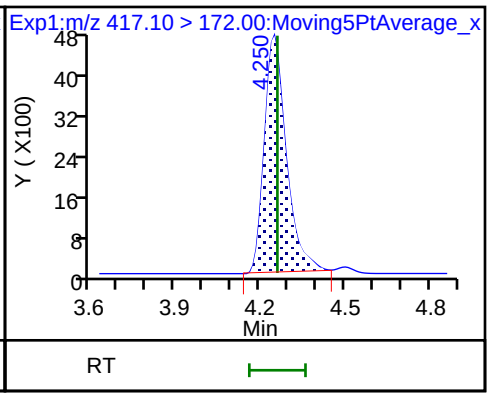

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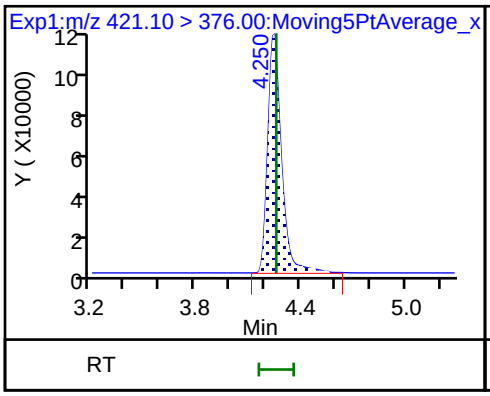
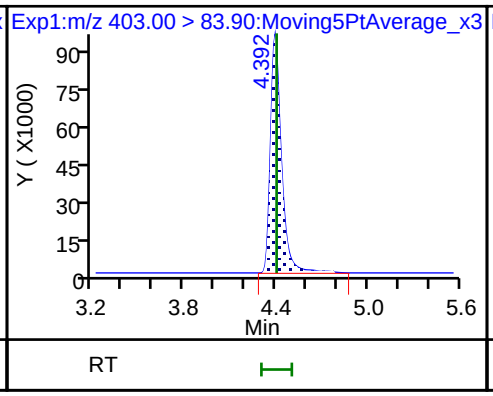


* 35 18O2 PFHxS



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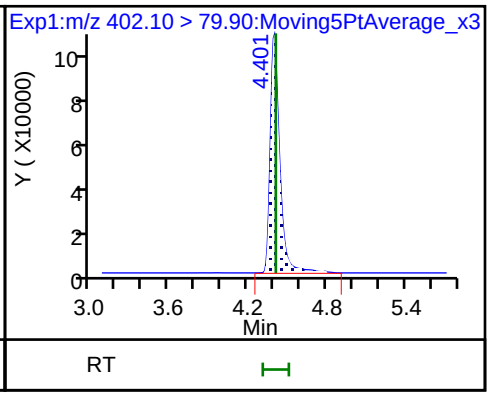

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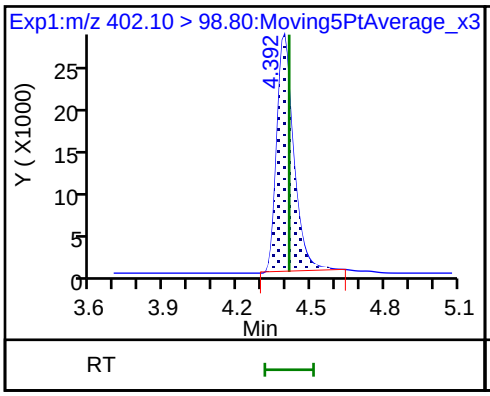

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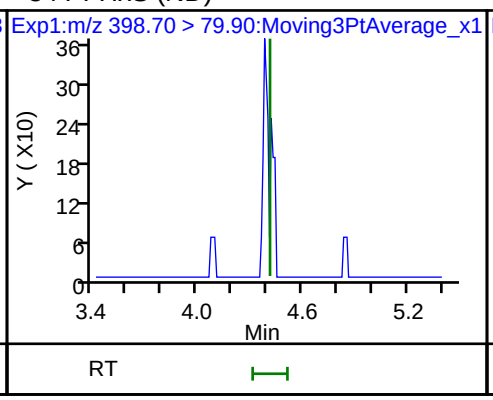

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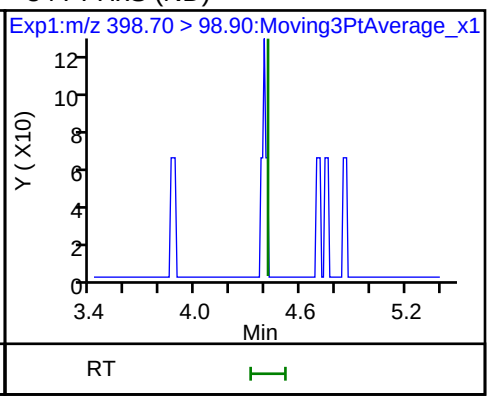
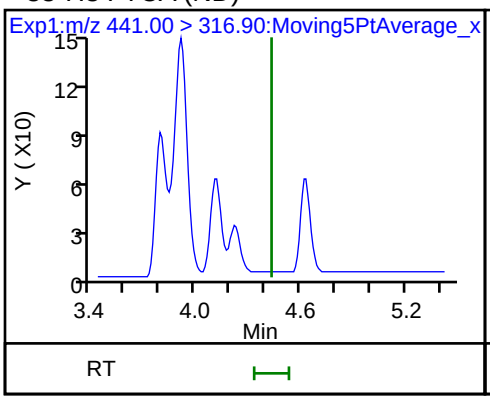
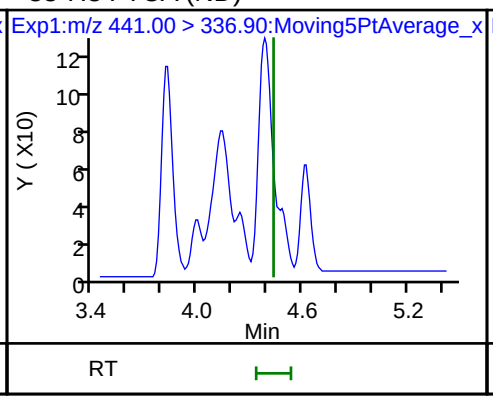


33 7:3 FTCA (ND)



33 7:3 FTCA (ND)



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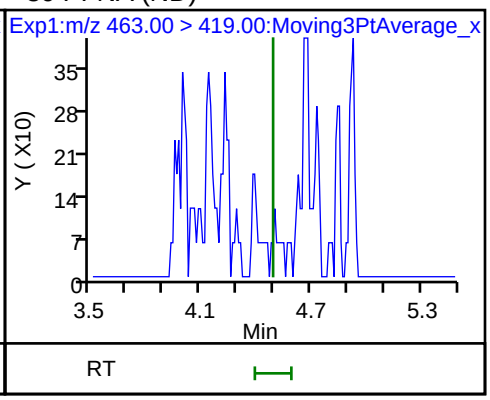

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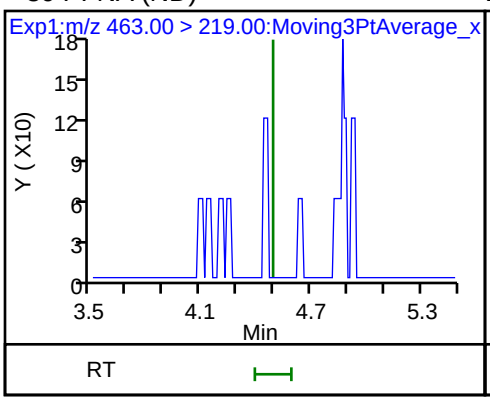
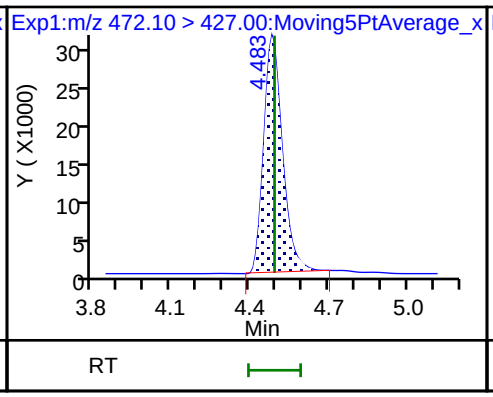
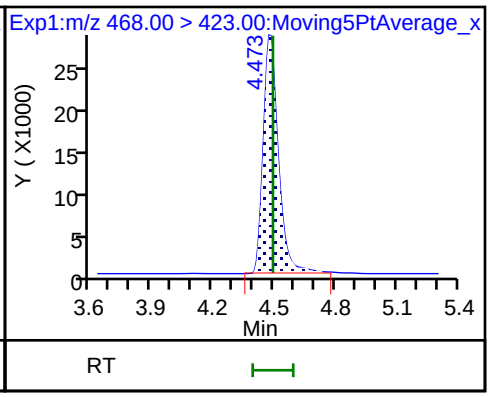


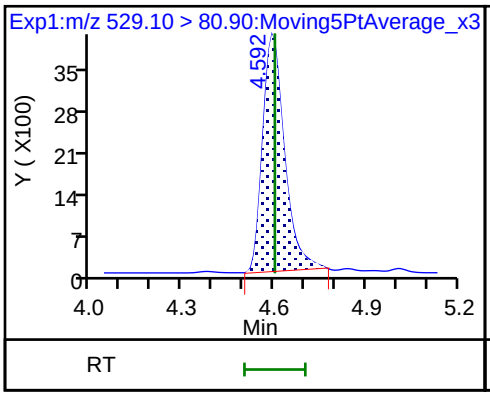
D 38 13C9 PFNA



* 37 13C5 PFNA



D 41 13C2-8:2FTS



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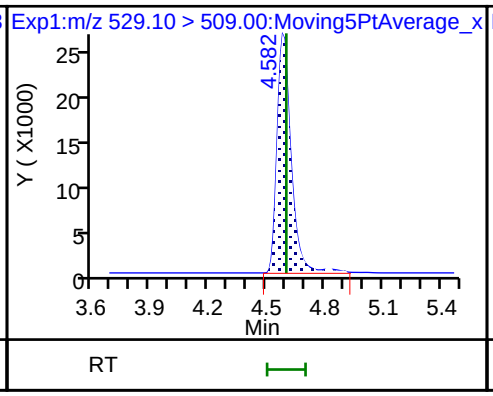

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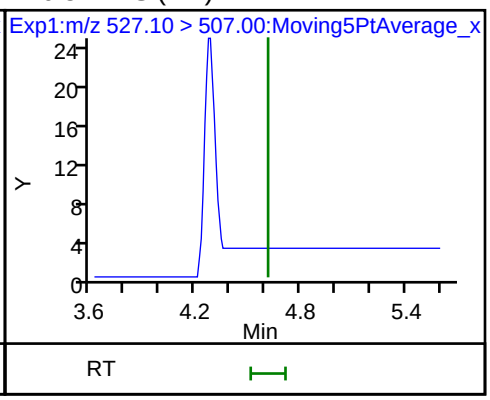

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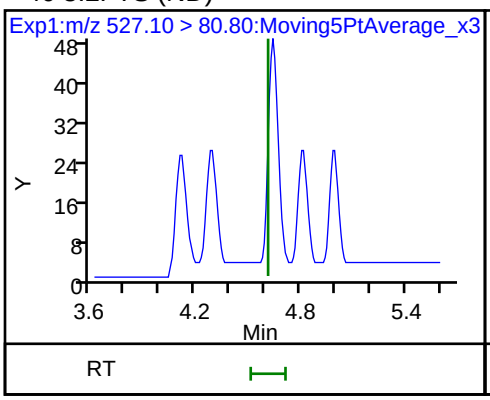

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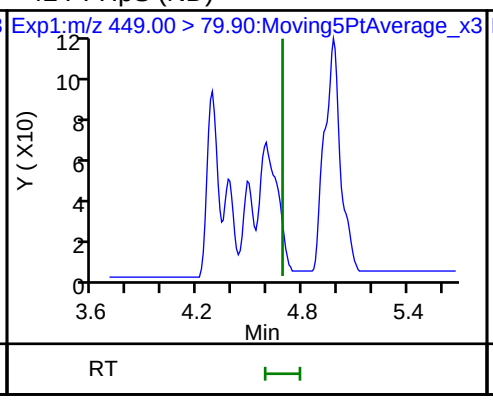

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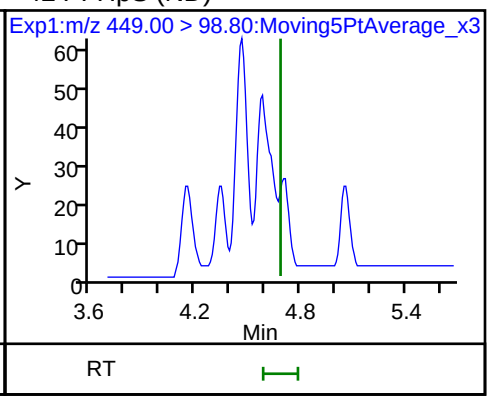
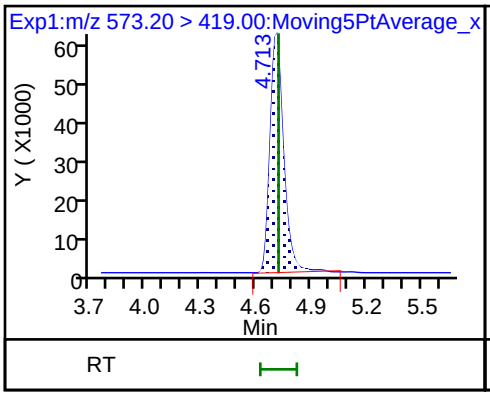


D 44 d3-NMeFOSAA



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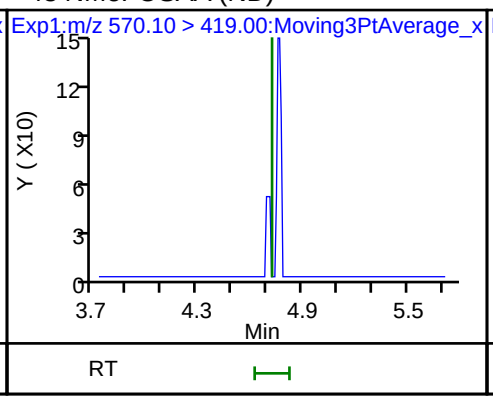

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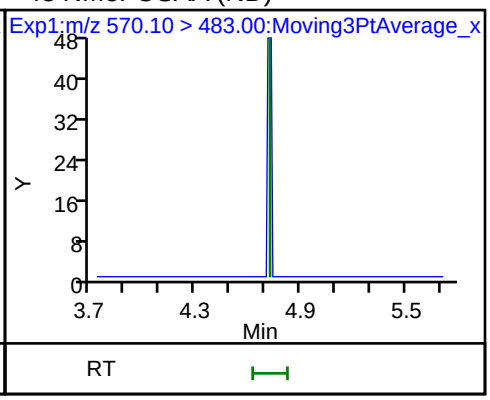
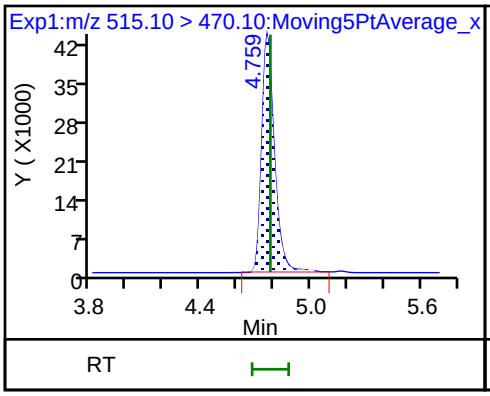
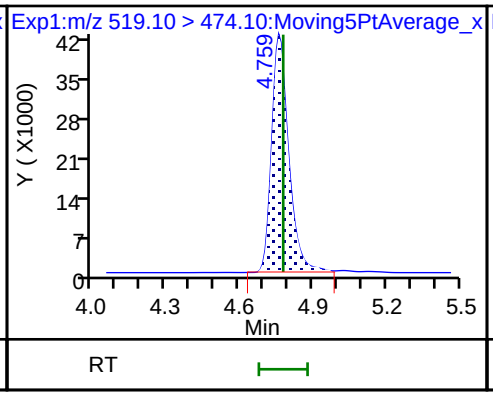


* 46 13C2 PFDA



D 47 13C6 PFDA



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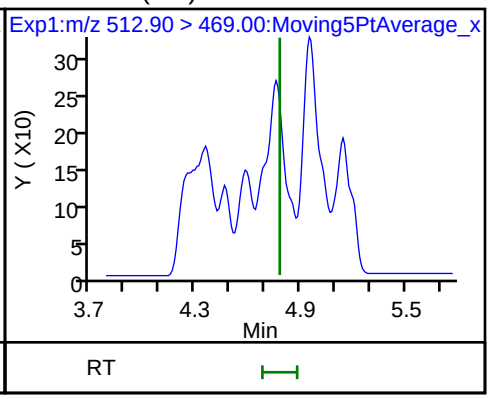

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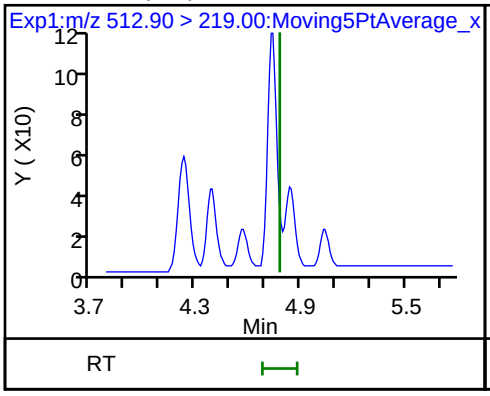
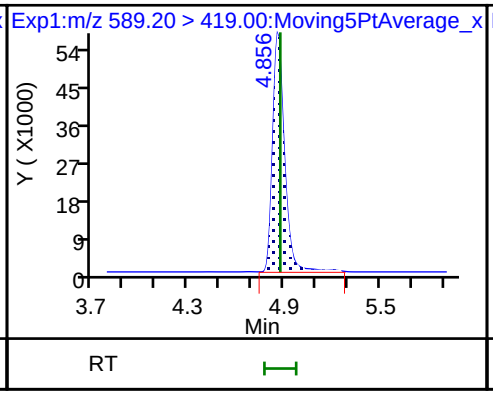


D 49 d5-NEtFOSAA



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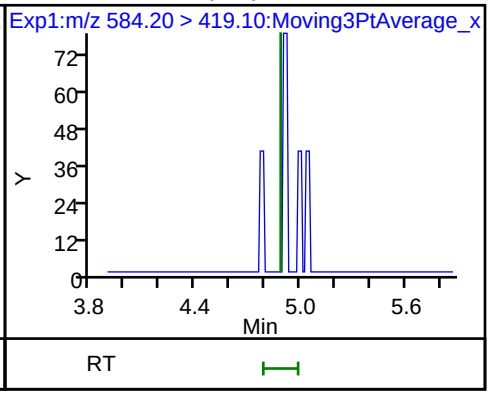

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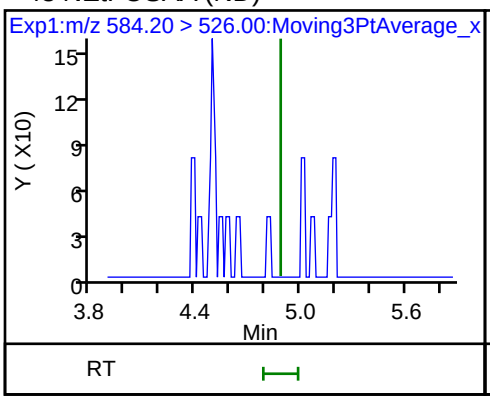
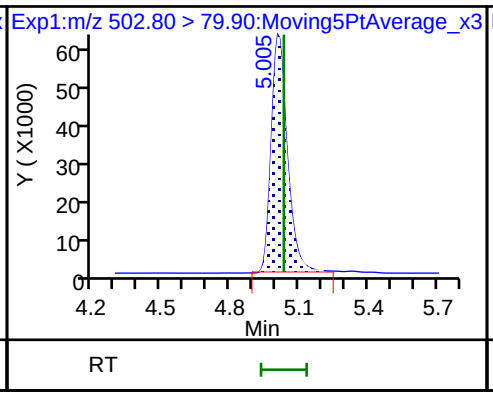


* 52 13C4 PFOS



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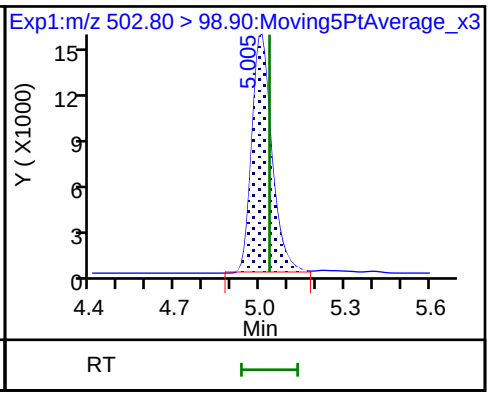

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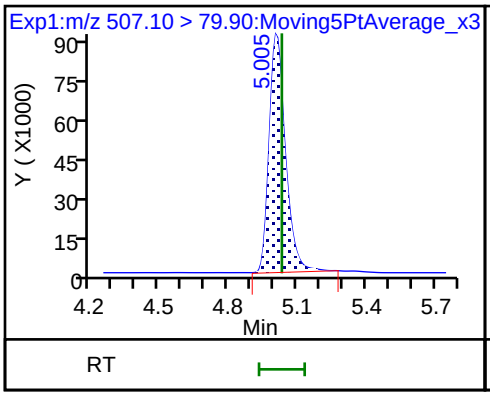

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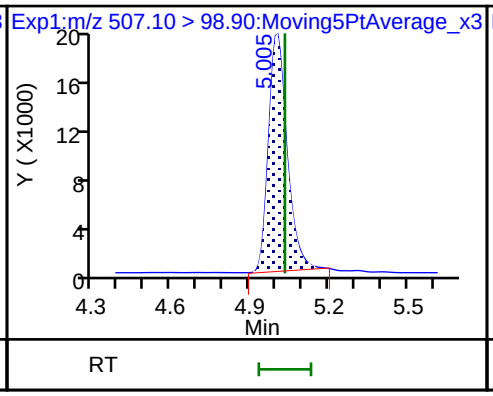

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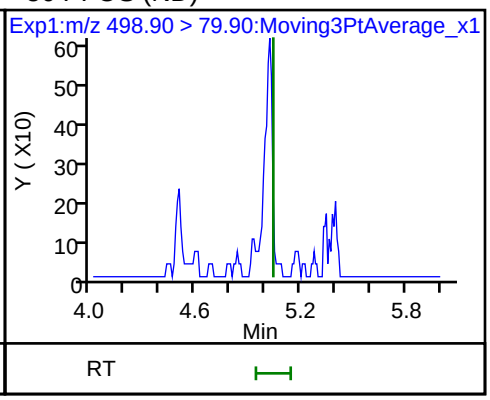

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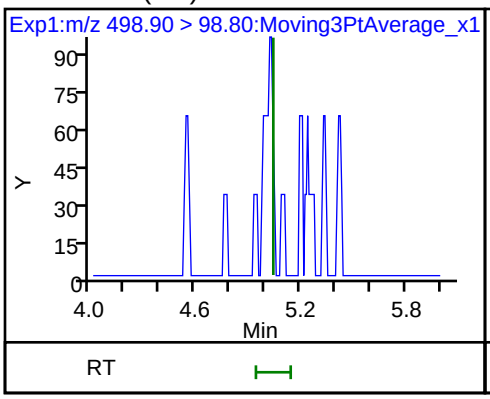

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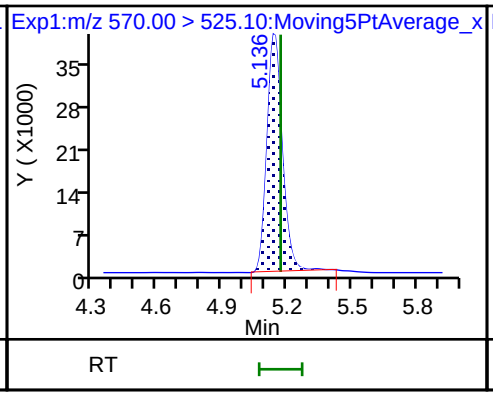

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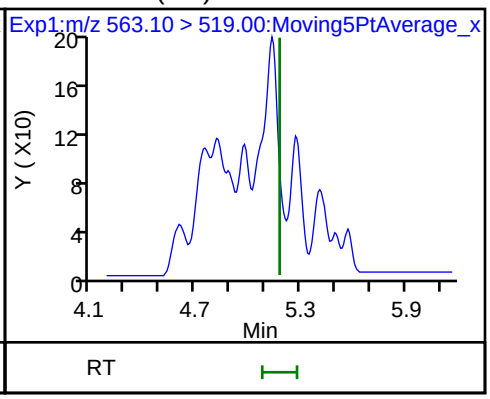

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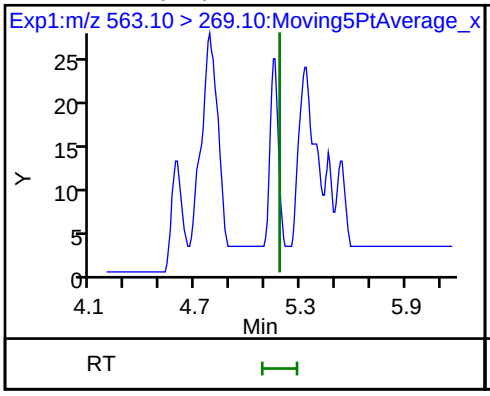

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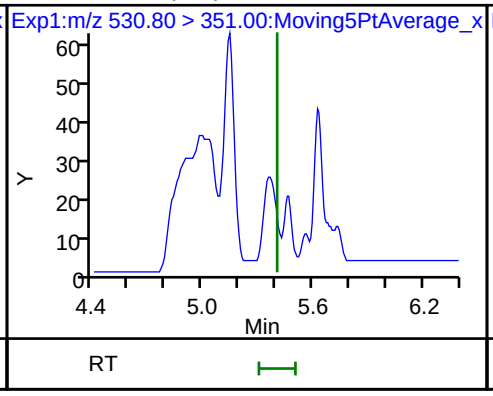

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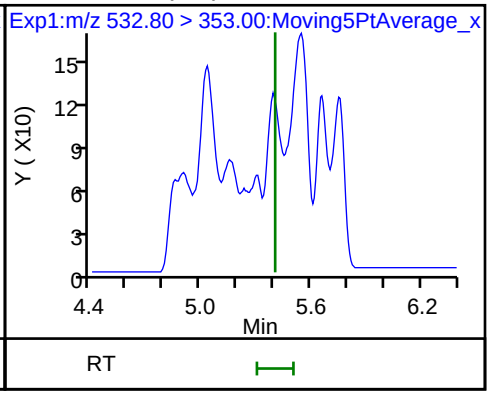

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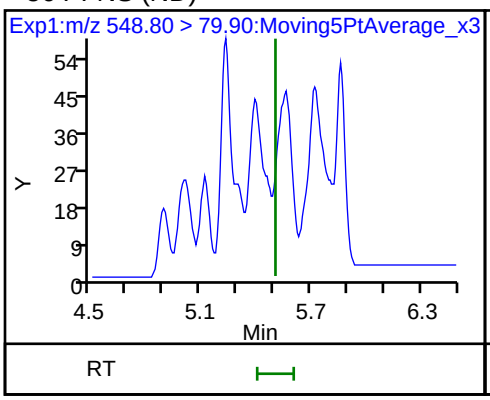

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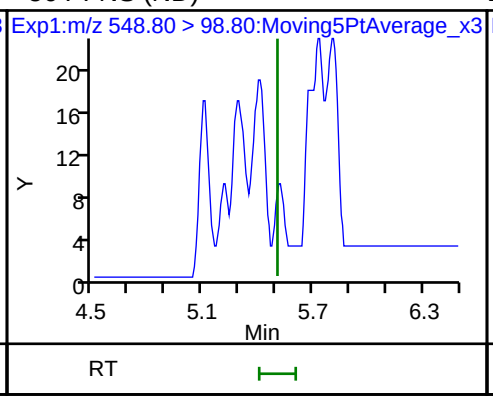
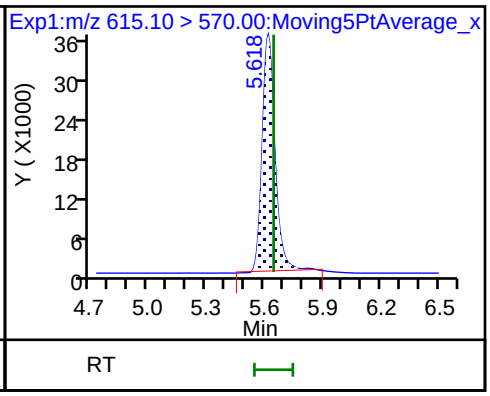


D 58 PFDoDA



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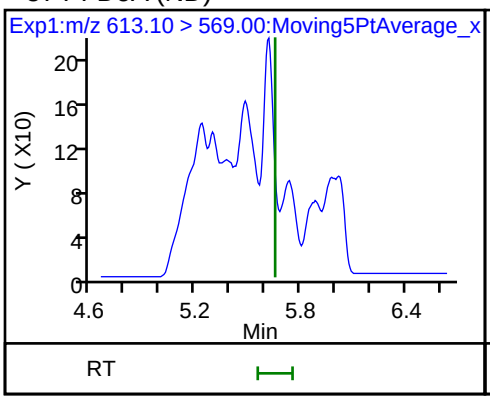

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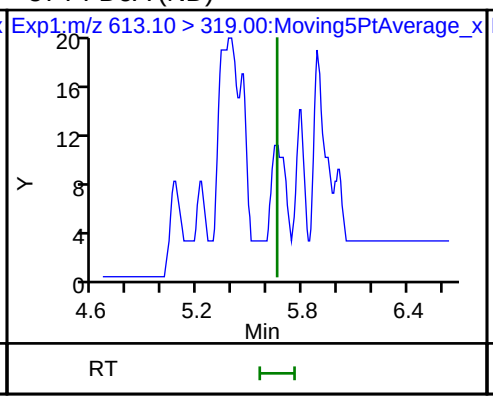

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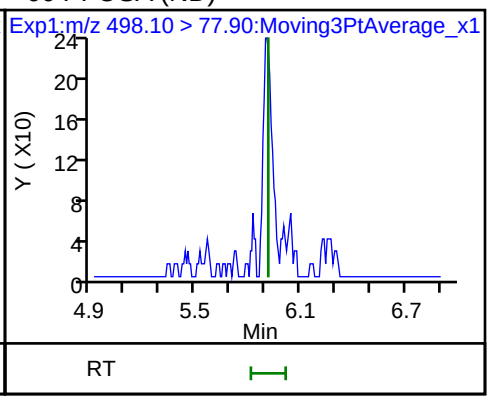

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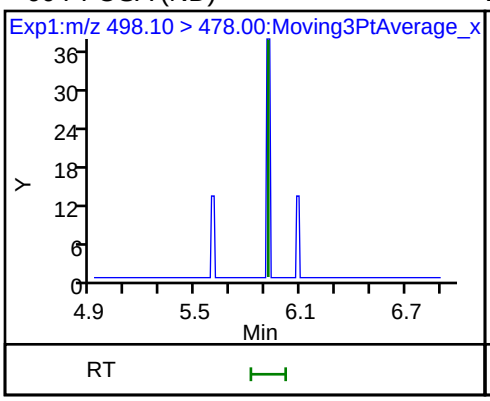

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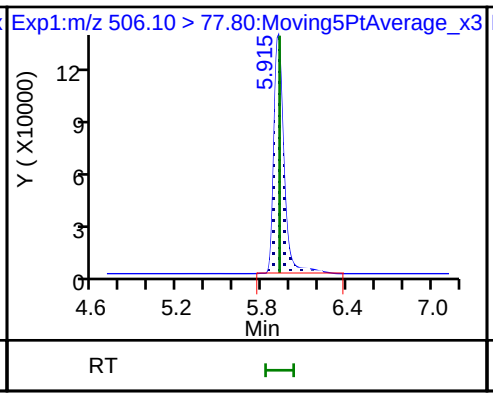
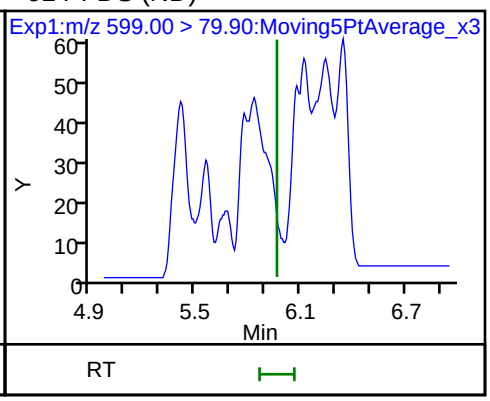


61 PFDS (ND)



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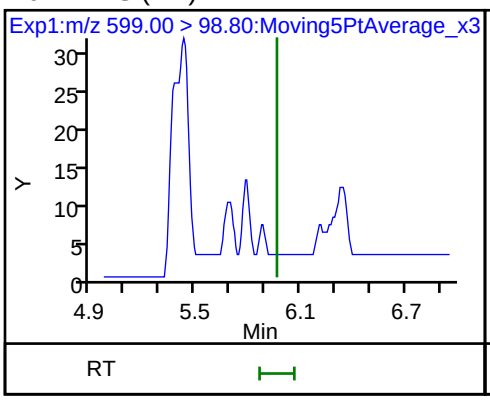

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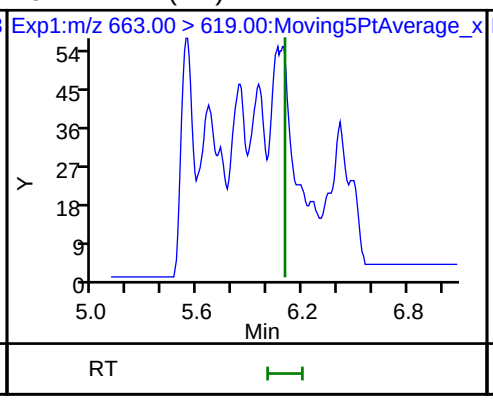

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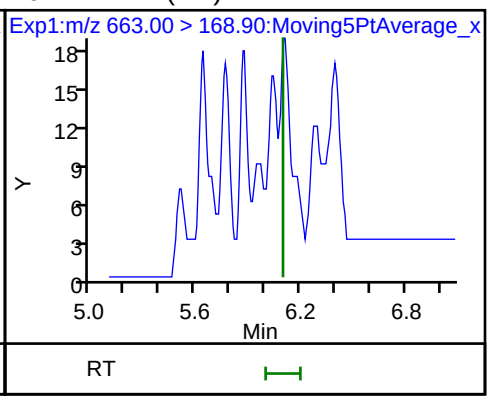

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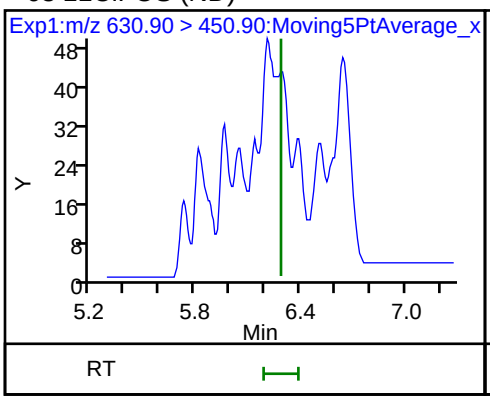

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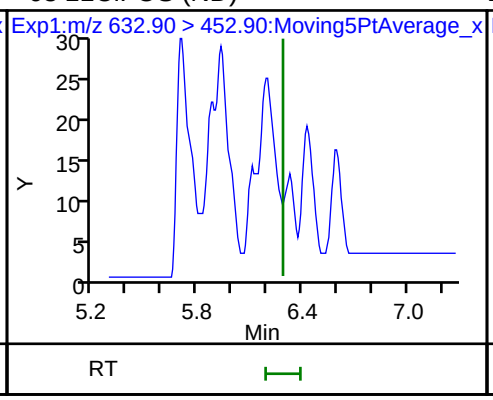
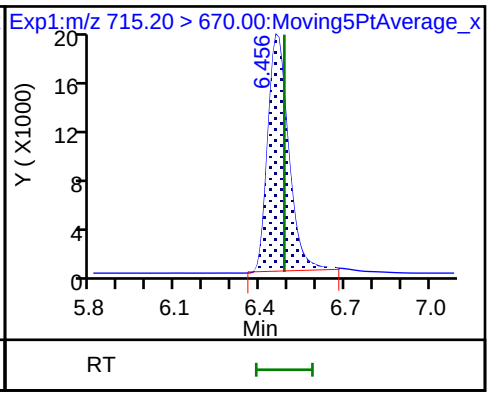
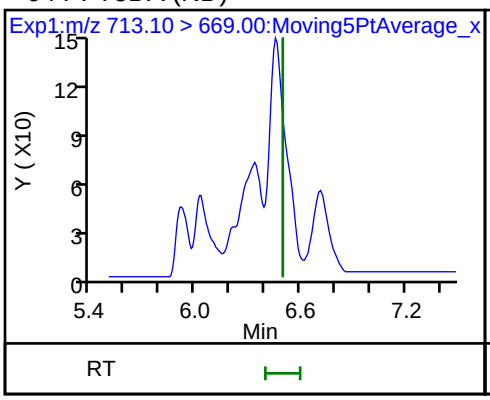


D 65 13C2 PFTeDA



64 PFTeDA (ND)



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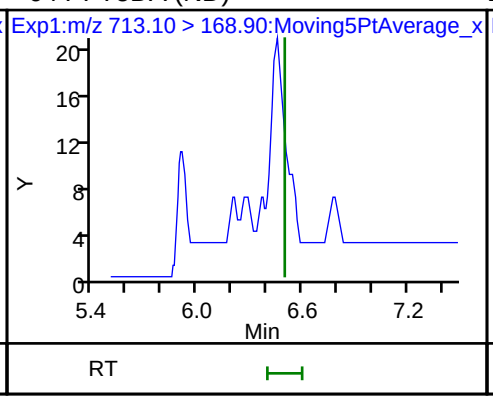
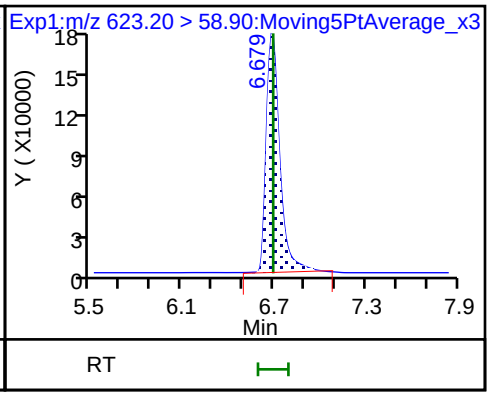
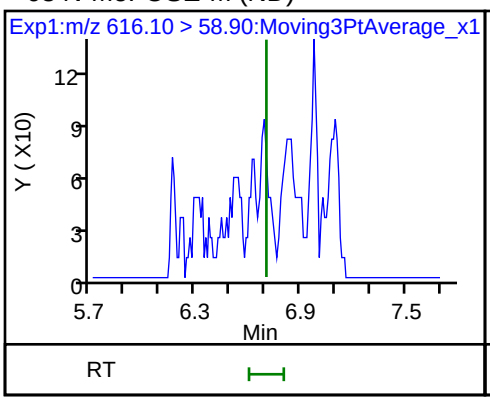


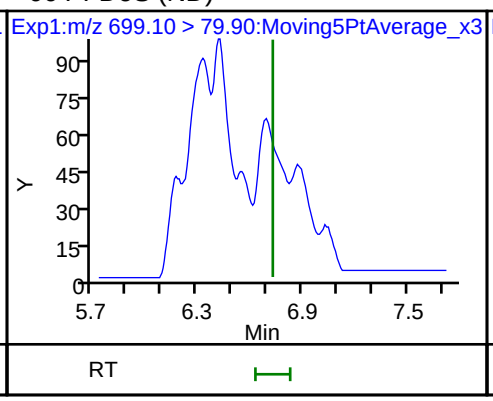
D 67 d7-N-Me-FOSE



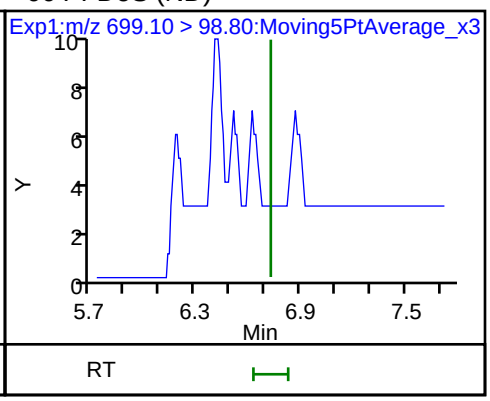
68 N-MeFOSE-M (ND)



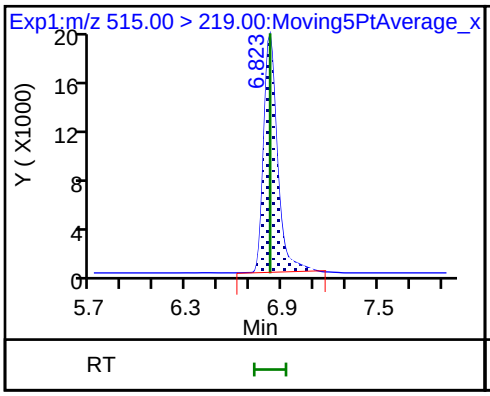
66 PFDoS (ND)



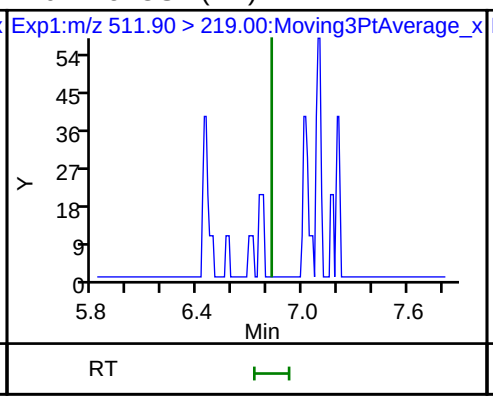
66 PFDoS (ND)



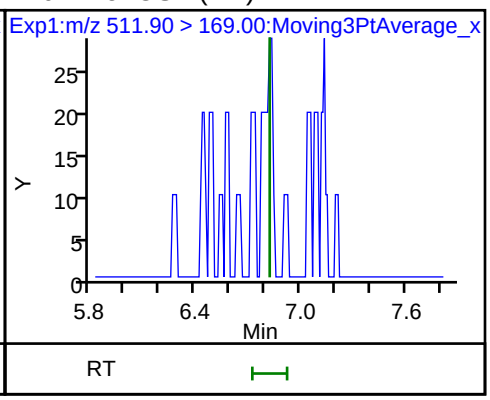
D 69 d3-NMePFOSA



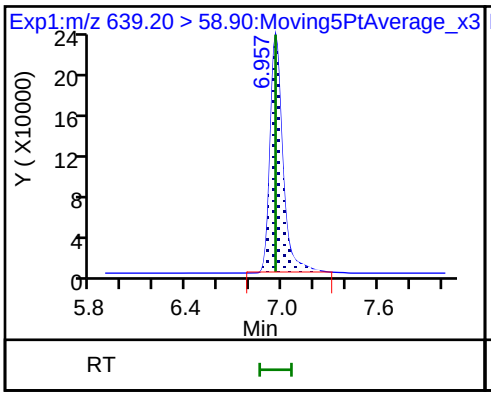
70 NMeFOSA (ND)



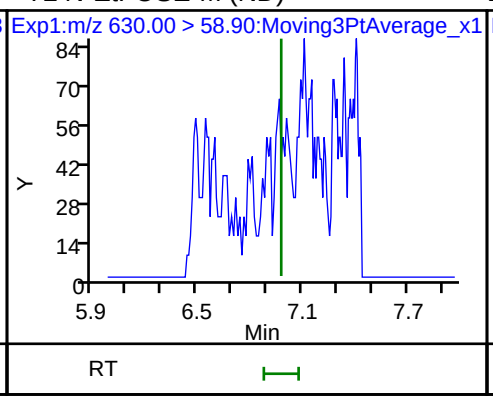
70 NMeFOSA (ND)



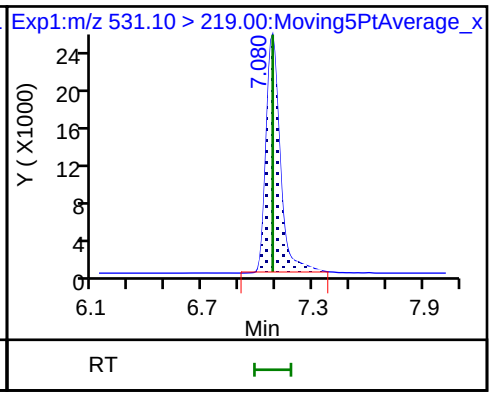
D 71 d9-N-EtFOSE



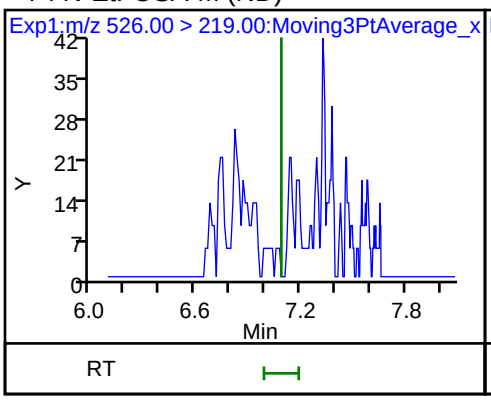
72 N-EtFOSE-M (ND)



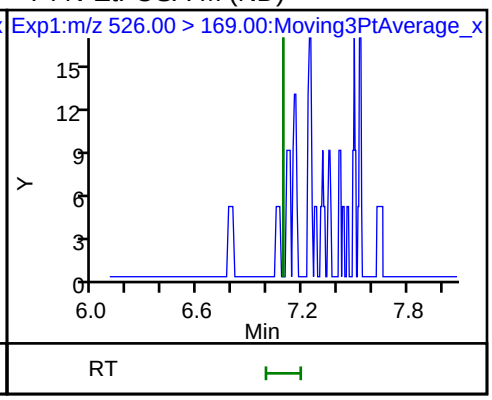
D 73 d5-NEtPFOSA



74 N-EtFOSA-M (ND)



74 N-EtFOSA-M (ND)



FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-282979-1

SDG No.:

Client Sample ID:
Lab Sample ID: CCB 410-405691/55

Matrix: Water
Lab File ID: 23AUG08-60.d

Analysis Method: 1633
Date Collected:

Extraction Method:
Date Extracted:

Sample wt/vol: 0(mL)
Date Analyzed: 08/08/2023 23:24

Con. Extract Vol.:
Dilution Factor: 1

Injection Volume: 2(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691
Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.025	U	0.10	0.025
355-46-4	Perfluorohexanesulfonic acid	0.025	U	0.10	0.025
2058-94-8	Perfluoroundecanoic acid	0.025	U	0.10	0.025
335-67-1	Perfluorooctanoic acid	0.025	U	0.10	0.025
335-77-3	Perfluorodecanesulfonic acid	0.025	U	0.10	0.025
376-06-7	Perfluorotetradecanoic acid	0.025	U	0.10	0.025
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.025	U	0.10	0.025
31506-32-8	NMeFOSA	0.025	U	0.10	0.025
812-70-4	7:3 FTCA	0.025	U	0.10	0.025
335-76-2	Perfluorodecanoic acid	0.025	U	0.10	0.025
72629-94-8	Perfluorotridecanoic acid	0.025	U	0.10	0.025
113507-82-7	PFEESA	0.025	U	0.10	0.025
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	0.025	U	0.10	0.025
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	0.025	U	0.10	0.025
375-95-1	Perfluorononanoic acid	0.025	U	0.10	0.025
13252-13-6	HFPO-DA	0.025	U	0.10	0.025
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	0.025	U	0.10	0.025
2706-91-4	Perfluoropentanesulfonic acid	0.025	U	0.10	0.025
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	0.025	U	0.10	0.025
68259-12-1	Perfluorononanesulfonic acid	0.025	U	0.10	0.025
375-85-9	Perfluoroheptanoic acid	0.025	U	0.10	0.025
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.025	U	0.10	0.025
1763-23-1	Perfluorooctanesulfonic acid	0.025	U	0.10	0.025
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	0.025	U	0.10	0.025
377-73-1	Perfluoro-3-methoxypropanoic acid	0.025	U	0.10	0.025
375-22-4	Perfluorobutanoic acid	0.025	U	0.10	0.025
2991-50-6	NEtFOSAA	0.025	U	0.10	0.025

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 410-405691/55

Matrix: Water Lab File ID: 23AUG08-60.d

Analysis Method: 1633 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 0(mL) Date Analyzed: 08/08/2023 23:24

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-55-1	Perfluorododecanoic acid	0.025	U	0.10	0.025
307-24-4	Perfluorohexanoic acid	0.025	U	0.10	0.025
863090-89-5	Perfluoro(4-methoxybutanoic acid)	0.025	U	0.10	0.025
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	0.025	U	0.10	0.025
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.025	U	0.10	0.025
2706-90-3	Perfluoropentanoic acid	0.025	U	0.10	0.025
914637-49-3	5:3 FTCA	0.025	U	0.10	0.025
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	0.025	U	0.10	0.025
754-91-6	Perfluorooctanesulfonamide	0.025	U	0.10	0.025
356-02-5	3:3 FTCA	0.025	U	0.10	0.025
2355-31-9	NMeFOSAA	0.025	U	0.10	0.025
375-73-5	Perfluorobutanesulfonic acid	0.025	U	0.10	0.025
375-92-8	Perfluoroheptanesulfonic acid	0.025	U	0.10	0.025

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 410-405691/55

Matrix: Water Lab File ID: 23AUG08-60.d

Analysis Method: 1633 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 0(mL) Date Analyzed: 08/08/2023 23:24

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691 Units: ng/mL

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	102		10-130
STL01893	13C5 PFPeA	125		35-150
STL02577	13C5 PFHxA	113		55-150
STL01892	13C4 PFHpA	124		55-150
STL01052	13C8 PFOA	93.9		60-140
STL02578	13C9 PFNA	98.3		55-140
STL02579	13C6 PFDA	108		50-140
STL02580	13C7 PFUnA	108		30-140
STL02703	13C2-PFDoDA	110		10-150
STL02116	13C2 PFTeDA	116		10-130
STL02337	13C3 PFBS	125		55-150
STL02581	13C3 PFHxS	110		55-150
STL01054	13C8 PFOS	107		45-140
STL01056	13C8 FOSA	113		30-130
STL02118	d3-NMeFOSAA	109		45-200
STL02117	d5-NEtFOSAA	108		10-200
STL02395	M2-4:2 FTS	104		60-200
STL02279	M2-6:2 FTS	109	I	60-200
STL02280	M2-8:2 FTS	99.8		50-200
STL02255	13C3 HFPO-DA	122		25-160
STL02277	d7-N-MeFOSE-M	104		10-150
STL02278	d9-N-EtFOSE-M	103		10-150
STL02704	d5-NEtPFOSA	105		10-130
STL02705	d3-NMePFOSA	102		15-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-60.d
Lims ID: CCB
Client ID:
Sample Type: CCB
Inject. Date: 08-Aug-2023 23:24:31 ALS Bottle#: 20001 Worklist Smp#: 55
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCB
Misc. Info.: Plate: 1 Rack: 1 410-0090889-055
Operator ID: US19_USR_INS20263 Instrument ID: 30729

Method: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\PFAS_30729_1633.m
Limit Group: LC - 1633 ICAL
Last Update: 09-Aug-2023 09:53:08 Calib Date: 05-Aug-2023 11:25:28
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-11.d

Column 1 : Det: EXP1
Process Host: CTX1649

First Level Reviewer: QY4X Date: 09-Aug-2023 08:17:45
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4-PFBA										
216.80 > 171.90	2.933	2.932	0.001	1.000	1354655	10.2		102	79691	
* 3 13C3PFBA										
216.00 > 172.00	2.933	2.932	0.001		821856	5.00			1746	
D 7 13C5 PFPeA										
268.30 > 223.00	3.445	3.444	0.001	0.918	416980	6.27		125	25773	
D 10 13C2-4:2FTS										
329.10 > 80.90	3.640	3.638	0.002	0.828	64002	4.89	Target=0.35	104	3052	
329.10 > 309.00	3.629	3.638	-0.010	0.826	183181		0.35(0.18-0.53)	104	10904	
D 14 13C5 PFHxA										M
318.00 > 273.00	3.752	3.750	0.002	1.000	45857	2.83	Target=15.34	113	3063	
318.00 > 120.30	3.742	3.750	-0.008	0.997	4169		11.00(7.67-23.01)	113	249	M
* 15 13C2 PFHxA										
315.10 > 270.00	3.752	3.750	0.002		231514	2.50	Target=103.53		11630	
315.10 > 119.40	3.742	3.750	-0.008		1663		139.21(51.76-155.29)		124	
D 18 13C3 PFBS										
302.10 > 79.90	3.858	3.856	0.002	0.878	539601	2.92	Target=6.99	125	33635	
302.10 > 98.90	3.847	3.856	-0.010	0.875	75742		7.12(3.50-10.49)	125	4904	
21 TCDCA										
498.10 > 80.00	3.892	3.867	0.025	0.777	230	0.001265			170	
D 20 13C3 HFPO-DA										
286.90 > 168.90	3.869	3.867	0.002	1.031	1241968	12.2	Target=29.00	122	75415	
286.90 > 184.90	3.858	3.867	-0.009	1.028	41005		30.29(14.50-43.50)	122	2568	
D 25 13C4 PFHpA										
367.10 > 322.00	4.009	4.018	-0.009	1.069	602601	3.10		124	37560	
D 29 13C2-6:2FTS										R
429.10 > 80.90	4.120	4.129	-0.009	0.938	34995	5.18	Target=0.12	109	2149	R
429.10 > 409.00	4.120	4.129	-0.009	0.938	189484		0.18(0.06-0.18)	109	11240	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 30 13C4 PFOA										
417.10 > 172.00	4.253	4.261	-0.008		25593	2.50			1695	
D 31 13C8 PFOA										
421.10 > 376.00	4.253	4.261	-0.008	1.000	571210	2.35		93.9	34727	
* 35 18O2 PFHxS										
403.00 > 83.90	4.394	4.401	-0.007		422476	2.37			28617	
D 36 13C3 PFHxS										
402.10 > 79.90	4.403	4.411	-0.008	1.002	521453	2.60	Target=3.90	110	26834	
402.10 > 98.80	4.394	4.411	-0.017	1.000	136795		3.81(1.95-5.85)	110	9252	
D 38 13C9 PFNA										
472.10 > 427.00	4.485	4.493	-0.008	1.000	162703	1.23		98.3	8726	
* 37 13C5 PFNA										
468.00 > 423.00	4.485	4.493	-0.008		156802	1.25			8084	
D 41 13C2-8:2FTS										
529.10 > 80.90	4.594	4.601	-0.007	1.046	17278	4.79	Target=0.14	99.8	1207	
529.10 > 509.00	4.584	4.601	-0.017	1.043	129836		0.13(0.07-0.21)	99.8	6464	
D 44 d3-NMeFOSAA										
573.20 > 419.00	4.706	4.723	-0.017	0.940	324566	5.46		109	21090	
* 46 13C2 PFDA										
515.10 > 470.10	4.762	4.778	-0.016		194024	1.25			10021	
D 47 13C6 PFDA										
519.10 > 474.10	4.762	4.778	-0.016	1.000	210690	1.35		108	14445	
D 49 d5-NEtFOSAA										
589.20 > 419.00	4.868	4.874	-0.006	0.972	298690	5.40		108	19413	
* 52 13C4 PFOS										
502.80 > 79.90	5.008	5.033	-0.025		286494	2.40	Target=4.18		11635	
502.80 > 98.90	4.999	5.033	-0.034		79889		3.59(2.09-6.27)		5398	
D 51 13C8 PFOS										
507.10 > 79.90	5.008	5.033	-0.025	1.000	435427	2.56	Target=3.96	107	28839	
507.10 > 98.90	5.008	5.033	-0.025	1.000	101528		4.29(1.98-5.94)	107	6810	
D 54 13C7 PFUnA										
570.00 > 525.10	5.138	5.170	-0.032	1.079	193816	1.35		108	9782	
D 58 PFDoDA										
615.10 > 570.00	5.620	5.646	-0.026	1.180	175598	1.37		110	12653	
D 59 13C8 FOSA										
506.10 > 77.80	5.917	5.923	-0.006	1.181	705824	2.83		113	48235	
D 65 13C2 PFTeDA										
715.20 > 670.00	6.458	6.485	-0.027	1.356	104255	1.45		116	6625	
D 67 d7-N-Me-FOSE										
623.20 > 58.90	6.694	6.692	0.002	1.337	1065665	25.9		104	43285	
D 69 d3-NMePFOSA										
515.00 > 219.00	6.825	6.823	0.002	1.363	125261	2.56		102	6990	
D 71 d9-N-EtFOSE										
639.20 > 58.90	6.959	6.957	0.002	1.390	1296876	25.7		103	39586	
D 73 d5-NEtPFOSA										
531.10 > 219.00	7.082	7.080	0.002	1.414	138285	2.63		105	8689	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Reagents:

PFC_ST_02171	Amount Added:	5.00	Units: uL	
PFC_ST_02214	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 09-Aug-2023 09:53:29 Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-60.d

Injection Date: 08-Aug-2023 23:24:31 Instrument ID: 30729

Lims ID: CCB

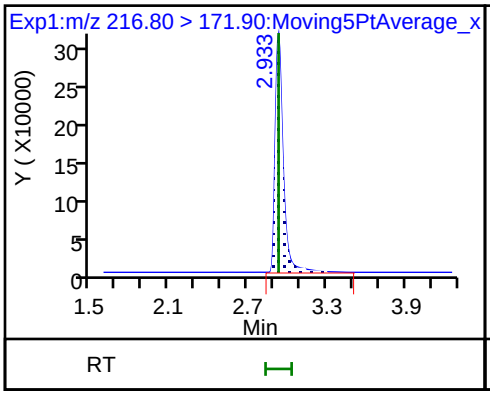
Client ID:

Operator ID: US19_USR_INS20263 ALS Bottle#: 20001 Worklist Smp#: 55

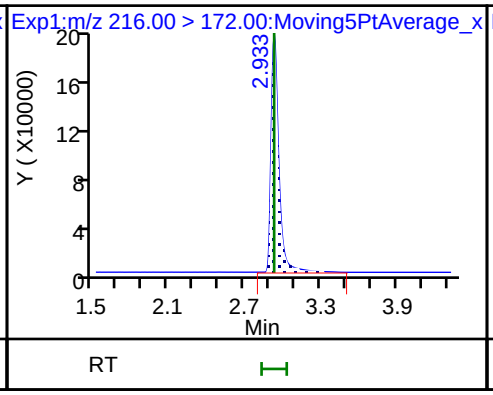
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: PFAS_30729_1633 Limit Group: LC - 1633 ICAL

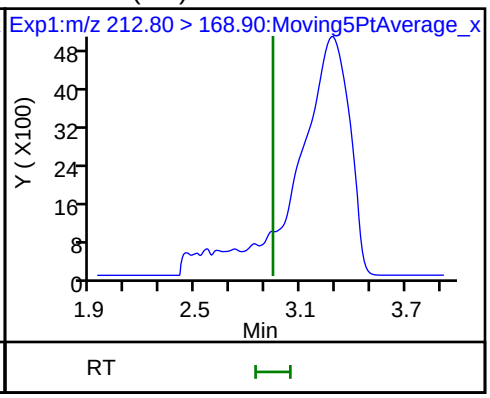
D 2 13C4-PFBA



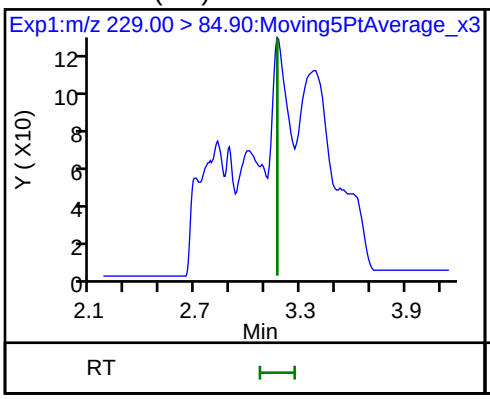
* 3 13C3PFBA



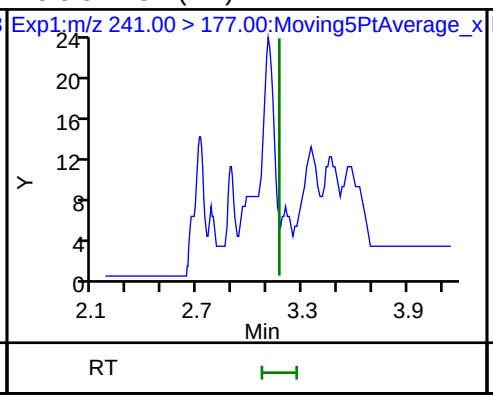
1 PFBA (ND)



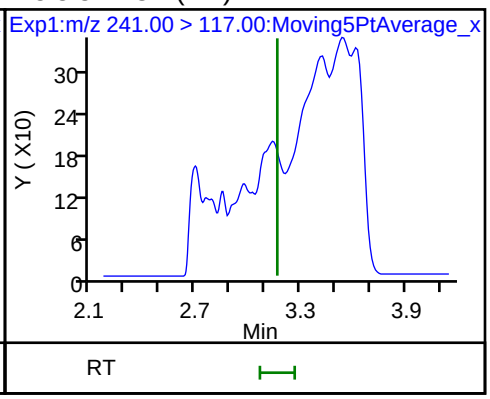
4 PFMPA (ND)



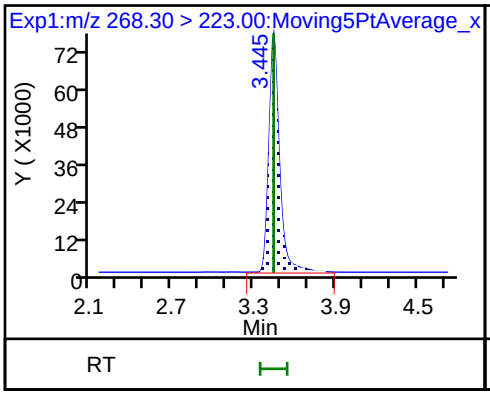
5 3:3 FTCA (ND)



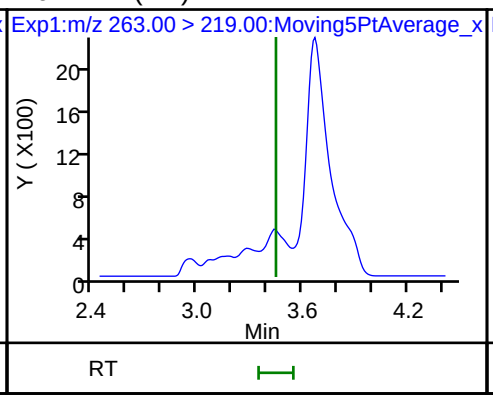
5 3:3 FTCA (ND)



D 7 13C5 PFPeA



6 PFPA (ND)



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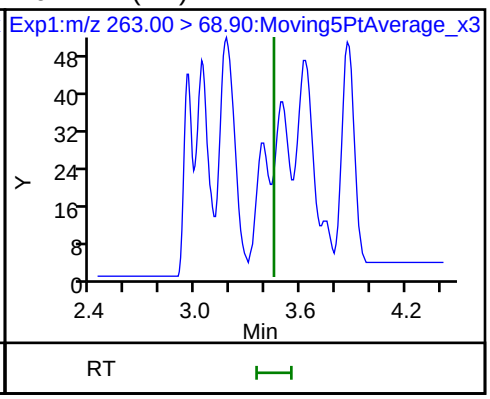
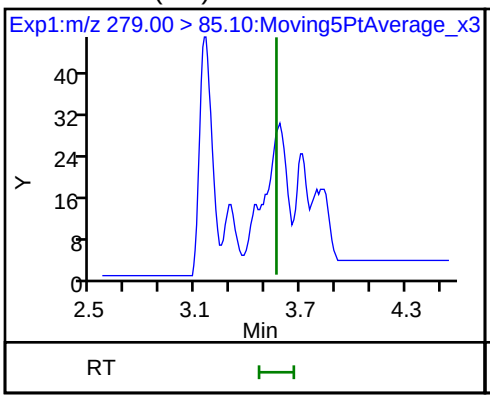


8 PFMBA (ND)



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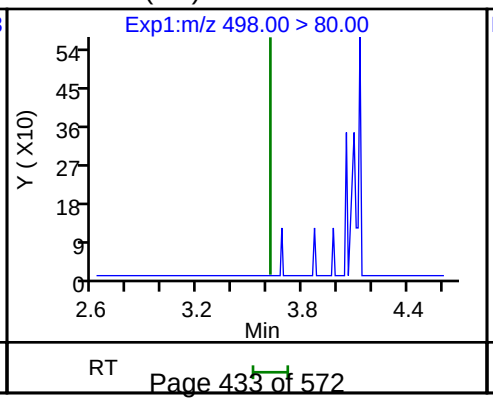
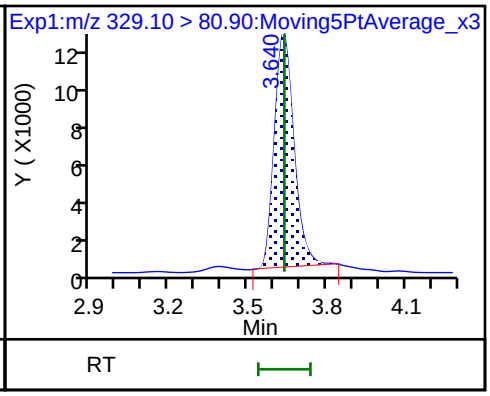
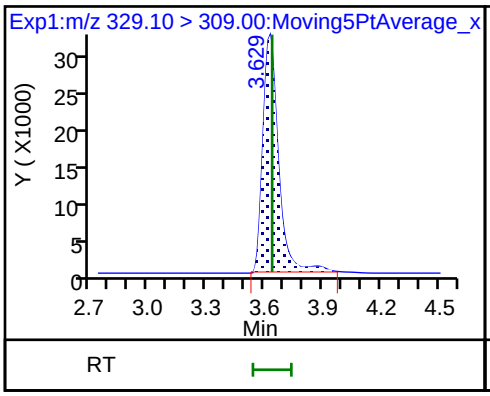


D 10 13C2-4:2FTS



D 10 13C2-4:2FTS



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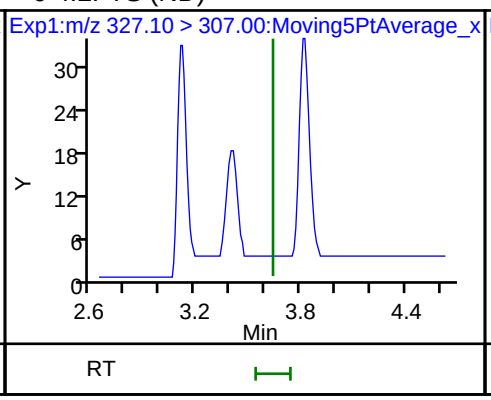
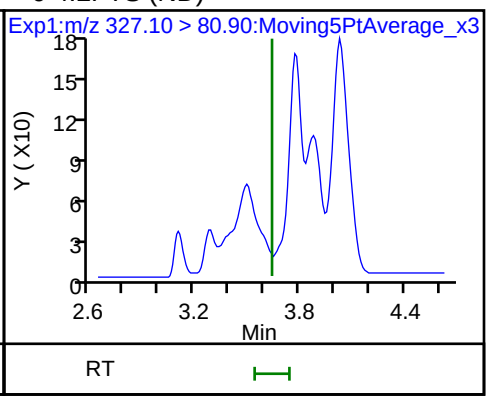
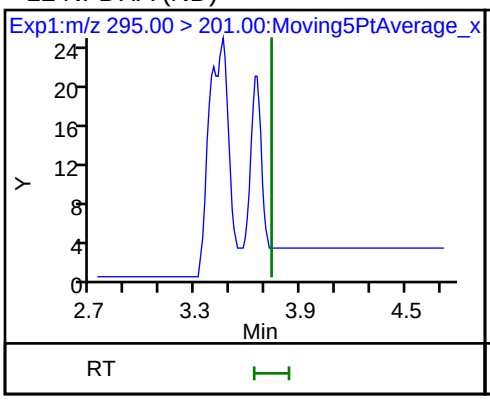


9 4:2FTS (ND)



12 NFDHA (ND)



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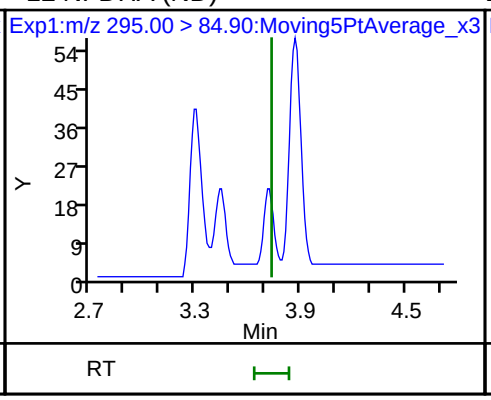
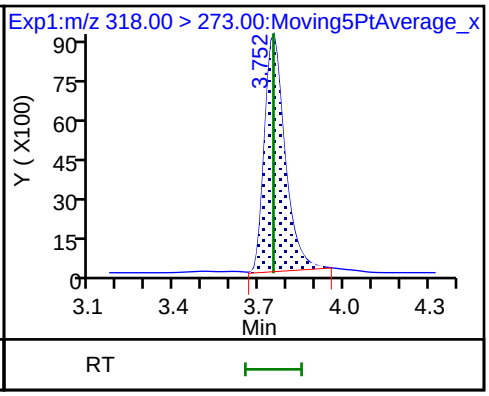


D 14 13C5 PFHxA



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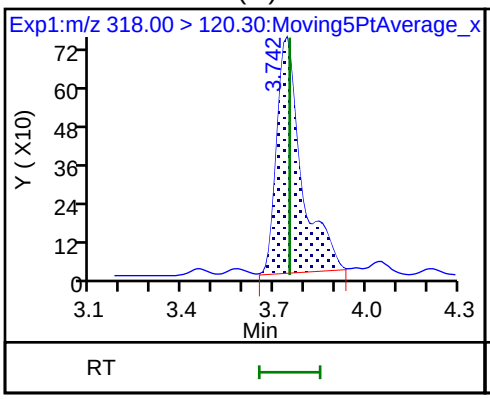
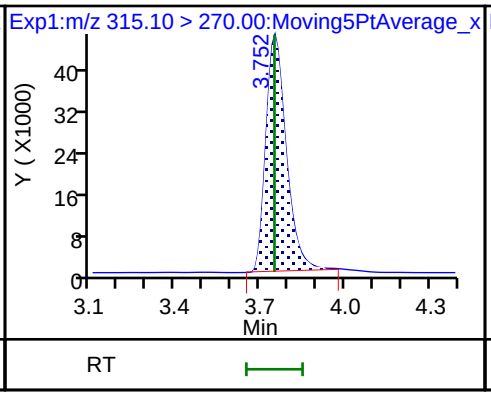
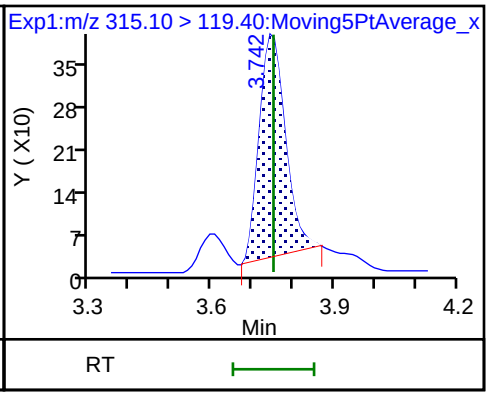


* 15 13C2 PFHxA



* 15 13C2 PFHxA



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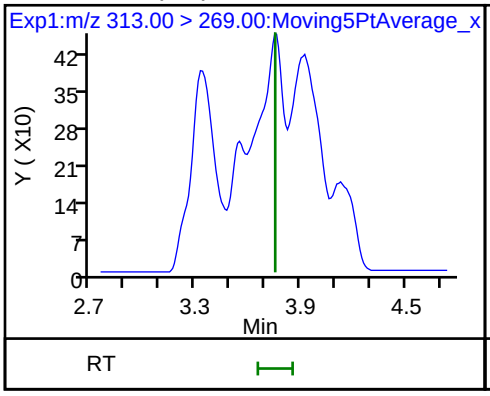

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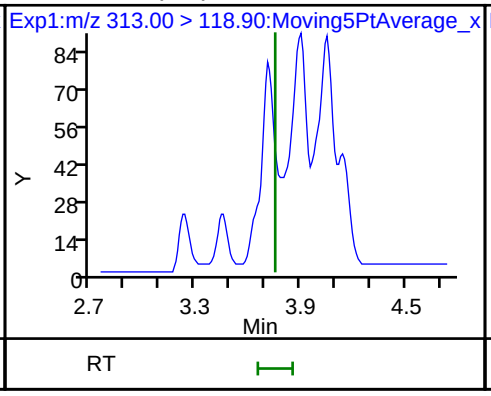
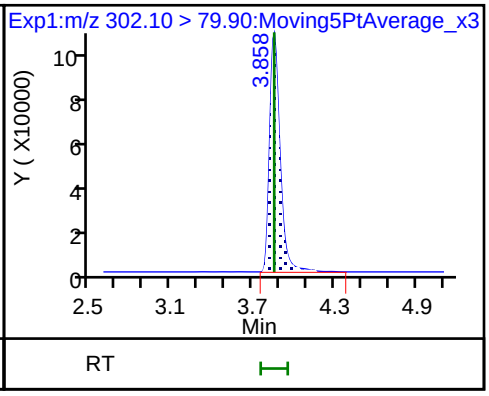
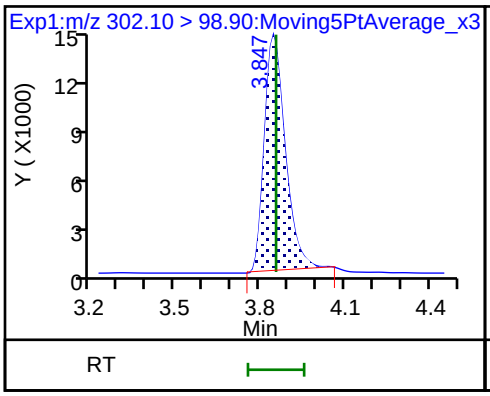


D 18 13C3 PFBS



D 18 13C3 PFBS



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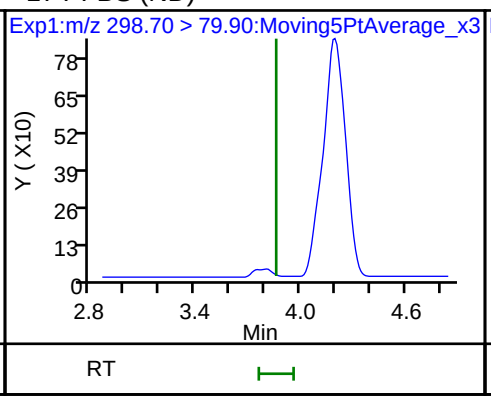

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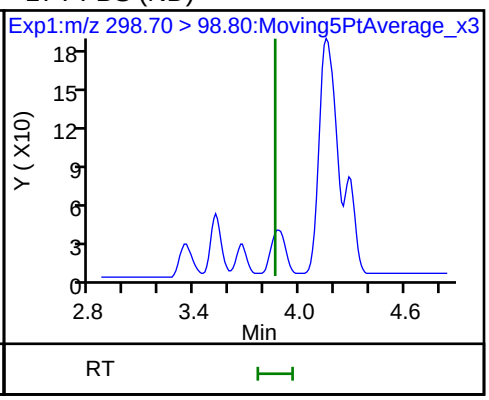
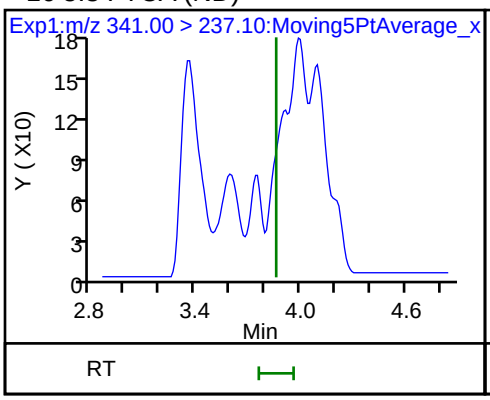
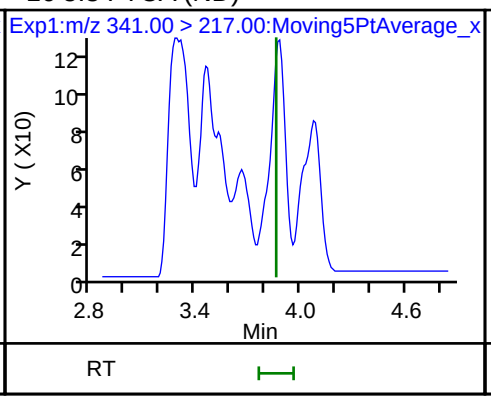


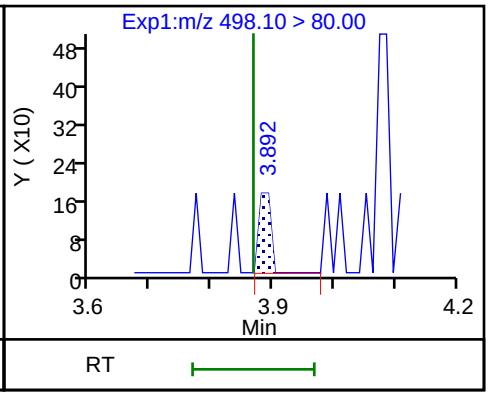
16 5:3 FTCA (ND)



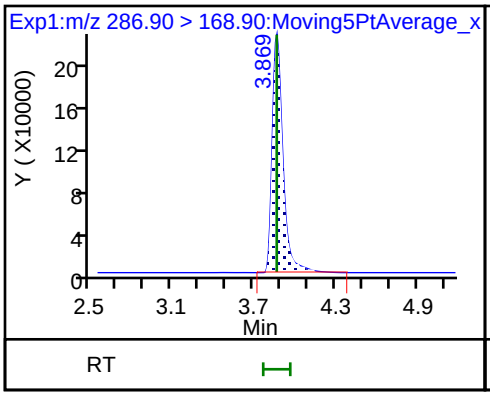
16 5:3 FTCA (ND)



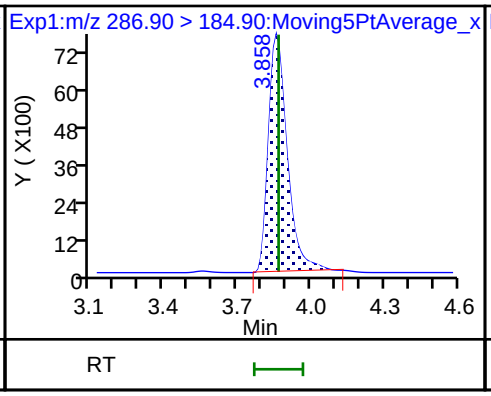
21 TCDCA



D 20 13C3 HFPO-DA



D 20 13C3 HFPO-DA



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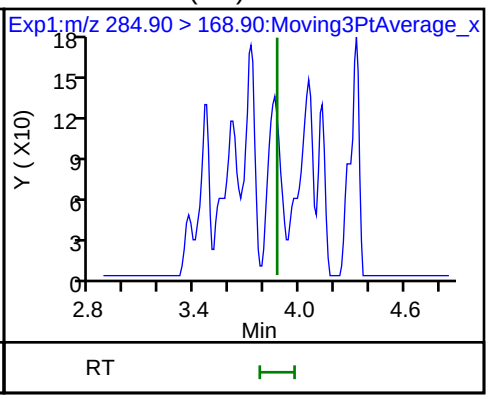

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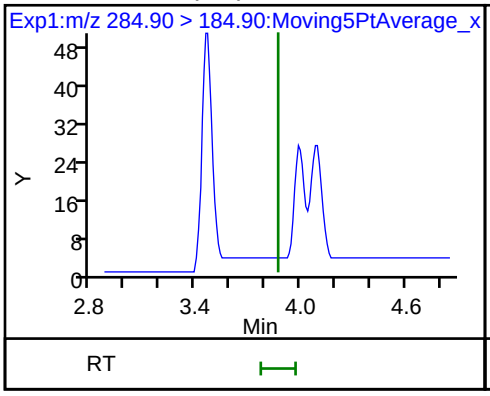

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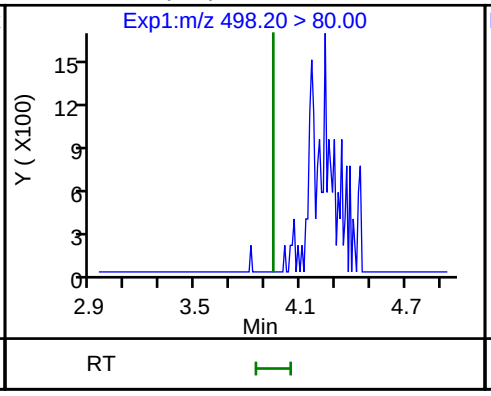

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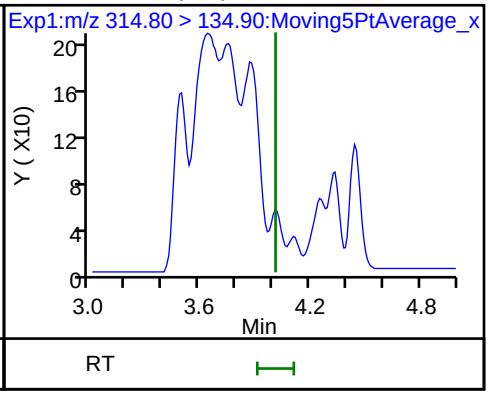

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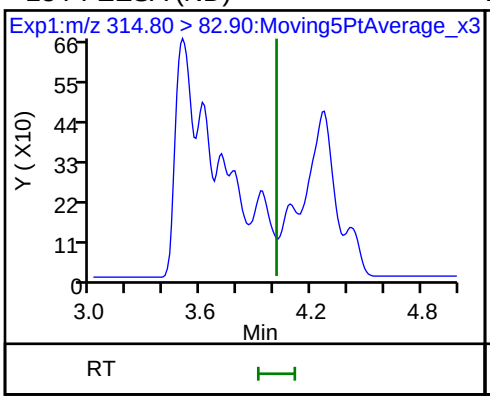
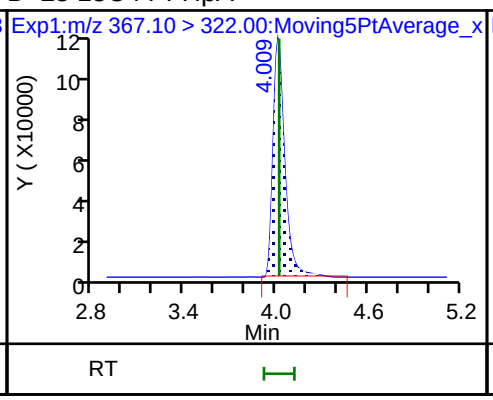
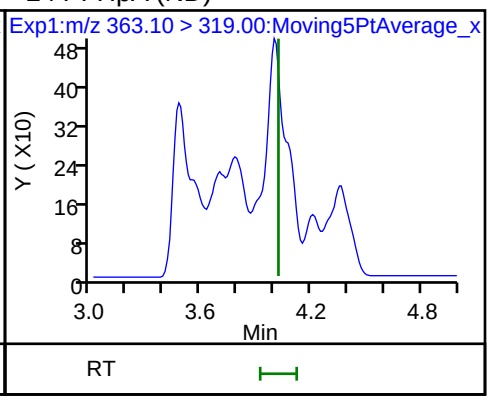


D 25 13C4 PFHpA



24 PFHpA (ND)



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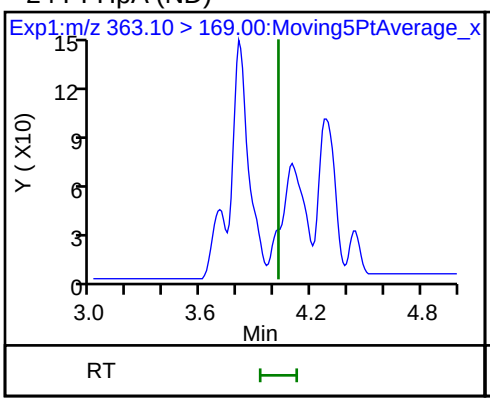

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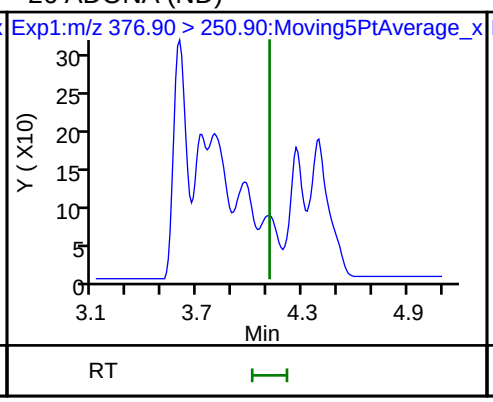

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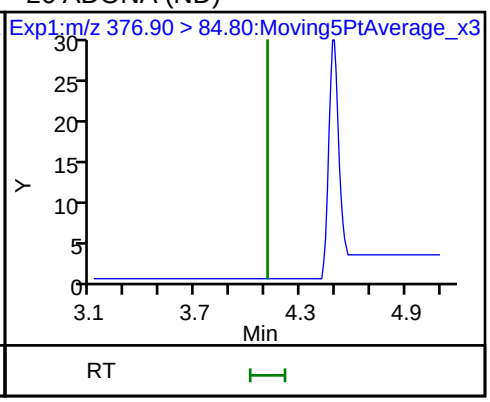
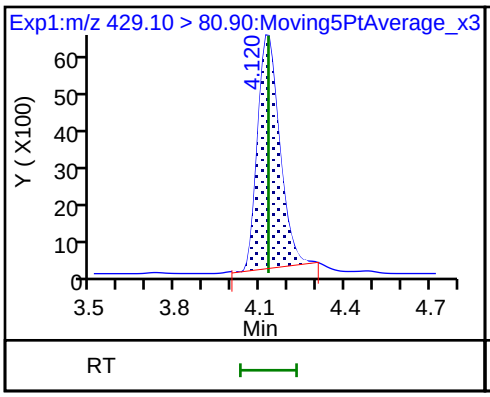
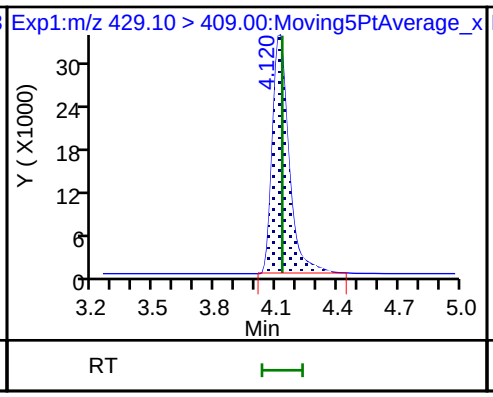


D 29 13C2-6:2FTS



D 29 13C2-6:2FTS



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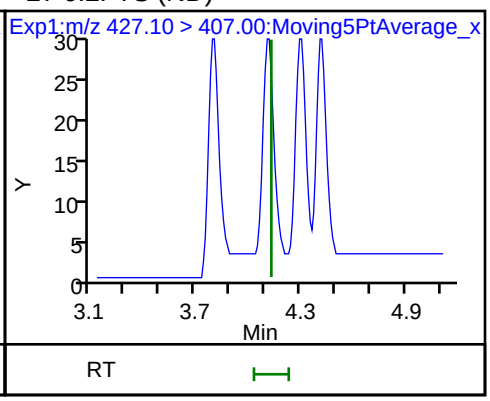

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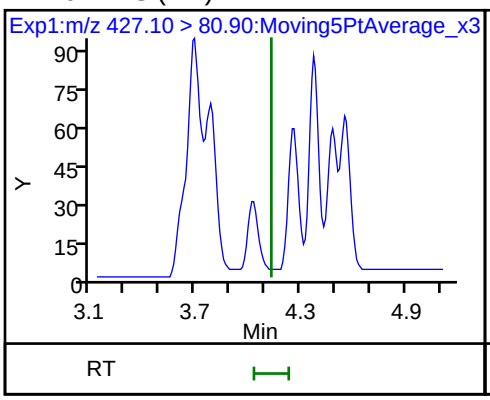

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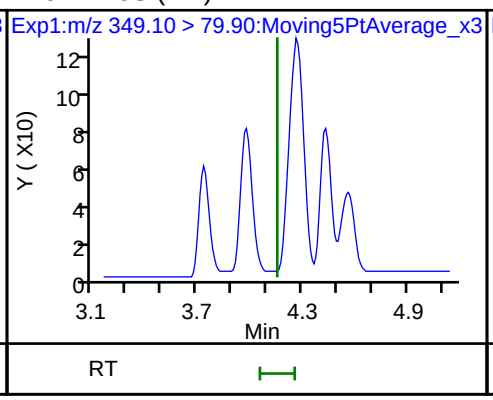

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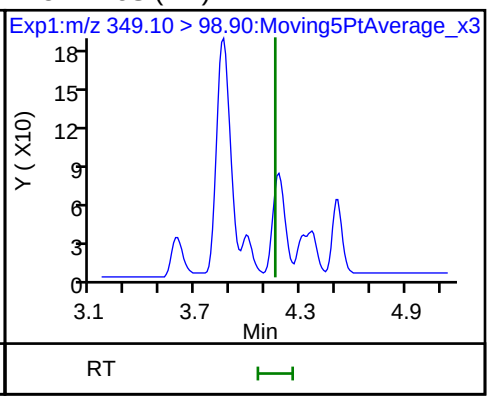

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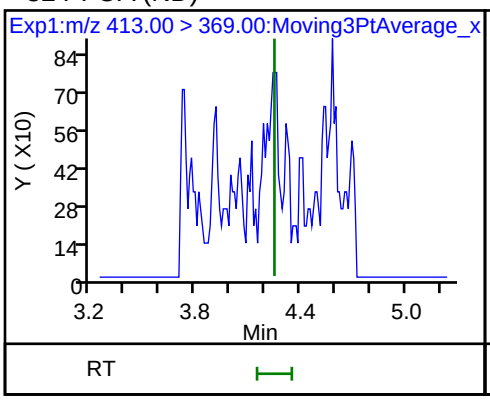

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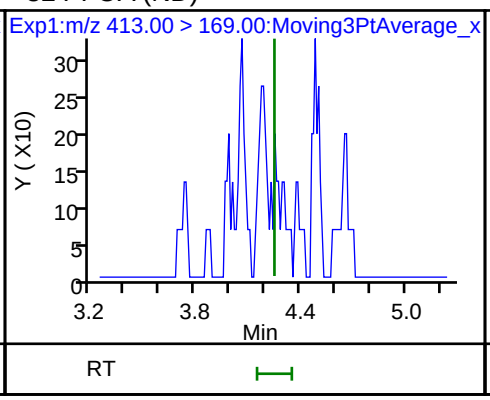

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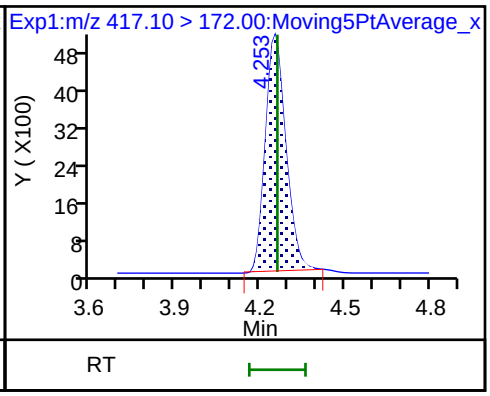
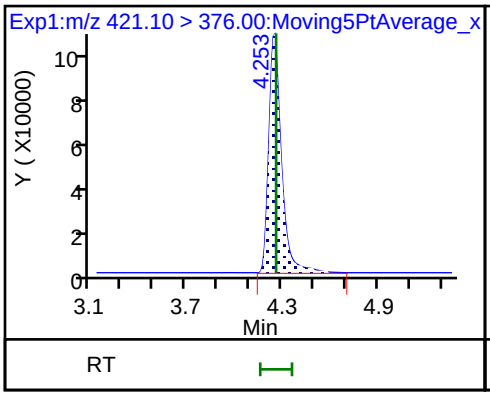
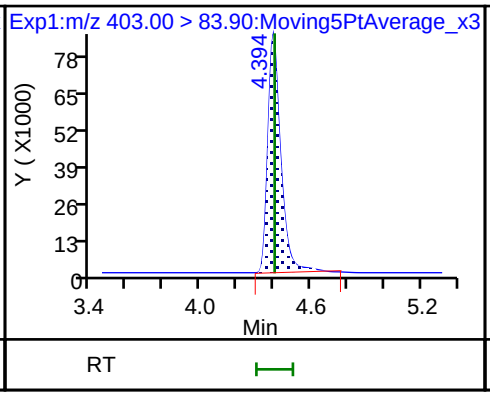


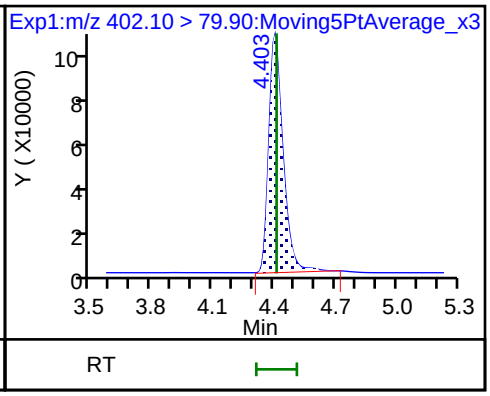
D 31 13C8 PFOA



* 35 18O2 PFHxS



D 36 13C3 PFHxS



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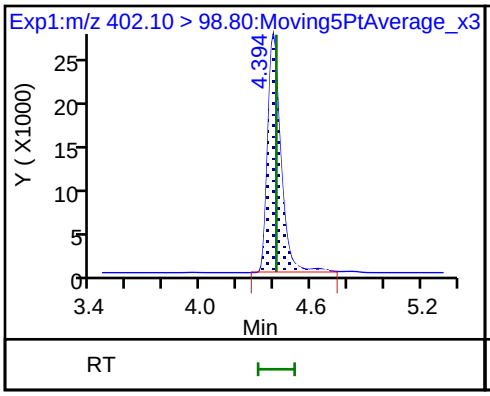

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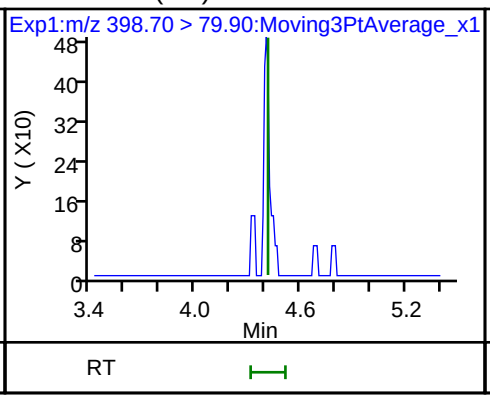

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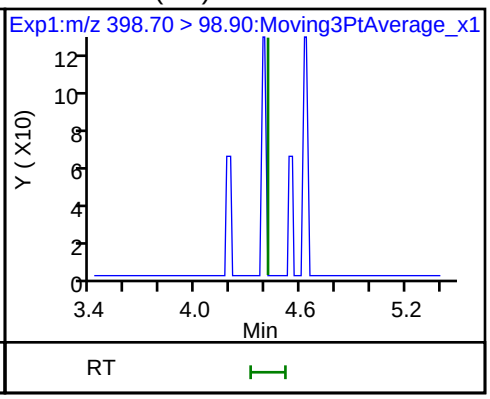
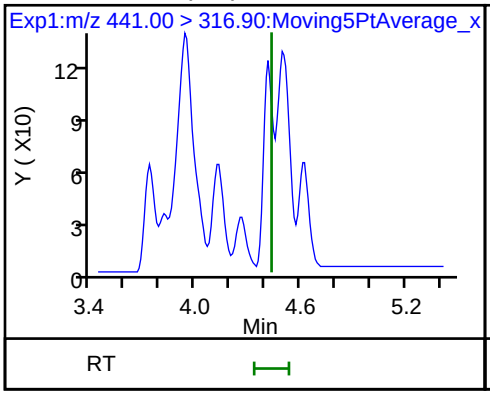
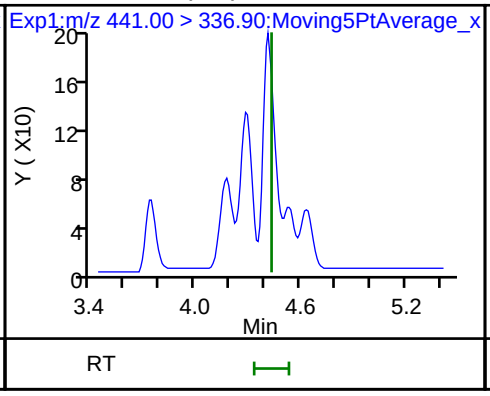


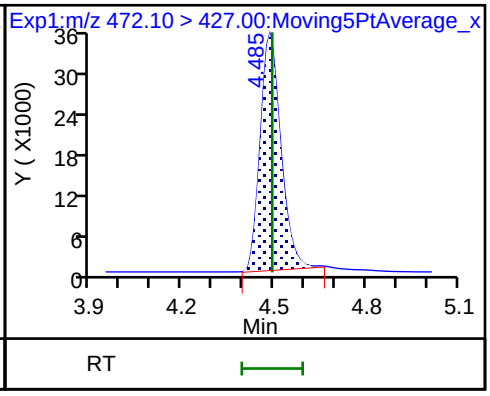
33 7:3 FTCA (ND)



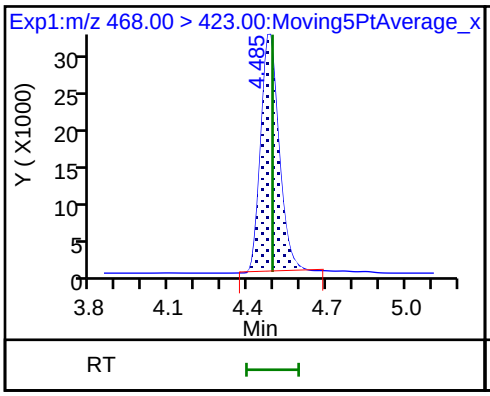
33 7:3 FTCA (ND)



D 38 13C9 PFNA



* 37 13C5 PFNA



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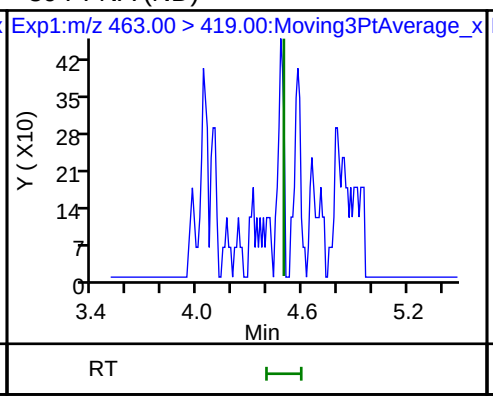

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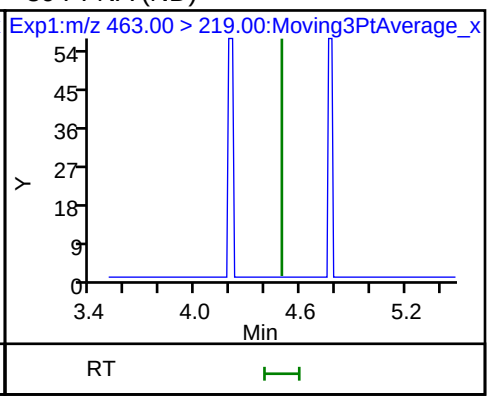
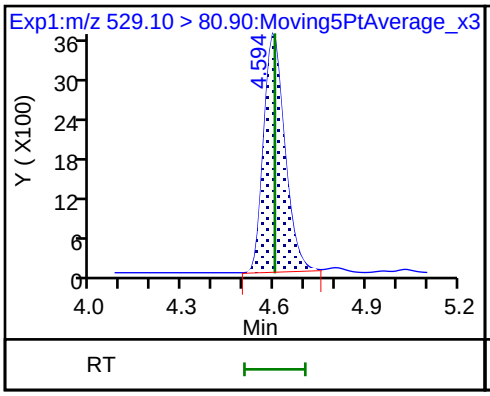


D 41 13C2-8:2FTS



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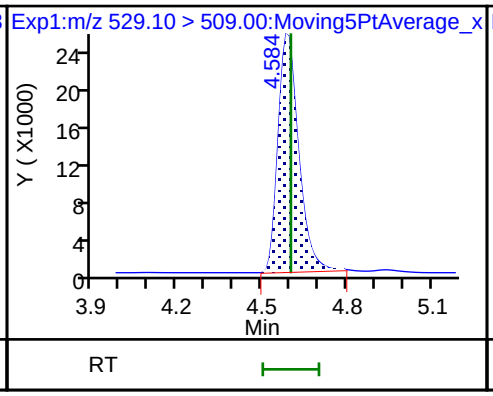

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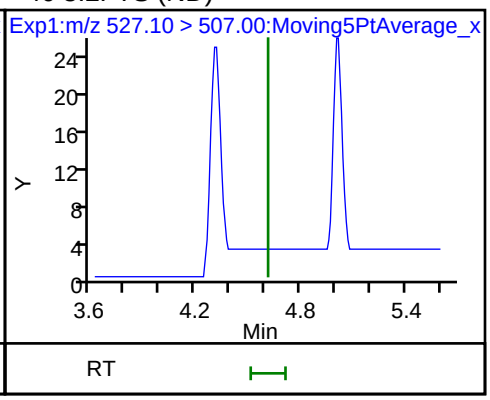

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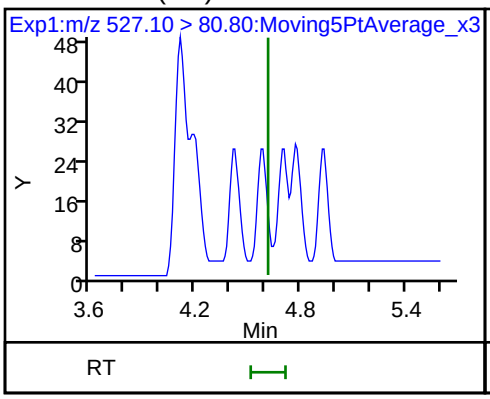
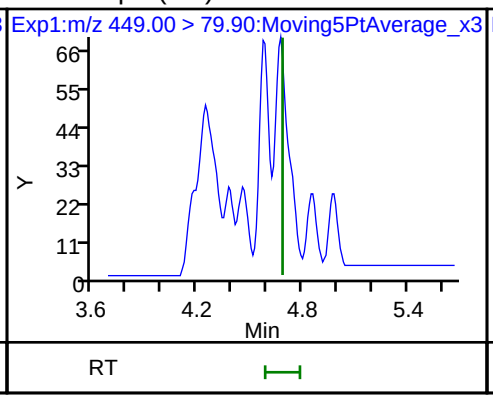


42 PFHpS (ND)



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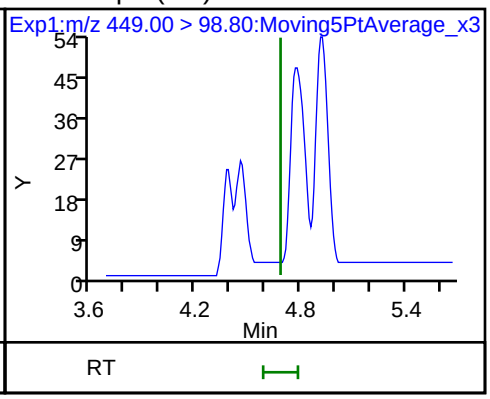
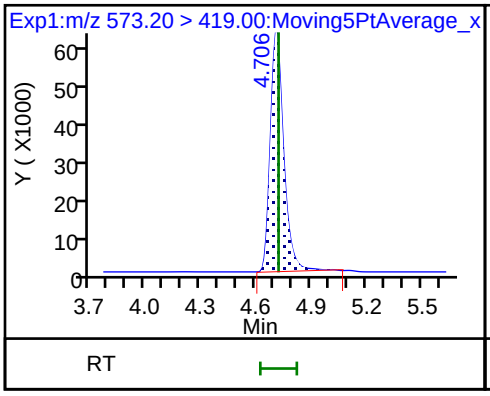


D 44 d3-NMeFOSAA



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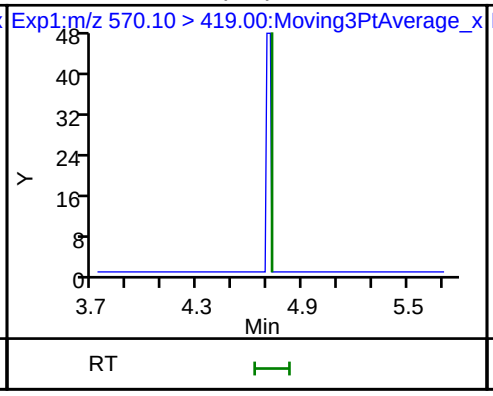

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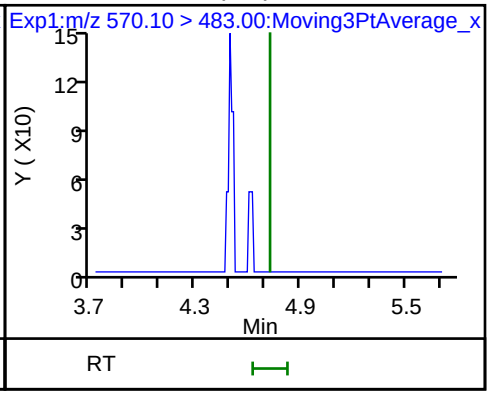
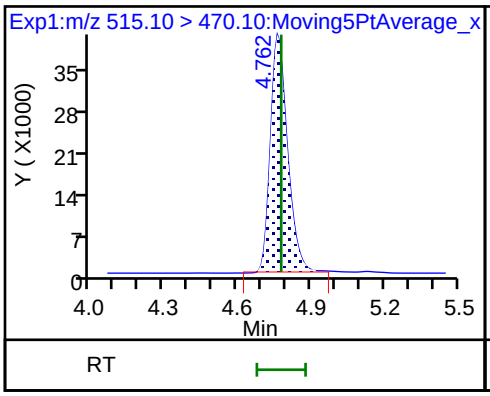
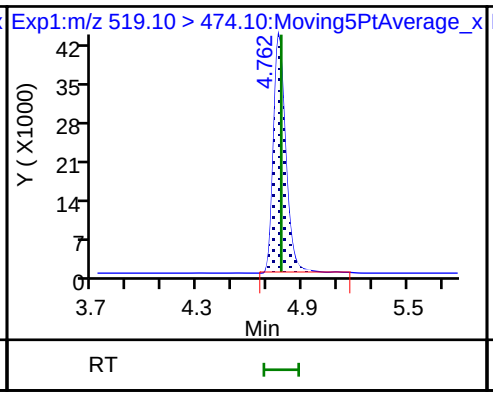


* 46 13C2 PFDA



D 47 13C6 PFDA



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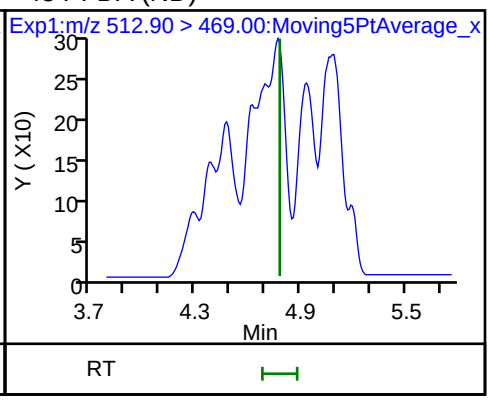

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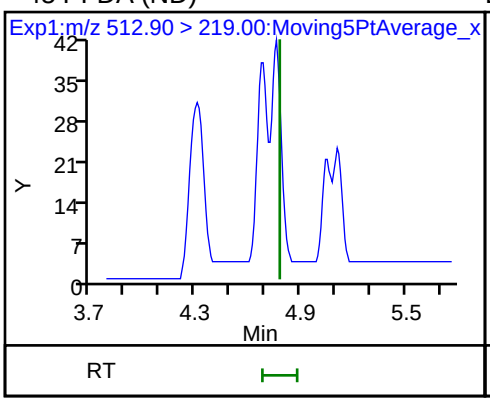
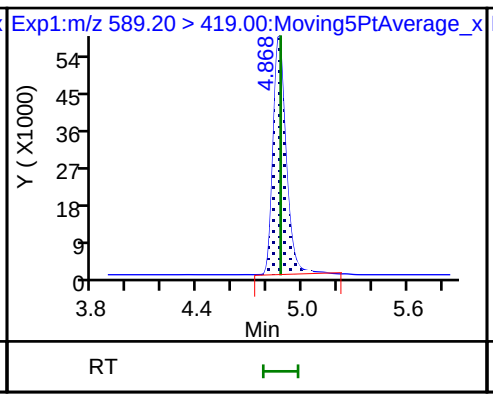


D 49 d5-NEtFOSAA



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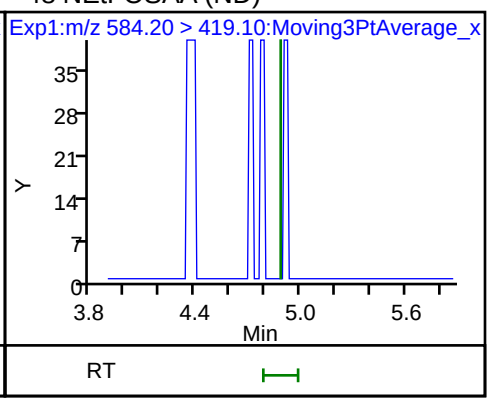

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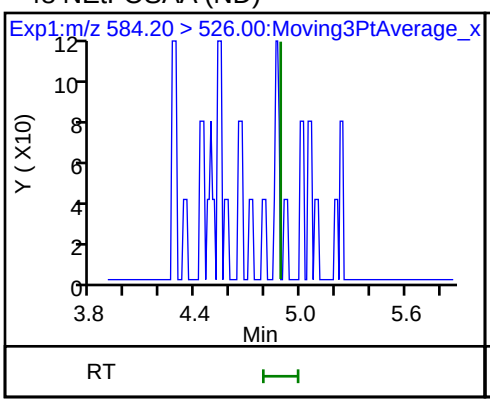
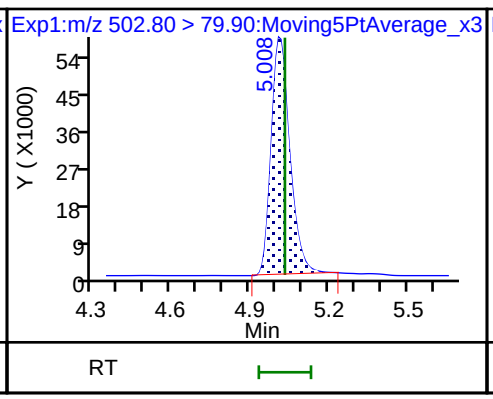


* 52 13C4 PFOS



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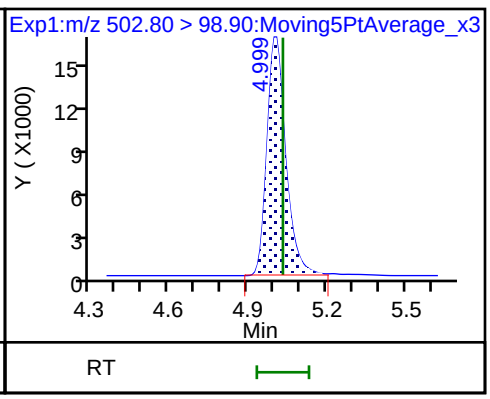
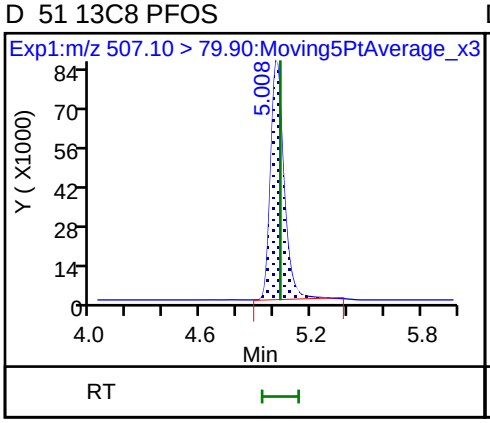
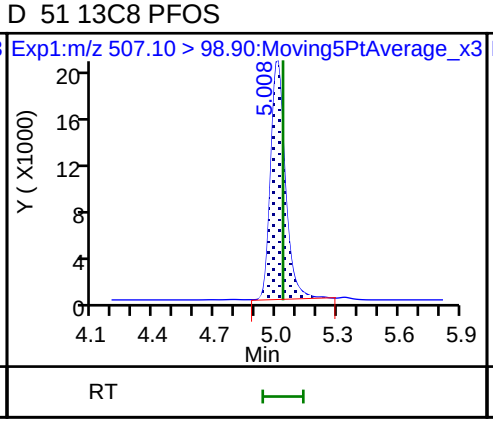


D 51 13C8 PFOS



D 51 13C8 PFOS



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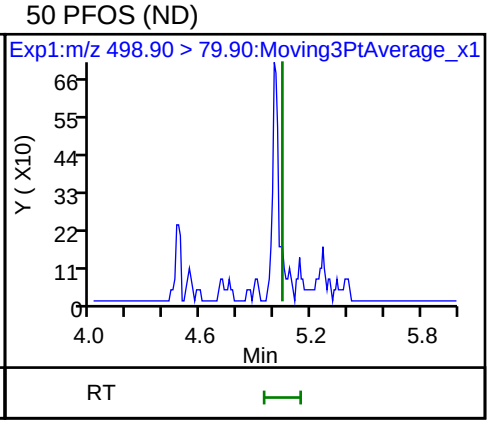

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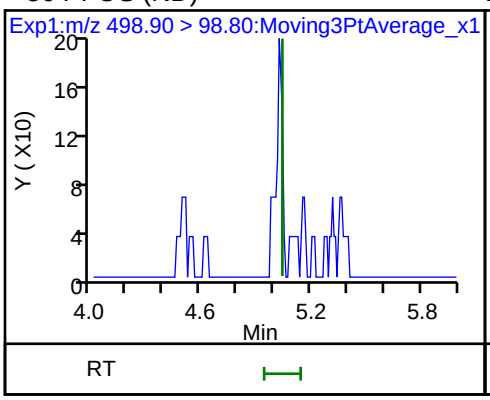
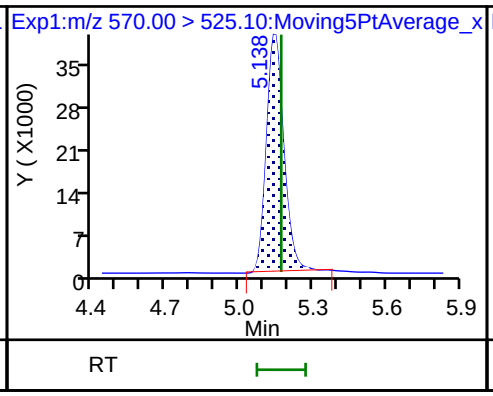


D 54 13C7 PFUnA



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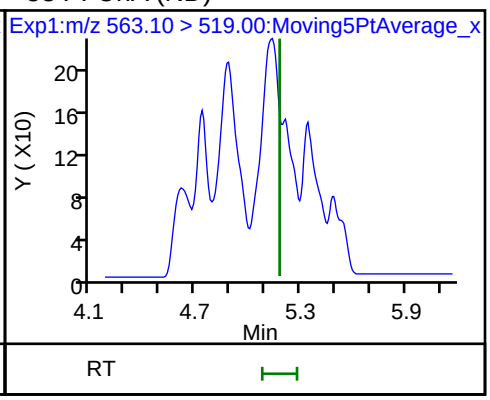

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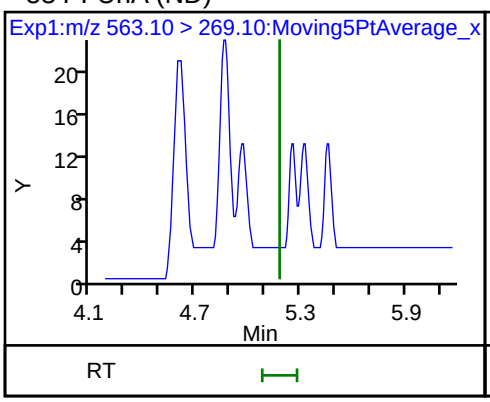

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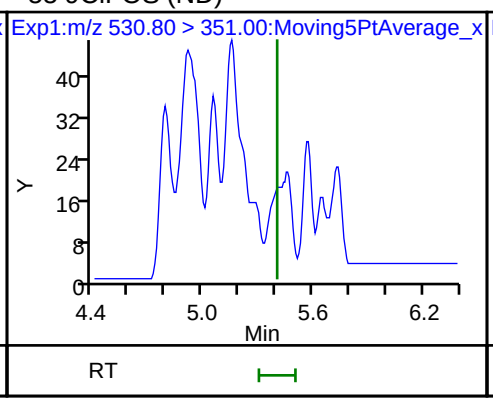

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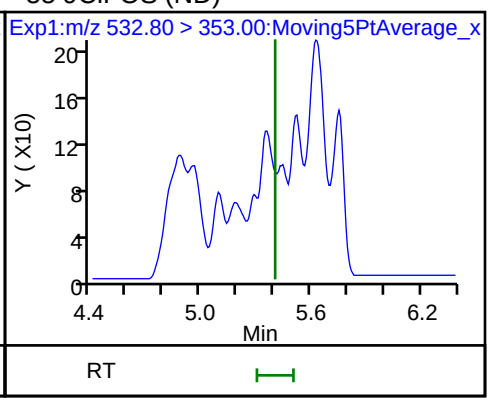

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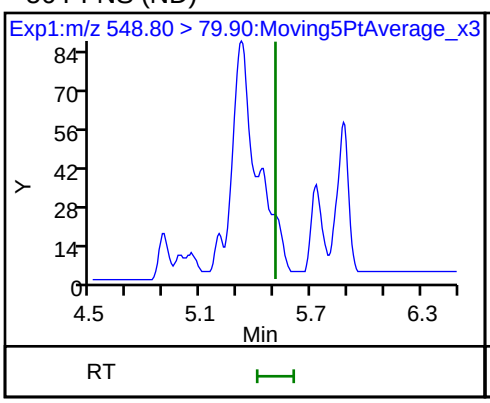

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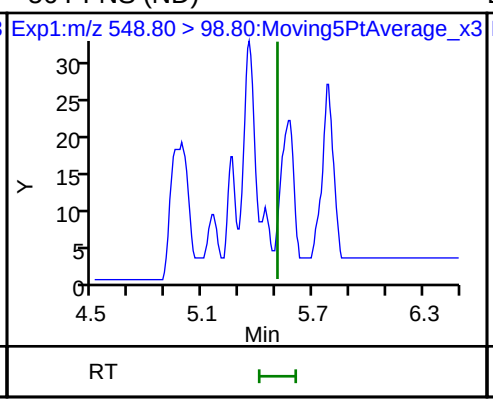
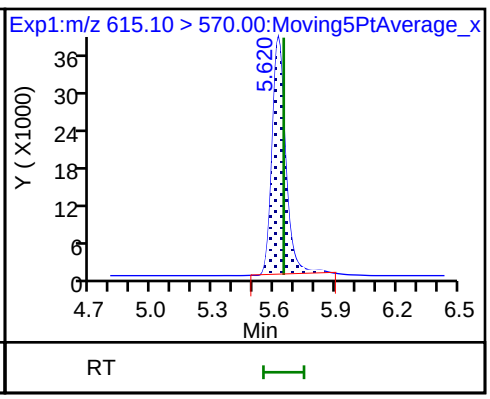


D 58 PFDoDA



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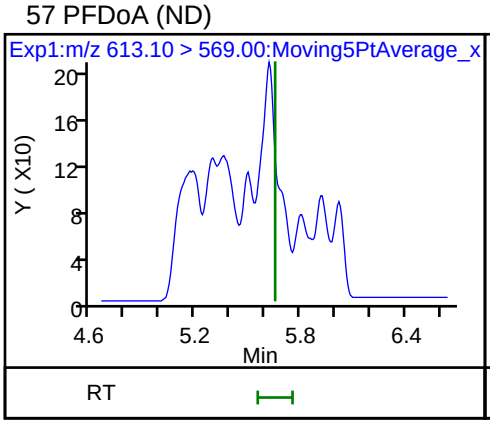

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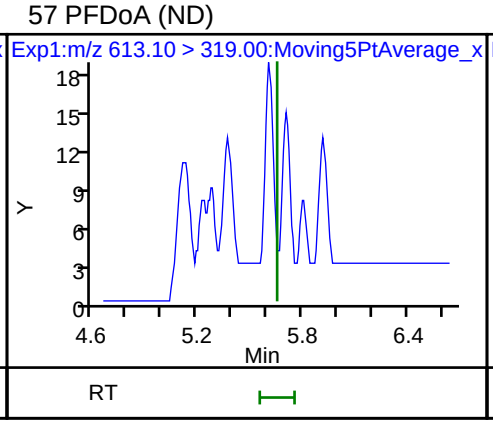

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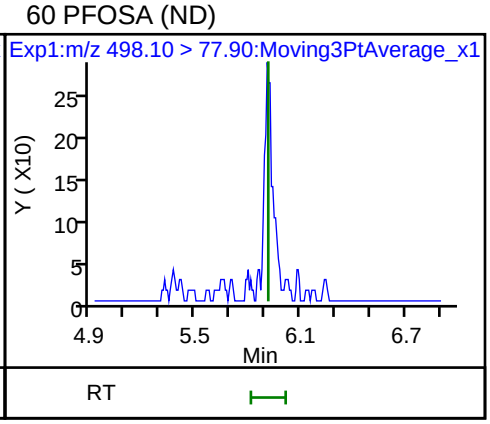

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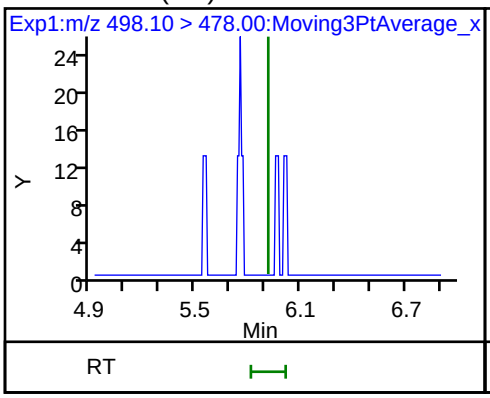
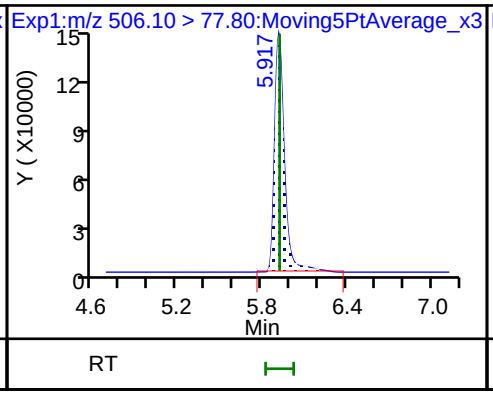
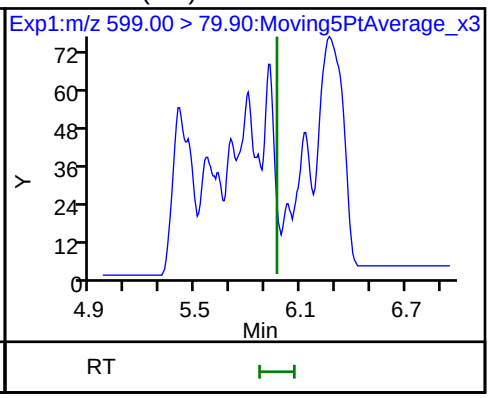


D 59 13C8 FOSA



61 PFDS (ND)



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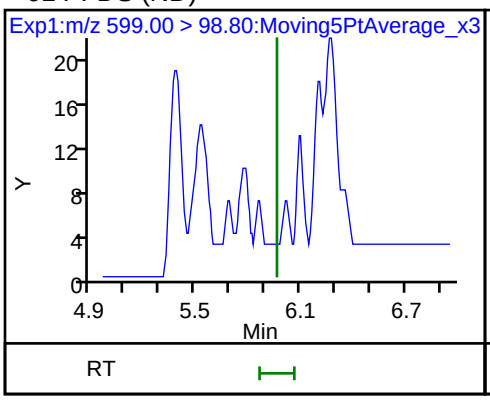

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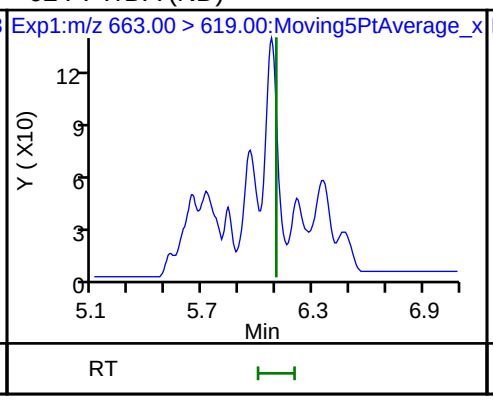

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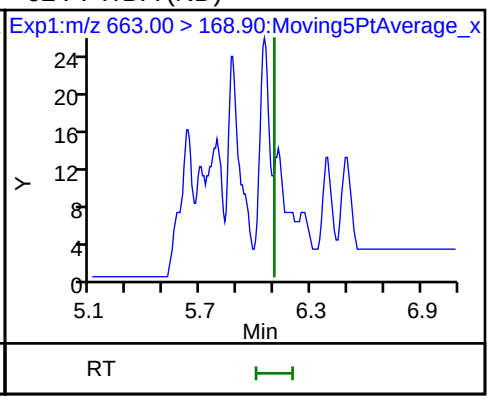

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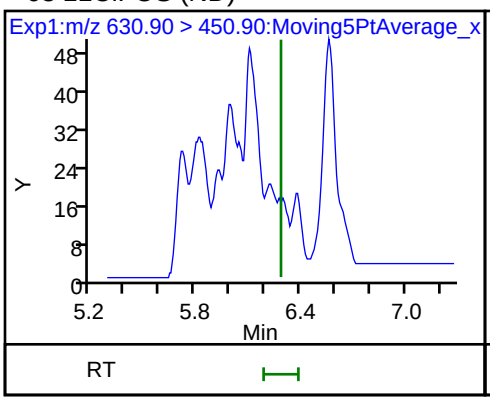
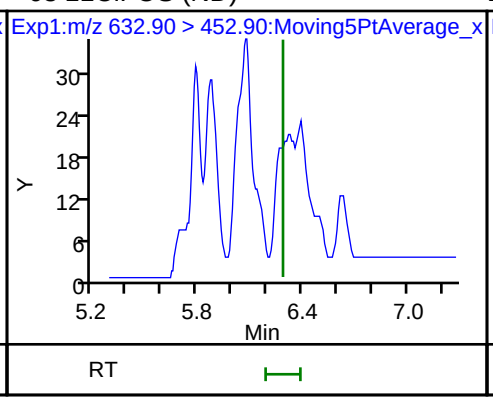
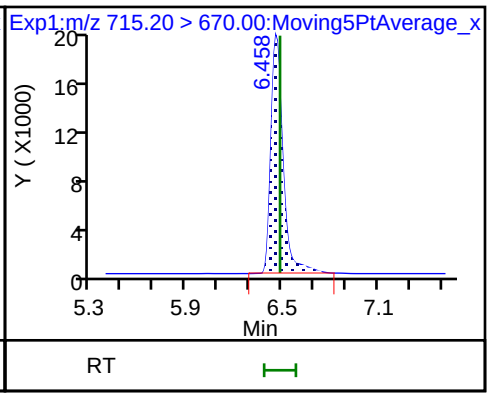


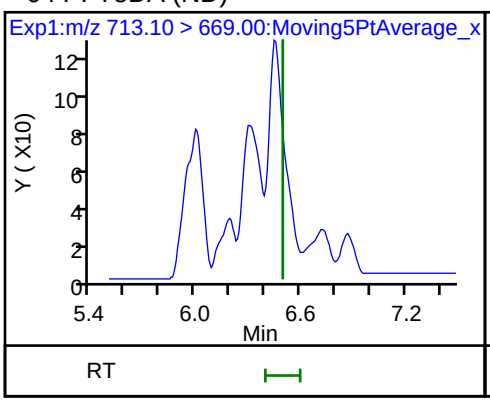
63 11ClFOS (ND)



D 65 13C2 PFTeDA



64 PFTeDA (ND)



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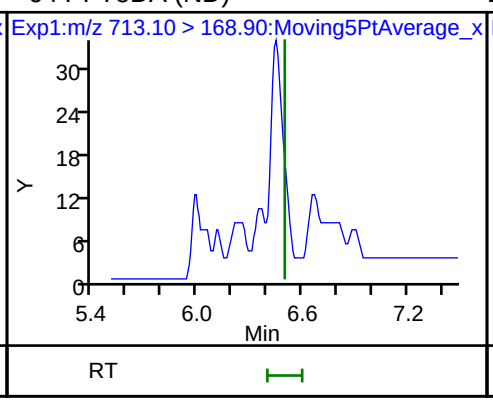
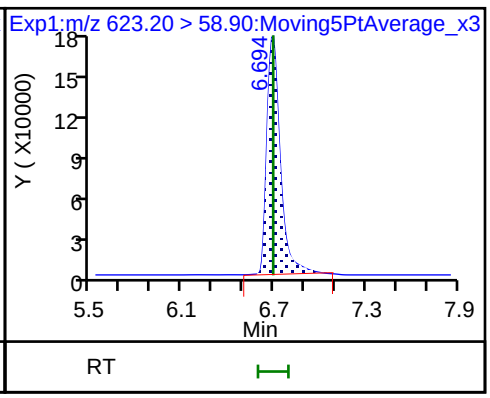
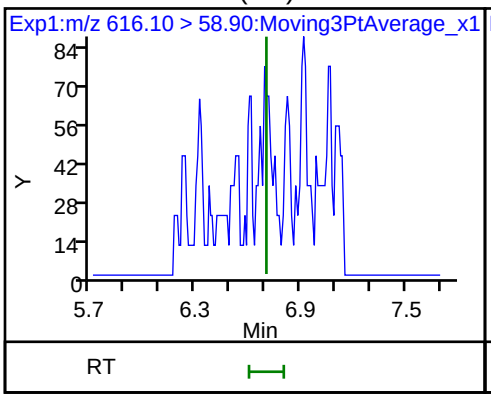


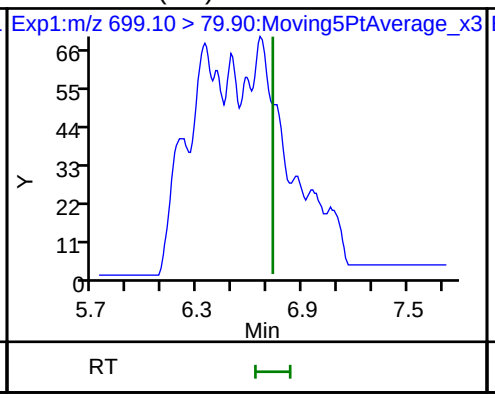
D 67 d7-N-Me-FOSE



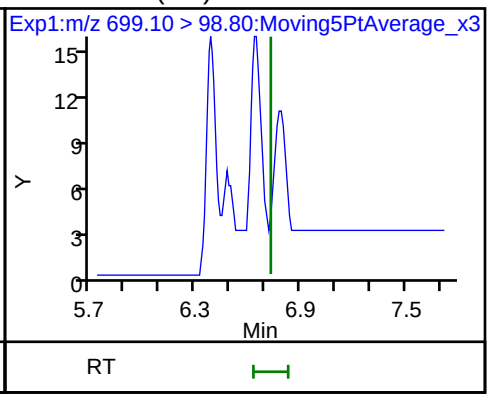
68 N-MeFOSE-M (ND)



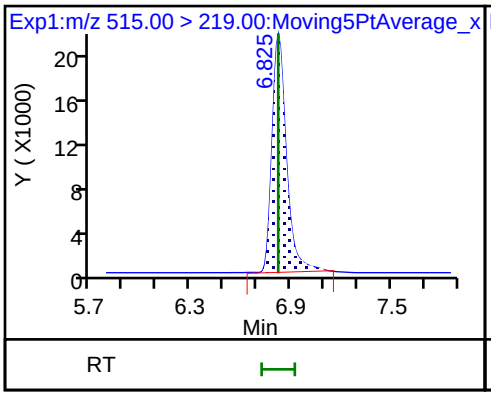
66 PFDoS (ND)



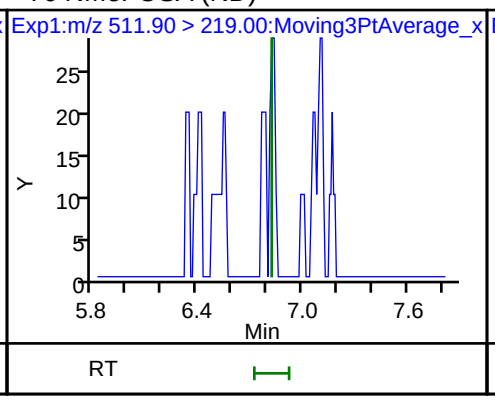
66 PFDoS (ND)



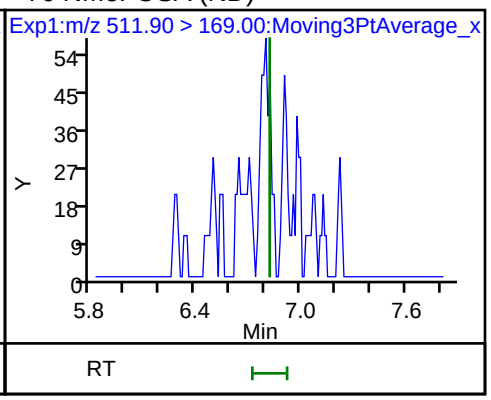
D 69 d3-NMePFOSA



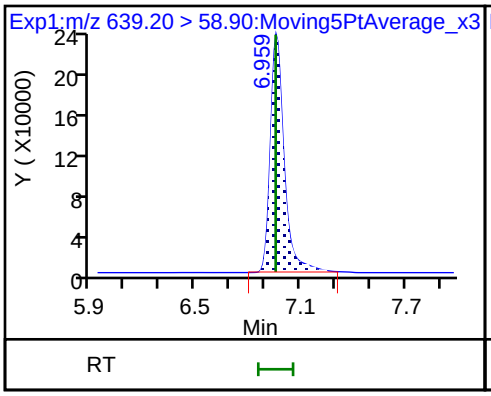
70 NMeFOSA (ND)



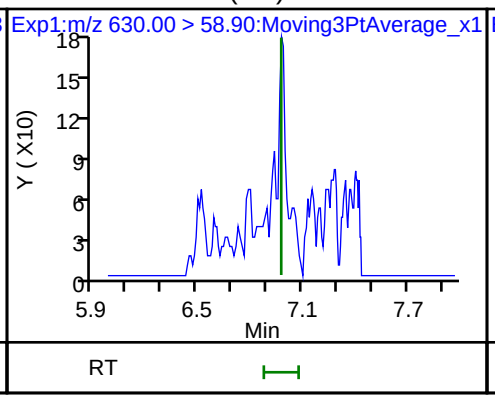
70 NMeFOSA (ND)



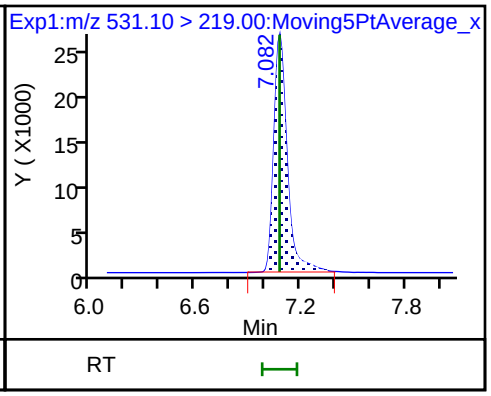
D 71 d9-N-EtFOSE



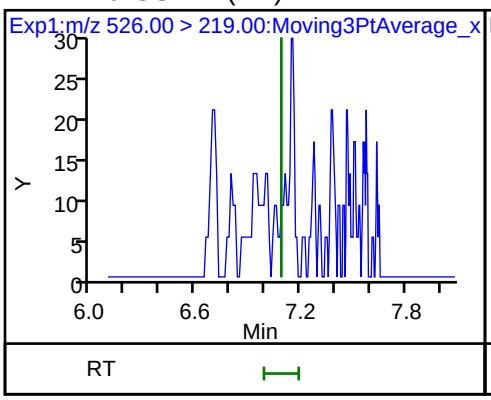
72 N-EtFOSE-M (ND)



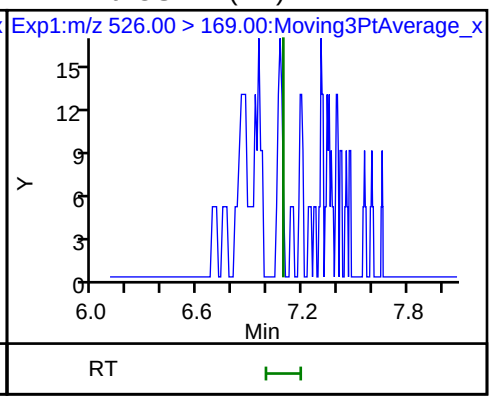
D 73 d5-NEtPFOSA



74 N-EtFOSA-M (ND)



74 N-EtFOSA-M (ND)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

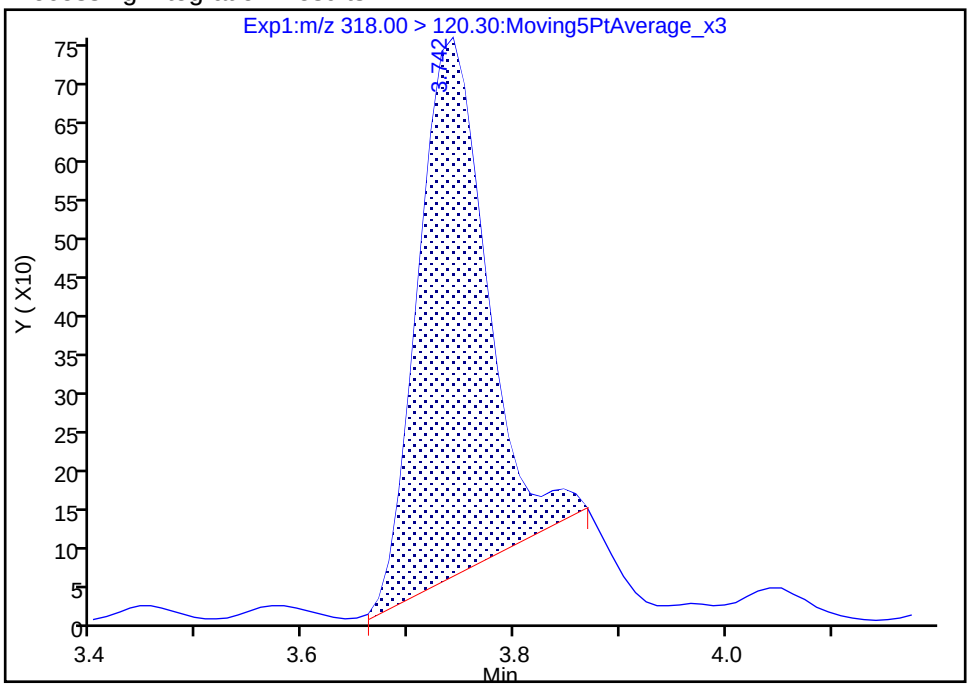
Data File:	\\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-60.d				
Injection Date:	08-Aug-2023 23:24:31	Instrument ID:	30729		
Lims ID:	CCB				
Client ID:					
Operator ID:	US19_USR_INS20263	ALS Bottle#:	20001	Worklist Smp#:	55
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

D 14 13C5 PFHxA, CAS: STL02577

Signal: 2

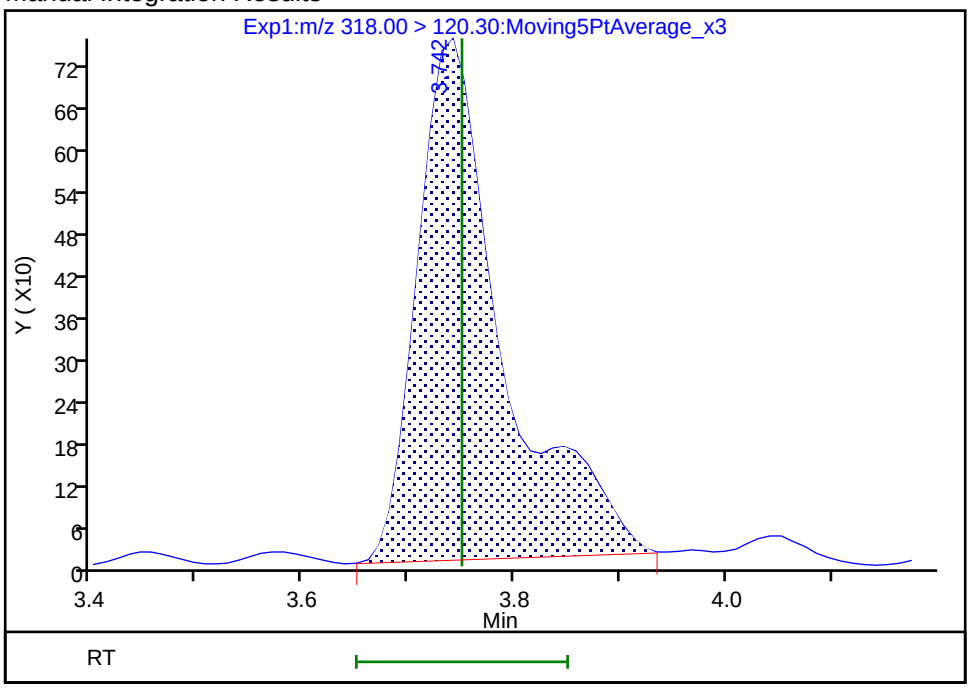
Processing Integration Results

RT: 3.74
Area: 3171
Amount: 2.832590
Amount Units: ng/ml



Manual Integration Results

RT: 3.74
Area: 4169
Amount: 2.832590
Amount Units: ng/ml



Reviewer: QY4X, 09-Aug-2023 08:17:21 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 410-405691/67

Matrix: Water Lab File ID: 23AUG08-72.d

Analysis Method: 1633 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 0(mL) Date Analyzed: 08/09/2023 02:01

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.025	U	0.10	0.025
355-46-4	Perfluorohexanesulfonic acid	0.025	U	0.10	0.025
2058-94-8	Perfluoroundecanoic acid	0.025	U	0.10	0.025
335-67-1	Perfluorooctanoic acid	0.025	U	0.10	0.025
335-77-3	Perfluorodecanesulfonic acid	0.025	U	0.10	0.025
376-06-7	Perfluorotetradecanoic acid	0.025	U	0.10	0.025
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.025	U	0.10	0.025
31506-32-8	NMeFOSA	0.025	U	0.10	0.025
812-70-4	7:3 FTCA	0.025	U	0.10	0.025
335-76-2	Perfluorodecanoic acid	0.025	U	0.10	0.025
72629-94-8	Perfluorotridecanoic acid	0.025	U	0.10	0.025
113507-82-7	PFEESA	0.025	U	0.10	0.025
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	0.025	U	0.10	0.025
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	0.025	U	0.10	0.025
375-95-1	Perfluorononanoic acid	0.025	U	0.10	0.025
13252-13-6	HFPO-DA	0.025	U	0.10	0.025
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	0.025	U	0.10	0.025
2706-91-4	Perfluoropentanesulfonic acid	0.025	U	0.10	0.025
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	0.025	U	0.10	0.025
68259-12-1	Perfluorononanesulfonic acid	0.025	U	0.10	0.025
375-85-9	Perfluoroheptanoic acid	0.025	U	0.10	0.025
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.025	U	0.10	0.025
1763-23-1	Perfluorooctanesulfonic acid	0.025	U	0.10	0.025
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	0.025	U	0.10	0.025
377-73-1	Perfluoro-3-methoxypropanoic acid	0.025	U	0.10	0.025
375-22-4	Perfluorobutanoic acid	0.025	U	0.10	0.025
2991-50-6	NEtFOSAA	0.025	U	0.10	0.025

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 410-405691/67

Matrix: Water Lab File ID: 23AUG08-72.d

Analysis Method: 1633 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 0(mL) Date Analyzed: 08/09/2023 02:01

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-55-1	Perfluorododecanoic acid	0.025	U	0.10	0.025
307-24-4	Perfluorohexanoic acid	0.025	U	0.10	0.025
863090-89-5	Perfluoro(4-methoxybutanoic acid)	0.025	U	0.10	0.025
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	0.025	U	0.10	0.025
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.025	U	0.10	0.025
2706-90-3	Perfluoropentanoic acid	0.025	U	0.10	0.025
914637-49-3	5:3 FTCA	0.025	U	0.10	0.025
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	0.025	U	0.10	0.025
754-91-6	Perfluorooctanesulfonamide	0.025	U	0.10	0.025
356-02-5	3:3 FTCA	0.025	U	0.10	0.025
2355-31-9	NMeFOSAA	0.025	U	0.10	0.025
375-73-5	Perfluorobutanesulfonic acid	0.025	U	0.10	0.025
375-92-8	Perfluoroheptanesulfonic acid	0.025	U	0.10	0.025

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: Lab Sample ID: CCB 410-405691/67

Matrix: Water Lab File ID: 23AUG08-72.d

Analysis Method: 1633 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 0(mL) Date Analyzed: 08/09/2023 02:01

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691 Units: ng/mL

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	104		10-130
STL01893	13C5 PFPeA	114		35-150
STL02577	13C5 PFHxA	103		55-150
STL01892	13C4 PFHpA	105		55-150
STL01052	13C8 PFOA	87.1		60-140
STL02578	13C9 PFNA	114		55-140
STL02579	13C6 PFDA	114		50-140
STL02580	13C7 PFUnA	113		30-140
STL02703	13C2-PFDoDA	108		10-150
STL02116	13C2 PFTeDA	108		10-130
STL02337	13C3 PFBS	132		55-150
STL02581	13C3 PFHxS	109		55-150
STL01054	13C8 PFOS	99.3		45-140
STL01056	13C8 FOSA	113		30-130
STL02118	d3-NMeFOSAA	101		45-200
STL02117	d5-NEtFOSAA	102		10-200
STL02395	M2-4:2 FTS	95.4		60-200
STL02279	M2-6:2 FTS	104	I	60-200
STL02280	M2-8:2 FTS	107		50-200
STL02255	13C3 HFPO-DA	112		25-160
STL02277	d7-N-MeFOSE-M	100		10-150
STL02278	d9-N-EtFOSE-M	102		10-150
STL02704	d5-NEtPFOSA	99.6		10-130
STL02705	d3-NMePFOSA	98.6		15-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-72.d
Lims ID: CCB
Client ID:
Sample Type: CCB
Inject. Date: 09-Aug-2023 02:01:28 ALS Bottle#: 20001 Worklist Smp#: 67
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCB
Misc. Info.: Plate: 1 Rack: 1 410-0090889-067
Operator ID: US19_USR_INS20263 Instrument ID: 30729

Method: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\PFAS_30729_1633.m
Limit Group: LC - 1633 ICAL
Last Update: 09-Aug-2023 10:02:19 Calib Date: 05-Aug-2023 11:25:28
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-11.d

Column 1 : Det: EXP1
Process Host: CTX1649

First Level Reviewer: QY4X Date: 09-Aug-2023 08:20:05
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4-PFBA										
216.80 > 171.90	2.924	2.932	-0.008	1.000	1374723	10.4		104	81828	
* 3 13C3PFBA										
216.00 > 172.00	2.924	2.932	-0.008		814970	5.00			1713	
D 7 13C5 PFPeA										
268.30 > 223.00	3.432	3.444	-0.012	0.918	409098	5.68		114	25330	
D 10 13C2-4:2FTS										
329.10 > 80.90	3.624	3.638	-0.014	0.826	59519	4.47	Target=0.35	95.4	2315	
329.10 > 309.00	3.613	3.638	-0.025	0.823	165488		0.36(0.18-0.53)	95.4	7624	
D 14 13C5 PFHxA										
318.00 > 273.00	3.738	3.750	-0.012	1.000	45061	2.57	Target=15.34	103	3025	
318.00 > 120.30	3.728	3.750	-0.022	0.997	2780		16.21(7.67-23.01)	103	203	
* 15 13C2 PFHxA										
315.10 > 270.00	3.738	3.750	-0.012		250714	2.50	Target=103.53		15916	
315.10 > 119.40	3.738	3.750	-0.012		2413		103.90(51.76-155.29)		131	
D 18 13C3 PFBS										
302.10 > 79.90	3.843	3.856	-0.013	0.876	576869	3.07	Target=6.99	132	36173	
302.10 > 98.90	3.832	3.856	-0.024	0.873	64385		8.96(3.50-10.49)	132	4118	
21 TCDCA										
498.10 > 80.00	3.952	3.867	0.085	0.790	542	0.003144			340	
D 20 13C3 HFPO-DA										
286.90 > 168.90	3.854	3.867	-0.013	1.031	1243186	11.2	Target=29.00	112	75230	
286.90 > 184.90	3.854	3.867	-0.013	1.031	37034		33.57(14.50-43.50)	112	2389	
D 25 13C4 PFHpA										
367.10 > 322.00	4.006	4.018	-0.012	1.072	554236	2.64		105	34232	
D 29 13C2-6:2FTS										R
429.10 > 80.90	4.116	4.129	-0.013	0.938	33864	4.93	Target=0.12	104	2111	R
429.10 > 409.00	4.105	4.129	-0.024	0.935	177954		0.19(0.06-0.18)	104	8390	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 30 13C4 PFOA										
417.10 > 172.00	4.238	4.261	-0.023		28979	2.50			1934	
D 31 13C8 PFOA										
421.10 > 376.00	4.238	4.261	-0.023	1.000	599757	2.18		87.1	37542	
* 35 18O2 PFHxS										
403.00 > 83.90	4.389	4.401	-0.012		429407	2.37			28577	
D 36 13C3 PFHxS										
402.10 > 79.90	4.399	4.411	-0.012	1.002	526572	2.58	Target=3.90	109	35489	
402.10 > 98.80	4.389	4.411	-0.022	1.000	143216		3.68(1.95-5.85)	109	9778	
D 38 13C9 PFNA										
472.10 > 427.00	4.480	4.493	-0.013	1.002	163188	1.42		114	10707	
* 37 13C5 PFNA										
468.00 > 423.00	4.469	4.493	-0.024		136089	1.25			8937	
D 41 13C2-8:2FTS										
529.10 > 80.90	4.588	4.601	-0.013	1.045	18899	5.15	Target=0.14	107	1341	
529.10 > 509.00	4.578	4.601	-0.023	1.043	133745		0.14(0.07-0.21)	107	8703	
D 44 d3-NMeFOSAA										
573.20 > 419.00	4.700	4.723	-0.023	0.939	306554	5.06		101	19664	
* 46 13C2 PFDA										
515.10 > 470.10	4.757	4.778	-0.021		185598	1.25			9626	
D 47 13C6 PFDA										
519.10 > 474.10	4.757	4.778	-0.021	1.000	212941	1.42		114	14613	
D 49 d5-NEtFOSAA										
589.20 > 419.00	4.854	4.874	-0.020	0.970	288164	5.11		102	11889	
* 52 13C4 PFOS										
502.80 > 79.90	5.003	5.033	-0.030		291974	2.40	Target=4.18		11845	
502.80 > 98.90	4.994	5.033	-0.039		77245		3.78(2.09-6.27)		5343	
D 51 13C8 PFOS										
507.10 > 79.90	5.003	5.033	-0.030	1.000	412835	2.38	Target=3.96	99.3	16667	
507.10 > 98.90	4.994	5.033	-0.039	0.998	105492		3.91(1.98-5.94)	99.3	5615	
D 54 13C7 PFUnA										
570.00 > 525.10	5.132	5.170	-0.038	1.079	194908	1.42		113	9991	
D 58 PFDoDA										
615.10 > 570.00	5.608	5.646	-0.038	1.179	164924	1.35		108	5475	
D 59 13C8 FOSA										
506.10 > 77.80	5.912	5.923	-0.011	1.182	719924	2.83		113	50232	
D 65 13C2 PFTeDA										
715.20 > 670.00	6.452	6.485	-0.033	1.356	93136	1.35		108	6110	
D 67 d7-N-Me-FOSE										
623.20 > 58.90	6.685	6.692	-0.007	1.336	1050224	25.1		100	34752	
D 69 d3-NMePFOSA										
515.00 > 219.00	6.816	6.823	-0.007	1.362	123081	2.46		98.6	6769	
D 71 d9-N-EtFOSE										
639.20 > 58.90	6.952	6.957	-0.005	1.389	1313005	25.6		102	39835	
D 73 d5-NEtPFOSA										
531.10 > 219.00	7.074	7.080	-0.006	1.414	133282	2.49		99.6	8415	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Reagents:

PFC_ST_02171	Amount Added:	5.00	Units: uL	
PFC_ST_02214	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 09-Aug-2023 10:02:38 Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-72.d

Injection Date: 09-Aug-2023 02:01:28 Instrument ID: 30729

Lims ID: CCB

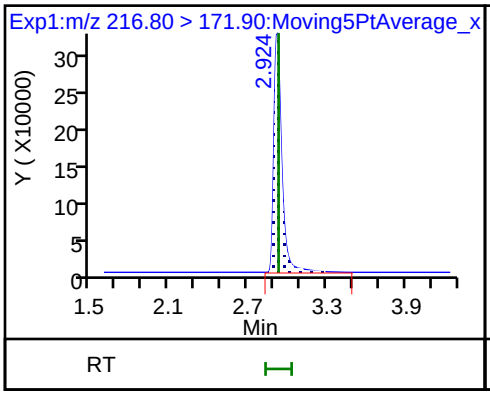
Client ID:

Operator ID: US19_USR_INS20263 ALS Bottle#: 20001 Worklist Smp#: 67

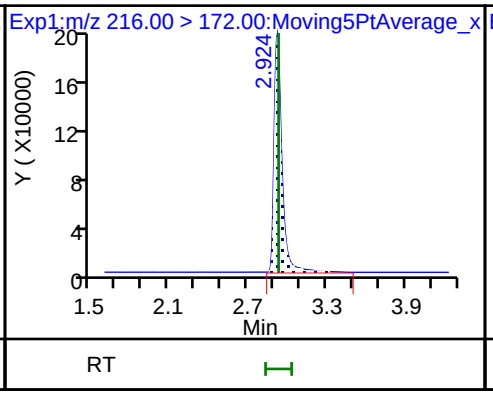
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: PFAS_30729_1633 Limit Group: LC - 1633 ICAL

D 2 13C4-PFBA



* 3 13C3PFBA



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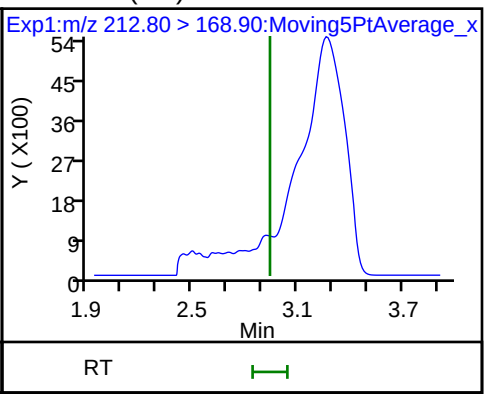

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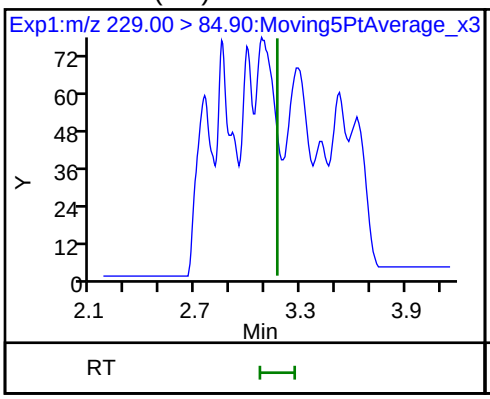

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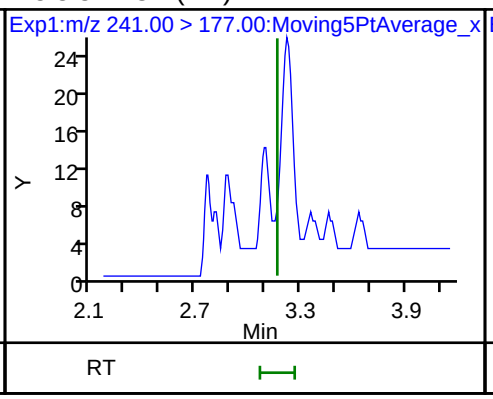

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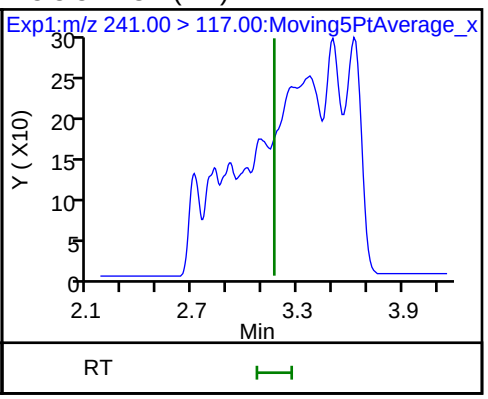

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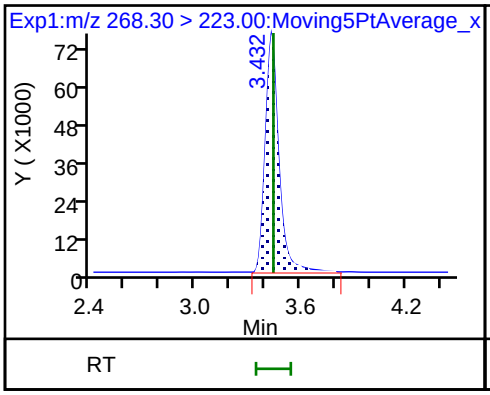

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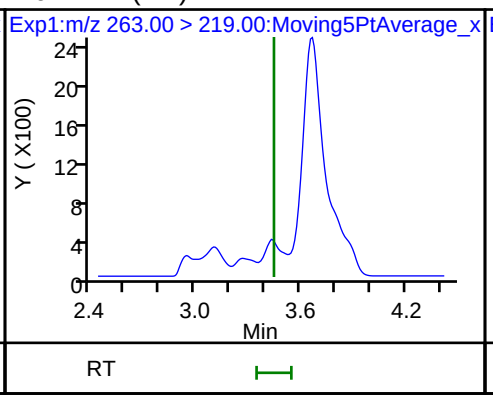

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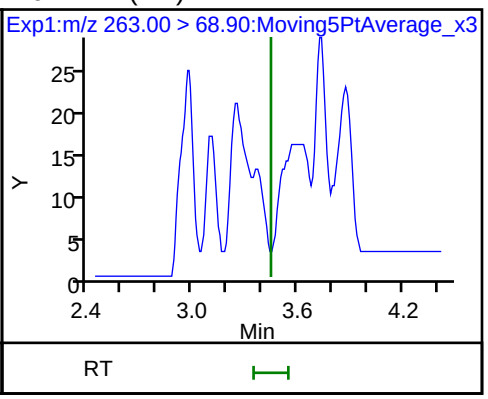

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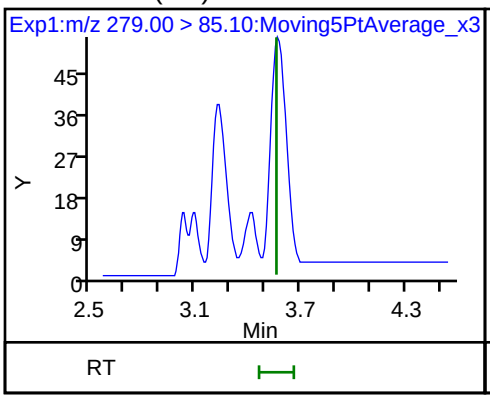

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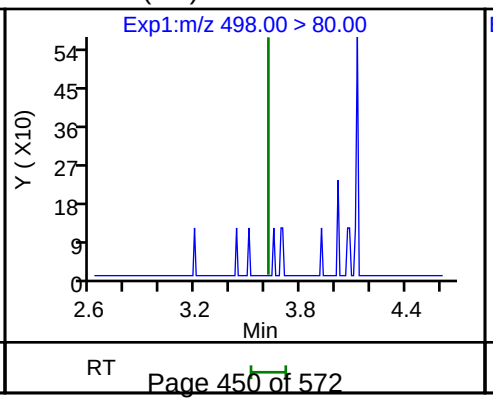
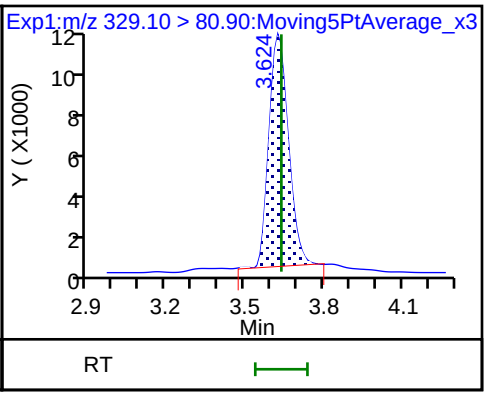


D 10 13C2-4:2FTS



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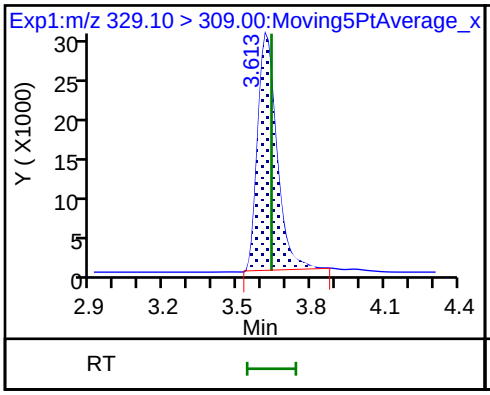

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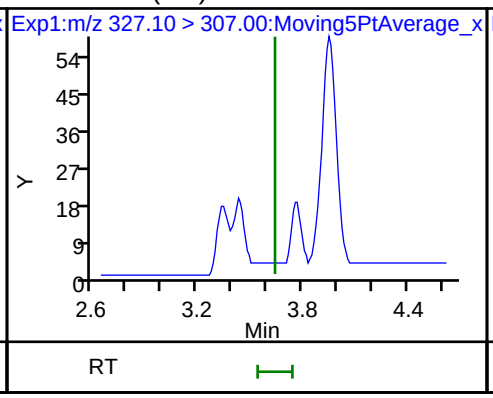

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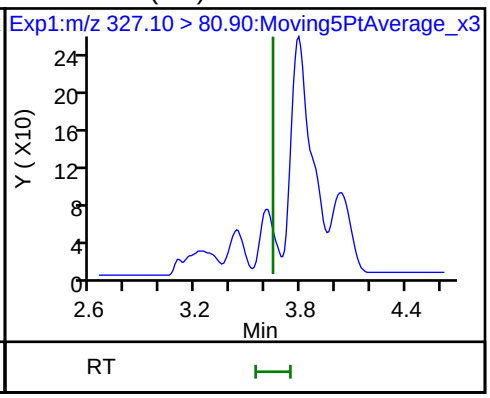

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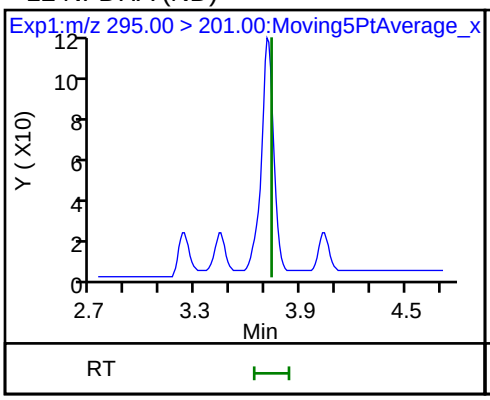

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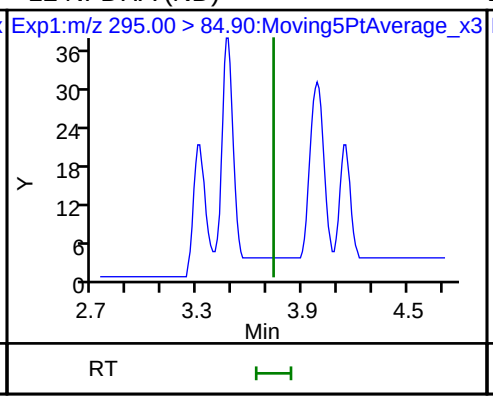

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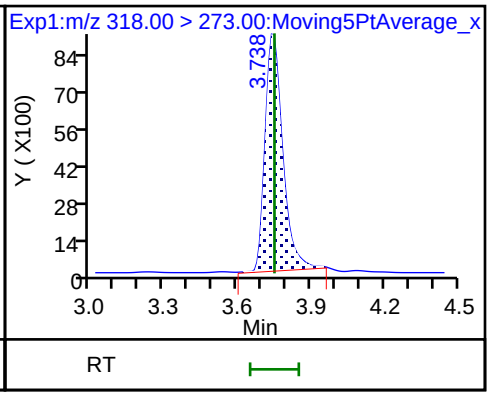

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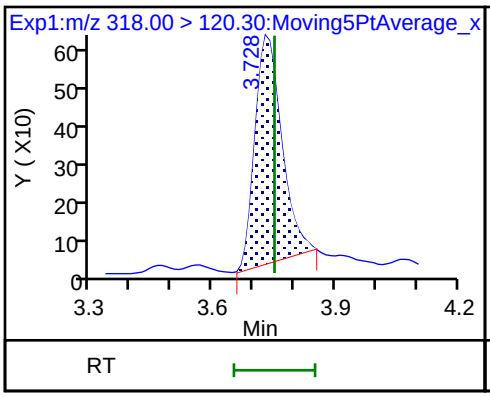

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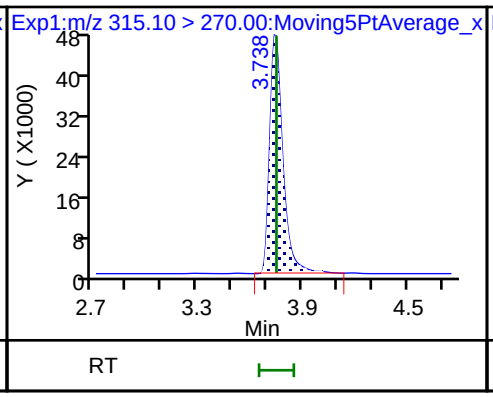

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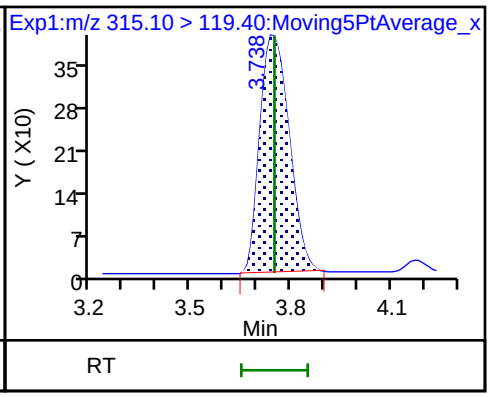

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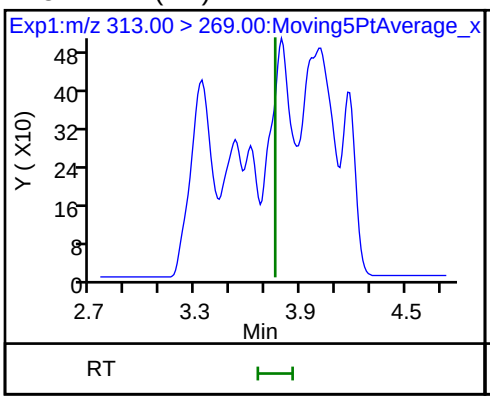

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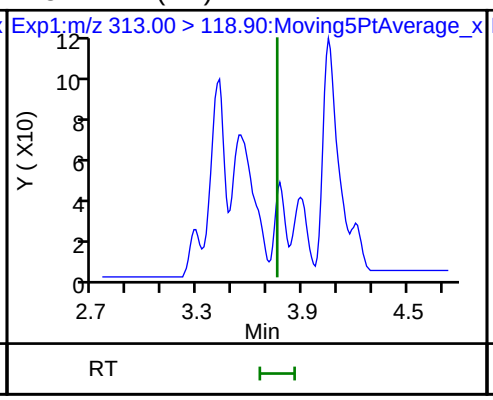
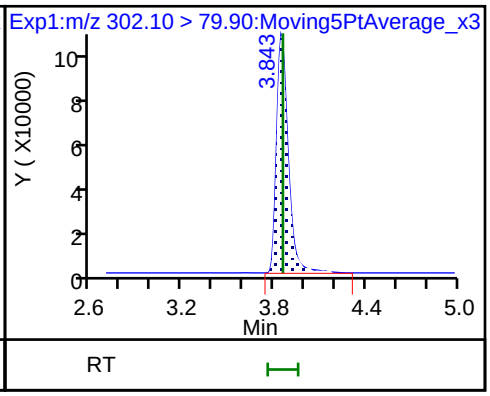


D 18 13C3 PFBS



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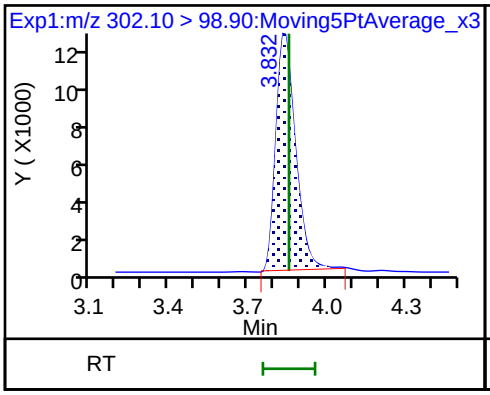

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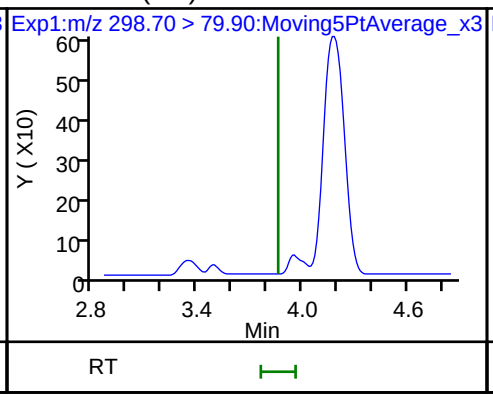

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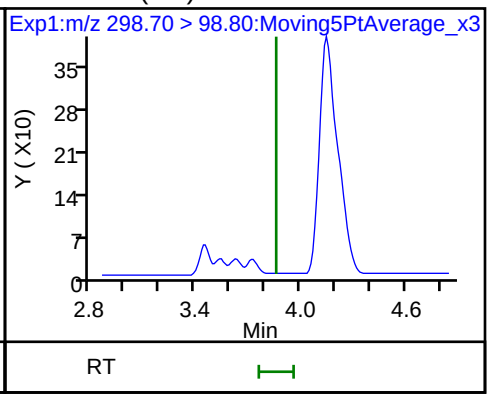

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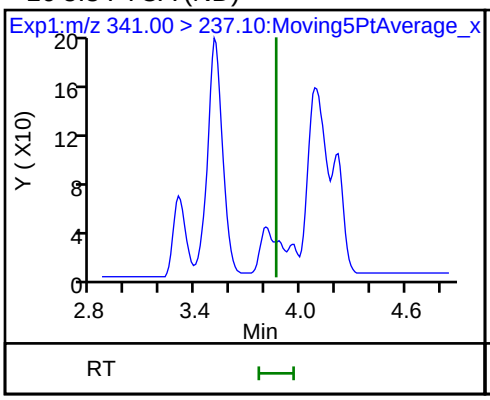

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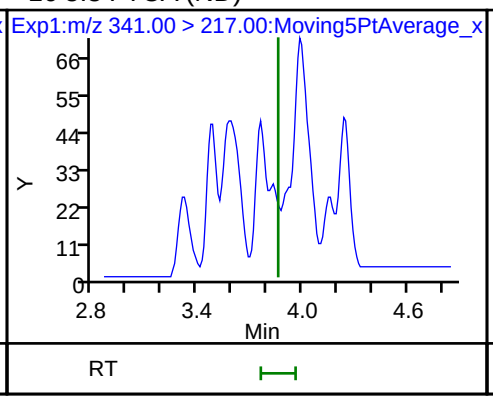

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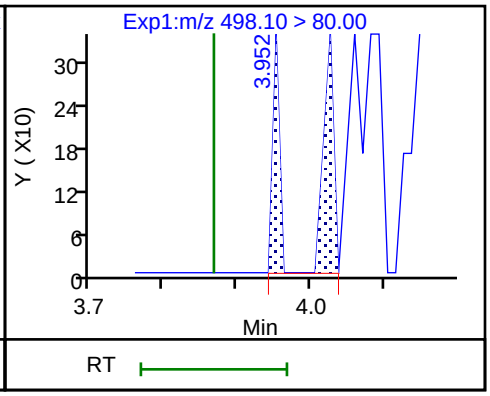

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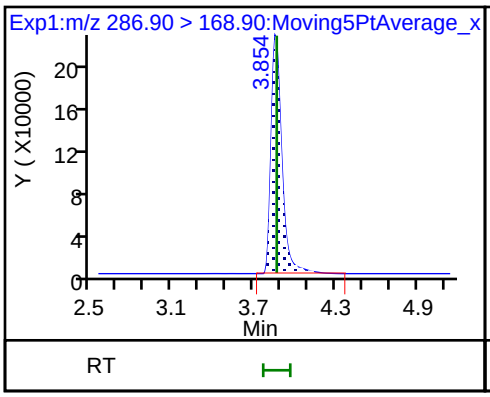

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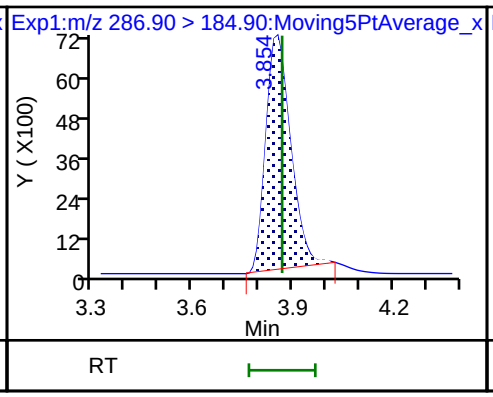

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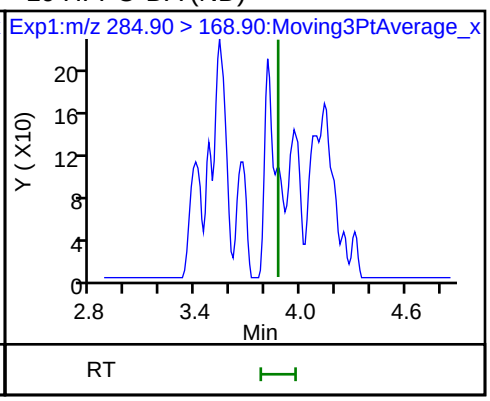

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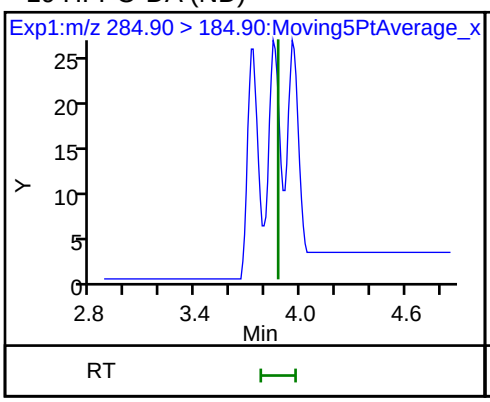

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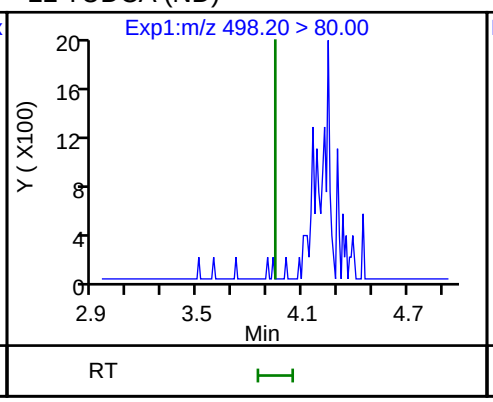

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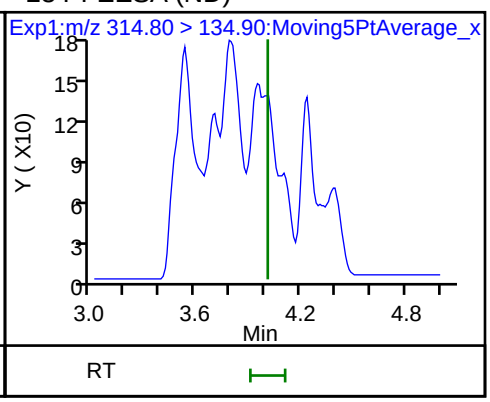

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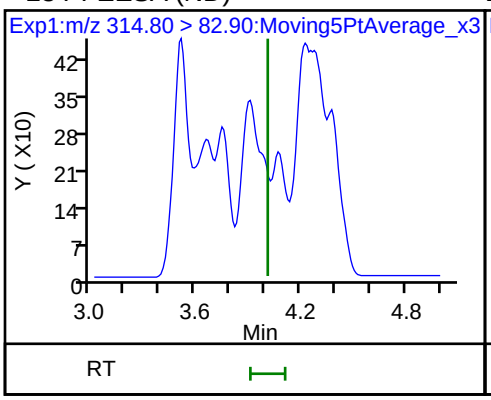
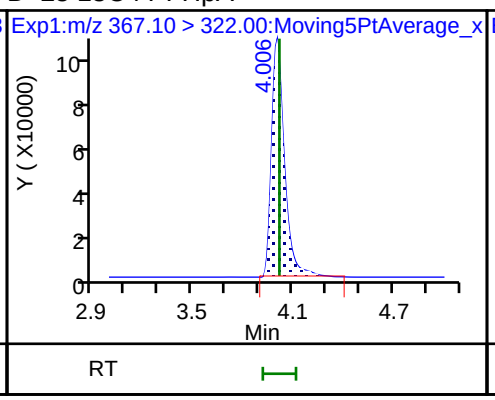


D 25 13C4 PFHpA



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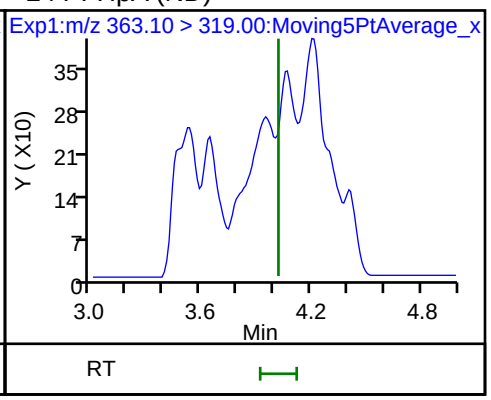

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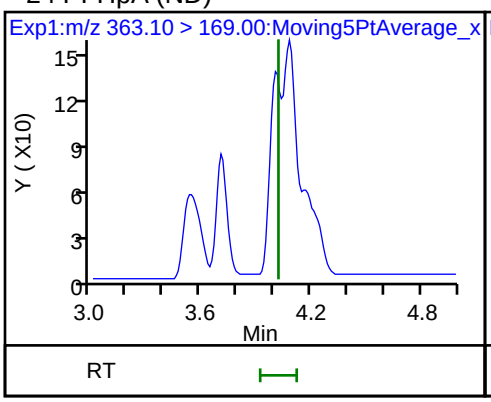

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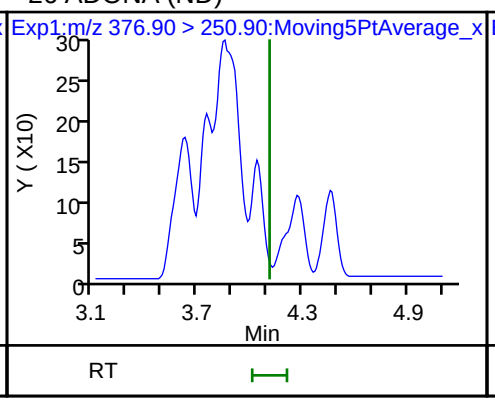

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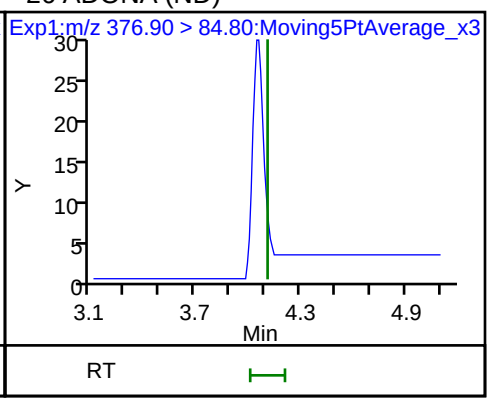
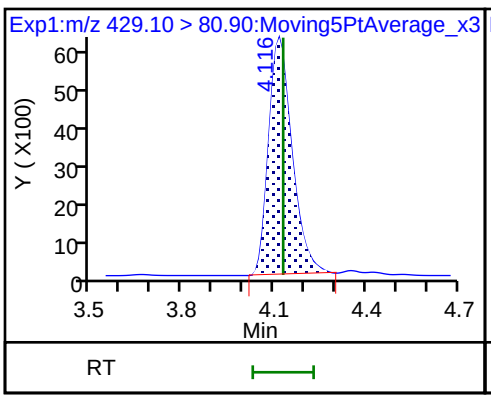


D 29 13C2-6:2FTS



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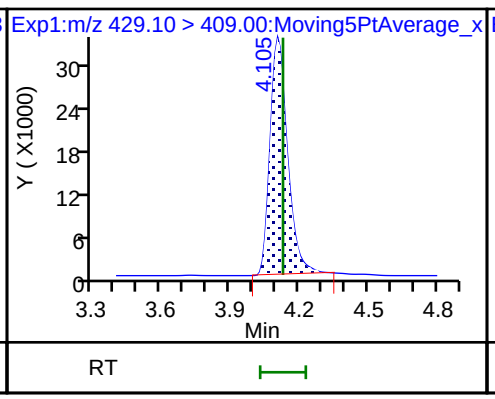

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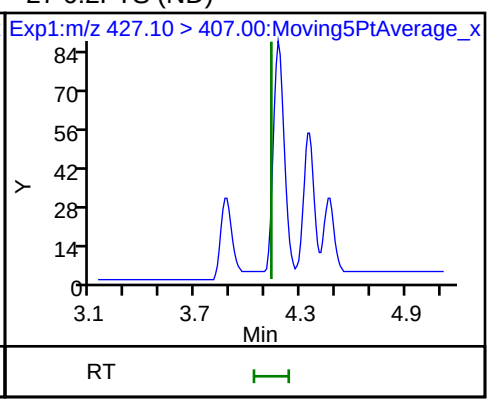

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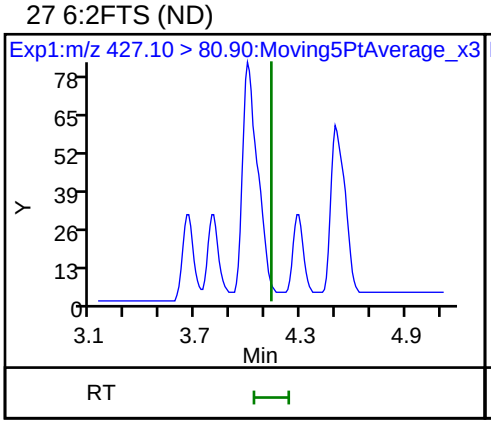

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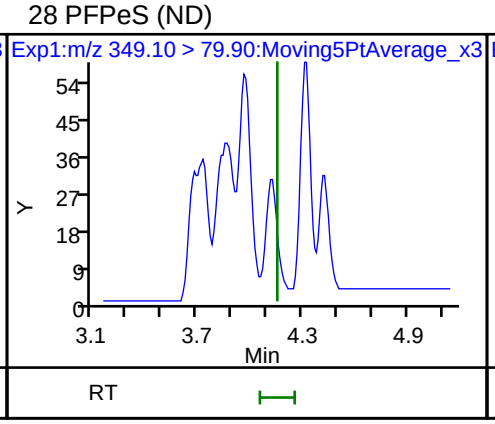

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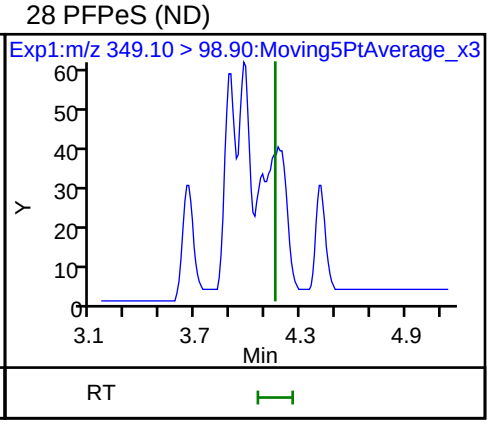

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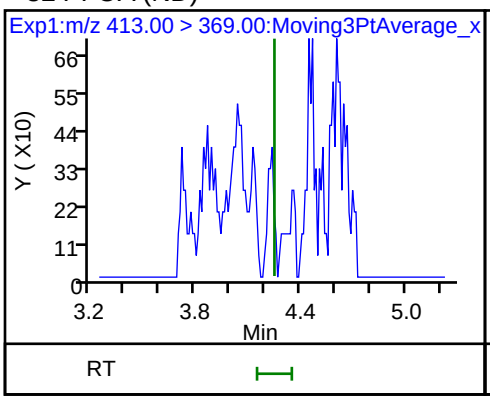

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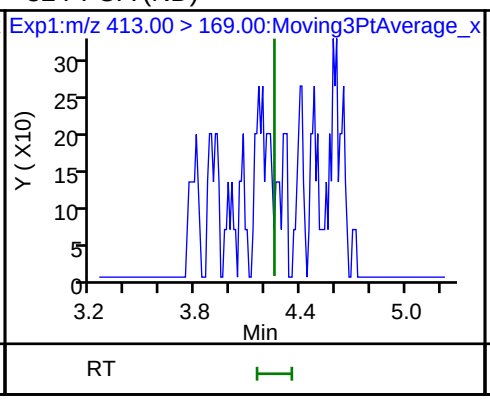

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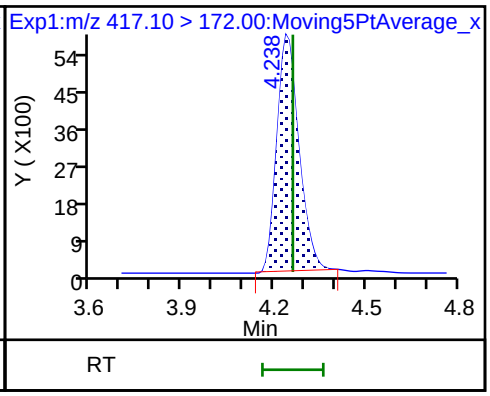

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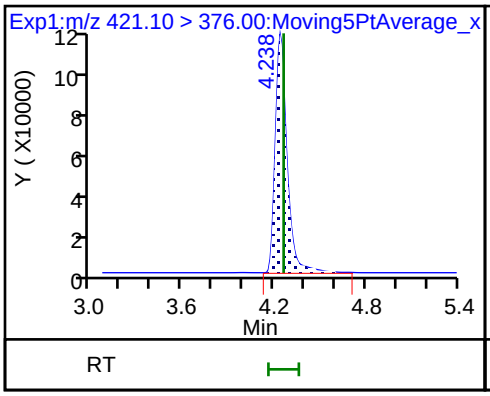
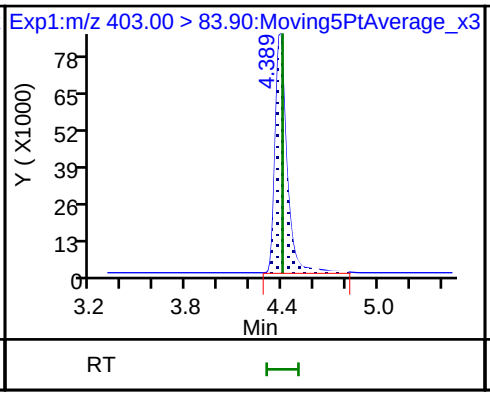
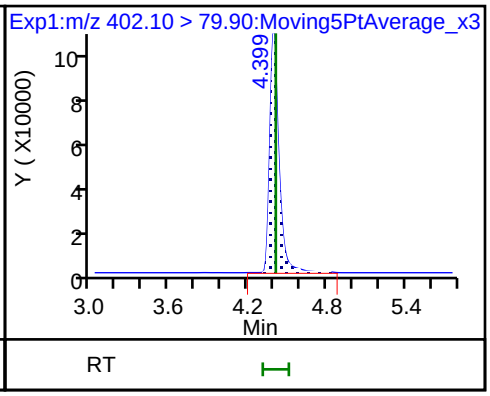


* 35 18O2 PFHxS



D 36 13C3 PFHxS



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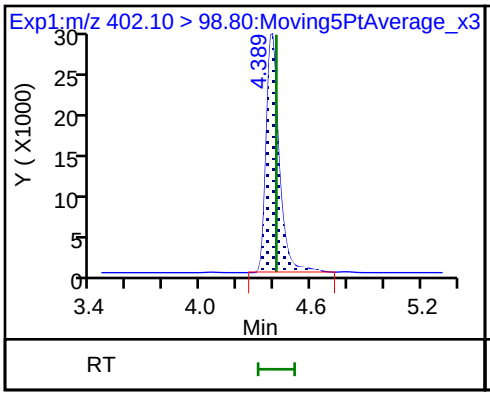

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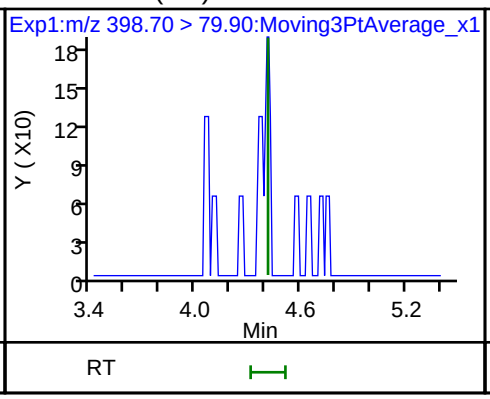

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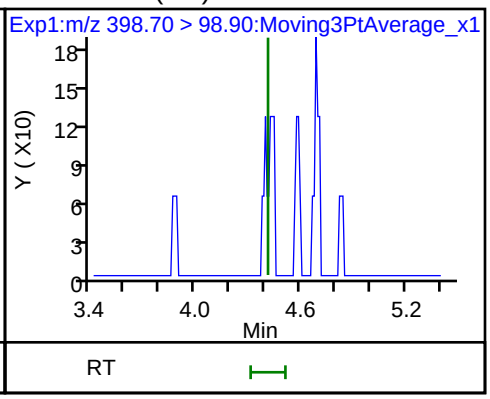

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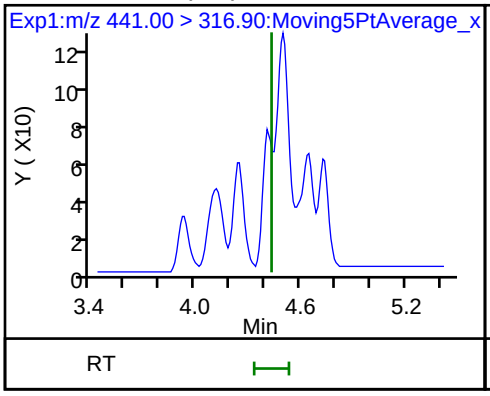

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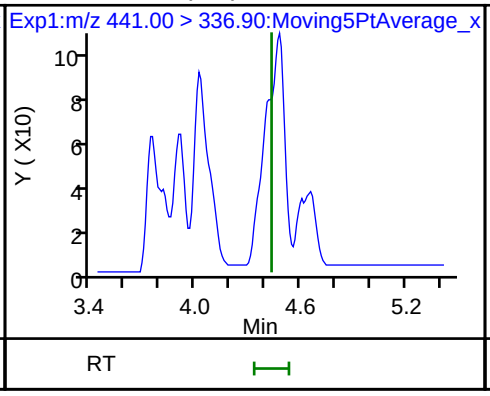

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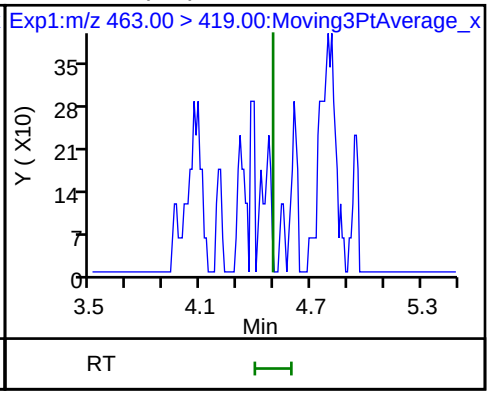

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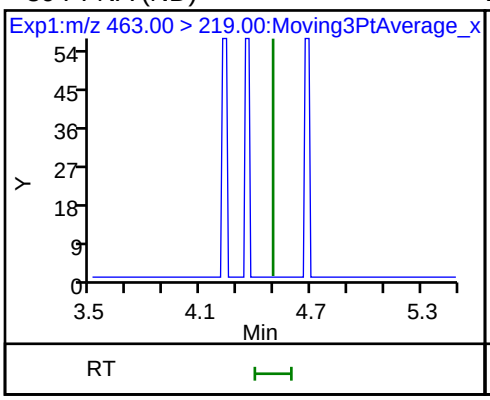
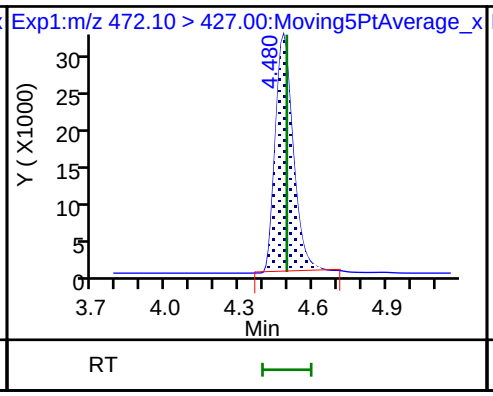


D 38 13C9 PFNA



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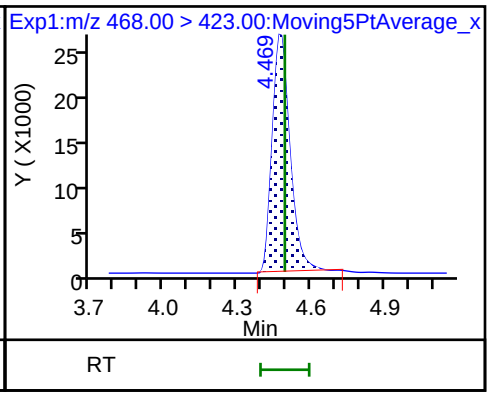
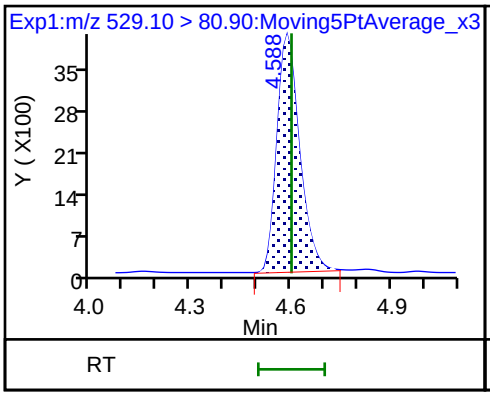


D 41 13C2-8:2FTS



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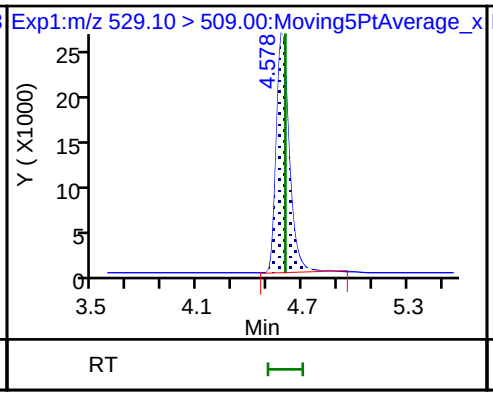

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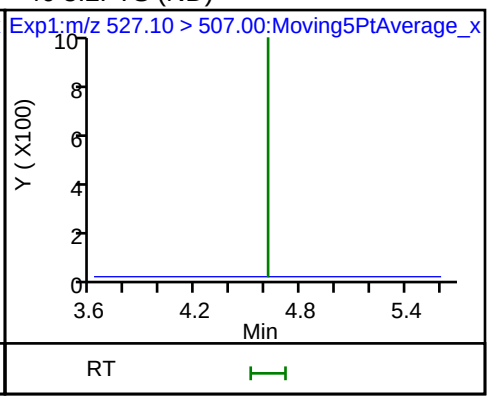

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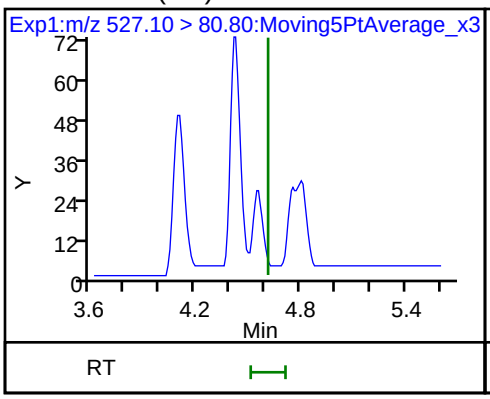

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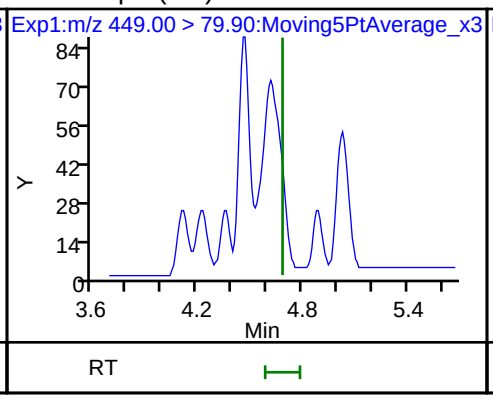

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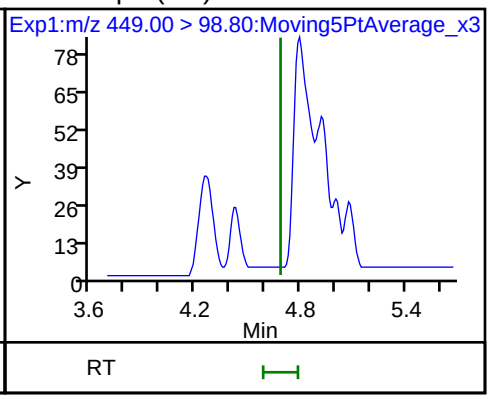
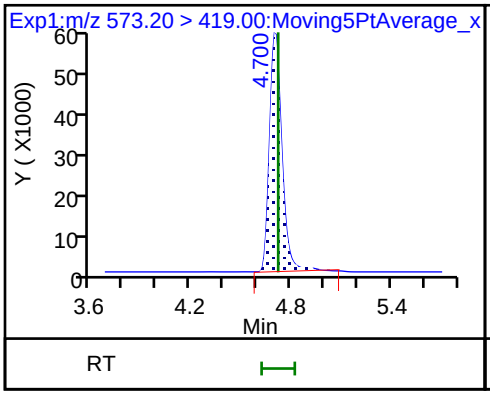


D 44 d3-NMeFOSAA



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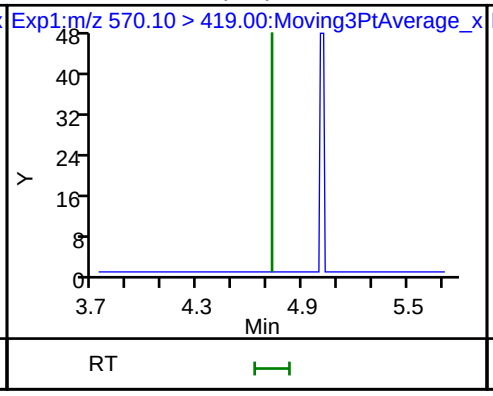

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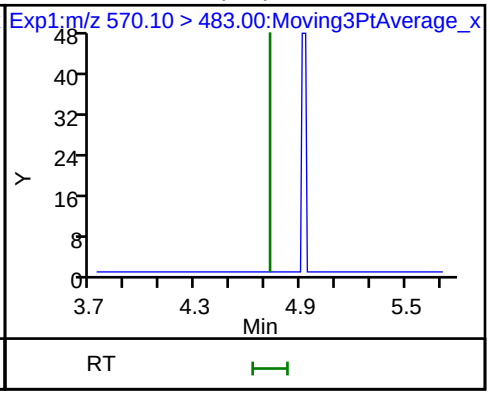
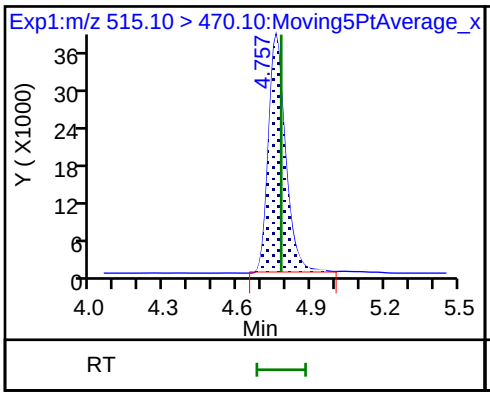
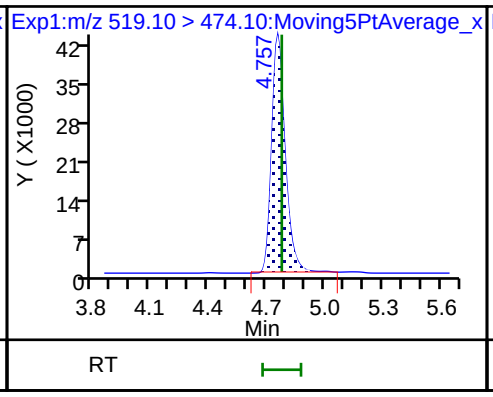


* 46 13C2 PFDA



D 47 13C6 PFDA



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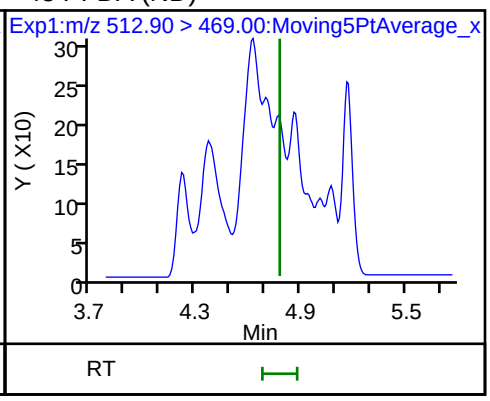

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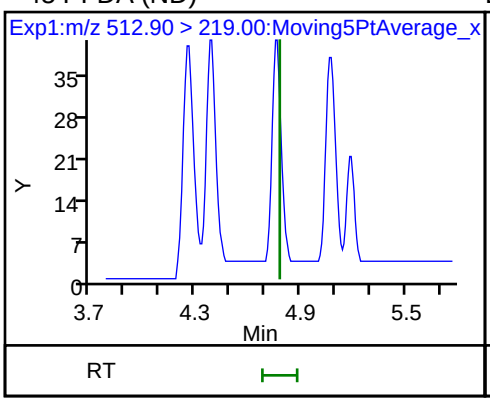
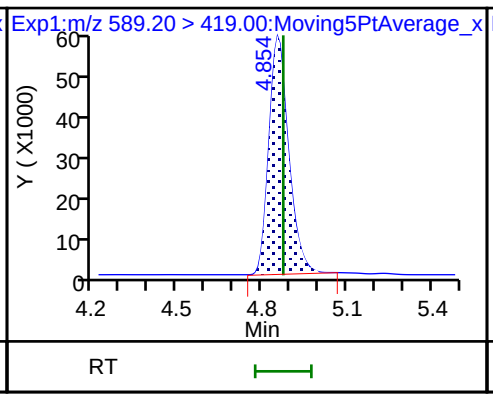


D 49 d5-NEtFOSAA



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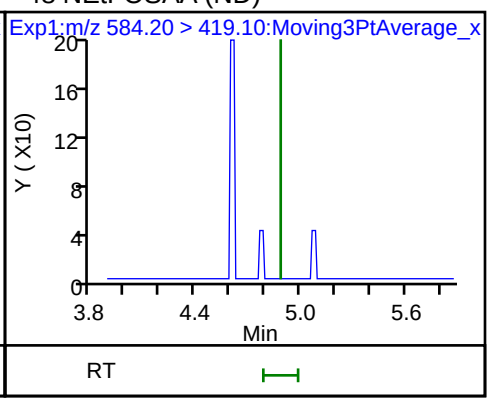

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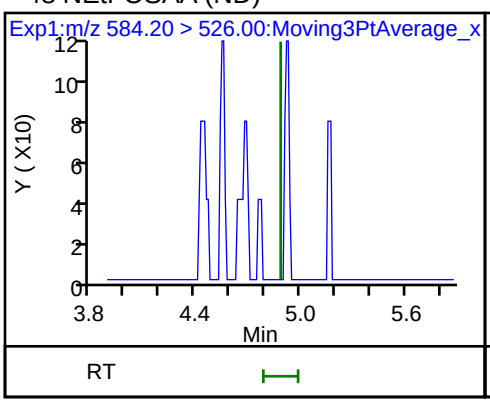
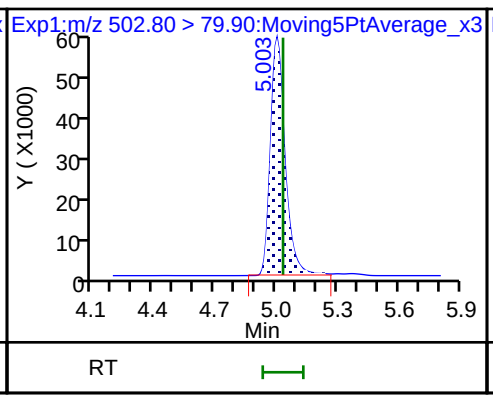


* 52 13C4 PFOS



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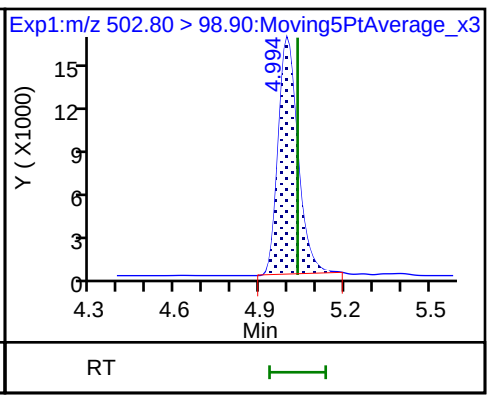
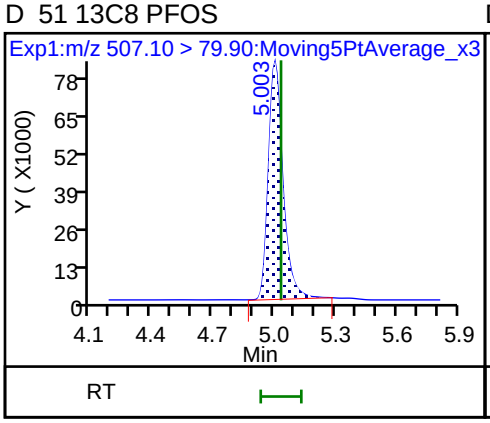
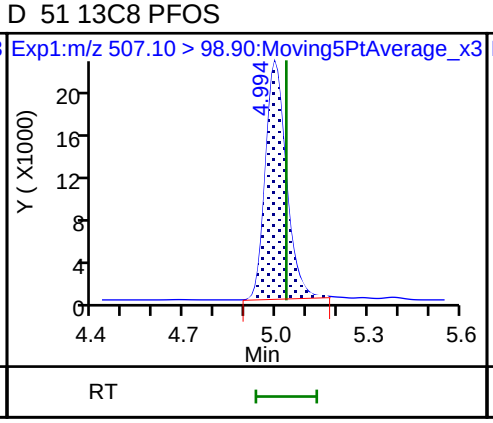


D 51 13C8 PFOS



D 51 13C8 PFOS



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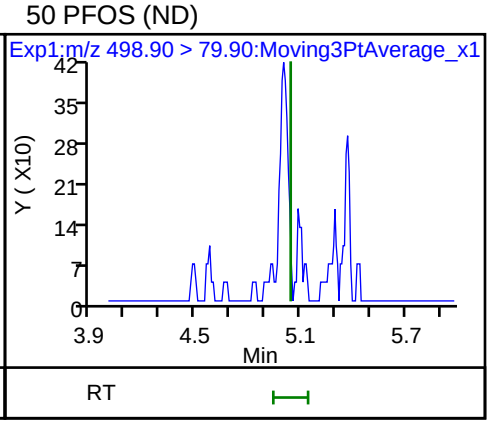

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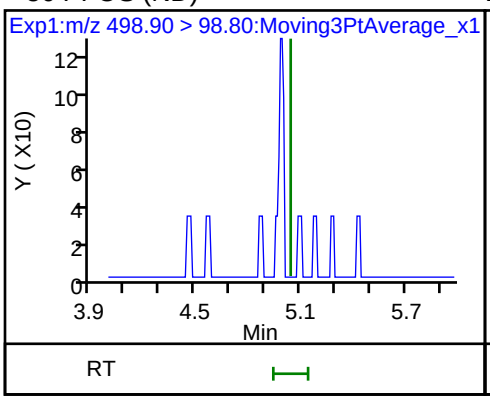

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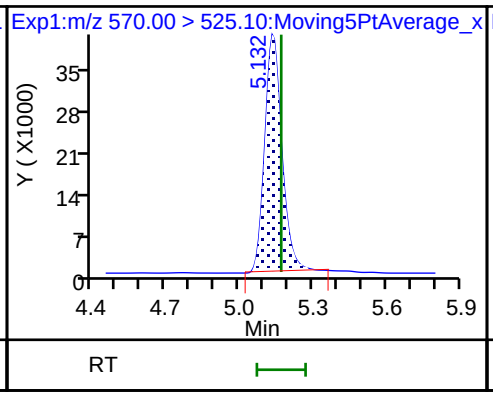

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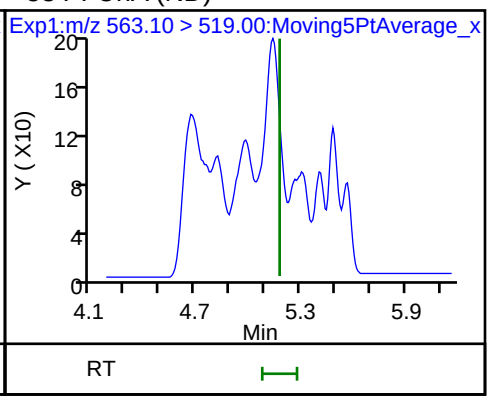

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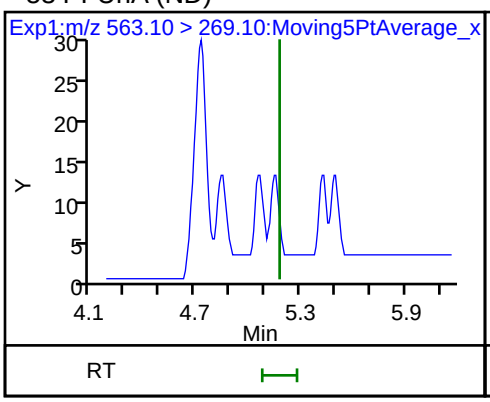

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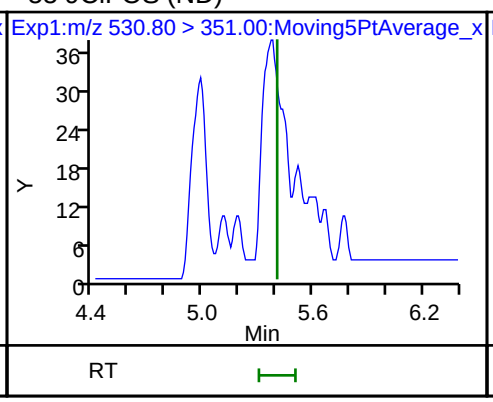

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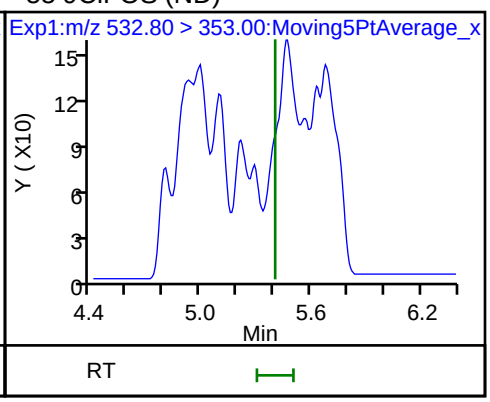

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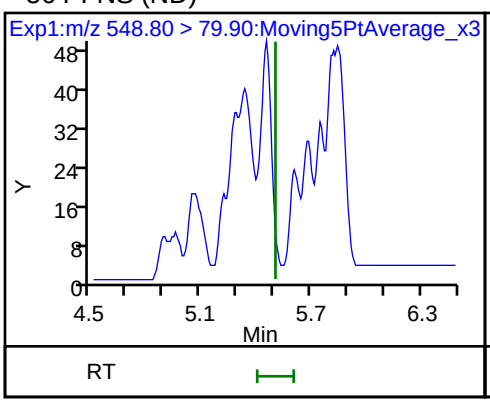

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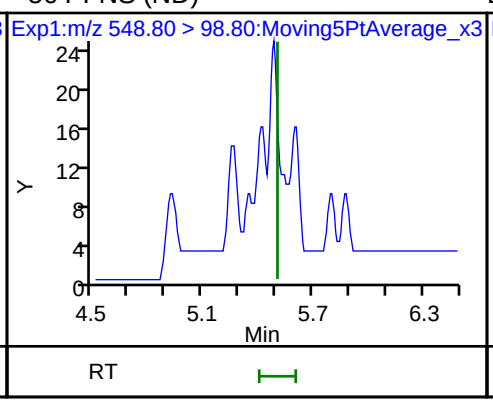
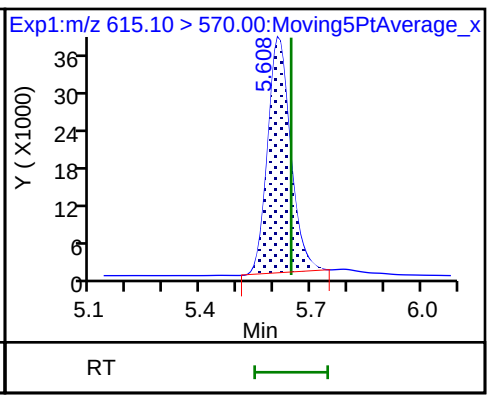


D 58 PFDoDA



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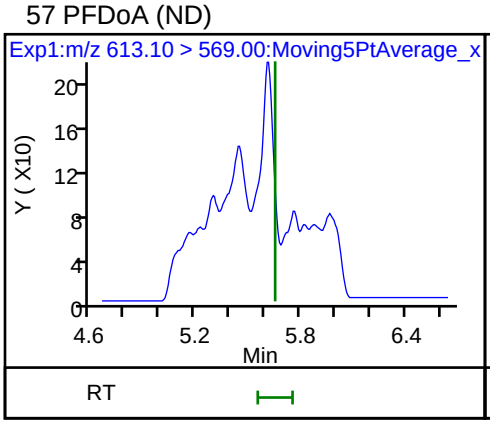

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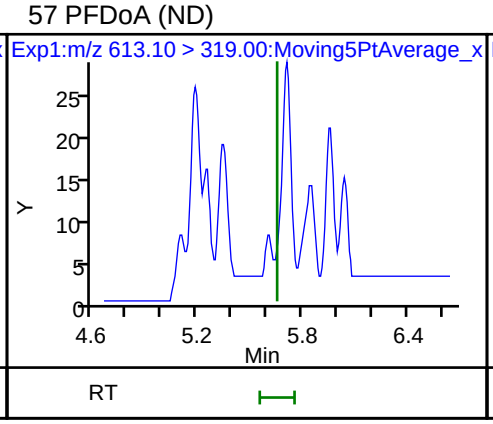

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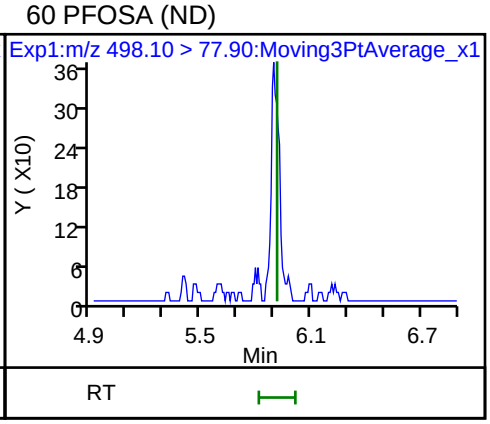

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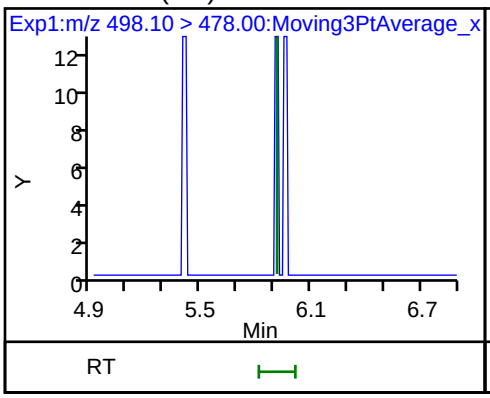
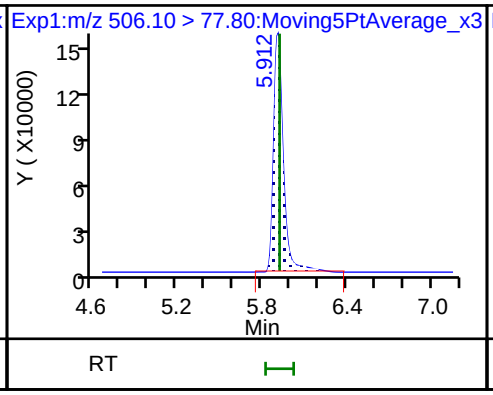


D 59 13C8 FOSA



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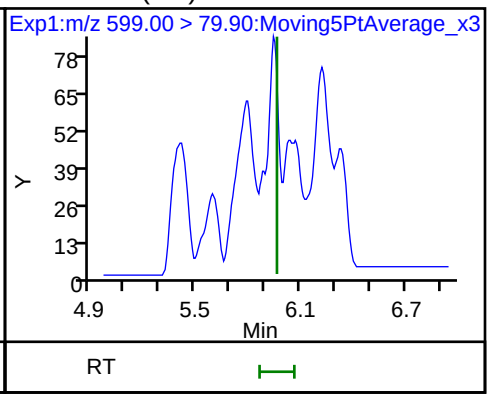

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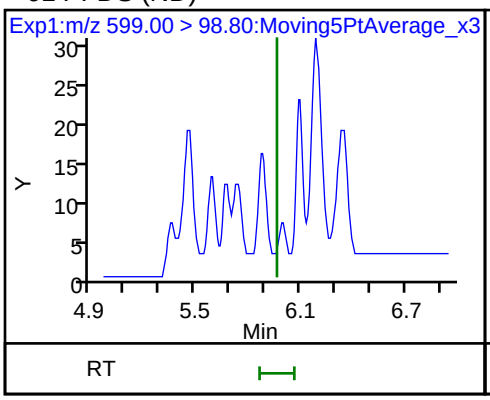

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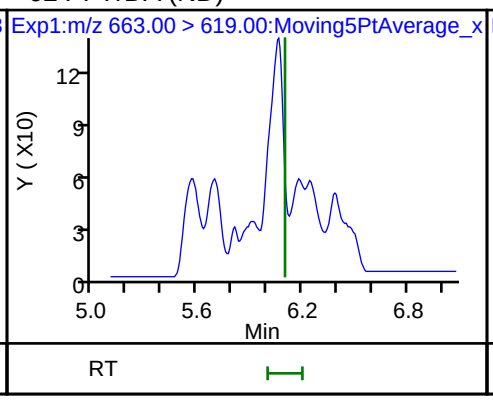

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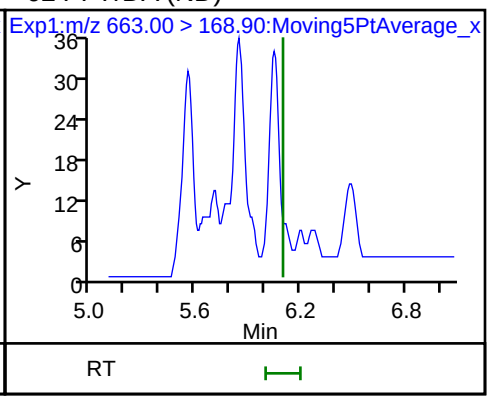

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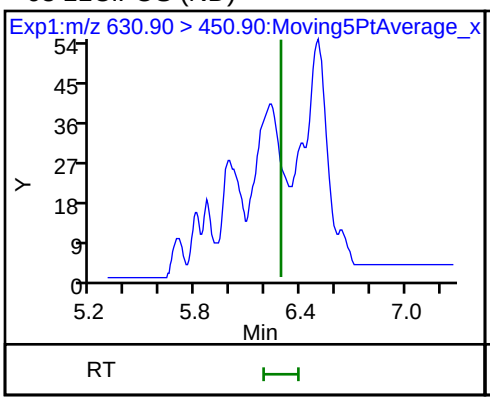
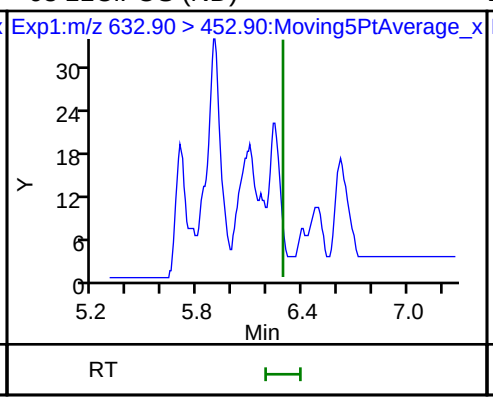
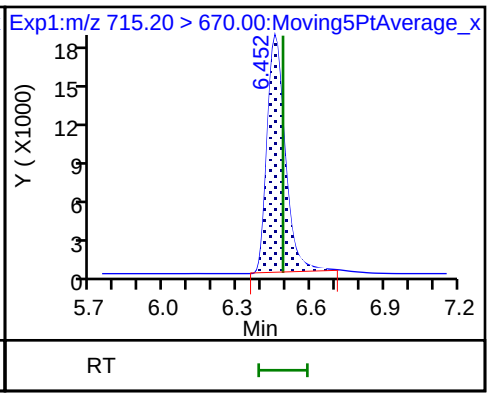


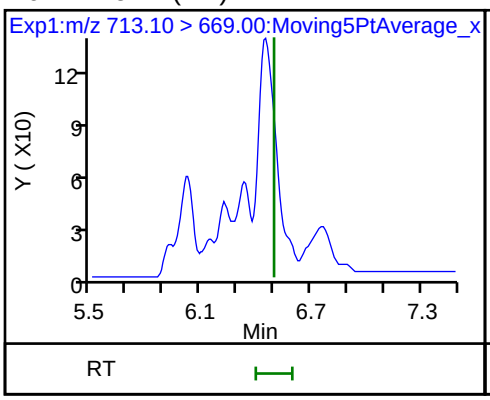
63 11ClFOS (ND)



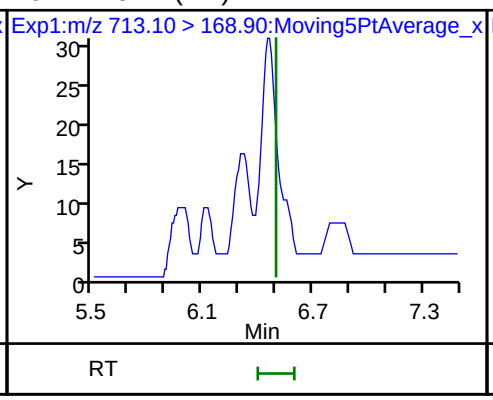
D 65 13C2 PFTeDA



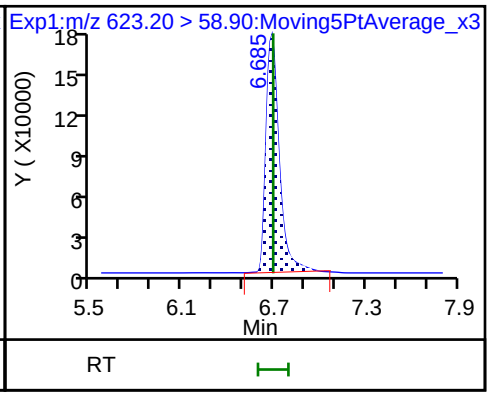
64 PFTeDA (ND)



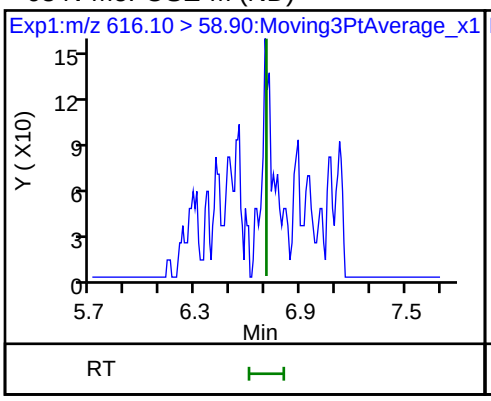
64 PFTeDA (ND)



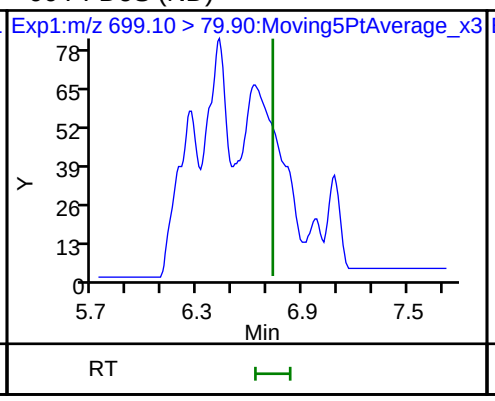
D 67 d7-N-Me-FOSE



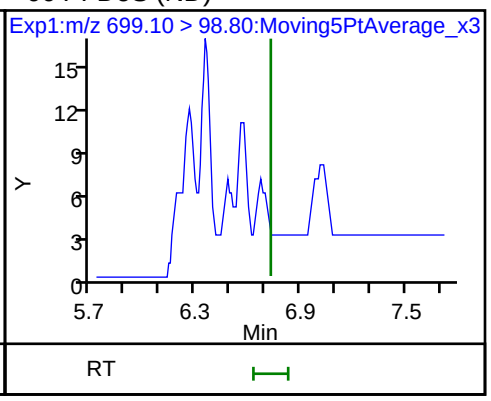
68 N-MeFOSE-M (ND)



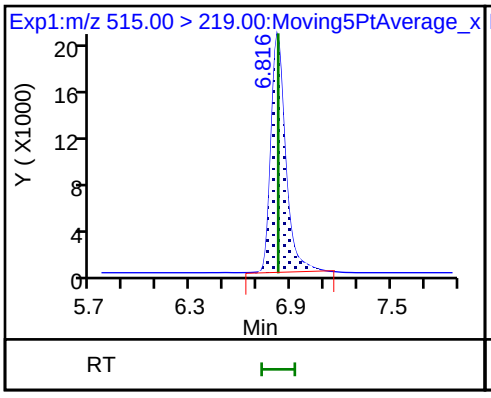
66 PFDoS (ND)



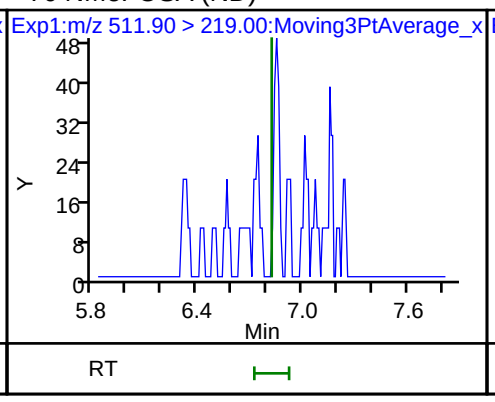
66 PFDoS (ND)



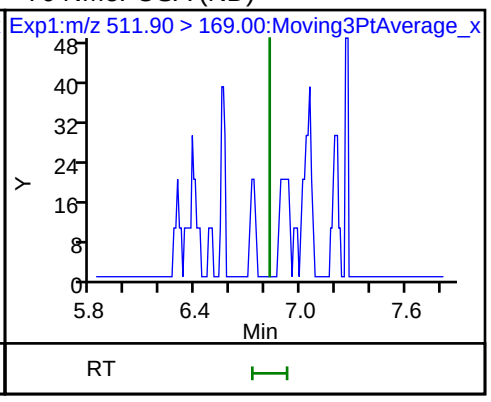
D 69 d3-NMePFOSA



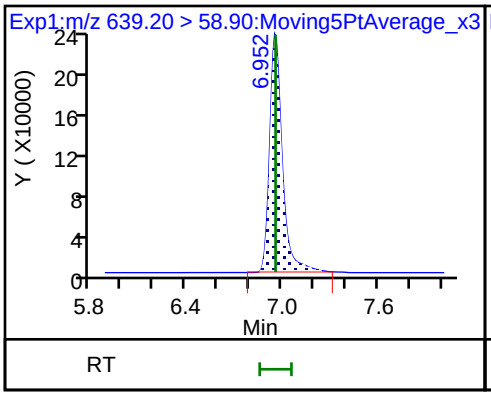
70 NMeFOSA (ND)



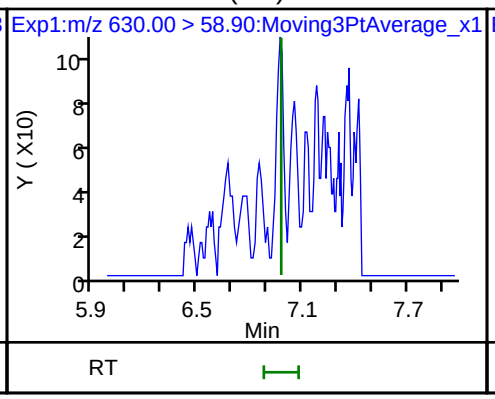
70 NMeFOSA (ND)



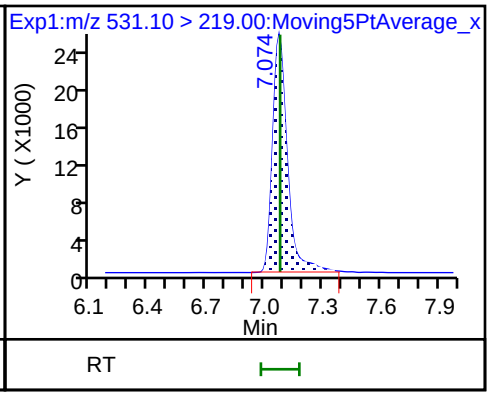
D 71 d9-N-EtFOSE



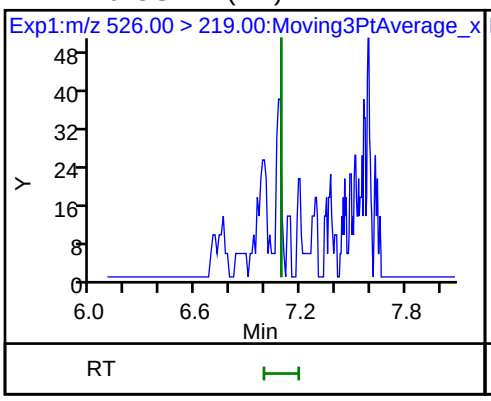
72 N-EtFOSE-M (ND)



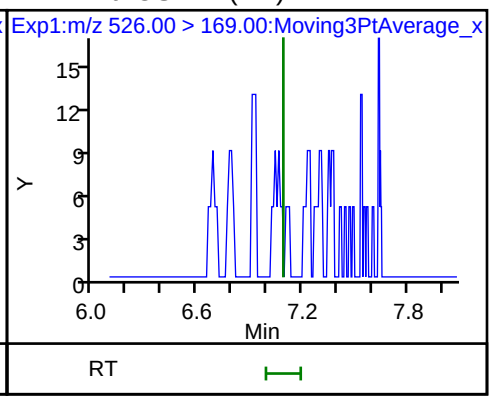
D 73 d5-NEtPFOSA



74 N-EtFOSA-M (ND)



74 N-EtFOSA-M (ND)



FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: Lab Sample ID: ICB 410-404842/8

Matrix: Water Lab File ID: 23AUG05DCAL-08.d

Analysis Method: 1633 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 0(mL) Date Analyzed: 08/05/2023 10:46

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 404842 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	0.025	U	0.10	0.025
355-46-4	Perfluorohexanesulfonic acid	0.025	U	0.10	0.025
2058-94-8	Perfluoroundecanoic acid	0.025	U	0.10	0.025
335-67-1	Perfluorooctanoic acid	0.025	U	0.10	0.025
335-77-3	Perfluorodecanesulfonic acid	0.025	U	0.10	0.025
376-06-7	Perfluorotetradecanoic acid	0.025	U	0.10	0.025
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.025	U	0.10	0.025
31506-32-8	NMeFOSA	0.025	U	0.10	0.025
812-70-4	7:3 FTCA	0.025	U	0.10	0.025
335-76-2	Perfluorodecanoic acid	0.025	U	0.10	0.025
72629-94-8	Perfluorotridecanoic acid	0.025	U	0.10	0.025
113507-82-7	PFEESA	0.025	U	0.10	0.025
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	0.025	U	0.10	0.025
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	0.025	U	0.10	0.025
375-95-1	Perfluorononanoic acid	0.025	U	0.10	0.025
13252-13-6	HFPO-DA	0.025	U	0.10	0.025
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	0.025	U	0.10	0.025
2706-91-4	Perfluoropentanesulfonic acid	0.025	U	0.10	0.025
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	0.025	U	0.10	0.025
68259-12-1	Perfluorononanesulfonic acid	0.025	U	0.10	0.025
375-85-9	Perfluoroheptanoic acid	0.025	U	0.10	0.025
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.025	U	0.10	0.025
1763-23-1	Perfluorooctanesulfonic acid	0.025	U	0.10	0.025
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	0.025	U	0.10	0.025
377-73-1	Perfluoro-3-methoxypropanoic acid	0.025	U	0.10	0.025
375-22-4	Perfluorobutanoic acid	0.025	U	0.10	0.025
2991-50-6	NEtFOSAA	0.025	U	0.10	0.025

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: Lab Sample ID: ICB 410-404842/8

Matrix: Water Lab File ID: 23AUG05DCAL-08.d

Analysis Method: 1633 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 0(mL) Date Analyzed: 08/05/2023 10:46

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 404842 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-55-1	Perfluorododecanoic acid	0.025	U	0.10	0.025
307-24-4	Perfluorohexanoic acid	0.025	U	0.10	0.025
863090-89-5	Perfluoro(4-methoxybutanoic acid)	0.025	U	0.10	0.025
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	0.025	U	0.10	0.025
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.025	U	0.10	0.025
2706-90-3	Perfluoropentanoic acid	0.025	U	0.10	0.025
914637-49-3	5:3 FTCA	0.025	U	0.10	0.025
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	0.025	U	0.10	0.025
754-91-6	Perfluorooctanesulfonamide	0.025	U	0.10	0.025
356-02-5	3:3 FTCA	0.025	U	0.10	0.025
2355-31-9	NMeFOSAA	0.025	U	0.10	0.025
375-73-5	Perfluorobutanesulfonic acid	0.025	U	0.10	0.025
375-92-8	Perfluoroheptanesulfonic acid	0.025	U	0.10	0.025

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: Lab Sample ID: ICB 410-404842/8

Matrix: Water Lab File ID: 23AUG05DCAL-08.d

Analysis Method: 1633 Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 0(mL) Date Analyzed: 08/05/2023 10:46

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 404842 Units: ng/mL

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	106		10-130
STL01893	13C5 PFPeA	118		35-150
STL02577	13C5 PFHxA	116		55-150
STL01892	13C4 PFHpA	122		55-150
STL01052	13C8 PFOA	101		60-140
STL02578	13C9 PFNA	104		55-140
STL02579	13C6 PFDA	108		50-140
STL02580	13C7 PFUnA	110		30-140
STL02703	13C2-PFDoDA	109		10-150
STL02116	13C2 PFTeDA	101		10-130
STL02337	13C3 PFBS	117		55-150
STL02581	13C3 PFHxS	105		55-150
STL01054	13C8 PFOS	106		45-140
STL01056	13C8 FOSA	109		30-130
STL02118	d3-NMeFOSAA	105		45-200
STL02117	d5-NEtFOSAA	110		10-200
STL02395	M2-4:2 FTS	105		60-200
STL02279	M2-6:2 FTS	94.5		60-200
STL02280	M2-8:2 FTS	116		50-200
STL02255	13C3 HFPO-DA	126		25-160
STL02277	d7-N-MeFOSE-M	108		10-150
STL02278	d9-N-EtFOSE-M	107		10-150
STL02704	d5-NEtPFOSA	110		10-130
STL02705	d3-NMePFOSA	104		15-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-08.d
Lims ID: ICB
Client ID:
Sample Type: ICB
Inject. Date: 05-Aug-2023 10:46:09 ALS Bottle#: 20001 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: ICB
Misc. Info.: Plate: 1 Rack: 1 410-0090708-008
Operator ID: US19_USR_INS20263 Instrument ID: 30729

Method: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\PFAS_30729_1633.m
Limit Group: LC - 1633 ICAL
Last Update: 05-Aug-2023 12:08:43 Calib Date: 05-Aug-2023 11:25:28
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-11.d

Column 1 : Det: EXP1
Process Host: CTX1666

First Level Reviewer: UCD3 Date: 05-Aug-2023 11:15:07
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4-PFBA										
216.80 > 171.90	2.935	2.939	-0.004	1.000	1391839	10.6		106	82054	
* 3 13C3PFBA										
216.00 > 172.00	2.935	2.939	-0.004		807188	5.00			1743	
4 PFMPA										
229.00 > 84.90	3.167	3.163	0.004	0.919	1672	0.0117			86.5	
D 7 13C5 PFPeA										
268.30 > 223.00	3.448	3.452	-0.004	0.918	392980	5.92		118	24269	
D 10 13C2-4:2FTS										
329.10 > 80.90	3.631	3.636	-0.005	0.826	66969	4.91	Target=0.35	105	3002	
329.10 > 309.00	3.631	3.636	-0.005	0.826	189245		0.35(0.18-0.53)	105	11194	
D 14 13C5 PFHxA										
318.00 > 273.00	3.754	3.759	-0.005	1.000	47014	2.91	Target=15.34	116	2973	
318.00 > 120.30	3.744	3.759	-0.015	0.997	3081		15.26(7.67-23.01)	116	210	
* 15 13C2 PFHxA										R
315.10 > 270.00	3.754	3.759	-0.005		231068	2.50	Target=103.53		14808	R
315.10 > 119.40	3.744	3.759	-0.015		1362		169.65(51.76-155.29)		97.3	
D 18 13C3 PFBS										
302.10 > 79.90	3.860	3.866	-0.006	0.878	524168	2.72	Target=6.99	117	32701	
302.10 > 98.90	3.848	3.866	-0.018	0.876	71956		7.28(3.50-10.49)	117	4608	
D 20 13C3 HFPO-DA										
286.90 > 168.90	3.871	3.877	-0.006	1.031	1288841	12.6	Target=29.00	126	79206	
286.90 > 184.90	3.860	3.877	-0.017	1.028	38459		33.51(14.50-43.50)	126	2495	
D 25 13C4 PFHpA										
367.10 > 322.00	4.011	4.017	-0.006	1.068	591337	3.05		122	36694	
D 29 13C2-6:2FTS										
429.10 > 80.90	4.122	4.127	-0.005	0.938	31610	4.49	Target=0.12	94.5	1951	
429.10 > 409.00	4.111	4.127	-0.016	0.936	191230		0.17(0.06-0.18)	94.5	11903	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 30 13C4 PFOA										
417.10 > 172.00	4.253	4.249	0.004		25023	2.50			1634	
D 31 13C8 PFOA										
421.10 > 376.00	4.253	4.249	0.004	1.000	598063	2.51		101	37218	
* 35 18O2 PFHxS										
403.00 > 83.90	4.394	4.399	-0.005		439876	2.37			18322	
D 36 13C3 PFHxS										
402.10 > 79.90	4.403	4.408	-0.005	1.002	520463	2.49	Target=3.90	105	34764	
402.10 > 98.80	4.394	4.408	-0.014	1.000	138203		3.77(1.95-5.85)	105	9374	
* 37 13C5 PFNA										
468.00 > 423.00	4.485	4.490	-0.005		149368	1.25			9754	
D 38 13C9 PFNA										
472.10 > 427.00	4.485	4.490	-0.005	1.000	164582	1.30		104	10933	
D 41 13C2-8:2FTS										
529.10 > 80.90	4.603	4.599	0.004	1.048	20852	5.55	Target=0.14	116	1397	
529.10 > 509.00	4.593	4.599	-0.006	1.045	114793		0.18(0.07-0.21)	116	7980	
D 44 d3-NMeFOSAA										
573.20 > 419.00	4.714	4.719	-0.005	0.940	298407	5.24		105	11921	
D 47 13C6 PFDA										
519.10 > 474.10	4.770	4.775	-0.005	1.000	207689	1.35		108	14413	
* 46 13C2 PFDA										
515.10 > 470.10	4.770	4.775	-0.005		191069	1.25			9853	
D 49 d5-NEtFOSAA										
589.20 > 419.00	4.866	4.871	-0.005	0.970	290120	5.48		110	19023	
* 52 13C4 PFOS										
502.80 > 79.90	5.015	5.021	-0.006		274104	2.40	Target=4.18		13934	
502.80 > 98.90	5.006	5.021	-0.015		75250		3.64(2.09-6.27)		5027	
D 51 13C8 PFOS										
507.10 > 79.90	5.015	5.021	-0.006	1.000	413712	2.54	Target=3.96	106	20885	
507.10 > 98.90	5.006	5.021	-0.015	0.998	106550		3.88(1.98-5.94)	106	5501	
D 54 13C7 PFUnA										
570.00 > 525.10	5.145	5.158	-0.013	1.079	194029	1.37		110	13129	
D 58 PFDoDA										
615.10 > 570.00	5.625	5.637	-0.012	1.179	171260	1.36		109	9775	
D 59 13C8 FOSA										
506.10 > 77.80	5.921	5.920	0.001	1.181	651865	2.73		109	43886	
D 65 13C2 PFTeDA										
715.20 > 670.00	6.464	6.482	-0.018	1.355	89312	1.26		101	5653	
D 67 d7-N-Me-FOSE										
623.20 > 58.90	6.690	6.696	-0.006	1.334	1062211	27.0		108	43409	
D 69 d3-NMePFOSA										
515.00 > 219.00	6.821	6.839	-0.018	1.360	121961	2.60		104	6684	
D 71 d9-N-EtFOSE										
639.20 > 58.90	6.965	6.972	-0.007	1.389	1295313	26.9		107	39423	
D 73 d5-NEtPFOSA										
531.10 > 219.00	7.087	7.094	-0.007	1.413	138093	2.75		110	8655	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Reagents:

PFC_ST_02171	Amount Added:	5.00	Units: uL
PFC_ST_02214	Amount Added:	5.00	Units: uL

Report Date: 05-Aug-2023 12:09:22 Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-08.d

Injection Date: 05-Aug-2023 10:46:09 Instrument ID: 30729

Lims ID: ICB

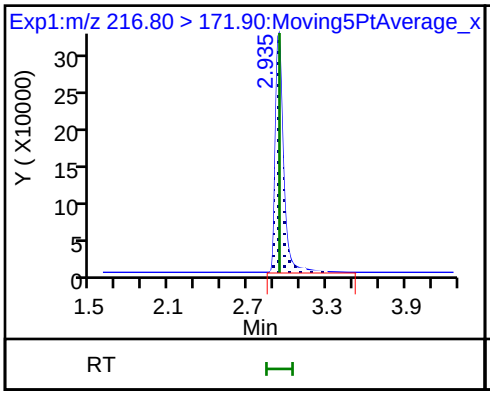
Client ID:

Operator ID: US19_USR_INS20263 ALS Bottle#: 20001 Worklist Smp#: 8

Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: PFAS_30729_1633 Limit Group: LC - 1633 ICAL

D 2 13C4-PFBA



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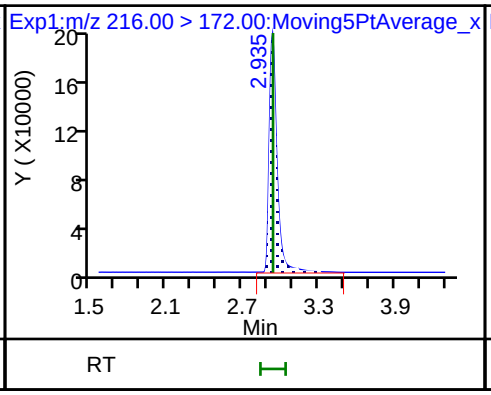

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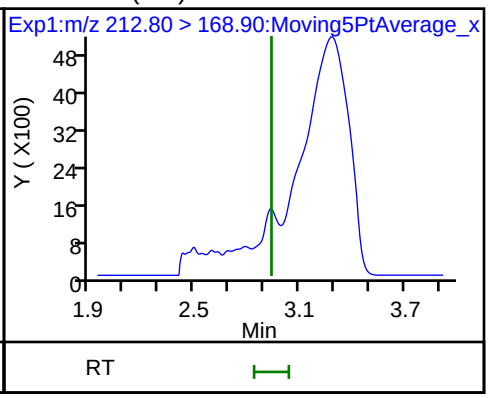

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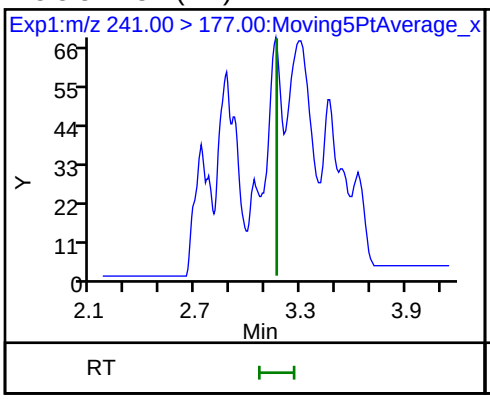

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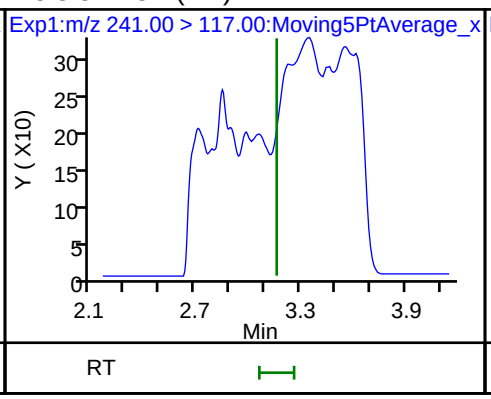
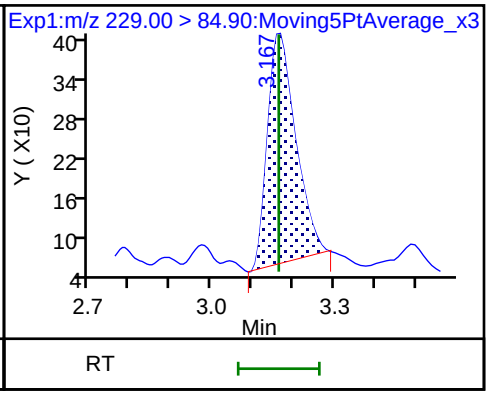


4 PFMPA



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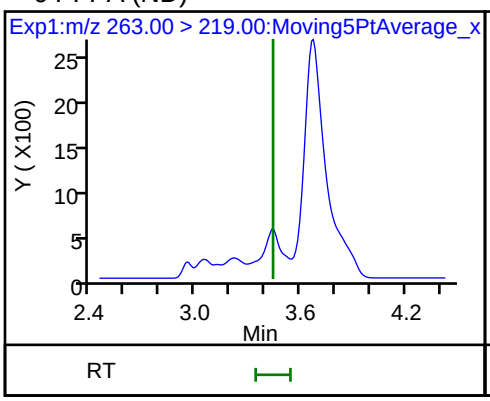

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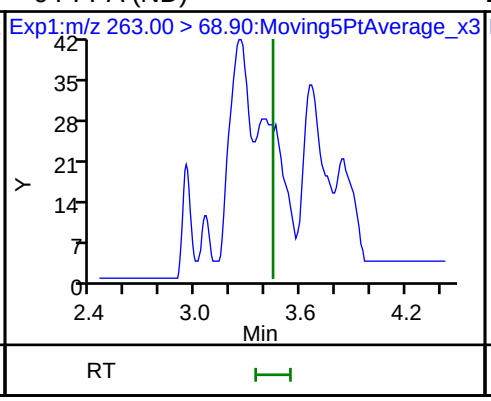

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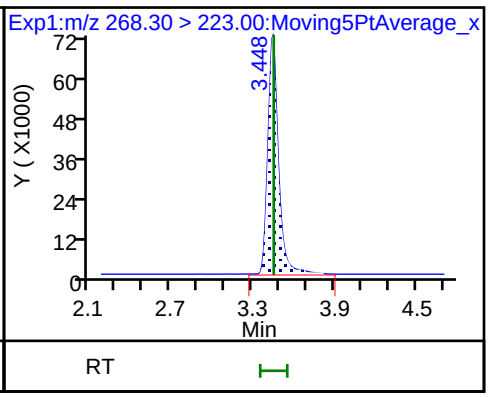

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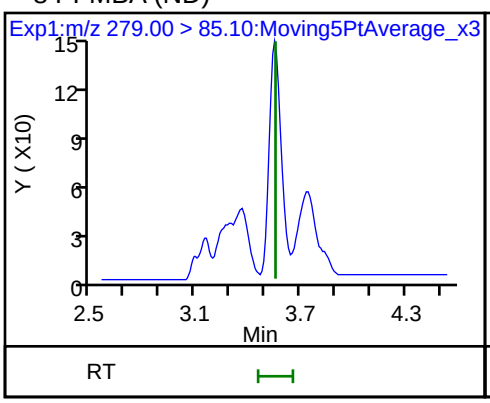

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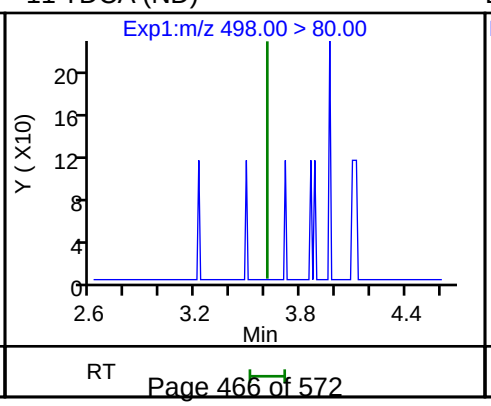

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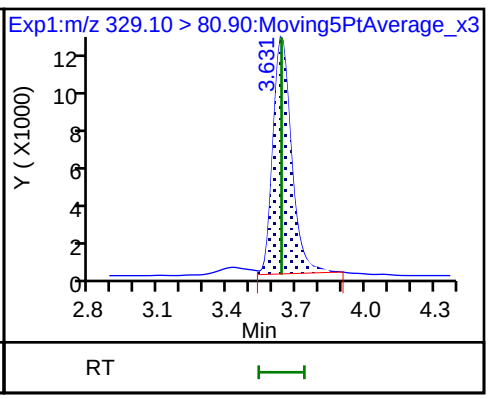

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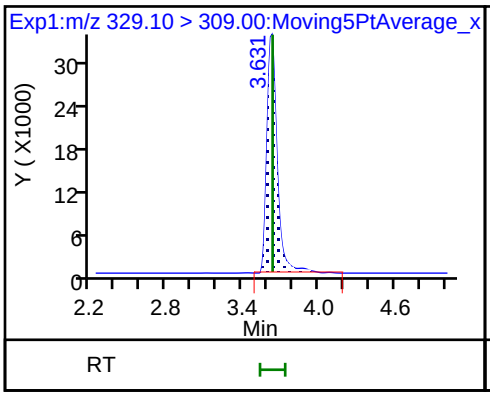

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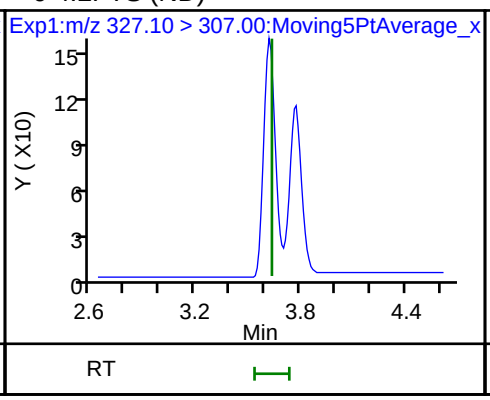

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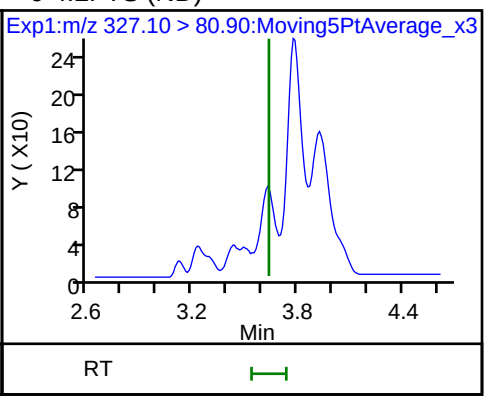

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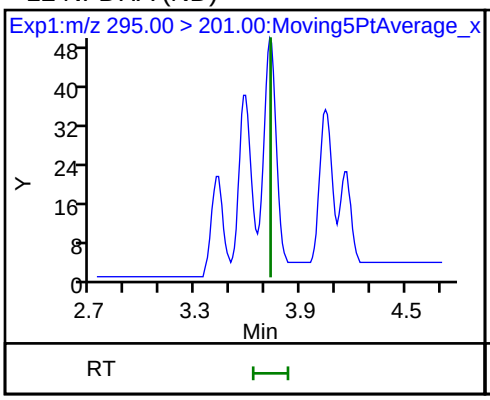

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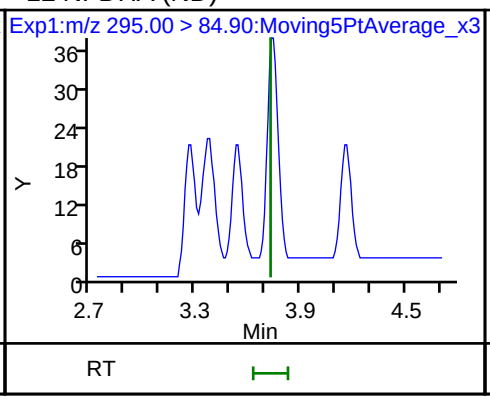

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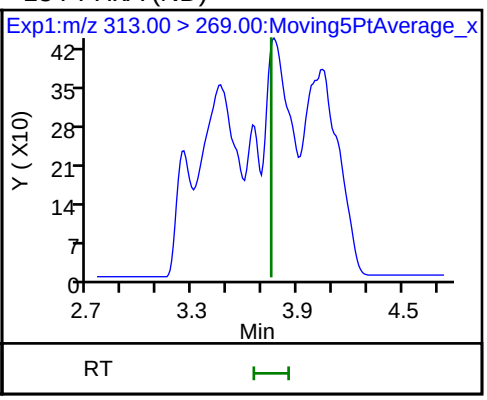

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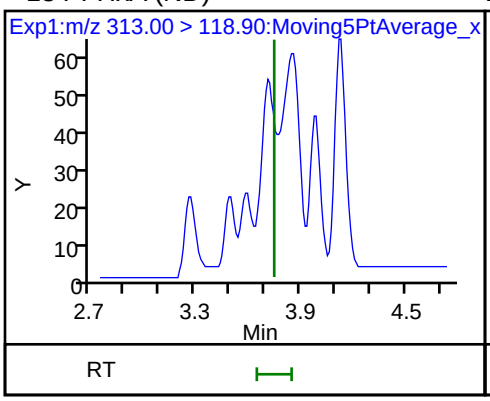

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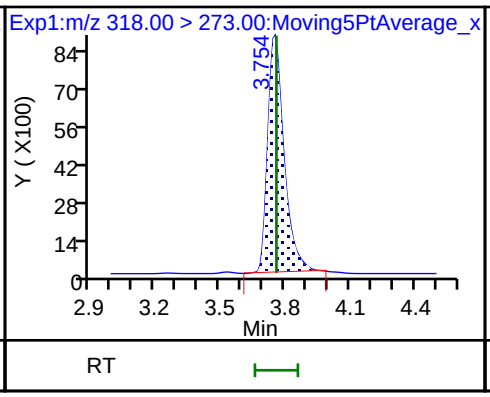

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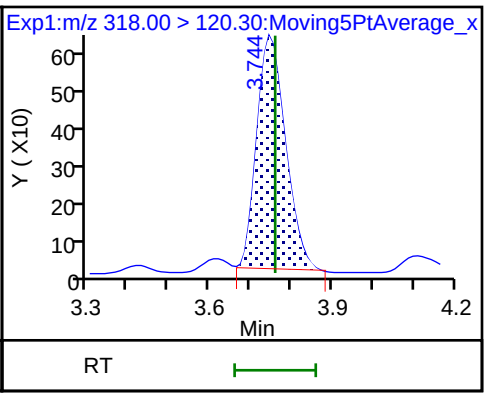

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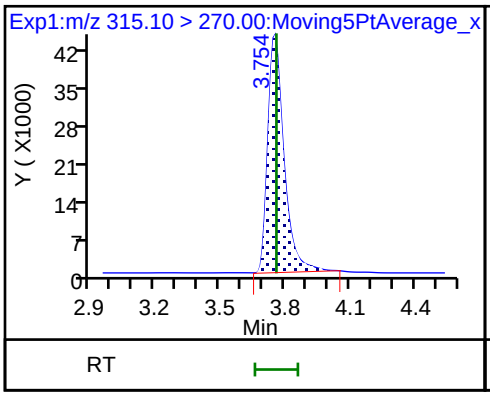

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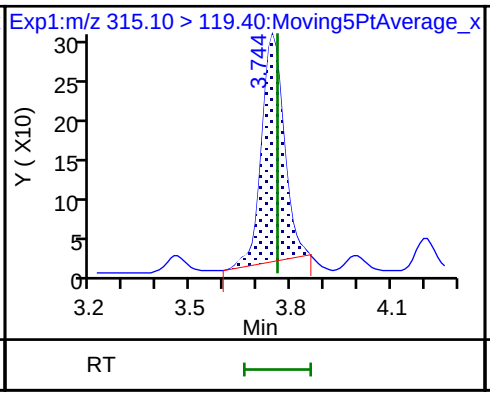

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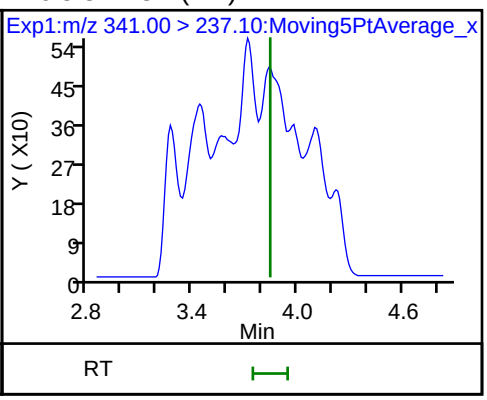

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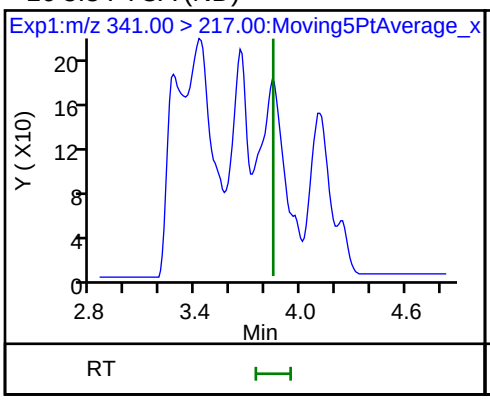

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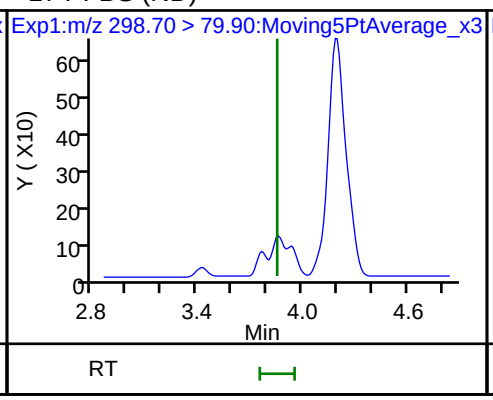

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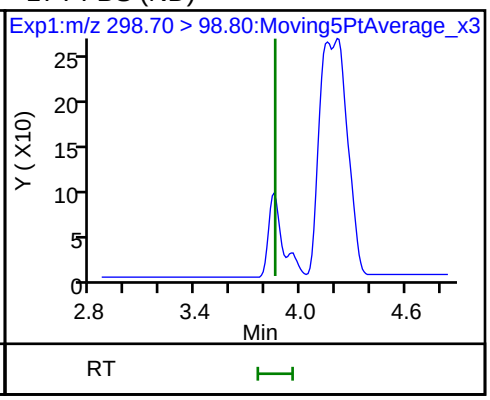

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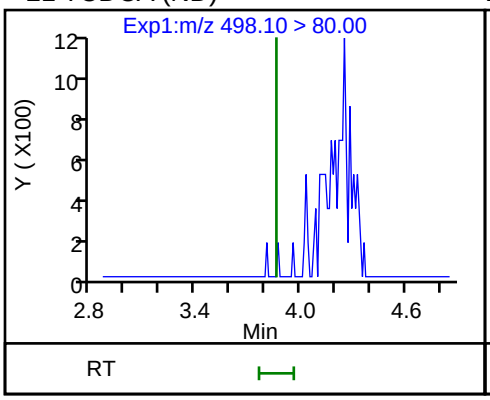
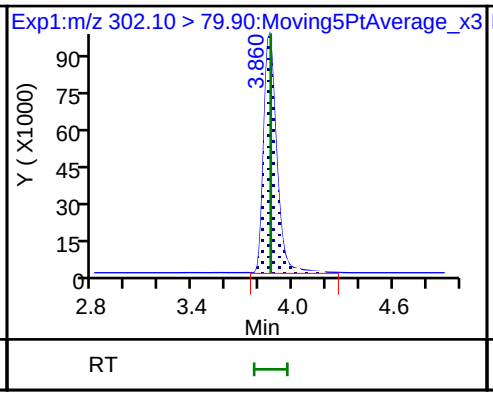


D 18 13C3 PFBS



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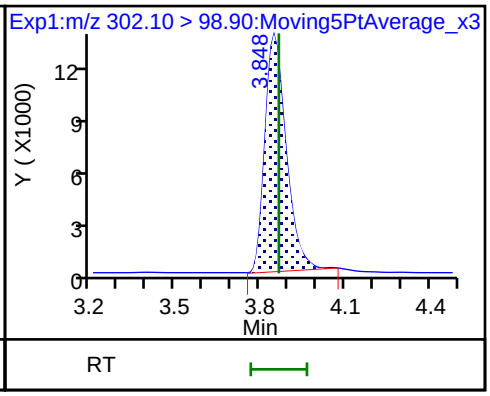

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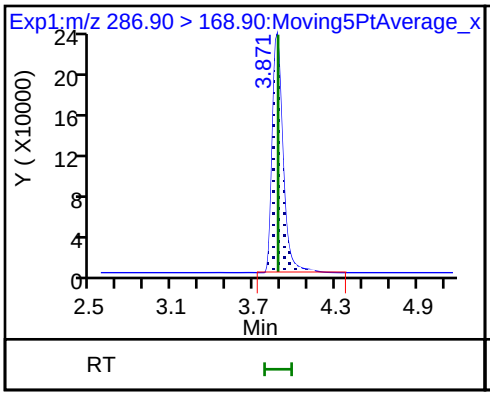

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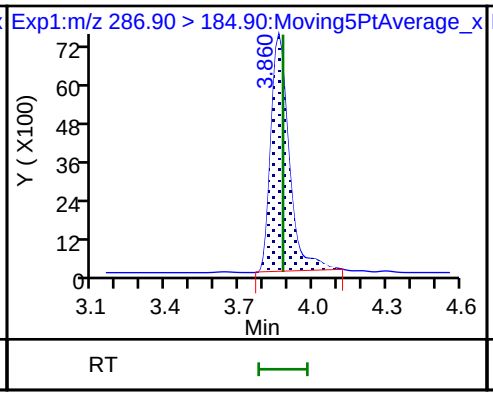

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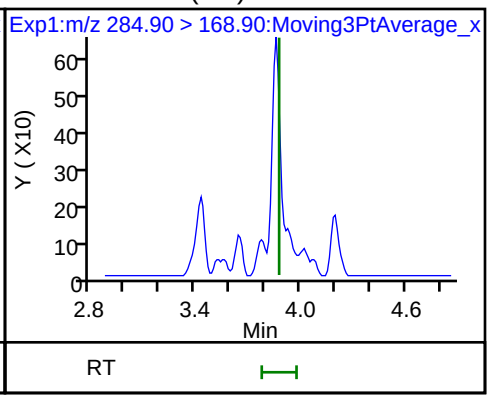

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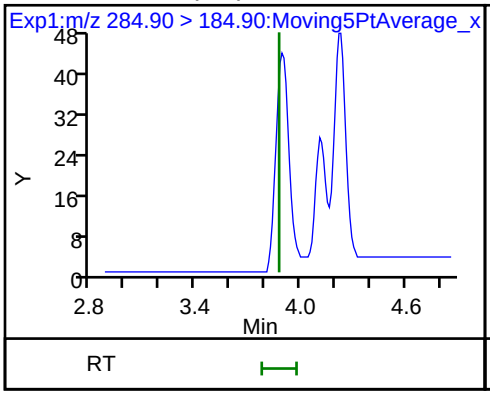

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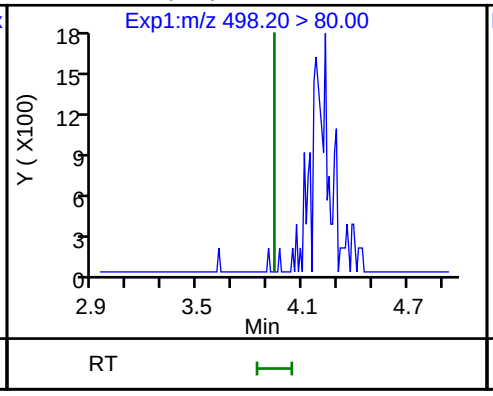

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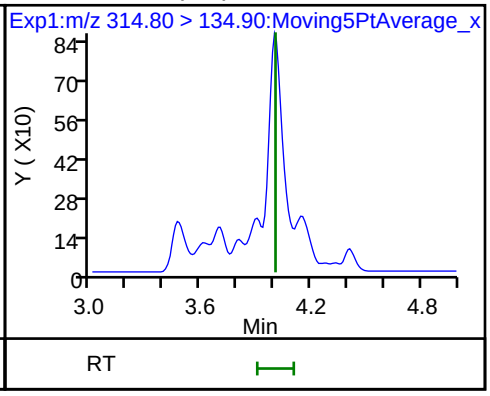

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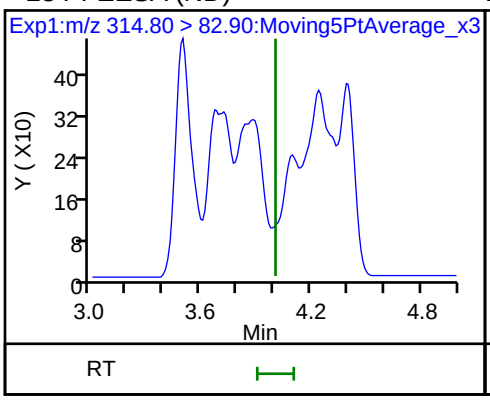

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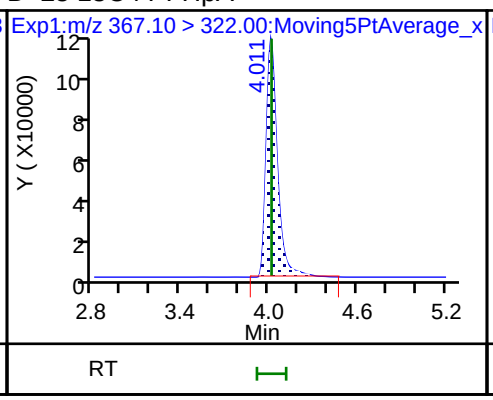

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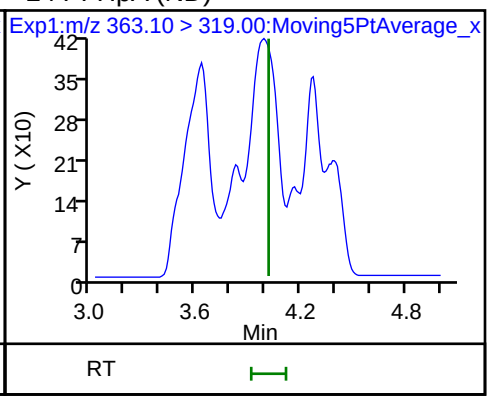

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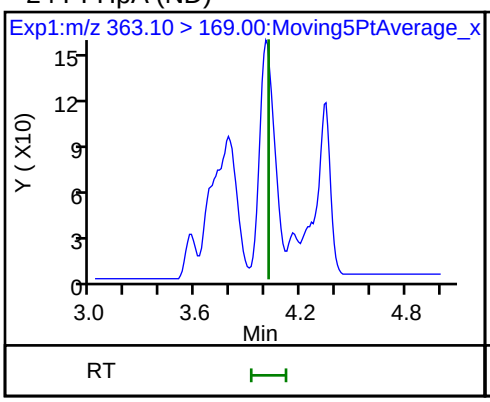

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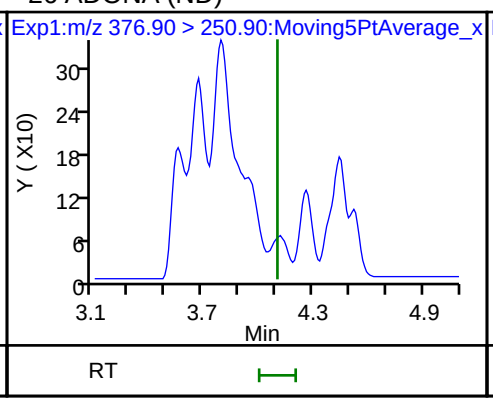

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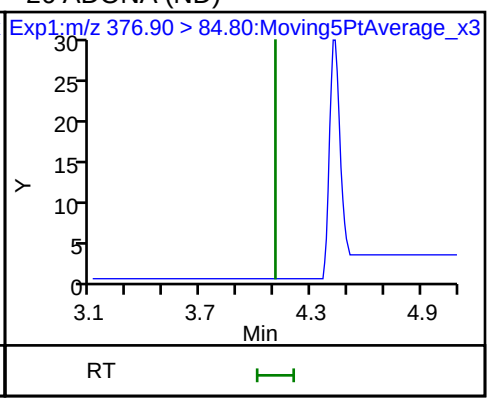

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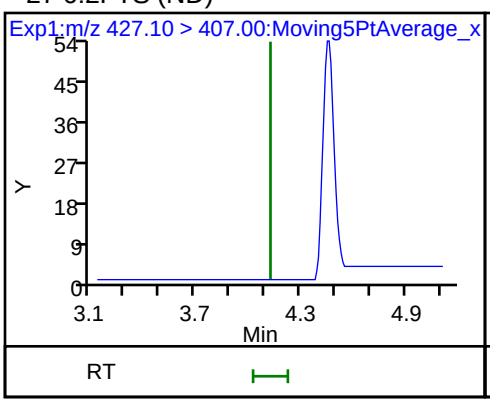

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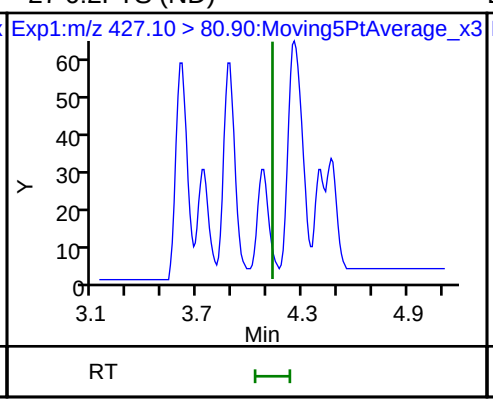

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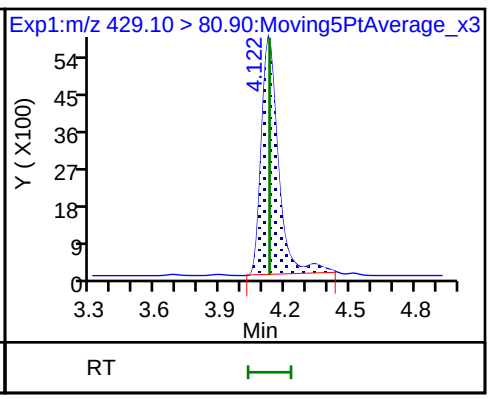

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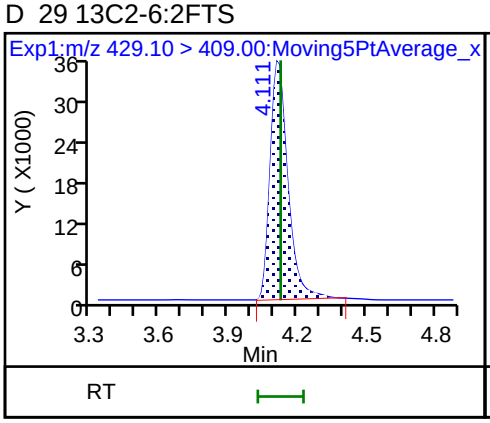

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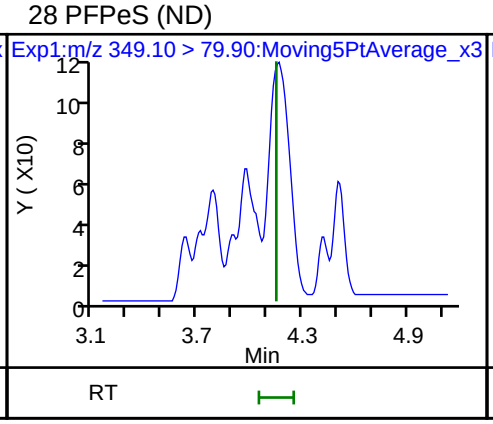

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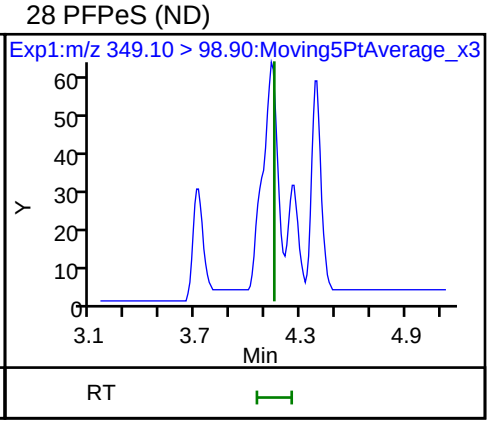

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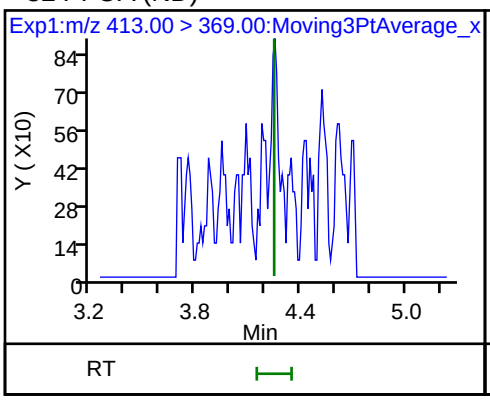

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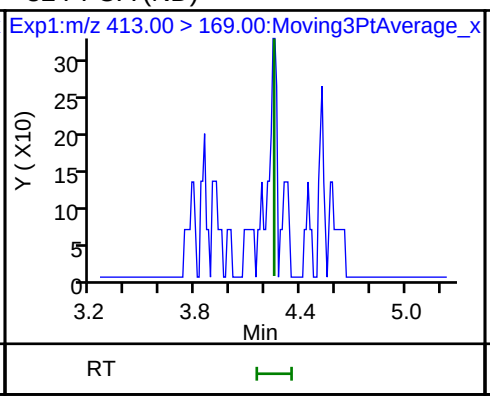

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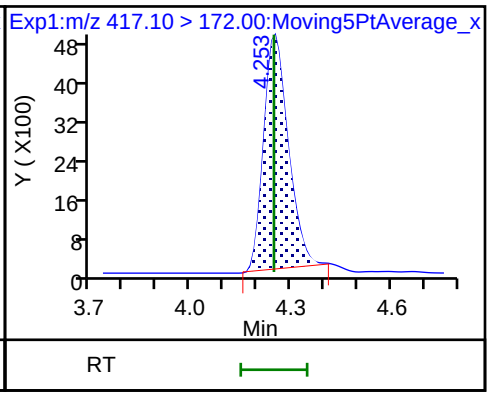

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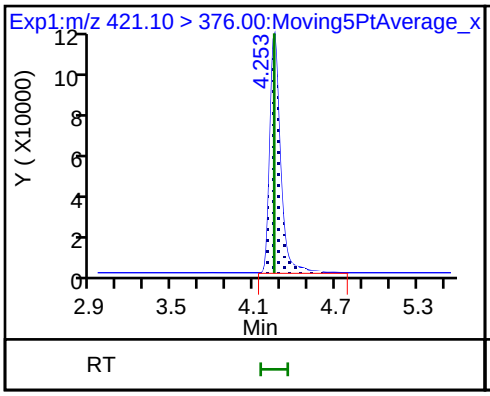
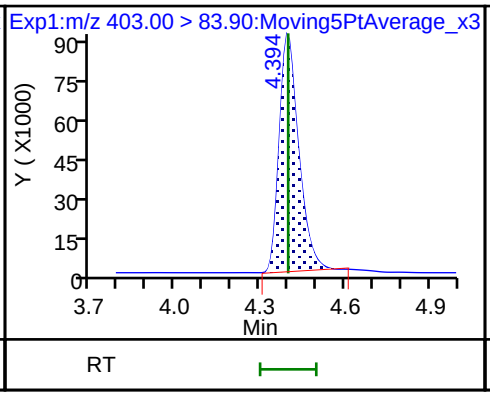
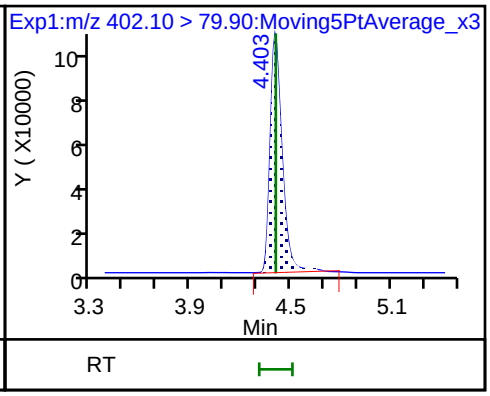


* 35 18O2 PFHxS



D 36 13C3 PFHxS



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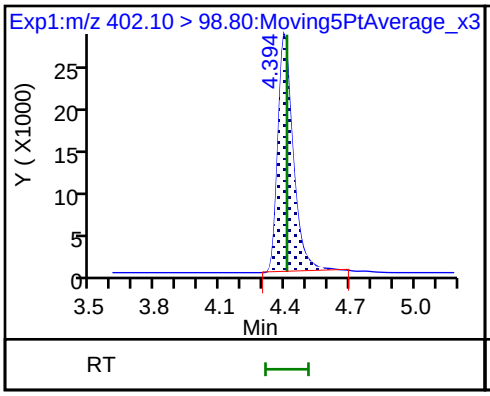
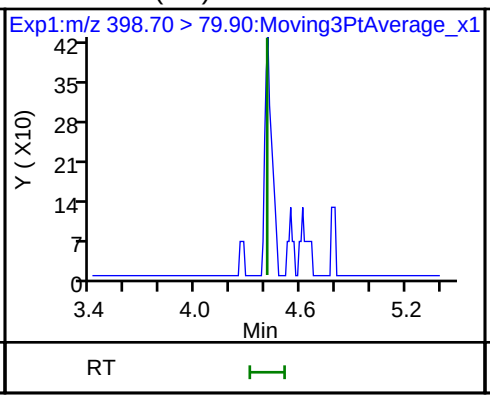
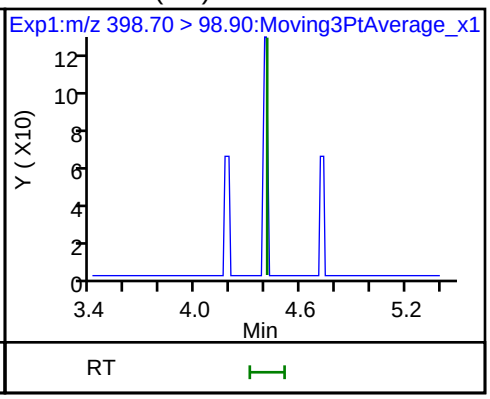


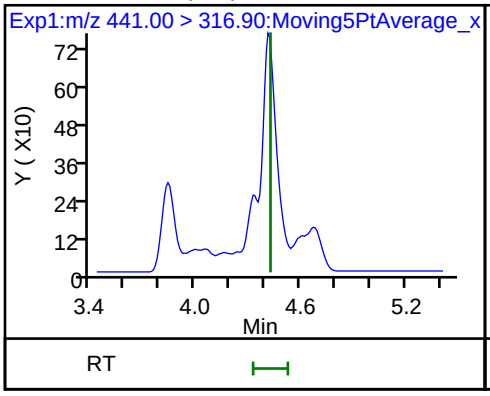
34 PFHxS (ND)



34 PFHxS (ND)



33 7:3 FTCA (ND)



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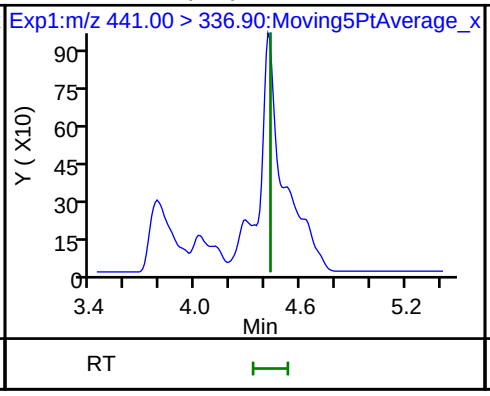

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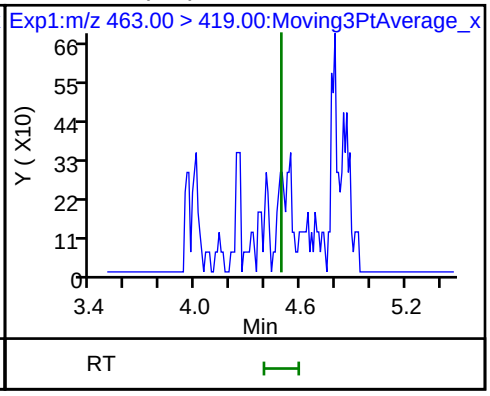

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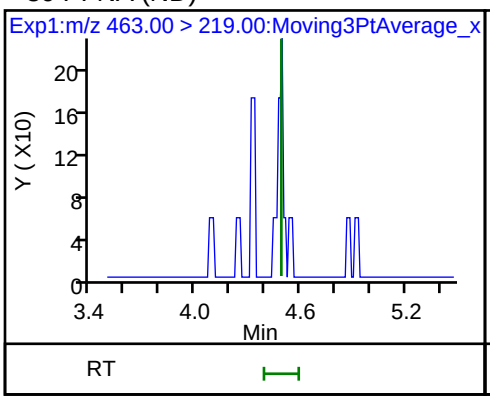
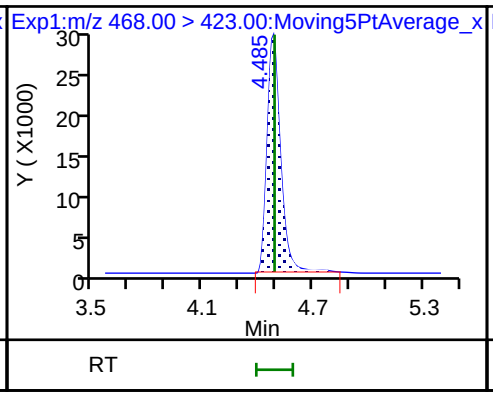
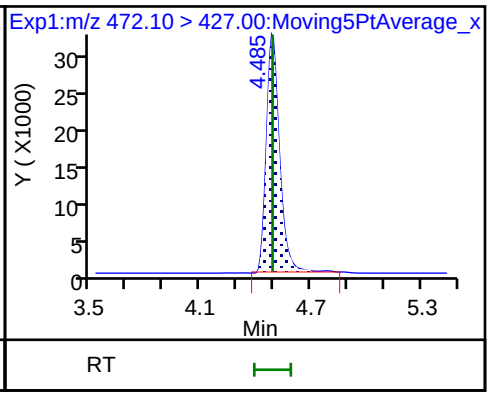


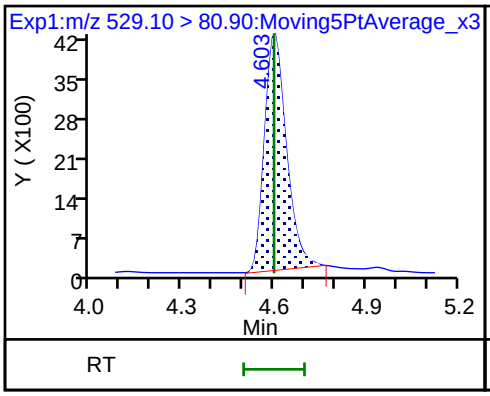
* 37 13C5 PFNA



D 38 13C9 PFNA



D 41 13C2-8:2FTS



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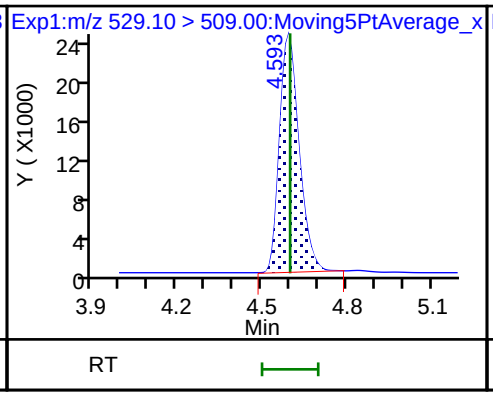

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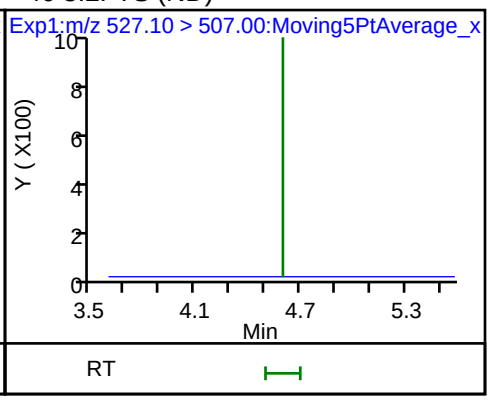

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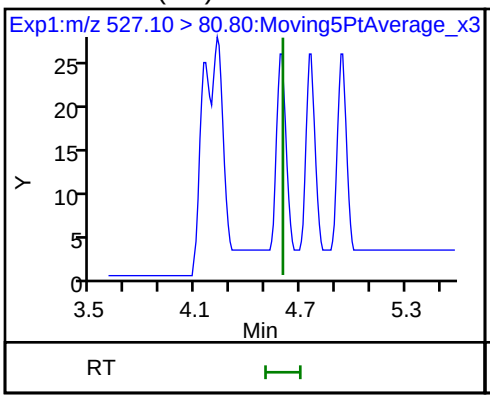

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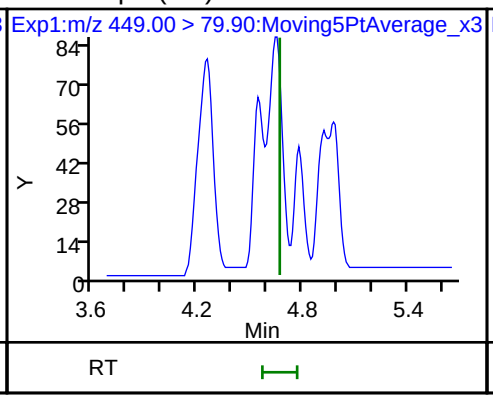

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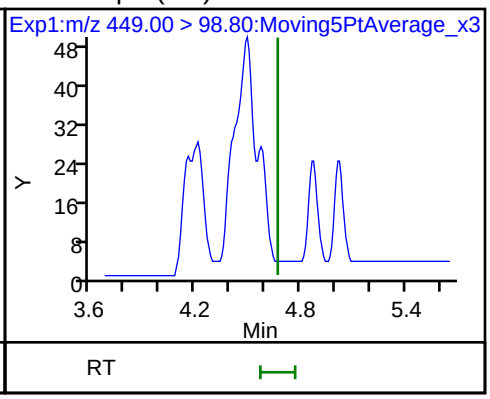
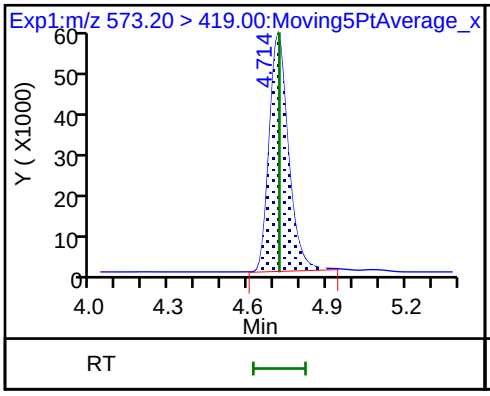


D 44 d3-NMeFOSAA



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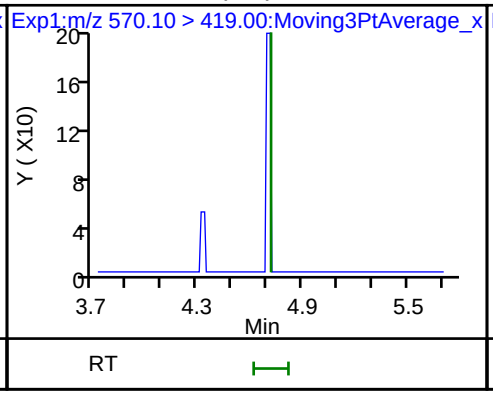

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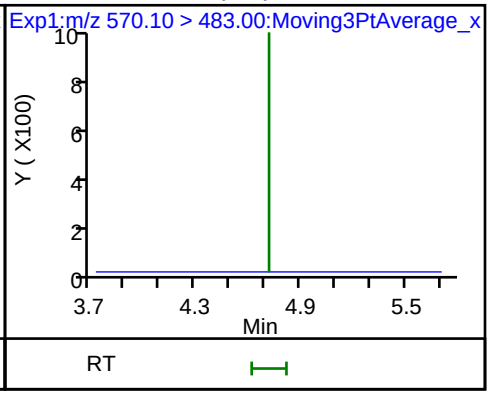
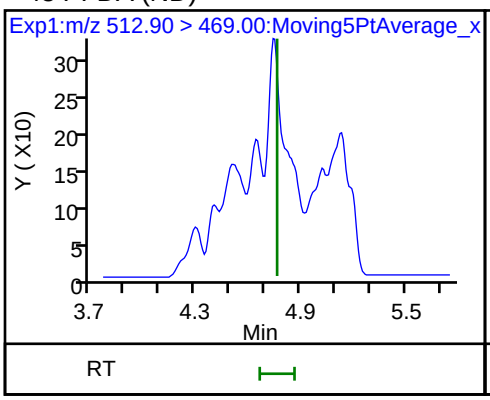


45 PFDA (ND)



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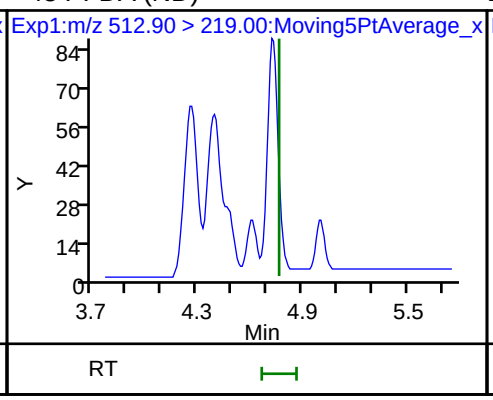
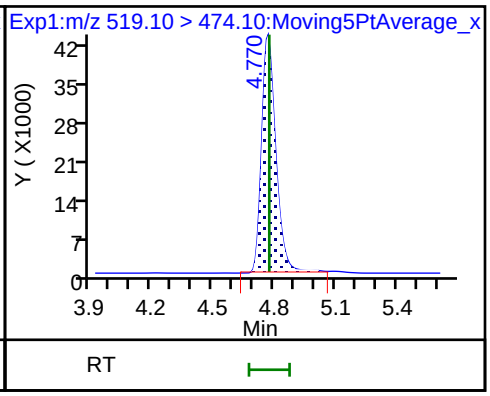
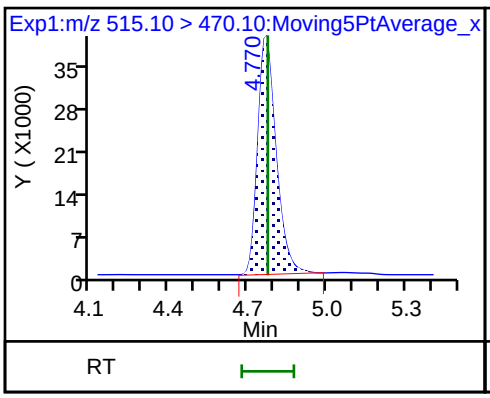


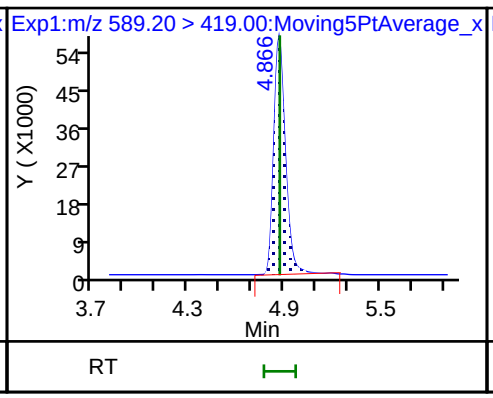
D 47 13C6 PFDA



* 46 13C2 PFDA



D 49 d5-NEtFOSAA



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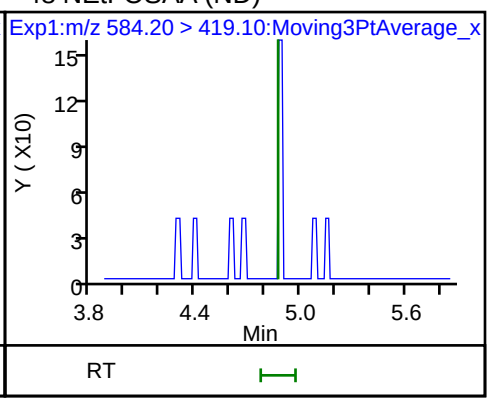

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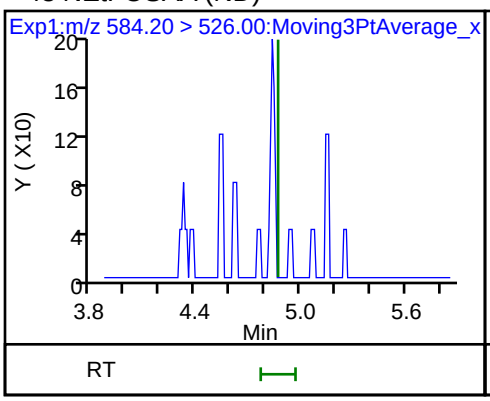

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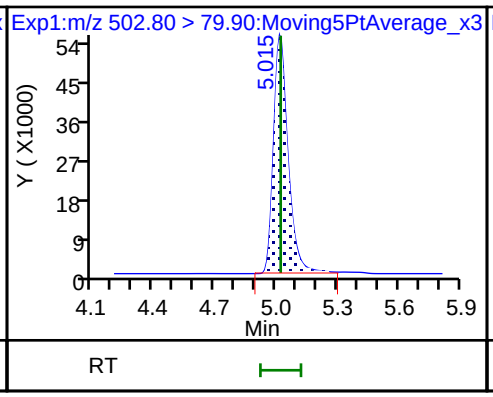

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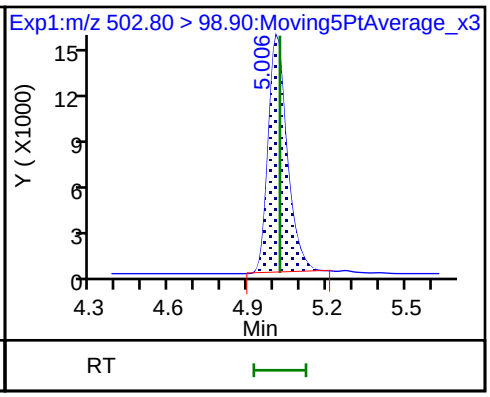
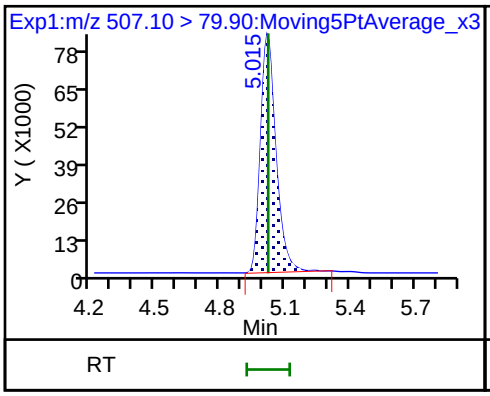
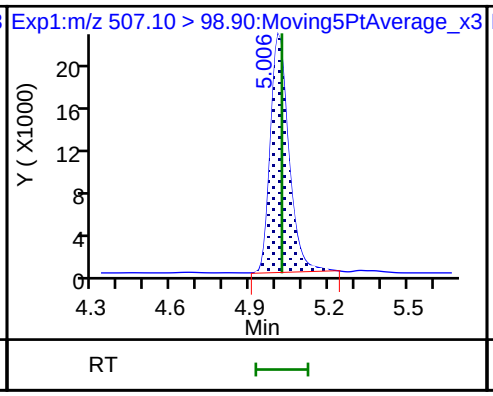


D 51 13C8 PFOS



D 51 13C8 PFOS



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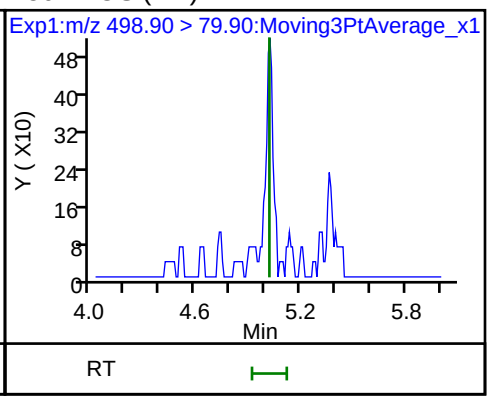

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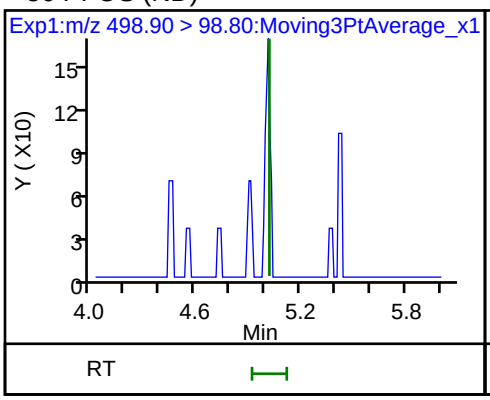

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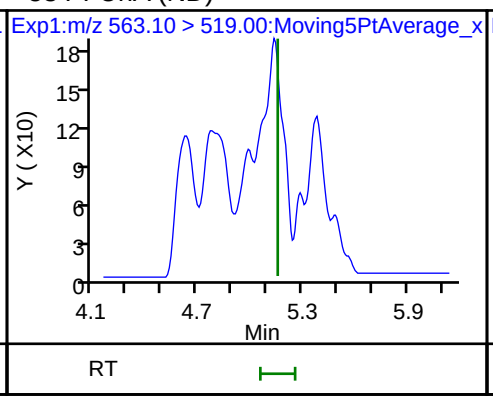

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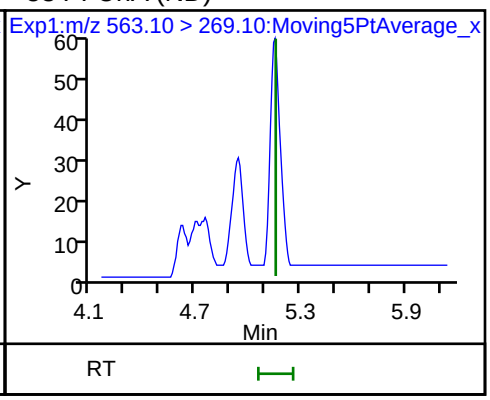
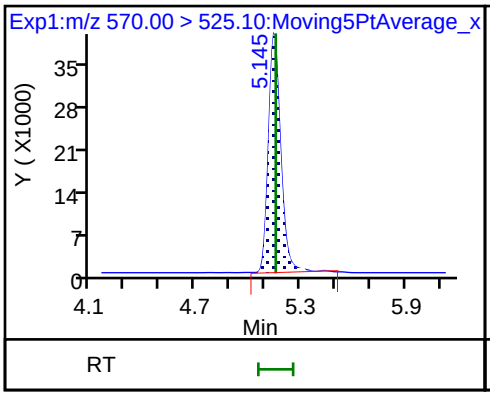


D 54 13C7 PFUnA



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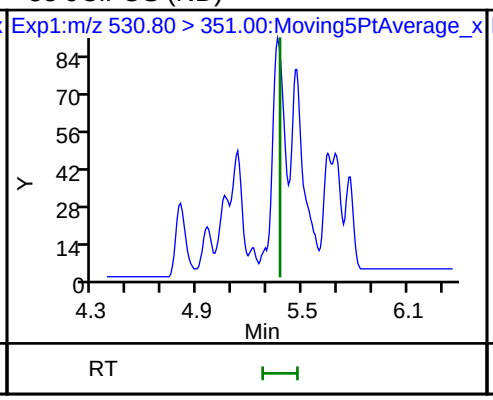

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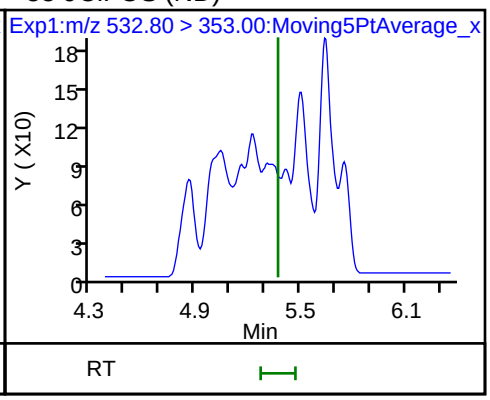

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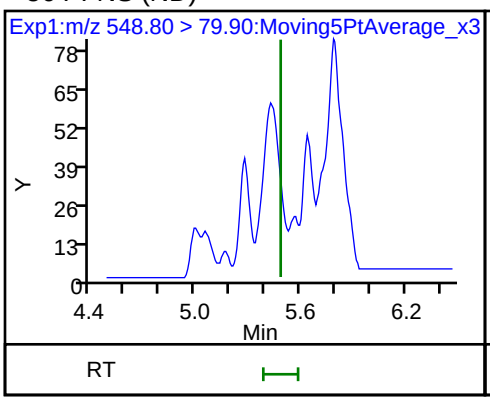

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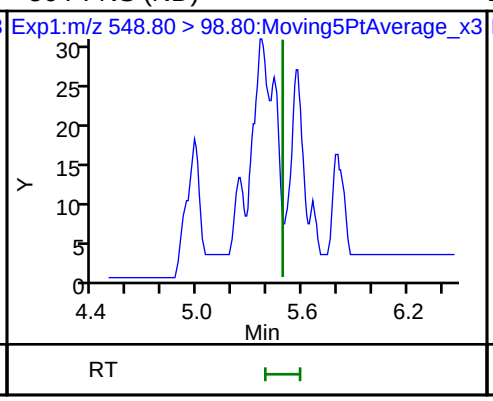
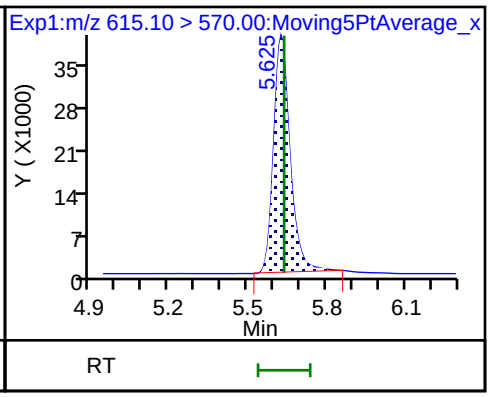


D 58 PFDoDA



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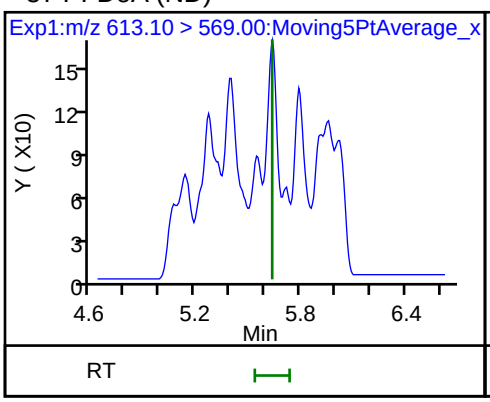

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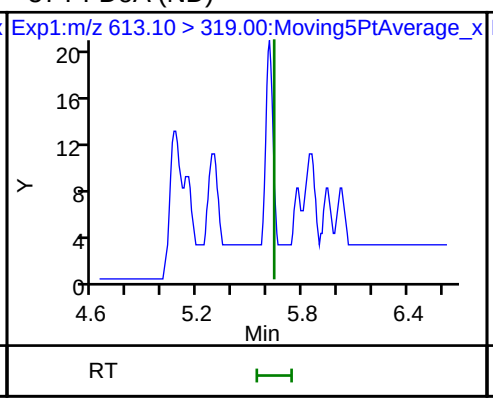

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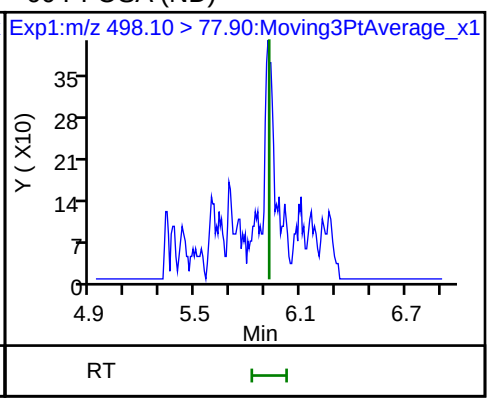

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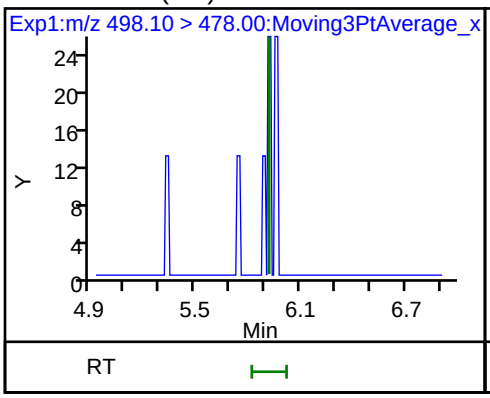
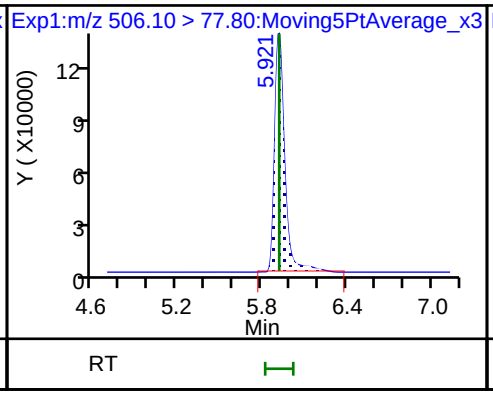
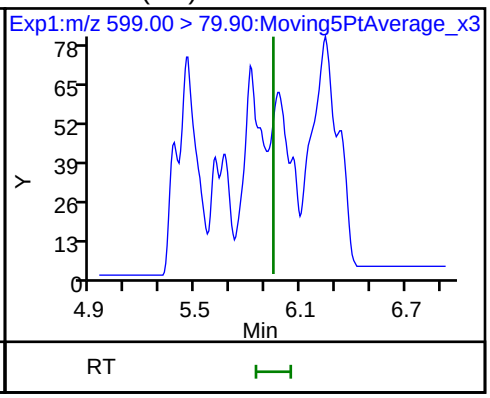


D 59 13C8 FOSA



61 PFDS (ND)



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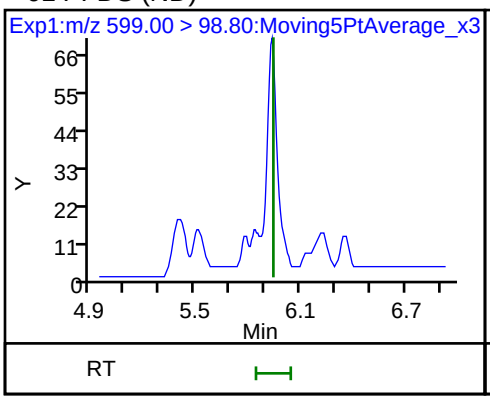

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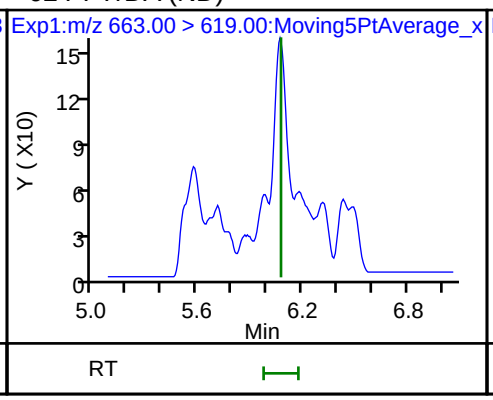

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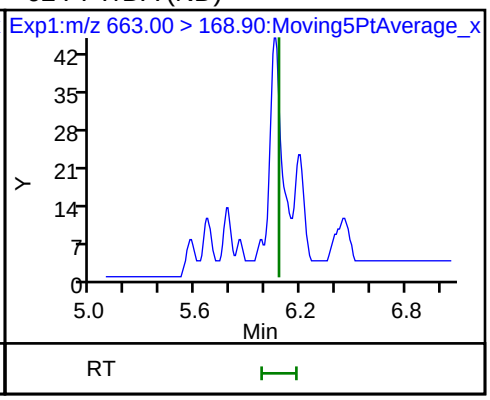

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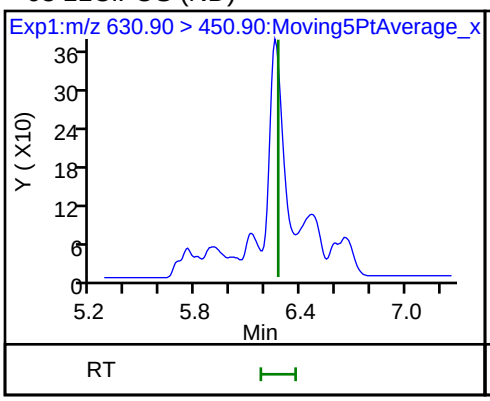
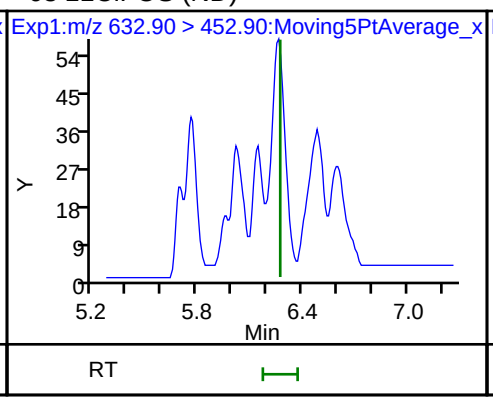
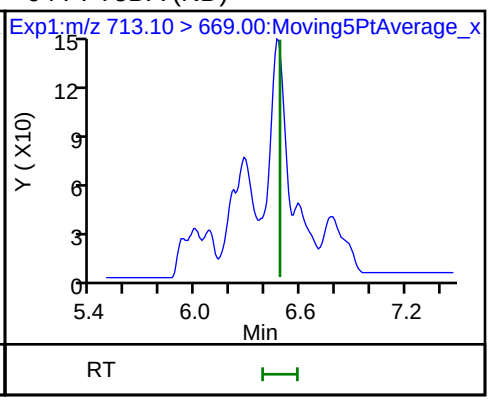


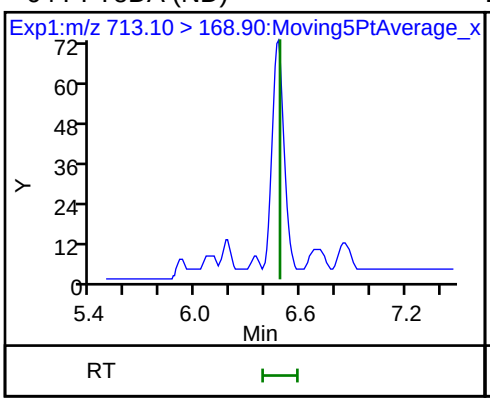
63 11ClFOS (ND)



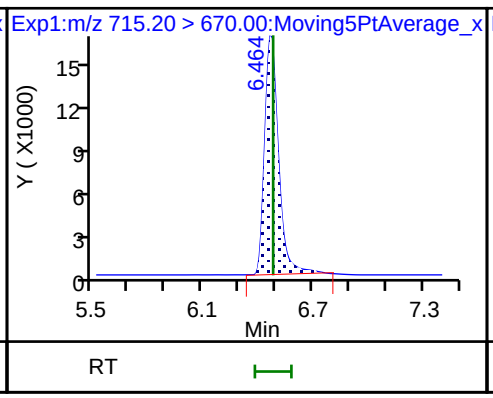
64 PFTeDA (ND)



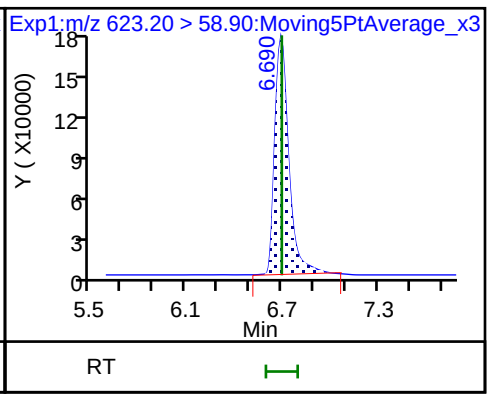
64 PFTeDA (ND)



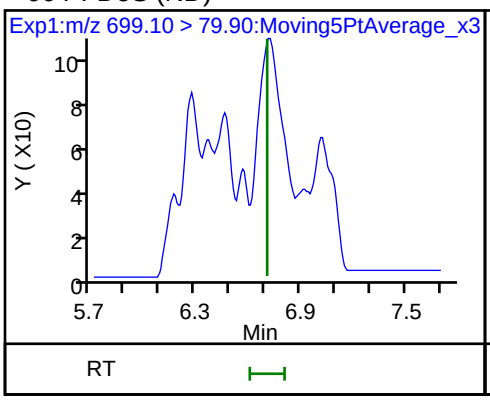
D 65 13C2 PFTeDA



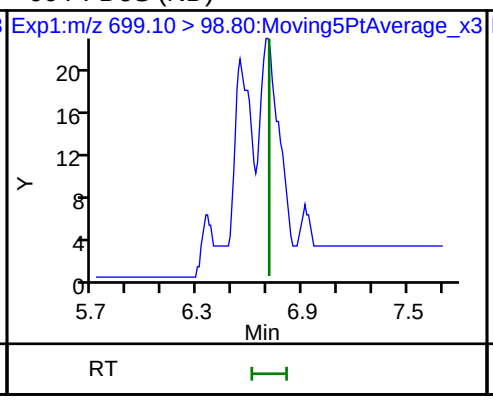
D 67 d7-N-Me-FOSE



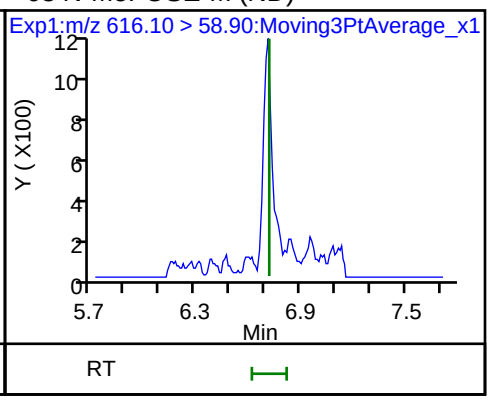
66 PFDoS (ND)



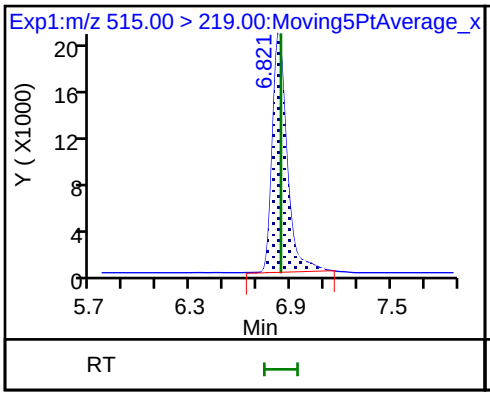
66 PFDoS (ND)



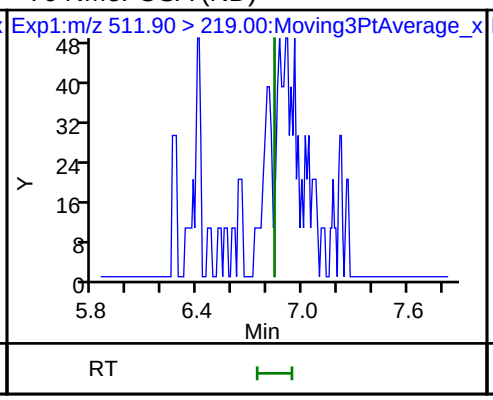
68 N-MeFOSE-M (ND)



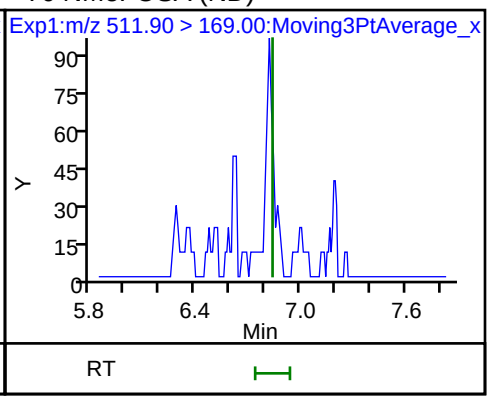
D 69 d3-NMePFOSA



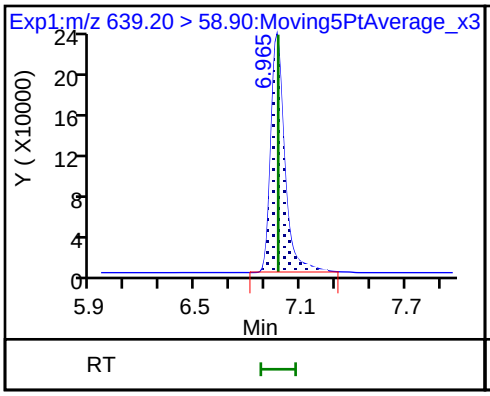
70 NMeFOSA (ND)



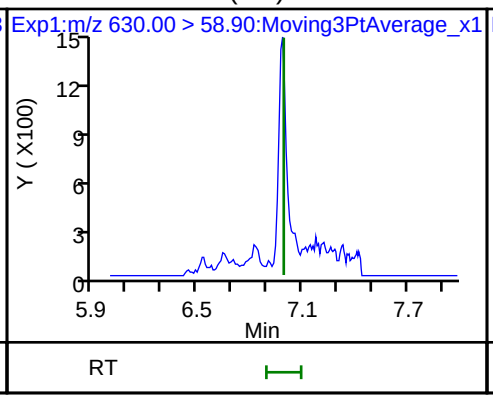
70 NMeFOSA (ND)



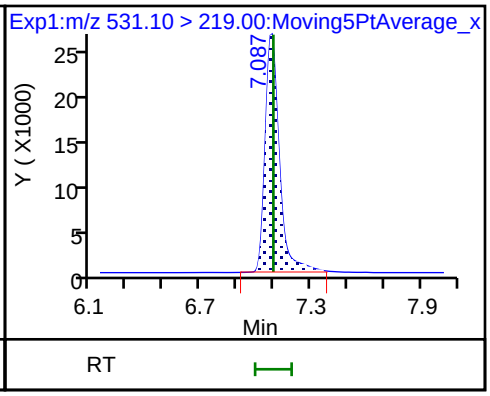
D 71 d9-N-EtFOSE



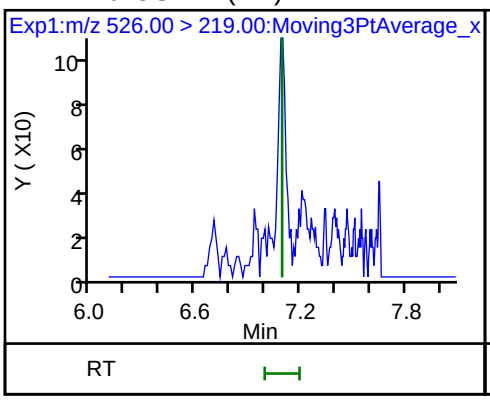
72 N-EtFOSE-M (ND)



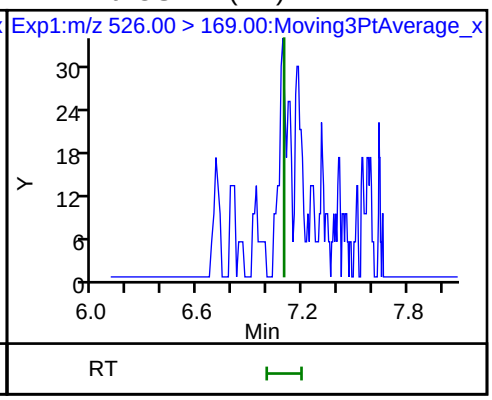
D 73 d5-NEtPFOSA



74 N-EtFOSA-M (ND)



74 N-EtFOSA-M (ND)



FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-397379/2-A

Matrix: Water Lab File ID: 23AUG08-54.d

Analysis Method: 1633 Date Collected:

Extraction Method: 1633 Date Extracted: 07/17/2023 07:22

Sample wt/vol: 500(mL) Date Analyzed: 08/08/2023 22:06

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	96.75		8.00	1.00
355-46-4	Perfluorohexanesulfonic acid	21.70		2.00	0.57
2058-94-8	Perfluoroundecanoic acid	25.73		2.00	0.50
335-67-1	Perfluorooctanoic acid	24.64		2.00	0.64
335-77-3	Perfluorodecanesulfonic acid	23.61		2.00	0.50
376-06-7	Perfluorotetradecanoic acid	26.85		2.00	0.50
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	85.03		8.00	1.50
31506-32-8	NMeFOSA	28.05		2.00	0.50
812-70-4	7:3 FTCA	618.8		50.0	10.0
335-76-2	Perfluorodecanoic acid	26.76		2.00	0.50
72629-94-8	Perfluorotridecanoic acid	25.09		2.00	0.50
113507-82-7	PFEESA	50.51		4.00	0.50
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	27.47		2.00	0.50
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	108.3		8.00	1.70
375-95-1	Perfluorononanoic acid	23.65		2.00	0.50
13252-13-6	HFPO-DA	98.29		8.00	2.00
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	258.4		20.0	5.00
2706-91-4	Perfluoropentanesulfonic acid	24.48		2.00	0.50
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	69.61		8.00	2.50
68259-12-1	Perfluorononanesulfonic acid	24.78		2.00	0.40
375-85-9	Perfluoroheptanoic acid	23.79		2.00	0.52
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	91.95		8.00	2.00
1763-23-1	Perfluorooctanesulfonic acid	21.56		2.00	0.50
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	96.16		8.00	2.60
377-73-1	Perfluoro-3-methoxypropanoic acid	49.86		4.00	0.50
375-22-4	Perfluorobutanoic acid	96.01		8.00	2.00
2991-50-6	NEtFOSAA	25.74		2.00	0.70

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-282979-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-397379/2-A

Matrix: Water
Lab File ID: 23AUG08-54.d

Analysis Method: 1633
Date Collected:

Extraction Method: 1633
Date Extracted: 07/17/2023 07:22

Sample wt/vol: 500(mL)
Date Analyzed: 08/08/2023 22:06

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 2(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691
Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-55-1	Perfluorododecanoic acid	25.38		2.00	0.50
307-24-4	Perfluorohexanoic acid	26.76		2.00	0.50
863090-89-5	Perfluoro(4-methoxybutanoic acid)	50.53		4.00	1.00
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	53.61		4.00	1.00
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	20.40		2.00	0.90
2706-90-3	Perfluoropentanoic acid	48.72		4.00	1.00
914637-49-3	5:3 FTCA	647.2		50.0	10.0
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	254.6		20.0	5.00
754-91-6	Perfluorooctanesulfonamide	25.10		2.00	0.50
356-02-5	3:3 FTCA	120.0		10.0	1.50
2355-31-9	NMeFOSAA	25.44		4.00	1.20
375-73-5	Perfluorobutanesulfonic acid	22.47		2.00	0.30
375-92-8	Perfluoroheptanesulfonic acid	23.60		2.00	0.40

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-397379/2-A

Matrix: Water Lab File ID: 23AUG08-54.d

Analysis Method: 1633 Date Collected:

Extraction Method: 1633 Date Extracted: 07/17/2023 07:22

Sample wt/vol: 500(mL) Date Analyzed: 08/08/2023 22:06

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	97.2		10-130
STL01893	13C5 PFPeA	102		40-150
STL02577	13C5 PFHxA	94.9		40-150
STL01892	13C4 PFHpA	104		40-150
STL01052	13C8 PFOA	92.1		30-140
STL02578	13C9 PFNA	116		30-140
STL02579	13C6 PFDA	91.5		20-140
STL02580	13C7 PFUnA	96.2		20-140
STL02703	13C2-PFDoDA	93.6		10-150
STL02116	13C2 PFTeDA	88.1		10-130
STL02337	13C3 PFBS	109		25-150
STL02581	13C3 PFHxS	95.9		25-150
STL01054	13C8 PFOS	99.3		20-140
STL01056	13C8 FOSA	97.8		10-130
STL02118	d3-NMeFOSAA	91.0		10-200
STL02117	d5-NEtFOSAA	90.6		10-200
STL02395	M2-4:2 FTS	96.7		25-200
STL02279	M2-6:2 FTS	133	I	25-200
STL02280	M2-8:2 FTS	101		25-200
STL02255	13C3 HFPO-DA	100		25-160
STL02277	d7-N-MeFOSE-M	80.6		10-150
STL02278	d9-N-EtFOSE-M	80.8		10-150
STL02704	d5-NEtPFOSA	62.4		10-130
STL02705	d3-NMePFOSA	59.0		10-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-54.d
Lims ID: LCS 410-397379/2-A
Client ID:
Sample Type: LCS
Inject. Date: 08-Aug-2023 22:06:02 ALS Bottle#: 39 Worklist Smp#: 49
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-397379/2-A
Misc. Info.: Plate: 1 Rack: 1 410-0090889-049
Operator ID: US19_USR_INS20263 Instrument ID: 30729

Method: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\PFAS_30729_1633.m
Limit Group: LC - 1633 ICAL
Last Update: 09-Aug-2023 09:51:16 Calib Date: 05-Aug-2023 11:25:28
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-11.d

Column 1 : Det: EXP1
Process Host: CTX1649

First Level Reviewer: QY4X Date: 09-Aug-2023 09:20:13
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4-PFBA										
216.80 > 171.90	2.925	2.932	-0.007	1.000	1347939	9.72		97.2	80234	
* 3 13C3PFBA										
216.00 > 172.00	2.925	2.932	-0.007		854043	5.00			1669	
1 PFBA										
212.80 > 168.90	2.925	2.942	-0.017	1.000	1080672	9.60		95.9	5255	
4 PFMPA										
229.00 > 84.90	3.156	3.167	-0.011	0.919	725053	4.99		99.6	50571	
5 3:3 FTCA										
241.00 > 177.00	3.156	3.167	-0.011	0.919	87328	12.0	Target=1.11	95.9	6191	
241.00 > 117.00	3.156	3.167	-0.011	0.919	80996		1.08(0.55-1.66)		2949	
D 7 13C5 PFPeA										
268.30 > 223.00	3.435	3.444	-0.009	0.916	401298	5.11		102	24733	
6 PFPA										M
263.00 > 219.00	3.435	3.447	-0.012	1.000	708022	4.87	Target=1273.32	97.3	18581	
263.00 > 68.90	3.435	3.447	-0.012	1.000	444		1594.64(636.66-1909.99)		29.3	M
8 PFMBA										
279.00 > 85.10	3.548	3.562	-0.014	1.033	590014	5.05		101	36653	
D 10 13C2-4:2FTS										
329.10 > 80.90	3.627	3.638	-0.011	0.826	64242	4.54	Target=0.35	96.7	2986	
329.10 > 309.00	3.616	3.638	-0.022	0.823	185539		0.35(0.18-0.53)	96.7	8905	
9 4:2FTS										
327.10 > 307.00	3.627	3.642	-0.015	1.000	397345	10.8	Target=1.40	115	24303	
327.10 > 80.90	3.627	3.642	-0.015	1.000	244826		1.62(0.70-2.10)		14407	
12 NFDHA										
295.00 > 201.00	3.719	3.734	-0.015	0.995	68091	5.36	Target=2.17	107	4542	
295.00 > 84.90	3.719	3.734	-0.015	0.995	31900		2.13(1.08-3.25)		2196	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 14 13C5 PFHxA										
318.00 > 273.00	3.739	3.750	-0.011	0.997	45319	2.37	Target=15.34	94.9	3113	
318.00 > 120.30	3.739	3.750	-0.011	0.997	3541		12.80(7.67-23.01)	94.9	222	
* 15 13C2 PFHxA										
315.10 > 270.00	3.750	3.750	0.0		273141	2.50	Target=103.53		17184	
315.10 > 119.40	3.739	3.750	-0.011		2035		134.22(51.76-155.29)		139	
13 PFHxA										
313.00 > 269.00	3.739	3.755	-0.016	1.000	263422	2.68	Target=13.63	107	10096	
313.00 > 118.90	3.739	3.755	-0.016	1.000	18308		14.39(6.82-20.45)		1238	
D 18 13C3 PFBS										
302.10 > 79.90	3.844	3.856	-0.012	0.875	505757	2.53	Target=6.99	109	31246	
302.10 > 98.90	3.844	3.856	-0.012	0.875	78198		6.47(3.50-10.49)	109	5035	
17 PFBS										
298.70 > 79.90	3.844	3.860	-0.016	1.000	294973	2.25	Target=3.41	101	17892	
298.70 > 98.80	3.844	3.860	-0.016	1.000	87054		3.39(1.70-5.11)		5146	
16 5:3 FTCA										
341.00 > 237.10	3.844	3.860	-0.016	1.028	1885152	64.7	Target=2.68	103	113457	
341.00 > 217.00	3.834	3.860	-0.026	1.025	675211		2.79(1.34-4.01)		41531	
D 20 13C3 HFPO-DA										
286.90 > 168.90	3.867	3.867	0.0	1.031	1206583	10.0	Target=29.00	100	72851	
286.90 > 184.90	3.855	3.867	-0.012	1.028	38300		31.50(14.50-43.50)	100	2397	
19 HFPO-DA										
284.90 > 168.90	3.867	3.872	-0.005	1.000	811731	9.83	Target=17.67	98.3	2102	
284.90 > 184.90	3.855	3.872	-0.017	0.997	43084		18.84(8.84-26.51)		2740	
23 PFEESA										
314.80 > 134.90	3.996	4.012	-0.016	1.069	2626336	5.05	Target=14.15	113	126733	
314.80 > 82.90	3.986	4.012	-0.026	1.066	172428		15.23(7.08-21.23)		5450	
D 25 13C4 PFHpA										
367.10 > 322.00	4.007	4.018	-0.011	1.069	593724	2.59		104	36857	
24 PFHpA										
363.10 > 319.00	4.007	4.022	-0.015	1.000	533372	2.38	Target=3.62	95.0	24812	
363.10 > 169.00	3.996	4.022	-0.026	0.997	145583		3.66(1.81-5.44)		9507	
26 ADONA										
376.90 > 250.90	4.094	4.111	-0.017	1.059	1983013	8.50	Target=12.84	90.0	88397	
376.90 > 84.80	4.083	4.111	-0.028	1.056	162633		12.19(6.42-19.27)		9921	
D 29 13C2-6:2FTS										R
429.10 > 80.90	4.117	4.129	-0.012	0.938	46193	6.32	Target=0.12	133	2872	R
429.10 > 409.00	4.106	4.129	-0.023	0.935	219332		0.21(0.06-0.18)	133	13339	
27 6:2FTS										
427.10 > 407.00	4.117	4.132	-0.015	1.000	308591	6.96	Target=1.71	73.2	18334	
427.10 > 80.90	4.117	4.132	-0.015	1.000	186780		1.65(0.85-2.56)		11202	
28 PFPeS										
349.10 > 79.90	4.139	4.155	-0.016	0.943	503243	2.45	Target=3.85	104	30423	
349.10 > 98.90	4.139	4.155	-0.016	0.943	123579		4.07(1.93-5.78)		7667	
32 PFOA										
413.00 > 369.00	4.239	4.250	-0.011	1.000	313295	2.46	Target=2.36	98.4	340	
413.00 > 169.00	4.239	4.250	-0.011	1.000	128213		2.44(1.18-3.53)		394	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 30 13C4 PFOA										
417.10 > 172.00	4.250	4.261	-0.011		29402	2.50			1830	
D 31 13C8 PFOA										
421.10 > 376.00	4.239	4.261	-0.022	0.998	643476	2.30		92.1	39768	
* 35 18O2 PFHxS										
403.00 > 83.90	4.391	4.401	-0.010		457106	2.37			30518	
D 36 13C3 PFHxS										
402.10 > 79.90	4.391	4.411	-0.020	1.000	494157	2.27	Target=3.90	95.9	25179	
402.10 > 98.80	4.391	4.411	-0.020	1.000	128684		3.84(1.95-5.85)	95.9	8769	
34 PFHxS										
398.70 > 79.90	4.391	4.413	-0.022	1.000	238274	2.17	Target=3.39	94.8	1066	
398.70 > 98.90	4.391	4.413	-0.022	1.000	73991		3.22(1.69-5.08)		284	
33 7:3 FTCA										
441.00 > 316.90	4.419	4.434	-0.015	1.182	1278090	61.9	Target=0.66	98.9	84387	
441.00 > 336.90	4.410	4.434	-0.024	1.179	1865597		0.69(0.33-1.00)		121118	
* 37 13C5 PFNA										
468.00 > 423.00	4.471	4.493	-0.022		145762	1.25			9689	
39 PFNA										
463.00 > 419.00	4.481	4.493	-0.012	1.000	284730	2.37	Target=5.25	94.5	662	
463.00 > 219.00	4.471	4.493	-0.022	0.998	48463		5.88(2.63-7.88)		200	
D 38 13C9 PFNA										
472.10 > 427.00	4.481	4.493	-0.012	1.002	179133	1.45		116	12290	
D 41 13C2-8:2FTS										
529.10 > 80.90	4.589	4.601	-0.012	1.045	18868	4.83	Target=0.14	101	1310	
529.10 > 509.00	4.589	4.601	-0.012	1.045	145153		0.13(0.07-0.21)	101	9433	
40 8:2FTS										
527.10 > 507.00	4.589	4.614	-0.025	1.000	212223	9.62	Target=1.21	100	14272	
527.10 > 80.80	4.579	4.614	-0.035	0.998	200588		1.06(0.60-1.81)		9919	
42 PFHpS										
449.00 > 79.90	4.659	4.685	-0.026	0.931	434583	2.36	Target=3.73	98.9	21547	
449.00 > 98.80	4.659	4.685	-0.026	0.931	107619		4.04(1.86-5.59)		6952	
D 44 d3-NMeFOSAA										
573.20 > 419.00	4.710	4.723	-0.013	0.941	291803	4.55		91.0	18591	
43 NMeFOSAA										
570.10 > 419.00	4.710	4.725	-0.015	1.000	139129	2.54	Target=1.77	102	384	
570.10 > 483.00	4.701	4.725	-0.024	0.998	76844		1.81(0.89-2.66)		203	
* 46 13C2 PFDA										
515.10 > 470.10	4.757	4.778	-0.021		220031	1.25			15165	
D 47 13C6 PFDA										
519.10 > 474.10	4.757	4.778	-0.021	1.000	203016	1.14		91.5	10501	
45 PFDA										
512.90 > 469.00	4.757	4.781	-0.024	1.000	309072	2.68	Target=6.01	107	9357	
512.90 > 219.00	4.757	4.781	-0.024	1.000	52403		5.90(3.00-9.01)		3661	
D 49 d5-NEtFOSAA										
589.20 > 419.00	4.854	4.874	-0.020	0.970	270396	4.53		90.6	13537	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
48 NEtFOSAA										
584.20 > 419.10	4.863	4.886	-0.023	1.002	104132	2.57	Target=1.68	103	397	
584.20 > 526.00	4.863	4.886	-0.023	1.002	67515		1.54(0.84-2.53)		227	
* 52 13C4 PFOS										
502.80 > 79.90	5.003	5.033	-0.030		308763	2.40	Target=4.18		20966	
502.80 > 98.90	4.994	5.033	-0.039		83469		3.70(2.09-6.27)		5821	
D 51 13C8 PFOS										
507.10 > 79.90	5.003	5.033	-0.030	1.000	436586	2.38	Target=3.96	99.3	17403	
507.10 > 98.90	4.994	5.033	-0.039	0.998	103753		4.21(1.98-5.94)	99.3	5272	
50 PFOS										
498.90 > 79.90	5.003	5.044	-0.041	1.000	362105	2.16	Target=4.55	92.8	2483	
498.90 > 98.80	5.003	5.044	-0.041	1.000	81770		4.43(2.28-6.83)		635	
D 54 13C7 PFUnA										
570.00 > 525.10	5.132	5.170	-0.038	1.079	196277	1.20		96.2	7981	
53 PFUnA										
563.10 > 519.00	5.132	5.180	-0.048	1.000	357362	2.57	Target=11.29	103	14562	
563.10 > 269.10	5.132	5.180	-0.048	1.000	29050		12.30(5.64-16.93)		1949	
55 9ClFOS										
530.80 > 351.00	5.345	5.404	-0.059	1.382	2079774	9.68	Target=3.20	103	137925	
532.80 > 353.00	5.345	5.404	-0.059	1.382	660430		3.15(1.60-4.81)		43527	
56 PFNS										
548.80 > 79.90	5.457	5.506	-0.049	1.091	306060	2.48	Target=4.70	103	20976	
548.80 > 98.80	5.457	5.506	-0.049	1.091	70173		4.36(2.35-7.05)		3828	
D 58 PFDoDA										
615.10 > 570.00	5.609	5.646	-0.037	1.179	169384	1.17		93.6	7597	
57 PFDoA										
613.10 > 569.00	5.609	5.654	-0.045	1.000	324504	2.54	Target=16.23	101	13944	
613.10 > 319.00	5.609	5.654	-0.045	1.000	19389		16.74(8.12-24.35)		1374	
60 PFOSA										
498.10 > 77.90	5.912	5.915	-0.003	1.001	681062	2.51	Target=58.34	100	9462	
498.10 > 478.00	5.896	5.915	-0.019	0.999	10431		65.29(29.17-87.51)		248	
D 59 13C8 FOSA										
506.10 > 77.80	5.904	5.923	-0.019	1.180	657720	2.44		97.8	44651	
61 PFDS										
599.00 > 79.90	5.912	5.965	-0.053	1.182	458693	2.36	Target=4.36	97.7	32266	
599.00 > 98.80	5.912	5.965	-0.053	1.182	105162		4.36(2.18-6.54)		5903	
62 PFTrDA										
663.00 > 619.00	6.057	6.099	-0.042	0.939	260278	2.51	Target=3.59	100	18890	
663.00 > 168.90	6.057	6.099	-0.042	0.939	64775		4.02(1.79-5.38)		3737	
63 11ClFOS										
630.90 > 450.90	6.241	6.288	-0.047	1.614	2643506	9.19	Target=5.30	97.3	168654	
632.90 > 452.90	6.232	6.288	-0.056	1.612	506410		5.22(2.65-7.95)		32691	
D 65 13C2 PFTeDA										
715.20 > 670.00	6.452	6.485	-0.033	1.356	89822	1.10		88.1	5838	
64 PFTeDA										
713.10 > 669.00	6.452	6.498	-0.046	1.000	220672	2.68	Target=3.31	107	14134	
713.10 > 168.90	6.452	6.498	-0.046	1.000	59424		3.71(1.66-4.97)		3920	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 67 d7-N-Me-FOSE										
623.20 > 58.90	6.685	6.692	-0.007	1.336	891964	20.2		80.6	36836	
68 N-MeFOSE-M										
616.10 > 58.90	6.697	6.704	-0.007	1.002	1025128	25.8		103	7288	
66 PFDoS										
699.10 > 79.90	6.672	6.729	-0.057	1.333	413466	2.04	Target=4.96	84.0	22935	
699.10 > 98.80	6.672	6.729	-0.057	1.333	86664		4.77(2.48-7.44)		5026	
D 69 d3-NMePFOSA										
515.00 > 219.00	6.816	6.823	-0.007	1.362	77838	1.47		59.0	4339	
70 NMeFOSA										
511.90 > 219.00	6.828	6.823	0.005	1.002	69401	2.81	Target=0.78	112	1749	
511.90 > 169.00	6.816	6.823	-0.007	1.000	84848		0.82(0.39-1.17)		1392	
D 71 d9-N-EtFOSE										
639.20 > 58.90	6.952	6.957	-0.005	1.389	1097259	20.2		80.8	33174	
72 N-EtFOSE-M										
630.00 > 58.90	6.972	6.978	-0.006	1.003	1050474	25.5		102	15785	
D 73 d5-NEtPFOSA										
531.10 > 219.00	7.074	7.080	-0.006	1.414	88327	1.56		62.4	4308	
74 N-EtFOSA-M										
526.00 > 219.00	7.084	7.090	-0.006	1.001	93475	2.75	Target=3.00	110	1304	
526.00 > 169.00	7.084	7.090	-0.006	1.001	29961		3.12(1.50-4.50)		565	

QC Flag Legend

Processing Flags
R - Failed Signal Ratio Test
Review Flags
M - Manually Integrated

Reagents:

PFC_ST_02214 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 09-Aug-2023 09:52:19 Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-54.d

Injection Date: 08-Aug-2023 22:06:02 Instrument ID: 30729

Lims ID: LCS 410-397379/2-A

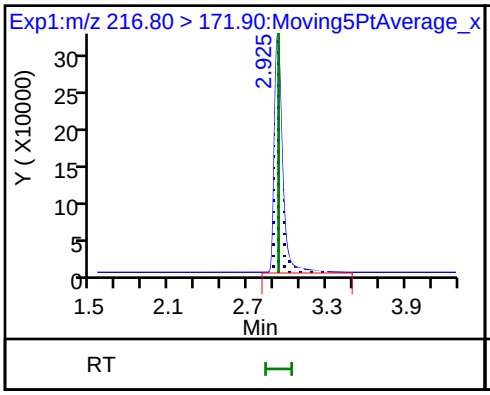
Client ID:

Operator ID: US19_USR_INS20263 ALS Bottle#: 39 Worklist Smp#: 49

Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: PFAS_30729_1633 Limit Group: LC - 1633 ICAL

D 2 13C4-PFBA



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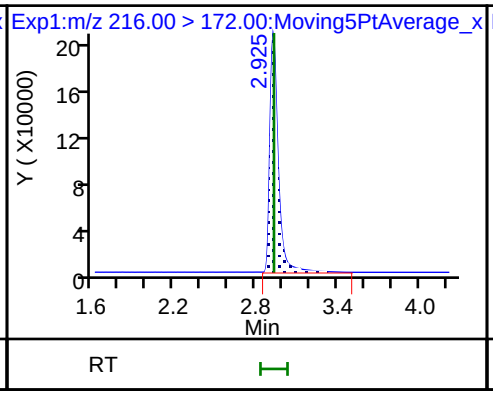
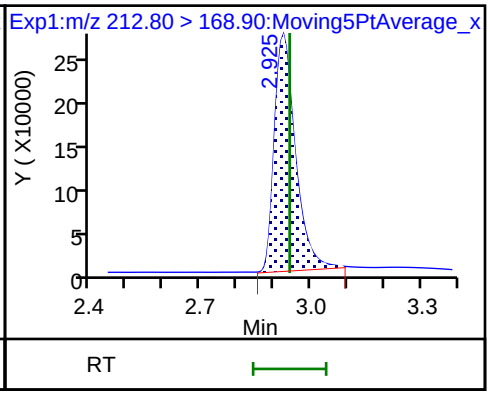
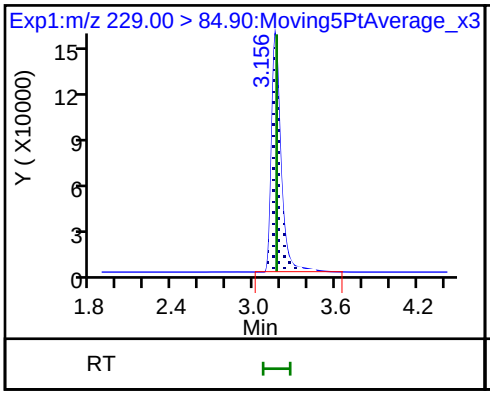


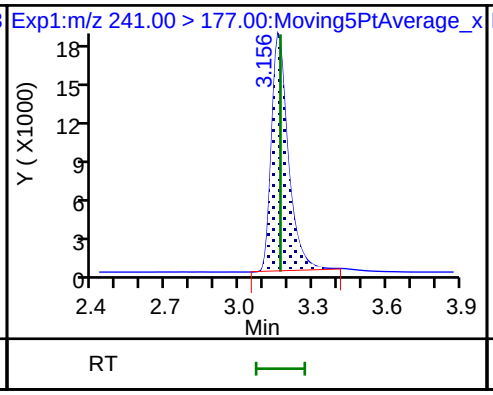
1 PFBA



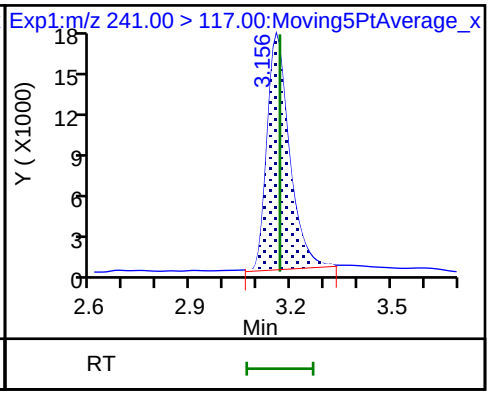
4 PFMPA



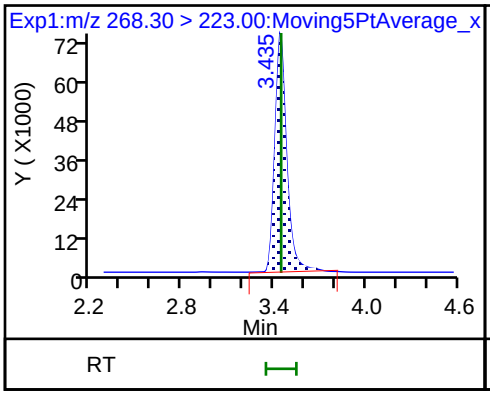
5 3:3 FTCA



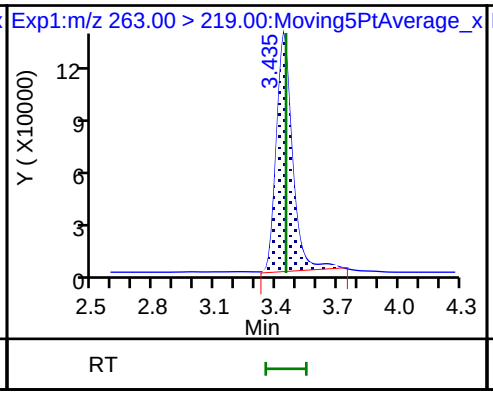
5 3:3 FTCA



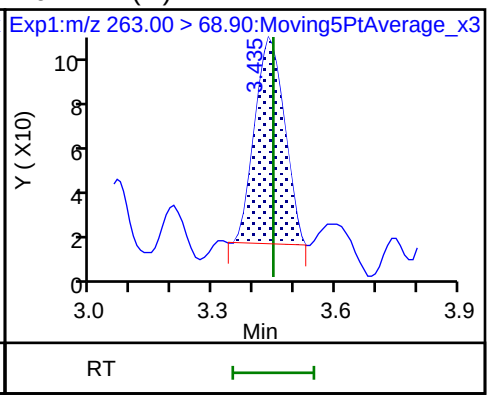
D 7 13C5 PFPeA



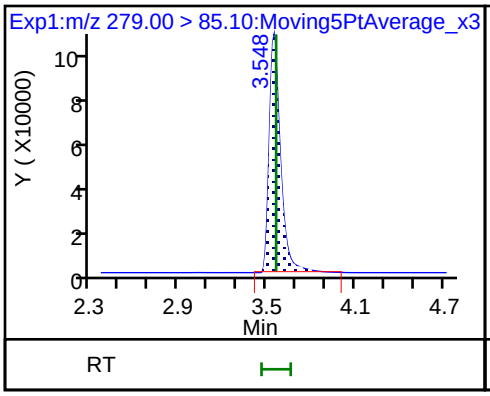
6 PFPA



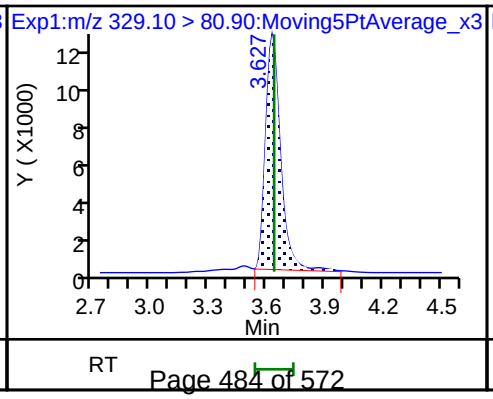
6 PFPA (M)



8 PFMBA



D 10 13C2-4:2FTS



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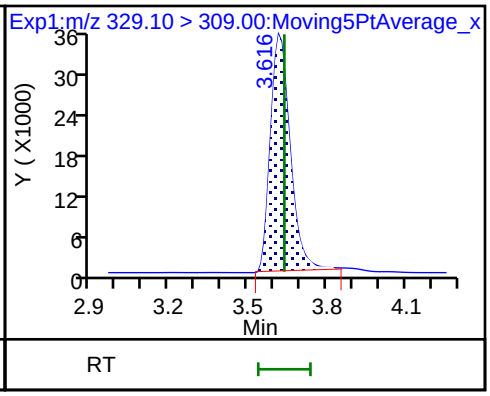

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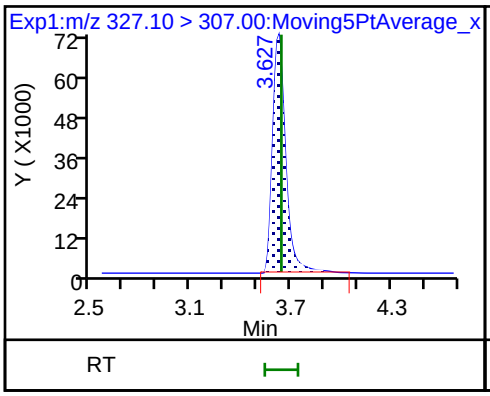

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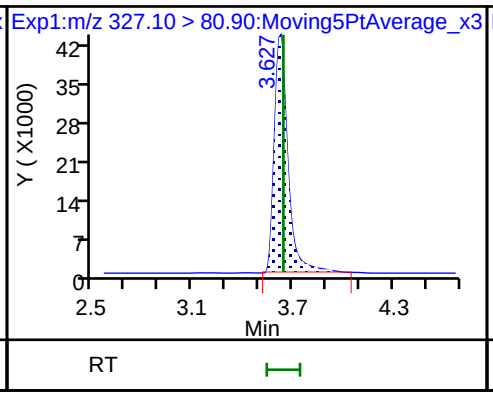
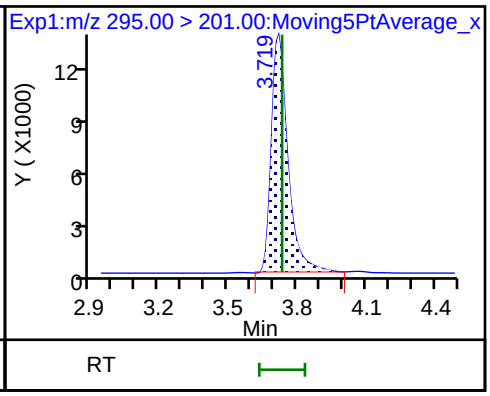
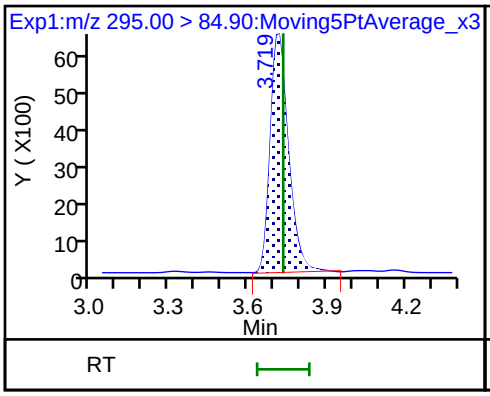


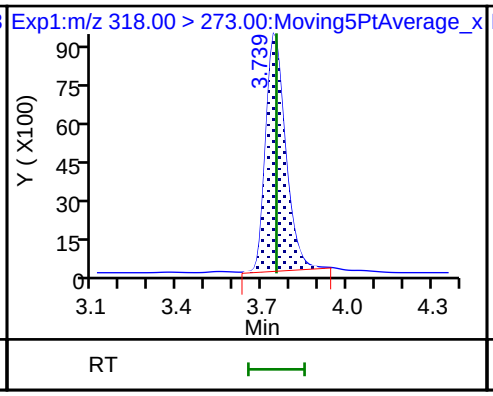
12 NFDHA



12 NFDHA



D 14 13C5 PFHxA



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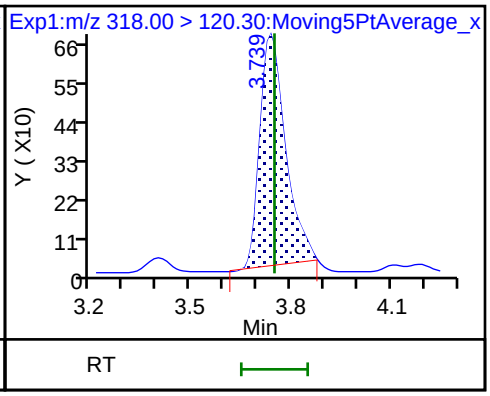

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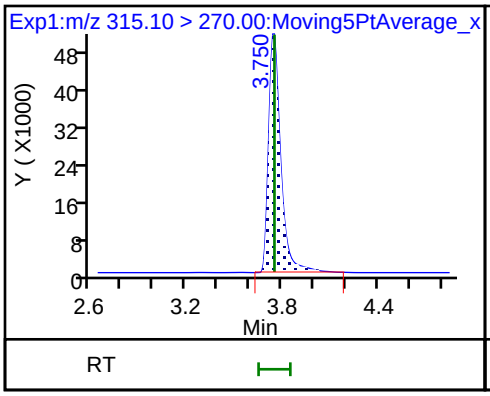

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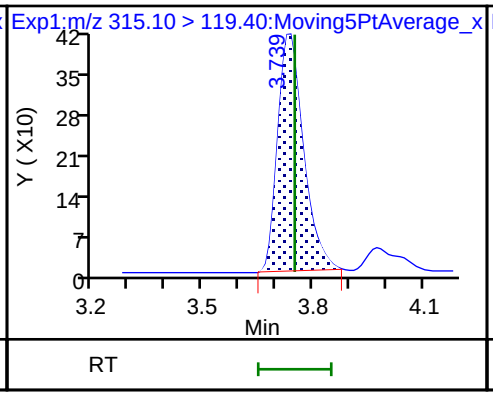
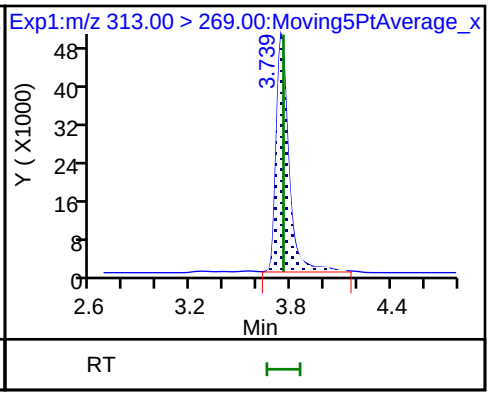
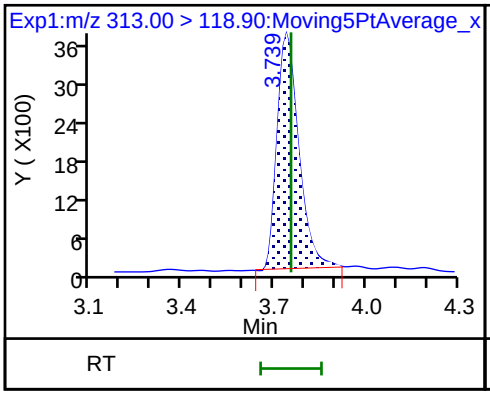


13 PFHxA



13 PFHxA



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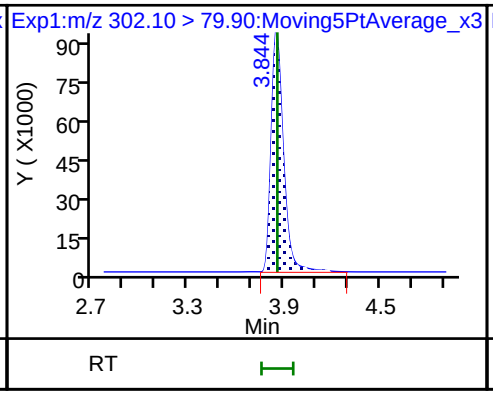

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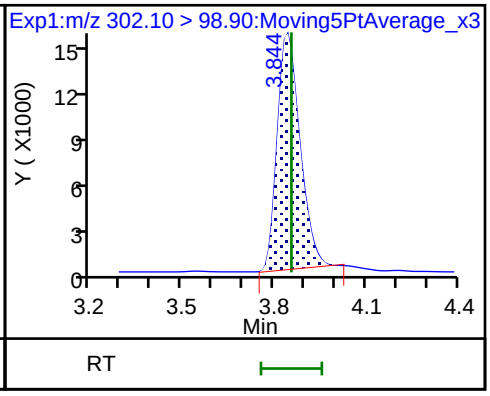

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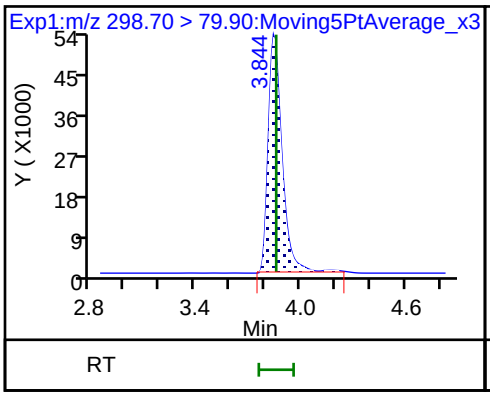

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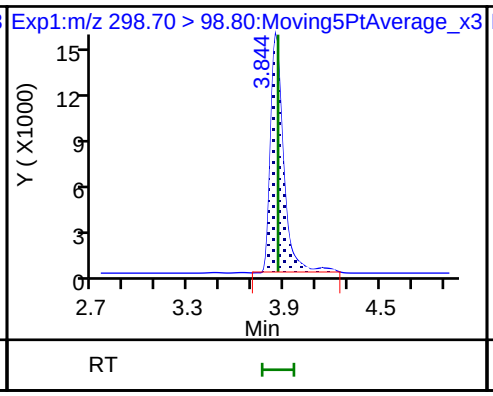
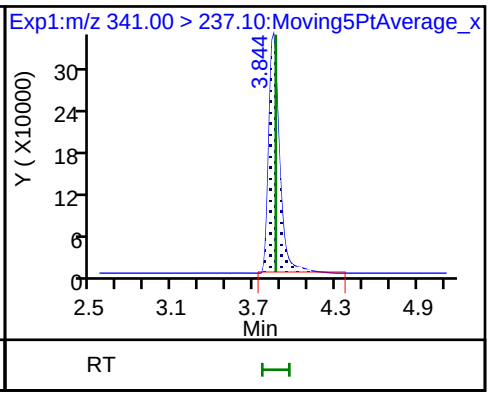
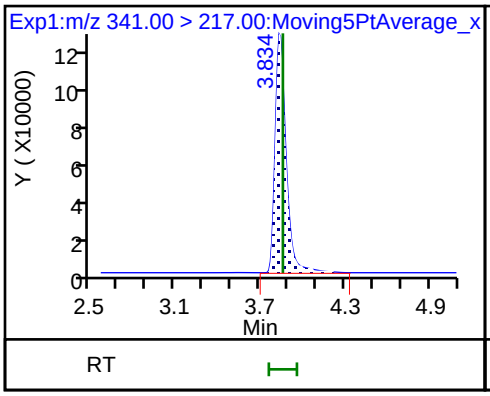


16 5:3 FTCA



16 5:3 FTCA



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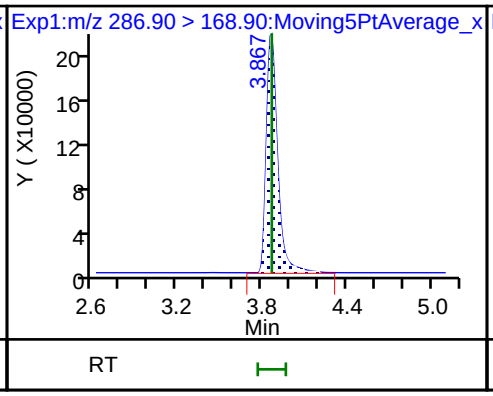

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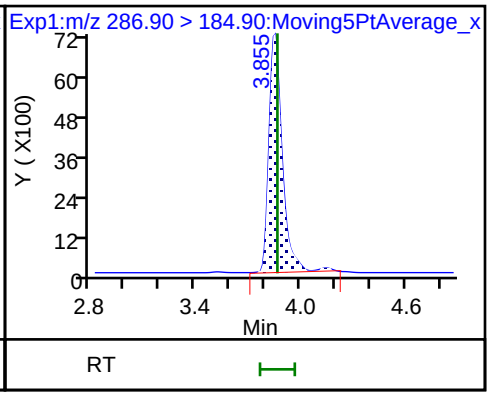

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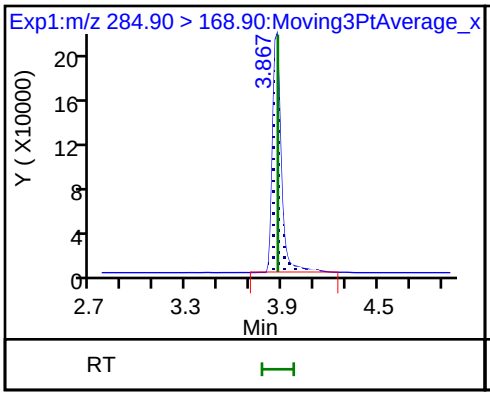

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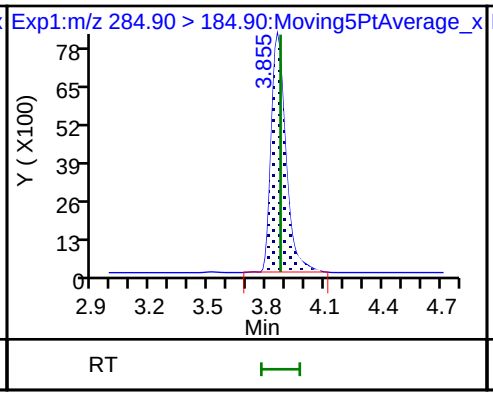
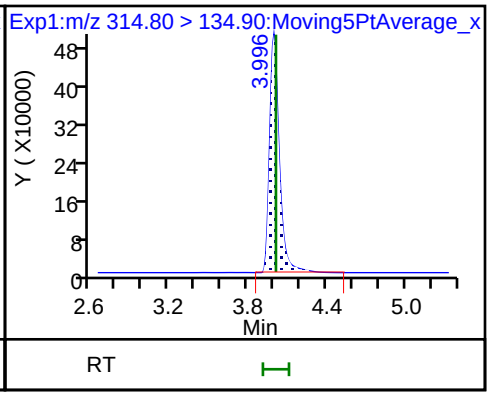


23 PFEESA



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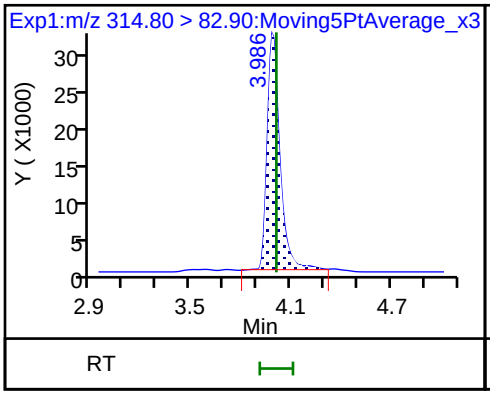
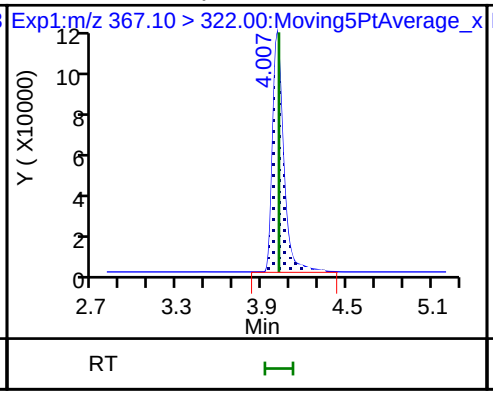


D 25 13C4 PFHpA



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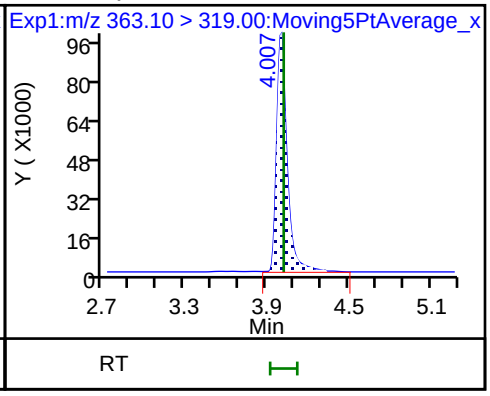

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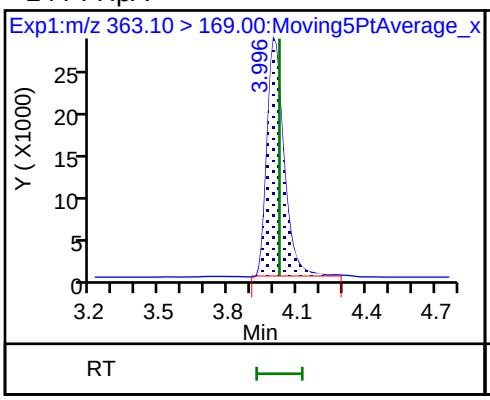
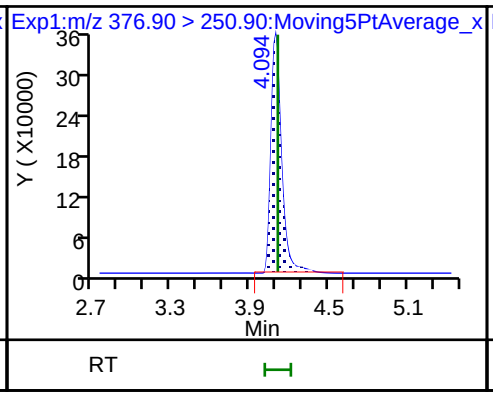


26 ADONA



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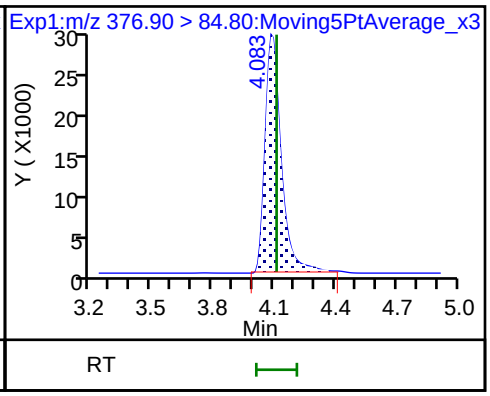
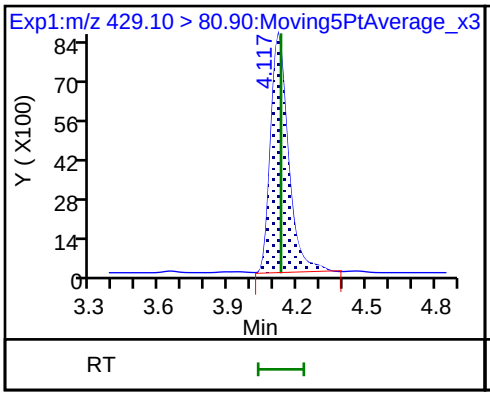


D 29 13C2-6:2FTS



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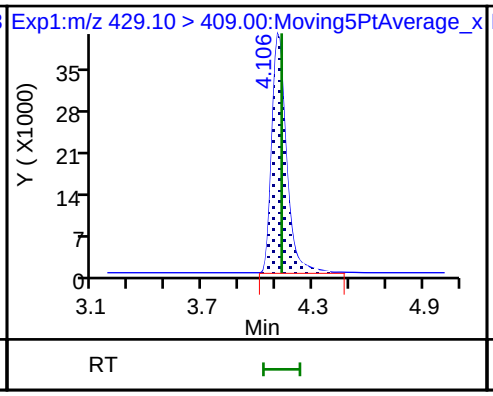

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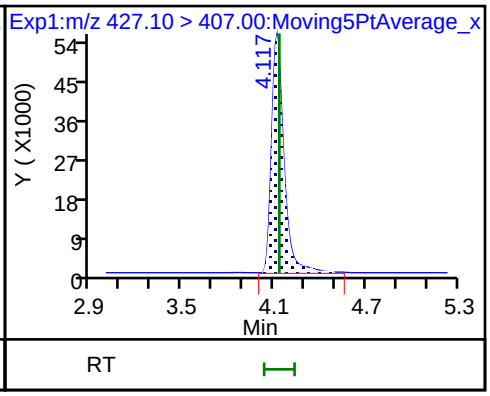

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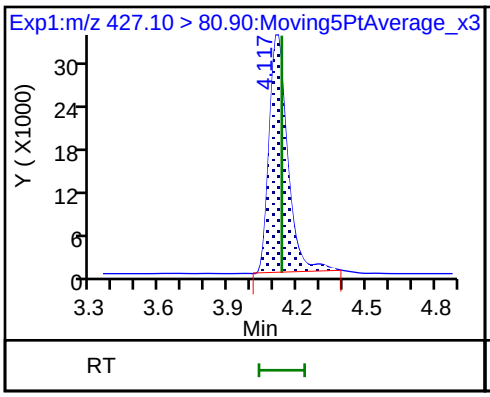
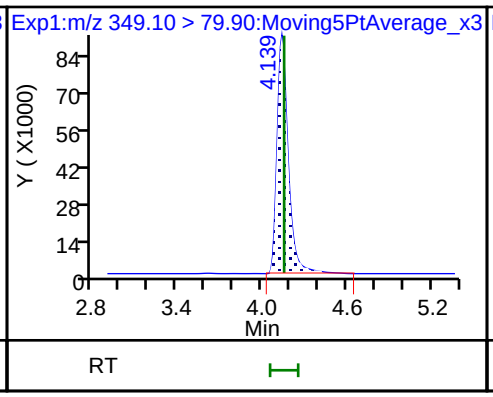


28 PFPeS



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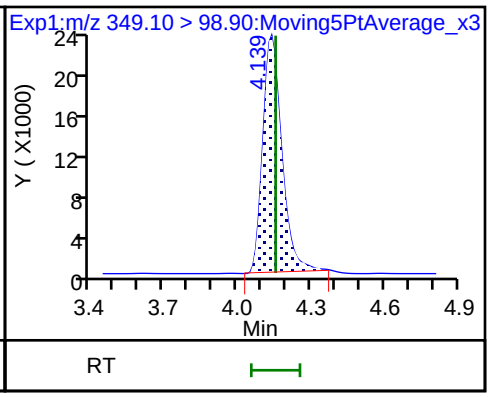

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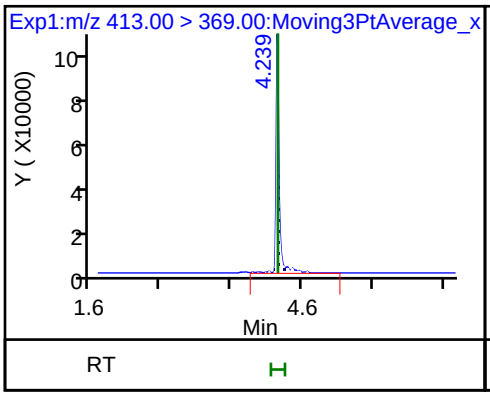

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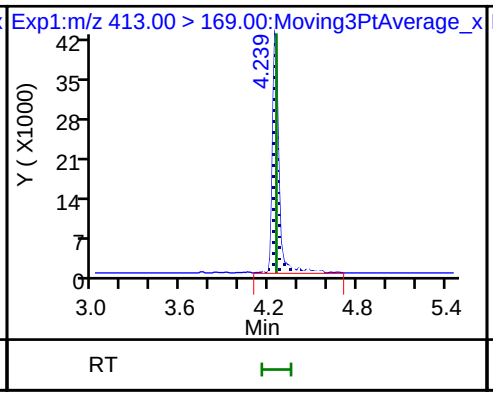

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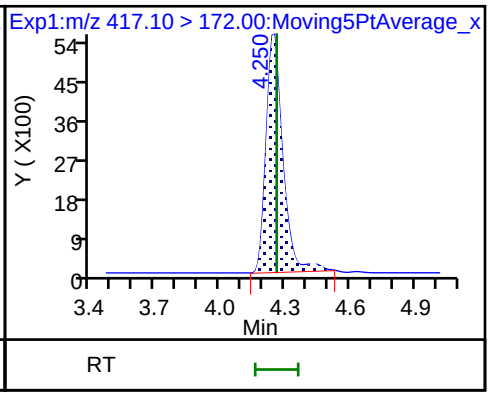

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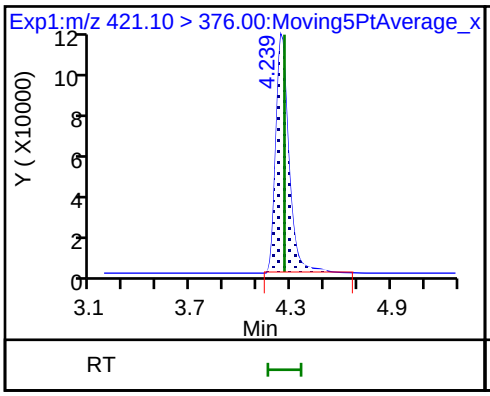

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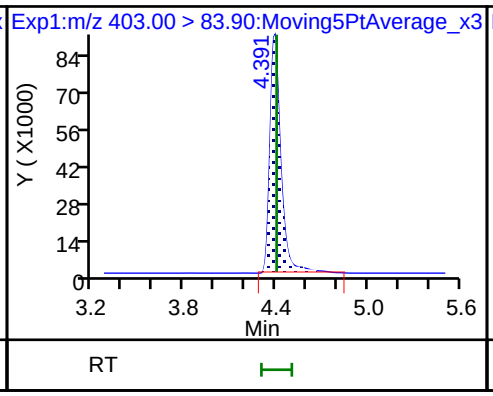

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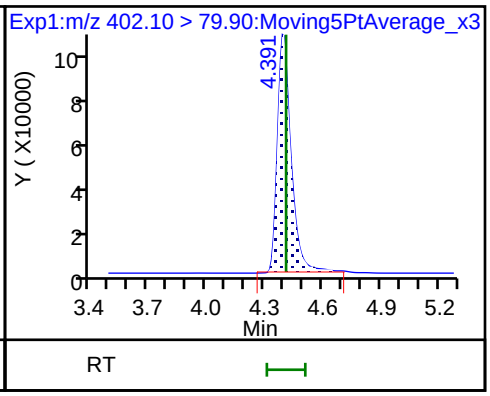

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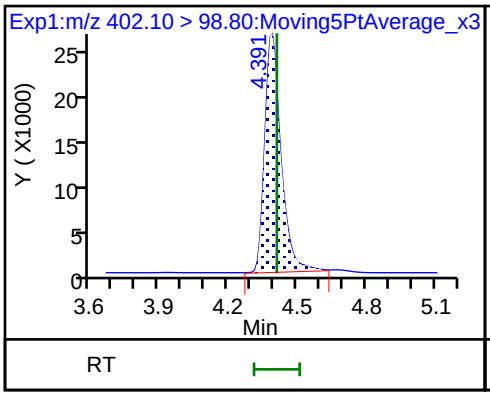

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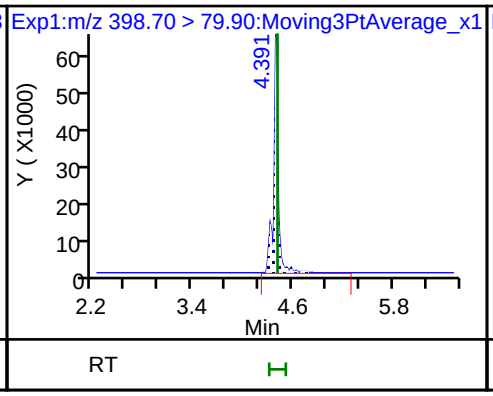

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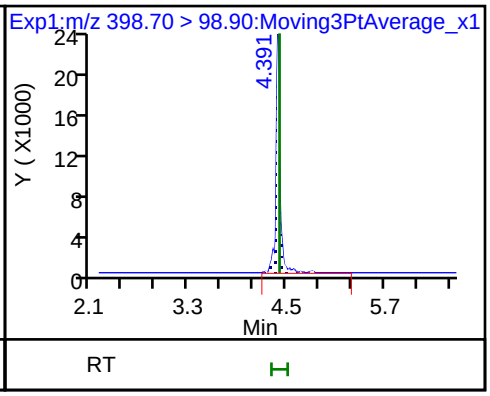

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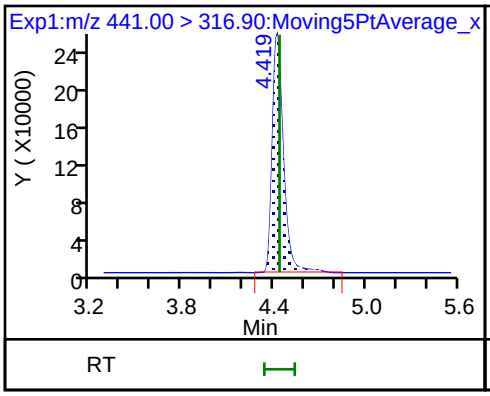
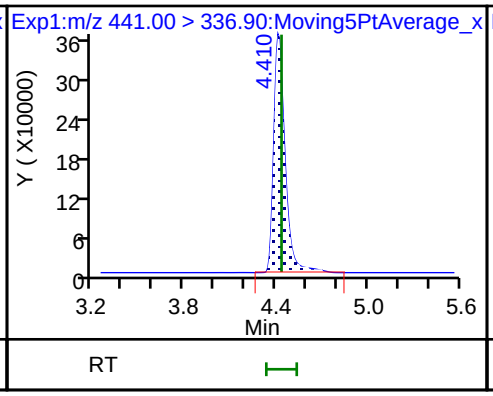


33 7:3 FTCA



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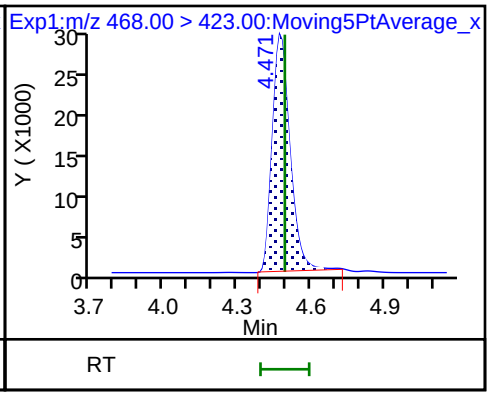

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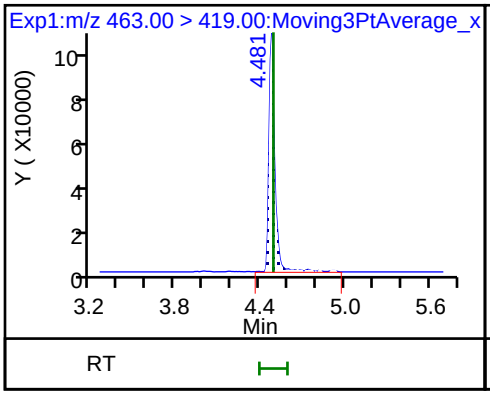

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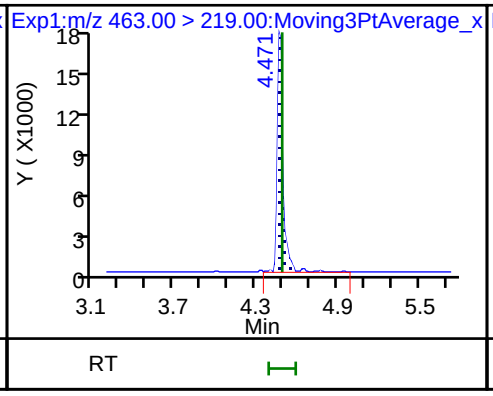

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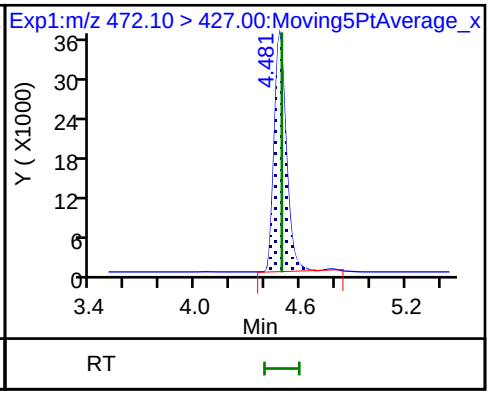

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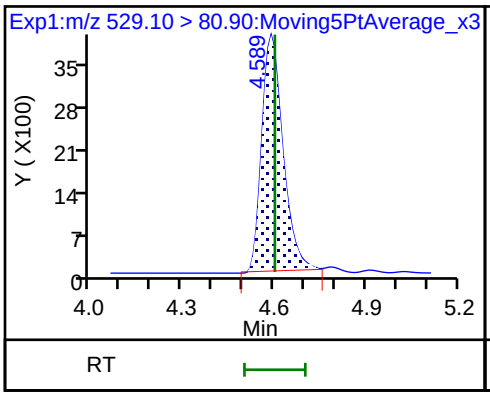

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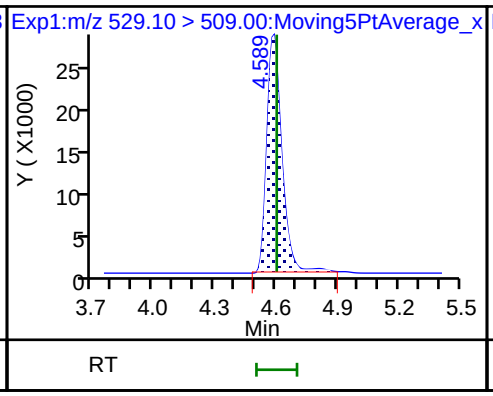

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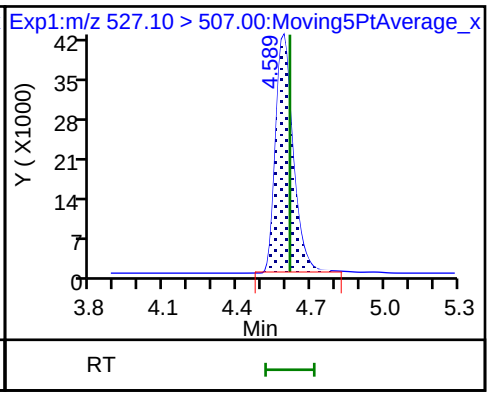

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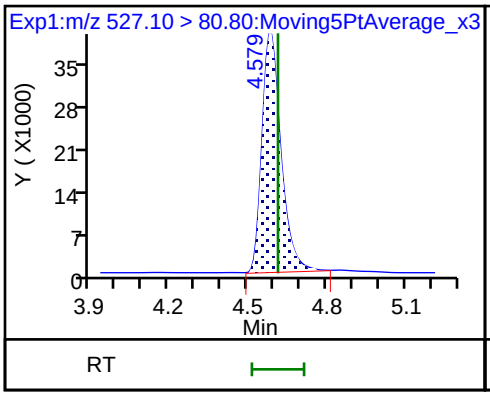

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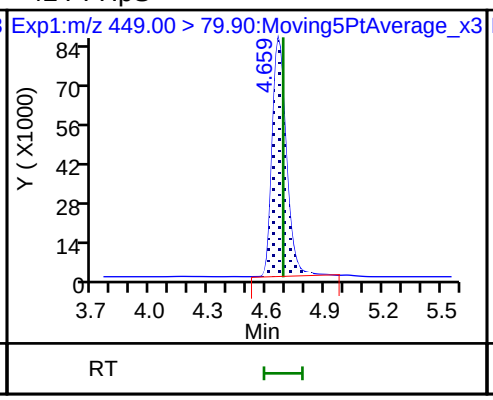

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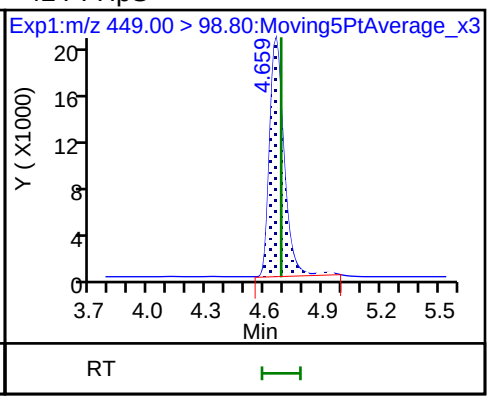
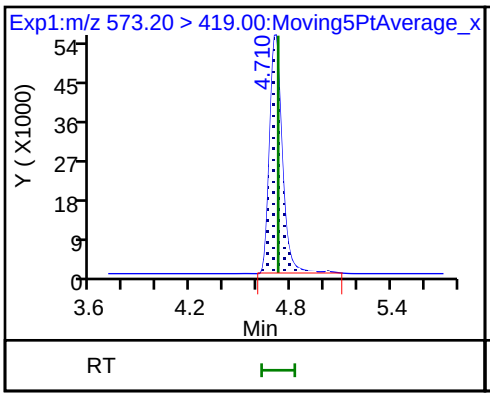


D 44 d3-NMeFOSAA



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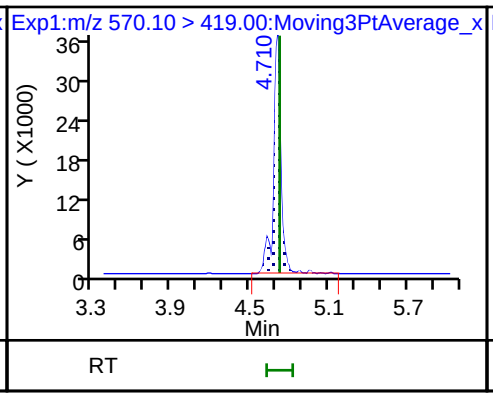

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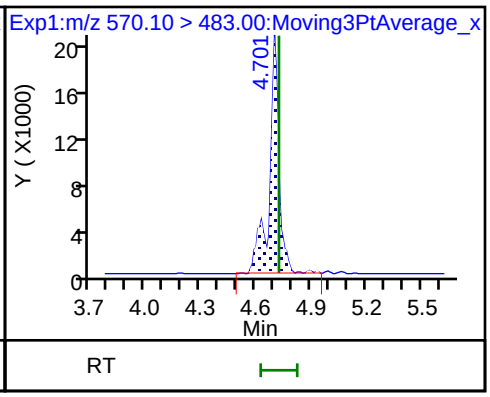

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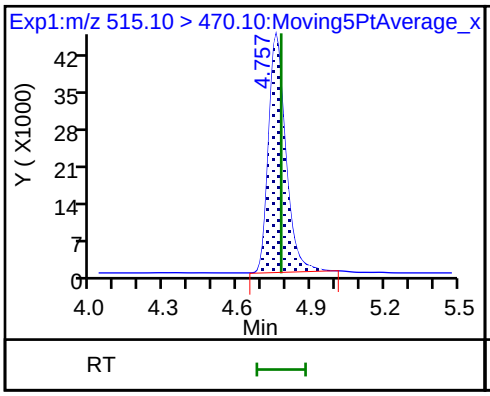

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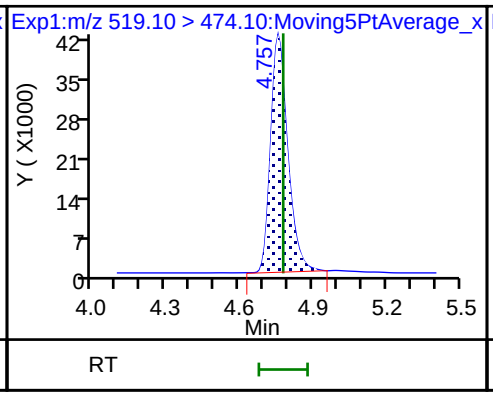

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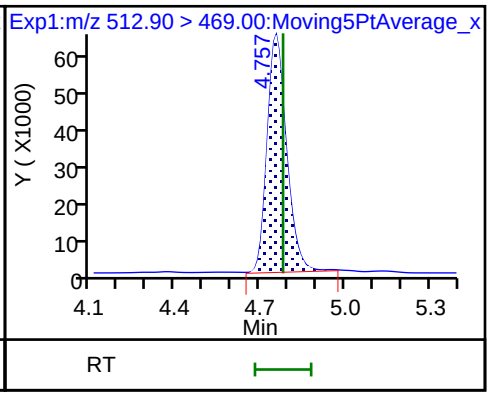

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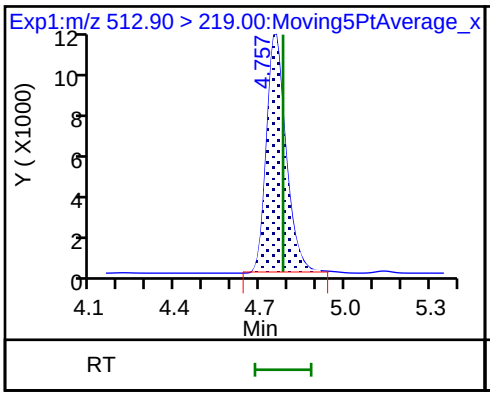

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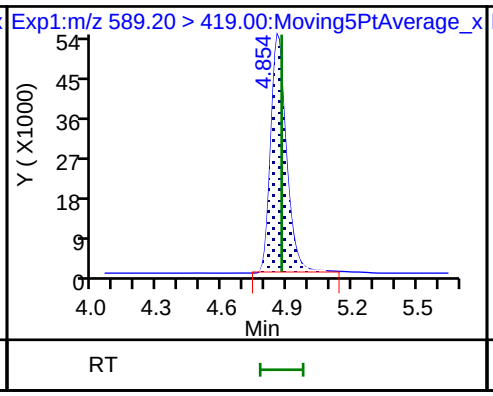

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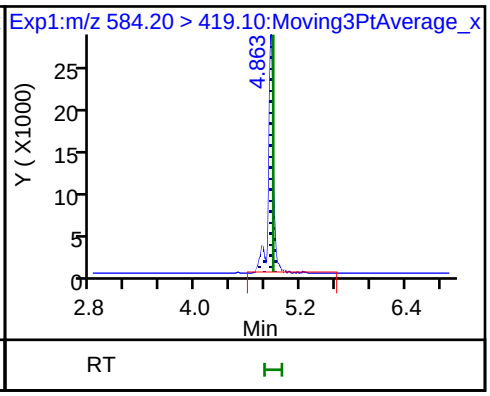

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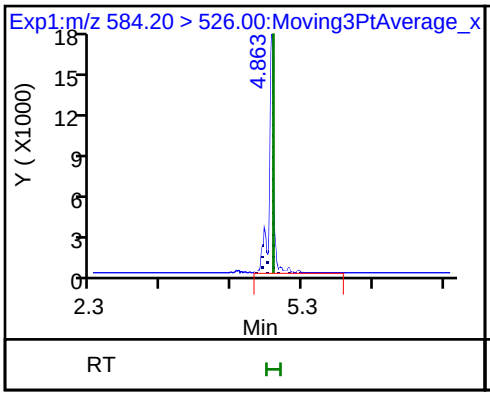

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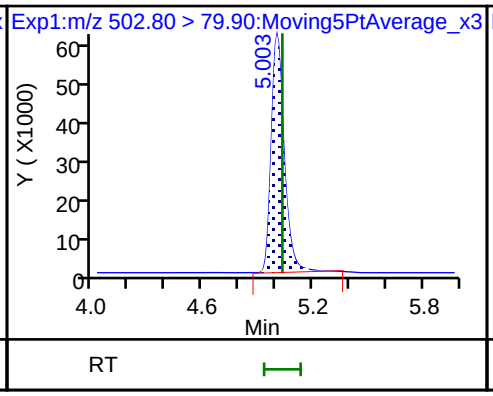

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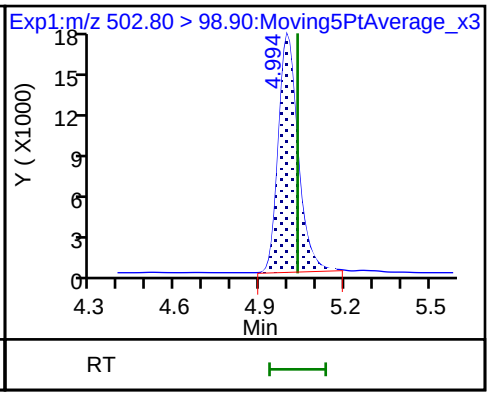
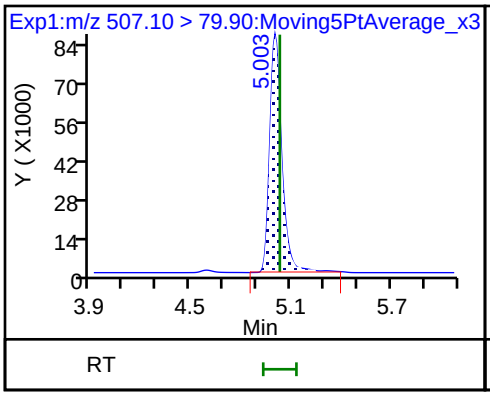


D 51 13C8 PFOS



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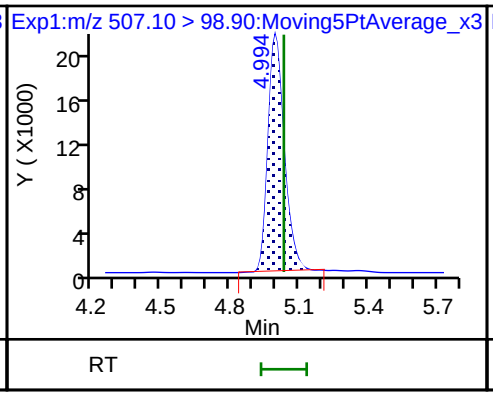
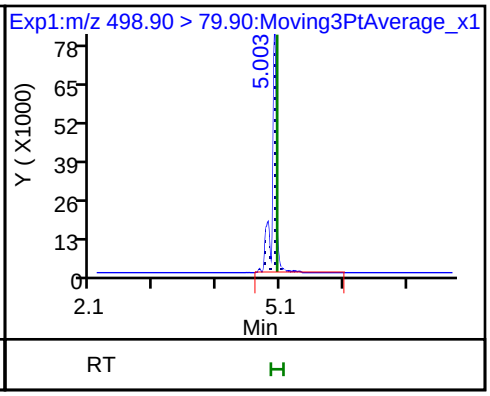


50 PFOS



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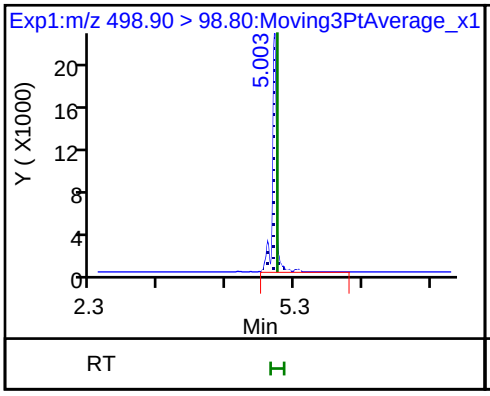

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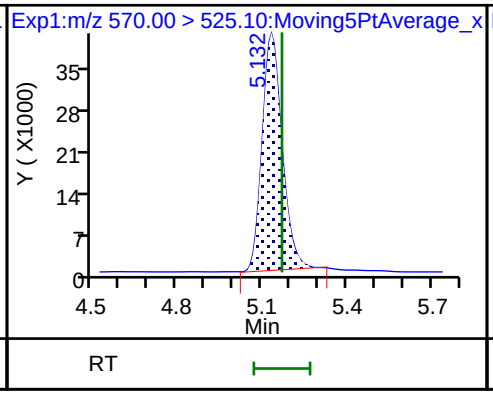

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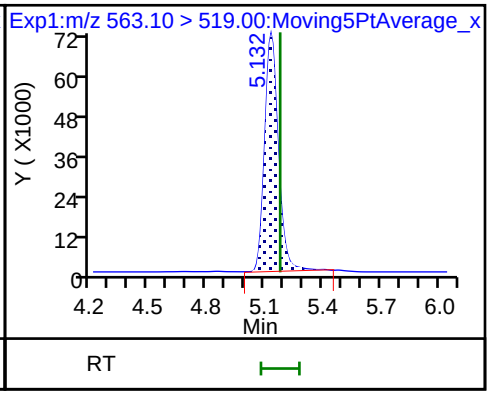

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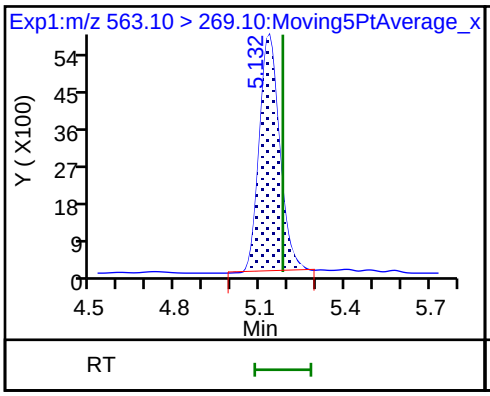

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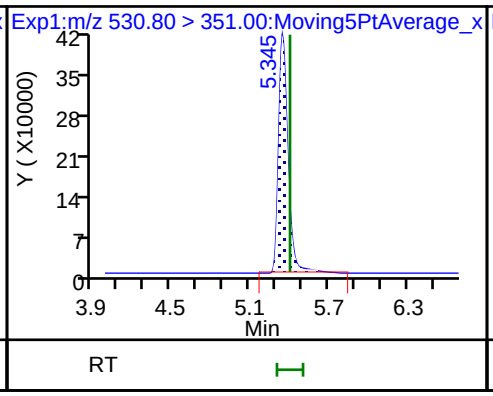

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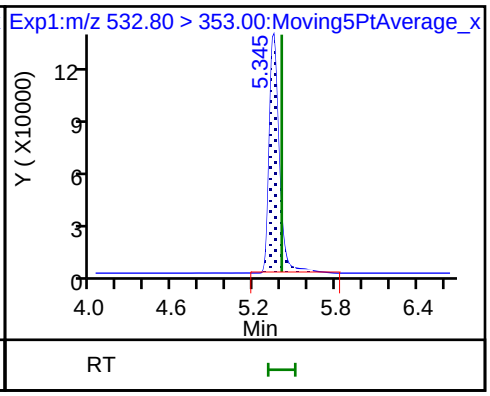
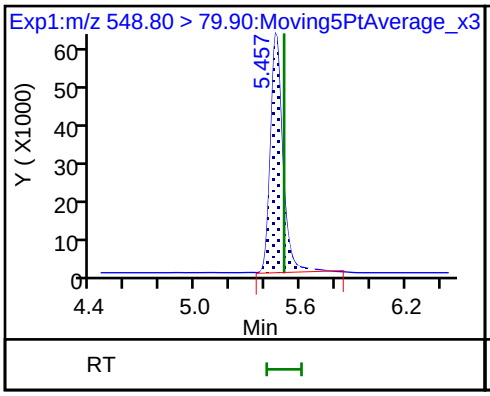


56 PFNS



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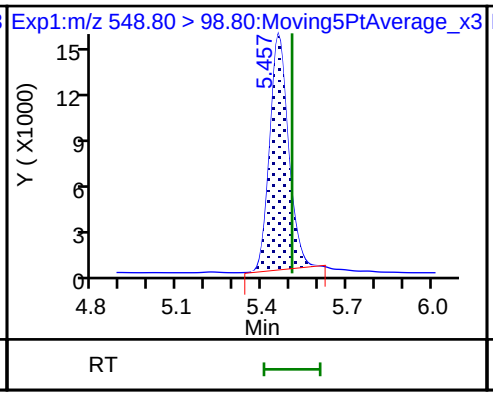

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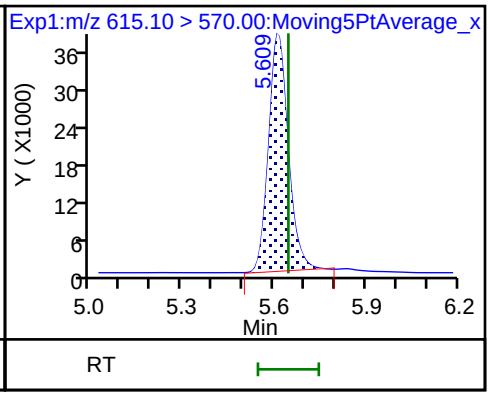

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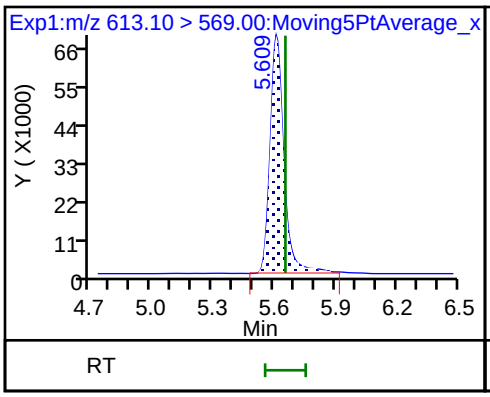

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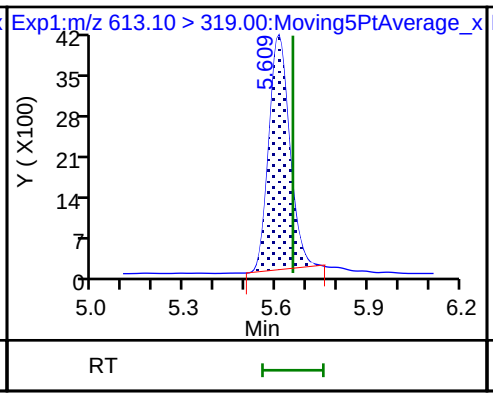

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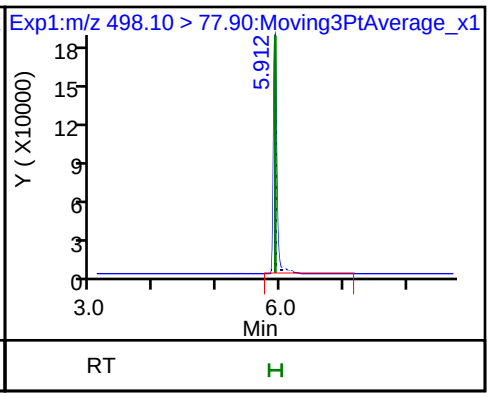

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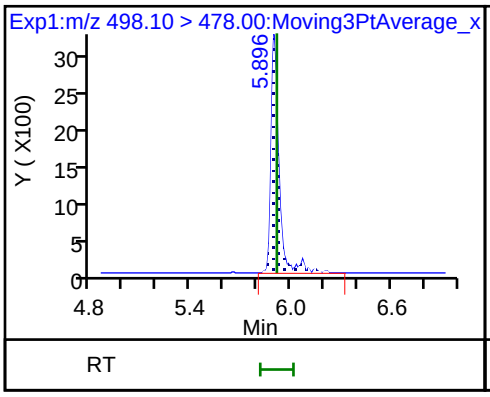

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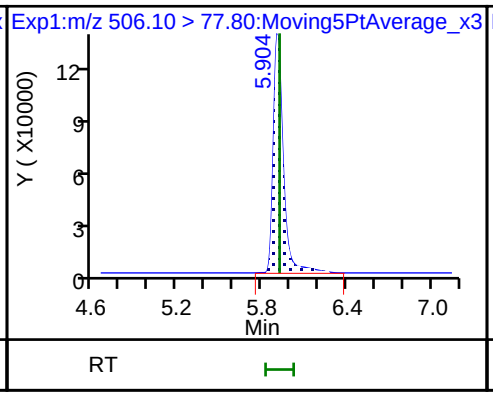

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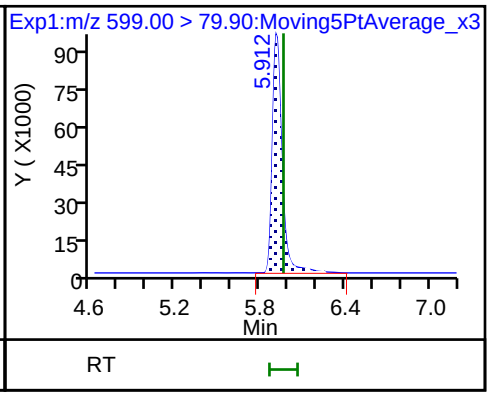

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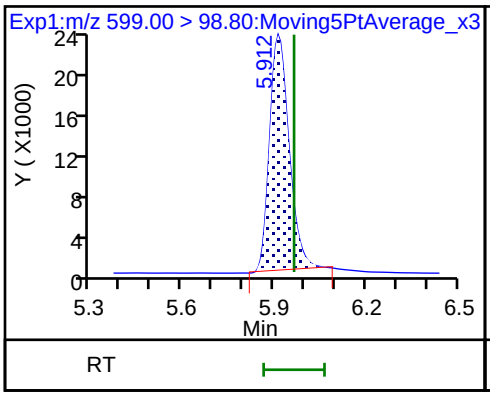

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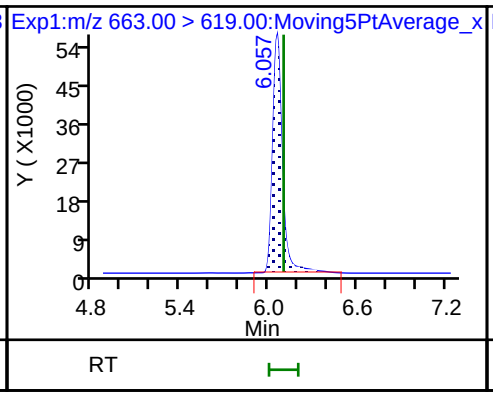

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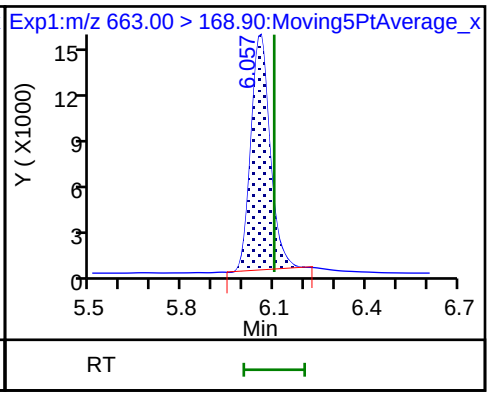

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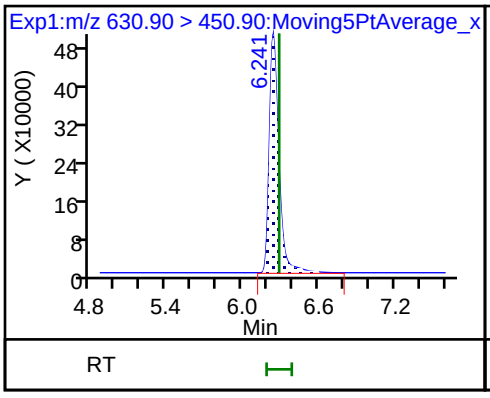

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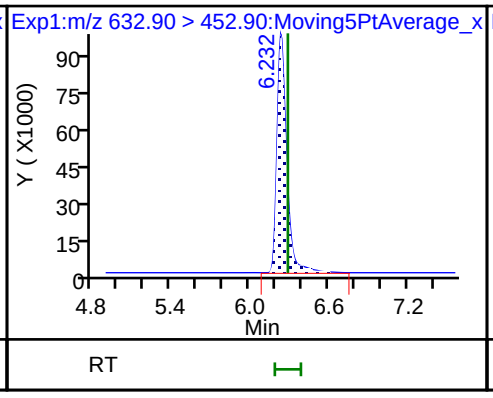

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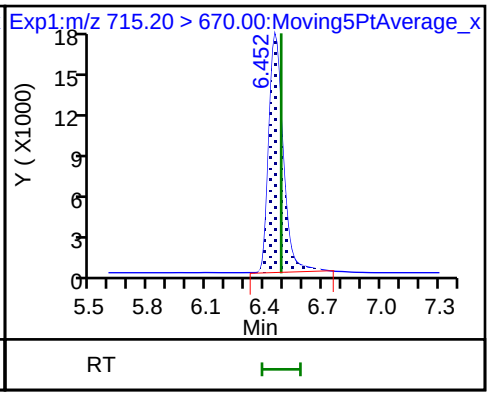

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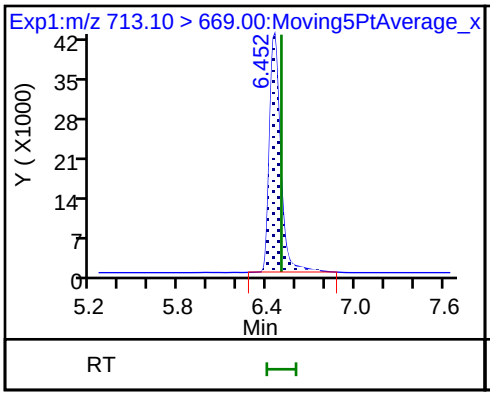

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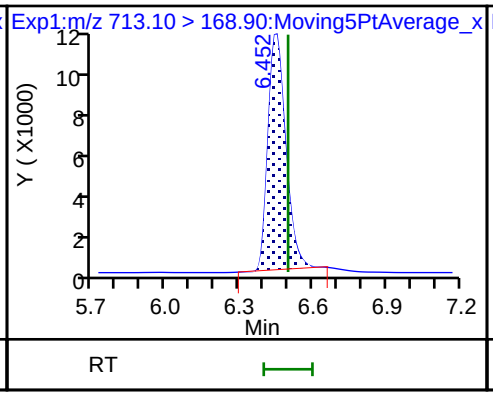

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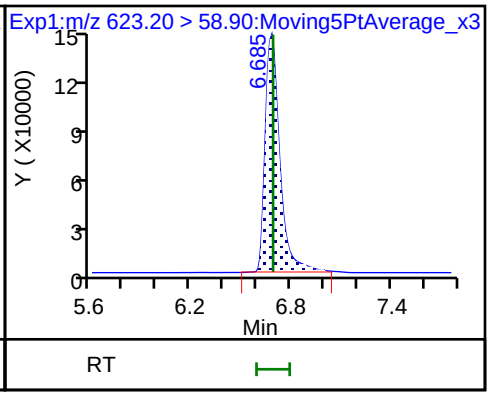
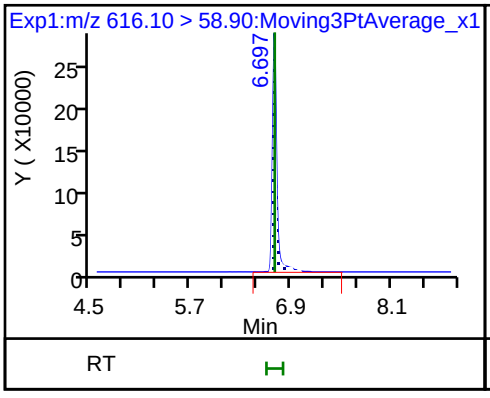


68 N-MeFOSE-M



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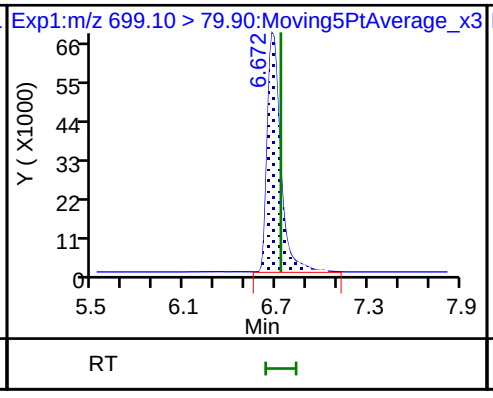

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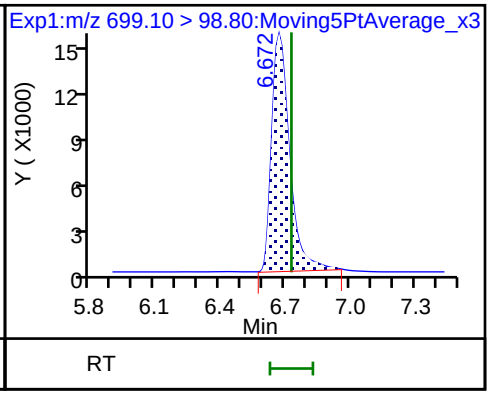

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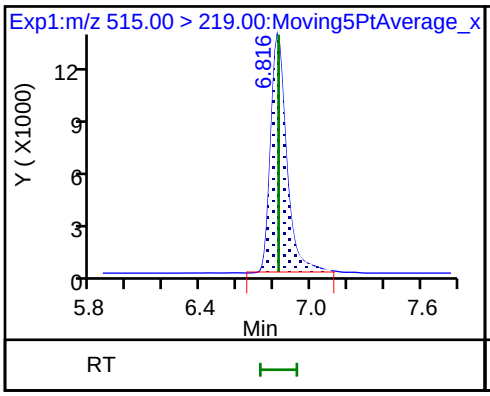

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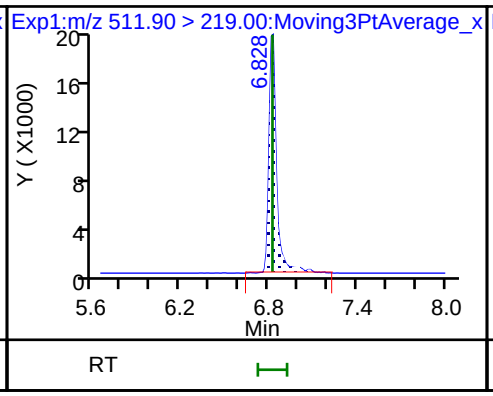

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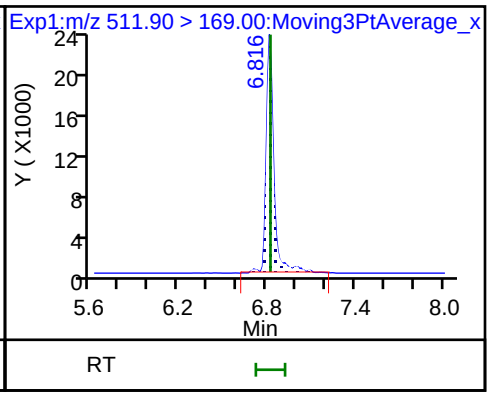
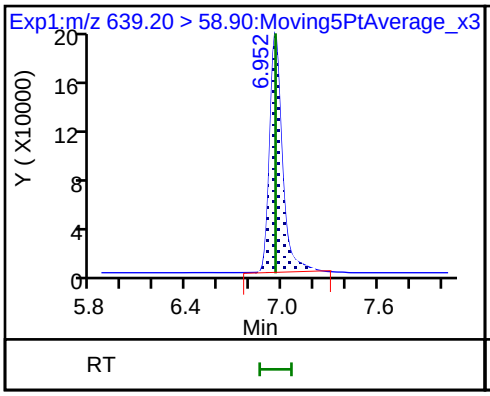
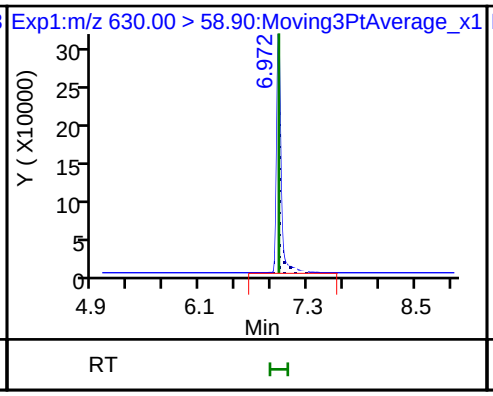


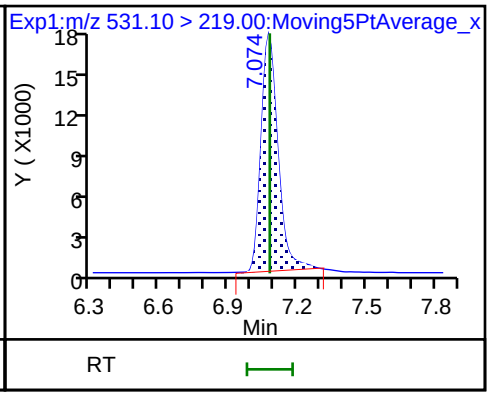
D 71 d9-N-EtFOSE



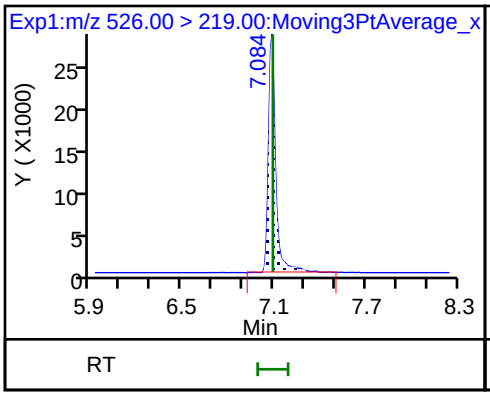
72 N-EtFOSE-M



D 73 d5-NEtPFOSA



74 N-EtFOSA-M



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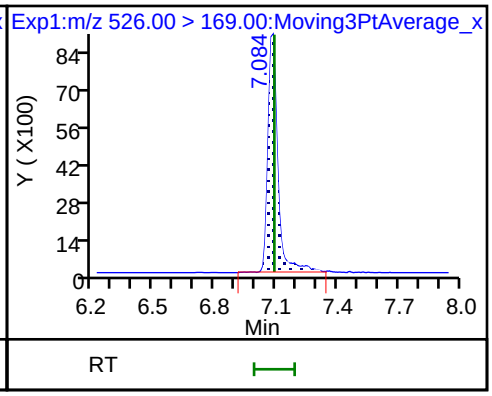


Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

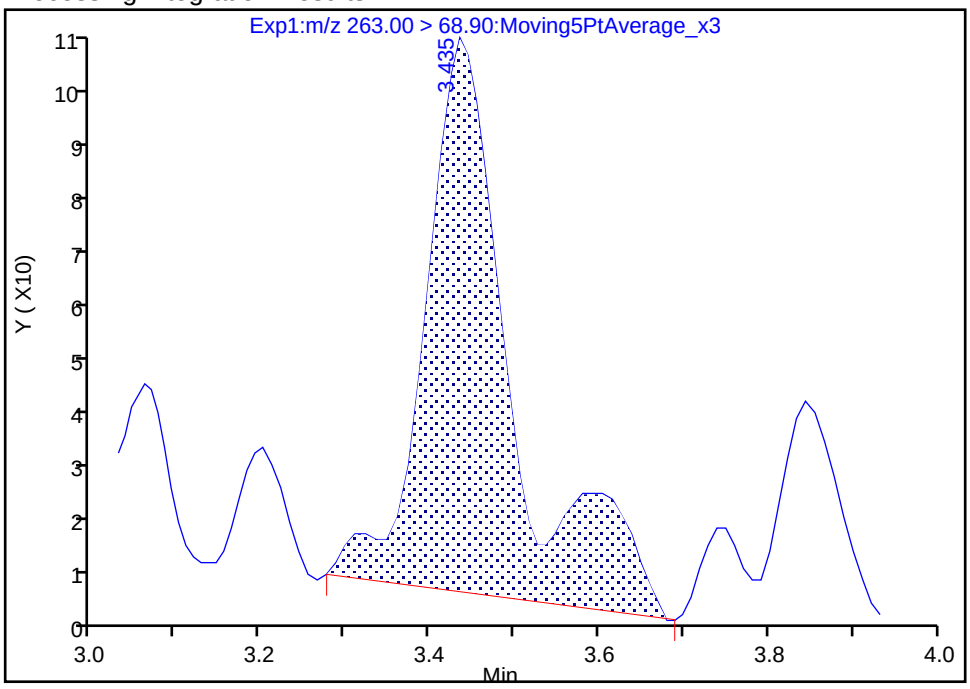
Data File:	\\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-54.d				
Injection Date:	08-Aug-2023 22:06:02	Instrument ID:	30729		
Lims ID:	LCS 410-397379/2-A				
Client ID:					
Operator ID:	US19_USR_INS20263	ALS Bottle#:	39	Worklist Smp#:	49
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

6 PFPA, CAS: 2706-90-3

Signal: 2

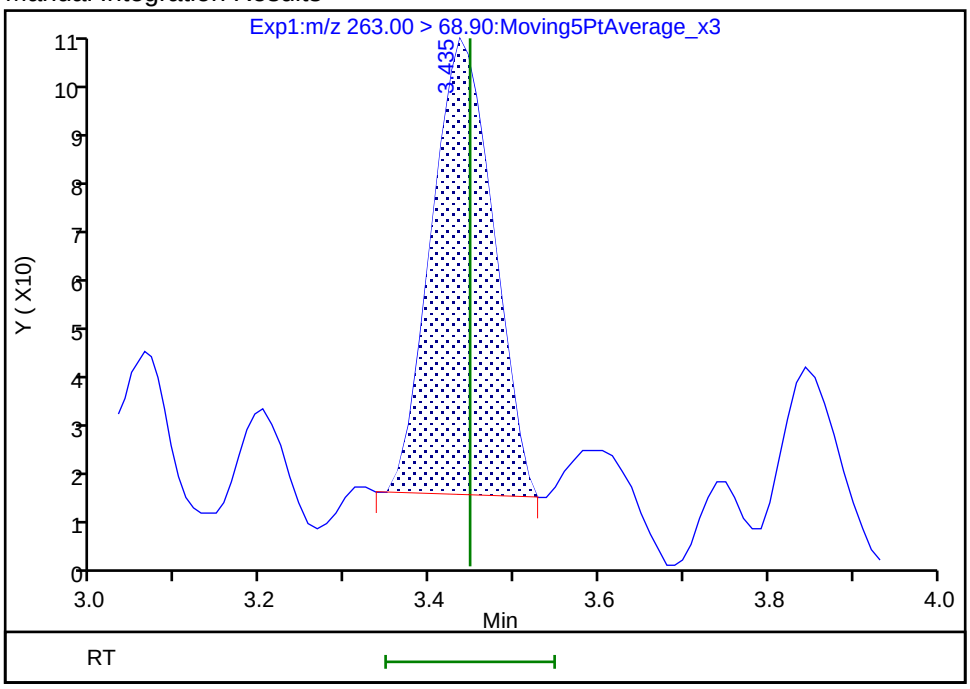
Processing Integration Results

RT: 3.44
Area: 687
Amount: 4.872135
Amount Units: ng/ml



Manual Integration Results

RT: 3.44
Area: 444
Amount: 4.872135
Amount Units: ng/ml



Reviewer: QY4X, 09-Aug-2023 09:19:51 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: Lab Sample ID: LLCS 410-397379/3-A

Matrix: Water Lab File ID: 23AUG08-55.d

Analysis Method: 1633 Date Collected:

Extraction Method: 1633 Date Extracted: 07/17/2023 07:22

Sample wt/vol: 500(mL) Date Analyzed: 08/08/2023 22:19

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	15.14		8.00	1.00
355-46-4	Perfluorohexanesulfonic acid	3.558		2.00	0.57
2058-94-8	Perfluoroundecanoic acid	3.562		2.00	0.50
335-67-1	Perfluorooctanoic acid	3.708		2.00	0.64
335-77-3	Perfluorodecanesulfonic acid	3.079		2.00	0.50
376-06-7	Perfluorotetradecanoic acid	3.827		2.00	0.50
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	13.85		8.00	1.50
31506-32-8	NMeFOSA	4.245		2.00	0.50
812-70-4	7:3 FTCA	79.36		50.0	10.0
335-76-2	Perfluorodecanoic acid	4.330		2.00	0.50
72629-94-8	Perfluorotridecanoic acid	3.431		2.00	0.50
113507-82-7	PFEESA	5.527		4.00	0.50
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	4.314		2.00	0.50
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	13.12		8.00	1.70
375-95-1	Perfluorononanoic acid	3.714		2.00	0.50
13252-13-6	HFPO-DA	13.46		8.00	2.00
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	39.81		20.0	5.00
2706-91-4	Perfluoropentanesulfonic acid	3.525		2.00	0.50
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	13.22		8.00	2.50
68259-12-1	Perfluorononanesulfonic acid	3.438		2.00	0.40
375-85-9	Perfluoroheptanoic acid	3.832		2.00	0.52
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	14.11		8.00	2.00
1763-23-1	Perfluorooctanesulfonic acid	3.474		2.00	0.50
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	13.30		8.00	2.60
377-73-1	Perfluoro-3-methoxypropanoic acid	6.176		4.00	0.50
375-22-4	Perfluorobutanoic acid	14.31		8.00	2.00
2991-50-6	NEtFOSAA	3.955		2.00	0.70

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-282979-1

SDG No.:

Client Sample ID:
Lab Sample ID: LLCS 410-397379/3-A

Matrix: Water
Lab File ID: 23AUG08-55.d

Analysis Method: 1633
Date Collected:

Extraction Method: 1633
Date Extracted: 07/17/2023 07:22

Sample wt/vol: 500(mL)
Date Analyzed: 08/08/2023 22:19

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 2(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691
Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-55-1	Perfluorododecanoic acid	3.554		2.00	0.50
307-24-4	Perfluorohexanoic acid	3.571		2.00	0.50
863090-89-5	Perfluoro(4-methoxybutanoic acid)	7.197		4.00	1.00
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	6.713		4.00	1.00
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	2.797		2.00	0.90
2706-90-3	Perfluoropentanoic acid	7.167		4.00	1.00
914637-49-3	5:3 FTCA	76.15		50.0	10.0
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	39.59		20.0	5.00
754-91-6	Perfluorooctanesulfonamide	3.954		2.00	0.50
356-02-5	3:3 FTCA	18.08		10.0	1.50
2355-31-9	NMeFOSAA	3.842	J	4.00	1.20
375-73-5	Perfluorobutanesulfonic acid	3.248		2.00	0.30
375-92-8	Perfluoroheptanesulfonic acid	3.189		2.00	0.40

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: Lab Sample ID: LLCS 410-397379/3-A

Matrix: Water Lab File ID: 23AUG08-55.d

Analysis Method: 1633 Date Collected:

Extraction Method: 1633 Date Extracted: 07/17/2023 07:22

Sample wt/vol: 500(mL) Date Analyzed: 08/08/2023 22:19

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	76.6		10-130
STL01893	13C5 PFPeA	81.7		40-150
STL02577	13C5 PFHxA	88.7		40-150
STL01892	13C4 PFHpA	81.1		40-150
STL01052	13C8 PFOA	73.7		30-140
STL02578	13C9 PFNA	80.7		30-140
STL02579	13C6 PFDA	75.6		20-140
STL02580	13C7 PFUnA	84.1		20-140
STL02703	13C2-PFDoDA	78.4		10-150
STL02116	13C2 PFTeDA	69.6		10-130
STL02337	13C3 PFBS	85.3		25-150
STL02581	13C3 PFHxS	72.0		25-150
STL01054	13C8 PFOS	77.1		20-140
STL01056	13C8 FOSA	71.0		10-130
STL02118	d3-NMeFOSAA	71.2		10-200
STL02117	d5-NEtFOSAA	65.0		10-200
STL02395	M2-4:2 FTS	80.9		25-200
STL02279	M2-6:2 FTS	76.6	I	25-200
STL02280	M2-8:2 FTS	87.4		25-200
STL02255	13C3 HFPO-DA	78.1		25-160
STL02277	d7-N-MeFOSE-M	62.8		10-150
STL02278	d9-N-EtFOSE-M	60.8		10-150
STL02704	d5-NEtPFOSA	45.9		10-130
STL02705	d3-NMePFOSA	43.0		10-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-55.d
Lims ID: LLCS 410-397379/3-A
Client ID:
Sample Type: LLCS
Inject. Date: 08-Aug-2023 22:19:05 ALS Bottle#: 40 Worklist Smp#: 50
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: LLCS 410-397379/3-A
Misc. Info.: Plate: 1 Rack: 1 410-0090889-050
Operator ID: US19_USR_INS20263 Instrument ID: 30729

Method: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\PFAS_30729_1633.m
Limit Group: LC - 1633 ICAL
Last Update: 09-Aug-2023 09:51:16 Calib Date: 05-Aug-2023 11:25:28
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-11.d

Column 1 : Det: EXP1
Process Host: CTX1649

First Level Reviewer: QY4X Date: 09-Aug-2023 09:21:36
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4-PFBA										
216.80 > 171.90	2.926	2.932	-0.006	1.000	1332062	7.66		76.6	79298	
* 3 13C3PFBA										
216.00 > 172.00	2.926	2.932	-0.006		1070930	5.00			2255	
1 PFBA										
212.80 > 168.90	2.926	2.942	-0.016	1.000	159227	1.43		89.5	884	
4 PFMPA										
229.00 > 84.90	3.157	3.167	-0.010	0.918	92875	0.6176		77.2	5060	
5 3:3 FTCA										
241.00 > 177.00	3.157	3.167	-0.010	0.918	13604	1.81	Target=1.11	90.2	961	
241.00 > 117.00	3.157	3.167	-0.010	0.918	11615		1.17(0.55-1.66)		443	
D 7 13C5 PFPeA										
268.30 > 223.00	3.438	3.444	-0.006	0.918	415013	4.08		81.7	25080	
6 PFPA										RMa
263.00 > 219.00	3.438	3.447	-0.009	1.000	107715	0.7167	Target=1273.32	89.6	1411	Ra
263.00 > 68.90	3.438	3.447	-0.009	1.000	389		276.90(636.66-1909.99)		21.7	M
8 PFMBA										
279.00 > 85.10	3.540	3.562	-0.022	1.030	86913	0.7197		90.0	5649	
D 10 13C2-4:2FTS										
329.10 > 80.90	3.631	3.638	-0.007	0.828	70768	3.79	Target=0.35	80.9	4325	
329.10 > 309.00	3.619	3.638	-0.019	0.825	160692		0.44(0.18-0.53)	80.9	9318	
9 4:2FTS										
327.10 > 307.00	3.619	3.642	-0.023	0.997	52994	1.31	Target=1.40	87.4	3329	
327.10 > 80.90	3.619	3.642	-0.023	0.997	40533		1.31(0.70-2.10)		2400	
12 NFDHA										
295.00 > 201.00	3.713	3.734	-0.021	0.992	10323	0.6713	Target=2.17	83.9	733	
295.00 > 84.90	3.713	3.734	-0.021	0.992	5018		2.06(1.08-3.25)		339	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 14 13C5 PFHxA										
318.00 > 273.00	3.744	3.750	-0.006	1.000	54867	2.22	Target=15.34	88.7	3525	
318.00 > 120.30	3.744	3.750	-0.006	1.000	4320		12.70(7.67-23.01)	88.7	275	
* 15 13C2 PFHxA										
315.10 > 270.00	3.744	3.750	-0.006		353685	2.50	Target=103.53		23053	
315.10 > 119.40	3.734	3.750	-0.016		4073		86.84(51.76-155.29)		223	
13 PFHxA										
313.00 > 269.00	3.744	3.755	-0.011	1.000	42560	0.3571	Target=13.63	89.3	1942	
313.00 > 118.90	3.734	3.755	-0.021	0.997	3858		11.03(6.82-20.45)		268	
D 18 13C3 PFBS										
302.10 > 79.90	3.849	3.856	-0.007	0.877	523658	1.99	Target=6.99	85.3	32615	
302.10 > 98.90	3.838	3.856	-0.018	0.875	75604		6.93(3.50-10.49)	85.3	4823	
17 PFBS										
298.70 > 79.90	3.838	3.860	-0.022	0.997	44146	0.3248	Target=3.41	91.5	1377	
298.70 > 98.80	3.838	3.860	-0.022	0.997	13258		3.33(1.70-5.11)		846	
16 5:3 FTCA										
341.00 > 237.10	3.838	3.860	-0.022	1.025	268560	7.62	Target=2.68	76.0	16239	
341.00 > 217.00	3.828	3.860	-0.032	1.022	118355		2.27(1.34-4.01)		7432	
D 20 13C3 HFPO-DA										
286.90 > 168.90	3.860	3.867	-0.007	1.031	1218378	7.81	Target=29.00	78.1	74260	
286.90 > 184.90	3.849	3.867	-0.018	1.028	40775		29.88(14.50-43.50)	78.1	2705	
19 HFPO-DA										
284.90 > 168.90	3.860	3.872	-0.012	1.000	112258	1.35	Target=17.67	84.1	146	
284.90 > 184.90	3.849	3.872	-0.023	0.997	6039		18.59(8.84-26.51)		408	
23 PFEESA										
314.80 > 134.90	3.990	4.012	-0.022	1.066	347921	0.5527	Target=14.15	77.6	16551	
314.80 > 82.90	3.990	4.012	-0.022	1.066	23025		15.11(7.08-21.23)		596	
D 25 13C4 PFHpA										
367.10 > 322.00	4.001	4.018	-0.017	1.069	600944	2.03		81.1	37402	
24 PFHpA										
363.10 > 319.00	4.001	4.022	-0.021	1.000	86947	0.3832	Target=3.62	95.8	3910	
363.10 > 169.00	4.001	4.022	-0.021	1.000	20055		4.34(1.81-5.44)		1268	
26 ADONA										
376.90 > 250.90	4.088	4.111	-0.023	1.059	326100	1.38	Target=12.84	91.6	14862	
376.90 > 84.80	4.088	4.111	-0.023	1.059	25564		12.76(6.42-19.27)		1671	
D 29 13C2-6:2FTS										R
429.10 > 80.90	4.111	4.129	-0.018	0.937	35070	3.64	Target=0.12	76.6	2162	R
429.10 > 409.00	4.111	4.129	-0.018	0.937	190522		0.18(0.06-0.18)	76.6	11195	
27 6:2FTS										
427.10 > 407.00	4.111	4.132	-0.021	1.000	44497	1.32	Target=1.71	87.0	2751	
427.10 > 80.90	4.111	4.132	-0.021	1.000	27209		1.64(0.85-2.56)		1712	
28 PFPeS										
349.10 > 79.90	4.133	4.155	-0.022	0.940	71577	0.3525	Target=3.85	93.6	4391	
349.10 > 98.90	4.133	4.155	-0.022	0.940	24738		2.89(1.93-5.78)		1538	
32 PFOA										
413.00 > 369.00	4.244	4.250	-0.006	1.000	44393	0.3708	Target=2.36	92.7	43.8	
413.00 > 169.00	4.233	4.250	-0.017	0.998	19802		2.24(1.18-3.53)		51.6	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 30 13C4 PFOA										
417.10 > 172.00	4.244	4.261	-0.017		34569	2.50			2271	
D 31 13C8 PFOA										
421.10 > 376.00	4.244	4.261	-0.017	1.000	605909	1.84		73.7	37521	
* 35 18O2 PFHxS										
403.00 > 83.90	4.386	4.401	-0.015		602100	2.37			40617	
D 36 13C3 PFHxS										
402.10 > 79.90	4.396	4.411	-0.015	1.002	488248	1.71	Target=3.90	72.0	32471	
402.10 > 98.80	4.386	4.411	-0.025	1.000	137288		3.56(1.95-5.85)	72.0	9360	
34 PFHxS										
398.70 > 79.90	4.386	4.413	-0.027	0.998	38605	0.3558	Target=3.39	97.3	175	
398.70 > 98.90	4.386	4.413	-0.027	0.998	10111		3.82(1.69-5.08)		53.8	
33 7:3 FTCA										
441.00 > 316.90	4.414	4.434	-0.020	1.179	198464	7.94	Target=0.66	79.2	10374	
441.00 > 336.90	4.414	4.434	-0.020	1.179	313079		0.63(0.33-1.00)		20669	
* 37 13C5 PFNA										
468.00 > 423.00	4.476	4.493	-0.017		191497	1.25			9453	
39 PFNA										
463.00 > 419.00	4.476	4.493	-0.017	1.000	40760	0.3714	Target=5.25	92.9	101	
463.00 > 219.00	4.476	4.493	-0.017	1.000	7807		5.22(2.63-7.88)		22.6	
D 38 13C9 PFNA										
472.10 > 427.00	4.476	4.493	-0.017	1.000	163284	1.01		80.7	11019	
D 41 13C2-8:2FTS										
529.10 > 80.90	4.585	4.601	-0.016	1.045	21564	4.19	Target=0.14	87.4	1466	
529.10 > 509.00	4.585	4.601	-0.016	1.045	122526		0.18(0.07-0.21)	87.4	6036	
40 8:2FTS										
527.10 > 507.00	4.585	4.614	-0.029	1.000	33542	1.33	Target=1.21	86.6	2384	
527.10 > 80.80	4.585	4.614	-0.029	1.000	30281		1.11(0.60-1.81)		2034	
42 PFHpS										
449.00 > 79.90	4.656	4.685	-0.029	0.931	60467	0.3189	Target=3.73	83.7	3054	
449.00 > 98.80	4.656	4.685	-0.029	0.931	17710		3.41(1.86-5.59)		1168	
D 44 d3-NMeFOSAA										
573.20 > 419.00	4.697	4.723	-0.026	0.939	302818	3.56		71.2	19773	
43 NMeFOSAA										
570.10 > 419.00	4.707	4.725	-0.018	1.002	21807	0.3842	Target=1.77	96.0	87.4	
570.10 > 483.00	4.697	4.725	-0.028	1.000	12406		1.76(0.89-2.66)		71.5	
* 46 13C2 PFDA										
515.10 > 470.10	4.754	4.778	-0.024		254974	1.25			16831	
D 47 13C6 PFDA										
519.10 > 474.10	4.754	4.778	-0.024	1.000	194380	0.9449		75.6	13056	
45 PFDA										
512.90 > 469.00	4.754	4.781	-0.027	1.000	47881	0.4330	Target=6.01	108	1977	
512.90 > 219.00	4.754	4.781	-0.027	1.000	7916		6.05(3.00-9.01)		557	
D 49 d5-NEtFOSAA										
589.20 > 419.00	4.851	4.874	-0.023	0.970	257091	3.25		65.0	16649	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
48 NEtFOSAA										
584.20 > 419.10	4.860	4.886	-0.026	1.002	15214	0.3955	Target=1.68	98.9	60.6	
584.20 > 526.00	4.851	4.886	-0.035	1.000	11931		1.28(0.84-2.53)		33.2	
* 52 13C4 PFOS										
502.80 > 79.90	5.000	5.033	-0.033		409361	2.40	Target=4.18		27525	
502.80 > 98.90	4.991	5.033	-0.042		96756		4.23(2.09-6.27)		4986	
D 51 13C8 PFOS										
507.10 > 79.90	5.000	5.033	-0.033	1.000	449454	1.85	Target=3.96	77.1	15268	
507.10 > 98.90	4.991	5.033	-0.042	0.998	102809		4.37(1.98-5.94)	77.1	5287	
50 PFOS										
498.90 > 79.90	5.000	5.044	-0.044	1.000	60050	0.3474	Target=4.55	93.6	101	
498.90 > 98.80	5.000	5.044	-0.044	1.000	13741		4.37(2.28-6.83)		114	
D 54 13C7 PFUnA										
570.00 > 525.10	5.130	5.170	-0.040	1.079	198881	1.05		84.1	10336	
53 PFUnA										
563.10 > 519.00	5.130	5.180	-0.050	1.000	50137	0.3562	Target=11.29	89.1	2553	
563.10 > 269.10	5.130	5.180	-0.050	1.000	5364		9.35(5.64-16.93)		360	
55 9ClFOS										
530.80 > 351.00	5.343	5.404	-0.061	1.384	328602	1.51	Target=3.20	101	16793	
532.80 > 353.00	5.343	5.404	-0.061	1.384	99764		3.29(1.60-4.81)		3470	
56 PFNS										
548.80 > 79.90	5.462	5.506	-0.044	1.092	43715	0.3438	Target=4.70	89.3	2399	
548.80 > 98.80	5.455	5.506	-0.051	1.091	10190		4.29(2.35-7.05)		750	
D 58 PFDoDA										
615.10 > 570.00	5.606	5.646	-0.040	1.179	164452	0.9798		78.4	7379	
57 PFDoA										
613.10 > 569.00	5.606	5.654	-0.048	1.000	44111	0.3554	Target=16.23	88.8	2011	
613.10 > 319.00	5.606	5.654	-0.048	1.000	2967		14.87(8.12-24.35)		228	
60 PFOSA										
498.10 > 77.90	5.901	5.915	-0.014	0.999	103364	0.3954	Target=58.34	98.9	1673	
498.10 > 478.00	5.893	5.915	-0.022	0.997	1756		58.86(29.17-87.51)		35.3	
D 59 13C8 FOSA										
506.10 > 77.80	5.909	5.923	-0.014	1.182	633472	1.78		71.0	43215	
61 PFDS										
599.00 > 79.90	5.917	5.965	-0.048	1.184	61580	0.3079	Target=4.36	79.8	3440	
599.00 > 98.80	5.909	5.965	-0.056	1.182	14216		4.33(2.18-6.54)		1037	
62 PFTrDA										
663.00 > 619.00	6.054	6.099	-0.045	0.939	33876	0.3431	Target=3.59	85.8	1923	
663.00 > 168.90	6.054	6.099	-0.045	0.939	8895		3.81(1.79-5.38)		687	
63 11ClFOS										
630.90 > 450.90	6.238	6.288	-0.050	1.616	409504	1.41	Target=5.30	93.3	26338	
632.90 > 452.90	6.229	6.288	-0.059	1.614	71971		5.69(2.65-7.95)		4786	
D 65 13C2 PFTeDA										
715.20 > 670.00	6.448	6.485	-0.037	1.356	82220	0.8699		69.6	4110	
64 PFTeDA										
713.10 > 669.00	6.448	6.498	-0.050	1.000	28797	0.3827	Target=3.31	95.7	1952	
713.10 > 168.90	6.448	6.498	-0.050	1.000	8391		3.43(1.66-4.97)		564	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 67 d7-N-Me-FOSE										
623.20 > 58.90	6.682	6.692	-0.010	1.336	920982	15.7		62.8	30497	
68 N-MeFOSE-M										
616.10 > 58.90	6.694	6.704	-0.010	1.002	163095	3.98		99.5	1429	
66 PFDoS										
699.10 > 79.90	6.669	6.729	-0.060	1.334	58369	0.2797	Target=4.96	72.1	3342	
699.10 > 98.80	6.669	6.729	-0.060	1.334	12163		4.80(2.48-7.44)		747	
D 69 d3-NMePFOSA										
515.00 > 219.00	6.813	6.823	-0.010	1.363	75254	1.07		43.0	4459	
70 NMeFOSA										
511.90 > 219.00	6.813	6.823	-0.010	1.000	10154	0.4245	Target=0.78	106	181	
511.90 > 169.00	6.813	6.823	-0.010	1.000	13618		0.75(0.39-1.17)		146	
D 71 d9-N-EtFOSE										
639.20 > 58.90	6.949	6.957	-0.008	1.390	1095207	15.2		60.8	33107	
72 N-EtFOSE-M										
630.00 > 58.90	6.969	6.978	-0.009	1.003	163075	3.96		99.0	877	
D 73 d5-NEtPFOSA										
531.10 > 219.00	7.071	7.080	-0.009	1.414	86178	1.15		45.9	5535	
74 N-EtFOSA-M										
526.00 > 219.00	7.081	7.090	-0.009	1.001	14322	0.4314	Target=3.00	108	314	
526.00 > 169.00	7.081	7.090	-0.009	1.001	4613		3.10(1.50-4.50)		155	

QC Flag Legend

Processing Flags
R - Failed Signal Ratio Test
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

PFC_ST_02214 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 09-Aug-2023 09:52:29 Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-55.d

Injection Date: 08-Aug-2023 22:19:05 Instrument ID: 30729

Lims ID: LLCS 410-397379/3-A

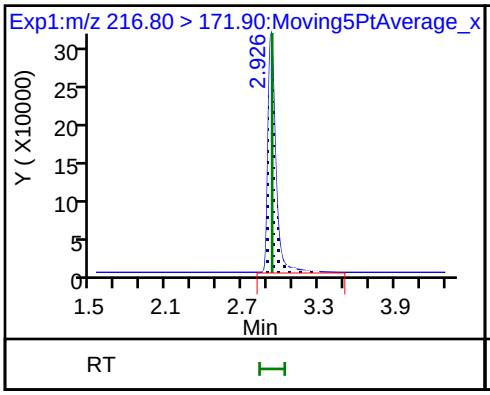
Client ID:

Operator ID: US19_USR_INS20263 ALS Bottle#: 40 Worklist Smp#: 50

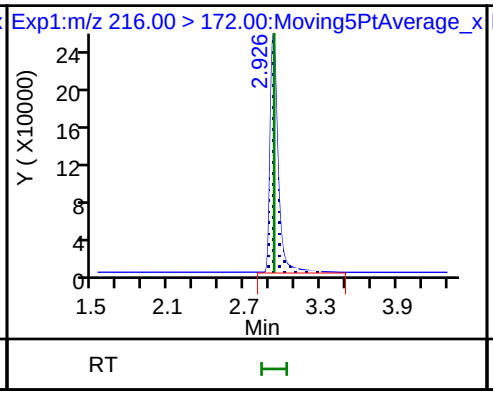
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: PFAS_30729_1633 Limit Group: LC - 1633 ICAL

D 2 13C4-PFBA



* 3 13C3PFBA



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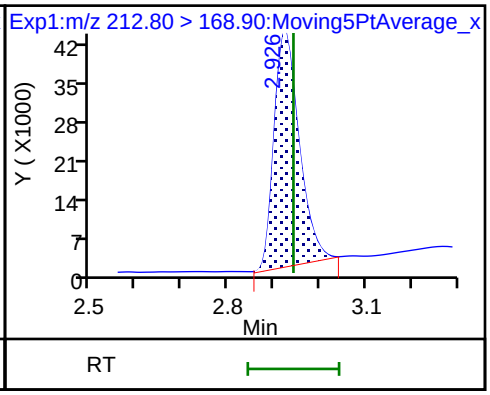

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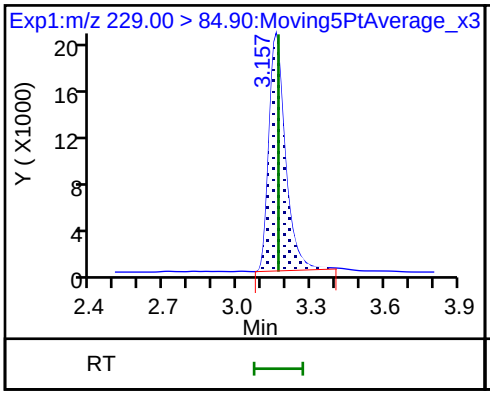
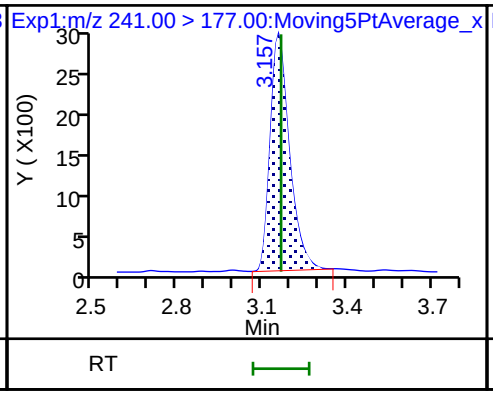


5 3:3 FTCA



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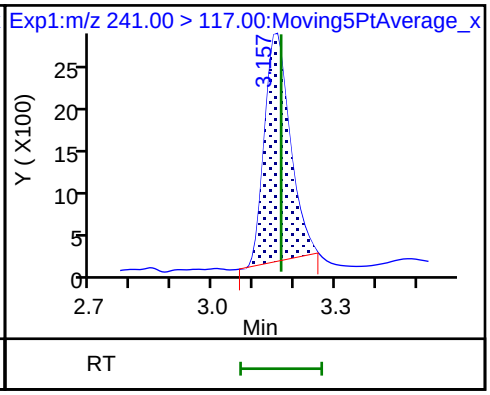

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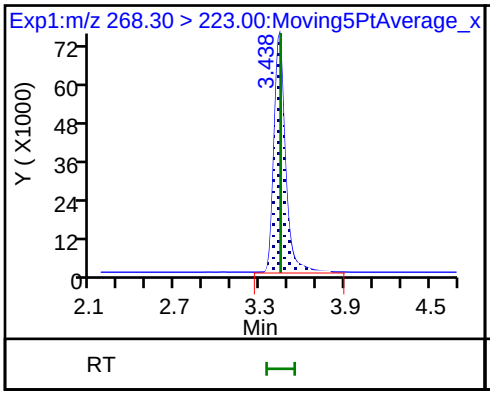
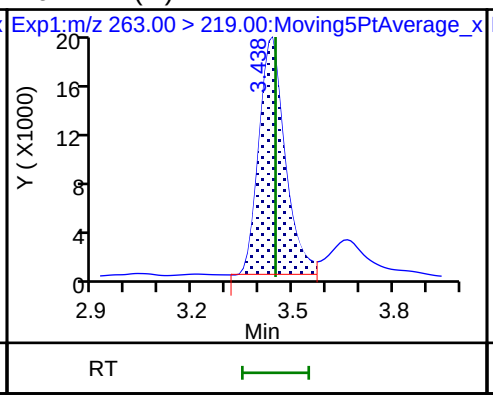


6 PFPA (M)



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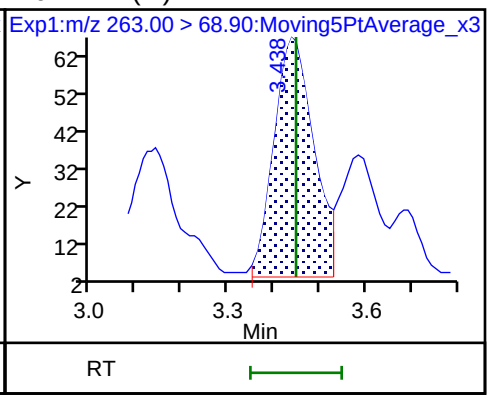
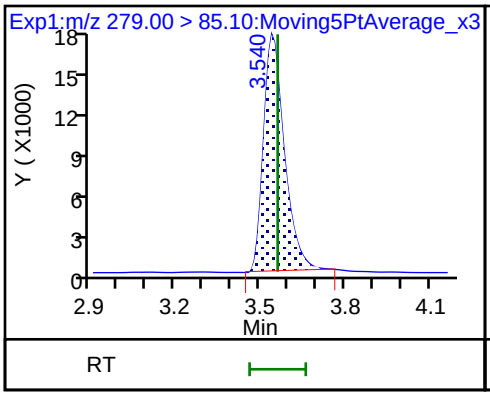


8 PFMBA



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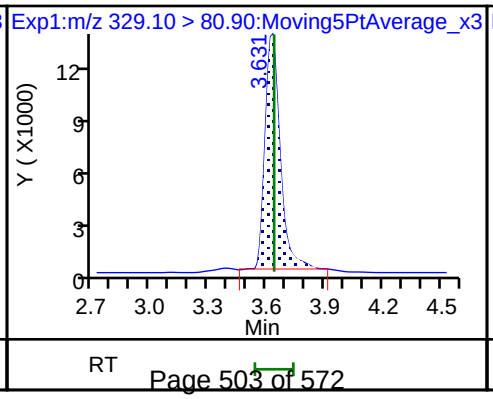

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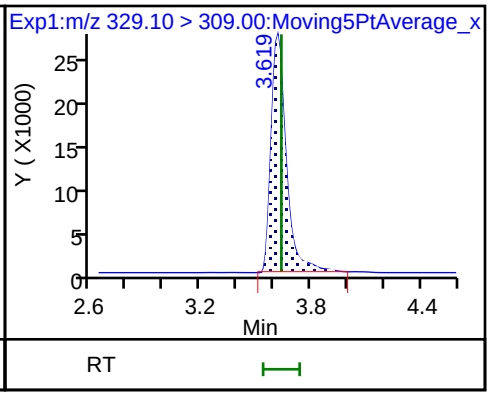

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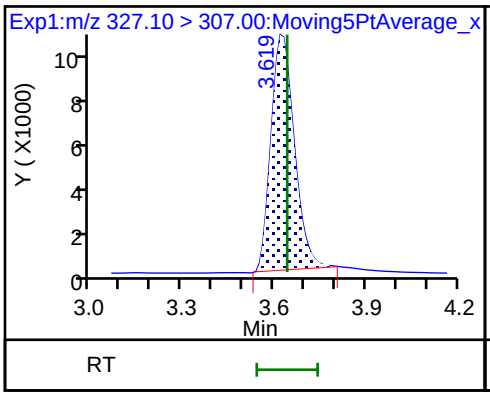

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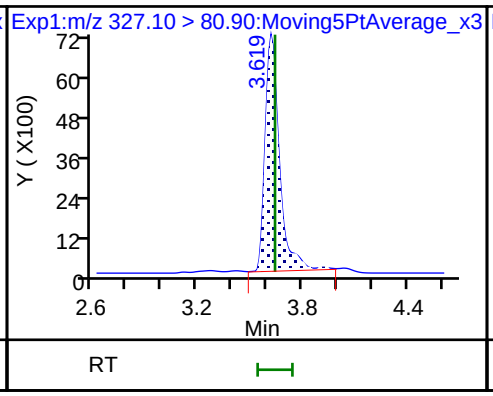

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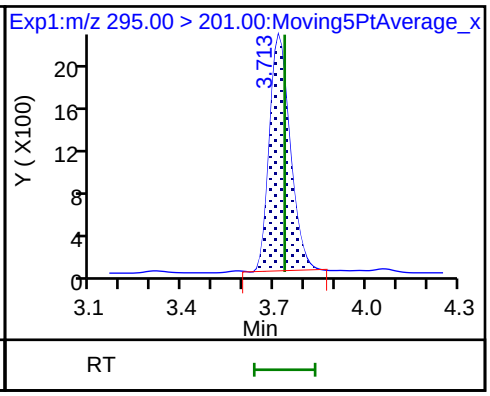

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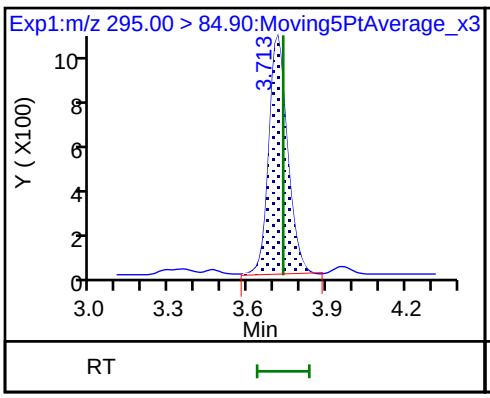

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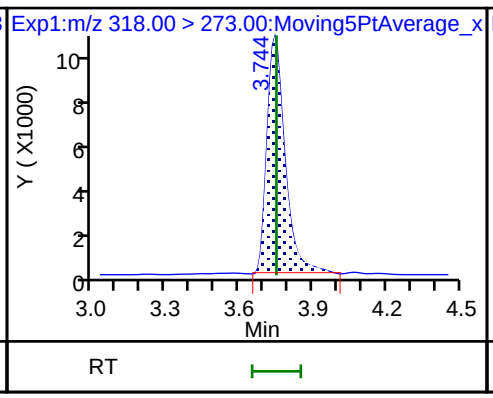

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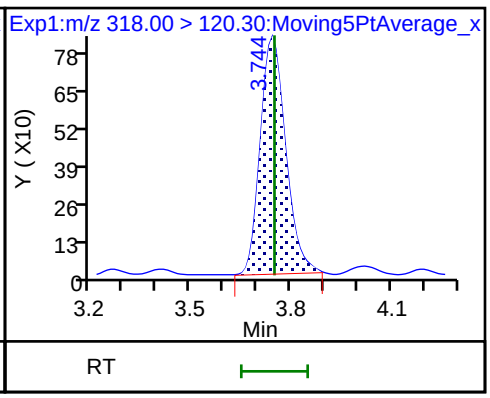

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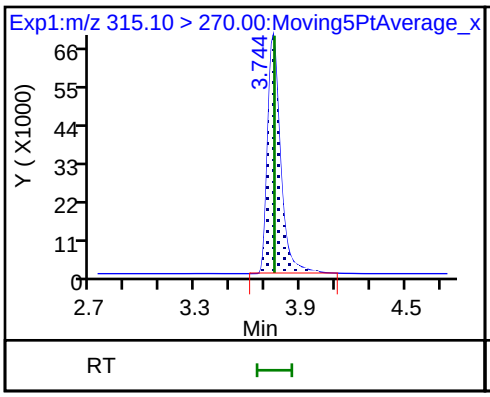

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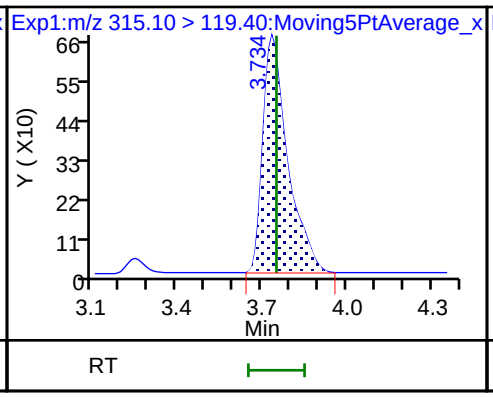

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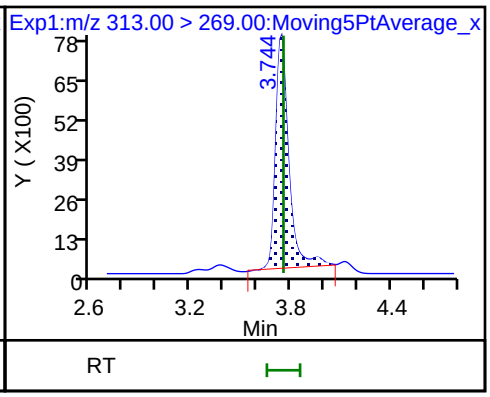

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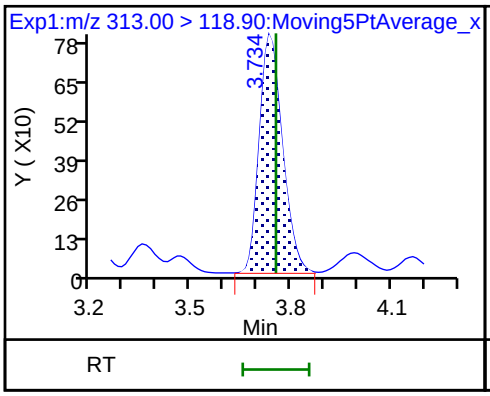

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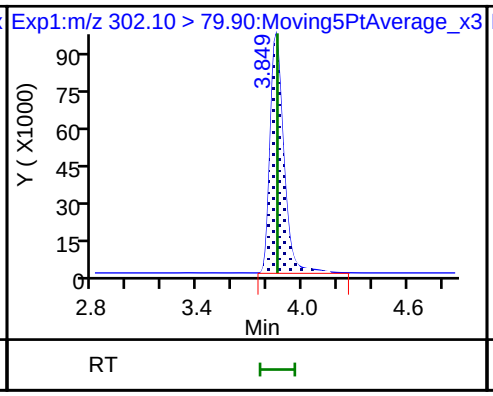

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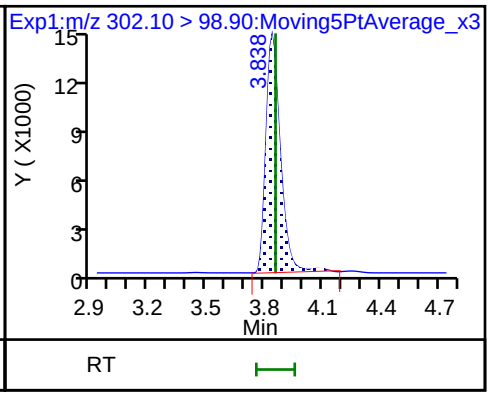

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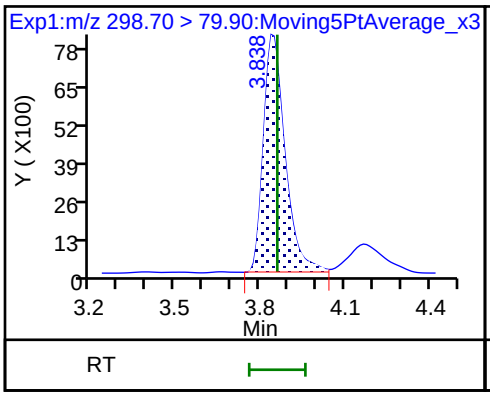

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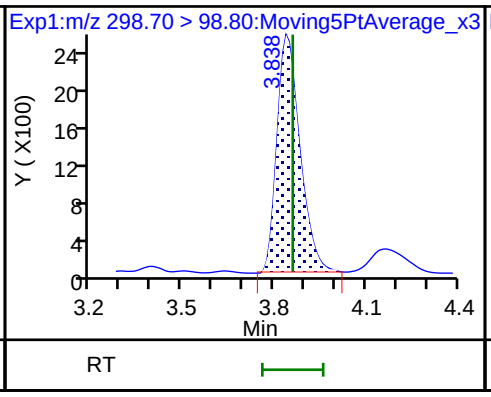

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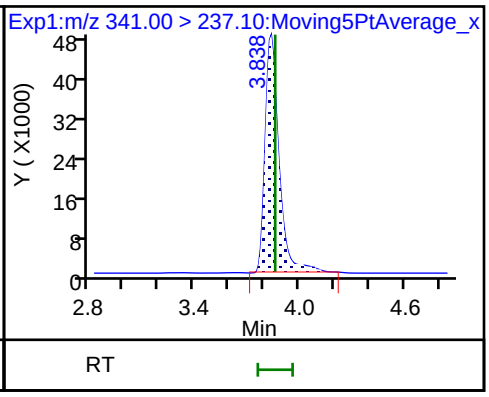

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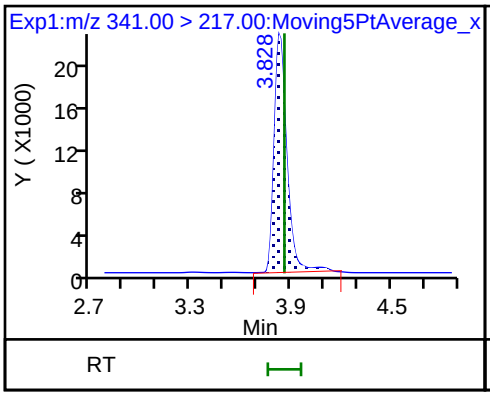

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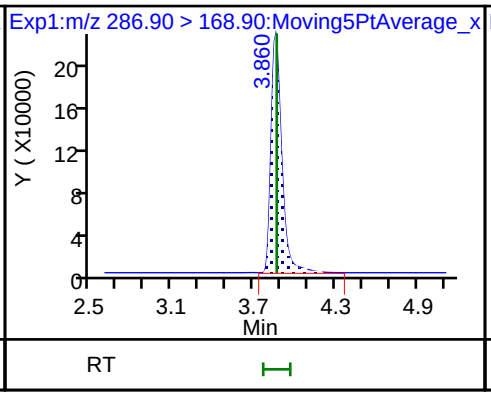

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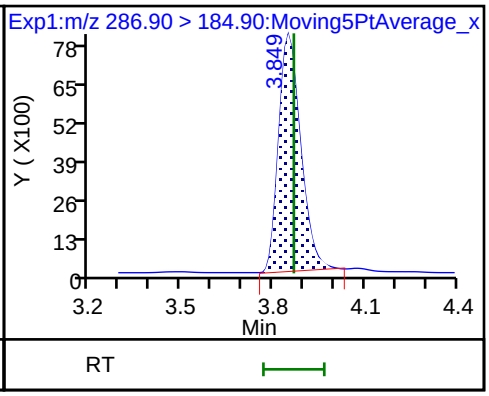

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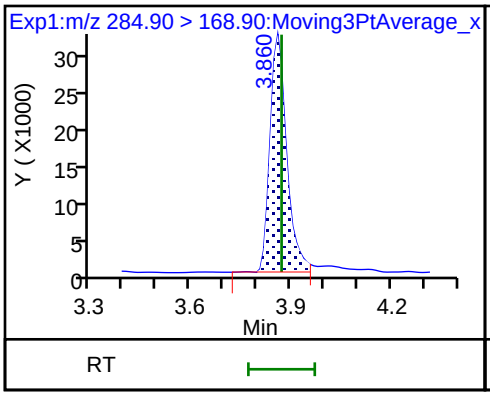

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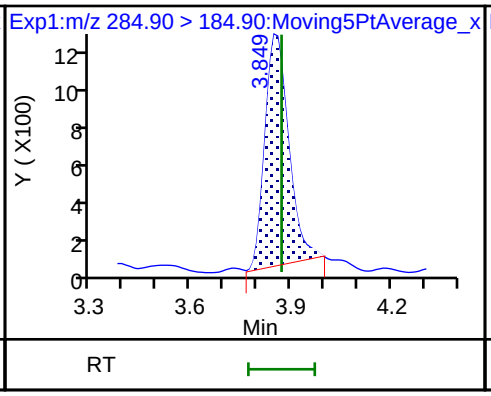

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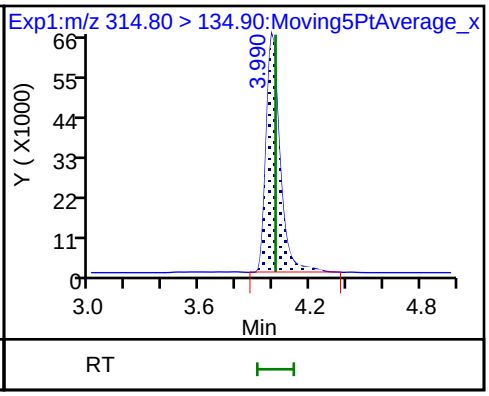

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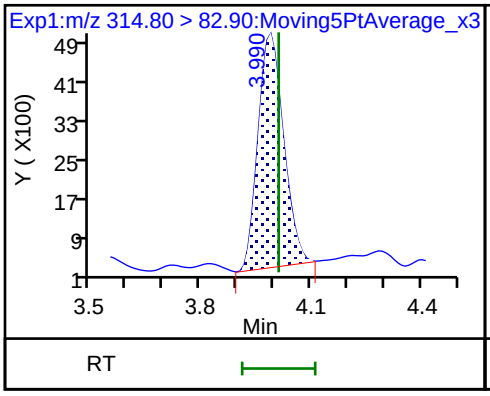

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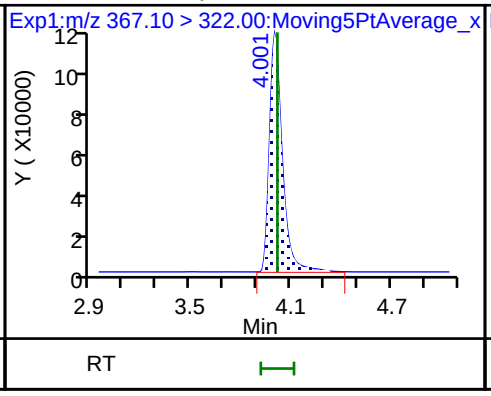

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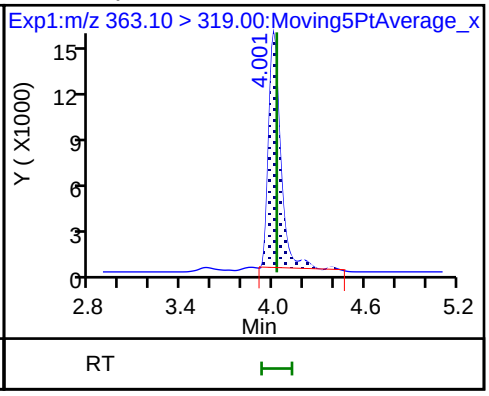

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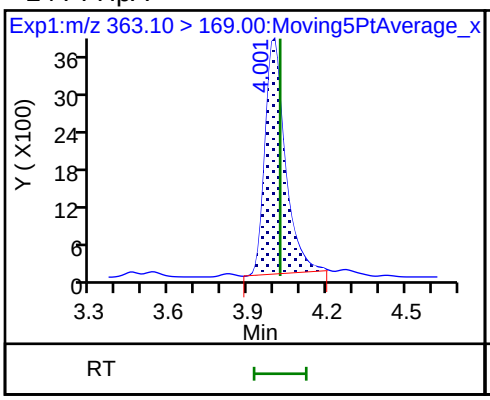

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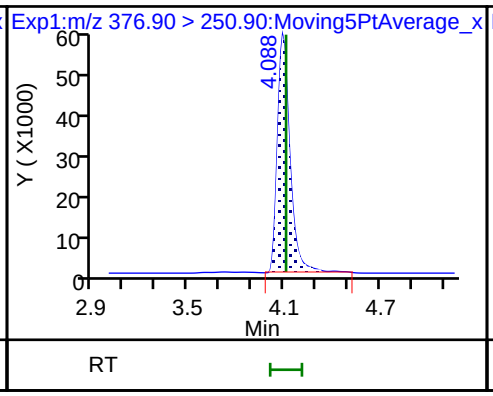

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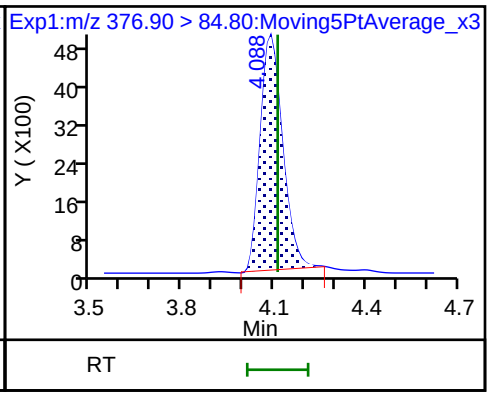

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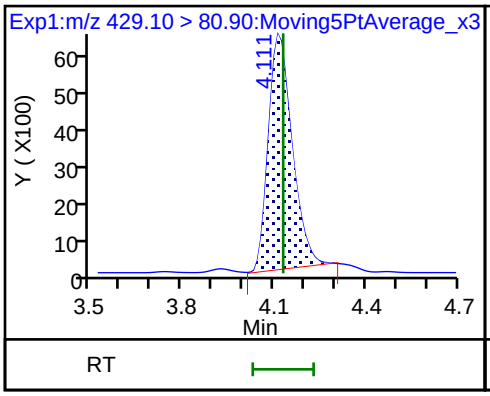

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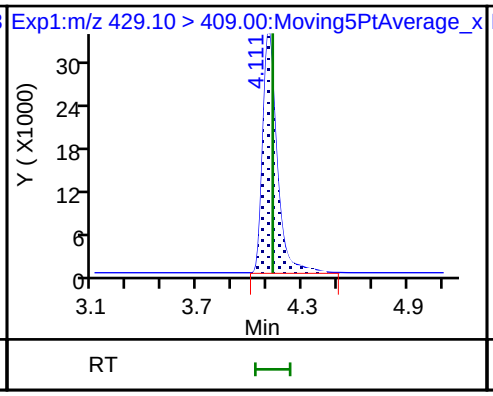

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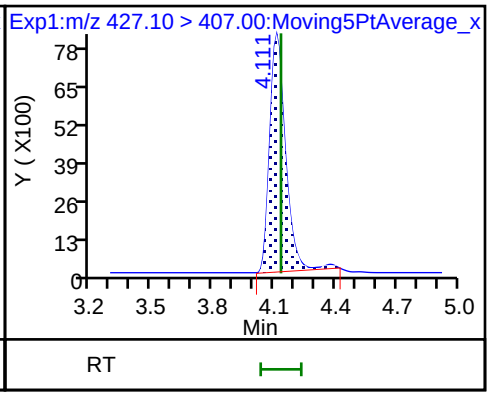

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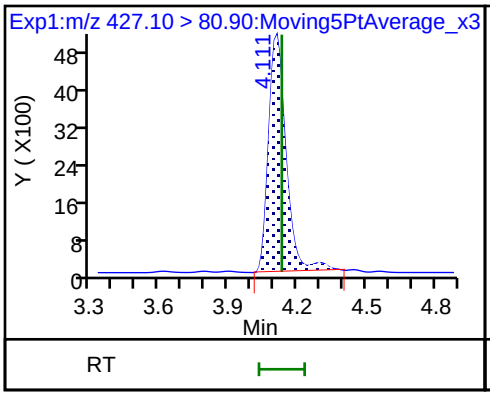

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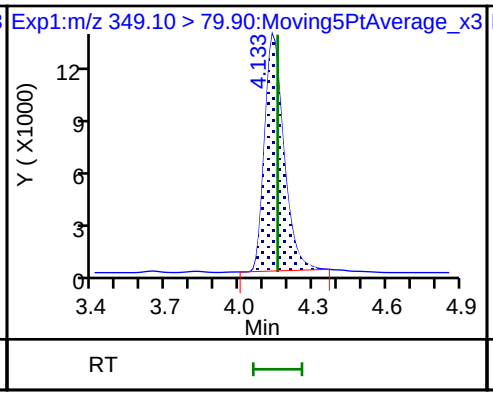

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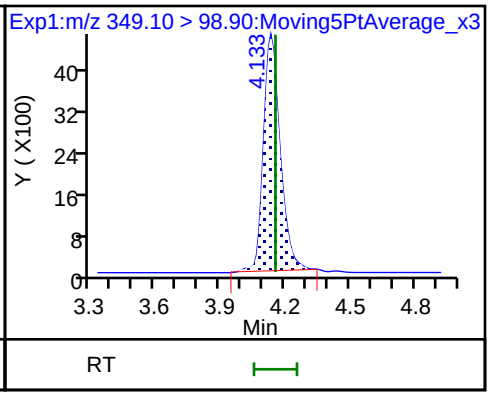
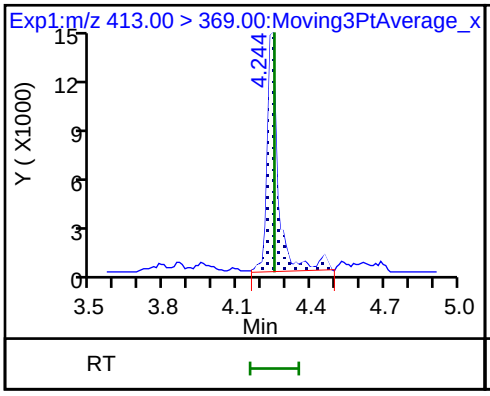
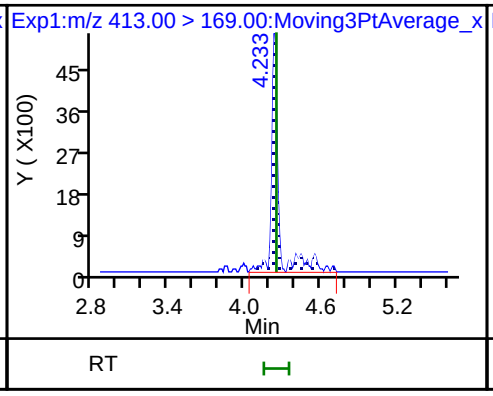


32 PFOA



32 PFOA



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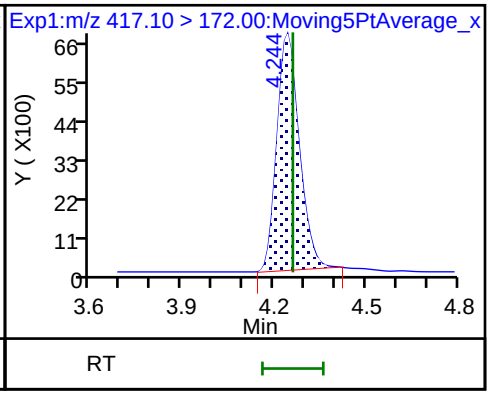

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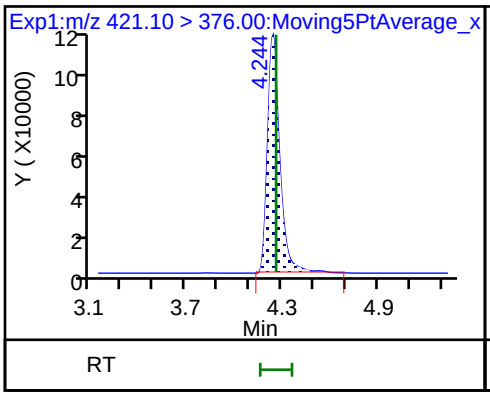

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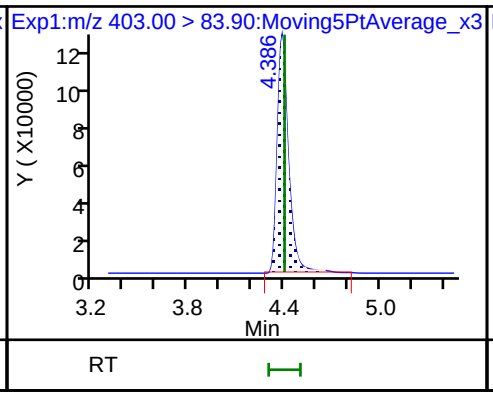

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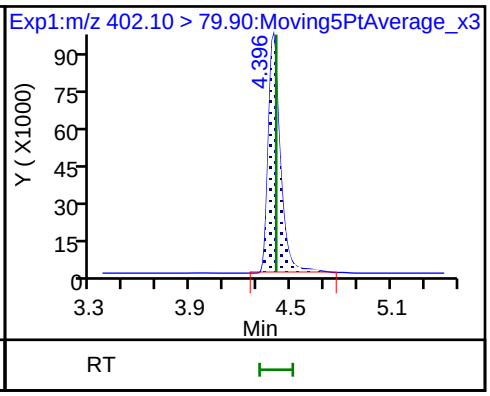

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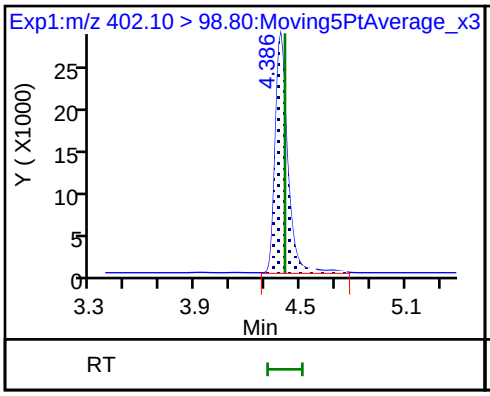

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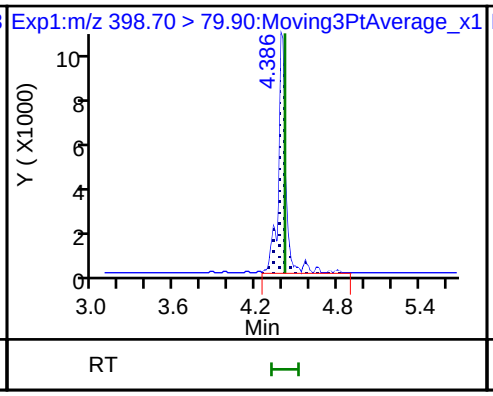
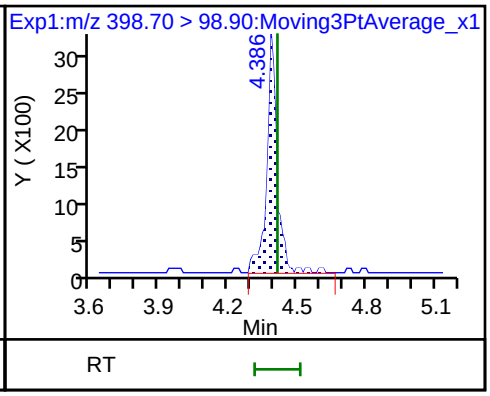
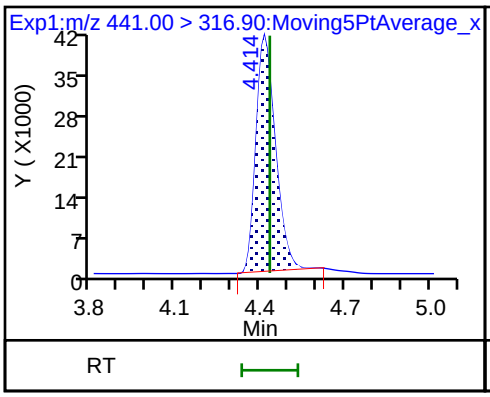


34 PFHxS



33 7:3 FTCA



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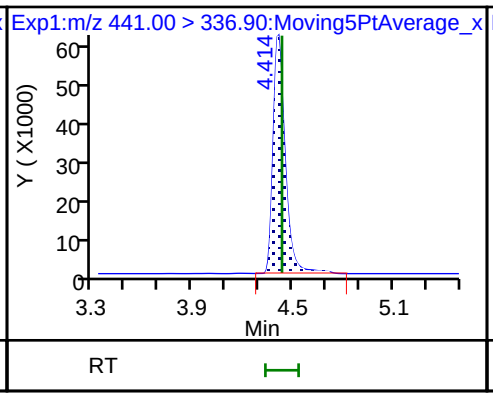

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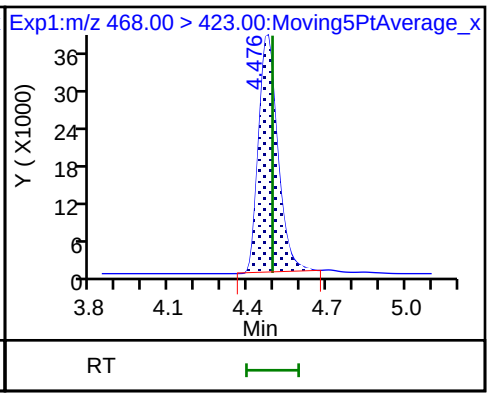

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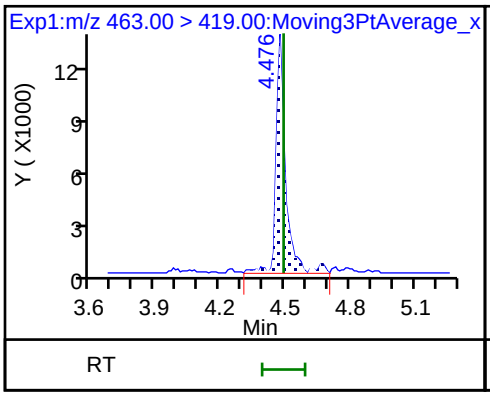

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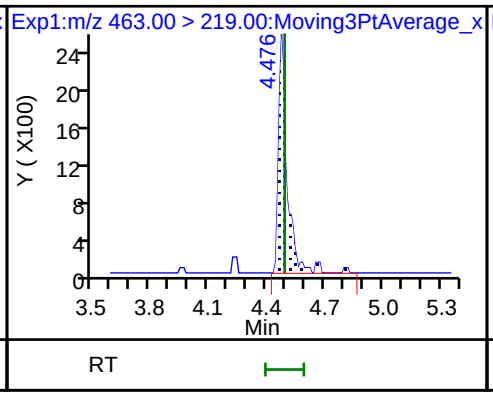
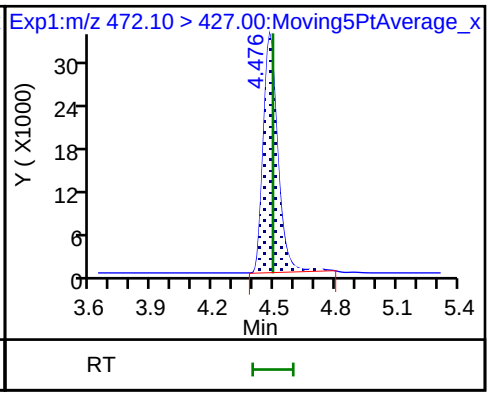


D 38 13C9 PFNA



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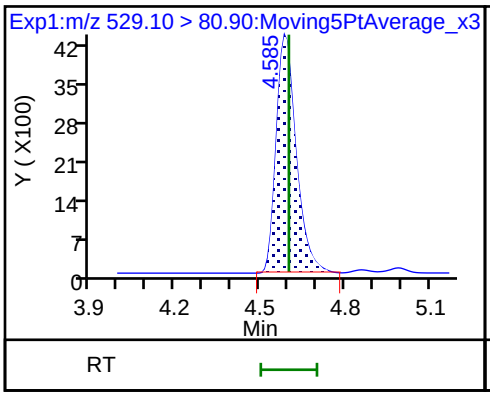

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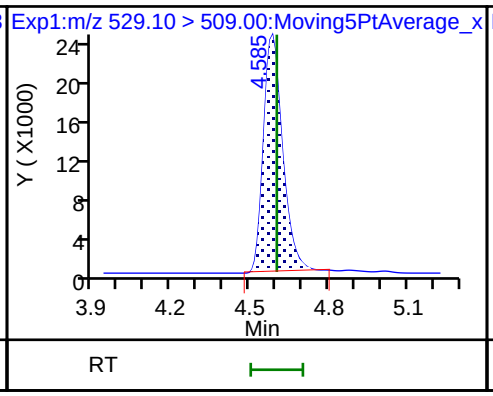

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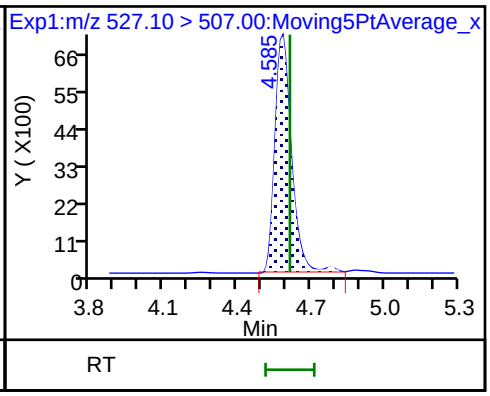

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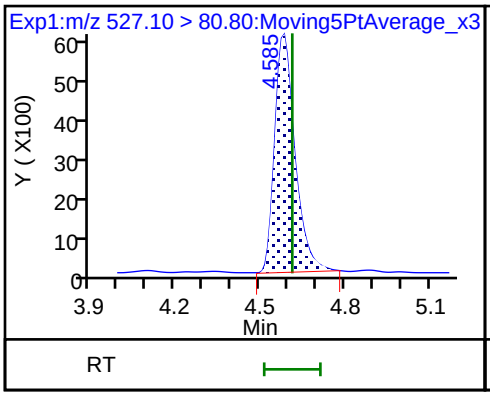

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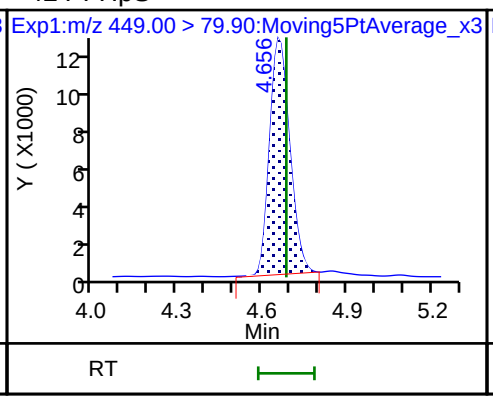

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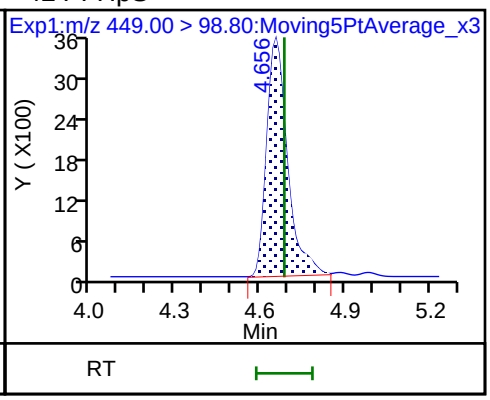
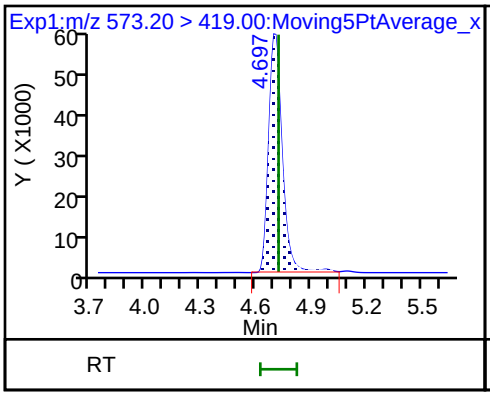


D 44 d3-NMeFOSAA



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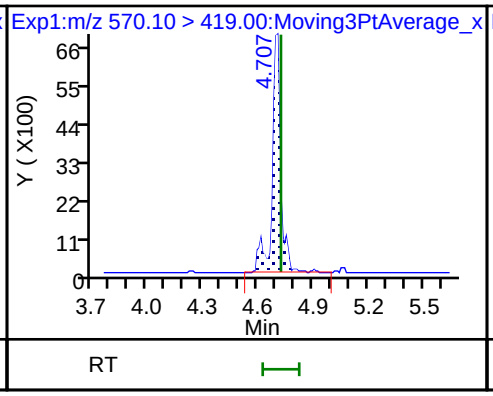

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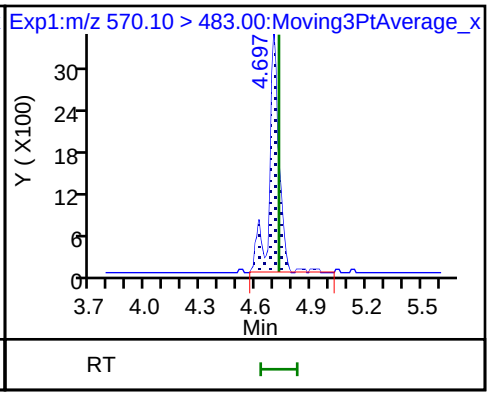

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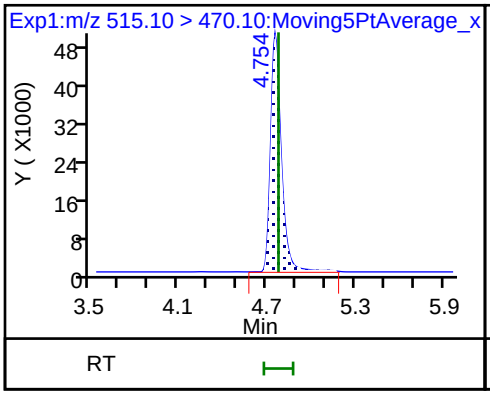

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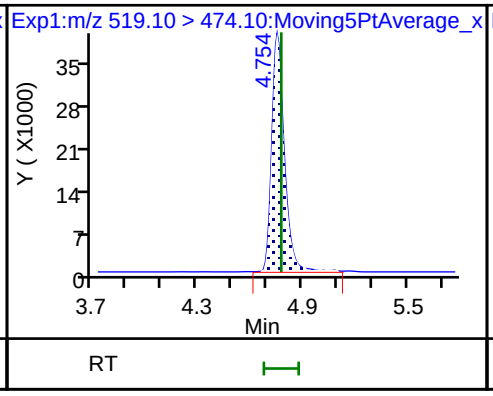

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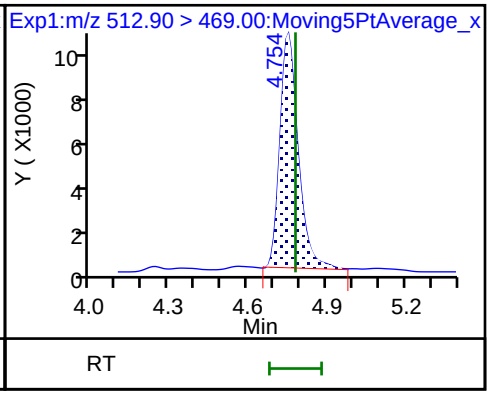

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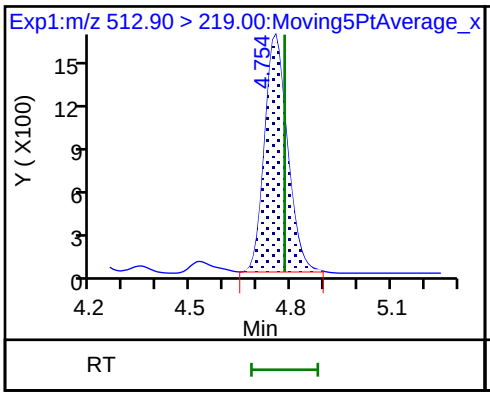

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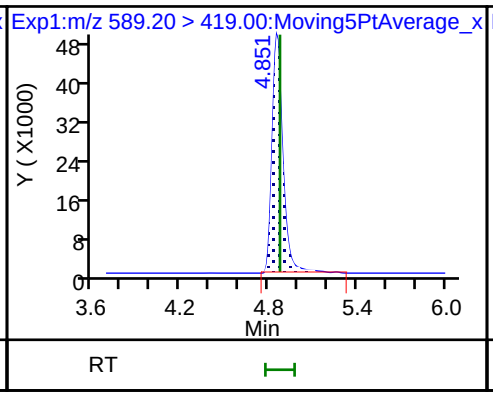

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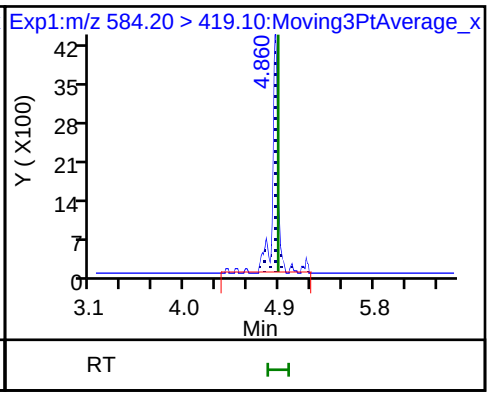

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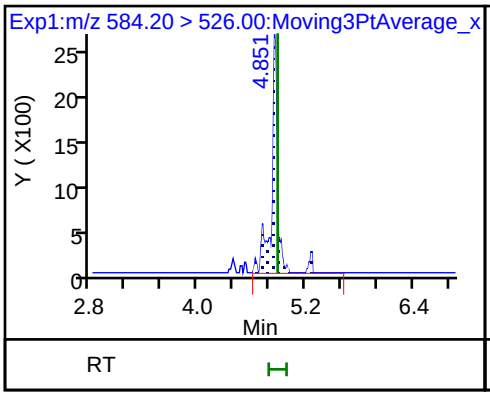

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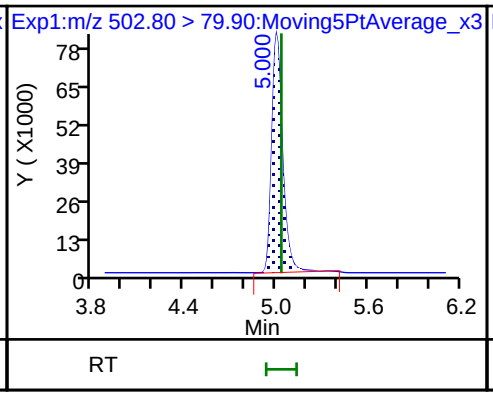

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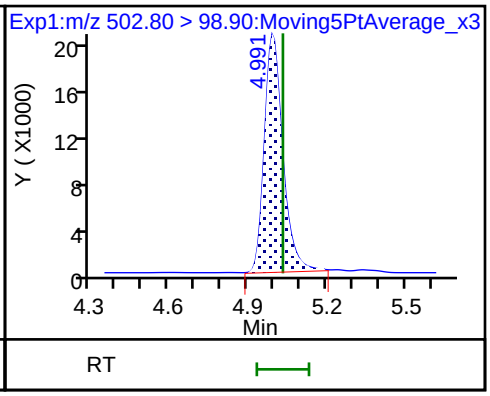

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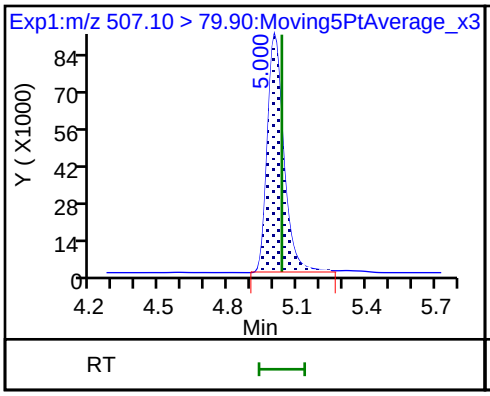

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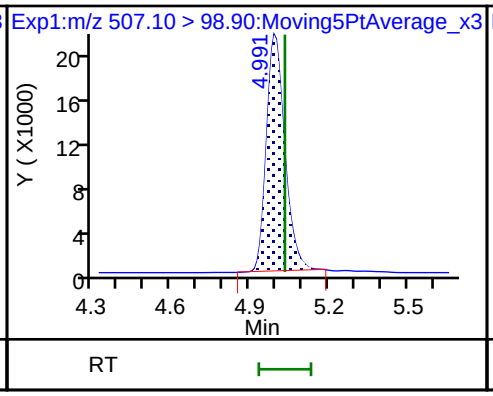

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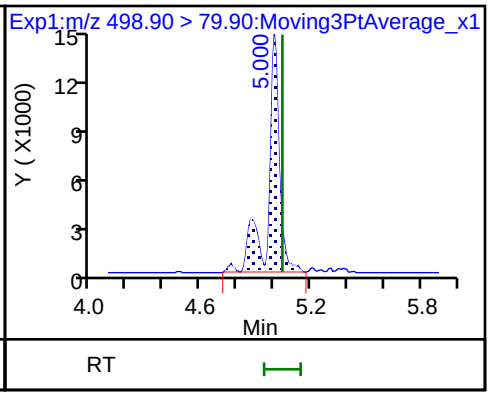

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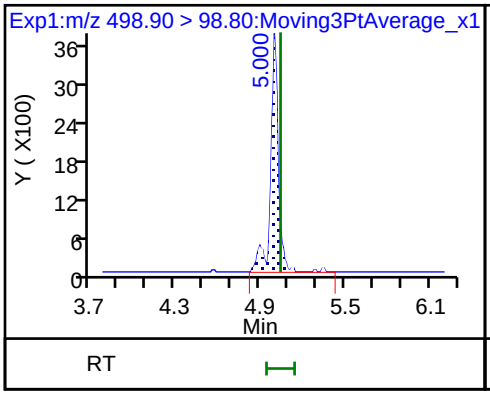

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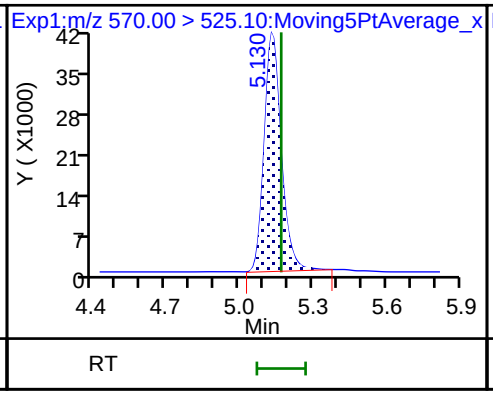

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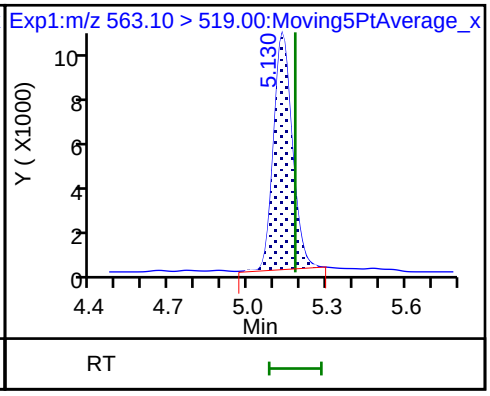

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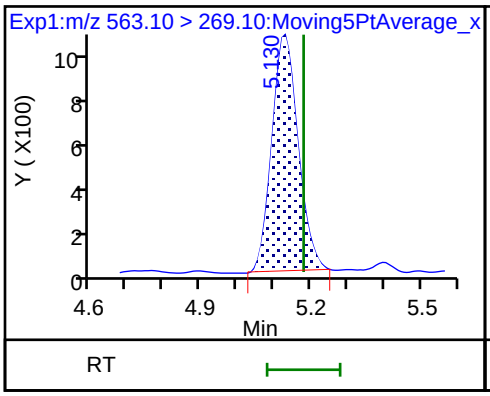

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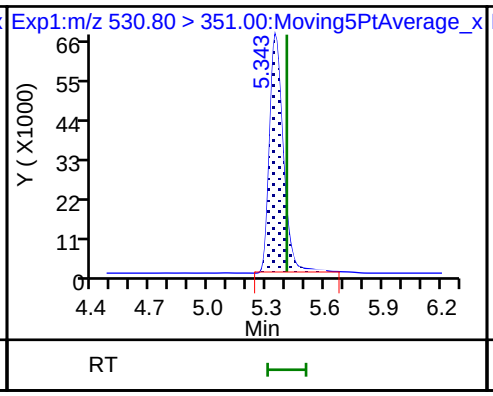

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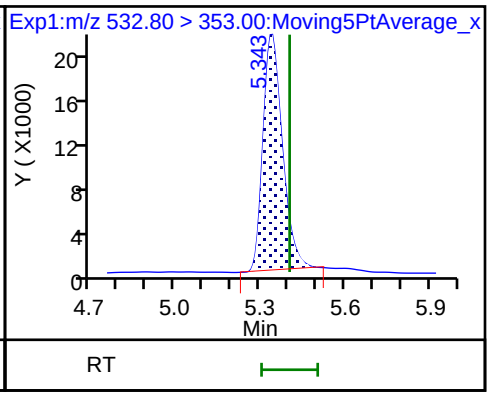

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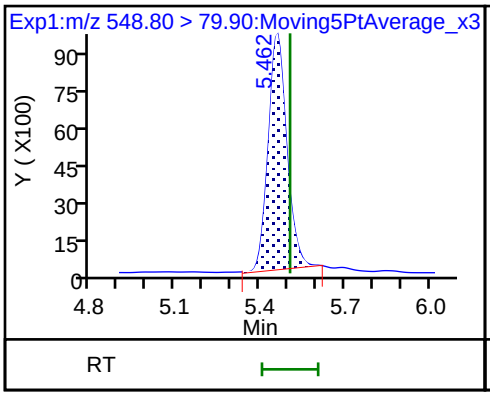

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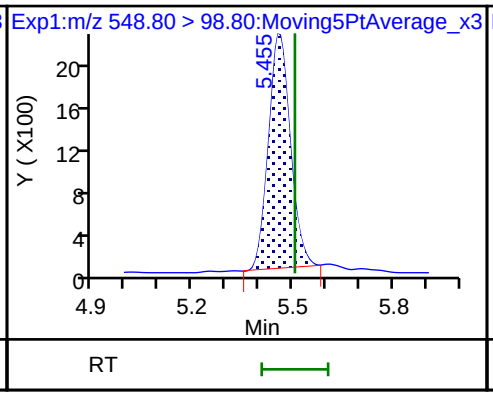

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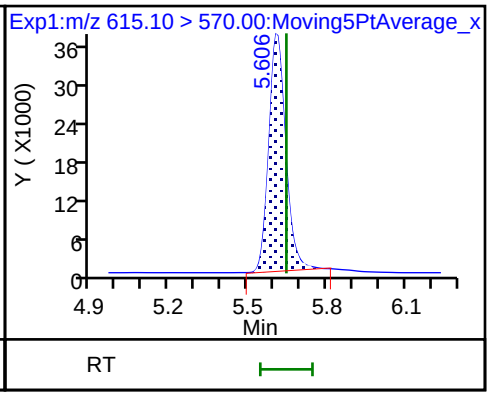

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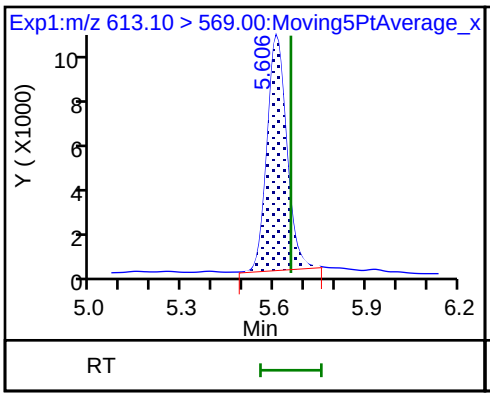

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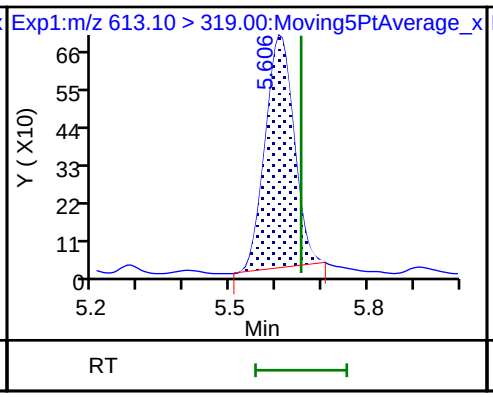

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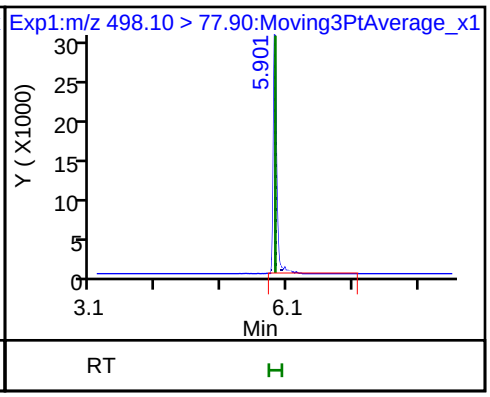

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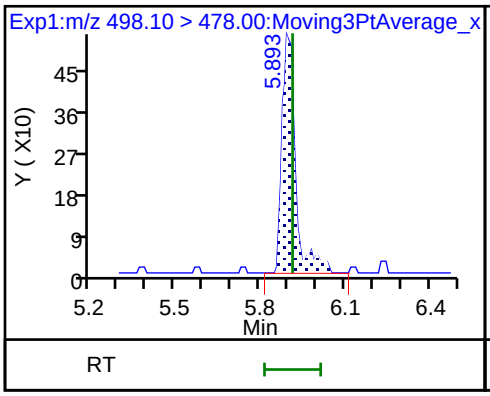

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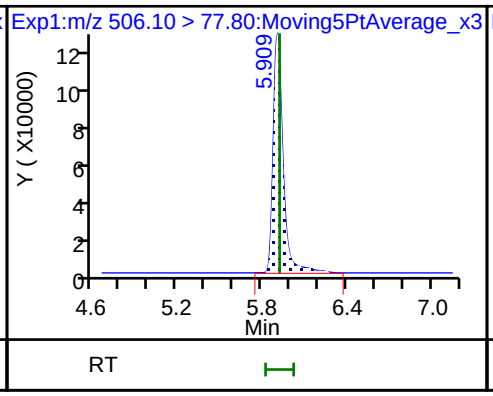

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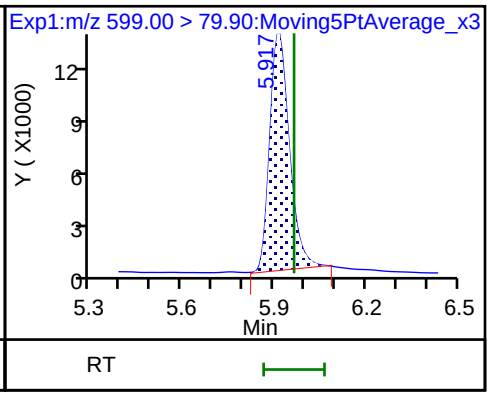

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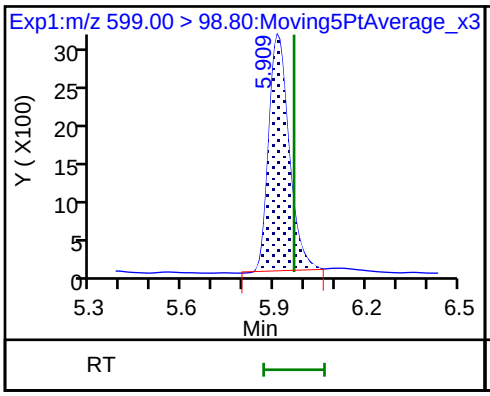

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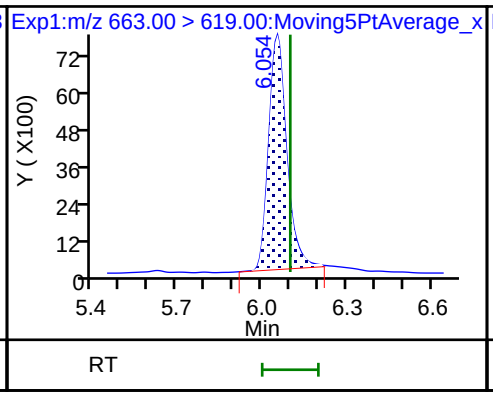

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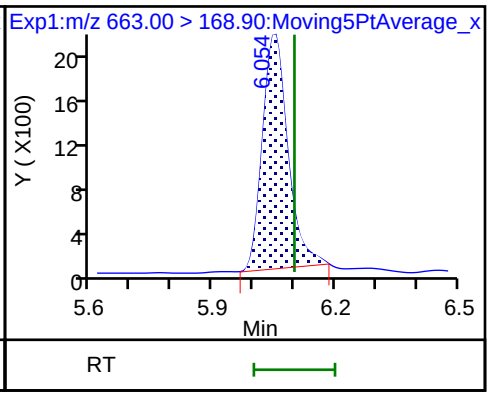

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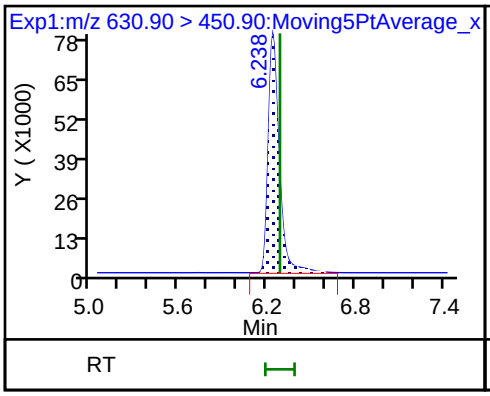

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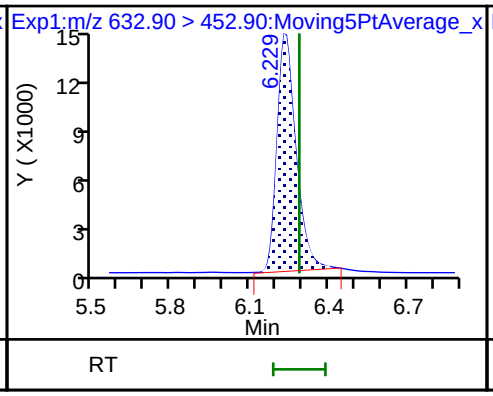

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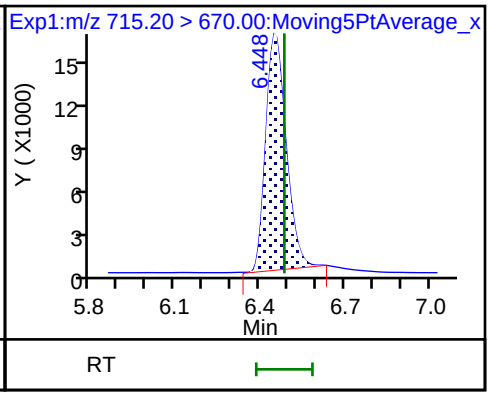

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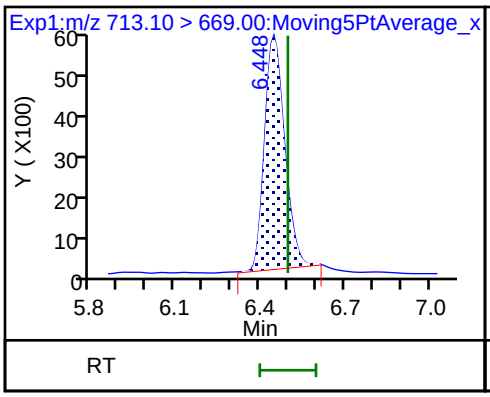

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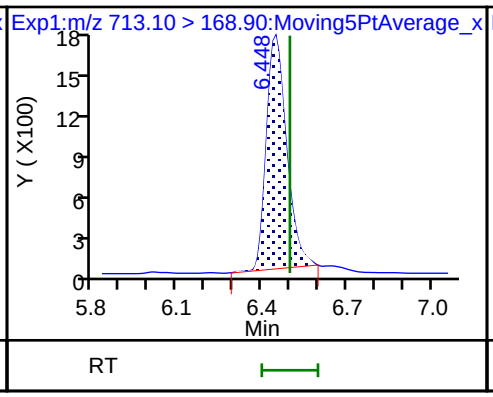

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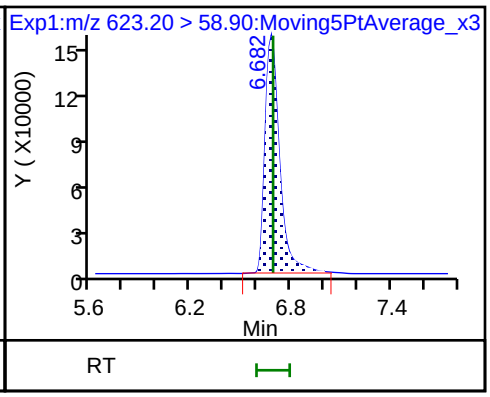
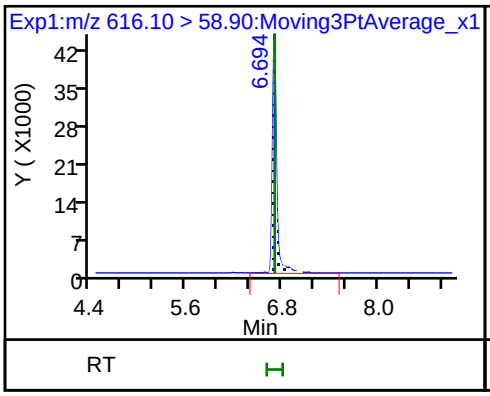
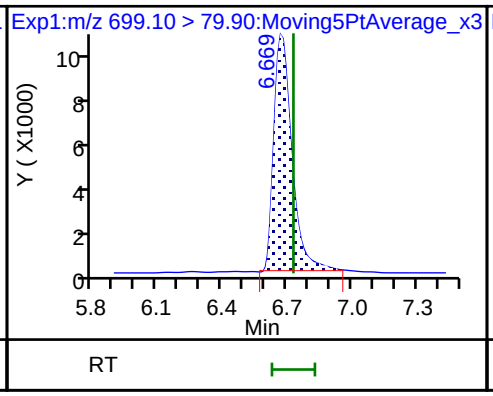


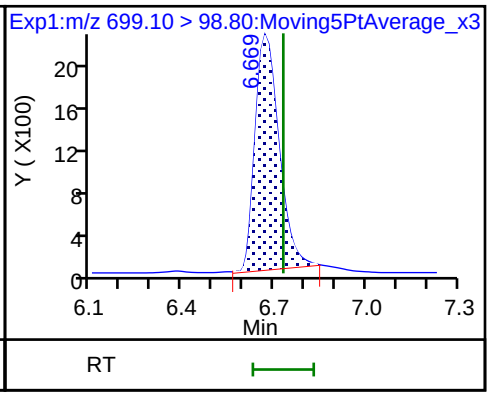
68 N-MeFOSE-M



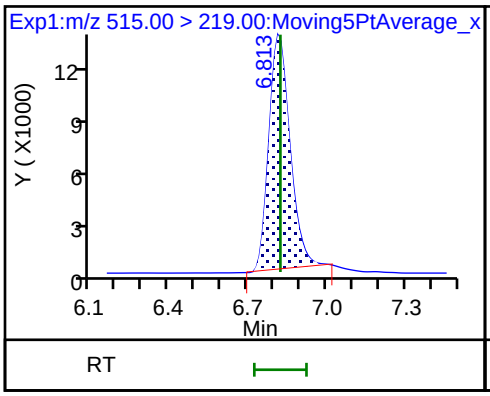
66 PFDoS



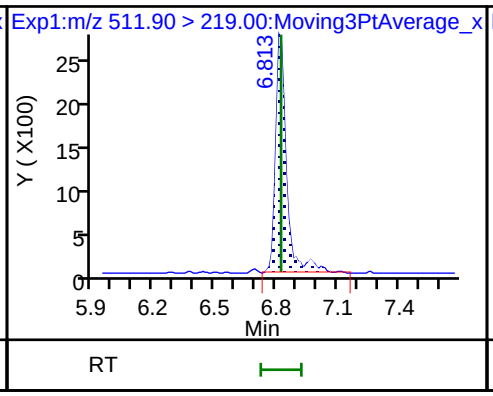
66 PFDoS



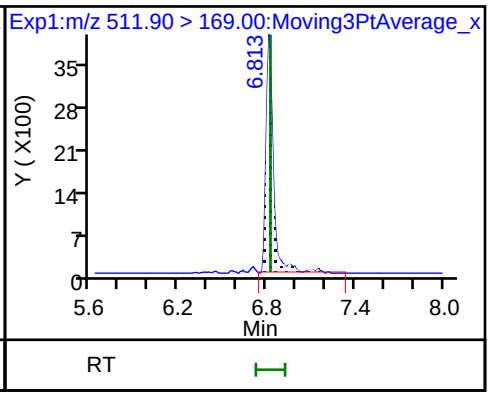
D 69 d3-NMePFOSA



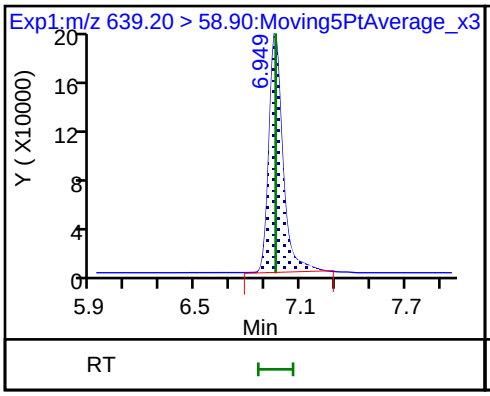
70 NMeFOSA



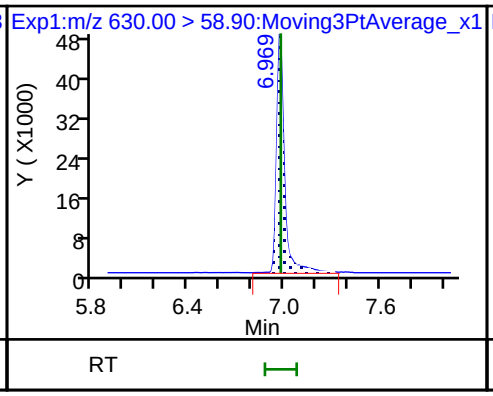
70 NMeFOSA



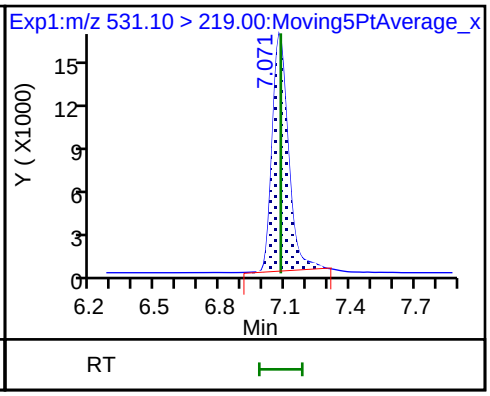
D 71 d9-N-EtFOSE



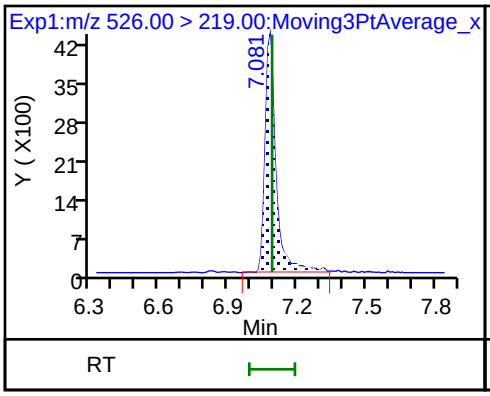
72 N-EtFOSE-M



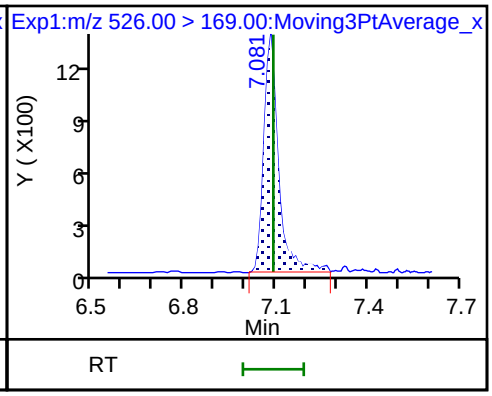
D 73 d5-NEtPFOSA



74 N-EtFOSA-M



74 N-EtFOSA-M



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

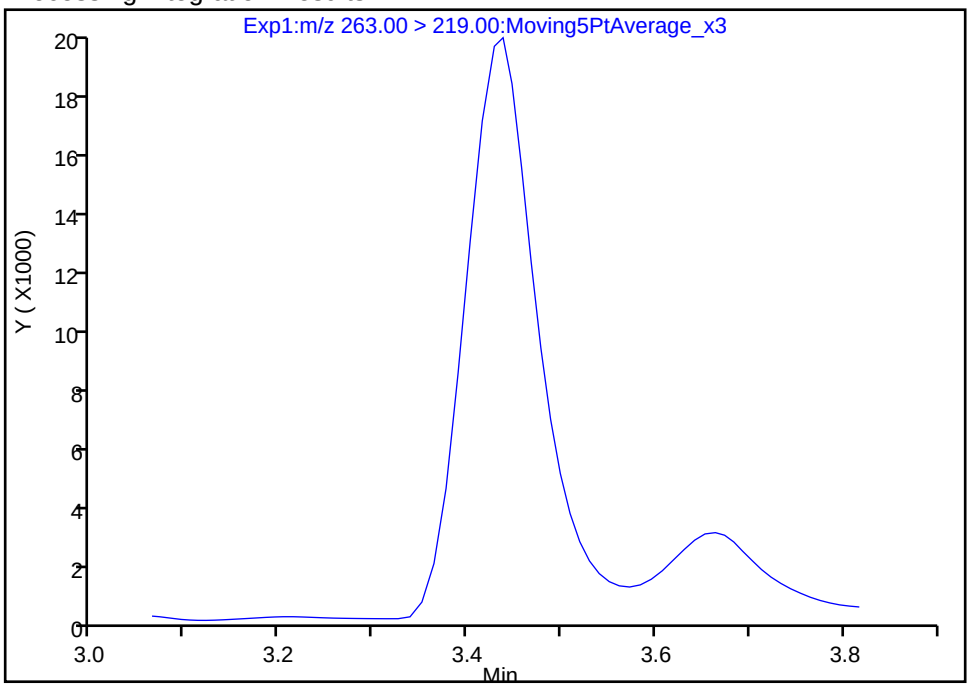
Data File:	\\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-55.d				
Injection Date:	08-Aug-2023 22:19:05	Instrument ID:	30729		
Lims ID:	LLCS 410-397379/3-A				
Client ID:					
Operator ID:	US19_USR_INS20263	ALS Bottle#:	40	Worklist Smp#:	50
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

6 PFPA, CAS: 2706-90-3

Signal: 1

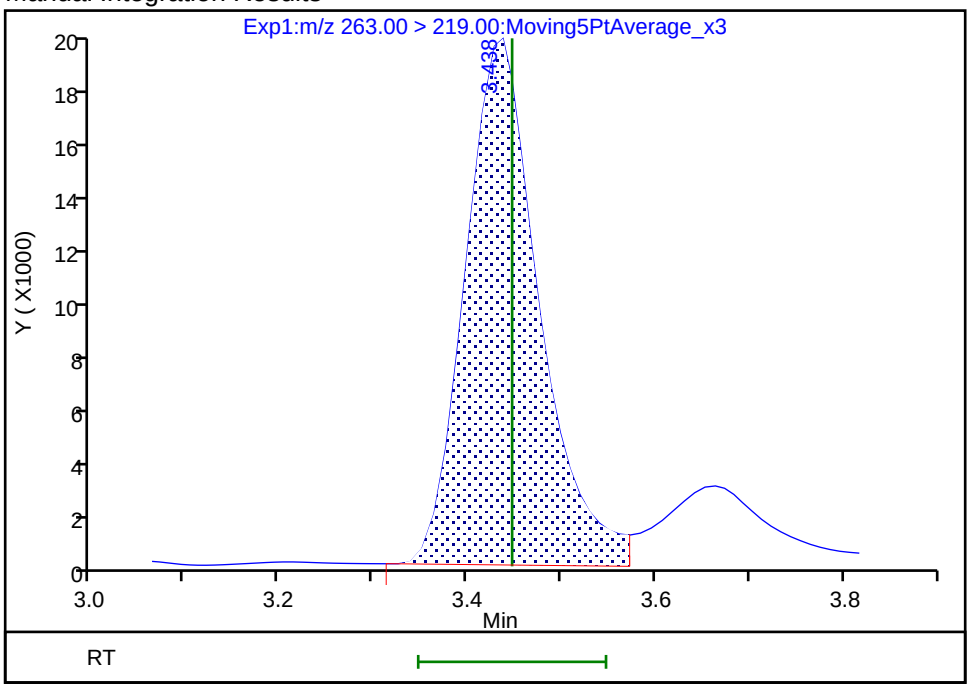
Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.44
Area: 107715
Amount: 0.716727
Amount Units: ng/ml



Reviewer: QY4X, 09-Aug-2023 09:20:47 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

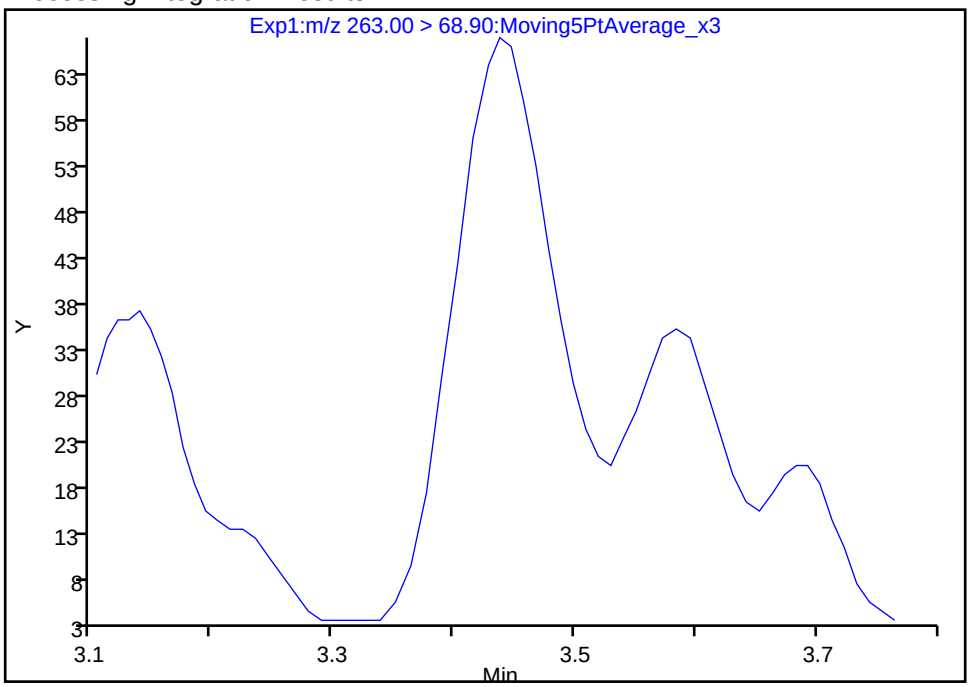
Data File:	\\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-55.d				
Injection Date:	08-Aug-2023 22:19:05	Instrument ID:	30729		
Lims ID:	LLCS 410-397379/3-A				
Client ID:					
Operator ID:	US19_USR_INS20263	ALS Bottle#:	40	Worklist Smp#:	50
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

6 PFPA, CAS: 2706-90-3

Signal: 2

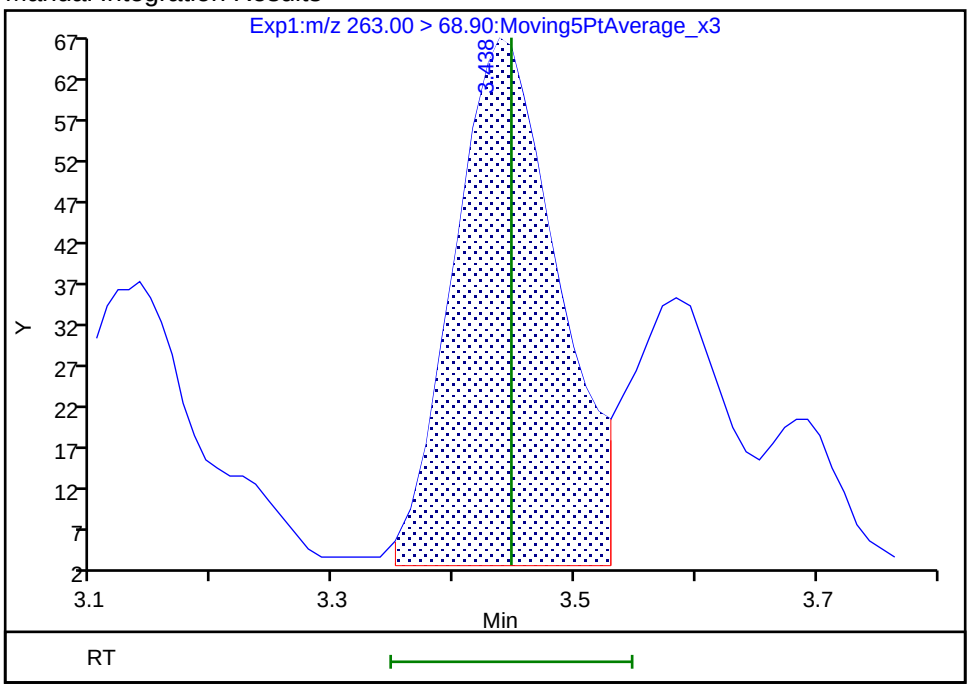
Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.44
Area: 389
Amount: 0.716727
Amount Units: ng/ml



Reviewer: QY4X, 09-Aug-2023 09:20:55 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: AD38758-001 MS Lab Sample ID: 460-282979-1 MS

Matrix: Water Lab File ID: 23AUG08-57.d

Analysis Method: 1633 Date Collected: 06/22/2023 13:22

Extraction Method: 1633 Date Extracted: 07/17/2023 07:22

Sample wt/vol: 266.2(mL) Date Analyzed: 08/08/2023 22:45

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	189.0		15.0	1.88
355-46-4	Perfluorohexanesulfonic acid	42.64		3.76	1.07
2058-94-8	Perfluoroundecanoic acid	46.55		3.76	0.94
335-67-1	Perfluorooctanoic acid	52.59		3.76	1.20
335-77-3	Perfluorodecanesulfonic acid	48.22		3.76	0.94
376-06-7	Perfluorotetradecanoic acid	46.63		3.76	0.94
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	167.0		15.0	2.82
31506-32-8	NMeFOSA	56.13		3.76	0.94
812-70-4	7:3 FTCA	1057		93.9	18.8
335-76-2	Perfluorodecanoic acid	52.65		3.76	0.94
72629-94-8	Perfluorotridecanoic acid	46.14		3.76	0.94
113507-82-7	PFEESA	78.27		7.51	0.94
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	52.39		3.76	0.94
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	187.7		15.0	3.19
375-95-1	Perfluorononanoic acid	48.38		3.76	0.94
13252-13-6	HFPO-DA	178.5		15.0	3.76
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	497.1		37.6	9.39
2706-91-4	Perfluoropentanesulfonic acid	46.10		3.76	0.94
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	162.3		15.0	4.70
68259-12-1	Perfluorononanesulfonic acid	50.93		3.76	0.75
375-85-9	Perfluoroheptanoic acid	47.01		3.76	0.98
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	171.3		15.0	3.76
1763-23-1	Perfluorooctanesulfonic acid	49.96		3.76	0.94
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	212.9		15.0	4.88
377-73-1	Perfluoro-3-methoxypropanoic acid	90.25		7.51	0.94
375-22-4	Perfluorobutanoic acid	183.5		15.0	3.76
2991-50-6	NEtFOSAA	48.04		3.76	1.31

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: AD38758-001 MS Lab Sample ID: 460-282979-1 MS

Matrix: Water Lab File ID: 23AUG08-57.d

Analysis Method: 1633 Date Collected: 06/22/2023 13:22

Extraction Method: 1633 Date Extracted: 07/17/2023 07:22

Sample wt/vol: 266.2(mL) Date Analyzed: 08/08/2023 22:45

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-55-1	Perfluorododecanoic acid	44.69		3.76	0.94
307-24-4	Perfluorohexanoic acid	45.61		3.76	0.94
863090-89-5	Perfluoro(4-methoxybutanoic acid)	86.75		7.51	1.88
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	97.30		7.51	1.88
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	43.83		3.76	1.69
2706-90-3	Perfluoropentanoic acid	95.10		7.51	1.88
914637-49-3	5:3 FTCA	1093		93.9	18.8
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	470.8		37.6	9.39
754-91-6	Perfluorooctanesulfonamide	46.65		3.76	0.94
356-02-5	3:3 FTCA	207.5		18.8	2.82
2355-31-9	NMeFOSAA	46.16		7.51	2.25
375-73-5	Perfluorobutanesulfonic acid	45.53		3.76	0.56
375-92-8	Perfluoroheptanesulfonic acid	46.04		3.76	0.75

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: AD38758-001 MS Lab Sample ID: 460-282979-1 MS

Matrix: Water Lab File ID: 23AUG08-57.d

Analysis Method: 1633 Date Collected: 06/22/2023 13:22

Extraction Method: 1633 Date Extracted: 07/17/2023 07:22

Sample wt/vol: 266.2(mL) Date Analyzed: 08/08/2023 22:45

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	91.6		10-130
STL01893	13C5 PFPeA	104		35-150
STL02577	13C5 PFHxA	104		55-150
STL01892	13C4 PFHpA	95.0		55-150
STL01052	13C8 PFOA	100		60-140
STL02578	13C9 PFNA	89.8		55-140
STL02579	13C6 PFDA	92.3		50-140
STL02580	13C7 PFUnA	95.5		30-140
STL02703	13C2-PFDoDA	94.0		10-150
STL02116	13C2 PFTeDA	88.6		10-130
STL02337	13C3 PFBS	101		55-150
STL02581	13C3 PFHxS	88.7		55-150
STL01054	13C8 PFOS	83.3		45-140
STL01056	13C8 FOSA	91.7		30-130
STL02118	d3-NMeFOSAA	85.9		45-200
STL02117	d5-NEtFOSAA	80.1		10-200
STL02395	M2-4:2 FTS	87.7		60-200
STL02279	M2-6:2 FTS	101		60-200
STL02280	M2-8:2 FTS	87.9		50-200
STL02255	13C3 HFPO-DA	96.9		25-160
STL02277	d7-N-MeFOSE-M	72.2		10-150
STL02278	d9-N-EtFOSE-M	72.6		10-150
STL02704	d5-NEtPFOSA	52.8		10-130
STL02705	d3-NMePFOSA	48.8		15-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-57.d
Lims ID: 460-282979-A-1-B MS
Client ID: AD38758-001
Sample Type: MS
Inject. Date: 08-Aug-2023 22:45:14 ALS Bottle#: 42 Worklist Smp#: 52
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 460-282979-A-1-B MS
Misc. Info.: Plate: 1 Rack: 1 410-0090889-052
Operator ID: US19_USR_INS20263 Instrument ID: 30729

Method: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\PFAS_30729_1633.m
Limit Group: LC - 1633 ICAL
Last Update: 09-Aug-2023 09:51:16 Calib Date: 05-Aug-2023 11:25:28
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-11.d

Column 1 : Det: EXP1
Process Host: CTX1649

First Level Reviewer: QY4X Date: 09-Aug-2023 09:25:04
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4-PFBA										
216.80 > 171.90	2.925	2.932	-0.007	1.000	1268534	9.16		91.6	75730	
* 3 13C3PFBA										
216.00 > 172.00	2.925	2.932	-0.007		852788	5.00			1689	
1 PFBA										
212.80 > 168.90	2.925	2.942	-0.017	1.000	1034756	9.77		97.5	4926	
4 PFMPA										
229.00 > 84.90	3.156	3.167	-0.011	0.919	682742	4.81		95.9	47399	
5 3:3 FTCA										
241.00 > 177.00	3.156	3.167	-0.011	0.919	78567	11.0	Target=1.11	88.3	5480	
241.00 > 117.00	3.156	3.167	-0.011	0.919	80320		0.98(0.55-1.66)		2511	
D 7 13C5 PFPeA										
268.30 > 223.00	3.435	3.444	-0.009	0.916	392094	5.19		104	24001	
6 PFPA										
263.00 > 219.00	3.435	3.447	-0.012	1.000	718927	5.06	Target=1273.32	101	21361	
263.00 > 68.90	3.435	3.447	-0.012	1.000	825		871.43(636.66-1909.99)		48.3	
8 PFMBA										
279.00 > 85.10	3.548	3.562	-0.014	1.033	526960	4.62		92.2	32629	
D 10 13C2-4:2FTS										
329.10 > 80.90	3.628	3.638	-0.010	0.826	59900	4.11	Target=0.35	87.7	2319	
329.10 > 309.00	3.628	3.638	-0.010	0.826	180531		0.33(0.18-0.53)	87.7	10431	
9 4:2FTS										
327.10 > 307.00	3.628	3.642	-0.014	1.000	341814	10.0	Target=1.40	106	20604	
327.10 > 80.90	3.628	3.642	-0.014	1.000	242573		1.41(0.70-2.10)		11091	
12 NFDHA										
295.00 > 201.00	3.719	3.734	-0.015	0.992	69600	5.18	Target=2.17	103	4631	
295.00 > 84.90	3.719	3.734	-0.015	0.992	29788		2.34(1.08-3.25)		1885	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 14 13C5 PFHxA										
318.00 > 273.00	3.750	3.750	0.0	1.000	47941	2.61	Target=15.34	104	3241	
318.00 > 120.30	3.750	3.750	0.0	1.000	3124		15.35(7.67-23.01)	104	180	
* 15 13C2 PFHxA										
315.10 > 270.00	3.750	3.750	0.0		262835	2.50	Target=103.53		16937	
315.10 > 119.40	3.729	3.750	-0.021		3156		83.28(51.76-155.29)		232	
13 PFHxA										
313.00 > 269.00	3.740	3.755	-0.015	0.997	252867	2.43	Target=13.63	97.0	6012	
313.00 > 118.90	3.740	3.755	-0.015	0.997	17072		14.81(6.82-20.45)		1142	
D 18 13C3 PFBS										
302.10 > 79.90	3.844	3.856	-0.012	0.875	482682	2.35	Target=6.99	101	29994	
302.10 > 98.90	3.844	3.856	-0.012	0.875	67697		7.13(3.50-10.49)	101	4397	
17 PFBS										
298.70 > 79.90	3.844	3.860	-0.016	1.000	303658	2.42	Target=3.41	109	18751	
298.70 > 98.80	3.844	3.860	-0.016	1.000	90374		3.36(1.70-5.11)		4281	
16 5:3 FTCA										
341.00 > 237.10	3.844	3.860	-0.016	1.025	1792743	58.2	Target=2.68	93.0	108066	
341.00 > 217.00	3.834	3.860	-0.026	1.022	662792		2.70(1.34-4.01)		41047	
21 TCDCA										
498.10 > 80.00	3.823	3.867	-0.044	0.764	330	0.002080		0.0	170	
D 20 13C3 HFPO-DA										
286.90 > 168.90	3.867	3.867	0.0	1.031	1124386	9.69	Target=29.00	96.9	67842	
286.90 > 184.90	3.856	3.867	-0.011	1.028	35284		31.87(14.50-43.50)	96.9	2297	
19 HFPO-DA										
284.90 > 168.90	3.867	3.872	-0.005	1.000	731262	9.50	Target=17.67	95.0	3493	
284.90 > 184.90	3.856	3.872	-0.016	0.997	36476		20.05(8.84-26.51)		2234	
22 TUDCA										
498.20 > 80.00	3.954	3.944	0.010	0.790	572	0.003606		0.0	120	
23 PFEESA										
314.80 > 134.90	3.997	4.012	-0.015	1.066	2292238	4.17	Target=14.15	93.5	147194	
314.80 > 82.90	3.997	4.012	-0.015	1.066	148193		15.47(7.08-21.23)		3438	
D 25 13C4 PFHpA										
367.10 > 322.00	4.007	4.018	-0.011	1.069	523193	2.37		95.0	32133	
24 PFHpA										
363.10 > 319.00	4.007	4.022	-0.015	1.000	494370	2.50	Target=3.62	99.9	11578	
363.10 > 169.00	3.997	4.022	-0.025	0.997	138007		3.58(1.81-5.44)		6677	
26 ADONA										
376.90 > 250.90	4.095	4.111	-0.016	1.059	1931944	8.89	Target=12.84	94.1	116557	
376.90 > 84.80	4.084	4.111	-0.027	1.056	156006		12.38(6.42-19.27)		9525	
D 29 13C2-6:2FTS										
429.10 > 80.90	4.118	4.129	-0.011	0.938	36068	4.80	Target=0.12	101	2202	
429.10 > 409.00	4.107	4.129	-0.022	0.935	210104		0.17(0.06-0.18)	101	12692	
27 6:2FTS										
427.10 > 407.00	4.118	4.132	-0.014	1.000	299142	8.64	Target=1.71	90.8	17746	
427.10 > 80.90	4.107	4.132	-0.025	0.997	214924		1.39(0.85-2.56)		12690	
28 PFPeS										
349.10 > 79.90	4.139	4.155	-0.016	0.943	479421	2.45	Target=3.85	104	21683	
349.10 > 98.90	4.139	4.155	-0.016	0.943	127971		3.75(1.93-5.78)		7586	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
32 PFOA										
413.00 > 369.00	4.239	4.250	-0.011	1.000	334948	2.80	Target=2.36	112	315	
413.00 > 169.00	4.239	4.250	-0.011	1.000	118128		2.84(1.18-3.53)		386	
* 30 13C4 PFOA										
417.10 > 172.00	4.239	4.261	-0.022		25409	2.50			1626	
D 31 13C8 PFOA										
421.10 > 376.00	4.239	4.261	-0.022	1.000	605344	2.51		100	37539	
* 35 18O2 PFHxS										
403.00 > 83.90	4.392	4.401	-0.009		469865	2.37			31854	
D 36 13C3 PFHxS										
402.10 > 79.90	4.392	4.411	-0.019	1.000	469621	2.10	Target=3.90	88.7	31254	
402.10 > 98.80	4.392	4.411	-0.019	1.000	120869		3.89(1.95-5.85)	88.7	8152	
34 PFHxS										
398.70 > 79.90	4.392	4.413	-0.021	1.000	236912	2.27	Target=3.39	99.2	801	
398.70 > 98.90	4.392	4.413	-0.021	1.000	67290		3.52(1.69-5.08)		270	
33 7:3 FTCA										
441.00 > 316.90	4.420	4.434	-0.014	1.179	1230163	56.3	Target=0.66	90.0	80086	
441.00 > 336.90	4.410	4.434	-0.024	1.176	1921777		0.64(0.33-1.00)		125943	
* 37 13C5 PFNA										
468.00 > 423.00	4.471	4.493	-0.022		159034	1.25			8165	
39 PFNA										
463.00 > 419.00	4.481	4.493	-0.012	1.000	260948	2.58	Target=5.25	103	533	
463.00 > 219.00	4.481	4.493	-0.012	1.000	54405		4.80(2.63-7.88)		188	
D 38 13C9 PFNA										
472.10 > 427.00	4.481	4.493	-0.012	1.002	150728	1.12		89.8	7691	
D 41 13C2-8:2FTS										
529.10 > 80.90	4.589	4.601	-0.012	1.045	16927	4.22	Target=0.14	87.9	1103	
529.10 > 509.00	4.589	4.601	-0.012	1.045	118840		0.14(0.07-0.21)	87.9	5993	
40 8:2FTS										
527.10 > 507.00	4.589	4.614	-0.025	1.000	224399	11.3	Target=1.21	118	11286	
527.10 > 80.80	4.589	4.614	-0.025	1.000	188462		1.19(0.60-1.81)		9740	
42 PFHpS										
449.00 > 79.90	4.659	4.685	-0.026	0.931	392840	2.45	Target=3.73	103	19481	
449.00 > 98.80	4.659	4.685	-0.026	0.931	108128		3.63(1.86-5.59)		5466	
D 44 d3-NMeFOSAA										
573.20 > 419.00	4.710	4.723	-0.013	0.941	285645	4.29		85.9	14141	
43 NMeFOSAA										
570.10 > 419.00	4.710	4.725	-0.015	1.000	131588	2.46	Target=1.77	98.1	799	
570.10 > 483.00	4.701	4.725	-0.024	0.998	78187		1.68(0.89-2.66)		331	
* 46 13C2 PFDA										
515.10 > 470.10	4.757	4.778	-0.021		205008	1.25			13802	
D 47 13C6 PFDA										
519.10 > 474.10	4.757	4.778	-0.021	1.000	190745	1.15		92.3	9846	
45 PFDA										
512.90 > 469.00	4.757	4.781	-0.024	1.000	304171	2.80	Target=6.01	112	12615	
512.90 > 219.00	4.757	4.781	-0.024	1.000	48383		6.29(3.00-9.01)		3336	
D 49 d5-NEtFOSAA										
589.20 > 419.00	4.854	4.874	-0.020	0.970	247751	4.00		80.1	12519	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
48 NEtFOSAA										
584.20 > 419.10	4.863	4.886	-0.023	1.002	94812	2.56	Target=1.68	102	602	
584.20 > 526.00	4.863	4.886	-0.023	1.002	60950		1.56(0.84-2.53)		246	
* 52 13C4 PFOS										
502.80 > 79.90	5.003	5.033	-0.030		320311	2.40	Target=4.18		16425	
502.80 > 98.90	4.994	5.033	-0.039		83043		3.86(2.09-6.27)		5666	
D 51 13C8 PFOS										
507.10 > 79.90	5.003	5.033	-0.030	1.000	379955	1.99	Target=3.96	83.3	9747	
507.10 > 98.90	4.994	5.033	-0.039	0.998	97480		3.90(1.98-5.94)	83.3	6571	
50 PFOS										
498.90 > 79.90	5.003	5.044	-0.041	1.000	388687	2.66	Target=4.55	114	1463	
498.90 > 98.80	5.003	5.044	-0.041	1.000	84689		4.59(2.28-6.83)		194	
D 54 13C7 PFUnA										
570.00 > 525.10	5.132	5.170	-0.038	1.079	181599	1.19		95.5	11979	
53 PFUnA										
563.10 > 519.00	5.132	5.180	-0.048	1.000	318530	2.48	Target=11.29	99.0	13008	
563.10 > 269.10	5.132	5.180	-0.048	1.000	31706		10.05(5.64-16.93)		2215	
55 9ClFOS										
530.80 > 351.00	5.353	5.404	-0.051	1.384	2015923	10.1	Target=3.20	108	132141	
532.80 > 353.00	5.345	5.404	-0.059	1.382	611548		3.30(1.60-4.81)		40733	
56 PFNS										
548.80 > 79.90	5.464	5.506	-0.042	1.092	291497	2.71	Target=4.70	113	15515	
548.80 > 98.80	5.457	5.506	-0.049	1.091	67770		4.30(2.35-7.05)		4774	
D 58 PFDoDA										
615.10 > 570.00	5.616	5.646	-0.030	1.181	158608	1.18		94.0	11586	
57 PFDoA										
613.10 > 569.00	5.616	5.654	-0.038	1.000	284825	2.38	Target=16.23	95.0	7763	
613.10 > 319.00	5.608	5.654	-0.046	0.999	20636		13.80(8.12-24.35)		1623	
60 PFOSA										
498.10 > 77.90	5.912	5.915	-0.003	1.000	655894	2.48	Target=58.34	99.2	7474	
498.10 > 478.00	5.904	5.915	-0.011	0.999	10571		62.05(29.17-87.51)		75.8	
D 59 13C8 FOSA										
506.10 > 77.80	5.912	5.923	-0.011	1.182	639987	2.29		91.7	44321	
61 PFDS										
599.00 > 79.90	5.920	5.965	-0.045	1.183	434057	2.57	Target=4.36	106	30741	
599.00 > 98.80	5.920	5.965	-0.045	1.183	94071		4.61(2.18-6.54)		5244	
62 PFTrDA										
663.00 > 619.00	6.057	6.099	-0.042	0.937	238644	2.46	Target=3.59	98.1	17193	
663.00 > 168.90	6.057	6.099	-0.042	0.937	59419		4.02(1.79-5.38)		4576	
63 11ClFOS										
630.90 > 450.90	6.241	6.288	-0.047	1.614	2442760	9.12	Target=5.30	96.5	153928	
632.90 > 452.90	6.241	6.288	-0.047	1.614	464820		5.26(2.65-7.95)		29688	
D 65 13C2 PFTeDA										
715.20 > 670.00	6.462	6.485	-0.023	1.359	84129	1.11		88.6	5323	
64 PFTeDA										
713.10 > 669.00	6.452	6.498	-0.046	0.998	191141	2.48	Target=3.31	99.2	12024	
713.10 > 168.90	6.452	6.498	-0.046	0.998	56295		3.40(1.66-4.97)		3881	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 67 d7-N-Me-FOSE										
623.20 > 58.90	6.685	6.692	-0.007	1.336	828997	18.1		72.2	34198	
68 N-MeFOSE-M										
616.10 > 58.90	6.708	6.704	0.004	1.004	975850	26.5		106	7056	
66 PFDoS										
699.10 > 79.90	6.685	6.729	-0.044	1.336	411625	2.33	Target=4.96	96.1	22894	
699.10 > 98.80	6.672	6.729	-0.057	1.333	76507		5.38(2.48-7.44)		4531	
D 69 d3-NMePFOSA										
515.00 > 219.00	6.815	6.823	-0.008	1.362	66787	1.22		48.8	3836	
70 NMeFOSA										
511.90 > 219.00	6.827	6.823	0.004	1.002	63439	2.99	Target=0.78	119	986	
511.90 > 169.00	6.815	6.823	-0.008	1.000	83474		0.76(0.39-1.17)		906	
D 71 d9-N-EtFOSE										
639.20 > 58.90	6.962	6.957	0.005	1.391	1023690	18.2		72.6	30994	
72 N-EtFOSE-M										
630.00 > 58.90	6.982	6.978	0.004	1.003	965073	25.1		100	13826	
D 73 d5-NEtPFOSA										
531.10 > 219.00	7.074	7.080	-0.006	1.414	77584	1.32		52.8	4932	
74 N-EtFOSA-M										
526.00 > 219.00	7.084	7.090	-0.006	1.001	83369	2.79	Target=3.00	111	1032	
526.00 > 169.00	7.084	7.090	-0.006	1.001	27513		3.03(1.50-4.50)		390	

QC Flag Legend

Processing Flags

Reagents:

PFC_ST_02214 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 09-Aug-2023 09:52:47 Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-57.d

Injection Date: 08-Aug-2023 22:45:14 Instrument ID: 30729

Lims ID: 460-282979-A-1-B MS

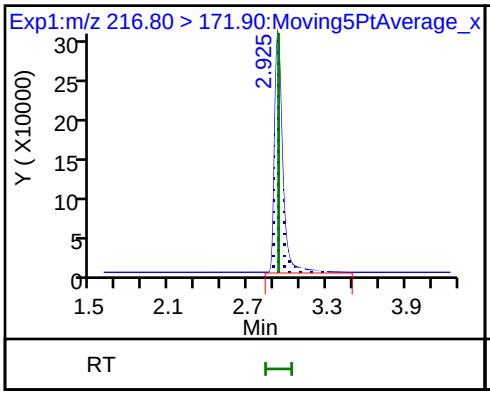
Client ID: AD38758-001

Operator ID: US19_USR_INS20263 ALS Bottle#: 42 Worklist Smp#: 52

Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: PFAS_30729_1633 Limit Group: LC - 1633 ICAL

D 2 13C4-PFBA



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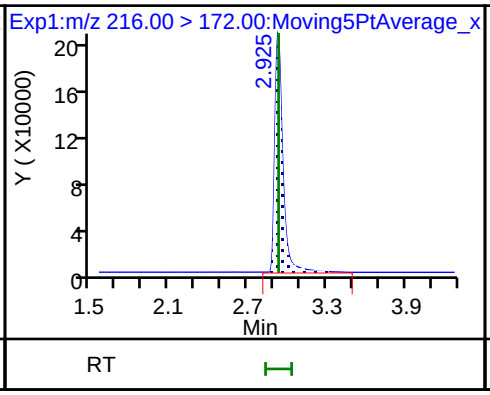

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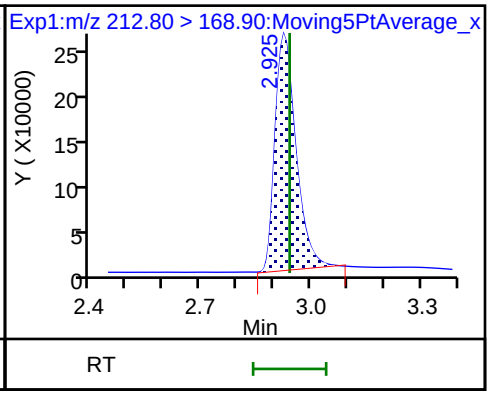
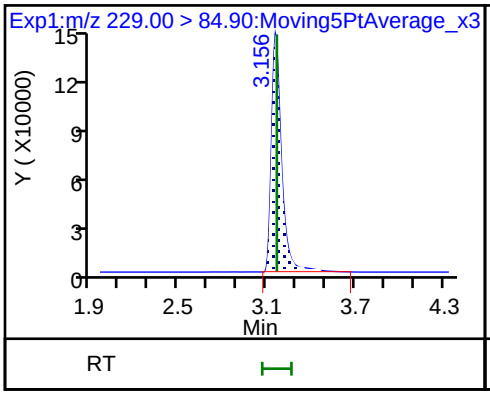


4 PFMPA



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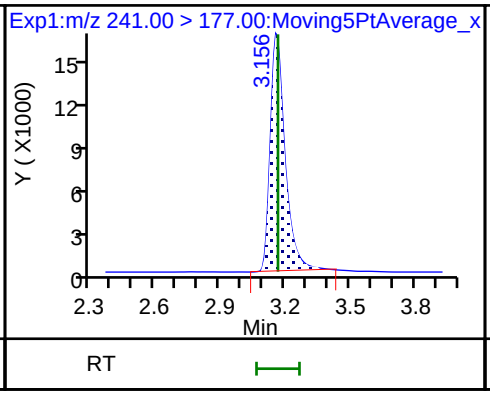

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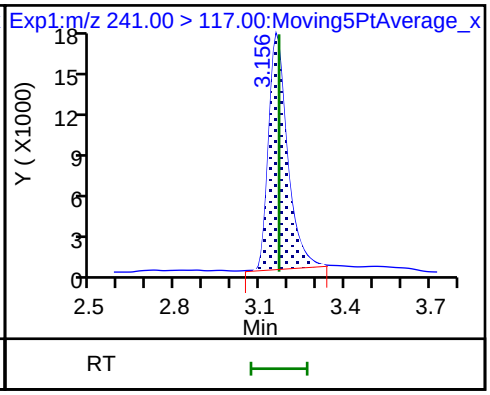

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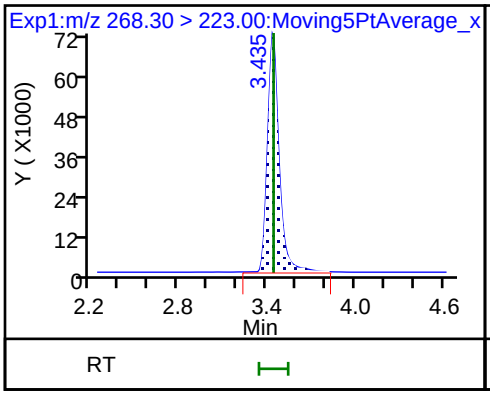
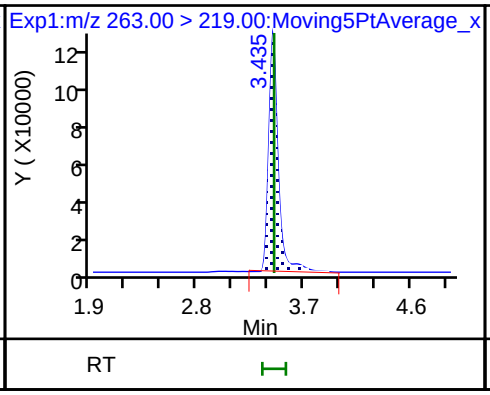


6 PFPA



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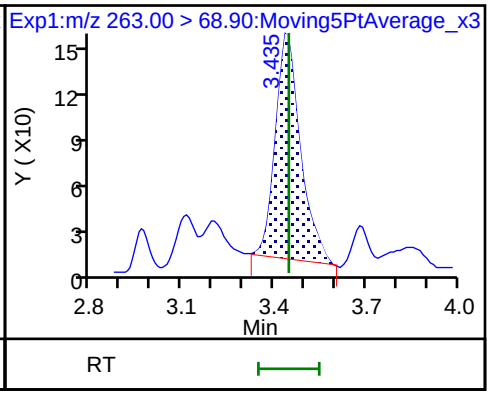
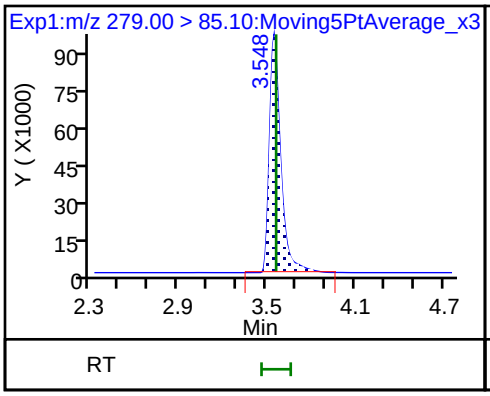
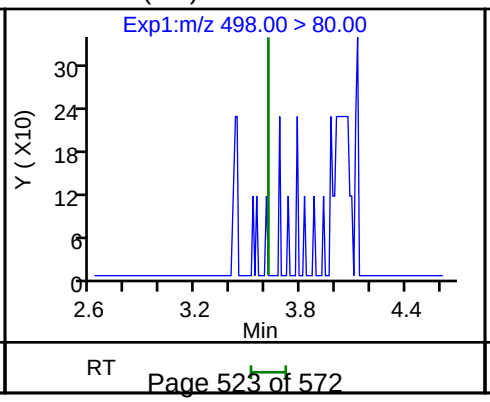


8 PFMBA



11 TDCA (ND)



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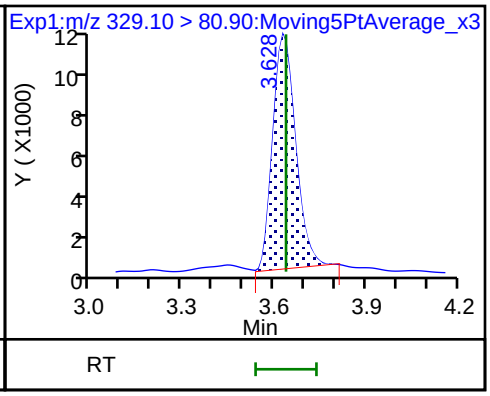

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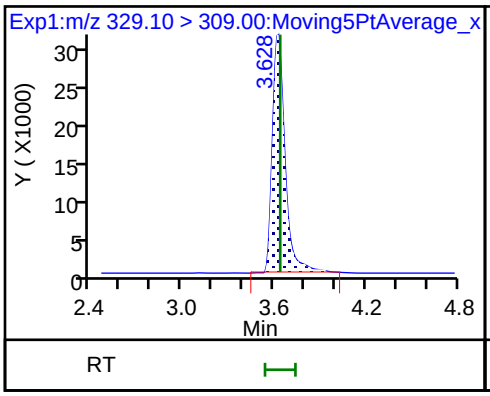

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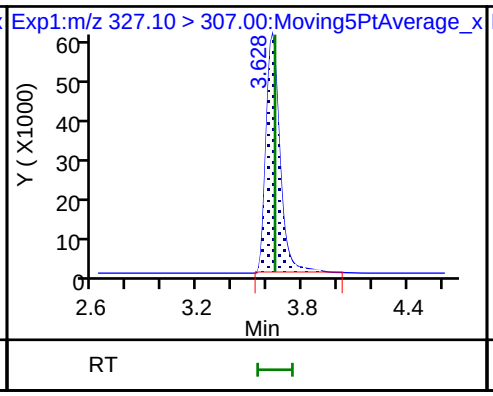

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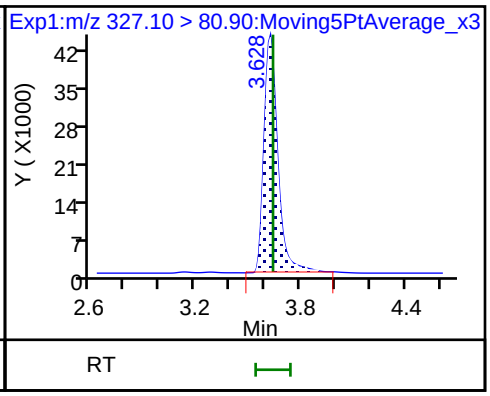

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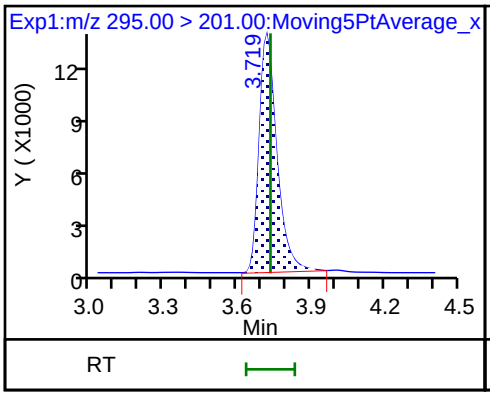
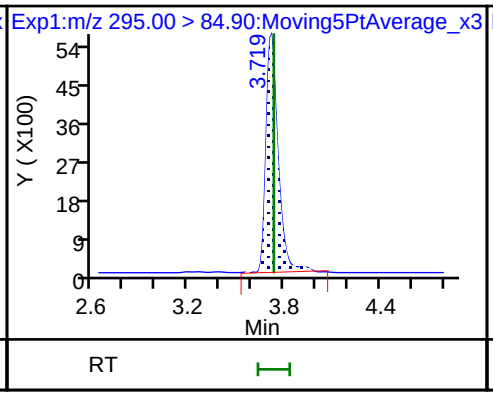


12 NFDHA



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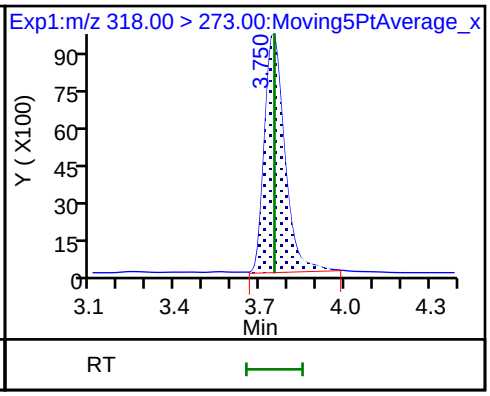

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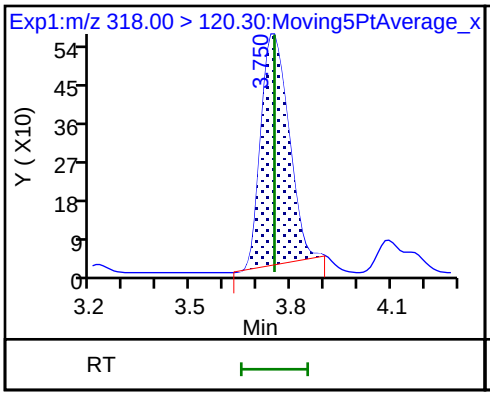

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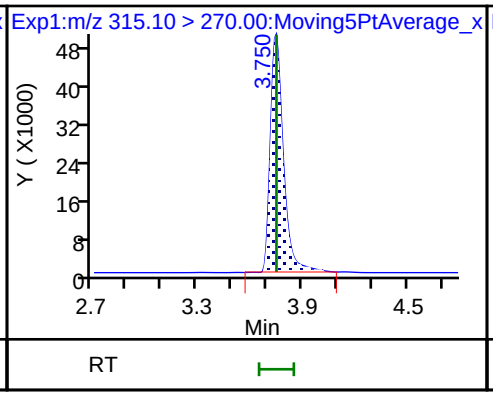

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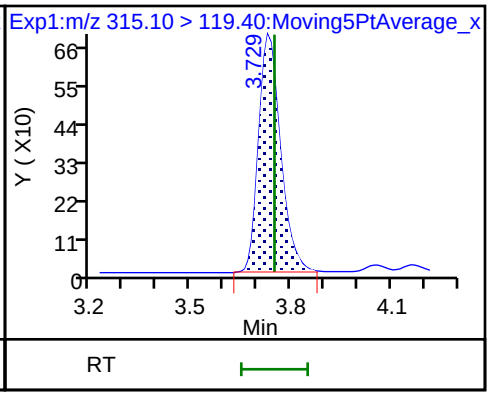
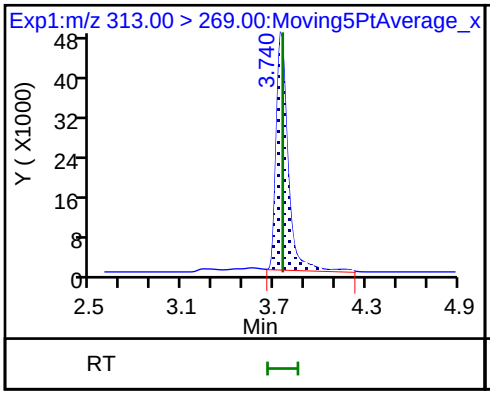


13 PFHxA



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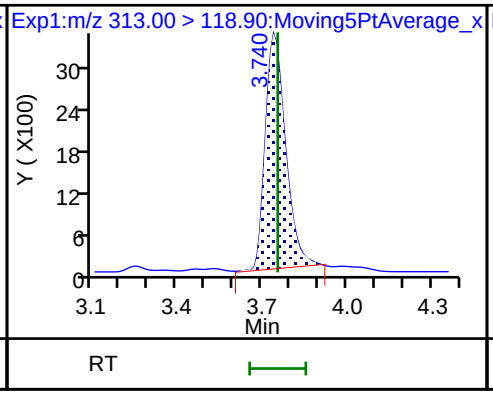
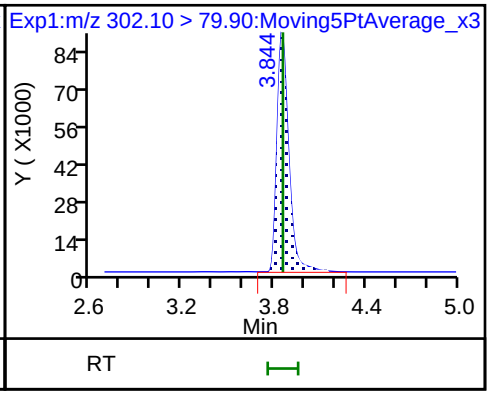


D 18 13C3 PFBS



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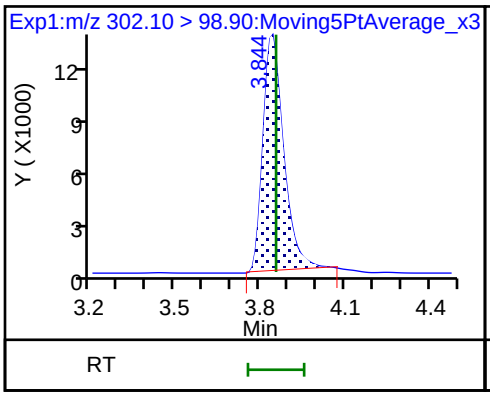
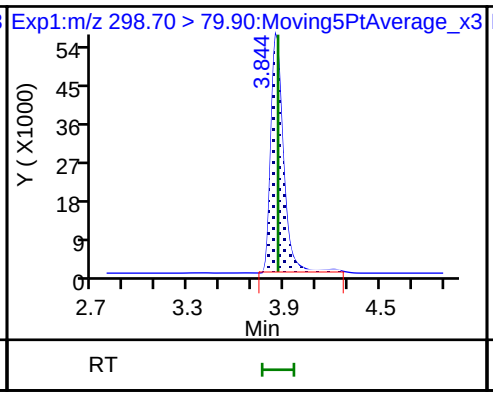
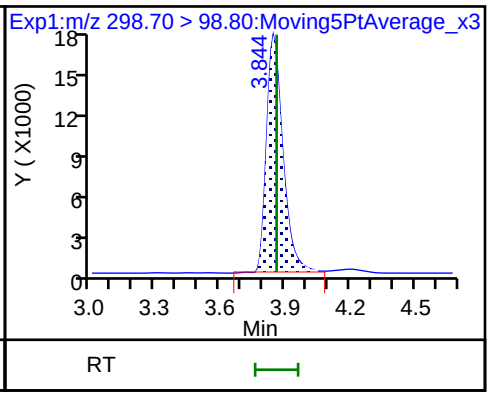


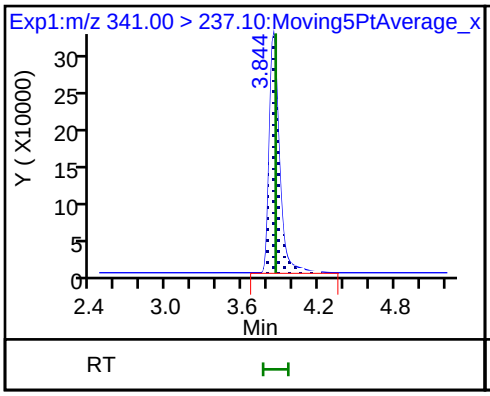
17 PFBS



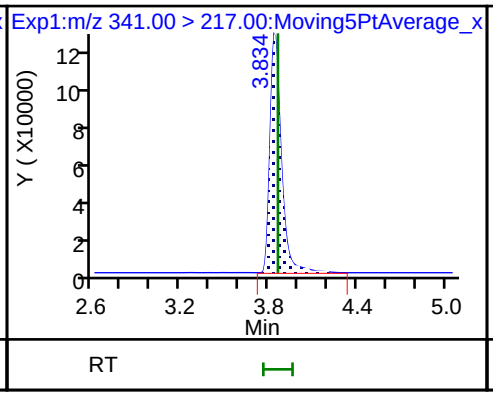
17 PFBS



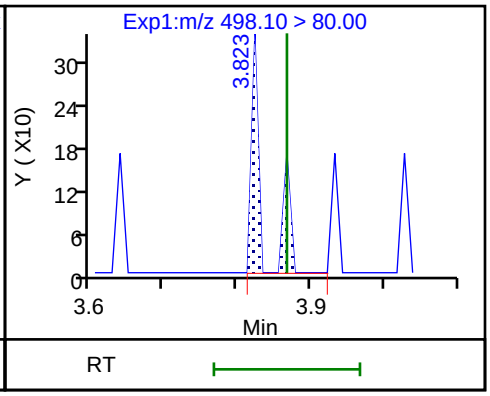
16 5:3 FTCA



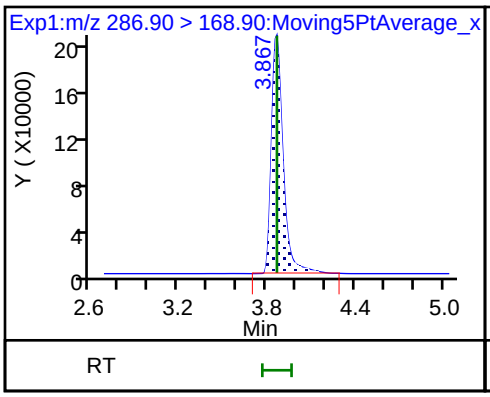
16 5:3 FTCA



21 TCDCA



D 20 13C3 HFPO-DA



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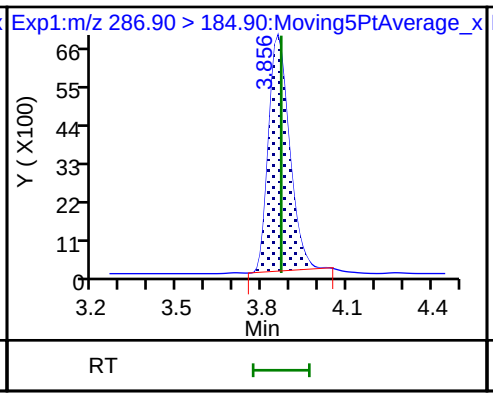
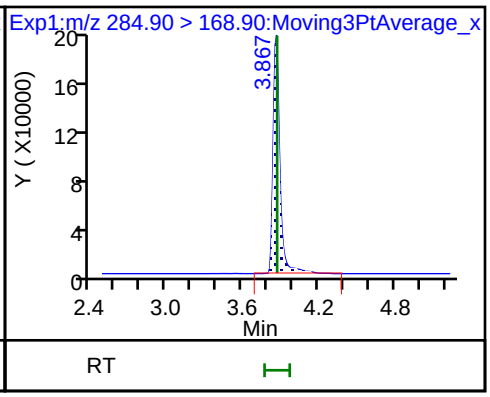


19 HFPO-DA



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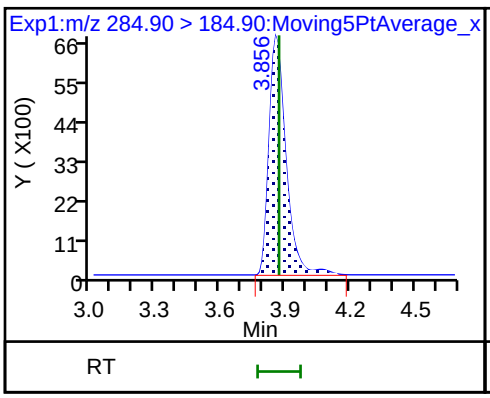
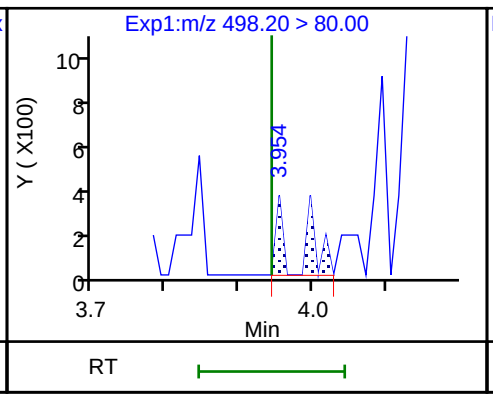
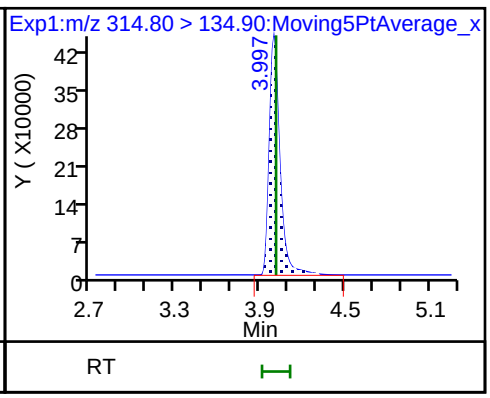


22 TUDCA



23 PFEESA



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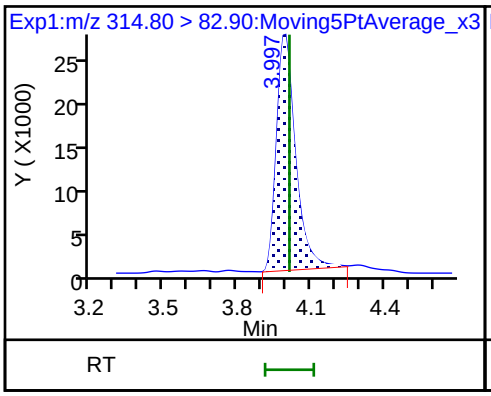
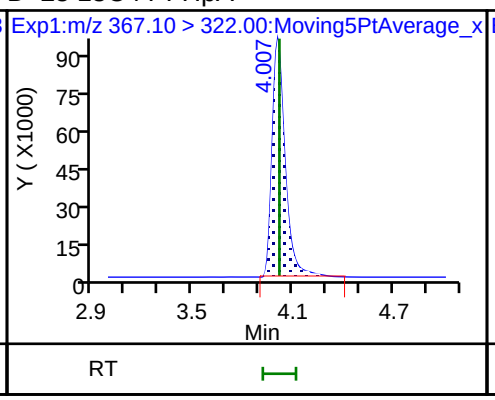


D 25 13C4 PFHpA



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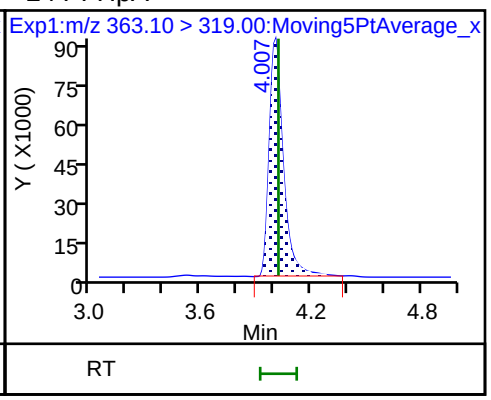

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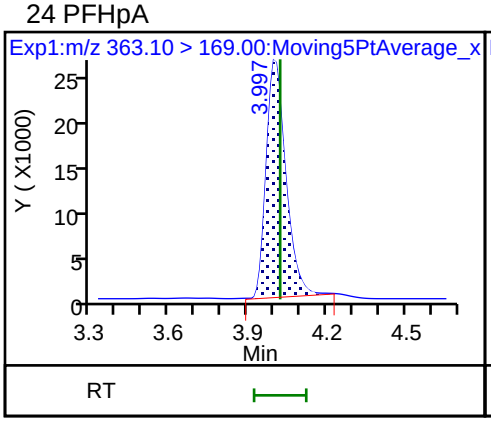
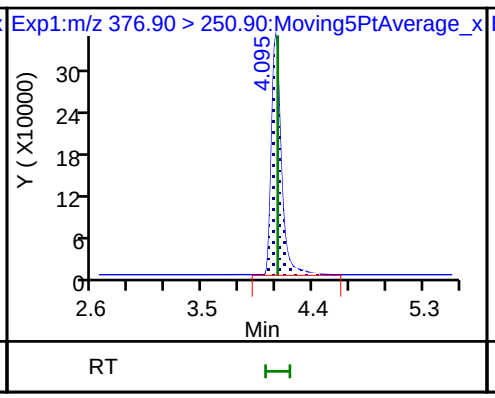


26 ADONA



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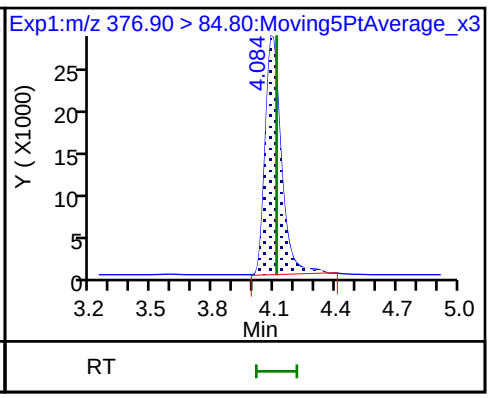
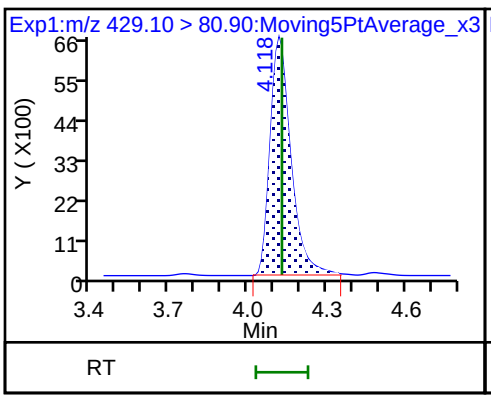


D 29 13C2-6:2FTS



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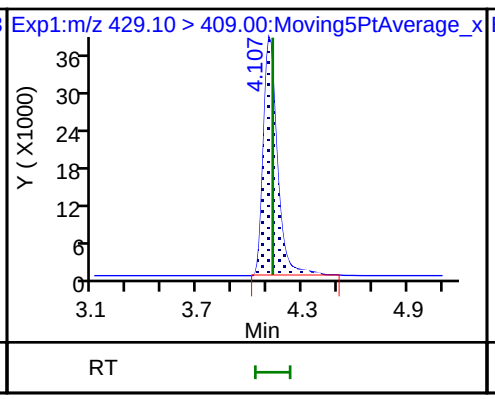
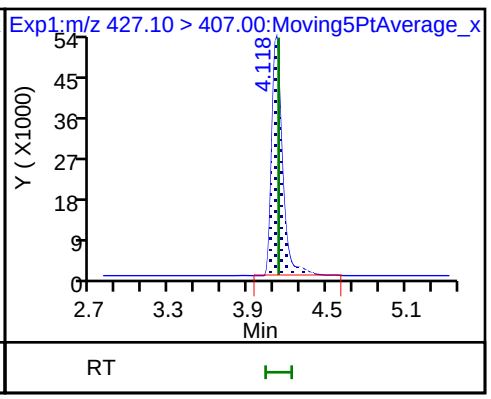
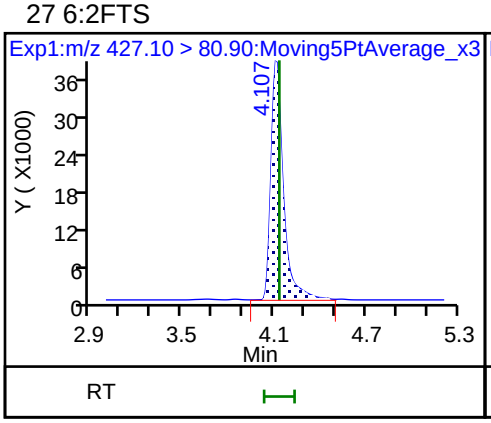


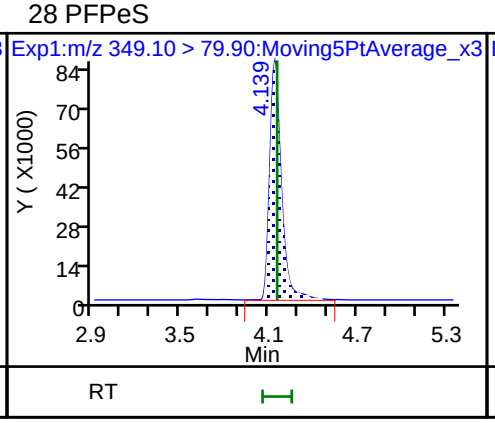
27 6:2FTS



27 6:2FTS



28 PFPeS



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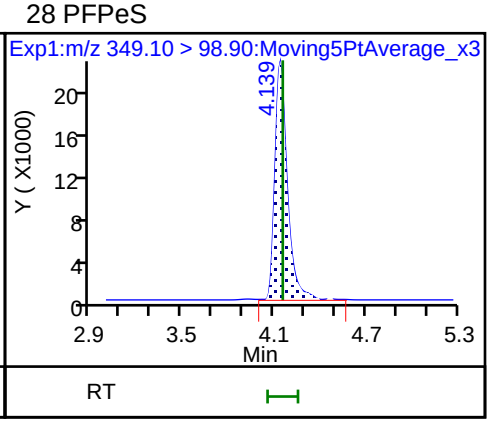
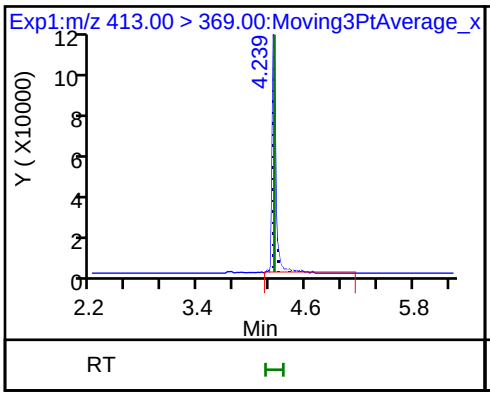


32 PFOA



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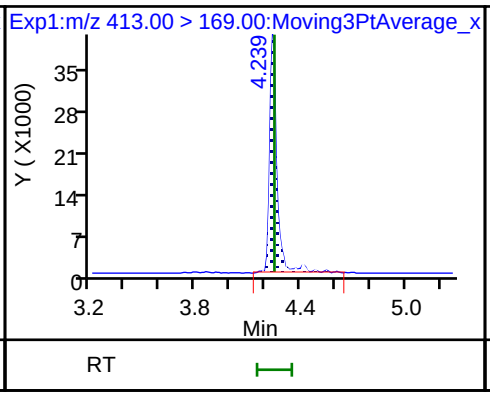

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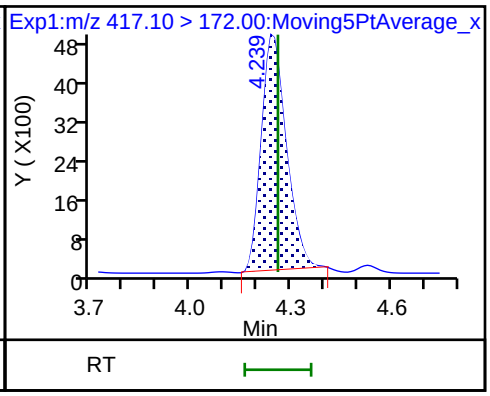

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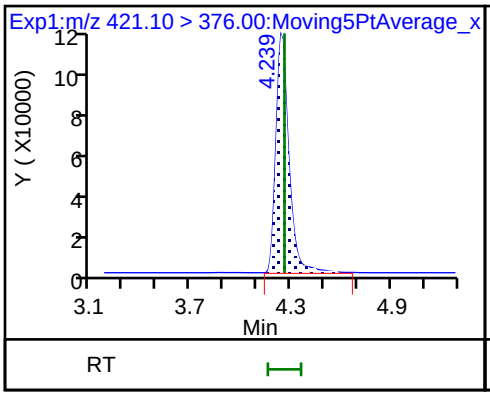

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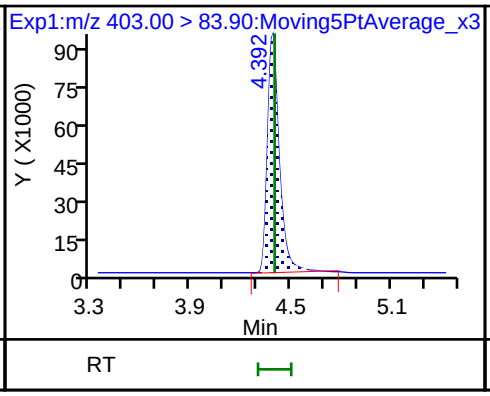

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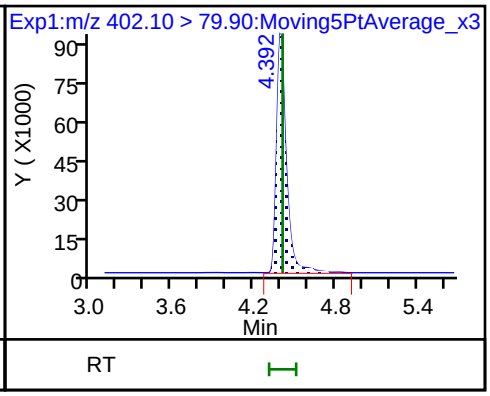

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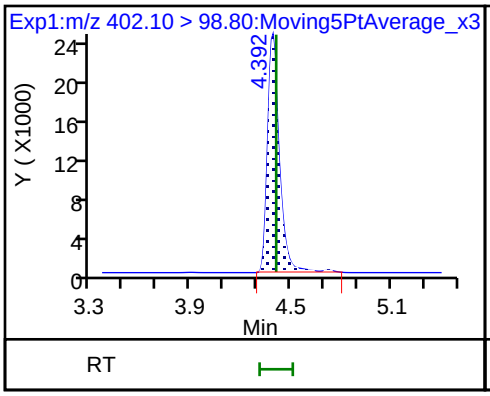

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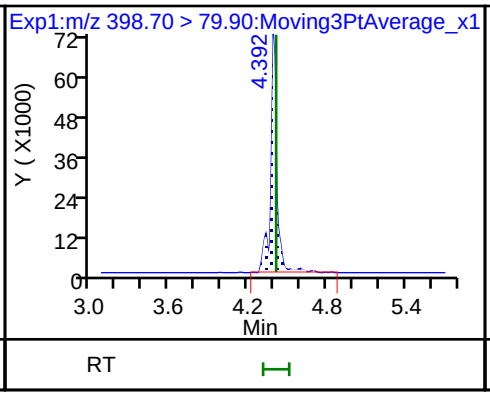

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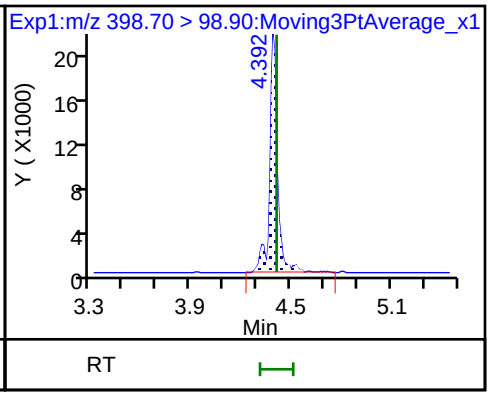
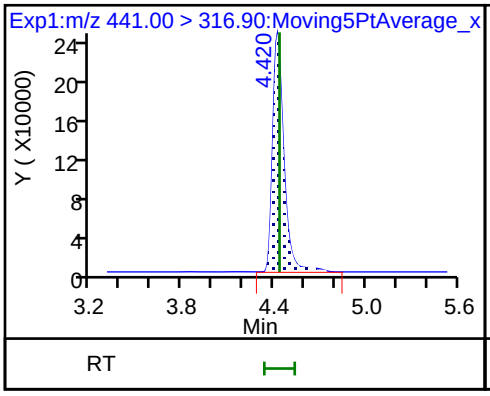


33 7:3 FTCA



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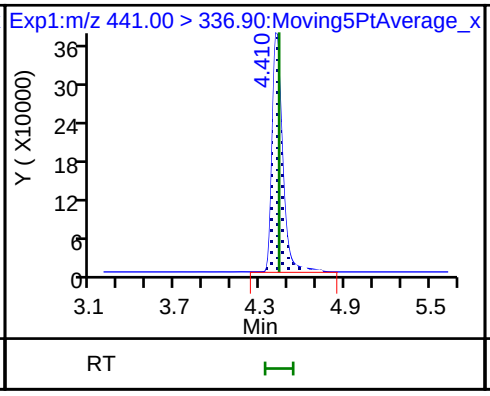
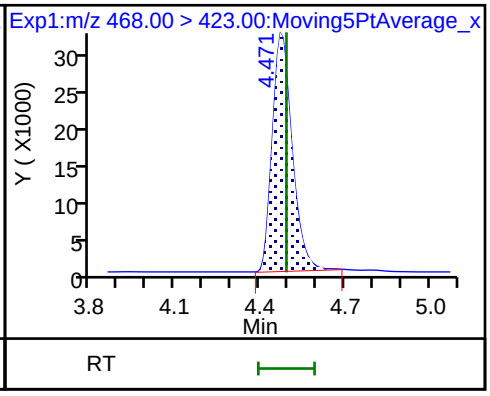


* 37 13C5 PFNA



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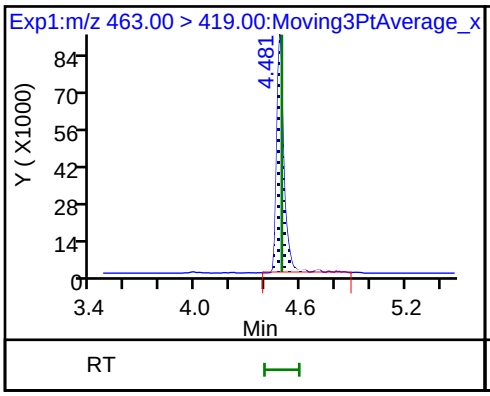

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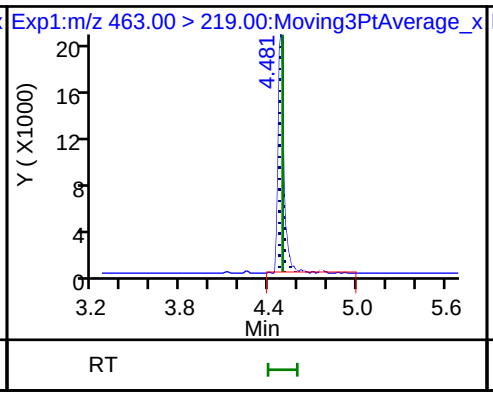

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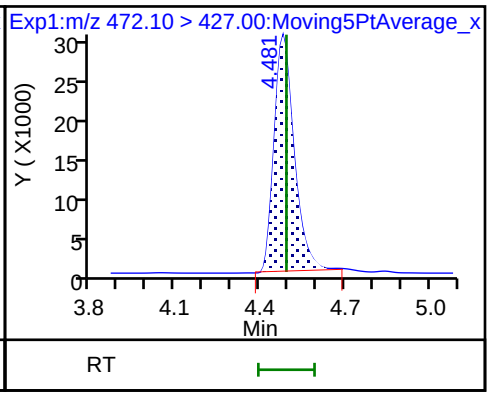

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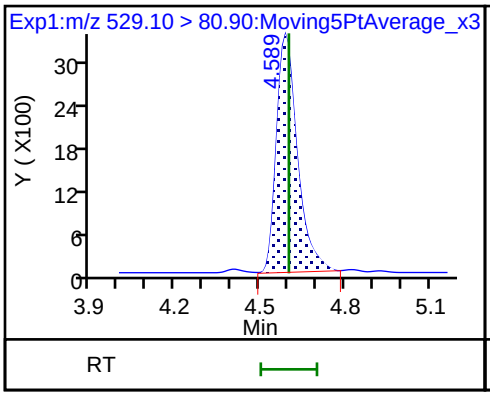

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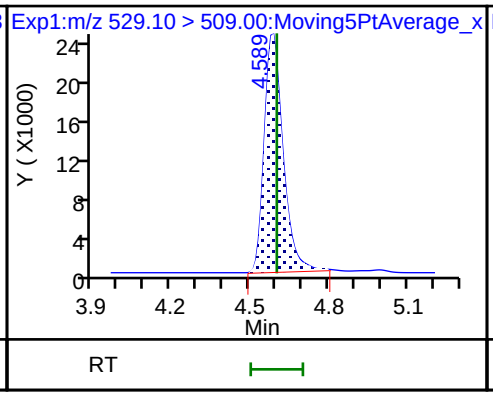

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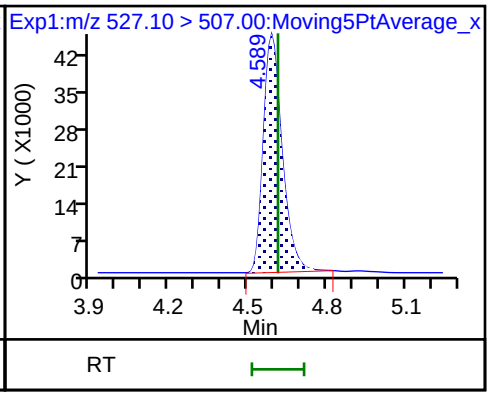

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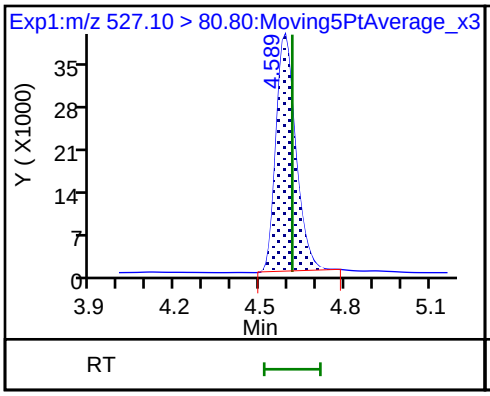
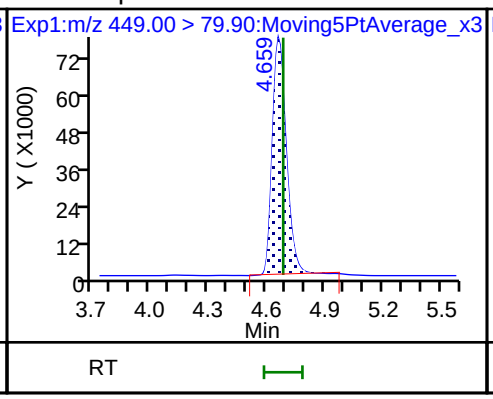


42 PFHpS



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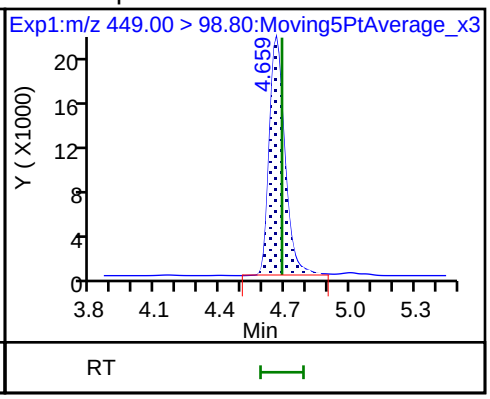
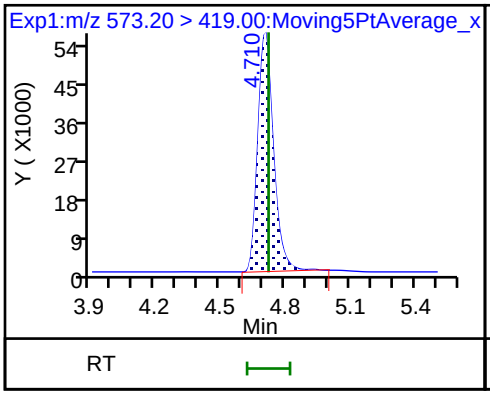


D 44 d3-NMeFOSAA



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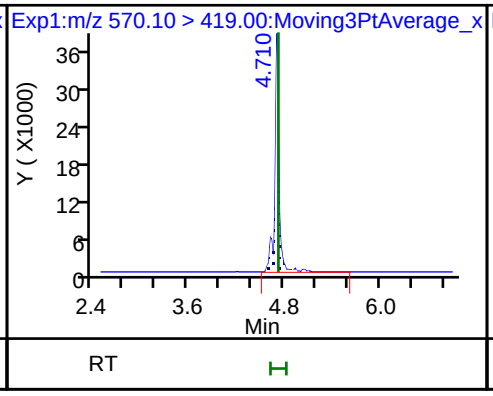

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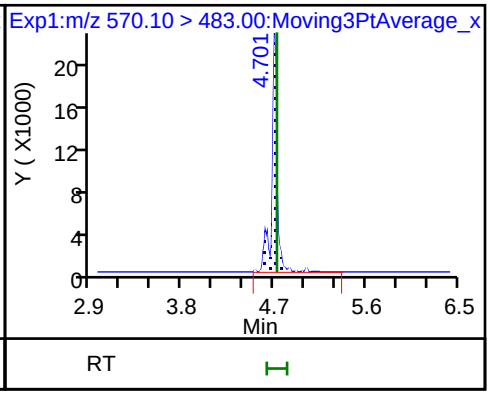

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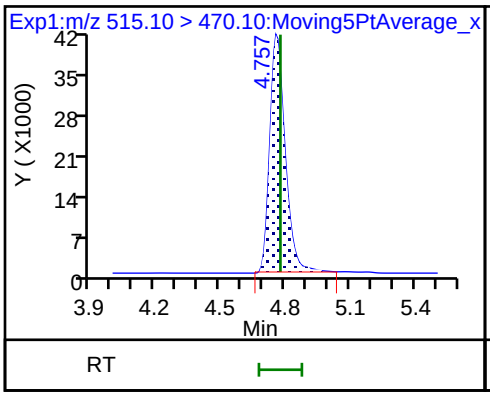

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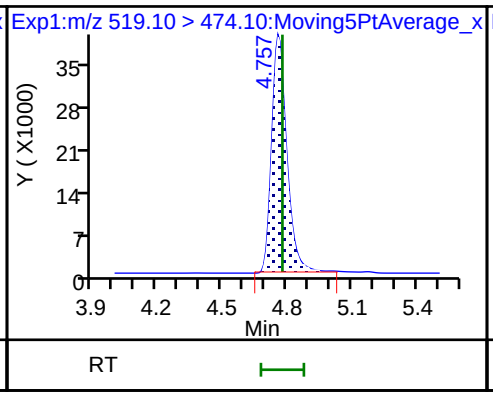
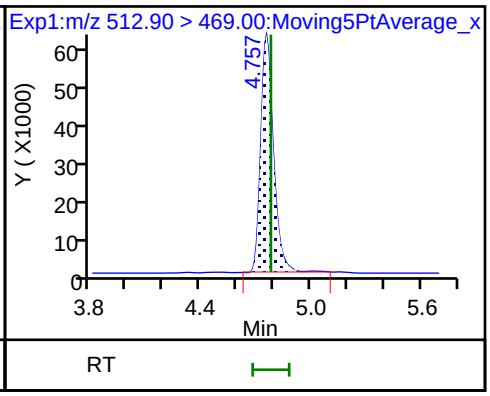


45 PFDA



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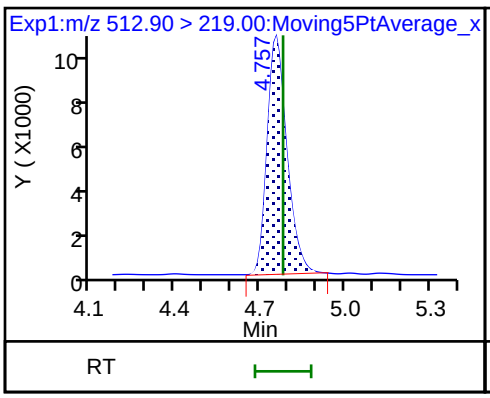

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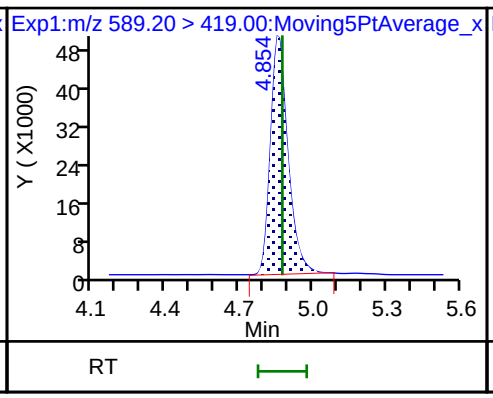

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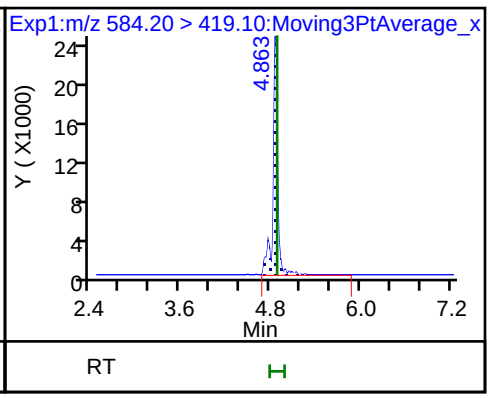

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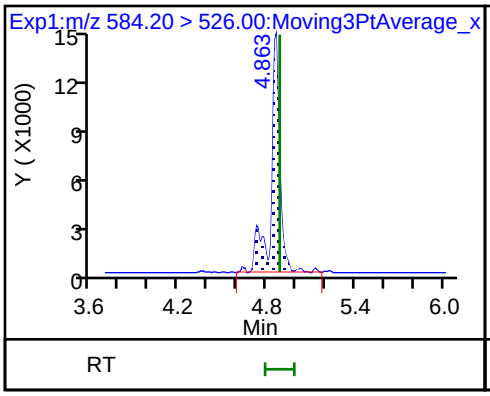

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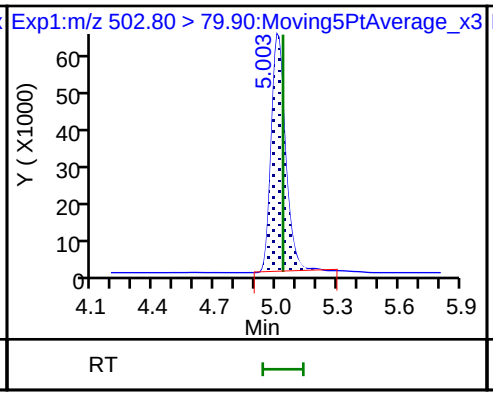

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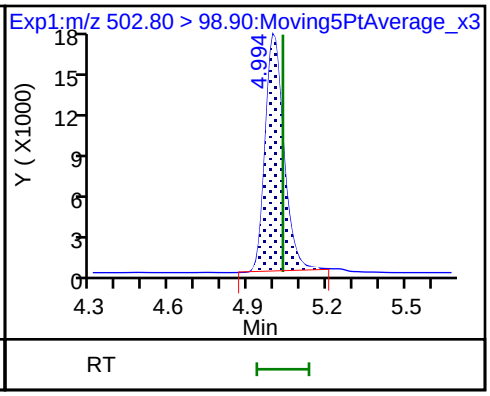

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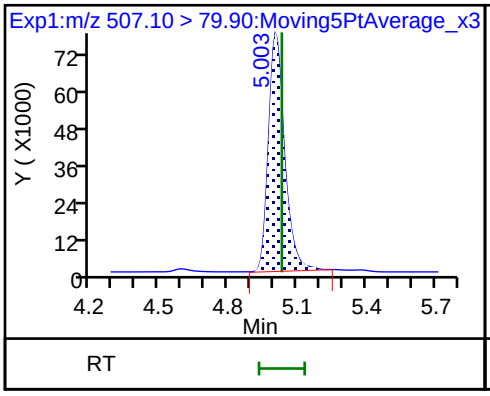

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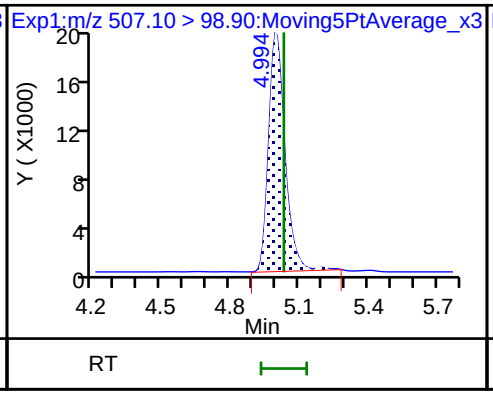

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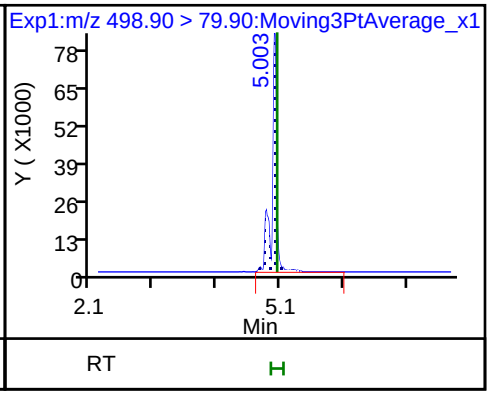

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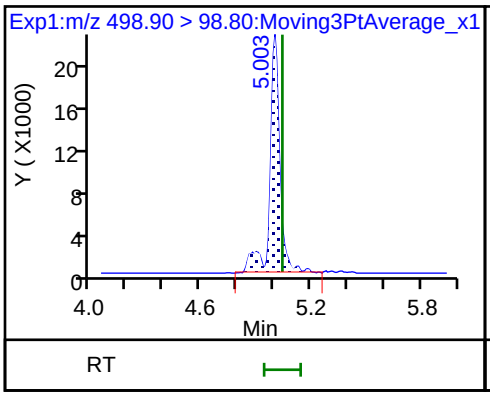

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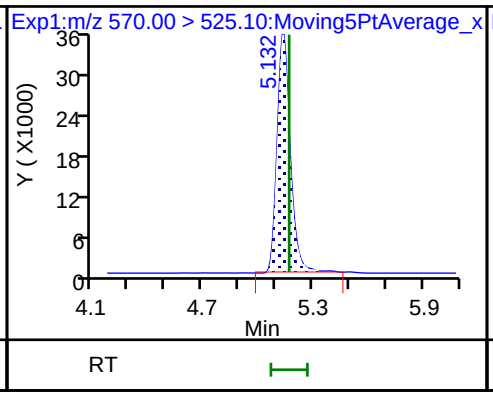

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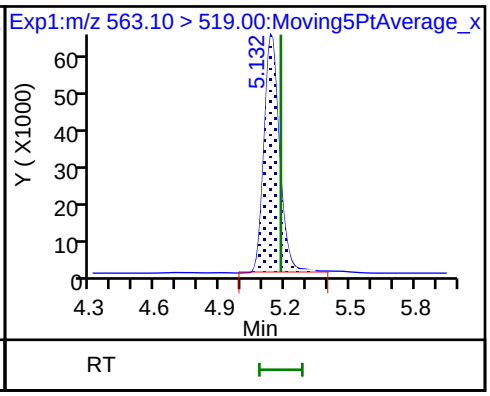

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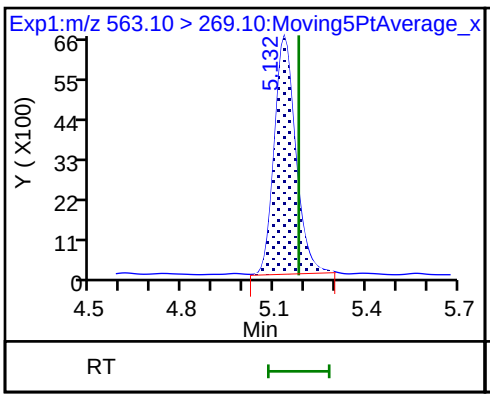

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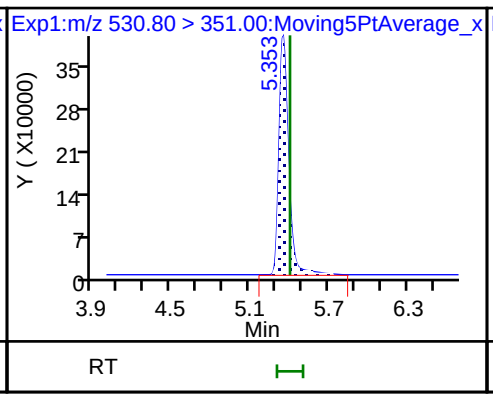

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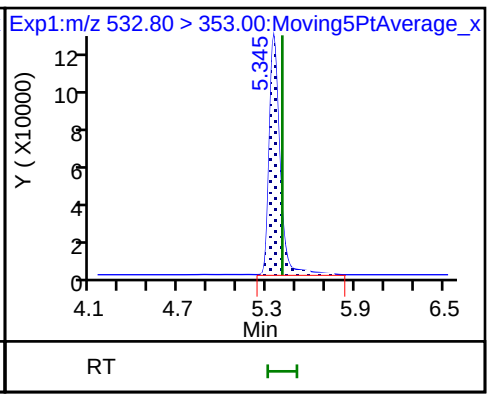

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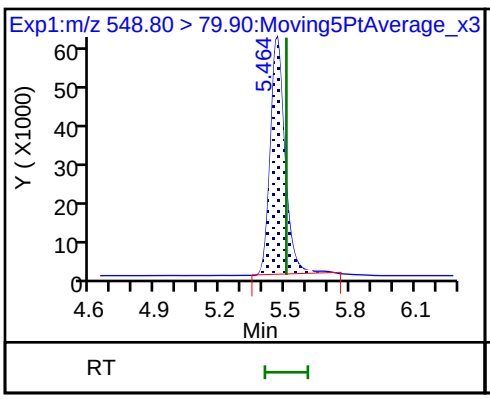

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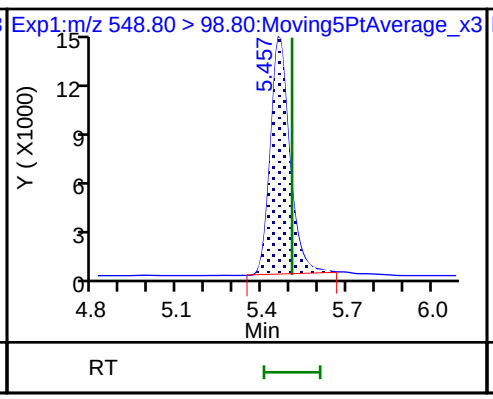

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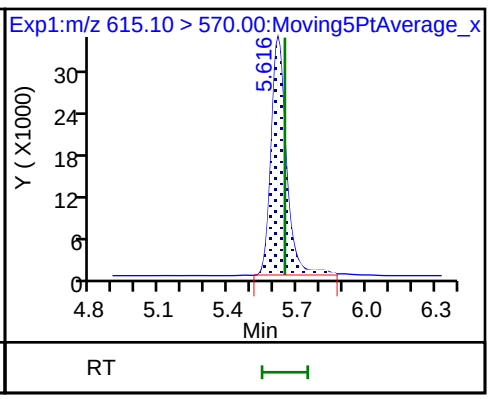

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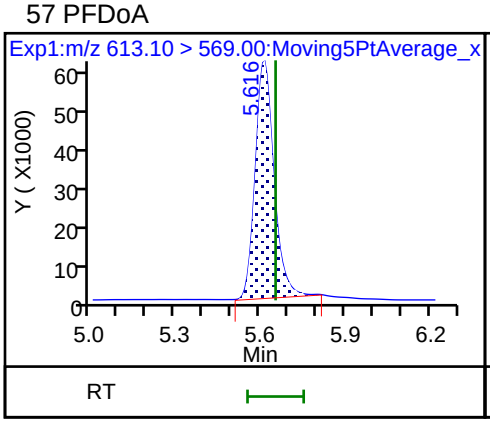

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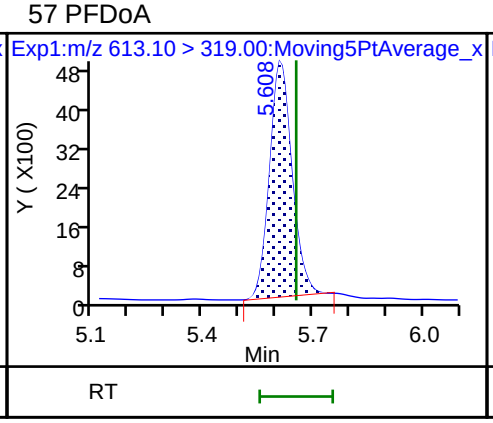

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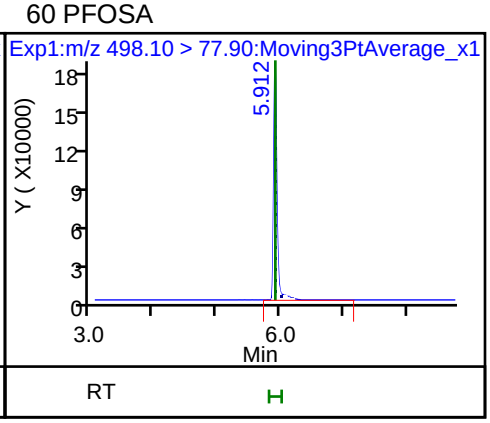

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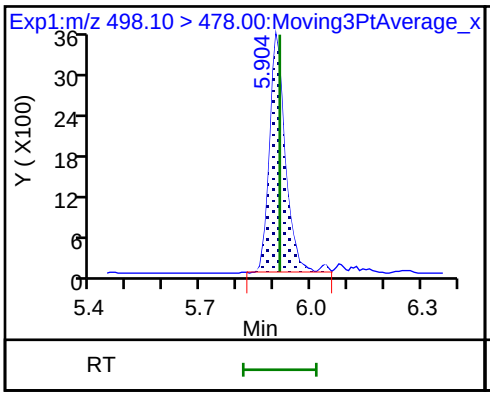

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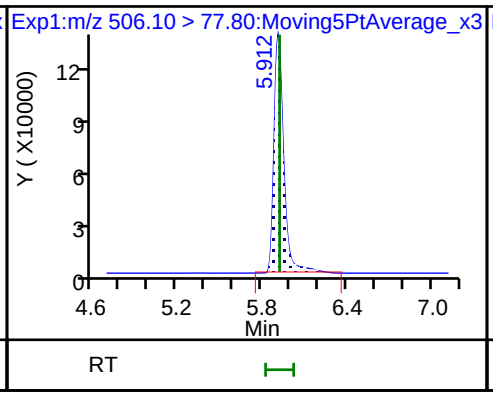

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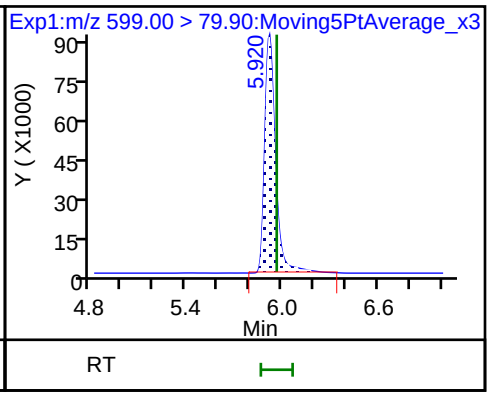

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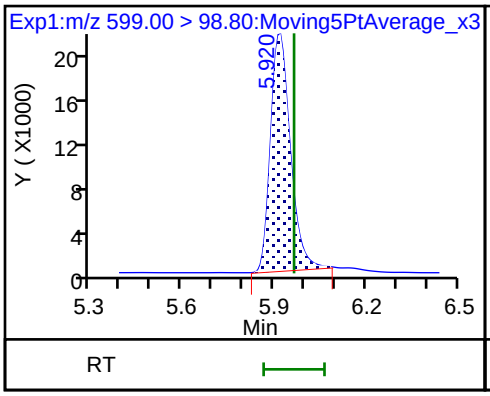

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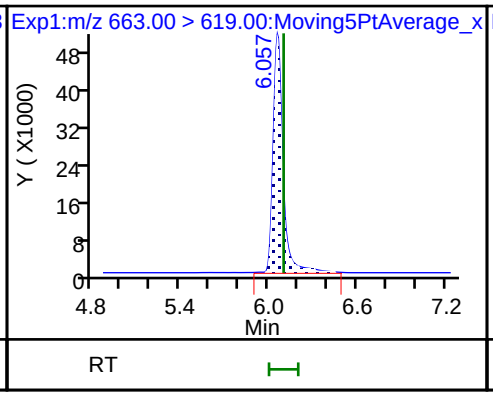

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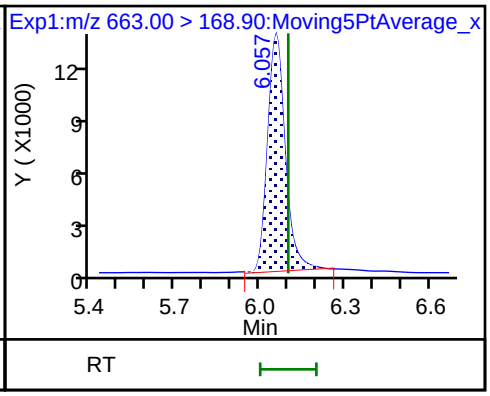

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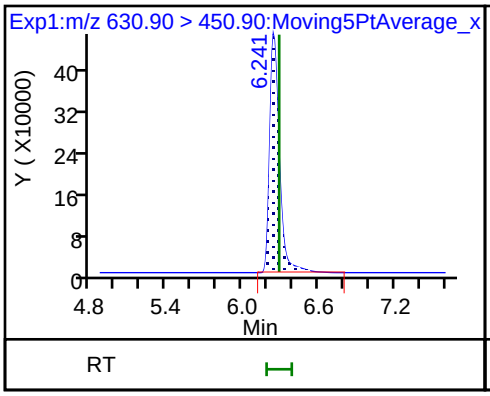

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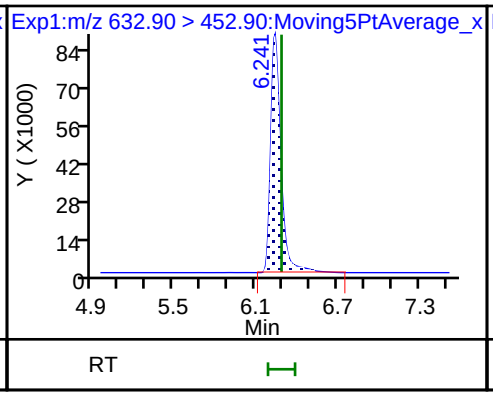

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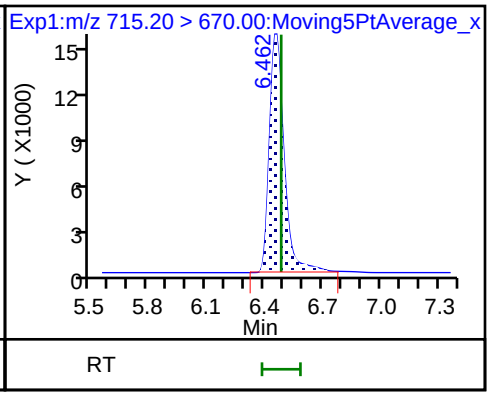

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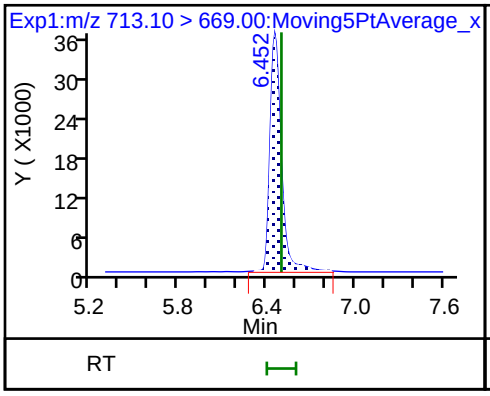

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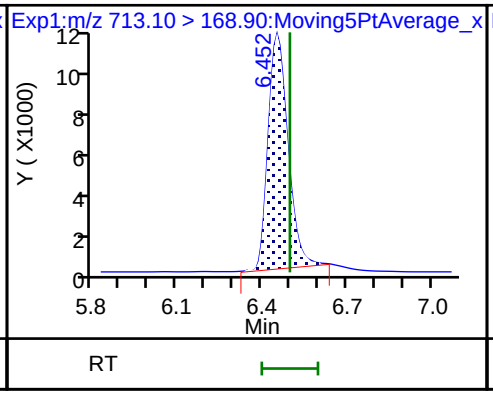
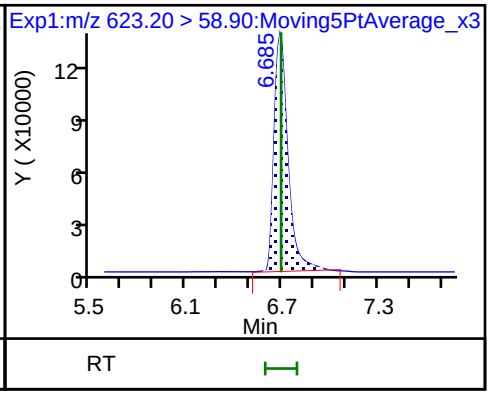


D 67 d7-N-Me-FOSE



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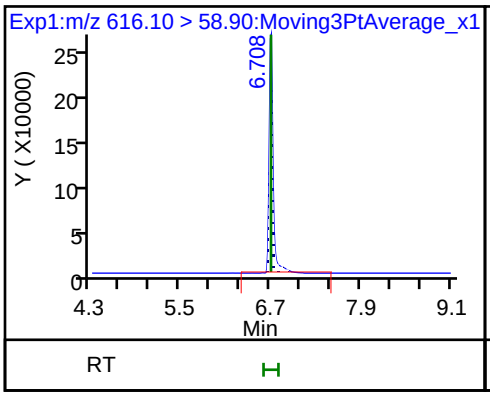

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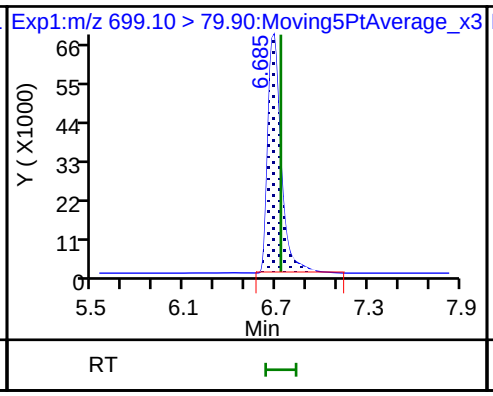

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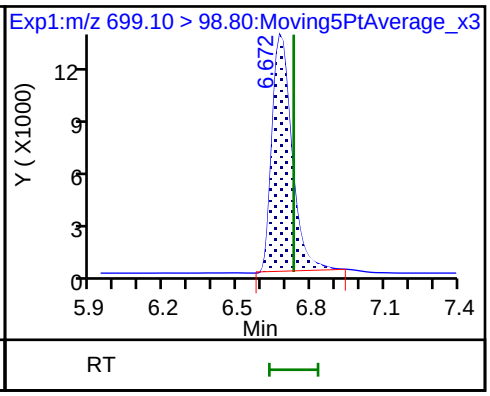

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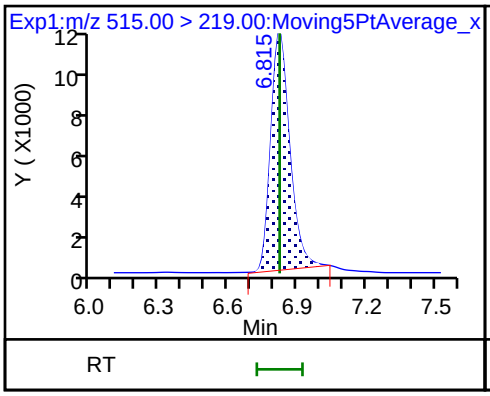

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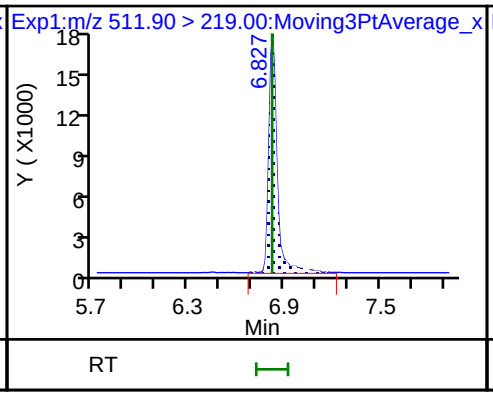

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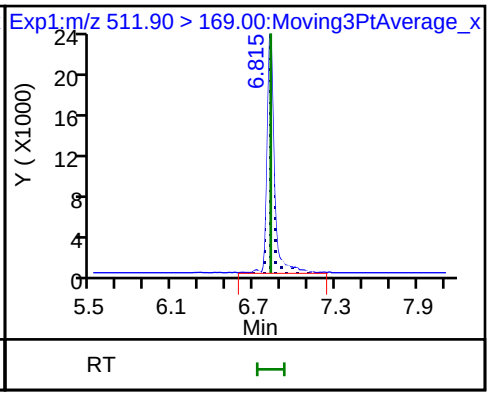

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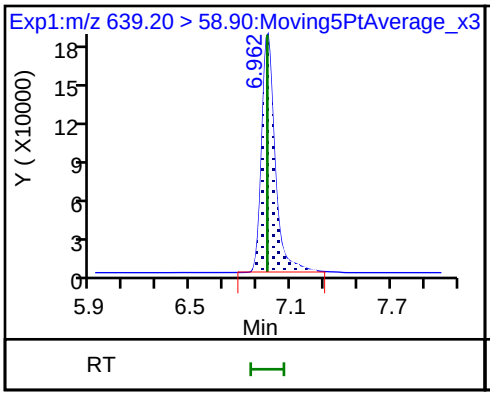

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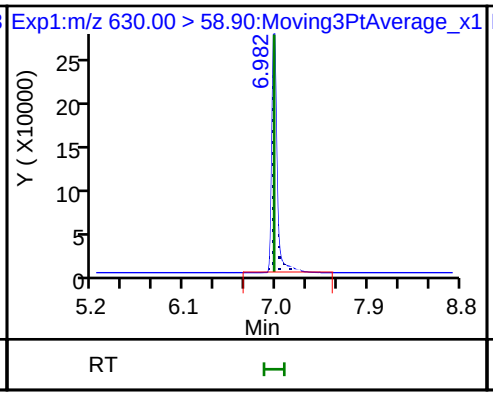

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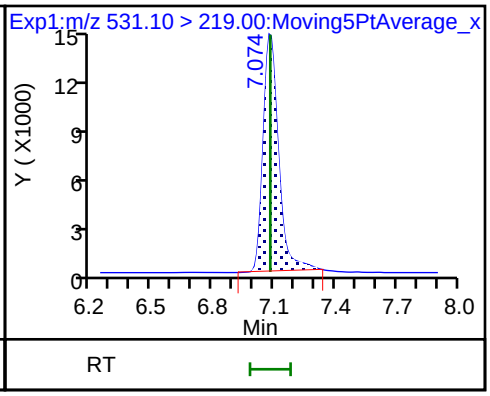

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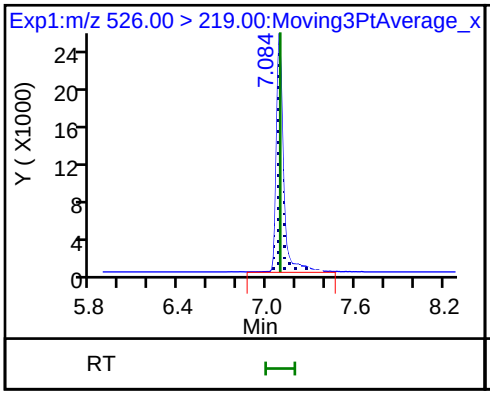

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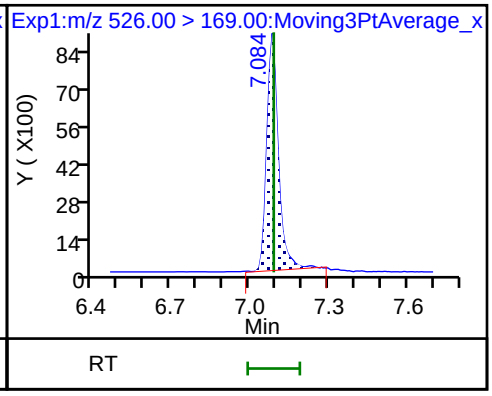


FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: AD38758-001 MSD Lab Sample ID: 460-282979-1 MSD

Matrix: Water Lab File ID: 23AUG08-58.d

Analysis Method: 1633 Date Collected: 06/22/2023 13:22

Extraction Method: 1633 Date Extracted: 07/17/2023 07:22

Sample wt/vol: 272.6(mL) Date Analyzed: 08/08/2023 22:58

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	176.8		14.7	1.83
355-46-4	Perfluorohexanesulfonic acid	42.27		3.67	1.05
2058-94-8	Perfluoroundecanoic acid	44.64		3.67	0.92
335-67-1	Perfluorooctanoic acid	53.83		3.67	1.17
335-77-3	Perfluorodecanesulfonic acid	43.30		3.67	0.92
376-06-7	Perfluorotetradecanoic acid	45.56		3.67	0.92
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	157.4		14.7	2.75
31506-32-8	NMeFOSA	50.81		3.67	0.92
812-70-4	7:3 FTCA	1002		91.7	18.3
335-76-2	Perfluorodecanoic acid	46.90		3.67	0.92
72629-94-8	Perfluorotridecanoic acid	45.97		3.67	0.92
113507-82-7	PFEESA	77.31		7.34	0.92
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	52.18		3.67	0.92
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	151.8		14.7	3.12
375-95-1	Perfluorononanoic acid	41.08		3.67	0.92
13252-13-6	HFPO-DA	177.3		14.7	3.67
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	473.7		36.7	9.17
2706-91-4	Perfluoropentanesulfonic acid	45.32		3.67	0.92
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	169.9		14.7	4.59
68259-12-1	Perfluorononanesulfonic acid	47.68		3.67	0.73
375-85-9	Perfluoroheptanoic acid	43.16		3.67	0.95
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	164.1		14.7	3.67
1763-23-1	Perfluorooctanesulfonic acid	45.29		3.67	0.92
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	168.1		14.7	4.77
377-73-1	Perfluoro-3-methoxypropanoic acid	87.34		7.34	0.92
375-22-4	Perfluorobutanoic acid	185.1		14.7	3.67
2991-50-6	NEtFOSAA	44.21		3.67	1.28

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: AD38758-001 MSD Lab Sample ID: 460-282979-1 MSD

Matrix: Water Lab File ID: 23AUG08-58.d

Analysis Method: 1633 Date Collected: 06/22/2023 13:22

Extraction Method: 1633 Date Extracted: 07/17/2023 07:22

Sample wt/vol: 272.6(mL) Date Analyzed: 08/08/2023 22:58

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-55-1	Perfluorododecanoic acid	47.68		3.67	0.92
307-24-4	Perfluorohexanoic acid	44.26		3.67	0.92
863090-89-5	Perfluoro(4-methoxybutanoic acid)	87.80		7.34	1.83
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	89.46		7.34	1.83
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	39.39		3.67	1.65
2706-90-3	Perfluoropentanoic acid	88.64		7.34	1.83
914637-49-3	5:3 FTCA	1069		91.7	18.3
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	468.0		36.7	9.17
754-91-6	Perfluorooctanesulfonamide	47.81		3.67	0.92
356-02-5	3:3 FTCA	205.5		18.3	2.75
2355-31-9	NMeFOSAA	44.39		7.34	2.20
375-73-5	Perfluorobutanesulfonic acid	38.94		3.67	0.55
375-92-8	Perfluoroheptanesulfonic acid	43.03		3.67	0.73

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: AD38758-001 MSD Lab Sample ID: 460-282979-1 MSD

Matrix: Water Lab File ID: 23AUG08-58.d

Analysis Method: 1633 Date Collected: 06/22/2023 13:22

Extraction Method: 1633 Date Extracted: 07/17/2023 07:22

Sample wt/vol: 272.6(mL) Date Analyzed: 08/08/2023 22:58

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	88.7		10-130
STL01893	13C5 PFPeA	95.1		35-150
STL02577	13C5 PFHxA	95.3		55-150
STL01892	13C4 PFHpA	88.9		55-150
STL01052	13C8 PFOA	85.0		60-140
STL02578	13C9 PFNA	120		55-140
STL02579	13C6 PFDA	83.2		50-140
STL02580	13C7 PFUnA	88.7		30-140
STL02703	13C2-PFDoDA	81.6		10-150
STL02116	13C2 PFTeDA	79.3		10-130
STL02337	13C3 PFBS	108		55-150
STL02581	13C3 PFHxS	90.2		55-150
STL01054	13C8 PFOS	93.8		45-140
STL01056	13C8 FOSA	92.7		30-130
STL02118	d3-NMeFOSAA	86.0		45-200
STL02117	d5-NEtFOSAA	83.3		10-200
STL02395	M2-4:2 FTS	111		60-200
STL02279	M2-6:2 FTS	93.6		60-200
STL02280	M2-8:2 FTS	103		50-200
STL02255	13C3 HFPO-DA	88.1		25-160
STL02277	d7-N-MeFOSE-M	77.1		10-150
STL02278	d9-N-EtFOSE-M	76.5		10-150
STL02704	d5-NEtPFOSA	58.5		10-130
STL02705	d3-NMePFOSA	59.9		15-130

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-58.d
Lims ID: 460-282979-A-1-C MSD
Client ID: AD38758-001
Sample Type: MSD
Inject. Date: 08-Aug-2023 22:58:22 ALS Bottle#: 43 Worklist Smp#: 53
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 460-282979-A-1-C MSD
Misc. Info.: Plate: 1 Rack: 1 410-0090889-053
Operator ID: US19_USR_INS20263 Instrument ID: 30729

Method: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\PFAS_30729_1633.m
Limit Group: LC - 1633 ICAL
Last Update: 09-Aug-2023 09:51:16 Calib Date: 05-Aug-2023 11:25:28
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\30729\20230805-90708.b\23AUG05DCAL-11.d

Column 1 : Det: EXP1
Process Host: CTX1649

First Level Reviewer: QY4X Date: 09-Aug-2023 09:25:58
Ratio Calibration: Initial Calibration Level: 5

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4-PFBA										
216.80 > 171.90	2.925	2.932	-0.007	1.000	1281738	8.87		88.7	75583	
* 3 13C3PFBA										
216.00 > 172.00	2.925	2.932	-0.007		890082	5.00			1706	
1 PFBA										
212.80 > 168.90	2.925	2.942	-0.017	1.000	1080218	10.1		101	5357	
4 PFMPA										
229.00 > 84.90	3.156	3.167	-0.011	0.919	716956	4.76		95.1	50060	
5 3:3 FTCA										
241.00 > 177.00	3.156	3.167	-0.011	0.919	84410	11.2	Target=1.11	89.5	6018	
241.00 > 117.00	3.156	3.167	-0.011	0.919	78381		1.08(0.55-1.66)		2480	
D 7 13C5 PFPeA										
268.30 > 223.00	3.435	3.444	-0.009	0.916	415499	4.76		95.1	25792	
6 PFPA										
263.00 > 219.00	3.435	3.447	-0.012	1.000	727165	4.83	Target=1273.32	96.5	13550	
263.00 > 68.90	3.435	3.447	-0.012	1.000	988		736.00(636.66-1909.99)		65.0	
8 PFMBA										
279.00 > 85.10	3.548	3.562	-0.014	1.033	578759	4.79		95.6	36476	
D 10 13C2-4:2FTS										
329.10 > 80.90	3.627	3.638	-0.011	0.826	75770	5.19	Target=0.35	111	2924	
329.10 > 309.00	3.616	3.638	-0.022	0.823	185711		0.41(0.18-0.53)	111	11081	
9 4:2FTS										
327.10 > 307.00	3.627	3.642	-0.015	1.000	357994	8.28	Target=1.40	88.1	21660	
327.10 > 80.90	3.627	3.642	-0.015	1.000	269003		1.33(0.70-2.10)		16322	
12 NFDHA										
295.00 > 201.00	3.719	3.734	-0.015	0.992	69199	4.88	Target=2.17	97.4	4886	
295.00 > 84.90	3.719	3.734	-0.015	0.992	33480		2.07(1.08-3.25)		2191	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 14 13C5 PFHxA										
318.00 > 273.00	3.750	3.750	0.0	1.000	50625	2.38	Target=15.34	95.3	3272	
318.00 > 120.30	3.739	3.750	-0.011	0.997	3929		12.88(7.67-23.01)	95.3	270	
* 15 13C2 PFHxA										M
315.10 > 270.00	3.750	3.750	0.0		304028	2.50	Target=103.53		19504	
315.10 > 119.40	3.739	3.750	-0.011		2315		131.33(51.76-155.29)		145	M
13 PFHxA										
313.00 > 269.00	3.750	3.755	-0.005	1.000	265375	2.41	Target=13.63	96.4	7282	
313.00 > 118.90	3.739	3.755	-0.016	0.997	19290		13.76(6.82-20.45)		1241	
D 18 13C3 PFBS										
302.10 > 79.90	3.856	3.856	0.0	0.878	517638	2.51	Target=6.99	108	31873	
302.10 > 98.90	3.844	3.856	-0.012	0.875	68453		7.56(3.50-10.49)	108	4388	
17 PFBS										
298.70 > 79.90	3.844	3.860	-0.016	0.997	285227	2.12	Target=3.41	95.6	17363	
298.70 > 98.80	3.844	3.860	-0.016	0.997	88203		3.23(1.70-5.11)		4218	
16 5:3 FTCA										
341.00 > 237.10	3.844	3.860	-0.016	1.025	1896564	58.3	Target=2.68	93.2	114241	
341.00 > 217.00	3.844	3.860	-0.016	1.025	665308		2.85(1.34-4.01)		40804	
D 20 13C3 HFPO-DA										
286.90 > 168.90	3.867	3.867	0.0	1.031	1182255	8.81	Target=29.00	88.1	71753	
286.90 > 184.90	3.856	3.867	-0.011	1.028	39649		29.82(14.50-43.50)	88.1	2463	
19 HFPO-DA										
284.90 > 168.90	3.867	3.872	-0.005	1.000	782211	9.67	Target=17.67	96.7	2551	
284.90 > 184.90	3.856	3.872	-0.016	0.997	36050		21.70(8.84-26.51)		2277	
23 PFEESA										
314.80 > 134.90	3.996	4.012	-0.016	1.066	2448241	4.21	Target=14.15	94.6	156253	
314.80 > 82.90	3.986	4.012	-0.026	1.063	158205		15.48(7.08-21.23)		5554	
D 25 13C4 PFHpA										
367.10 > 322.00	4.007	4.018	-0.011	1.069	566517	2.22		88.9	35099	
24 PFHpA										
363.10 > 319.00	4.007	4.022	-0.015	1.000	503288	2.35	Target=3.62	94.0	15313	
363.10 > 169.00	3.996	4.022	-0.026	0.997	140072		3.59(1.81-5.44)		8987	
26 ADONA										
376.90 > 250.90	4.095	4.111	-0.016	1.059	1960681	8.58	Target=12.84	90.8	87065	
376.90 > 84.80	4.084	4.111	-0.027	1.056	150462		13.03(6.42-19.27)		8857	
D 29 13C2-6:2FTS										
429.10 > 80.90	4.117	4.129	-0.012	0.938	33575	4.45	Target=0.12	93.6	2001	
429.10 > 409.00	4.107	4.129	-0.023	0.935	201014		0.17(0.06-0.18)	93.6	12512	
27 6:2FTS										
427.10 > 407.00	4.117	4.132	-0.015	1.000	298382	9.26	Target=1.71	97.3	17738	
427.10 > 80.90	4.117	4.132	-0.015	1.000	178499		1.67(0.85-2.56)		10727	
28 PFPeS										
349.10 > 79.90	4.139	4.155	-0.016	0.941	492245	2.47	Target=3.85	105	22447	
349.10 > 98.90	4.139	4.155	-0.016	0.941	134271		3.67(1.93-5.78)		8099	
32 PFOA										
413.00 > 369.00	4.239	4.250	-0.011	1.000	331142	2.93	Target=2.36	117	346	
413.00 > 169.00	4.239	4.250	-0.011	1.000	138571		2.39(1.18-3.53)		243	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 30 13C4 PFOA										
417.10 > 172.00	4.239	4.261	-0.022		28270	2.50			1819	
D 31 13C8 PFOA										
421.10 > 376.00	4.239	4.261	-0.022	1.000	571003	2.12		85.0	34660	
* 35 18O2 PFHxS										
403.00 > 83.90	4.391	4.401	-0.010		471422	2.37			31741	
D 36 13C3 PFHxS										
402.10 > 79.90	4.401	4.411	-0.010	1.002	479009	2.14	Target=3.90	90.2	32008	
402.10 > 98.80	4.391	4.411	-0.020	1.000	121598		3.94(1.95-5.85)	90.2	8490	
34 PFHxS										
398.70 > 79.90	4.391	4.413	-0.022	0.998	245354	2.30	Target=3.39	101	1217	
398.70 > 98.90	4.391	4.413	-0.022	0.998	76430		3.21(1.69-5.08)		425	
33 7:3 FTCA										
441.00 > 316.90	4.419	4.434	-0.015	1.179	1260392	54.6	Target=0.66	87.3	82592	
441.00 > 336.90	4.419	4.434	-0.015	1.179	1854870		0.68(0.33-1.00)		120697	
* 37 13C5 PFNA										
468.00 > 423.00	4.471	4.493	-0.022		143181	1.25			9318	
39 PFNA										
463.00 > 419.00	4.481	4.493	-0.012	1.000	272908	2.24	Target=5.25	89.5	870	
463.00 > 219.00	4.481	4.493	-0.012	1.000	53197		5.13(2.63-7.88)		286	
D 38 13C9 PFNA										
472.10 > 427.00	4.481	4.493	-0.012	1.002	181285	1.50		120	12341	
D 41 13C2-8:2FTS										
529.10 > 80.90	4.589	4.601	-0.012	1.045	19976	4.96	Target=0.14	103	1329	
529.10 > 509.00	4.589	4.601	-0.012	1.045	138330		0.14(0.07-0.21)	103	9274	
40 8:2FTS										
527.10 > 507.00	4.589	4.614	-0.025	1.000	214175	9.17	Target=1.21	95.3	14193	
527.10 > 80.80	4.589	4.614	-0.025	1.000	214646		1.00(0.60-1.81)		14155	
42 PFHpS										
449.00 > 79.90	4.659	4.685	-0.026	0.931	409479	2.35	Target=3.73	98.3	16227	
449.00 > 98.80	4.659	4.685	-0.026	0.931	107323		3.82(1.86-5.59)		7306	
D 44 d3-NMeFOSAA										
573.20 > 419.00	4.710	4.723	-0.013	0.941	276417	4.30		86.0	17675	
43 NMeFOSAA										
570.10 > 419.00	4.710	4.725	-0.015	1.000	125400	2.42	Target=1.77	96.7	32124	
570.10 > 483.00	4.710	4.725	-0.015	1.000	70146		1.79(0.89-2.66)		369	
* 46 13C2 PFDA										
515.10 > 470.10	4.757	4.778	-0.021		228223	1.25			15773	
D 47 13C6 PFDA										
519.10 > 474.10	4.757	4.778	-0.021	1.000	191562	1.04		83.2	13037	
45 PFDA										
512.90 > 469.00	4.757	4.781	-0.024	1.000	278656	2.56	Target=6.01	102	8284	
512.90 > 219.00	4.757	4.781	-0.024	1.000	49378		5.64(3.00-9.01)		3486	
D 49 d5-NEtFOSAA										
589.20 > 419.00	4.863	4.874	-0.011	0.972	249204	4.17		83.3	16209	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
48 NEtFOSAA										
584.20 > 419.10	4.863	4.886	-0.023	1.000	89875	2.41	Target=1.68	96.3	187	
584.20 > 526.00	4.863	4.886	-0.023	1.000	65824		1.37(0.84-2.53)		314	
* 52 13C4 PFOS										
502.80 > 79.90	5.003	5.033	-0.030		309569	2.40	Target=4.18		12838	
502.80 > 98.90	4.994	5.033	-0.039		85883		3.60(2.09-6.27)		5807	
D 51 13C8 PFOS										
507.10 > 79.90	5.003	5.033	-0.030	1.000	413754	2.25	Target=3.96	93.8	14166	
507.10 > 98.90	4.994	5.033	-0.039	0.998	102269		4.05(1.98-5.94)	93.8	6956	
50 PFOS										
498.90 > 79.90	5.003	5.044	-0.041	1.000	392907	2.47	Target=4.55	106	2628	
498.90 > 98.80	5.003	5.044	-0.041	1.000	84745		4.64(2.28-6.83)		311	
D 54 13C7 PFUnA										
570.00 > 525.10	5.132	5.170	-0.038	1.079	187588	1.11		88.7	9544	
53 PFUnA										
563.10 > 519.00	5.132	5.180	-0.048	1.000	323134	2.43	Target=11.29	97.2	9489	
563.10 > 269.10	5.132	5.180	-0.048	1.000	30461		10.61(5.64-16.93)		2132	
55 9ClFOS										
530.80 > 351.00	5.353	5.404	-0.051	1.384	2030259	9.64	Target=3.20	103	132628	
532.80 > 353.00	5.345	5.404	-0.059	1.382	611012		3.32(1.60-4.81)		30053	
56 PFNS										
548.80 > 79.90	5.464	5.506	-0.042	1.092	304341	2.60	Target=4.70	108	21227	
548.80 > 98.80	5.464	5.506	-0.042	1.092	68123		4.47(2.35-7.05)		3663	
D 58 PFDoDA										
615.10 > 570.00	5.616	5.646	-0.030	1.181	153261	1.02		81.6	8499	
57 PFDoA										
613.10 > 569.00	5.616	5.654	-0.038	1.000	300699	2.60	Target=16.23	104	8377	
613.10 > 319.00	5.616	5.654	-0.038	1.000	19342		15.55(8.12-24.35)		1425	
60 PFOSA										
498.10 > 77.90	5.912	5.915	-0.003	1.000	672523	2.61	Target=58.34	104	13708	
498.10 > 478.00	5.904	5.915	-0.011	0.999	11747		57.25(29.17-87.51)		251	
D 59 13C8 FOSA										
506.10 > 77.80	5.912	5.923	-0.011	1.182	625250	2.32		92.7	42725	
61 PFDS										
599.00 > 79.90	5.920	5.965	-0.045	1.183	434660	2.36	Target=4.36	97.7	30926	
599.00 > 98.80	5.920	5.965	-0.045	1.183	93358		4.66(2.18-6.54)		5219	
62 PFTrDA										
663.00 > 619.00	6.056	6.099	-0.043	0.937	237831	2.51	Target=3.59	100	17572	
663.00 > 168.90	6.056	6.099	-0.043	0.937	61192		3.89(1.79-5.38)		4805	
63 11ClFOS										
630.90 > 450.90	6.241	6.288	-0.047	1.614	2520834	8.95	Target=5.30	94.7	158776	
632.90 > 452.90	6.241	6.288	-0.047	1.614	477904		5.27(2.65-7.95)		30526	
D 65 13C2 PFTeDA										
715.20 > 670.00	6.462	6.485	-0.023	1.358	83834	0.99		79.3	5383	
64 PFTeDA										
713.10 > 669.00	6.452	6.498	-0.046	0.998	190549	2.48	Target=3.31	99.2	12204	
713.10 > 168.90	6.452	6.498	-0.046	0.998	59159		3.22(1.66-4.97)		4035	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 67 d7-N-Me-FOSE										
623.20 > 58.90	6.684	6.692	-0.008	1.336	855372	19.3		77.1	35375	
68 N-MeFOSE-M										
616.10 > 58.90	6.708	6.704	0.004	1.004	982530	25.8		103	8926	
66 PFDoS										
699.10 > 79.90	6.684	6.729	-0.045	1.336	412474	2.15	Target=4.96	88.4	23178	
699.10 > 98.80	6.671	6.729	-0.058	1.333	86858		4.75(2.48-7.44)		5030	
D 69 d3-NMePFOSA										
515.00 > 219.00	6.815	6.823	-0.008	1.362	79287	1.50		59.9	4289	
70 NMeFOSA										
511.90 > 219.00	6.827	6.823	0.004	1.002	69806	2.77	Target=0.78	111	1334	
511.90 > 169.00	6.815	6.823	-0.008	1.000	89894		0.78(0.39-1.17)		1038	
D 71 d9-N-EtFOSE										
639.20 > 58.90	6.961	6.957	0.004	1.391	1042344	19.1		76.5	31640	
72 N-EtFOSE-M										
630.00 > 58.90	6.972	6.978	-0.006	1.001	1000205	25.5		102	9130	
D 73 d5-NEtPFOSA										
531.10 > 219.00	7.074	7.080	-0.006	1.414	82951	1.46		58.5	4083	
74 N-EtFOSA-M										
526.00 > 219.00	7.084	7.090	-0.006	1.001	90921	2.84	Target=3.00	114	1271	
526.00 > 169.00	7.084	7.090	-0.006	1.001	28513		3.19(1.50-4.50)		563	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

PFC_ST_02214 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 09-Aug-2023 09:52:58 Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-58.d

Injection Date: 08-Aug-2023 22:58:22 Instrument ID: 30729

Lims ID: 460-282979-A-1-C MSD

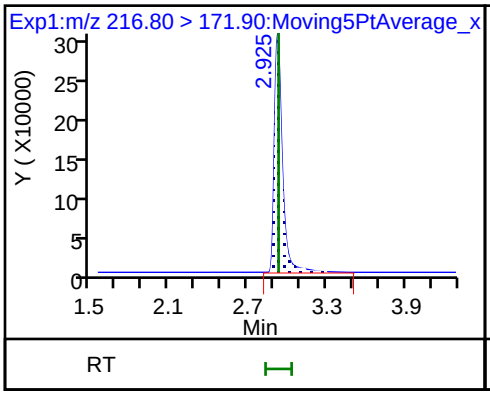
Client ID: AD38758-001

Operator ID: US19_USR_INS20263 ALS Bottle#: 43 Worklist Smp#: 53

Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: PFAS_30729_1633 Limit Group: LC - 1633 ICAL

D 2 13C4-PFBA



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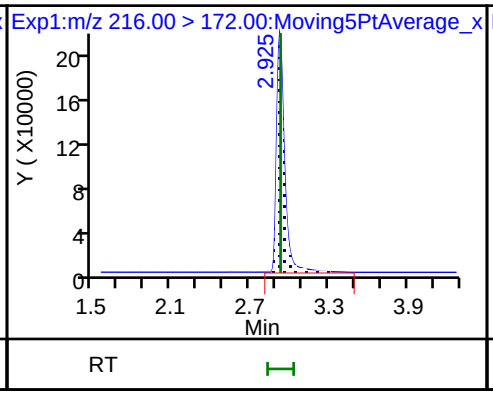

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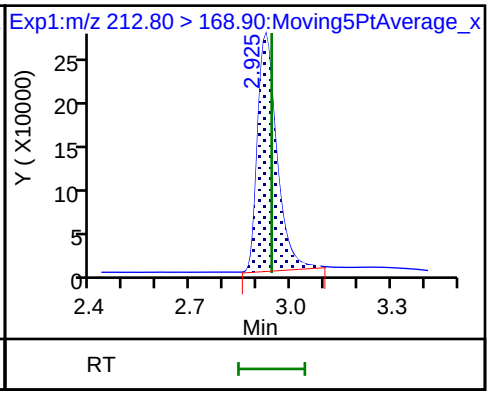

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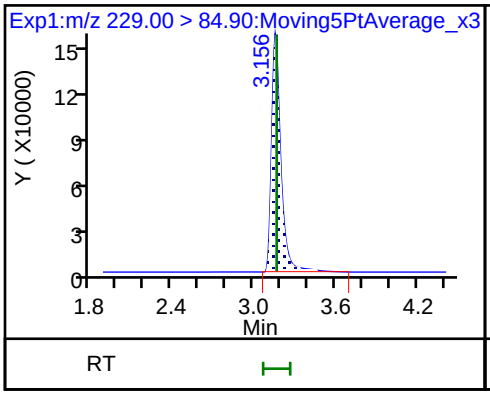

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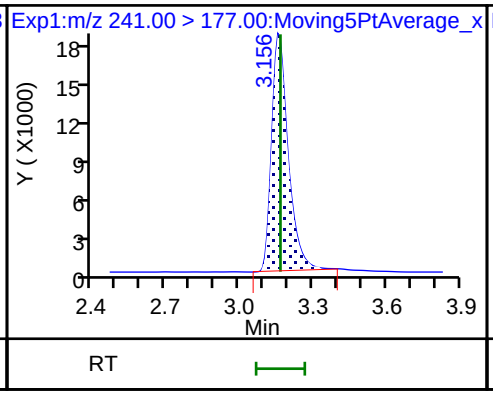

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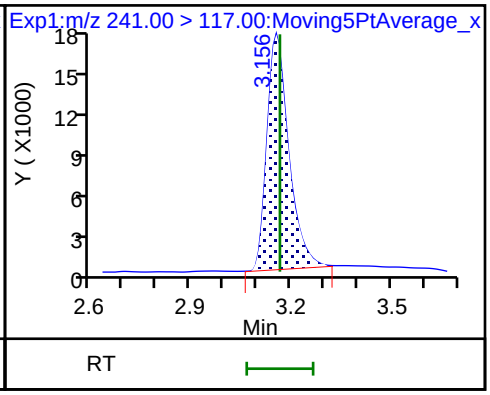

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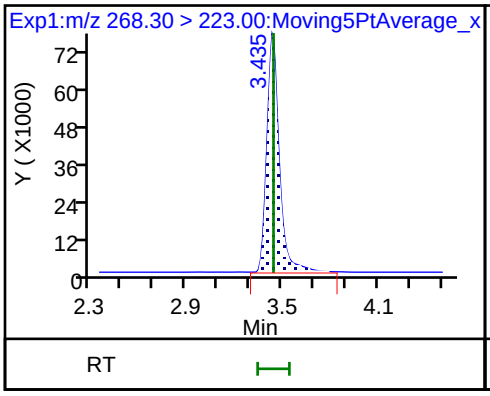

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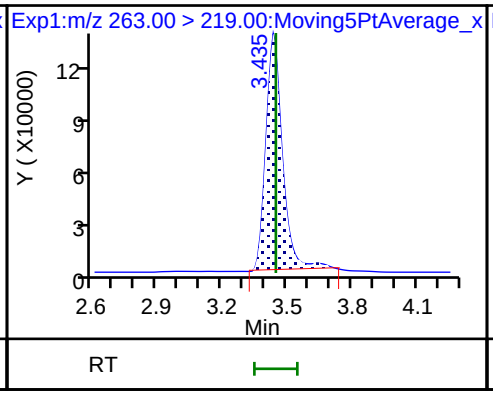

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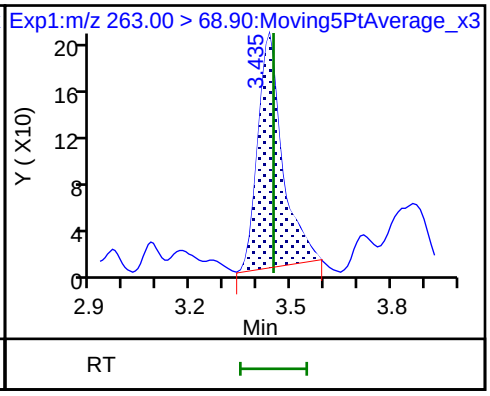

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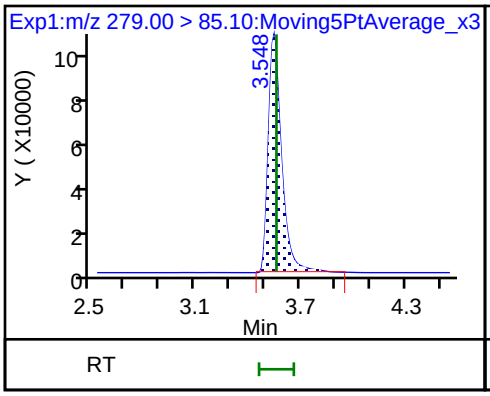

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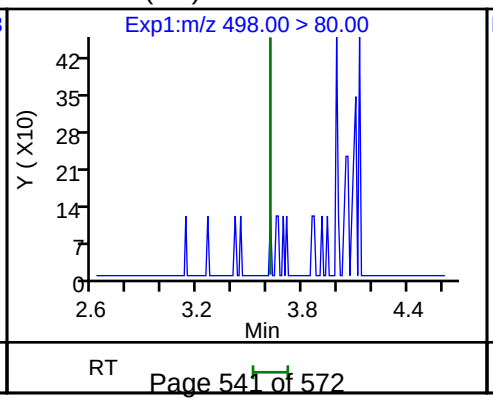

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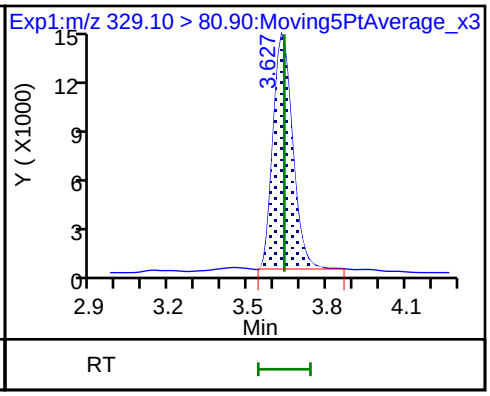

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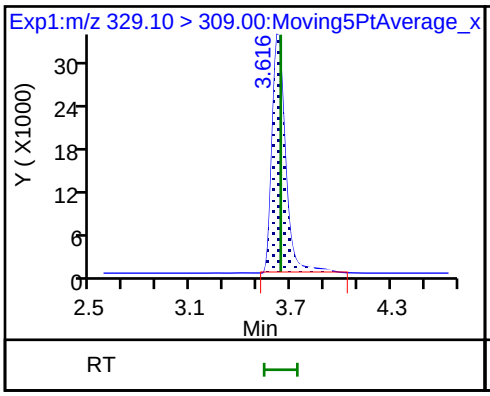

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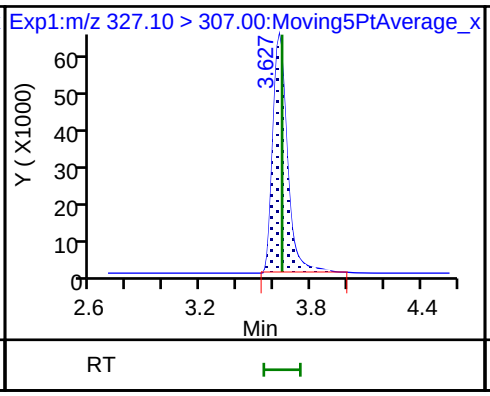

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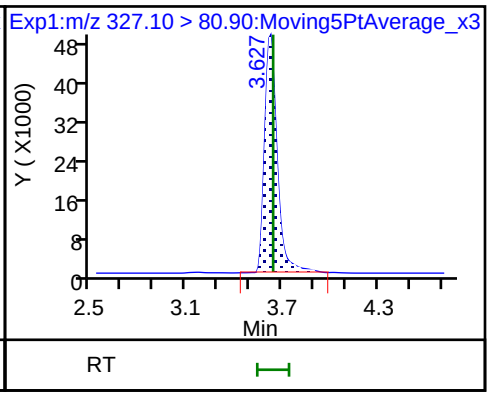

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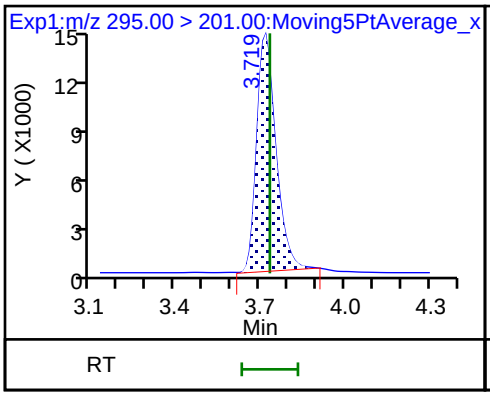

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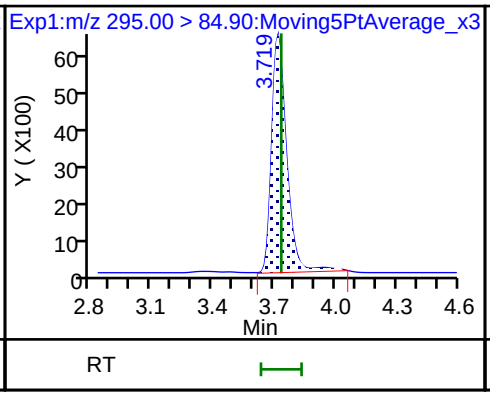

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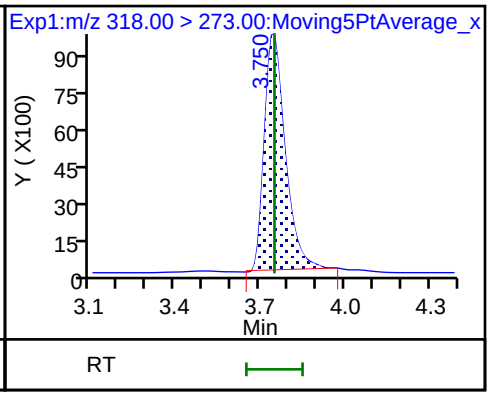

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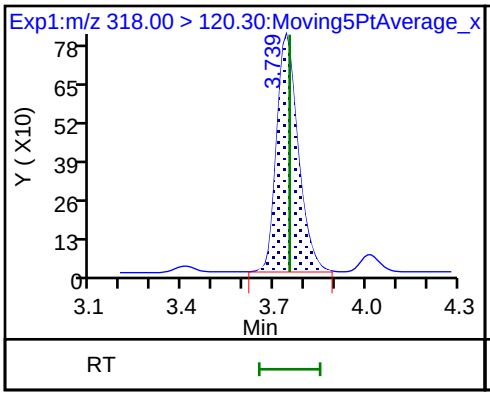

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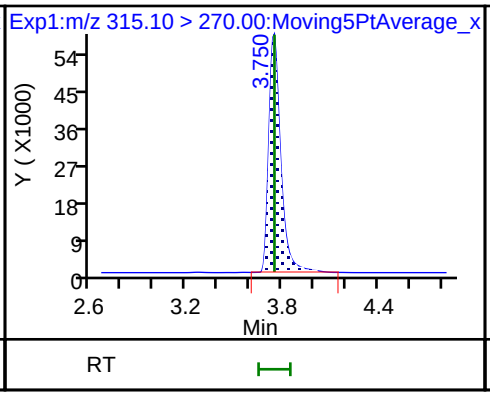

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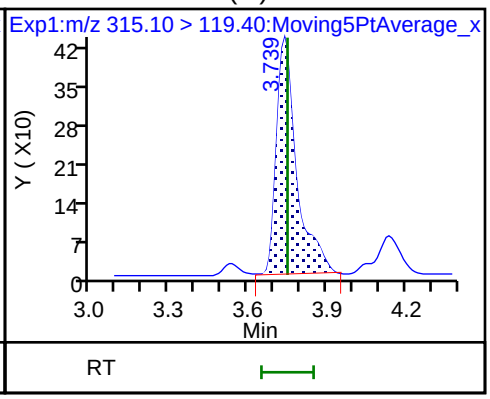

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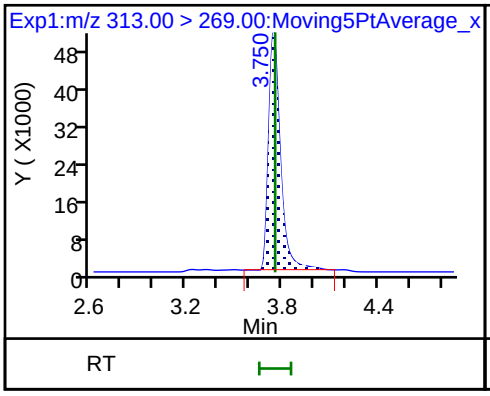

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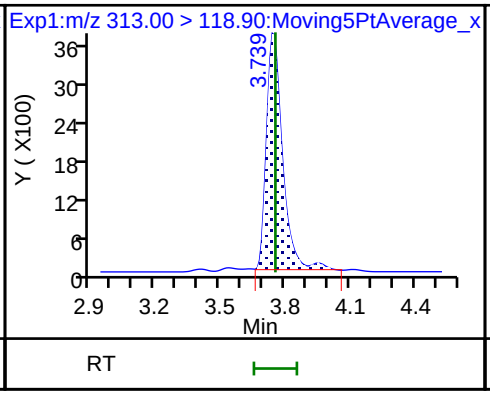

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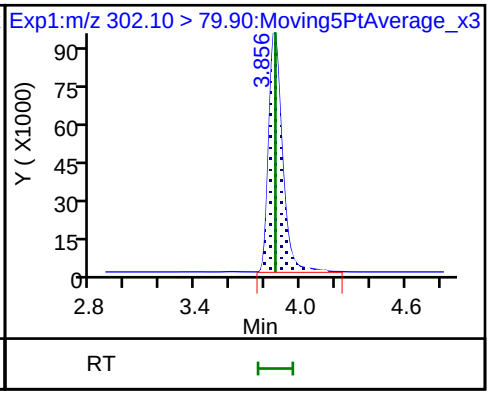

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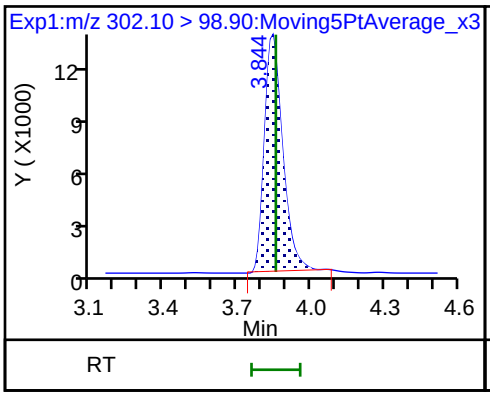

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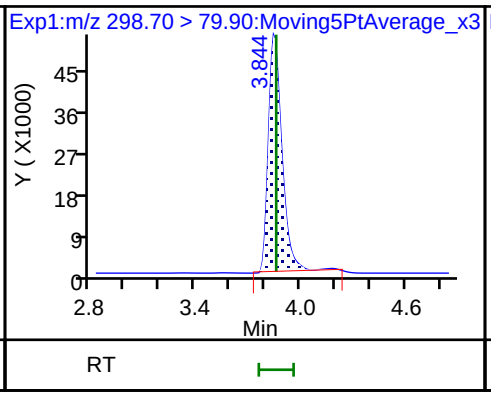

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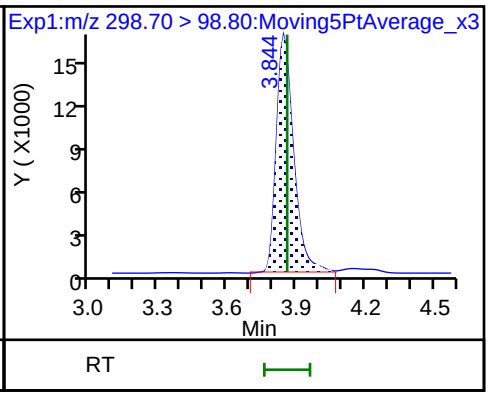

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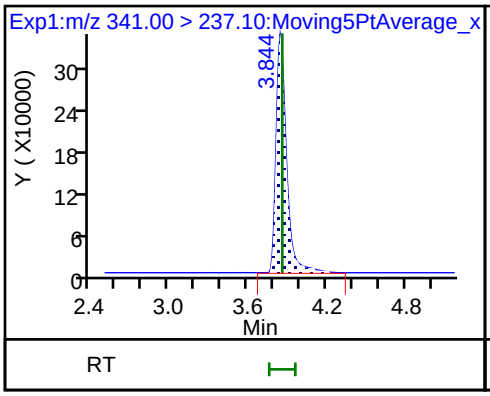

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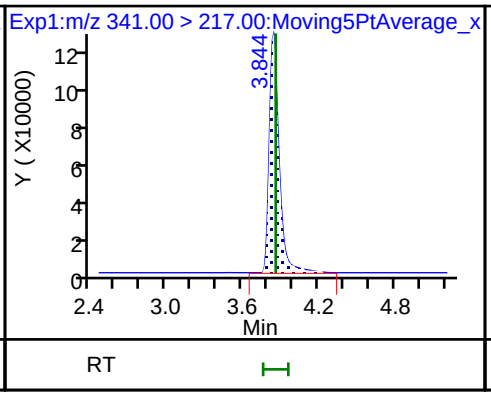

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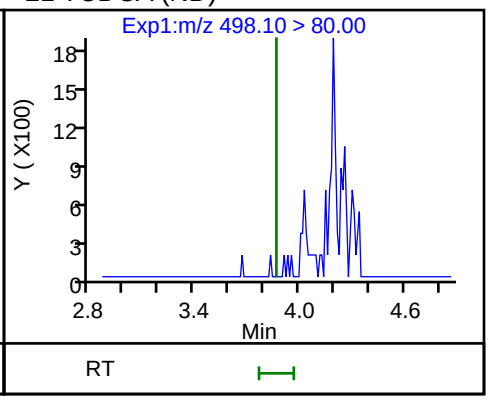

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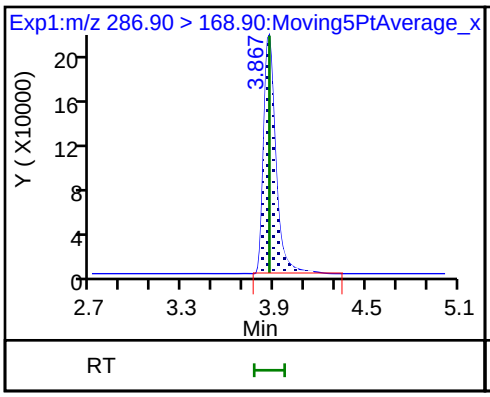

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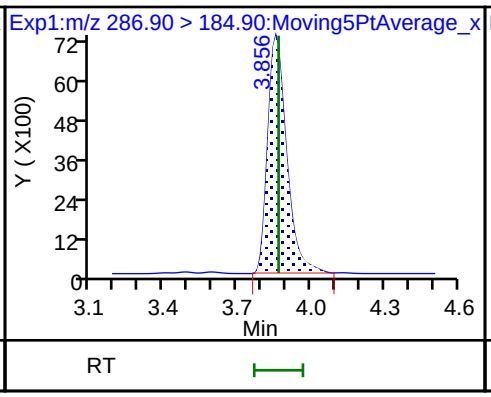

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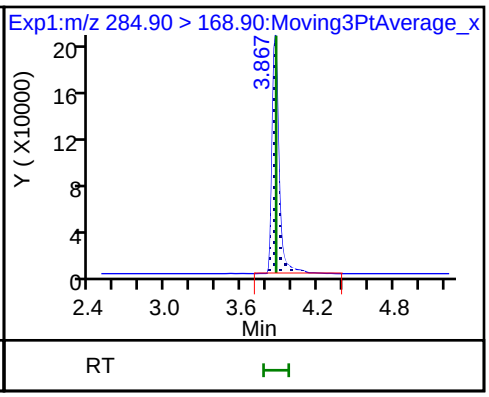

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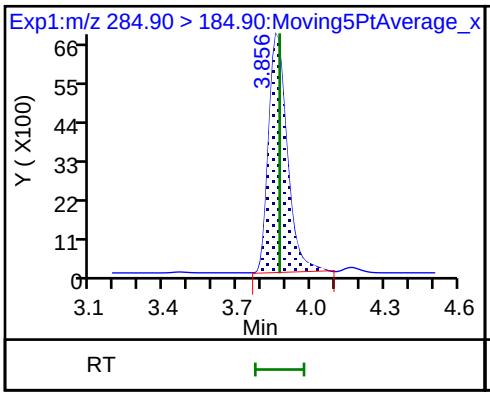

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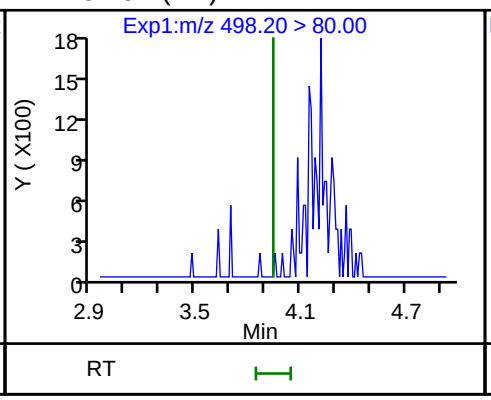

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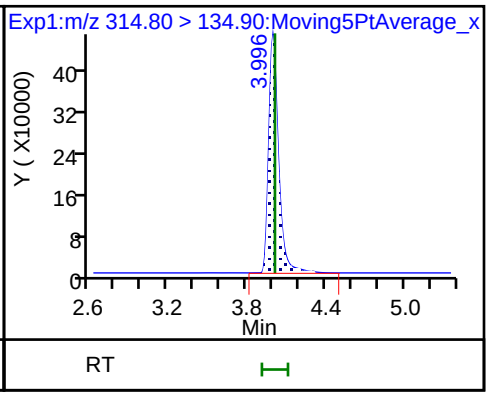

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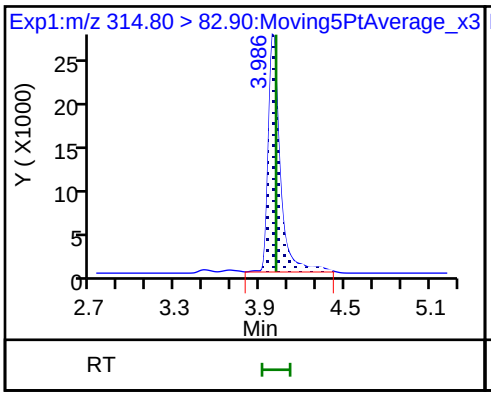

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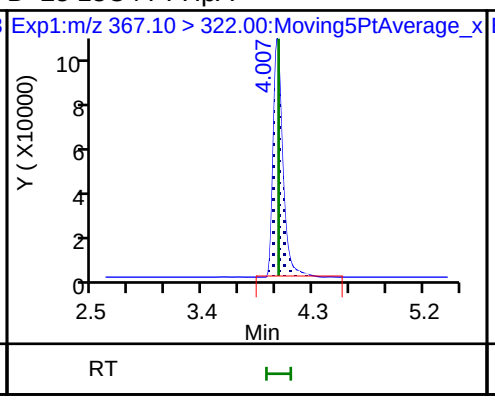

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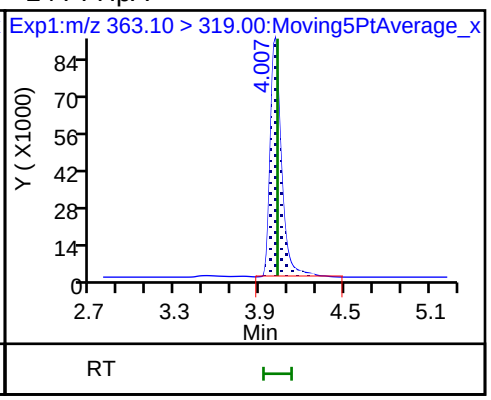

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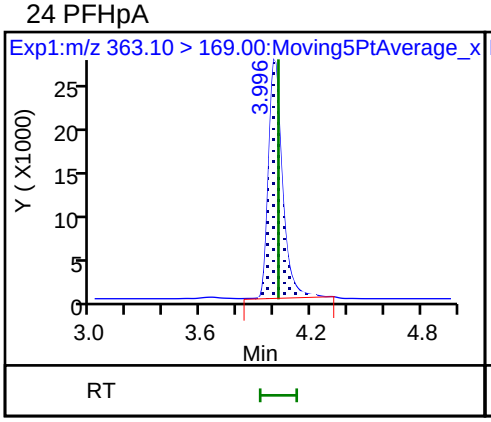

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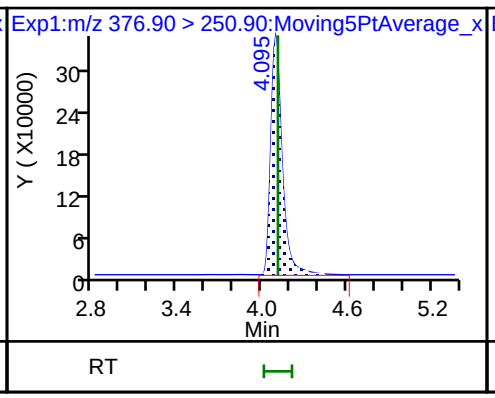

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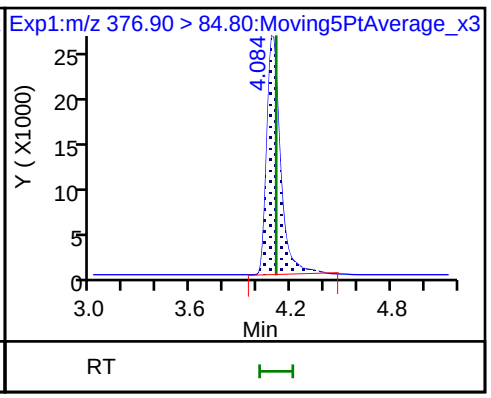

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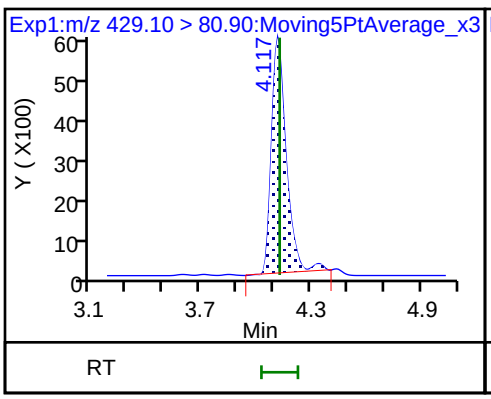

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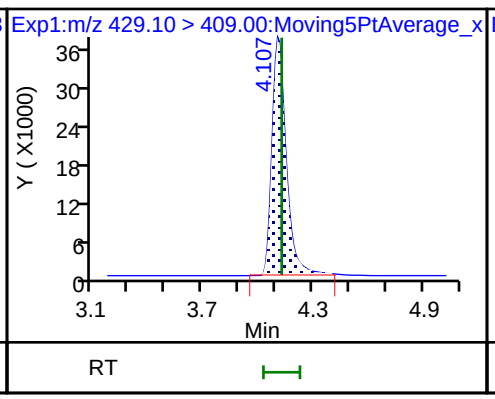

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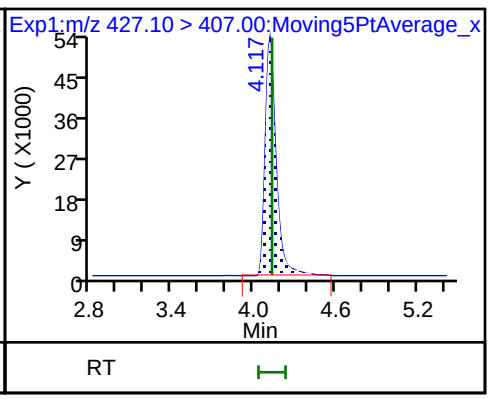

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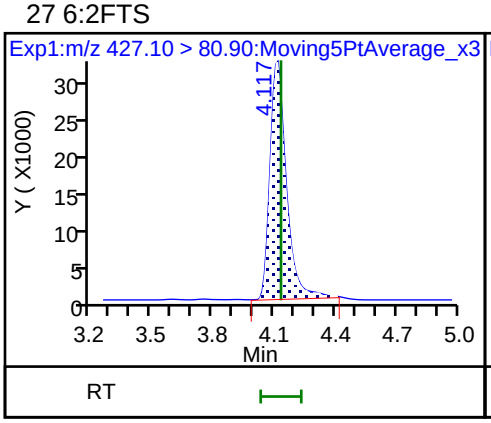

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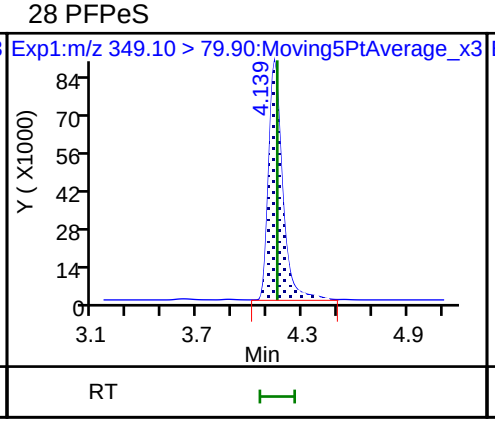

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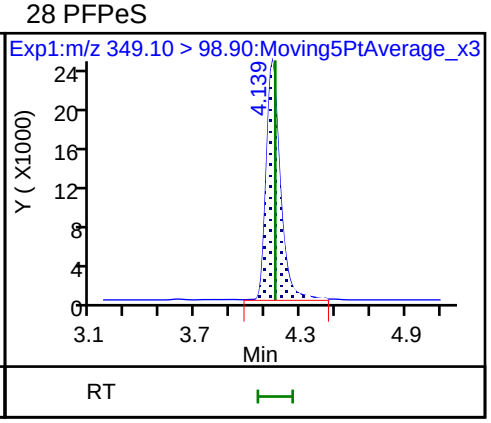

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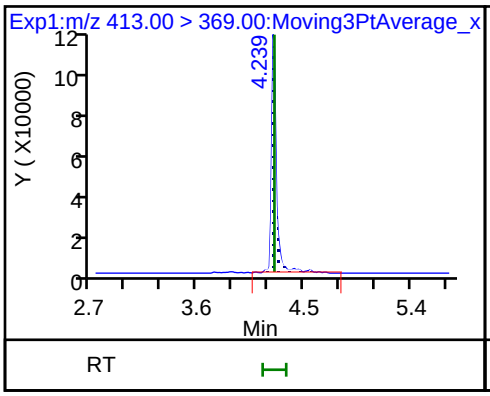

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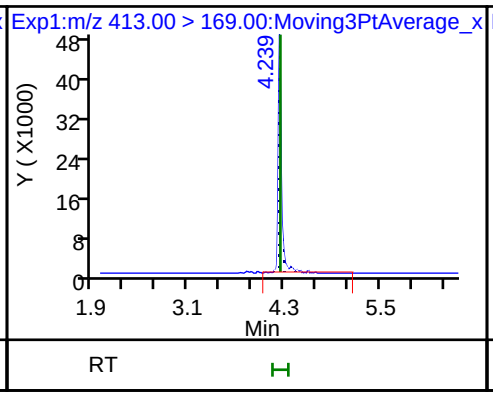

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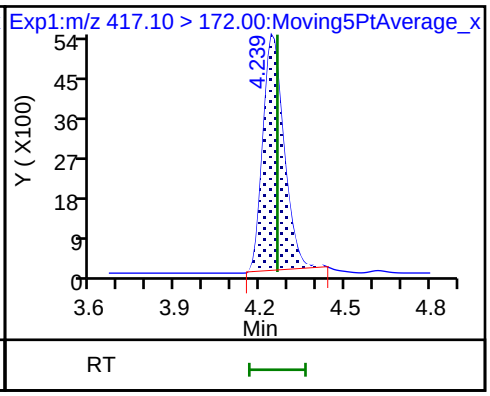

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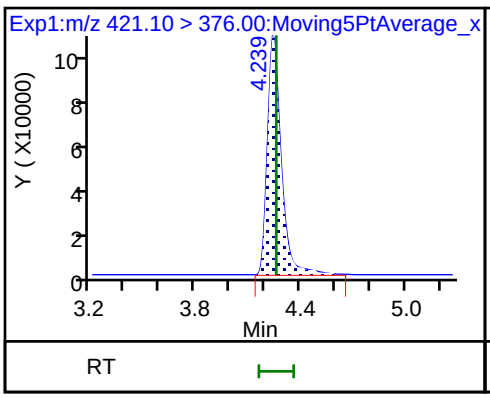

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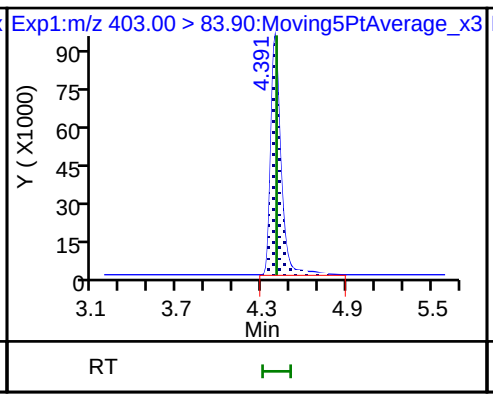

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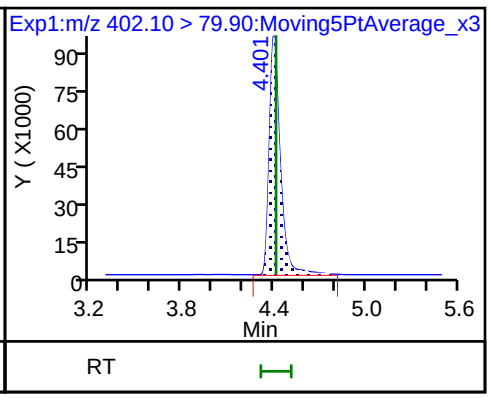

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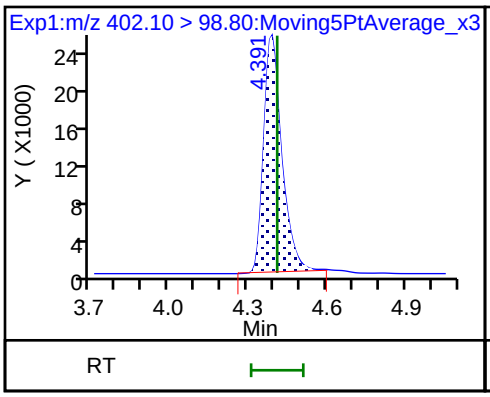

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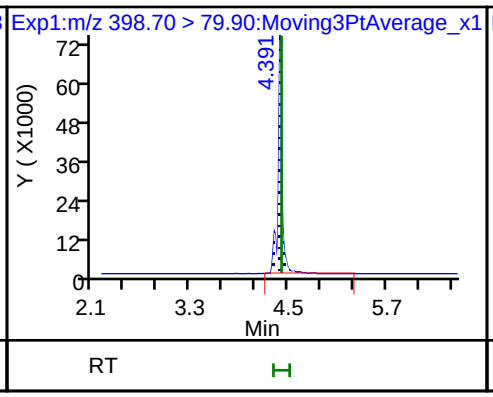

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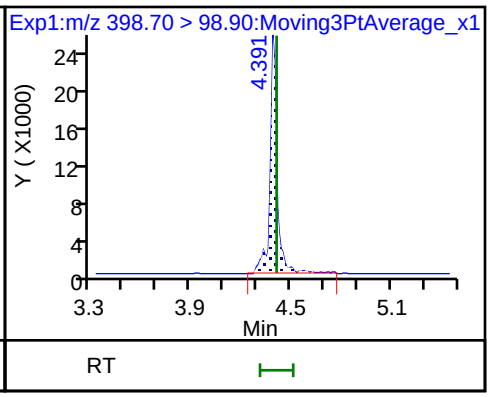

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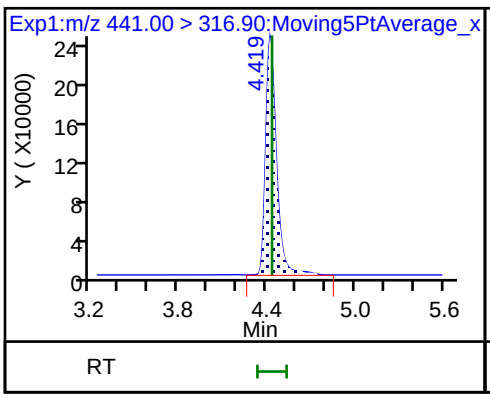

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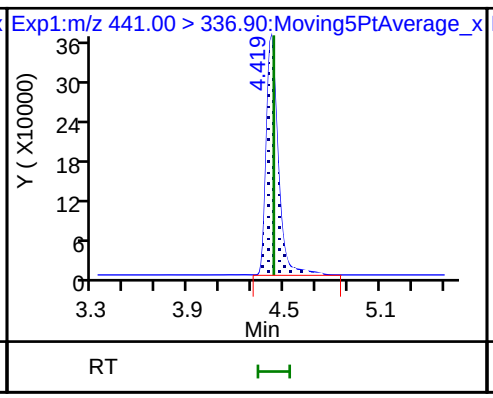

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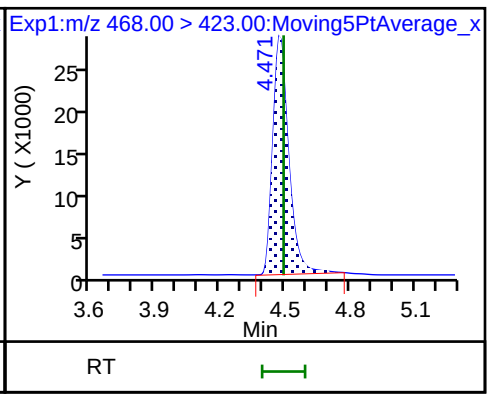

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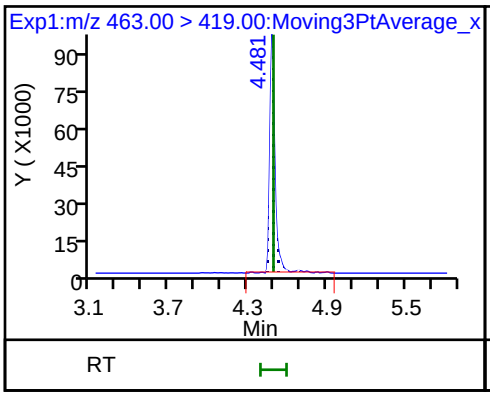

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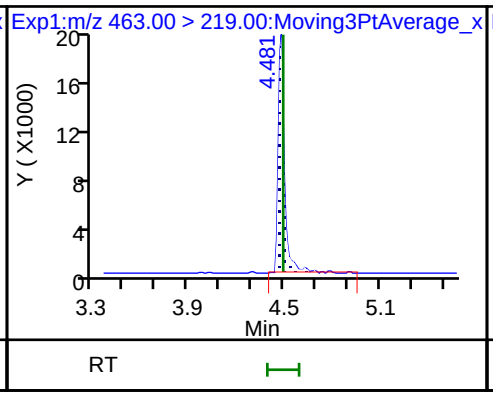

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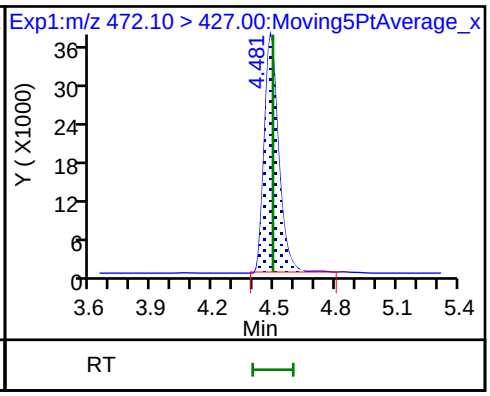

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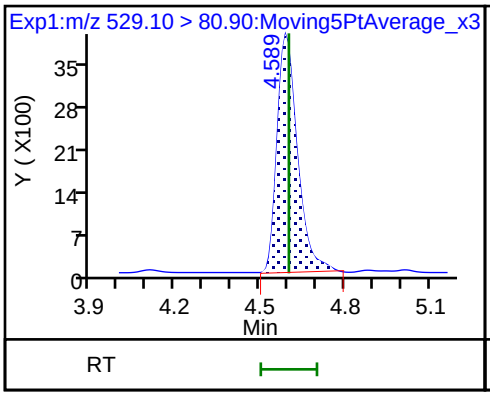

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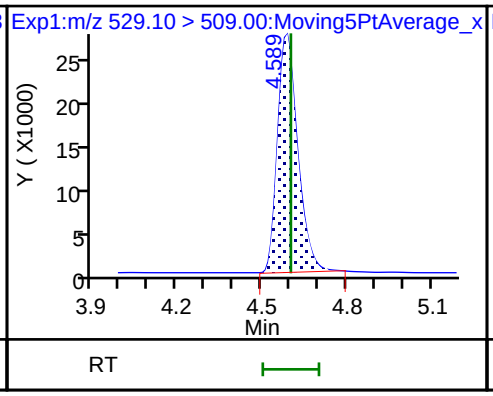

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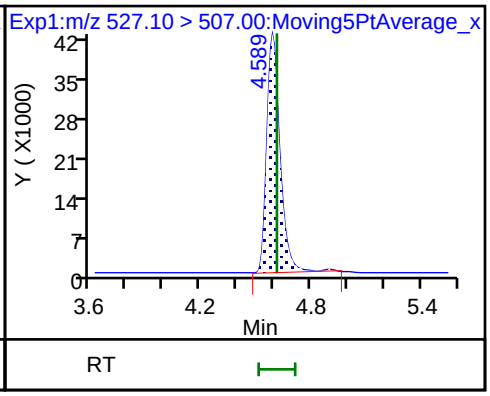

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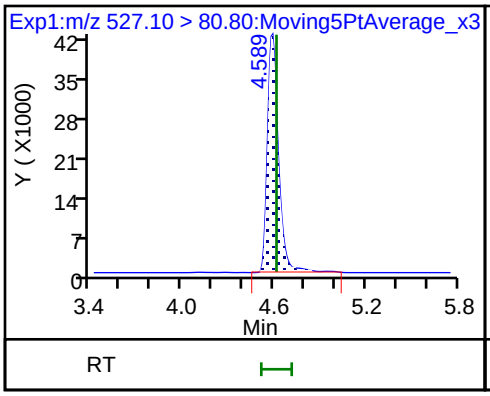

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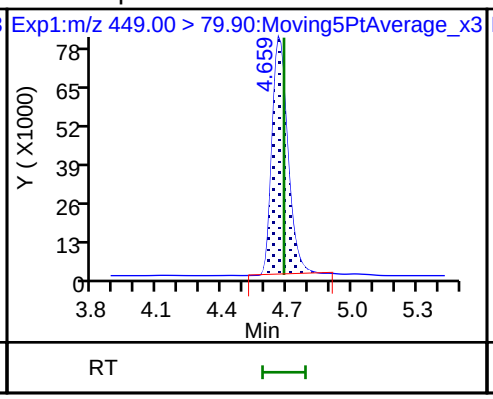

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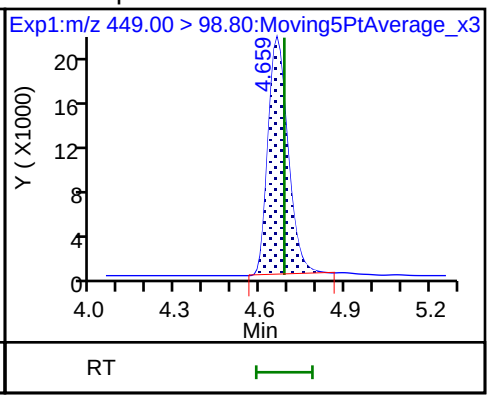

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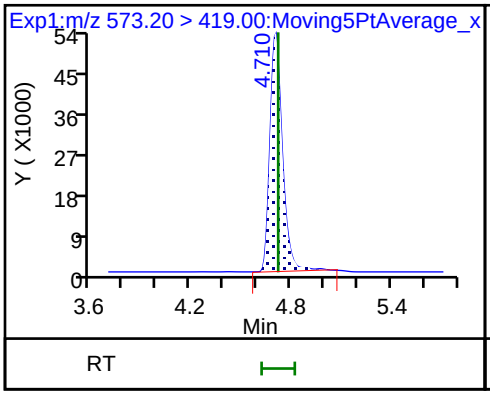

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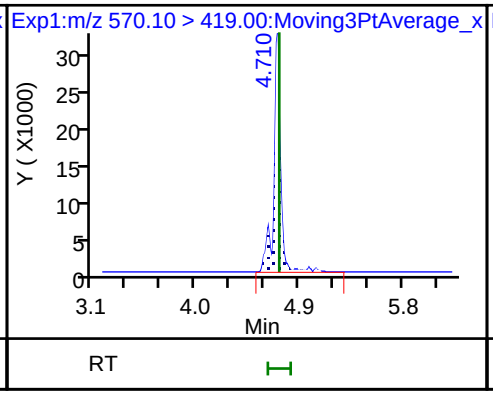

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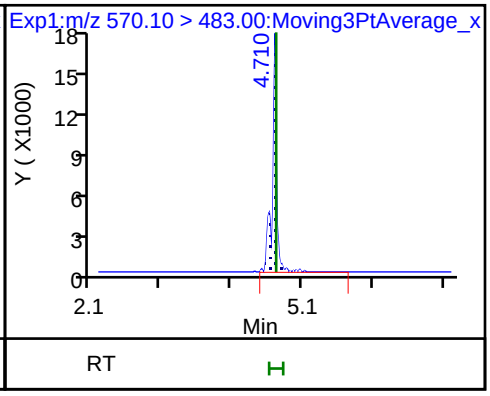

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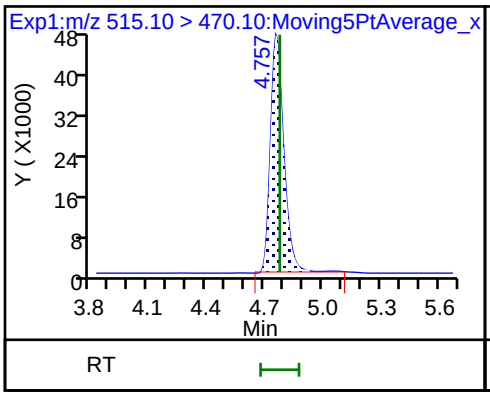

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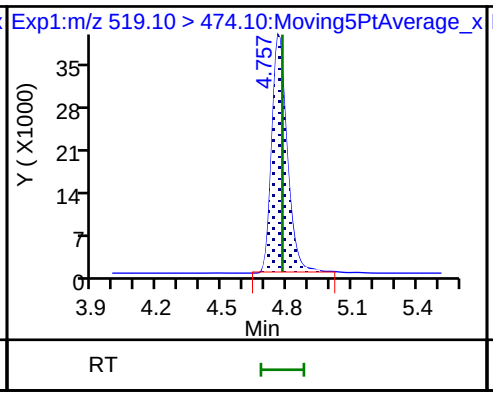

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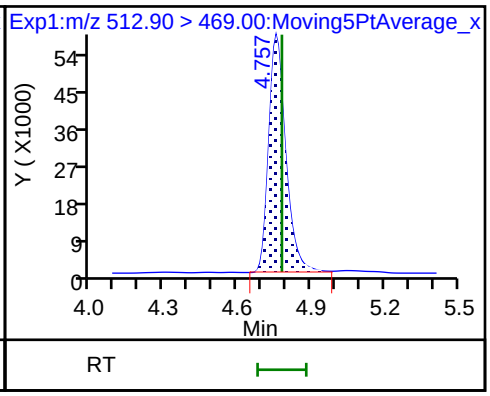

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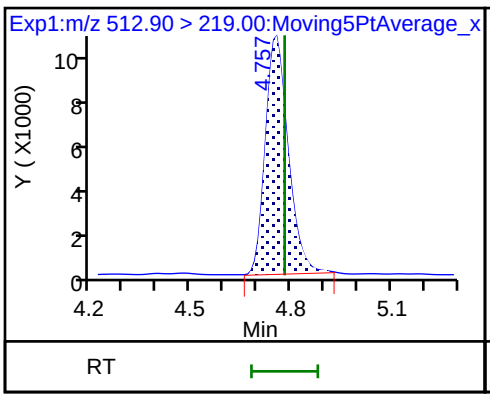

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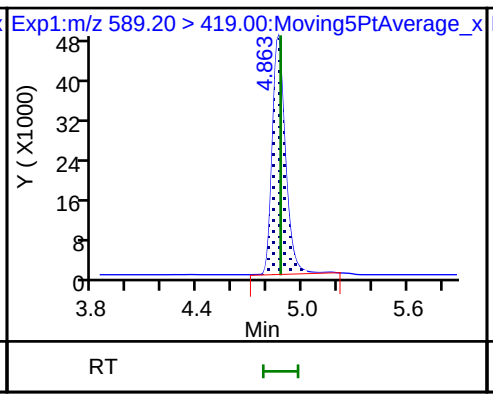

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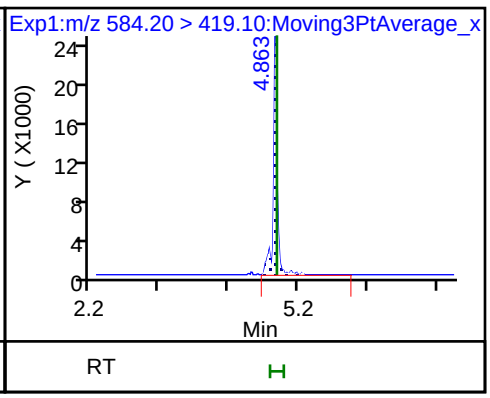

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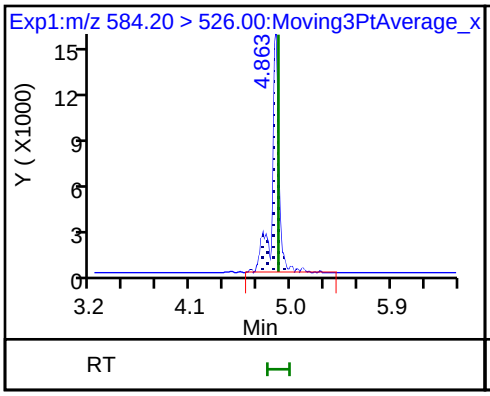

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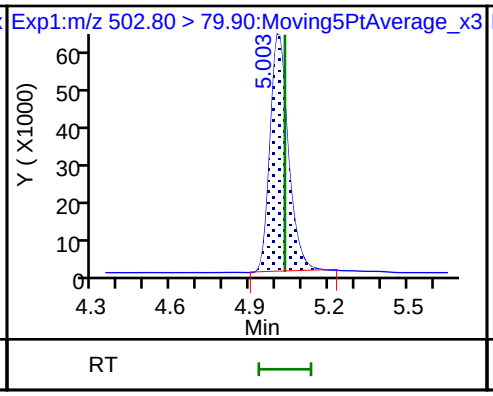

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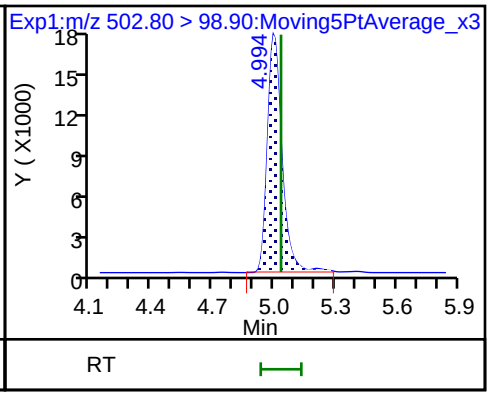

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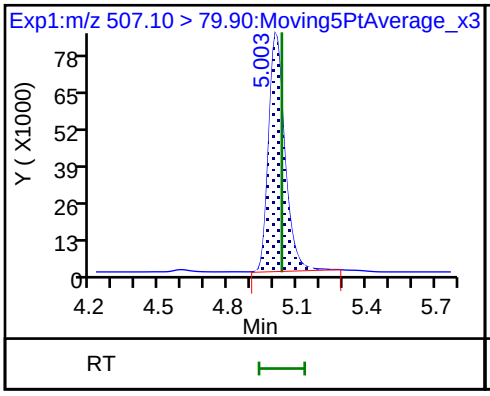

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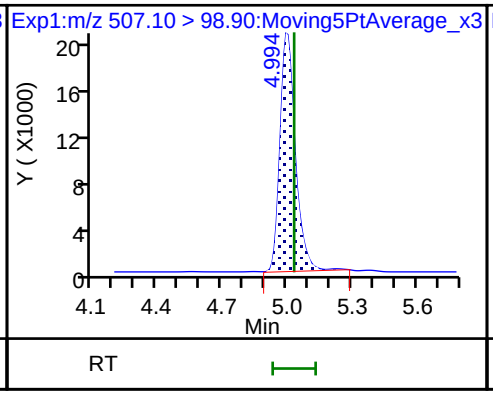

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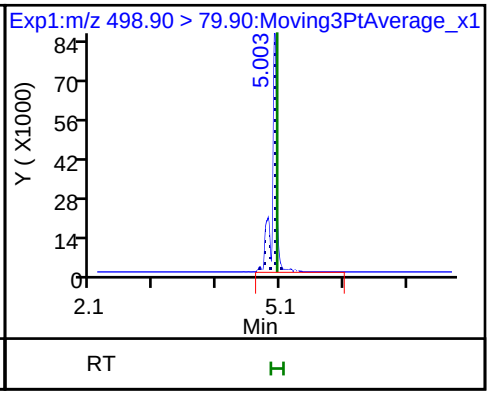

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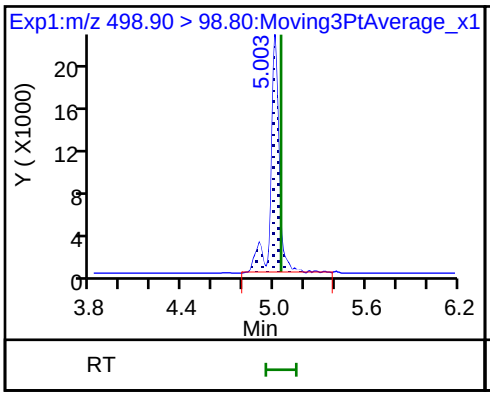

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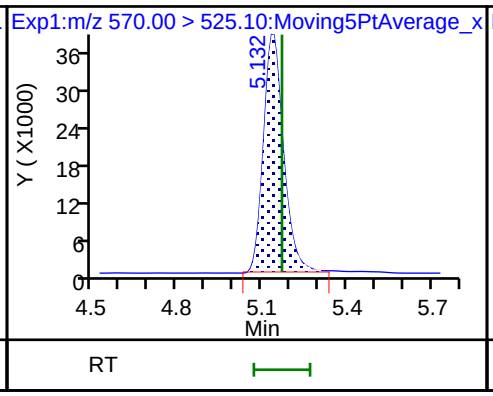

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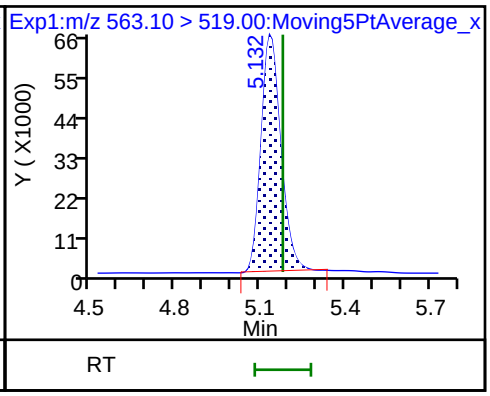

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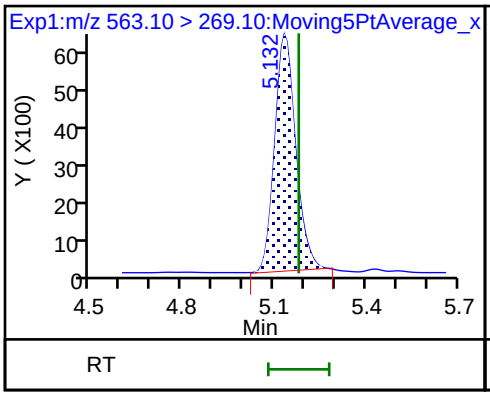

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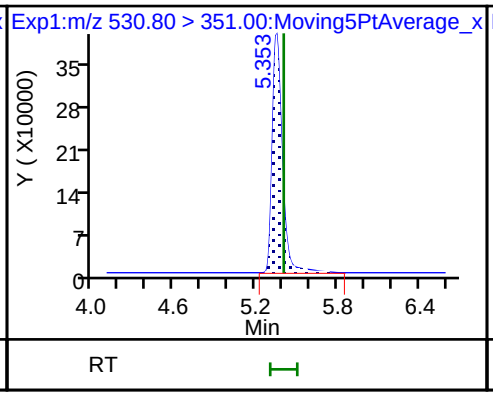

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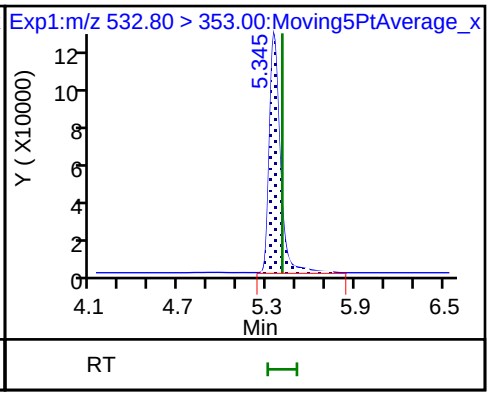

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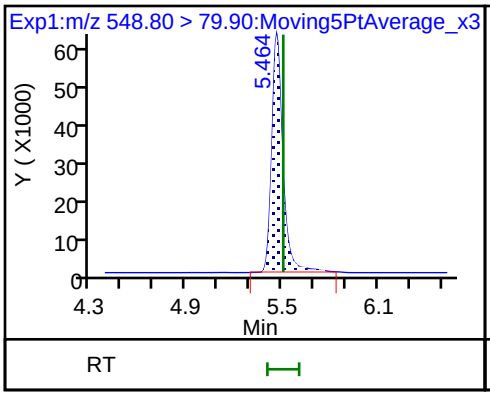

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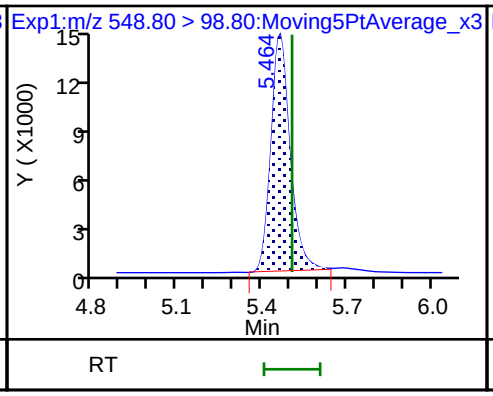

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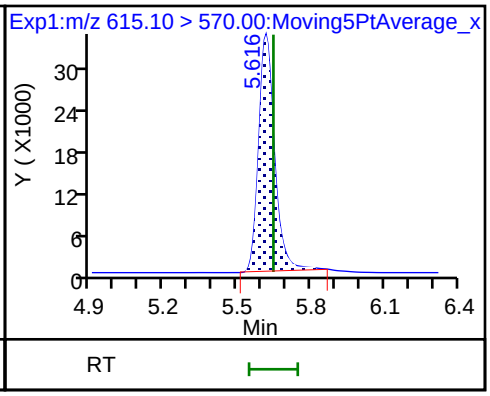

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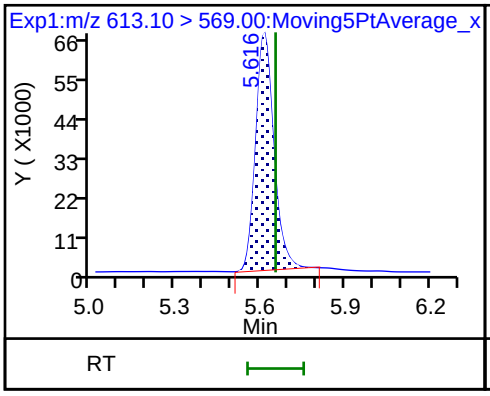

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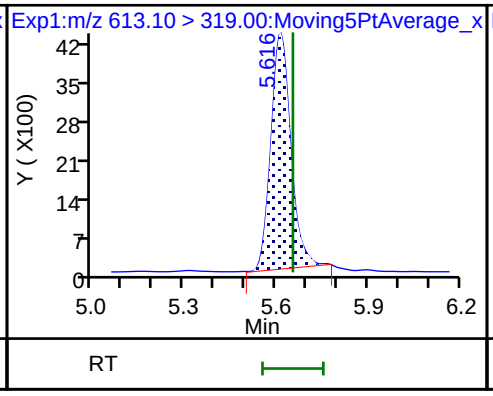

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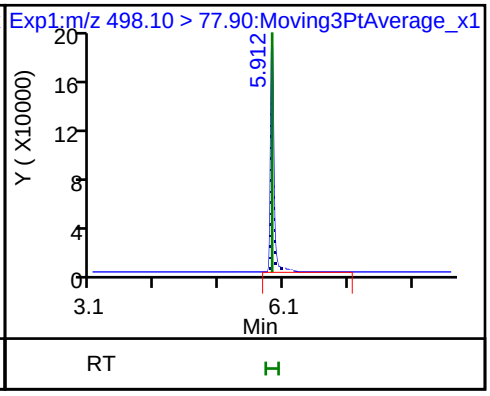

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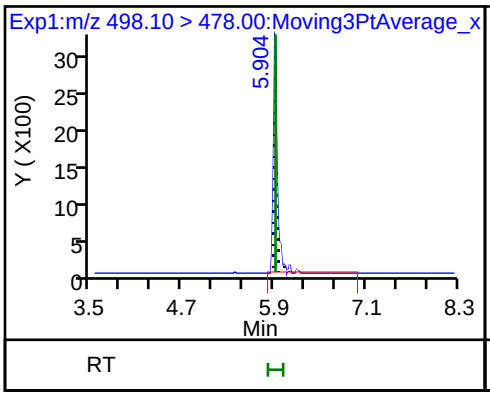

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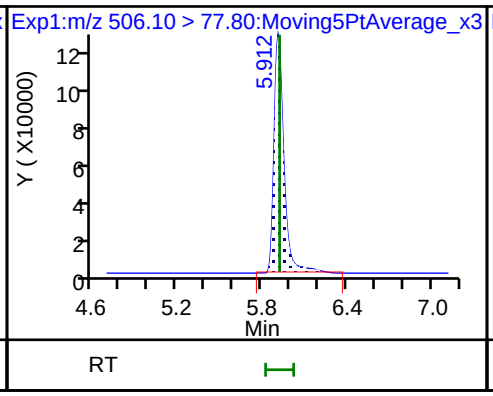

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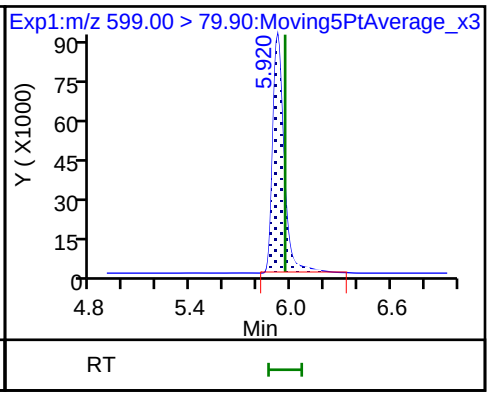

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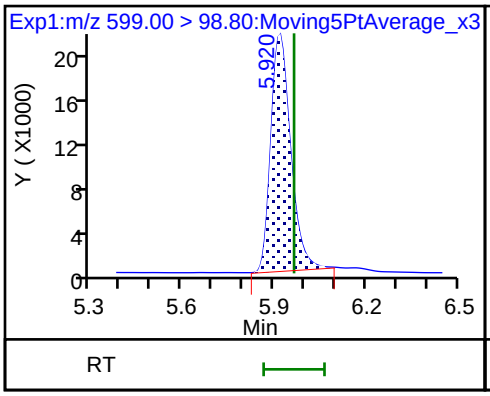

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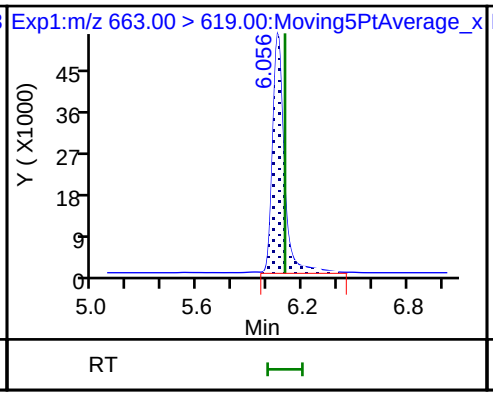

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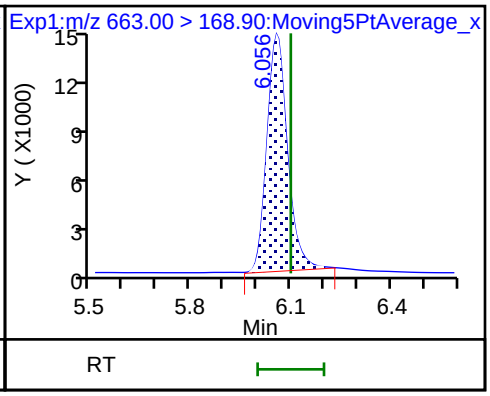

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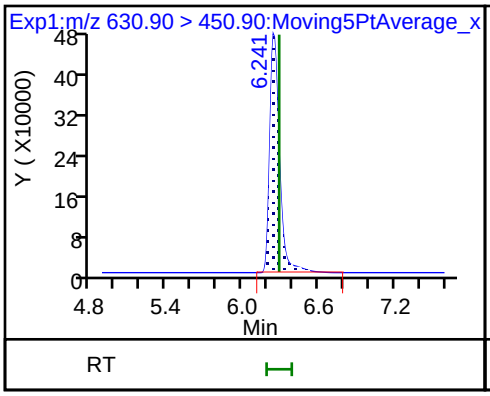
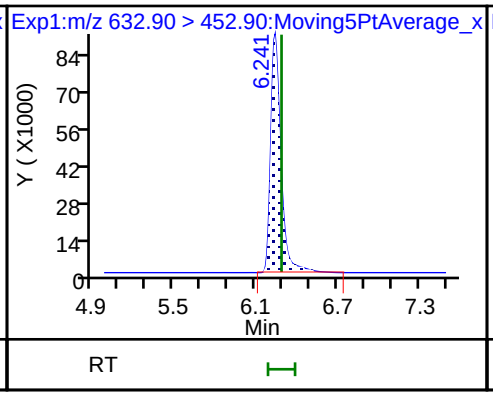
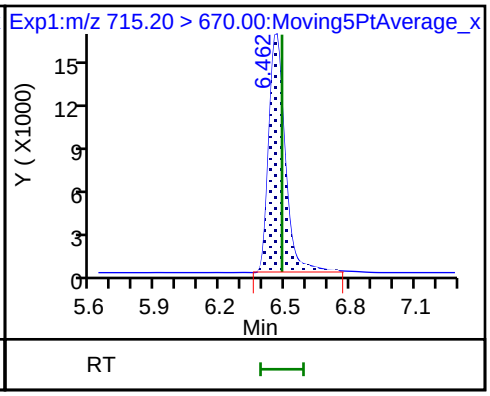


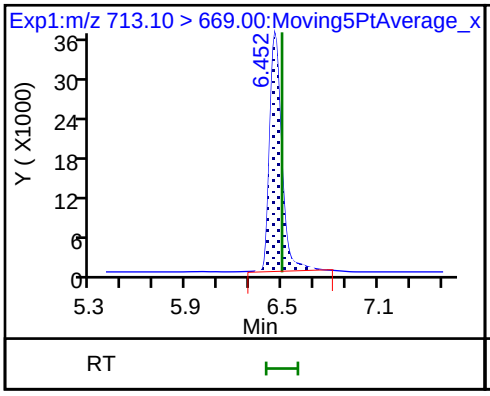
63 11ClFOS



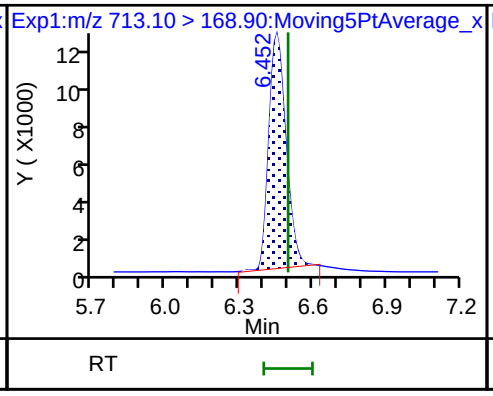
D 65 13C2 PFTeDA



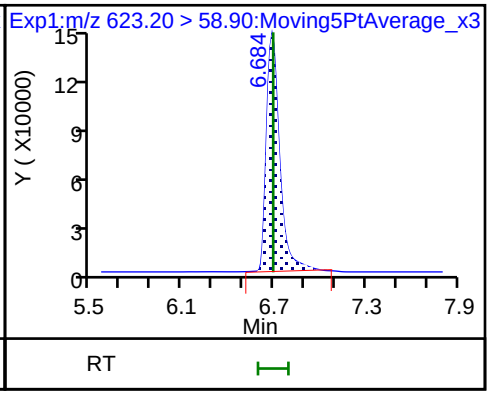
64 PFTeDA



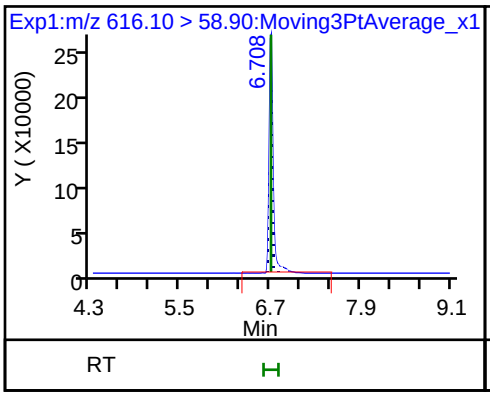
64 PFTeDA



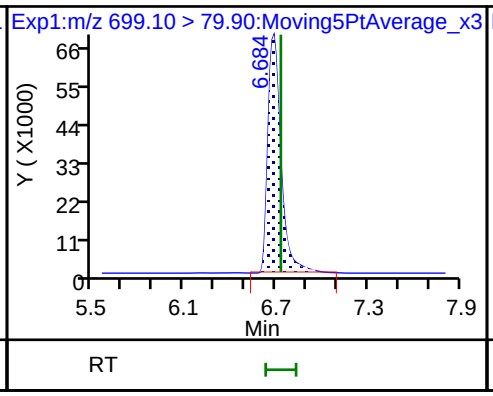
D 67 d7-N-Me-FOSE



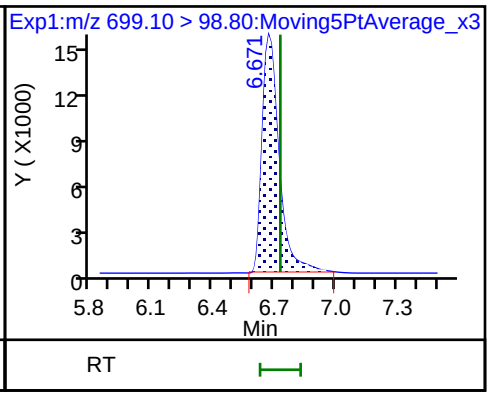
68 N-MeFOSE-M



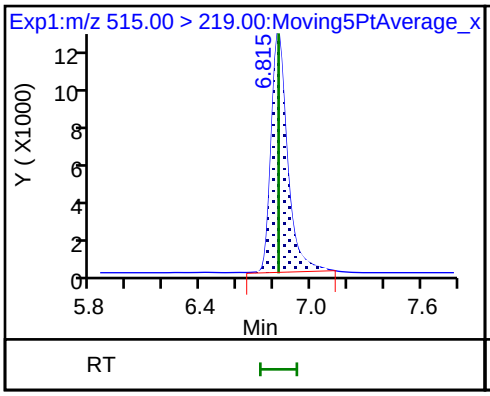
66 PFDoS



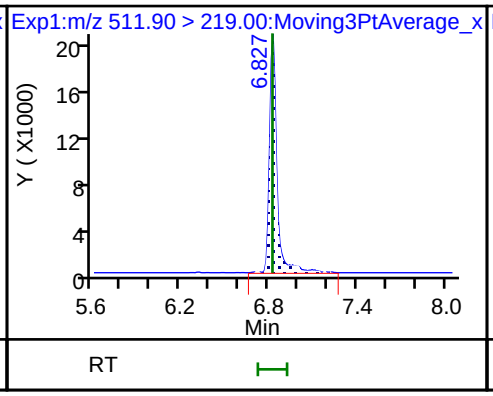
66 PFDoS



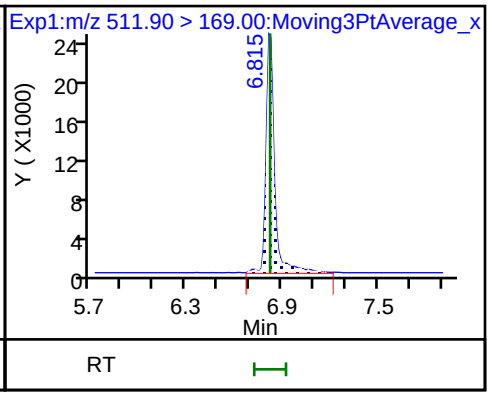
D 69 d3-NMePFOSA



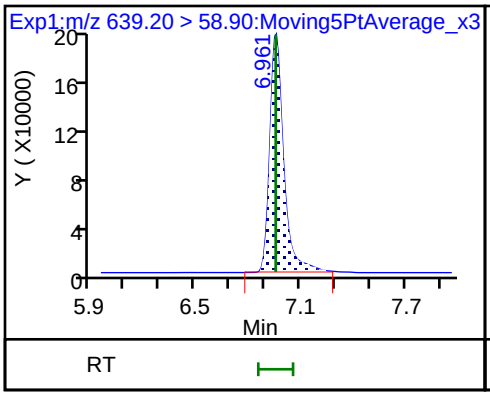
70 NMeFOSA



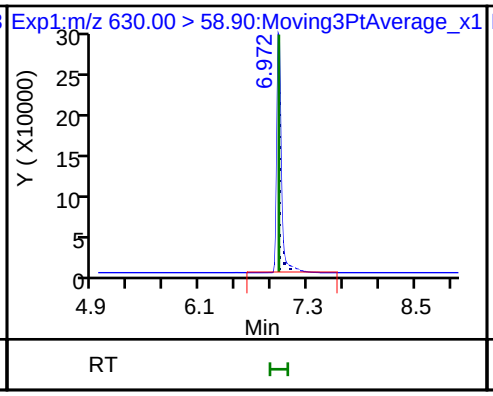
70 NMeFOSA



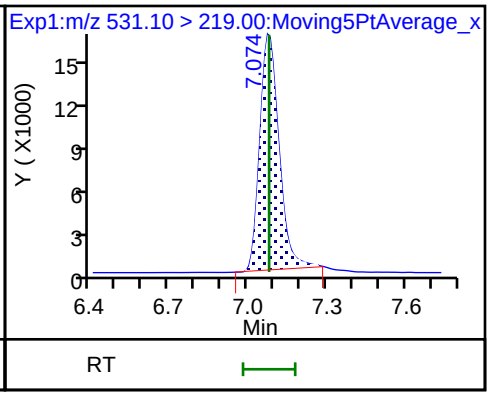
D 71 d9-N-EtFOSE



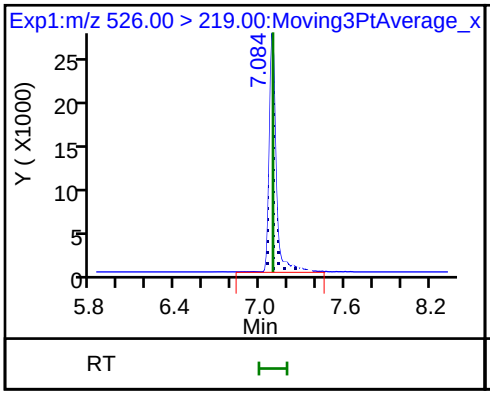
72 N-EtFOSE-M



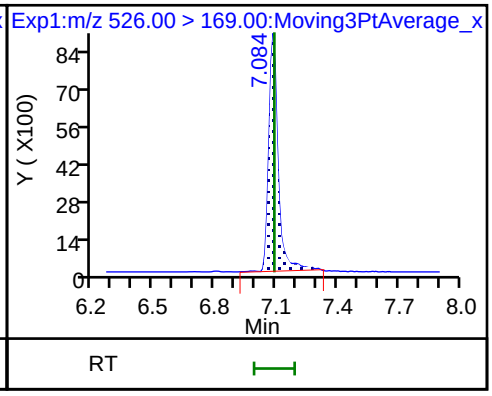
D 73 d5-NEtPFOSA



74 N-EtFOSA-M



74 N-EtFOSA-M



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

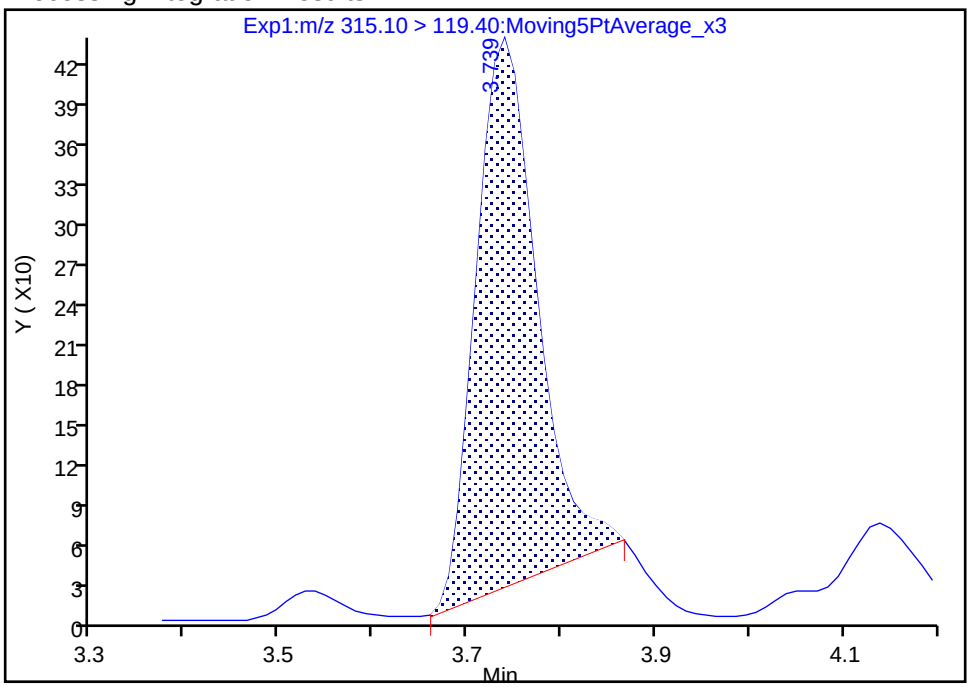
Data File:	\\chromfs\Lancaster\ChromData\30729\20230808-90889.b\23AUG08-58.d				
Injection Date:	08-Aug-2023 22:58:22	Instrument ID:	30729		
Lims ID:	460-282979-A-1-C MSD				
Client ID:	AD38758-001				
Operator ID:	US19_USR_INS20263	ALS Bottle#:	43	Worklist Smp#:	53
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	PFAS_30729_1633	Limit Group:	LC - 1633 ICAL		
Column:		Detector	EXP1		

* 15 13C2 PFHxA, CAS: STL00993

Signal: 2

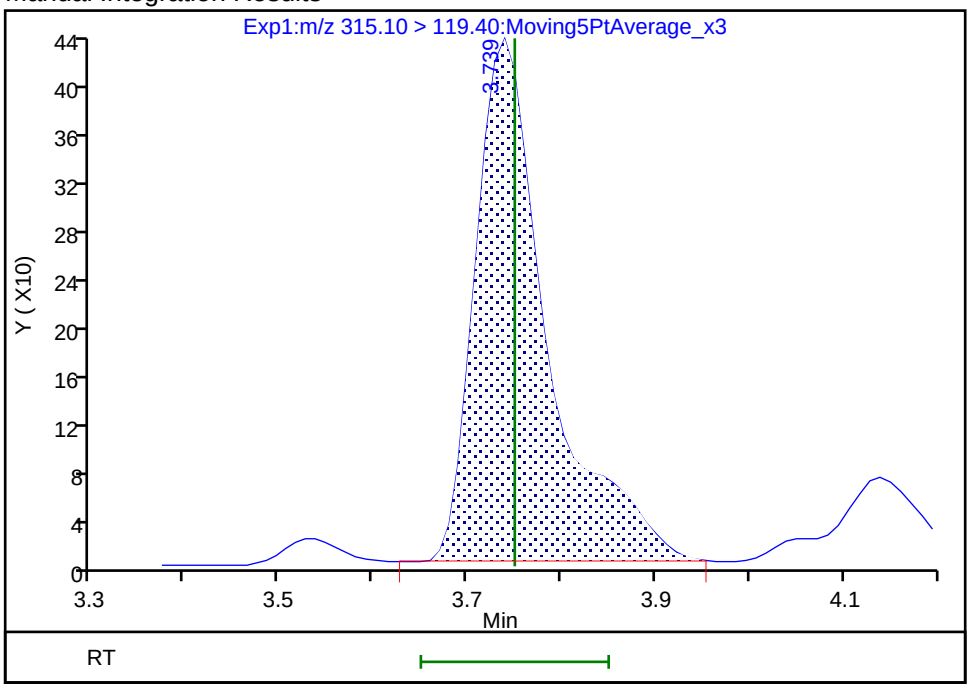
Processing Integration Results

RT: 3.74
Area: 1865
Amount: 2.500000
Amount Units: ng/ml



Manual Integration Results

RT: 3.74
Area: 2315
Amount: 2.500000
Amount Units: ng/ml



Reviewer: QY4X, 09-Aug-2023 09:25:31 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

PFAS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 460-282979-1

SDG No.:

Instrument ID: 30729 Start Date: 08/05/2023 09:27

Analysis Batch Number: 404842 End Date: 08/05/2023 11:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 410-404842/2		08/05/2023 09:27	1	23AUG05DCAL-02.d	Gemini C18 50mm 3(mm)
IC 410-404842/3		08/05/2023 09:40	1	23AUG05DCAL-03.d	Gemini C18 50mm 3(mm)
IC 410-404842/4		08/05/2023 09:53	1	23AUG05DCAL-04.d	Gemini C18 50mm 3(mm)
ICISAV 410-404842/5		08/05/2023 10:06	1	23AUG05DCAL-05.d	Gemini C18 50mm 3(mm)
IC 410-404842/6		08/05/2023 10:19	1	23AUG05DCAL-06.d	Gemini C18 50mm 3(mm)
IC 410-404842/7		08/05/2023 10:33	1	23AUG05DCAL-07.d	Gemini C18 50mm 3(mm)
ICB 410-404842/8		08/05/2023 10:46	1	23AUG05DCAL-08.d	Gemini C18 50mm 3(mm)
WDM 410-404842/10		08/05/2023 11:12	1	23AUG05DCAL-10.d	Gemini C18 50mm 3(mm)
IC 410-404842/1		08/05/2023 11:25	1	23AUG05DCAL-11.d	Gemini C18 50mm 3(mm)
ICV 410-404842/9		08/05/2023 11:38	1	23AUG05DCAL-12.d	Gemini C18 50mm 3(mm)

1633

PFAS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 460-282979-1

SDG No.:

Instrument ID: 30729 Start Date: 08/08/2023 11:38

Analysis Batch Number: 405691 End Date: 08/09/2023 06:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVO 410-405691/1		08/08/2023 11:38	1	23AUG08-06.d	Gemini C18 50mm 3(mm)
CCV 410-405691/2		08/08/2023 11:51	1		Gemini C18 50mm 3(mm)
WDM 410-405691/3		08/08/2023 12:04	1	23AUG08-08.d	Gemini C18 50mm 3(mm)
CCB 410-405691/4		08/08/2023 12:17	1		Gemini C18 50mm 3(mm)
ZZZZZ		08/08/2023 12:56	1		Gemini C18 50mm 3(mm)
CCV 410-405691/8		08/08/2023 13:09	1		Gemini C18 50mm 3(mm)
CCB 410-405691/9		08/08/2023 13:22	1		Gemini C18 50mm 3(mm)
CCV 410-405691/23		08/08/2023 16:25	1		Gemini C18 50mm 3(mm)
CCB 410-405691/24		08/08/2023 16:38	1		Gemini C18 50mm 3(mm)
CCV 410-405691/35		08/08/2023 19:02	1	23AUG08-40.d	Gemini C18 50mm 3(mm)
CCB 410-405691/36		08/08/2023 19:15	1	23AUG08-41.d	Gemini C18 50mm 3(mm)
MB 410-397379/1-A		08/08/2023 21:52	1	23AUG08-53.d	Gemini C18 50mm 3(mm)
LCS 410-397379/2-A		08/08/2023 22:06	1	23AUG08-54.d	Gemini C18 50mm 3(mm)
LLCS 410-397379/3-A		08/08/2023 22:19	1	23AUG08-55.d	Gemini C18 50mm 3(mm)
460-282979-1	AD38758-001	08/08/2023 22:32	1	23AUG08-56.d	Gemini C18 50mm 3(mm)
460-282979-1 MS	AD38758-001 MS	08/08/2023 22:45	1	23AUG08-57.d	Gemini C18 50mm 3(mm)
460-282979-1 MSD	AD38758-001 MSD	08/08/2023 22:58	1	23AUG08-58.d	Gemini C18 50mm 3(mm)
CCV 410-405691/54		08/08/2023 23:11	1	23AUG08-59.d	Gemini C18 50mm 3(mm)
CCB 410-405691/55		08/08/2023 23:24	1	23AUG08-60.d	Gemini C18 50mm 3(mm)
460-282979-2	AD38758-004	08/08/2023 23:37	1	23AUG08-61.d	Gemini C18 50mm 3(mm)
460-282979-3	AD38758-005	08/08/2023 23:50	1	23AUG08-62.d	Gemini C18 50mm 3(mm)
ZZZZZ		08/09/2023 00:03	1		Gemini C18 50mm 3(mm)
ZZZZZ		08/09/2023 00:16	1		Gemini C18 50mm 3(mm)
ZZZZZ		08/09/2023 00:29	1		Gemini C18 50mm 3(mm)
ZZZZZ		08/09/2023 00:43	1		Gemini C18 50mm 3(mm)
ZZZZZ		08/09/2023 00:56	1		Gemini C18 50mm 3(mm)
ZZZZZ		08/09/2023 01:09	1		Gemini C18 50mm 3(mm)
ZZZZZ		08/09/2023 01:22	1		Gemini C18 50mm 3(mm)
ZZZZZ		08/09/2023 01:35	1		Gemini C18 50mm 3(mm)
CCV 410-405691/66		08/09/2023 01:48	1	23AUG08-71.d	Gemini C18 50mm 3(mm)
CCB 410-405691/67		08/09/2023 02:01	1	23AUG08-72.d	Gemini C18 50mm 3(mm)
ZZZZZ		08/09/2023 02:14	1		Gemini C18 50mm 3(mm)
ZZZZZ		08/09/2023 02:27	1		Gemini C18 50mm 3(mm)
ZZZZZ		08/09/2023 02:40	1		Gemini C18 50mm 3(mm)
ZZZZZ		08/09/2023 02:53	1		Gemini C18 50mm 3(mm)
ZZZZZ		08/09/2023 03:06	1		Gemini C18 50mm 3(mm)
ZZZZZ		08/09/2023 03:19	1		Gemini C18 50mm 3(mm)
CCV 410-405691/80		08/09/2023 04:51	1		Gemini C18 50mm 3(mm)
CCB 410-405691/81		08/09/2023 05:04	1		Gemini C18 50mm 3(mm)
CCV 410-405691/86		08/09/2023 06:10	1		Gemini C18 50mm 3(mm)
CCB 410-405691/87		08/09/2023 06:23	1		Gemini C18 50mm 3(mm)

PFAS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 460-282979-1

SDG No.:

Batch Number: 397379 Batch Start Date: 07/17/23 07:22 Batch Analyst: Stephan, Jamie

Batch Method: 1633 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	PFC_1633_LOW 00036
MB 410-397379/1		1633, 1633		1000 g	500 g	500 mL	5 mL		
LCS 410-397379/2		1633, 1633		1000 g	500 g	500 mL	5 mL		
LLCS 410-397379/3		1633, 1633		1000 g	500 g	500 mL	5 mL		400 uL
460-282979-A-1	AD38758-001	1633, 1633	T	298.74 g	33.30 g	265.4 mL	5 mL	7 SU	
460-282979-A-1 MS	AD38758-001	1633, 1633	T	299.52 g	33.33 g	266.2 mL	5 mL	7 SU	
460-282979-A-1 MSD	AD38758-001	1633, 1633	T	305.06 g	32.46 g	272.6 mL	5 mL	7 SU	
460-282979-A-2	AD38758-004	1633, 1633	T	296.31 g	32.96 g	263.4 mL	5 mL	7 SU	
460-282979-A-3	AD38758-005	1633, 1633	T	292.06 g	34.32 g	257.7 mL	5 mL	7 SU	

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_1633_MID 00042	PFC_1633_SS 00067	AnalysisComment			
MB 410-397379/1		1633, 1633			25 uL				
LCS 410-397379/2		1633, 1633		200 uL	25 uL				
LLCS 410-397379/3		1633, 1633			25 uL				
460-282979-A-1	AD38758-001	1633, 1633	T		25 uL	limited sample, sample brought to 250mL with MQ			
460-282979-A-1 MS	AD38758-001	1633, 1633	T	200 uL	25 uL	limited sample, sample brought to 250mL with MQ			
460-282979-A-1 MSD	AD38758-001	1633, 1633	T	200 uL	25 uL	limited sample, sample brought to 250mL with MQ			
460-282979-A-2	AD38758-004	1633, 1633	T		25 uL	limited sample, sample brought to 250mL with MQ			
460-282979-A-3	AD38758-005	1633, 1633	T		25 uL	limited sample, sample brought to 250mL with MQ			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PFAS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 460-282979-1

SDG No.:

Batch Number: 397379 Batch Start Date: 07/17/23 07:22 Batch Analyst: Stephan, Jamie

Batch Method: 1633 Batch End Date:

Batch Notes	
pH Indicator ID	10BDH5021
Manifold ID	1633 #1, 1633 #2
SPE Cartridge Type	wax
SPE Cartridge Lot ID	S23-002939
Balance ID	C125996498
Pipette/Syringe/Dispenser ID	P10-9, PFAS 15,8
Pipette Tip Lot ID	L207750Q
Methanol ID	230920
H2O ID	House A372
Solvent Name	1% NH4OH:MeOH
Solvent Lot #	9509507142333A
Rinse Solvent Name	1:1 0.1M Formic:MeOH
Rinse Solvent Lot	2009407102333B
Acid used for pH adjustment	50% Formic
Acid Used for pH Adjustment ID	9509507052333B
Base used for pH adjustment	28-30% NH4OH
Base Used to Adjust pH ID	2023031520
Acetic Acid ID	MKCQ9790
Analyst ID - Reagent Drop	JAS 87367
Analyst ID - Reagent Drop Witness	AJF 95095
Centrifuge Tube ID	20220322-058
QC Bottle Lot ID	0330801H
Glass Wool ID	14721999
Batch Comment	tube check: AJF 95095

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PFAS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 460-282979-1

SDG No.:

Batch Number: 404842 Batch Start Date: 08/05/23 09:27 Batch Analyst: Dolman, Christine E

Batch Method: 1633 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_ICV_1633 00011	PFC_LB_1633 00013	PFC_ST 02171	PFC_ST 02214	PFC_STD1_1633 00008	PFC_STD2_1633 00007
IC 410-404842/1		1633						1 mL	
IC 410-404842/2		1633							1 mL
IC 410-404842/3		1633							
IC 410-404842/4		1633							
ICISAV 410-404842/5		1633							
IC 410-404842/6		1633							
IC 410-404842/7		1633							
ICB 410-404842/8		1633				5 uL	5 uL		
ICV 410-404842/9		1633		1 mL					
WDM 410-404842/10		1633			1 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFC_STD3_1633 00007	PFC_STD4_1633 00012	PFC_STD5_1633 00008	PFC_STD6_1633 00010	PFC_STD7_1633 00006	
IC 410-404842/1		1633							
IC 410-404842/2		1633							
IC 410-404842/3		1633		1 mL					
IC 410-404842/4		1633			1 mL				
ICISAV 410-404842/5		1633				1 mL			
IC 410-404842/6		1633					1 mL		
IC 410-404842/7		1633						1 mL	
ICB 410-404842/8		1633							
ICV 410-404842/9		1633							
WDM 410-404842/10		1633							

Batch Notes	
Mobil Phase ID	9113207182333A/222883

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PFAS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 460-282979-1

SDG No.:

Batch Number: 404842 Batch Start Date: 08/05/23 09:27 Batch Analyst: Dolman, Christine E

Batch Method: 1633 Batch End Date:

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Job Number: 460-282979-1

SDG No.:

Project: 3062308 8628

Client Sample ID	Lab Sample ID
AD38758-001	460-282979-1
AD38758-004	460-282979-2

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: AD38758-001 Lab Sample ID: 460-282979-1

Lab Name: Eurofins Lancaster Laboratories Environment T Job No.: 460-282979-1

SDG ID.:

Matrix: Water Date Sampled: 06/22/2023 13:22

Reporting Basis: WET Date Received: 06/23/2023 15:50

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Total Suspended Solids	60.0	3.0		mg/L			1	1633 DRAFT

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: AD38758-004 Lab Sample ID: 460-282979-2

Lab Name: Eurofins Lancaster Laboratories Environment T Job No.: 460-282979-1

SDG ID.:

Matrix: Water Date Sampled: 06/22/2023 00:00

Reporting Basis: WET Date Received: 06/23/2023 15:50

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Total Suspended Solids	60.0	3.0		mg/L			1	1633 DRAFT

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Job Number: 460-282979-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: 1633 DRAFT RL Date: 04/26/2018 13:51

Analyte	Wavelength/ Mass	RL (mg/L)	
Total Suspended Solids		3	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Job Number: 460-282979-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: 1633 DRAFT XMDL Date: 04/26/2018 08:41

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Suspended Solids		3	1

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Lancaster Laboratories Job No.: 460-282979-1

SDG No.:

Instrument ID: NOEQUIP Method: 1633 DRAFT

Start Date: 06/27/2023 11:23 End Date: 06/27/2023 11:23

Lab Sample ID	D/F	Type	Time	Analytes																			
				TSS																			
460-282979-2	1	T	11:23	X																			
460-282979-1	1	T	11:23	X																			
ZZZZZZ			11:23																				
ZZZZZZ			11:23																				
ZZZZZZ			11:23																				
ZZZZZZ			11:23																				
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ZZZZZZ			11:23																				
ZZZZZZ			11:23																				

Prep Types
T = Total/NA

General Chemistry Raw Data Report

Job ID: 460-282979-1

Batch: 391245 **Analyst Initials: M98K**

Method: 1633 DRAFT **Instrument: NONE**

Lab Sample ID: 460-282979-B-2 **Analysis Date: Jun 27, 2023 11:23**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Suspended Solids	None	1	59.9999999999989	mg/L	10 mL	10 mL

Lab Sample ID: 460-282979-B-1 **Analysis Date: Jun 27, 2023 11:23**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Total Suspended Solids	None	1	59.9999999999989	mg/L	10 mL	10 mL

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 460-282979-1

SDG No.:

Batch Number: 391245 Batch Start Date: 06/27/23 11:23 Batch Analyst: Sanchez, Alexa S

Batch Method: 1633 DRAFT Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Residue	FinalAmount
460-282979-B-2	AD38758-004	1633 DRAFT	T	a	0.1218 g	10 mL	0.1224 g	0.0006 g	10 mL
460-282979-B-1	AD38758-001	1633 DRAFT	T	b	0.1203 g	10 mL	0.1209 g	0.0006 g	10 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	ResDishWt	DishWeight				
460-282979-B-2	AD38758-004	1633 DRAFT	T	0.1224 g	0.1218 g				
460-282979-B-1	AD38758-001	1633 DRAFT	T	0.1209 g	0.1203 g				

Batch Notes	
Perform Calculation (0=No, 1=Yes)	1
Nominal Amount Used	10 mL
Balance ID	27505
Oven ID	9966
Thermometer ID	1020

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

CHAIN OF CUSTODY RECORD

282979

Hampton-Clarke, Inc.
175 US Hwy 46 West
Fairfield, New Jersey 0700
Ph:800-426-9992 Fax:973-439

460-282979 Chain of Custody

3062308 8628

Report To:	Invoice To:
Hampton-Clarke, Inc.	Hampton-Clarke, Inc.
Attn Reporting	Attn.Accounting
175 Route 46 West	175 Route 46 West
Fairfield, New Jersey 07004	Fairfield, New Jersey 07004

FINAL RESULTS TO: subresults@hcvlab.com
PRELIM/VERBAL RESULTS TO: subresults@hcvlab.com

EDD: NEW JERSEY HAZRESULT OR EQUIS EZEDD REQUIRED FOR ALL DATA SUBMITTALS!

Turn Around Time: Standard **Preliminary Due Date:** 7/10/2023
Report Type: NYDOH-CatB (FULL) **Hard Copy Due Date:** 7/19/2023

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Sample Number:	Client ID	Matrix:	Date Collected	Time Collected	Analysis Requested
AD38758-001	MW-2_6 22 23	Aqueous	6/22/2023	1 22 00 PM	PFAS EPA 1633
AD38758-002	MW-2_6 22 23-MS	Aqueous	6/22/2023	1 22 00 PM	PFAS EPA 1633
AD38758-003	MW-2_6 22 23-MSD	Aqueous	6/22/2023	1 22 00 PM	PFAS EPA 1633
AD38758-004	DUP-1	Aqueous	6/22/2023		PFAS EPA 1633
AD38758-005	Field Blank	Aqueous	6/22/2023	2 00 00 PM	PFAS EPA 1633

Relinquished By:	Accepted By:	Date:	Time:	Comments, Notes, Special Requirements, HAZARDS
[signature]	[signature]	6/23/23	2 00	MK 06/23/23
[signature]	Vamta Patel	6/23/23	3 50	

Cooler Temp:_____

HC Lab Use Only **Subcontracted Lab Id and Contact:** TA-Edison, Elizabeth Flannery (732) 549-3900, LabID: House, 777 New Durham Road, Edison NJ, 08817

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 182979

Number of Coolers: 1 IR Gun # 9

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	1.9 °C	°C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted _____

Preservative Name/Conc. _____ Volume of Preservative used (ml). _____

Lot # of Preservative(s) _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-036, Rev 4.1
10/22/2019

Initials: VP Date: 06/23/23

Eurofins Edison
777 New Durham Road
Edison, NJ 08817
Phone: 732-549-3900 Fax: 732-549-3679

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Flannery, Elizabeth J	Carrier Tracking No(s):	COC No: 460-68521.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Elizabeth.Flannery@et.eurofinsus.com	State of Origin: New York	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): NELAP - New Jersey; NELAP - New York		Job #: 460-282979-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 7/10/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: 3062308 8628	Project #: 46037196			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1633/1633_SPE List of 40 (EPA 1633 Draft Method)	1633_DRAFT_TSS/ Percent Suspend Solids for Analysis PFAS	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
AD38758-001 (460-282979-1)	6/22/23	13:22 Eastern		Water			X	X	2	
AD38758-001 (460-282979-1MS)	6/22/23	13:22 Eastern	MS	Water			X	X	2	
AD38758-001 (460-282979-1MSD)	6/22/23	13:22 Eastern	MSD	Water			X	X	2	
AD38758-004 (460-282979-2)	6/22/23	Eastern		Water			X	X	2	
AD38758-005 (460-282979-3)	6/22/23	14:00 Eastern		Water			X		2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 1	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		6/26/23 1555	[illegible]	Bam	6/26/23 1555	[illegible]
2	Bm	6/26/23 1855	[illegible]			
3					6/26/23 1855	[illegible]

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.: not present	Cooler Temperature(s) °C and Other Remarks: 2.0/1.8

Login Sample Receipt Checklist

Client: Hampton-Clarke Veritech

Job Number: 460-282979-1

Login Number: 282979
List Number: 1
Creator: Rivera, Kenneth

List Source: Eurofins Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Hampton-Clarke Veritech

Job Number: 460-282979-1

Login Number: 282979
List Number: 2
Creator: Wrye, Shaun

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 06/26/23 11:22 PM

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

Hampton-Clarke
Analytical & Field Services

175 US Highway 46, STE D · Fairfield, NJ 07004-2327
2 Madison Road, Fairfield, NJ 07004-2327
800-426-9992 · 973-244-9770
FAX: 973-244-9787
WWW.HCVLAB.COM

Project: 510 Liberty Street

Client PO: MOH1000.P2

Report To: HRP Associates. Inc.
1 Fairchild Square
Suite 110
Clifton Park, NY 12065
Attn: Mark Wright

Received Date: 6/23/2023

Report Date: 8/2/2023

Deliverables: NYDOH-CatB

Lab ID: AD38798

Lab Project No: 3062404

Sean Berls - Quality Assurance Officer OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

Table of Contents - 3062404

SDG Narrative

HC Case Narrative

Client: HRP Associates
Project: 510 Liberty Street

HC Project: 3062404

Hampton-Clarke (HC) received the following samples on 6/23/2023:

Client ID	HC Sample ID	Matrix	Analysis
MW-1_6.22.23	AD38798-001	Aqueous	PAH 8270E, Metals 6020B/7470A, Volatile Organics 8260D
MW-2_6.22.23	AD38798-002	Aqueous	Semivolatile Organics (8270E), Base Neutral (SIM) 8270E, Herbicides 8151A, Metals 6020B/7470A, PCB 8082A, Pesticides 8081B, Volatile Organics 8260D
MW-3_6.22.23	AD38798-003	Aqueous	PAH 8270E, Metals 6020B/7470A, Volatile Organics 8260D
MW-2_6.22.23-MS	AD38798-004	Aqueous	Semivolatile Organics (8270E), Herbicides 8151A, Metals 6020B/7470A, PCB 8082A, Pesticides 8081B, Volatile Organics 8260D
MW-2_6.22.23-MSD	AD38798-005	Aqueous	Semivolatile Organics (8270E), Herbicides 8151A, Metals 6020B/7470A, PCB 8082A, Pesticides 8081B, Volatile Organics 8260D
DUP-1	AD38798-006	Aqueous	Semivolatile Organics (8270E), Base Neutral (SIM) 8270E, Herbicides 8151A, Metals 6020B/7470A, PCB 8082A, Pesticides 8081B, Volatile Organics 8260D
Field Blank	AD38798-007	Aqueous	Semivolatile Organics (8270E), Base Neutral (SIM) 8270E, Herbicides 8151A, Metals 6020B/7470A, PCB 8082A, Pesticides 8081B, Volatile Organics 8260D

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

Methylene chloride and Acetone was recovered in sample AD38798-007 due to possible laboratory contamination.

The Matrix Spike and/or Matrix Spike Duplicate for batch 110098 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Base Neutral/Acid Extractable Analysis:

The Matrix Spike for batch 109448 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

PCB Analysis:

The Matrix Spike and/or Matrix Spike Duplicate for batch 109472 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Pesticide Analysis:

Data conforms to method requirements.

Herbicide Analysis:

Data conforms to method requirements.

Metals Analysis:

The Post Spike, Matrix Spike and/or Matrix Spike Duplicate for batch 107918 had recoveries outside QC limits. Please refer to the applicable Form 5/7 for the recoveries.

The serial dilution for batch 107918 is outside QC limits for one or more analytes. Please refer to the applicable Form 6/9 for the recoveries.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Sean Berls
Quality Assurance Officer

Or

Jean Revolus
Laboratory Director

8/3/23
Date

Reporting Limit Definitions

HC Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

DUP = Duplicate

LCS = Laboratory Control Spike

MBS = Method Blank Spike

MDL = Method Detection Limit

MR = Matrix Replicate

MS = Matrix Spike

MSD = Matrix Spike Duplicate

NA = Not Applicable

ND = Not Detected

PS = Post Digestion Spike

RL* = Reporting Limit

RT = Retention Time

SD = Serial Dilution

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

A- Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

B- Indicates analyte was present in the Method Blank and sample.

d- For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

E- Indicates the concentration exceeded the upper calibration range of the instrument.

J- Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

R- Retention Time is out.

Y- Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

Data Package Summary Forms

HC Report of Analysis

Client: HRP Associates. Inc.
Project: 510 Liberty Street

HC Project #: 3062404

Sample ID: MW-1_6.22.23
Lab#: AD38798-001
Matrix: Aqueous

Collection Date: 6/22/2023
Receipt Date: 6/23/2023

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.50	ND

PAH Compounds 8270

Analyte	DF	Units	RL	Result
2-Methylnaphthalene	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Phenanthrene	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

PP Metals 6020B

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	3.0	ND
Arsenic	1	ug/l	2.0	ND
Beryllium	1	ug/l	1.0	ND
Cadmium	1	ug/l	2.0	ND
Chromium	**1**	**ug/l**	**2.0**	**2.2**
Copper	1	ug/l	10	ND
Lead	**1**	**ug/l**	**3.0**	**12**
Nickel	1	ug/l	3.0	ND
Selenium	1	ug/l	10	ND
Silver	1	ug/l	1.0	ND
Thallium	1	ug/l	2.0	ND
Zinc	1	ug/l	20	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND

Sample ID: MW-1_6.22.23 **Collection Date:** 6/22/2023
Lab#: AD38798-001 **Receipt Date:** 6/23/2023
Matrix: Aqueous

1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.66	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: MW-2_6.22.23 **Collection Date:** 6/22/2023
Lab#: AD38798-002 **Receipt Date:** 6/23/2023
Matrix: Aqueous

Base Neutral/Acid Extract (SIM).8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.10	ND

Chlorinated Herbicides 8151

Analyte	DF	Units	RL	Result
2,4,5-T	1	ug/l	0.47	ND
2,4-D	1	ug/l	0.47	ND
Dicamba	1	ug/l	0.47	ND
Silvex	1	ug/l	0.48	ND

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.50	ND

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
a-Chlordane	1	ug/l	0.010	ND
Aldrin	1	ug/l	0.010	ND
Alpha-BHC	1	ug/l	0.010	ND
beta-BHC	1	ug/l	0.010	ND
Chlordane (Total)	1	ug/l	0.010	ND
delta-BHC	1	ug/l	0.010	ND
Dieldrin	1	ug/l	0.010	ND
Endosulfan I	1	ug/l	0.010	ND
Endosulfan II	1	ug/l	0.010	ND
Endosulfan Sulfate	1	ug/l	0.010	ND
Endrin	1	ug/l	0.010	ND
Endrin Aldehyde	1	ug/l	0.010	ND
Endrin Ketone	1	ug/l	0.010	ND
gamma-BHC	1	ug/l	0.010	ND
Heptachlor	1	ug/l	0.010	ND
Heptachlor Epoxide	1	ug/l	0.010	ND
Methoxychlor	1	ug/l	0.015	ND
p,p'-DDD	1	ug/l	0.010	ND
p,p'-DDE	1	ug/l	0.010	ND
p,p'-DDT	1	ug/l	0.010	ND
Toxaphene	1	ug/l	0.26	ND
y-Chlordane	1	ug/l	0.010	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.26	ND
Aroclor-1016	1	ug/l	0.26	ND
Aroclor-1221	1	ug/l	0.26	ND
Aroclor-1232	1	ug/l	0.26	ND
Aroclor-1242	1	ug/l	0.26	ND
Aroclor-1248	1	ug/l	0.26	ND
Aroclor-1254	1	ug/l	0.26	ND
Aroclor-1260	1	ug/l	0.26	ND
Aroclor-1262	1	ug/l	0.26	ND
Aroclor-1268	1	ug/l	0.26	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.0	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.0	ND

Sample ID:	**MW-2_6.22.23**
Lab#:	**AD38798-002**
Matrix:	**Aqueous**
Collection Date:	**6/22/2023**
Receipt Date:	**6/23/2023**

2,3,4,6-Tetrachlorophenol	1	ug/l	2.0	ND
2,4,5-Trichlorophenol	1	ug/l	2.0	ND
2,4,6-Trichlorophenol	1	ug/l	2.0	ND
2,4-Dichlorophenol	1	ug/l	0.62	ND
2,4-Dimethylphenol	1	ug/l	1.1	ND
2,4-Dinitrophenol	1	ug/l	10	ND
2,4-Dinitrotoluene	1	ug/l	2.0	ND
2,6-Dinitrotoluene	1	ug/l	2.0	ND
2-Chloronaphthalene	1	ug/l	2.0	ND
2-Chlorophenol	1	ug/l	2.0	ND
2-Methylnaphthalene	1	ug/l	2.0	ND
2-Methylphenol	1	ug/l	0.59	ND
2-Nitroaniline	1	ug/l	2.0	ND
2-Nitrophenol	1	ug/l	2.0	ND
3&4-Methylphenol	1	ug/l	0.64	ND
3,3'-Dichlorobenzidine	1	ug/l	2.0	ND
3-Nitroaniline	1	ug/l	2.0	ND
4,6-Dinitro-2-methylphenol	1	ug/l	10	ND
4-Bromophenyl-phenylether	1	ug/l	2.0	ND
4-Chloro-3-methylphenol	1	ug/l	2.0	ND
4-Chloroaniline	1	ug/l	0.59	ND
4-Chlorophenyl-phenylether	1	ug/l	2.0	ND
4-Nitroaniline	1	ug/l	2.0	ND
4-Nitrophenol	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Acetophenone	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Atrazine	1	ug/l	2.0	ND
Benzaldehyde	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.0	ND
bis(2-Chloroethyl)ether	1	ug/l	0.51	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.0	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.0	ND
Butylbenzylphthalate	1	ug/l	2.0	ND
Caprolactam	1	ug/l	2.0	ND
Carbazole	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Dibenzofuran	1	ug/l	0.59	ND
Diethylphthalate	1	ug/l	2.0	ND
Dimethylphthalate	1	ug/l	2.0	ND
Di-n-butylphthalate	1	ug/l	0.72	ND
Di-n-octylphthalate	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Hexachlorobenzene	1	ug/l	2.0	ND
Hexachlorobutadiene	1	ug/l	2.0	ND
Hexachlorocyclopentadiene	1	ug/l	6.8	ND
Hexachloroethane	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Isophorone	1	ug/l	2.0	ND

Sample ID: MW-2_6.22.23 **Collection Date:** 6/22/2023
Lab#: AD38798-002 **Receipt Date:** 6/23/2023
Matrix: Aqueous

Naphthalene	1	ug/l	0.50	ND
Nitrobenzene	1	ug/l	2.0	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.61	ND
N-Nitrosodiphenylamine	1	ug/l	2.0	ND
Pentachlorophenol	1	ug/l	10	ND
Phenanthrene	1	ug/l	2.0	ND
Phenol	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Aluminum	1	ug/l	200	ND
Antimony	1	ug/l	3.0	ND
Arsenic	1	ug/l	2.0	ND
Barium	**1**	**ug/l**	**5.0**	**66**
Beryllium	1	ug/l	1.0	ND
Cadmium	1	ug/l	2.0	ND
Calcium	**1**	**ug/l**	**500**	**94000**
Chromium	1	ug/l	2.0	ND
Cobalt	1	ug/l	2.0	ND
Copper	1	ug/l	10	ND
Iron	1	ug/l	300	ND
Lead	1	ug/l	3.0	ND
Magnesium	**1**	**ug/l**	**500**	**16000**
Manganese	**1**	**ug/l**	**6.0**	**360**
Nickel	1	ug/l	3.0	ND
Potassium	**1**	**ug/l**	**500**	**2500**
Selenium	1	ug/l	10	ND
Silver	1	ug/l	1.0	ND
Sodium	**1**	**ug/l**	**500**	**150000**
Thallium	1	ug/l	2.0	ND
Vanadium	1	ug/l	2.0	ND
Zinc	1	ug/l	20	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.66	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND

Sample ID: MW-2_6.22.23 **Collection Date:** 6/22/2023
Lab#: AD38798-002 **Receipt Date:** 6/23/2023
Matrix: Aqueous

Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: MW-3_6.22.23 **Collection Date:** 6/22/2023
Lab#: AD38798-003 **Receipt Date:** 6/23/2023
Matrix: Aqueous

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.50	ND

PAH Compounds 8270

Analyte	DF	Units	RL	Result
2-Methylnaphthalene	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Phenanthrene	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

PP Metals 6020B

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	3.0	ND
Arsenic	**1**	**ug/l**	**2.0**	**2.0**
Beryllium	1	ug/l	1.0	ND
Cadmium	1	ug/l	2.0	ND
Chromium	1	ug/l	2.0	ND
Copper	1	ug/l	10	ND
Lead	**1**	**ug/l**	**3.0**	**5.7**
Nickel	1	ug/l	3.0	ND
Selenium	1	ug/l	10	ND
Silver	1	ug/l	1.0	ND
Thallium	1	ug/l	2.0	ND
Zinc	1	ug/l	20	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.66	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND

Sample ID: MW-3_6.22.23 **Collection Date:** 6/22/2023
Lab#: AD38798-003 **Receipt Date:** 6/23/2023
Matrix: Aqueous

2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: MW-2_6.22.23-MS
Lab#: AD38798-004
Matrix: Aqueous

Collection Date: 6/22/2023
Receipt Date: 6/23/2023

Chlorinated Herbicides 8151

Analyte	DF	Units	RL	Result
2,4,5-T	1	ug/l	0.47	3.1
2,4-D	1	ug/l	0.47	3.3
Dicamba	1	ug/l	0.47	3.2
Silvex	1	ug/l	0.48	3.3

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.50	9.8

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
a-Chlordane	1	ug/l	0.010	0.52
Aldrin	1	ug/l	0.010	0.47
Alpha-BHC	1	ug/l	0.010	0.49
beta-BHC	1	ug/l	0.010	0.49
Chlordane (Total)	1	ug/l	0.010	0.98
delta-BHC	1	ug/l	0.010	0.48
Dieldrin	1	ug/l	0.010	0.49
Endosulfan I	1	ug/l	0.010	0.52
Endosulfan II	1	ug/l	0.010	0.53
Endosulfan Sulfate	1	ug/l	0.010	0.50
Endrin	1	ug/l	0.010	0.53
Endrin Aldehyde	1	ug/l	0.010	0.55
Endrin Ketone	1	ug/l	0.010	0.52
gamma-BHC	1	ug/l	0.010	0.49
Heptachlor	1	ug/l	0.010	0.50
Heptachlor Epoxide	1	ug/l	0.010	0.51
Methoxychlor	1	ug/l	0.015	0.50
p,p'-DDD	1	ug/l	0.010	0.55
p,p'-DDE	1	ug/l	0.010	0.54
p,p'-DDT	1	ug/l	0.010	0.48
Toxaphene	1	ug/l	0.26	ND
y-Chlordane	1	ug/l	0.010	0.46

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.26	16
Aroclor-1016	1	ug/l	0.26	7.5
Aroclor-1221	1	ug/l	0.26	ND
Aroclor-1232	1	ug/l	0.26	ND
Aroclor-1242	1	ug/l	0.26	ND
Aroclor-1248	1	ug/l	0.26	ND
Aroclor-1254	1	ug/l	0.26	ND
Aroclor-1260	1	ug/l	0.26	8.4
Aroclor-1262	1	ug/l	0.26	ND
Aroclor-1268	1	ug/l	0.26	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.0	93
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.0	93
1,4-Dioxane	1	ug/l	0.50	49
2,3,4,6-Tetrachlorophenol	1	ug/l	2.0	99
2,4,5-Trichlorophenol	1	ug/l	2.0	98
2,4,6-Trichlorophenol	1	ug/l	2.0	100

Sample ID:	MW-2_6.22.23-MS
Lab#:	AD38798-004
Matrix:	Aqueous
Collection Date:	6/22/2023
Receipt Date:	6/23/2023

2,4-Dichlorophenol	1	ug/l	0.62	90
2,4-Dimethylphenol	1	ug/l	1.1	71
2,4-Dinitrophenol	1	ug/l	10	110
2,4-Dinitrotoluene	1	ug/l	2.0	100
2,6-Dinitrotoluene	1	ug/l	2.0	98
2-Chloronaphthalene	1	ug/l	2.0	89
2-Chlorophenol	1	ug/l	2.0	75
2-Methylnaphthalene	1	ug/l	2.0	97
2-Methylphenol	1	ug/l	0.59	67
2-Nitroaniline	1	ug/l	2.0	81
2-Nitrophenol	1	ug/l	2.0	95
3&4-Methylphenol	1	ug/l	0.64	65
3,3'-Dichlorobenzidine	1	ug/l	2.0	66
3-Nitroaniline	1	ug/l	2.0	110
4,6-Dinitro-2-methylphenol	1	ug/l	10	110
4-Bromophenyl-phenylether	1	ug/l	2.0	97
4-Chloro-3-methylphenol	1	ug/l	2.0	92
4-Chloroaniline	1	ug/l	0.59	120
4-Chlorophenyl-phenylether	1	ug/l	2.0	96
4-Nitroaniline	1	ug/l	2.0	94
4-Nitrophenol	1	ug/l	2.0	39
Acenaphthene	1	ug/l	2.0	94
Acenaphthylene	1	ug/l	2.0	100
Acetophenone	1	ug/l	2.0	94
Anthracene	1	ug/l	2.0	94
Atrazine	1	ug/l	2.0	97
Benzaldehyde	1	ug/l	2.0	54
Benzo[a]anthracene	1	ug/l	2.0	95
Benzo[a]pyrene	1	ug/l	2.0	100
Benzo[b]fluoranthene	1	ug/l	2.0	110
Benzo[g,h,i]perylene	1	ug/l	2.0	97
Benzo[k]fluoranthene	1	ug/l	2.0	110
bis(2-Chloroethoxy)methane	1	ug/l	2.0	86
bis(2-Chloroethyl)ether	1	ug/l	0.51	75
bis(2-Chloroisopropyl)ether	1	ug/l	2.0	55
bis(2-Ethylhexyl)phthalate	1	ug/l	2.0	100
Butylbenzylphthalate	1	ug/l	2.0	110
Caprolactam	1	ug/l	2.0	39
Carbazole	1	ug/l	2.0	100
Chrysene	1	ug/l	2.0	95
Dibenzo[a,h]anthracene	1	ug/l	2.0	100
Dibenzofuran	1	ug/l	0.59	96
Diethylphthalate	1	ug/l	2.0	97
Dimethylphthalate	1	ug/l	2.0	92
Di-n-butylphthalate	1	ug/l	0.72	110
Di-n-octylphthalate	1	ug/l	2.0	100
Fluoranthene	1	ug/l	2.0	100
Fluorene	1	ug/l	2.0	96
Hexachlorobenzene	1	ug/l	2.0	93
Hexachlorobutadiene	1	ug/l	2.0	83
Hexachlorocyclopentadiene	1	ug/l	6.8	96
Hexachloroethane	1	ug/l	2.0	77
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	100
Isophorone	1	ug/l	2.0	78
Naphthalene	1	ug/l	0.50	82
Nitrobenzene	1	ug/l	2.0	88
N-Nitroso-di-n-propylamine	1	ug/l	0.61	85

Sample ID: MW-2_6.22.23-MS
Lab#: AD38798-004
Matrix: Aqueous
Collection Date: 6/22/2023
Receipt Date: 6/23/2023

N-Nitrosodiphenylamine	1	ug/l	2.0	74
Pentachlorophenol	1	ug/l	10	110
Phenanthrene	1	ug/l	2.0	95
Phenol	1	ug/l	2.0	36
Pyrene	1	ug/l	2.0	98

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Aluminum	1	ug/l	200	5300
Antimony	1	ug/l	3.0	470
Arsenic	1	ug/l	2.0	540
Barium	1	ug/l	5.0	530
Beryllium	1	ug/l	1.0	480
Cadmium	1	ug/l	2.0	460
Calcium	1	ug/l	500	160000
Chromium	1	ug/l	2.0	560
Cobalt	1	ug/l	2.0	540
Copper	1	ug/l	10	530
Iron	1	ug/l	300	5700
Lead	1	ug/l	3.0	460
Magnesium	1	ug/l	500	72000
Manganese	1	ug/l	6.0	990
Nickel	1	ug/l	3.0	520
Potassium	1	ug/l	500	54000
Selenium	1	ug/l	10	520
Silver	1	ug/l	1.0	84
Sodium	1	ug/l	500	200000
Thallium	1	ug/l	2.0	460
Vanadium	1	ug/l	2.0	500
Zinc	1	ug/l	20	510

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	11
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	8.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	23
1,1,2-Trichloroethane	1	ug/l	1.0	9.6
1,1-Dichloroethane	1	ug/l	1.0	10
1,1-Dichloroethene	1	ug/l	1.0	10
1,2,3-Trichlorobenzene	1	ug/l	1.0	8.3
1,2,4-Trichlorobenzene	1	ug/l	1.0	8.7
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	9.3
1,2-Dibromoethane	1	ug/l	1.0	10
1,2-Dichlorobenzene	1	ug/l	1.0	9.4
1,2-Dichloroethane	1	ug/l	0.66	12
1,2-Dichloropropane	1	ug/l	1.0	11
1,3-Dichlorobenzene	1	ug/l	1.0	9.3
1,4-Dichlorobenzene	1	ug/l	1.0	8.8
1,4-Dioxane	1	ug/l	50	1100
2-Butanone	1	ug/l	1.0	35
2-Hexanone	1	ug/l	1.0	34
4-Methyl-2-pentanone	1	ug/l	1.0	36
Acetone	1	ug/l	5.0	120
Benzene	1	ug/l	0.50	11
Bromochloromethane	1	ug/l	1.0	12
Bromodichloromethane	1	ug/l	1.0	12
Bromoform	1	ug/l	1.0	8.7

Sample ID:	**MW-2_6.22.23-MS**			**Collection Date:**	**6/22/2023**
Lab#:	**AD38798-004**			**Receipt Date:**	**6/23/2023**
Matrix:	**Aqueous**				

Bromomethane	1	ug/l	1.0	12
Carbon disulfide	1	ug/l	1.0	26
Carbon tetrachloride	1	ug/l	1.0	11
Chlorobenzene	1	ug/l	1.0	9.6
Chloroethane	1	ug/l	1.0	14
Chloroform	1	ug/l	1.0	11
Chloromethane	1	ug/l	1.0	5.1
cis-1,2-Dichloroethene	1	ug/l	1.0	12
cis-1,3-Dichloropropene	1	ug/l	1.0	9.1
Cyclohexane	1	ug/l	1.0	24
Dibromochloromethane	1	ug/l	1.0	9.1
Dichlorodifluoromethane	1	ug/l	1.0	2.0
Ethylbenzene	1	ug/l	1.0	8.6
Isopropylbenzene	1	ug/l	1.0	9.5
m&p-Xylenes	1	ug/l	1.0	19
Methyl Acetate	1	ug/l	1.0	24
Methylcyclohexane	1	ug/l	1.0	24
Methylene chloride	1	ug/l	1.0	9.8
Methyl-t-butyl ether	1	ug/l	0.87	24
o-Xylene	1	ug/l	1.0	9.6
Styrene	1	ug/l	1.0	9.5
Tetrachloroethene	1	ug/l	1.0	8.8
Toluene	1	ug/l	1.0	9.7
trans-1,2-Dichloroethene	1	ug/l	1.0	9.8
trans-1,3-Dichloropropene	1	ug/l	1.0	9.1
Trichloroethene	1	ug/l	1.0	11
Trichlorofluoromethane	1	ug/l	1.0	19
Vinyl chloride	1	ug/l	1.0	9.1
Xylenes (Total)	1	ug/l	1.0	29

Sample ID: MW-2_6.22.23-MSD
Lab#: AD38798-005
Matrix: Aqueous

Collection Date: 6/22/2023
Receipt Date: 6/23/2023

Chlorinated Herbicides 8151

Analyte	DF	Units	RL	Result
2,4,5-T	1	ug/l	0.47	2.9
2,4-D	1	ug/l	0.47	3.1
Dicamba	1	ug/l	0.47	3.0
Silvex	1	ug/l	0.48	3.1

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.50	10

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
a-Chlordane	1	ug/l	0.010	0.50
Aldrin	1	ug/l	0.010	0.47
Alpha-BHC	1	ug/l	0.010	0.53
beta-BHC	1	ug/l	0.010	0.49
Chlordane (Total)	1	ug/l	0.010	0.94
delta-BHC	1	ug/l	0.010	0.46
Dieldrin	1	ug/l	0.010	0.48
Endosulfan I	1	ug/l	0.010	0.50
Endosulfan II	1	ug/l	0.010	0.53
Endosulfan Sulfate	1	ug/l	0.010	0.50
Endrin	1	ug/l	0.010	0.51
Endrin Aldehyde	1	ug/l	0.010	0.56
Endrin Ketone	1	ug/l	0.010	0.52
gamma-BHC	1	ug/l	0.010	0.50
Heptachlor	1	ug/l	0.010	0.49
Heptachlor Epoxide	1	ug/l	0.010	0.49
Methoxychlor	1	ug/l	0.014	0.52
p,p'-DDD	1	ug/l	0.010	0.53
p,p'-DDE	1	ug/l	0.010	0.52
p,p'-DDT	1	ug/l	0.010	0.49
Toxaphene	1	ug/l	0.25	ND
y-Chlordane	1	ug/l	0.010	0.44

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	16
Aroclor-1016	1	ug/l	0.25	7.7
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	8.5
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.0	88
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.0	89
1,4-Dioxane	1	ug/l	0.50	42
2,3,4,6-Tetrachlorophenol	1	ug/l	2.0	97
2,4,5-Trichlorophenol	1	ug/l	2.0	99
2,4,6-Trichlorophenol	1	ug/l	2.0	100

Sample ID:	MW-2_6.22.23-MSD
Lab#:	AD38798-005
Matrix:	Aqueous
Collection Date:	6/22/2023
Receipt Date:	6/23/2023

2,4-Dichlorophenol	1	ug/l	0.62	92
2,4-Dimethylphenol	1	ug/l	1.1	80
2,4-Dinitrophenol	1	ug/l	10	110
2,4-Dinitrotoluene	1	ug/l	2.0	100
2,6-Dinitrotoluene	1	ug/l	2.0	96
2-Chloronaphthalene	1	ug/l	2.0	88
2-Chlorophenol	1	ug/l	2.0	79
2-Methylnaphthalene	1	ug/l	2.0	93
2-Methylphenol	1	ug/l	0.59	72
2-Nitroaniline	1	ug/l	2.0	80
2-Nitrophenol	1	ug/l	2.0	93
3&4-Methylphenol	1	ug/l	0.64	68
3,3'-Dichlorobenzidine	1	ug/l	2.0	85
3-Nitroaniline	1	ug/l	2.0	100
4,6-Dinitro-2-methylphenol	1	ug/l	10	110
4-Bromophenyl-phenylether	1	ug/l	2.0	96
4-Chloro-3-methylphenol	1	ug/l	2.0	97
4-Chloroaniline	1	ug/l	0.59	110
4-Chlorophenyl-phenylether	1	ug/l	2.0	95
4-Nitroaniline	1	ug/l	2.0	92
4-Nitrophenol	1	ug/l	2.0	40
Acenaphthene	1	ug/l	2.0	92
Acenaphthylene	1	ug/l	2.0	98
Acetophenone	1	ug/l	2.0	91
Anthracene	1	ug/l	2.0	94
Atrazine	1	ug/l	2.0	94
Benzaldehyde	1	ug/l	2.0	53
Benzo[a]anthracene	1	ug/l	2.0	93
Benzo[a]pyrene	1	ug/l	2.0	100
Benzo[b]fluoranthene	1	ug/l	2.0	100
Benzo[g,h,i]perylene	1	ug/l	2.0	95
Benzo[k]fluoranthene	1	ug/l	2.0	100
bis(2-Chloroethoxy)methane	1	ug/l	2.0	84
bis(2-Chloroethyl)ether	1	ug/l	0.51	76
bis(2-Chloroisopropyl)ether	1	ug/l	2.0	54
bis(2-Ethylhexyl)phthalate	1	ug/l	2.0	100
Butylbenzylphthalate	1	ug/l	2.0	100
Caprolactam	1	ug/l	2.0	36
Carbazole	1	ug/l	2.0	98
Chrysene	1	ug/l	2.0	93
Dibenzo[a,h]anthracene	1	ug/l	2.0	98
Dibenzofuran	1	ug/l	0.59	94
Diethylphthalate	1	ug/l	2.0	96
Dimethylphthalate	1	ug/l	2.0	92
Di-n-butylphthalate	1	ug/l	0.72	110
Di-n-octylphthalate	1	ug/l	2.0	100
Fluoranthene	1	ug/l	2.0	100
Fluorene	1	ug/l	2.0	95
Hexachlorobenzene	1	ug/l	2.0	92
Hexachlorobutadiene	1	ug/l	2.0	80
Hexachlorocyclopentadiene	1	ug/l	6.8	100
Hexachloroethane	1	ug/l	2.0	74
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	98
Isophorone	1	ug/l	2.0	77
Naphthalene	1	ug/l	0.50	80
Nitrobenzene	1	ug/l	2.0	85
N-Nitroso-di-n-propylamine	1	ug/l	0.61	85

Sample ID: MW-2_6.22.23-MSD
Lab#: AD38798-005
Matrix: Aqueous
Collection Date: 6/22/2023
Receipt Date: 6/23/2023

N-Nitrosodiphenylamine	1	ug/l	2.0	77
Pentachlorophenol	1	ug/l	10	100
Phenanthrene	1	ug/l	2.0	92
Phenol	1	ug/l	2.0	35
Pyrene	1	ug/l	2.0	94

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Aluminum	1	ug/l	200	4800
Antimony	1	ug/l	3.0	500
Arsenic	1	ug/l	2.0	480
Barium	1	ug/l	5.0	550
Beryllium	1	ug/l	1.0	510
Cadmium	1	ug/l	2.0	490
Calcium	1	ug/l	500	160000
Chromium	1	ug/l	2.0	510
Cobalt	1	ug/l	2.0	480
Copper	1	ug/l	10	470
Iron	1	ug/l	300	5200
Lead	1	ug/l	3.0	480
Magnesium	1	ug/l	500	66000
Manganese	1	ug/l	6.0	890
Nickel	1	ug/l	3.0	470
Potassium	1	ug/l	500	49000
Selenium	1	ug/l	10	470
Silver	1	ug/l	1.0	89
Sodium	1	ug/l	500	200000
Thallium	1	ug/l	2.0	470
Vanadium	1	ug/l	2.0	490
Zinc	1	ug/l	20	470

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	12
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	8.8
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	25
1,1,2-Trichloroethane	1	ug/l	1.0	10
1,1-Dichloroethane	1	ug/l	1.0	12
1,1-Dichloroethene	1	ug/l	1.0	11
1,2,3-Trichlorobenzene	1	ug/l	1.0	9.1
1,2,4-Trichlorobenzene	1	ug/l	1.0	9.8
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	10
1,2-Dibromoethane	1	ug/l	1.0	11
1,2-Dichlorobenzene	1	ug/l	1.0	10
1,2-Dichloroethane	1	ug/l	0.66	13
1,2-Dichloropropane	1	ug/l	1.0	12
1,3-Dichlorobenzene	1	ug/l	1.0	11
1,4-Dichlorobenzene	1	ug/l	1.0	9.8
1,4-Dioxane	1	ug/l	50	1200
2-Butanone	1	ug/l	1.0	32
2-Hexanone	1	ug/l	1.0	39
4-Methyl-2-pentanone	1	ug/l	1.0	37
Acetone	1	ug/l	5.0	130
Benzene	1	ug/l	0.50	12
Bromochloromethane	1	ug/l	1.0	13
Bromodichloromethane	1	ug/l	1.0	13
Bromoform	1	ug/l	1.0	9.7

Sample ID:	**MW-2_6.22.23-MSD**			**Collection Date:**	**6/22/2023**
Lab#:	**AD38798-005**			**Receipt Date:**	**6/23/2023**
Matrix:	**Aqueous**				

Bromomethane	1	ug/l	1.0	14
Carbon disulfide	1	ug/l	1.0	28
Carbon tetrachloride	1	ug/l	1.0	13
Chlorobenzene	1	ug/l	1.0	10
Chloroethane	1	ug/l	1.0	16
Chloroform	1	ug/l	1.0	12
Chloromethane	1	ug/l	1.0	5.8
cis-1,2-Dichloroethene	1	ug/l	1.0	12
cis-1,3-Dichloropropene	1	ug/l	1.0	10
Cyclohexane	1	ug/l	1.0	27
Dibromochloromethane	1	ug/l	1.0	10
Dichlorodifluoromethane	1	ug/l	1.0	2.3
Ethylbenzene	1	ug/l	1.0	9.9
Isopropylbenzene	1	ug/l	1.0	11
m&p-Xylenes	1	ug/l	1.0	21
Methyl Acetate	1	ug/l	1.0	24
Methylcyclohexane	1	ug/l	1.0	26
Methylene chloride	1	ug/l	1.0	11
Methyl-t-butyl ether	1	ug/l	0.87	25
o-Xylene	1	ug/l	1.0	10
Styrene	1	ug/l	1.0	10
Tetrachloroethene	1	ug/l	1.0	9.6
Toluene	1	ug/l	1.0	11
trans-1,2-Dichloroethene	1	ug/l	1.0	11
trans-1,3-Dichloropropene	1	ug/l	1.0	9.9
Trichloroethene	1	ug/l	1.0	12
Trichlorofluoromethane	1	ug/l	1.0	21
Vinyl chloride	1	ug/l	1.0	10
Xylenes (Total)	1	ug/l	1.0	31

Sample ID: DUP-1 **Collection Date:** 6/22/2023
Lab#: AD38798-006 **Receipt Date:** 6/23/2023
Matrix: Aqueous

Base Neutral/Acid Extract (SIM).8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.10	ND

Chlorinated Herbicides 8151

Analyte	DF	Units	RL	Result
2,4,5-T	1	ug/l	0.47	ND
2,4-D	1	ug/l	0.47	ND
Dicamba	1	ug/l	0.47	ND
Silvex	1	ug/l	0.48	ND

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.50	ND

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
a-Chlordane	1	ug/l	0.010	ND
Aldrin	1	ug/l	0.010	ND
Alpha-BHC	1	ug/l	0.010	ND
beta-BHC	1	ug/l	0.010	ND
Chlordane (Total)	1	ug/l	0.010	ND
delta-BHC	1	ug/l	0.010	ND
Dieldrin	1	ug/l	0.010	ND
Endosulfan I	1	ug/l	0.010	ND
Endosulfan II	1	ug/l	0.010	ND
Endosulfan Sulfate	1	ug/l	0.010	ND
Endrin	1	ug/l	0.010	ND
Endrin Aldehyde	1	ug/l	0.010	ND
Endrin Ketone	1	ug/l	0.010	ND
gamma-BHC	1	ug/l	0.010	ND
Heptachlor	1	ug/l	0.010	ND
Heptachlor Epoxide	1	ug/l	0.010	ND
Methoxychlor	1	ug/l	0.015	ND
p,p'-DDD	1	ug/l	0.010	ND
p,p'-DDE	1	ug/l	0.010	ND
p,p'-DDT	1	ug/l	0.010	ND
Toxaphene	1	ug/l	0.25	ND
y-Chlordane	1	ug/l	0.010	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.0	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.0	ND

Sample ID: DUP-1	**Collection Date:** 6/22/2023
Lab#: AD38798-006	**Receipt Date:** 6/23/2023
Matrix: Aqueous	

2,3,4,6-Tetrachlorophenol	1	ug/l	2.0	ND
2,4,5-Trichlorophenol	1	ug/l	2.0	ND
2,4,6-Trichlorophenol	1	ug/l	2.0	ND
2,4-Dichlorophenol	1	ug/l	0.62	ND
2,4-Dimethylphenol	1	ug/l	1.1	ND
2,4-Dinitrophenol	1	ug/l	10	ND
2,4-Dinitrotoluene	1	ug/l	2.0	ND
2,6-Dinitrotoluene	1	ug/l	2.0	ND
2-Chloronaphthalene	1	ug/l	2.0	ND
2-Chlorophenol	1	ug/l	2.0	ND
2-Methylnaphthalene	1	ug/l	2.0	ND
2-Methylphenol	1	ug/l	0.59	ND
2-Nitroaniline	1	ug/l	2.0	ND
2-Nitrophenol	1	ug/l	2.0	ND
3&4-Methylphenol	1	ug/l	0.64	ND
3,3'-Dichlorobenzidine	1	ug/l	2.0	ND
3-Nitroaniline	1	ug/l	2.0	ND
4,6-Dinitro-2-methylphenol	1	ug/l	10	ND
4-Bromophenyl-phenylether	1	ug/l	2.0	ND
4-Chloro-3-methylphenol	1	ug/l	2.0	ND
4-Chloroaniline	1	ug/l	0.59	ND
4-Chlorophenyl-phenylether	1	ug/l	2.0	ND
4-Nitroaniline	1	ug/l	2.0	ND
4-Nitrophenol	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Acetophenone	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Atrazine	1	ug/l	2.0	ND
Benzaldehyde	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.0	ND
bis(2-Chloroethyl)ether	1	ug/l	0.51	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.0	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.0	ND
Butylbenzylphthalate	1	ug/l	2.0	ND
Caprolactam	1	ug/l	2.0	ND
Carbazole	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Dibenzofuran	1	ug/l	0.59	ND
Diethylphthalate	1	ug/l	2.0	ND
Dimethylphthalate	1	ug/l	2.0	ND
Di-n-butylphthalate	1	ug/l	0.72	ND
Di-n-octylphthalate	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Hexachlorobenzene	1	ug/l	2.0	ND
Hexachlorobutadiene	1	ug/l	2.0	ND
Hexachlorocyclopentadiene	1	ug/l	6.8	ND
Hexachloroethane	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Isophorone	1	ug/l	2.0	ND

Sample ID: DUP-1 **Collection Date:** 6/22/2023
Lab#: AD38798-006 **Receipt Date:** 6/23/2023
Matrix: Aqueous

Naphthalene	1	ug/l	0.50	ND
Nitrobenzene	1	ug/l	2.0	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.61	ND
N-Nitrosodiphenylamine	1	ug/l	2.0	ND
Pentachlorophenol	1	ug/l	10	ND
Phenanthrene	1	ug/l	2.0	ND
Phenol	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Aluminum	1	ug/l	200	ND
Antimony	1	ug/l	3.0	ND
Arsenic	1	ug/l	2.0	ND
Barium	**1**	**ug/l**	**5.0**	**66**
Beryllium	1	ug/l	1.0	ND
Cadmium	1	ug/l	2.0	ND
Calcium	**1**	**ug/l**	**500**	**100000**
Chromium	1	ug/l	2.0	ND
Cobalt	1	ug/l	2.0	ND
Copper	1	ug/l	10	ND
Iron	**1**	**ug/l**	**300**	**320**
Lead	1	ug/l	3.0	ND
Magnesium	**1**	**ug/l**	**500**	**17000**
Manganese	**1**	**ug/l**	**6.0**	**360**
Nickel	1	ug/l	3.0	ND
Potassium	**1**	**ug/l**	**500**	**2400**
Selenium	1	ug/l	10	ND
Silver	1	ug/l	1.0	ND
Sodium	**1**	**ug/l**	**500**	**150000**
Thallium	1	ug/l	2.0	ND
Vanadium	1	ug/l	2.0	ND
Zinc	1	ug/l	20	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.66	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND

Sample ID: DUP-1 **Collection Date:** 6/22/2023
Lab#: AD38798-006 **Receipt Date:** 6/23/2023
Matrix: Aqueous

Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: Field Blank
Lab#: AD38798-007
Matrix: Aqueous
Collection Date: 6/22/2023
Receipt Date: 6/23/2023

Base Neutral/Acid Extract (SIM).8270

Analyte	DF	Units	RL	Result
1,4-Dioxane	1	ug/l	0.10	ND

Chlorinated Herbicides 8151

Analyte	DF	Units	RL	Result
2,4,5-T	1	ug/l	0.47	ND
2,4-D	1	ug/l	0.47	ND
Dicamba	1	ug/l	0.47	ND
Silvex	1	ug/l	0.48	ND

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.50	ND

Organochlorine Pesticides 8081

Analyte	DF	Units	RL	Result
a-Chlordane	1	ug/l	0.010	ND
Aldrin	1	ug/l	0.010	ND
Alpha-BHC	1	ug/l	0.010	ND
beta-BHC	1	ug/l	0.010	ND
Chlordane (Total)	1	ug/l	0.010	ND
delta-BHC	1	ug/l	0.010	ND
Dieldrin	1	ug/l	0.010	ND
Endosulfan I	1	ug/l	0.010	ND
Endosulfan II	1	ug/l	0.010	ND
Endosulfan Sulfate	1	ug/l	0.010	ND
Endrin	1	ug/l	0.010	ND
Endrin Aldehyde	1	ug/l	0.010	ND
Endrin Ketone	1	ug/l	0.010	ND
gamma-BHC	1	ug/l	0.010	ND
Heptachlor	1	ug/l	0.010	ND
Heptachlor Epoxide	1	ug/l	0.010	ND
Methoxychlor	1	ug/l	0.015	ND
p,p'-DDD	1	ug/l	0.010	ND
p,p'-DDE	1	ug/l	0.010	ND
p,p'-DDT	1	ug/l	0.010	ND
Toxaphene	1	ug/l	0.26	ND
y-Chlordane	1	ug/l	0.010	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.26	ND
Aroclor-1016	1	ug/l	0.26	ND
Aroclor-1221	1	ug/l	0.26	ND
Aroclor-1232	1	ug/l	0.26	ND
Aroclor-1242	1	ug/l	0.26	ND
Aroclor-1248	1	ug/l	0.26	ND
Aroclor-1254	1	ug/l	0.26	ND
Aroclor-1260	1	ug/l	0.26	ND
Aroclor-1262	1	ug/l	0.26	ND
Aroclor-1268	1	ug/l	0.26	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.0	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.0	ND

Sample ID: Field Blank | **Collection Date:** 6/22/2023
Lab#: AD38798-007 | **Receipt Date:** 6/23/2023
Matrix: Aqueous

2,3,4,6-Tetrachlorophenol	1	ug/l	2.0	ND
2,4,5-Trichlorophenol	1	ug/l	2.0	ND
2,4,6-Trichlorophenol	1	ug/l	2.0	ND
2,4-Dichlorophenol	1	ug/l	0.62	ND
2,4-Dimethylphenol	1	ug/l	1.1	ND
2,4-Dinitrophenol	1	ug/l	10	ND
2,4-Dinitrotoluene	1	ug/l	2.0	ND
2,6-Dinitrotoluene	1	ug/l	2.0	ND
2-Chloronaphthalene	1	ug/l	2.0	ND
2-Chlorophenol	1	ug/l	2.0	ND
2-Methylnaphthalene	1	ug/l	2.0	ND
2-Methylphenol	1	ug/l	0.59	ND
2-Nitroaniline	1	ug/l	2.0	ND
2-Nitrophenol	1	ug/l	2.0	ND
3&4-Methylphenol	1	ug/l	0.64	ND
3,3'-Dichlorobenzidine	1	ug/l	2.0	ND
3-Nitroaniline	1	ug/l	2.0	ND
4,6-Dinitro-2-methylphenol	1	ug/l	10	ND
4-Bromophenyl-phenylether	1	ug/l	2.0	ND
4-Chloro-3-methylphenol	1	ug/l	2.0	ND
4-Chloroaniline	1	ug/l	0.59	ND
4-Chlorophenyl-phenylether	1	ug/l	2.0	ND
4-Nitroaniline	1	ug/l	2.0	ND
4-Nitrophenol	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Acetophenone	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Atrazine	1	ug/l	2.0	ND
Benzaldehyde	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	2.0	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.0	ND
bis(2-Chloroethyl)ether	1	ug/l	0.51	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.0	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.0	ND
Butylbenzylphthalate	1	ug/l	2.0	ND
Caprolactam	1	ug/l	2.0	ND
Carbazole	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Dibenzofuran	1	ug/l	0.59	ND
Diethylphthalate	1	ug/l	2.0	ND
Dimethylphthalate	1	ug/l	2.0	ND
Di-n-butylphthalate	1	ug/l	0.72	ND
Di-n-octylphthalate	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Hexachlorobenzene	1	ug/l	2.0	ND
Hexachlorobutadiene	1	ug/l	2.0	ND
Hexachlorocyclopentadiene	1	ug/l	6.8	ND
Hexachloroethane	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Isophorone	1	ug/l	2.0	ND

Sample ID: Field Blank
Lab#: AD38798-007
Matrix: Aqueous
Collection Date: 6/22/2023
Receipt Date: 6/23/2023

Naphthalene	1	ug/l	0.50	ND
Nitrobenzene	1	ug/l	2.0	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.61	ND
N-Nitrosodiphenylamine	1	ug/l	2.0	ND
Pentachlorophenol	1	ug/l	10	ND
Phenanthrene	1	ug/l	2.0	ND
Phenol	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

TAL Metals 6020B

Analyte	DF	Units	RL	Result
Aluminum	1	ug/l	200	ND
Antimony	1	ug/l	3.0	ND
Arsenic	1	ug/l	2.0	ND
Barium	1	ug/l	5.0	ND
Beryllium	1	ug/l	1.0	ND
Cadmium	1	ug/l	2.0	ND
Calcium	1	ug/l	500	ND
Chromium	1	ug/l	2.0	ND
Cobalt	1	ug/l	2.0	ND
Copper	1	ug/l	10	ND
Iron	1	ug/l	300	ND
Lead	1	ug/l	3.0	ND
Magnesium	1	ug/l	500	ND
Manganese	1	ug/l	6.0	ND
Nickel	1	ug/l	3.0	ND
Potassium	1	ug/l	500	ND
Selenium	1	ug/l	10	ND
Silver	1	ug/l	1.0	ND
Sodium	1	ug/l	500	ND
Thallium	1	ug/l	2.0	ND
Vanadium	1	ug/l	2.0	ND
Zinc	1	ug/l	20	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.66	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	**1**	**ug/l**	**5.0**	**12**
Benzene	1	ug/l	0.50	ND

Sample ID: Field Blank
Lab#: AD38798-007
Matrix: Aqueous
Collection Date: 6/22/2023
Receipt Date: 6/23/2023

Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	**1**	**ug/l**	**1.0**	**2.1**
Methyl-t-butyl ether	1	ug/l	0.87	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38798-001
Client Id: MW-1_6.22.23
Data File: 11M112489.D
Analysis Date: 06/26/23 15:00
Date Rec/Extracted: 06/23/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.66	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 697497

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38798-002
Client Id: MW-2_6.22.23
Data File: 11M112490.D
Analysis Date: 06/26/23 15:19
Date Rec/Extracted: 06/23/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.66	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 697497

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38798-003
Client Id: MW-3_6.22.23
Data File: 11M112488.D
Analysis Date: 06/26/23 14:41
Date Rec/Extracted: 06/23/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.66	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 697497

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38798-004(MS:AD38
Client Id: MW-2_6.22.23-MS
Data File: 11M112492.D
Analysis Date: 06/26/23 15:57
Date Rec/Extracted: 06/23/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	11	56-23-5	Carbon Tetrachloride	1.0	11
79-34-5	1,1,2,2-Tetrachloroethane	1.0	8.0	108-90-7	Chlorobenzene	1.0	9.6
76-13-1	1,1,2-Trichloro-1,2,2-triflu	1.0	23	75-00-3	Chloroethane	1.0	14
79-00-5	1,1,2-Trichloroethane	1.0	9.6	67-66-3	Chloroform	1.0	11
75-34-3	1,1-Dichloroethane	1.0	10	74-87-3	Chloromethane	1.0	5.1
75-35-4	1,1-Dichloroethene	1.0	10	156-59-2	cis-1,2-Dichloroethene	1.0	12
87-61-6	1,2,3-Trichlorobenzene	1.0	8.3	10061-01-5	cis-1,3-Dichloropropene	1.0	9.1
120-82-1	1,2,4-Trichlorobenzene	1.0	8.7	110-82-7	Cyclohexane	1.0	24
96-12-8	1,2-Dibromo-3-Chloroprop	1.0	9.3	124-48-1	Dibromochloromethane	1.0	9.1
106-93-4	1,2-Dibromoethane	1.0	10	75-71-8	Dichlorodifluoromethane	1.0	2.0
95-50-1	1,2-Dichlorobenzene	1.0	9.4	100-41-4	Ethylbenzene	1.0	8.6
107-06-2	1,2-Dichloroethane	0.66	12	98-82-8	Isopropylbenzene	1.0	9.5
78-87-5	1,2-Dichloropropane	1.0	11	79601-23-1	m&p-Xylenes	1.0	19
541-73-1	1,3-Dichlorobenzene	1.0	9.3	79-20-9	Methyl Acetate	1.0	24
106-46-7	1,4-Dichlorobenzene	1.0	8.8	108-87-2	Methylcyclohexane	1.0	24
123-91-1	1,4-Dioxane	50	1100	75-09-2	Methylene Chloride	1.0	9.8
78-93-3	2-Butanone	1.0	35	1634-04-4	Methyl-t-butyl ether	0.87	24
591-78-6	2-Hexanone	1.0	34	95-47-6	o-Xylene	1.0	9.6
108-10-1	4-Methyl-2-Pentanone	1.0	36	100-42-5	Styrene	1.0	9.5
67-64-1	Acetone	5.0	120	127-18-4	Tetrachloroethene	1.0	8.8
71-43-2	Benzene	0.50	11	108-88-3	Toluene	1.0	9.7
74-97-5	Bromochloromethane	1.0	12	156-60-5	trans-1,2-Dichloroethene	1.0	9.8
75-27-4	Bromodichloromethane	1.0	12	10061-02-6	trans-1,3-Dichloropropene	1.0	9.1
75-25-2	Bromoform	1.0	8.7	79-01-6	Trichloroethene	1.0	11
74-83-9	Bromomethane	1.0	12	75-69-4	Trichlorofluoromethane	1.0	19
75-15-0	Carbon Disulfide	1.0	26	75-01-4	Vinyl Chloride	1.0	9.1
1330-20-7	Xylenes (Total)	1.0	29				

Worksheet #: 699406

Total Target Concentration 1900

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38798-005(MSD:AD
Client Id: MW-2_6.22.23-MSD
Data File: 11M112493.D
Analysis Date: 06/26/23 16:16
Date Rec/Extracted: 06/23/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	12	56-23-5	Carbon Tetrachloride	1.0	13
79-34-5	1,1,2,2-Tetrachloroethane	1.0	8.8	108-90-7	Chlorobenzene	1.0	10
76-13-1	1,1,2-Trichloro-1,2,2-triflu	1.0	25	75-00-3	Chloroethane	1.0	16
79-00-5	1,1,2-Trichloroethane	1.0	10	67-66-3	Chloroform	1.0	12
75-34-3	1,1-Dichloroethane	1.0	12	74-87-3	Chloromethane	1.0	5.8
75-35-4	1,1-Dichloroethene	1.0	11	156-59-2	cis-1,2-Dichloroethene	1.0	12
87-61-6	1,2,3-Trichlorobenzene	1.0	9.1	10061-01-5	cis-1,3-Dichloropropene	1.0	10
120-82-1	1,2,4-Trichlorobenzene	1.0	9.8	110-82-7	Cyclohexane	1.0	27
96-12-8	1,2-Dibromo-3-Chloroprop	1.0	10	124-48-1	Dibromochloromethane	1.0	10
106-93-4	1,2-Dibromoethane	1.0	11	75-71-8	Dichlorodifluoromethane	1.0	2.3
95-50-1	1,2-Dichlorobenzene	1.0	10	100-41-4	Ethylbenzene	1.0	9.9
107-06-2	1,2-Dichloroethane	0.66	13	98-82-8	Isopropylbenzene	1.0	11
78-87-5	1,2-Dichloropropane	1.0	12	79601-23-1	m&p-Xylenes	1.0	21
541-73-1	1,3-Dichlorobenzene	1.0	11	79-20-9	Methyl Acetate	1.0	24
106-46-7	1,4-Dichlorobenzene	1.0	9.8	108-87-2	Methylcyclohexane	1.0	26
123-91-1	1,4-Dioxane	50	1200	75-09-2	Methylene Chloride	1.0	11
78-93-3	2-Butanone	1.0	32	1634-04-4	Methyl-t-butyl ether	0.87	25
591-78-6	2-Hexanone	1.0	39	95-47-6	o-Xylene	1.0	10
108-10-1	4-Methyl-2-Pentanone	1.0	37	100-42-5	Styrene	1.0	10
67-64-1	Acetone	5.0	130	127-18-4	Tetrachloroethene	1.0	9.6
71-43-2	Benzene	0.50	12	108-88-3	Toluene	1.0	11
74-97-5	Bromochloromethane	1.0	13	156-60-5	trans-1,2-Dichloroethene	1.0	11
75-27-4	Bromodichloromethane	1.0	13	10061-02-6	trans-1,3-Dichloropropene	1.0	9.9
75-25-2	Bromoform	1.0	9.7	79-01-6	Trichloroethene	1.0	12
74-83-9	Bromomethane	1.0	14	75-69-4	Trichlorofluoromethane	1.0	21
75-15-0	Carbon Disulfide	1.0	28	75-01-4	Vinyl Chloride	1.0	10
1330-20-7	Xylenes (Total)	1.0	31				

Worksheet #: 699406 *Total Target Concentration* 2100 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38798-006
Client Id: DUP-1
Data File: 11M112491.D
Analysis Date: 06/26/23 15:38
Date Rec/Extracted: 06/23/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.66	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 697497

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38798-007
Client Id: Field Blank
Data File: 11M112487.D
Analysis Date: 06/26/23 14:22
Date Rec/Extracted: 06/23/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.66	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	**75-09-2**	**Methylene Chloride**	**1.0**	**2.1**
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	**Acetone**	**5.0**	**12**	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38798-001
Client Id: MW-1_6.22.23
Data File: 5M124301.D
Analysis Date: 06/28/23 19:13
Date Rec/Extracted: 06/23/23-06/28/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U
207-08-9	Benzo[k]fluoranthene	2.0	U				

Worksheet #: 697640

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38798-002
Client Id: MW-2_6.22.23
Data File: 5M124298.D
Analysis Date: 06/28/23 18:01
Date Rec/Extracted: 06/23/23-06/28/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	U	50-32-8	Benzo[a]pyrene	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	205-99-2	Benzo[b]fluoranthene	2.0	U
123-91-1	1,4-Dioxane	0.50	U	191-24-2	Benzo[g,h,i]perylene	2.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	207-08-9	Benzo[k]fluoranthene	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U	111-91-1	bis(2-Chloroethoxy)methan	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	111-44-4	bis(2-Chloroethyl)ether	0.51	U
120-83-2	2,4-Dichlorophenol	0.62	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
105-67-9	2,4-Dimethylphenol	1.1	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	85-68-7	Butylbenzylphthalate	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	105-60-2	Caprolactam	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	86-74-8	Carbazole	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
95-57-8	2-Chlorophenol	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	132-64-9	Dibenzofuran	0.59	U
95-48-7	2-Methylphenol	0.59	U	84-66-2	Diethylphthalate	2.0	U
88-74-4	2-Nitroaniline	2.0	U	131-11-3	Dimethylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	84-74-2	Di-n-butylphthalate	0.72	U
106-44-5	3&4-Methylphenol	0.64	U	117-84-0	Di-n-octylphthalate	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	206-44-0	Fluoranthene	2.0	U
99-09-2	3-Nitroaniline	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	6.8	U
106-47-8	4-Chloroaniline	0.59	U	67-72-1	Hexachloroethane	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
100-01-6	4-Nitroaniline	2.0	U	78-59-1	Isophorone	2.0	U
100-02-7	4-Nitrophenol	2.0	U	91-20-3	Naphthalene	0.50	U
83-32-9	Acenaphthene	2.0	U	98-95-3	Nitrobenzene	2.0	U
208-96-8	Acenaphthylene	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.61	U
98-86-2	Acetophenone	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
120-12-7	Anthracene	2.0	U	87-86-5	Pentachlorophenol	10	U
1912-24-9	Atrazine	2.0	U	85-01-8	Phenanthrene	2.0	U
100-52-7	Benzaldehyde	2.0	U	108-95-2	Phenol	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 697606

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38798-002
Client Id: MW-2_6.22.23
Data File: 12M67399.D
Analysis Date: 06/28/23 16:53
Date Rec/Extracted: 06/23/23-06/28/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 697610

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38798-003
Client Id: MW-3_6.22.23
Data File: 5M124302.D
Analysis Date: 06/28/23 19:38
Date Rec/Extracted: 06/23/23-06/28/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U
207-08-9	Benzo[k]fluoranthene	2.0	U				

Worksheet #: 697640

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38798-004(MS:AD38
Client Id: MW-2_6.22.23-MS
Data File: 5M124299.D
Analysis Date: 06/28/23 18:25
Date Rec/Extracted: 06/23/23-06/28/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	93	50-32-8	Benzo[a]pyrene	2.0	100
95-94-3	1,2,4,5-Tetrachlorobenzen	2.0	93	205-99-2	Benzo[b]fluoranthene	2.0	110
123-91-1	1,4-Dioxane	0.50	49	191-24-2	Benzo[g,h,i]perylene	2.0	97
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	99	207-08-9	Benzo[k]fluoranthene	2.0	110
95-95-4	2,4,5-Trichlorophenol	2.0	98	111-91-1	bis(2-Chloroethoxy)metha	2.0	86
88-06-2	2,4,6-Trichlorophenol	2.0	100	111-44-4	bis(2-Chloroethyl)ether	0.51	75
120-83-2	2,4-Dichlorophenol	0.62	90	108-60-1	bis(2-chloroisopropyl)ethe	2.0	55
105-67-9	2,4-Dimethylphenol	1.1	71	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	100
51-28-5	2,4-Dinitrophenol	10	110	85-68-7	Butylbenzylphthalate	2.0	110
121-14-2	2,4-Dinitrotoluene	2.0	100	105-60-2	Caprolactam	2.0	39
606-20-2	2,6-Dinitrotoluene	2.0	98	86-74-8	Carbazole	2.0	100
91-58-7	2-Chloronaphthalene	2.0	89	218-01-9	Chrysene	2.0	95
95-57-8	2-Chlorophenol	2.0	75	53-70-3	Dibenzo[a,h]anthracene	2.0	100
91-57-6	2-Methylnaphthalene	2.0	97	132-64-9	Dibenzofuran	0.59	96
95-48-7	2-Methylphenol	0.59	67	84-66-2	Diethylphthalate	2.0	97
88-74-4	2-Nitroaniline	2.0	81	131-11-3	Dimethylphthalate	2.0	92
88-75-5	2-Nitrophenol	2.0	95	84-74-2	Di-n-butylphthalate	0.72	110
106-44-5	3&4-Methylphenol	0.64	65	117-84-0	Di-n-octylphthalate	2.0	100
91-94-1	3,3'-Dichlorobenzidine	2.0	66	206-44-0	Fluoranthene	2.0	100
99-09-2	3-Nitroaniline	2.0	110	86-73-7	Fluorene	2.0	96
534-52-1	4,6-Dinitro-2-methylpheno	10	110	118-74-1	Hexachlorobenzene	2.0	93
101-55-3	4-Bromophenyl-phenyleth	2.0	97	87-68-3	Hexachlorobutadiene	2.0	83
59-50-7	4-Chloro-3-methylphenol	2.0	92	77-47-4	Hexachlorocyclopentadie	6.8	96
106-47-8	4-Chloroaniline	0.59	120	67-72-1	Hexachloroethane	2.0	77
7005-72-3	4-Chlorophenyl-phenyleth	2.0	96	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	100
100-01-6	4-Nitroaniline	2.0	94	78-59-1	Isophorone	2.0	78
100-02-7	4-Nitrophenol	2.0	39	91-20-3	Naphthalene	0.50	82
83-32-9	Acenaphthene	2.0	94	98-95-3	Nitrobenzene	2.0	88
208-96-8	Acenaphthylene	2.0	100	621-64-7	N-Nitroso-di-n-propylamin	0.61	85
98-86-2	Acetophenone	2.0	94	86-30-6	n-Nitrosodiphenylamine	2.0	74
120-12-7	Anthracene	2.0	94	87-86-5	Pentachlorophenol	10	110
1912-24-9	Atrazine	2.0	97	85-01-8	Phenanthrene	2.0	95
100-52-7	Benzaldehyde	2.0	54	108-95-2	Phenol	2.0	36
56-55-3	Benzo[a]anthracene	2.0	95	129-00-0	Pyrene	2.0	98

Worksheet #: 699407 *Total Target Concentration* 6100 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38798-005(MSD:AD
Client Id: MW-2_6.22.23-MSD
Data File: 5M124300.D
Analysis Date: 06/28/23 18:49
Date Rec/Extracted: 06/23/23-06/28/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	88	50-32-8	Benzo[a]pyrene	2.0	100
95-94-3	1,2,4,5-Tetrachlorobenzen	2.0	89	205-99-2	Benzo[b]fluoranthene	2.0	100
123-91-1	1,4-Dioxane	0.50	42	191-24-2	Benzo[g,h,i]perylene	2.0	95
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	97	207-08-9	Benzo[k]fluoranthene	2.0	100
95-95-4	2,4,5-Trichlorophenol	2.0	99	111-91-1	bis(2-Chloroethoxy)metha	2.0	84
88-06-2	2,4,6-Trichlorophenol	2.0	100	111-44-4	bis(2-Chloroethyl)ether	0.51	76
120-83-2	2,4-Dichlorophenol	0.62	92	108-60-1	bis(2-chloroisopropyl)ethe	2.0	54
105-67-9	2,4-Dimethylphenol	1.1	80	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	100
51-28-5	2,4-Dinitrophenol	10	110	85-68-7	Butylbenzylphthalate	2.0	100
121-14-2	2,4-Dinitrotoluene	2.0	100	105-60-2	Caprolactam	2.0	36
606-20-2	2,6-Dinitrotoluene	2.0	96	86-74-8	Carbazole	2.0	98
91-58-7	2-Chloronaphthalene	2.0	88	218-01-9	Chrysene	2.0	93
95-57-8	2-Chlorophenol	2.0	79	53-70-3	Dibenzo[a,h]anthracene	2.0	98
91-57-6	2-Methylnaphthalene	2.0	93	132-64-9	Dibenzofuran	0.59	94
95-48-7	2-Methylphenol	0.59	72	84-66-2	Diethylphthalate	2.0	96
88-74-4	2-Nitroaniline	2.0	80	131-11-3	Dimethylphthalate	2.0	92
88-75-5	2-Nitrophenol	2.0	93	84-74-2	Di-n-butylphthalate	0.72	110
106-44-5	3&4-Methylphenol	0.64	68	117-84-0	Di-n-octylphthalate	2.0	100
91-94-1	3,3'-Dichlorobenzidine	2.0	85	206-44-0	Fluoranthene	2.0	100
99-09-2	3-Nitroaniline	2.0	100	86-73-7	Fluorene	2.0	95
534-52-1	4,6-Dinitro-2-methylpheno	10	110	118-74-1	Hexachlorobenzene	2.0	92
101-55-3	4-Bromophenyl-phenyleth	2.0	96	87-68-3	Hexachlorobutadiene	2.0	80
59-50-7	4-Chloro-3-methylphenol	2.0	97	77-47-4	Hexachlorocyclopentadie	6.8	100
106-47-8	4-Chloroaniline	0.59	110	67-72-1	Hexachloroethane	2.0	74
7005-72-3	4-Chlorophenyl-phenyleth	2.0	95	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	98
100-01-6	4-Nitroaniline	2.0	92	78-59-1	Isophorone	2.0	77
100-02-7	4-Nitrophenol	2.0	40	91-20-3	Naphthalene	0.50	80
83-32-9	Acenaphthene	2.0	92	98-95-3	Nitrobenzene	2.0	85
208-96-8	Acenaphthylene	2.0	98	621-64-7	N-Nitroso-di-n-propylamin	0.61	85
98-86-2	Acetophenone	2.0	91	86-30-6	n-Nitrosodiphenylamine	2.0	77
120-12-7	Anthracene	2.0	94	87-86-5	Pentachlorophenol	10	100
1912-24-9	Atrazine	2.0	94	85-01-8	Phenanthrene	2.0	92
100-52-7	Benzaldehyde	2.0	53	108-95-2	Phenol	2.0	35
56-55-3	Benzo[a]anthracene	2.0	93	129-00-0	Pyrene	2.0	94

Worksheet #: 699407

Total Target Concentration 6000

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38798-006
Client Id: DUP-1
Data File: 5M124303.D
Analysis Date: 06/28/23 20:02
Date Rec/Extracted: 06/23/23-06/28/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	U	50-32-8	Benzo[a]pyrene	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	205-99-2	Benzo[b]fluoranthene	2.0	U
123-91-1	1,4-Dioxane	0.50	U	191-24-2	Benzo[g,h,i]perylene	2.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	207-08-9	Benzo[k]fluoranthene	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U	111-91-1	bis(2-Chloroethoxy)methan	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	111-44-4	bis(2-Chloroethyl)ether	0.51	U
120-83-2	2,4-Dichlorophenol	0.62	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
105-67-9	2,4-Dimethylphenol	1.1	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	85-68-7	Butylbenzylphthalate	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	105-60-2	Caprolactam	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	86-74-8	Carbazole	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
95-57-8	2-Chlorophenol	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	132-64-9	Dibenzofuran	0.59	U
95-48-7	2-Methylphenol	0.59	U	84-66-2	Diethylphthalate	2.0	U
88-74-4	2-Nitroaniline	2.0	U	131-11-3	Dimethylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	84-74-2	Di-n-butylphthalate	0.72	U
106-44-5	3&4-Methylphenol	0.64	U	117-84-0	Di-n-octylphthalate	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	206-44-0	Fluoranthene	2.0	U
99-09-2	3-Nitroaniline	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	6.8	U
106-47-8	4-Chloroaniline	0.59	U	67-72-1	Hexachloroethane	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
100-01-6	4-Nitroaniline	2.0	U	78-59-1	Isophorone	2.0	U
100-02-7	4-Nitrophenol	2.0	U	91-20-3	Naphthalene	0.50	U
83-32-9	Acenaphthene	2.0	U	98-95-3	Nitrobenzene	2.0	U
208-96-8	Acenaphthylene	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.61	U
98-86-2	Acetophenone	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
120-12-7	Anthracene	2.0	U	87-86-5	Pentachlorophenol	10	U
1912-24-9	Atrazine	2.0	U	85-01-8	Phenanthrene	2.0	U
100-52-7	Benzaldehyde	2.0	U	108-95-2	Phenol	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 697606

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38798-006
Client Id: DUP-1
Data File: 12M67400.D
Analysis Date: 06/28/23 17:14
Date Rec/Extracted: 06/23/23-06/28/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 697610

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38798-007
Client Id: Field Blank
Data File: 5M124304.D
Analysis Date: 06/28/23 20:25
Date Rec/Extracted: 06/23/23-06/28/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	U	50-32-8	Benzo[a]pyrene	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	205-99-2	Benzo[b]fluoranthene	2.0	U
123-91-1	1,4-Dioxane	0.50	U	191-24-2	Benzo[g,h,i]perylene	2.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	207-08-9	Benzo[k]fluoranthene	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U	111-91-1	bis(2-Chloroethoxy)methan	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	111-44-4	bis(2-Chloroethyl)ether	0.51	U
120-83-2	2,4-Dichlorophenol	0.62	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
105-67-9	2,4-Dimethylphenol	1.1	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	85-68-7	Butylbenzylphthalate	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	105-60-2	Caprolactam	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	86-74-8	Carbazole	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
95-57-8	2-Chlorophenol	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	132-64-9	Dibenzofuran	0.59	U
95-48-7	2-Methylphenol	0.59	U	84-66-2	Diethylphthalate	2.0	U
88-74-4	2-Nitroaniline	2.0	U	131-11-3	Dimethylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	84-74-2	Di-n-butylphthalate	0.72	U
106-44-5	3&4-Methylphenol	0.64	U	117-84-0	Di-n-octylphthalate	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	206-44-0	Fluoranthene	2.0	U
99-09-2	3-Nitroaniline	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	6.8	U
106-47-8	4-Chloroaniline	0.59	U	67-72-1	Hexachloroethane	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
100-01-6	4-Nitroaniline	2.0	U	78-59-1	Isophorone	2.0	U
100-02-7	4-Nitrophenol	2.0	U	91-20-3	Naphthalene	0.50	U
83-32-9	Acenaphthene	2.0	U	98-95-3	Nitrobenzene	2.0	U
208-96-8	Acenaphthylene	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.61	U
98-86-2	Acetophenone	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
120-12-7	Anthracene	2.0	U	87-86-5	Pentachlorophenol	10	U
1912-24-9	Atrazine	2.0	U	85-01-8	Phenanthrene	2.0	U
100-52-7	Benzaldehyde	2.0	U	108-95-2	Phenol	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 697606

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38798-007
Client Id: Field Blank
Data File: 12M67401.D
Analysis Date: 06/28/23 17:36
Date Rec/Extracted: 06/23/23-06/28/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 697610

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD38798-002
Client Id: MW-2_6.22.23
Data File: 2G178397.D
Analysis Date: 06/30/23 12:53
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 965ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.26	U	11097-69-1	Aroclor-1254	0.26	U
11104-28-2	Aroclor-1221	0.26	U	11096-82-5	Aroclor-1260	0.26	U
11141-16-5	Aroclor-1232	0.26	U	37324-23-5	Aroclor-1262	0.26	U
53469-21-9	Aroclor-1242	0.26	U	11100-14-4	Aroclor-1268	0.26	U
12672-29-6	Aroclor-1248	0.26	U	1336-36-3	Aroclor (Total)	0.26	U

Worksheet #: 700848

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD38798-004(MS:AD38
Client Id: MW-2_6.22.23-MS
Data File: 2G178395.D
Analysis Date: 06/30/23 12:29
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 970ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	**(^)Aroclor-1016**	**0.26**	**7.5**	11097-69-1	Aroclor-1254	0.26	U
11104-28-2	Aroclor-1221	0.26	U	**11096-82-5**	**Aroclor-1260**	**0.26**	**8.4**
11141-16-5	Aroclor-1232	0.26	U	37324-23-5	Aroclor-1262	0.26	U
53469-21-9	Aroclor-1242	0.26	U	11100-14-4	Aroclor-1268	0.26	U
12672-29-6	Aroclor-1248	0.26	U	**1336-36-3**	**Aroclor (Total)**	**0.26**	**16**

Worksheet #: 700848

Total Target Concentration 8.4

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD38798-005(MSD:AD
Client Id: MW-2_6.22.23-MSD
Data File: 2G178396.D
Analysis Date: 06/30/23 12:41
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 995ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	**(^)Aroclor-1016**	**0.25**	**7.7**	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	**11096-82-5**	**Aroclor-1260**	**0.25**	**8.5**
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	**1336-36-3**	**Aroclor (Total)**	**0.25**	**16**

Worksheet #: 700848

Total Target Concentration 8.5

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD38798-006
Client Id: DUP-1
Data File: 2G178398.D
Analysis Date: 06/30/23 13:04
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 985ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 700848

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD38798-007
Client Id: Field Blank
Data File: 2G178399.D
Analysis Date: 06/30/23 13:16
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 965ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.26	U	11097-69-1	Aroclor-1254	0.26	U
11104-28-2	Aroclor-1221	0.26	U	11096-82-5	Aroclor-1260	0.26	U
11141-16-5	Aroclor-1232	0.26	U	37324-23-5	Aroclor-1262	0.26	U
53469-21-9	Aroclor-1242	0.26	U	11100-14-4	Aroclor-1268	0.26	U
12672-29-6	Aroclor-1248	0.26	U	1336-36-3	Aroclor (Total)	0.26	U

Worksheet #: 700848

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD38798-002
Client Id: MW-2_6.22.23
Data File: 6G178541.D
Analysis Date: 07/19/23 09:13
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 965ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
5103-71-9	a-chlordane	0.010	U	53494-70-5	Endrin Ketone	0.010	U
309-00-2	Aldrin	0.010	U	58-89-9	gamma-BHC	0.010	U
319-84-6	alpha-BHC	0.010	U	76-44-8	Heptachlor	0.010	U
319-85-7	beta-BHC	0.010	U	1024-57-3	Heptachlor Epoxide	0.010	U
319-86-8	delta-BHC	0.010	U	72-43-5	Methoxychlor	0.015	U
60-57-1	Dieldrin	0.010	U	72-54-8	p,p'-DDD	0.010	U
959-98-8	Endosulfan I	0.010	U	72-55-9	p,p'-DDE	0.010	U
33213-65-9	Endosulfan II	0.010	U	50-29-3	p,p'-DDT	0.010	U
1031-07-8	Endosulfan Sulfate	0.010	U	8001-35-2	Toxaphene	0.26	U
72-20-8	Endrin	0.010	U	5103-74-2	y-chlordane	0.010	U
7421-93-4	Endrin Aldehyde	0.010	U	57-74-9	Chlordane (Total)	0.010	U

Worksheet #: 699675

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD38798-004(MS:AD38
Client Id: MW-2_6.22.23-MS
Data File: 6G178163.D
Analysis Date: 07/11/23 16:48
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 970ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
5103-71-9	**a-chlordane**	**0.010**	**0.52**	**53494-70-5**	**(^)Endrin Ketone**	**0.010**	**0.52**
309-00-2	**Aldrin**	**0.010**	**0.47**	**58-89-9**	**gamma-BHC**	**0.010**	**0.49**
319-84-6	**alpha-BHC**	**0.010**	**0.49**	**76-44-8**	**(^)Heptachlor**	**0.010**	**0.50**
319-85-7	**(^)beta-BHC**	**0.010**	**0.49**	**1024-57-3**	**Heptachlor Epoxide**	**0.010**	**0.51**
319-86-8	**delta-BHC**	**0.010**	**0.48**	**72-43-5**	**(^)Methoxychlor**	**0.015**	**0.50**
60-57-1	**Dieldrin**	**0.010**	**0.49**	**72-54-8**	**(^)p,p'-DDD**	**0.010**	**0.55**
959-98-8	**(^)Endosulfan I**	**0.010**	**0.52**	**72-55-9**	**p,p'-DDE**	**0.010**	**0.54**
33213-65-9	**(^)Endosulfan II**	**0.010**	**0.53**	**50-29-3**	**(^)p,p'-DDT**	**0.010**	**0.48**
1031-07-8	**(^)Endosulfan Sulfate**	**0.010**	**0.50**	8001-35-2	Toxaphene	0.26	U
72-20-8	**Endrin**	**0.010**	**0.53**	**5103-74-2**	**y-chlordane**	**0.010**	**0.46**
7421-93-4	**(^)Endrin Aldehyde**	**0.010**	**0.55**	**57-74-9**	**Chlordane (Total)**	**0.010**	**0.98**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD38798-005(MSD:AD
Client Id: MW-2_6.22.23-MSD
Data File: 6G178164.D
Analysis Date: 07/11/23 17:00
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 990ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
5103-71-9	**a-chlordane**	**0.010**	**0.50**	**53494-70-5**	**(^)Endrin Ketone**	**0.010**	**0.52**
309-00-2	**Aldrin**	**0.010**	**0.47**	**58-89-9**	**gamma-BHC**	**0.010**	**0.50**
319-84-6	**alpha-BHC**	**0.010**	**0.53**	**76-44-8**	**(^)Heptachlor**	**0.010**	**0.49**
319-85-7	**(^)beta-BHC**	**0.010**	**0.49**	**1024-57-3**	**Heptachlor Epoxide**	**0.010**	**0.49**
319-86-8	**delta-BHC**	**0.010**	**0.46**	**72-43-5**	**(^)Methoxychlor**	**0.014**	**0.52**
60-57-1	**(^)Dieldrin**	**0.010**	**0.48**	**72-54-8**	**(^)p,p'-DDD**	**0.010**	**0.53**
959-98-8	**(^)Endosulfan I**	**0.010**	**0.50**	**72-55-9**	**p,p'-DDE**	**0.010**	**0.52**
33213-65-9	**(^)Endosulfan II**	**0.010**	**0.53**	**50-29-3**	**(^)p,p'-DDT**	**0.010**	**0.49**
1031-07-8	**(^)Endosulfan Sulfate**	**0.010**	**0.50**	8001-35-2	Toxaphene	0.25	U
72-20-8	**Endrin**	**0.010**	**0.51**	**5103-74-2**	**(^)y-chlordane**	**0.010**	**0.44**
7421-93-4	**(^)Endrin Aldehyde**	**0.010**	**0.56**	**57-74-9**	**Chlordane (Total)**	**0.010**	**0.94**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD38798-006
Client Id: DUP-1
Data File: 3G149272.D
Analysis Date: 06/30/23 15:56
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 985ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
5103-71-9	a-chlordane	0.010	U	53494-70-5	Endrin Ketone	0.010	U
309-00-2	Aldrin	0.010	U	58-89-9	gamma-BHC	0.010	U
319-84-6	alpha-BHC	0.010	U	76-44-8	Heptachlor	0.010	U
319-85-7	beta-BHC	0.010	U	1024-57-3	Heptachlor Epoxide	0.010	U
319-86-8	delta-BHC	0.010	U	72-43-5	Methoxychlor	0.015	U
60-57-1	Dieldrin	0.010	U	72-54-8	p,p'-DDD	0.010	U
959-98-8	Endosulfan I	0.010	U	72-55-9	p,p'-DDE	0.010	U
33213-65-9	Endosulfan II	0.010	U	50-29-3	p,p'-DDT	0.010	U
1031-07-8	Endosulfan Sulfate	0.010	U	8001-35-2	Toxaphene	0.25	U
72-20-8	Endrin	0.010	U	5103-74-2	y-chlordane	0.010	U
7421-93-4	Endrin Aldehyde	0.010	U	57-74-9	Chlordane (Total)	0.010	U

Worksheet #: 699675

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD38798-007
Client Id: Field Blank
Data File: 3G149271.D
Analysis Date: 06/30/23 15:44
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 965ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
5103-71-9	a-chlordane	0.010	U	53494-70-5	Endrin Ketone	0.010	U
309-00-2	Aldrin	0.010	U	58-89-9	gamma-BHC	0.010	U
319-84-6	alpha-BHC	0.010	U	76-44-8	Heptachlor	0.010	U
319-85-7	beta-BHC	0.010	U	1024-57-3	Heptachlor Epoxide	0.010	U
319-86-8	delta-BHC	0.010	U	72-43-5	Methoxychlor	0.015	U
60-57-1	Dieldrin	0.010	U	72-54-8	p,p'-DDD	0.010	U
959-98-8	Endosulfan I	0.010	U	72-55-9	p,p'-DDE	0.010	U
33213-65-9	Endosulfan II	0.010	U	50-29-3	p,p'-DDT	0.010	U
1031-07-8	Endosulfan Sulfate	0.010	U	8001-35-2	Toxaphene	0.26	U
72-20-8	Endrin	0.010	U	5103-74-2	y-chlordane	0.010	U
7421-93-4	Endrin Aldehyde	0.010	U	57-74-9	Chlordane (Total)	0.010	U

Worksheet #: 699675

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS HERBICIDE REPORT

Sample Number: AD38798-002
Client Id: MW-2_6.22.23
Data File: 12G42114.D
Analysis Date: 06/30/23 12:23
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8151A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 10ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
93-76-5	2,4,5-T	0.47	U	1918-00-9	Dicamba	0.47	U
94-75-7	2,4-D	0.47	U	93-72-1	Silvex	0.48	U

Worksheet #: 700850

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS HERBICIDE REPORT

Sample Number: AD38798-004(MS:AD38
Client Id: MW-2_6.22.23-MS
Data File: 12G42112.D
Analysis Date: 06/30/23 11:44
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8151A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 10ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
93-76-5	(^)2,4,5-T	0.47	3.1 R	1918-00-9	(^)Dicamba	0.47	3.2 R
94-75-7	(^)2,4-D	0.47	3.3 R	93-72-1	(^)Silvex	0.48	3.3 R

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS HERBICIDE REPORT

Sample Number: AD38798-005(MSD:AD
Client Id: MW-2_6.22.23-MSD
Data File: 12G42113.D
Analysis Date: 06/30/23 12:03
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8151A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 10ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
93-76-5	(^)2,4,5-T	0.47	2.9 R	1918-00-9	(^)Dicamba	0.47	3.0 R
94-75-7	(^)2,4-D	0.47	3.1 R	93-72-1	(^)Silvex	0.48	3.1 R

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS HERBICIDE REPORT

Sample Number: AD38798-006
Client Id: DUP-1
Data File: 12G42115.D
Analysis Date: 06/30/23 12:43
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8151A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 10ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
93-76-5	2,4,5-T	0.47	U	1918-00-9	Dicamba	0.47	U
94-75-7	2,4-D	0.47	U	93-72-1	Silvex	0.48	U

Worksheet #: 700850

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS HERBICIDE REPORT

Sample Number: AD38798-007
Client Id: Field Blank
Data File: 12G42116.D
Analysis Date: 06/30/23 13:04
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8151A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 10ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
93-76-5	2,4,5-T	0.47	U	1918-00-9	Dicamba	0.47	U
94-75-7	2,4-D	0.47	U	93-72-1	Silvex	0.48	U

Worksheet #: 700850

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38798-001	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	MW-1_6.22.23	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	3.0	ND	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA
7440-38-2	Arsenic	2.0	ND	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA
7440-47-3	Chromium	2.0	2.2	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA
7440-50-8	Copper	10	ND	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA
7439-92-1	Lead	3.0	12	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA
7440-02-0	Nickel	3.0	ND	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA
7782-49-2	Selenium	10	ND	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA
7440-22-4	Silver	1.0	ND	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA
7440-28-0	Thallium	2.0	ND	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA
7440-66-6	Zinc	20	ND	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38798-001	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	MW-1_6.22.23	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.50	ND	1	25	25	06/30/23	107918	H29906SW	17	CV	HGCV3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38798-002	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	MW-2_6.22.23	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-36-0	Antimony	3.0	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-38-2	Arsenic	2.0	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-39-3	Barium	5.0	66	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-70-2	Calcium	500	94000	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-47-3	Chromium	2.0	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-48-4	Cobalt	2.0	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-50-8	Copper	10	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7439-89-6	Iron	300	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7439-92-1	Lead	3.0	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7439-95-4	Magnesium	500	16000	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7439-96-5	Manganese	6.0	360	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-02-0	Nickel	3.0	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-09-7	Potassium	500	2500	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7782-49-2	Selenium	10	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-22-4	Silver	1.0	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-23-5	Sodium	500	150000	1	50	100	06/29/23	107918	06292023A	24	MS	MS4_7800SWA
7440-28-0	Thallium	2.0	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-62-2	Vanadium	2.0	ND	1	50	100	06/29/23	107918	06292023A	24	MS	MS4_7800SWA
7440-66-6	Zinc	20	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38798-002	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	MW-2_6.22.23	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.50	ND	1	25	25	06/30/23	107918	H29906SW	13	CV	HGCV3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38798-003	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	MW-3_6.22.23	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	3.0	ND	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA
7440-38-2	Arsenic	2.0	2.0	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA
7440-47-3	Chromium	2.0	ND	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA
7440-50-8	Copper	10	ND	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA
7439-92-1	Lead	3.0	5.7	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA
7440-02-0	Nickel	3.0	ND	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA
7782-49-2	Selenium	10	ND	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA
7440-22-4	Silver	1.0	ND	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA
7440-28-0	Thallium	2.0	ND	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA
7440-66-6	Zinc	20	ND	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38798-003	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	MW-3_6.22.23	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.50	ND	1	25	25	06/30/23	107918	H29906SW	18	CV	HGCV3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38798-004	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	MW-2_6.22.23-MS	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	5300	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7440-36-0	Antimony	3.0	470	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7440-38-2	Arsenic	2.0	540	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7440-39-3	Barium	5.0	530	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7440-41-7	Beryllium	1.0	480	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7440-43-9	Cadmium	2.0	460	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7440-70-2	Calcium	500	160000	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7440-47-3	Chromium	2.0	560	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7440-48-4	Cobalt	2.0	540	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7440-50-8	Copper	10	530	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7439-89-6	Iron	300	5700	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7439-92-1	Lead	3.0	460	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7439-95-4	Magnesium	500	72000	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7439-96-5	Manganese	6.0	990	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7440-02-0	Nickel	3.0	520	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7440-09-7	Potassium	500	54000	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7782-49-2	Selenium	10	520	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7440-22-4	Silver	1.0	84	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7440-23-5	Sodium	500	200000	1	50	100	06/29/23	107918	06292023A	27	MS	MS4_7800SWA
7440-28-0	Thallium	2.0	460	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7440-62-2	Vanadium	2.0	500	1	50	100	06/29/23	107918	06292023A	27	MS	MS4_7800SWA
7440-66-6	Zinc	20	510	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38798-004	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	MW-2_6.22.23-MS	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.50	9.8	1	25	25	06/30/23	107918	H29906SW	15	CV	HGCV3A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38798-005	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	MW-2_6.22.23-MSD	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	4800	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7440-36-0	Antimony	3.0	500	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7440-38-2	Arsenic	2.0	480	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7440-39-3	Barium	5.0	550	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7440-41-7	Beryllium	1.0	510	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7440-43-9	Cadmium	2.0	490	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7440-70-2	Calcium	500	160000	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7440-47-3	Chromium	2.0	510	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7440-48-4	Cobalt	2.0	480	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7440-50-8	Copper	10	470	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7439-89-6	Iron	300	5200	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7439-92-1	Lead	3.0	480	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7439-95-4	Magnesium	500	66000	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7439-96-5	Manganese	6.0	890	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7440-02-0	Nickel	3.0	470	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7440-09-7	Potassium	500	49000	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7782-49-2	Selenium	10	470	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7440-22-4	Silver	1.0	89	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7440-23-5	Sodium	500	200000	1	50	100	06/29/23	107918	06292023A	28	MS	MS4_7800SWA
7440-28-0	Thallium	2.0	470	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7440-62-2	Vanadium	2.0	490	1	50	100	06/29/23	107918	06292023A	28	MS	MS4_7800SWA
7440-66-6	Zinc	20	470	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38798-005	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	MW-2_6.22.23-MSD	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.50	10	1	25	25	06/30/23	107918	H29906SW	16	CV	HGCV3A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38798-006	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	DUP-1	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-36-0	Antimony	3.0	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-38-2	Arsenic	2.0	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-39-3	Barium	5.0	66	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-70-2	Calcium	500	100000	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-47-3	Chromium	2.0	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-48-4	Cobalt	2.0	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-50-8	Copper	10	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7439-89-6	Iron	300	320	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7439-92-1	Lead	3.0	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7439-95-4	Magnesium	500	17000	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7439-96-5	Manganese	6.0	360	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-02-0	Nickel	3.0	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-09-7	Potassium	500	2400	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7782-49-2	Selenium	10	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-22-4	Silver	1.0	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-23-5	Sodium	500	150000	1	50	100	06/29/23	107918	06292023A	33	MS	MS4_7800SWA
7440-28-0	Thallium	2.0	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-62-2	Vanadium	2.0	ND	1	50	100	06/29/23	107918	06292023A	33	MS	MS4_7800SWA
7440-66-6	Zinc	20	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38798-006	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	DUP-1	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.50	ND	1	25	25	06/30/23	107918	H29906SW	19	CV	HGCV3A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38798-007	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	Field Blank	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-36-0	Antimony	3.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-38-2	Arsenic	2.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-39-3	Barium	5.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-70-2	Calcium	500	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-47-3	Chromium	2.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-48-4	Cobalt	2.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-50-8	Copper	10	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7439-89-6	Iron	300	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7439-92-1	Lead	3.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7439-95-4	Magnesium	500	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7439-96-5	Manganese	6.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-02-0	Nickel	3.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-09-7	Potassium	500	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7782-49-2	Selenium	10	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-22-4	Silver	1.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-23-5	Sodium	500	ND	1	50	100	06/29/23	107918	06292023A	34	MS	MS4_7800SWA
7440-28-0	Thallium	2.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-62-2	Vanadium	2.0	ND	1	50	100	06/29/23	107918	06292023A	34	MS	MS4_7800SWA
7440-66-6	Zinc	20	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38798-007	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	Field Blank	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.50	ND	1	25	25	06/30/23	107918	H29906SW	22	CV	HGCV3A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Chain of Custody Forms

3062404 0078

Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 US Highway 46 and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke
WBE/DBE/SBE 800-426-9992
A Women-Owned, Disadvantaged, Small Business Enterprise

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 3062404

Page 1 of 6

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%) *	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%) *	Reduced:	EnviroData
3 Business Days (50%) *	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%) *	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[X] NYDEC
8 Business Days (Stand.)	NY ASP CatA	[ ] Region 2 or 5
Other:		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: HRP Associates
Address: 1 Fairchild Square, Clifton Park, NY, 12019
1b) Email/Cell/Fax/Ph:
1c) Send Invoice to: Mark.Wright@HRPAssociates.com
1d) Send Report to: Cassy.George@HRPAssociates.com

Project Information

2a) Project: 510 Liberty Street
2b) Project Mgr: Mark Wright
2c) Project Location (City/State): Rome, NY
2d) Quote/PO # (If Applicable): MOH1000.P2

FOR LAB USE ONLY ↓

Batch # AD38798

===> Check If Contingent ===>

Matrix Codes
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis *(specify methods & parameter lists)*

<=== Check If Contingent <===

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	TCL VOCs by EPA Method 8260D	TCL SVOCs by EPA Method 8270	1,4-Dioxane by EPA Method 8270 SIM	TAL Metals by EPA Method 6010B	Mercury by EPA Method 9012	TCL PCBs by EPA Method 8082	TCL Pesticides by EPA Method 8081B	TCL Herbicides by EPA Method 8151	PAHs by EPA Method 8270	Priority Pollutant Metals by EPA Method 6010D	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
001	MW-1_6.22.23	GW	6/22/23	1215		G	X								X	X	2				3		1		
002	MW-2_6.22.23			1322			X	X	X	X	X	X	X	X			10				3		1		
003	MW-3_6.22.23			1130			X								X	X	2				3		1		
004	MW-2_6.22.23-MS			1322			X	X	X	X	X	X	X	X			10				3		1		
005	MW-2_6.22.23-MSD			1322			X	X	X	X	X	X	X	X			10				3		1		
006	DUP-1	GW		—			X	X	X	X	X	X	X	X			10				3		1		
007	Field Blank	OT	6/22/23	1400		G	X	X	X	X	X	X	X	X			6				3		1		

10) Relinquished by:	Accepted by:	Date	Time
Red Lev	Fed Ex	6/22/23	1700
Fed Ex	NTC	6/23/23	0940
NTC	Steph Lott	6/23/23	2:00
Steph Lott			5:00

11) Sampler (print name): Red Levandowski Date: 6/22/23

Additional Notes:
01 - Lab Supplied water

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 2.6/2.2/2.9/2.8/2.4

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

3062404 0079

Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 US Highway 46 and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056
NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

Hampton-Clarke
WBE/DBE/SBE 800-426-9992
A Women-Owned, Disadvantaged, Small Business Enterprise

CHAIN OF CUSTODY RECORD

Project# (Lab Use Only)

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%) *	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%) *	Reduced:	EnviroData
3 Business Days (50%) *	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%) *	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[ ] NYDEC
8 Business Days (Stand.)	NY ASP CatA	[ ] Region 2 or 5
Other:		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: HRP Associates
Address: 1 Fairchild Square, Clifton Park, NY, 12019
1b) Email/Cell/Fax/Ph:
1c) Send Invoice to: Mark.Wright@HRPAssociates.com
1d) Send Report to: Cassy.George@HRPAssociates.com

Project Information

2a) Project: 510 Liberty Street
2b) Project Mgr: Mark Wright
2c) Project Location (City/State): Rome, NY
2d) Quote/PO # (If Applicable): MOH1000.P2

FOR LAB USE ONLY ↓

===> Check If Contingent ===>

Matrix Codes
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

Batch #

7) Analysis (specify methods & parameter lists)

<=== Check If Contingent <===

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	TCL VOCs by EPA Method 8260D	TCL SVOCs by EPA Method 8270	1,4-Dioxane by EPA Method 8270 SIM	TAL Metals by EPA Method 6010B	Mercury by EPA Method 9012	TCL PCBs by EPA Method 8082	TCL Pesticides by EPA Method 8081B	TCL Herbicides by EPA Method 8151	PAHs by EPA Method 8270	Priority Pollutant Metals by EPA Method 6010D	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
	MW-1_6.22.23	GW	6/22/23	1215		G	X								X	X	2				3		1		
	MW-2_6.22.23			1322			X	X	X	X	X	X	X	X			10				3		1		
	MW-3_6.22.23			1130			X								X	X	2				3		1		
	MW-2_6.22.23-MS			1322			X	X	X	X	X	X	X	X			10				3		1		
	MW-2_6.22.23-MSD			1322			X	X	X	X	X	X	X	X			10				3		1		
	DUP-1	GW		—		G	X	X	X	X	X	X	X	X			10				3		1		
	Field DUP	OT	6/22/23	1400		G	X	X	X	X	X	X	X	X			6				3		1		

10) Relinquished by:	Accepted by:	Date	Time
Reed Lewandowski	FedEx	6/22/23	1700
FedEx	MAEL	6/23/23	0940
Stephanie Cobb	Steph Cobb	6/23/23	2:00
Steph Cobb		6/23/23	5:00

11) Sampler (print name): Reed Lewandowski Date: 6/22/23

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature

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Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

3062404 0080

Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 US Highway 46 and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056
NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

Hampton-Clarke
WBE/DBE/SBE 800-426-9992
A Women-Owned, Disadvantaged, Small Business Enterprise

CHAIN OF CUSTODY RECORD

Project# (Lab Use Only)

Page 3 of 6

Customer Information

1a) Customer: HRP Associates
Address: 1 Fairchild Square, Clifton Park, NY, 12019
1b) Email/Cell/Fax/Ph:
1c) Send Invoice to: Mark.Wright@HRPAssociates.com
1d) Send Report to: Cassy.George@HRPAssociates.com

Project Information

2a) Project: 510 Liberty Street
2b) Project Mgr: Mark Wright
2c) Project Location (City/State): Rome, NY
Quote/PO # (If Applicable): MOH1000.P2

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%) *	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%) *	Reduced:	EnviroData
3 Business Days (50%) *	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%) *	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[X] NYDEC
8 Business Days (Stand.)	NY ASP CatA	[ ] Region 2 or 5
Other:		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

FOR LAB USE ONLY

Batch #

===> Check If Contingent ===>

Matrix Codes
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis *(specify methods & parameter lists)*

<=== Check If Contingent <===

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	TCL VOCs by EPA Method 8260D	TCL SVOCs by EPA Method 8270	1,4-Dioxane by EPA Method 8270 SIM	TAL Metals by EPA Method 6010B	Mercury by EPA Method 7012	TCL PCBs by EPA Method 8082	TCL Pesticides by EPA Method 8081B	TCL Herbicides by EPA Method 8151	PAHs by EPA Method 8270	Priority Pollutant Metals by EPA Method 6010D	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
	MW-1_6.22.23	GW	6/22/23	1215		G	X								X	X	2				3		1		
	MW-2_6.22.23			1322			X	X	X	X	X	X	X	X			10				3		1		
	MW-3_6.22.23			1130			X								X	X	2				3		1		
	MW-2_6.22.23-MS			1322			X	X	X	X	X	X	X	X			10				3		1		
	MW-2_6.22.23-MSD			1322			X	X	X	X	X	X	X	X			10				3		1		
	DUP-1	GW		—			X	X	X	X	X	X	X	X			10				3		1		
	Field Blank	OT	6/22/23	1400		G	X	X	X	X	X	X	X	X			10				3		1		

10) Relinquished by:	Accepted by:	Date	Time
Reed R	FedEx	6/22/23	1700
FedEx		6/23/23	0945
		6/23/23	2:00
		6/22/23	5:00

11) Sampler (print name): Reed Lewandowski Date: 6/22/23

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature

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Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

3062404 0081

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Hampton-Clarke
WBE/DBE/SBE 800-426-9992
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CHAIN OF CUSTODY RECORD

Project# (Lab Use Only)

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summery	NJ Hazsite
1 Business Day (100%) *	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%) *	Reduced:	EnviroData
3 Business Days (50%) *	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%) *	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[X] NYDEC
8 Business Days (Stand.)	NY ASP CatA	[ ] Region 2 or 5
Other:		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: HRP Associates
Address: 1 Fairchild Square, Clifton Park, NY, 12019
1b) Email/Cell/Fax/Ph:
1c) Send Invoice to: Mark.Wright@HRPAssociates.com
1d) Send Report to: Cassy.George@HRPAssociates.com

Project Information

2a) Project: 510 Liberty Street
2b) Project Mgr: Mark Wright
2c) Project Location (City/State): Rome, NY
2d) Quote/PO # (If Applicable): MOH1000.P2

FOR LAB USE ONLY ↓

Batch #

===> Check If Contingent ===>

Matrix Codes
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis *(specify methods & parameter lists)*

<=== Check If Contingent <===

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	TCL VOCs by EPA Method 8260D	TCL SVOCs by EPA Method 8270	1,4-Dioxane by EPA Method 8270 SIM	TAL Metals by EPA Method 6010B	Mercury by EPA Method 9012	TCL PCBs by EPA Method 8082	TCL Pesticides by EPA Method 8081B	TCL Herbicides by EPA Method 8151	PAHs by EPA Method 8270	Priority Pollutant Metals by EPA Method 6010D	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
	MW-1_6.22.23	GW	6/22/23	1215		G	X								X	X	2				3		1		
	MW-2_6.22.23			1322			X	X	X	X	X	X	X	X			10				3		1		
	MW-3_6.22.23			1130			X								X	X	2				3		1		
	MW-2_6.22.23-MS			1322			X	X	X	X	X	X	X	X			10				3		1		
	MW-2_6.22.23-MSD			1322			X	X	X	X	X	X	X	X			10				3		1		
	DUP-1	GW		—		G	X	X	X	X	X	X	X	X			10				3		1		
	Field Blank	OT	6/22/23	1400		G	X	X	X	X	X	X	X	X			6				3		1		

10) Relinquished by:	Accepted by:	Date	Time
Reed Lewandowski	Fed Ex	6/22/23	1700
Fed Ex	Mark Wright	6/23/23	0740
Steph Hall	Steph Hall	6/23/23	2:00
Steph Hall		6/23/23	5:00

11) Sampler (print name): Reed Lewandowski Date: 6/22/23

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270E SIM)
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- [ ] NJDEP GWQS
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- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
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- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature

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3062404 0082

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CHAIN OF CUSTODY RECORD

Project# (Lab Use Only)

Customer Information

1a) Customer: HRP Associates
Address: 1 Fairchild Square, Clifton Park, NY, 12019
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1c) Send Invoice to: Mark.Wright@HRPAssociates.com
1d) Send Report to: Cassy.George@HRPAssociates.com

Project Information

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2b) Project Mgr: Mark Wright
2c) Project Location (City/State): Rome, NY
2d) Quote/PO # (If Applicable): MOH1000.P2

3) Reporting Requirements (Please Circle)

Turnaround
When Available:
1 Business Day (100%) *
2 Business Days (75%) *
3 Business Days (50%) *
4 Business Days (35%) *
5 Business Days (25%)
8 Business Days (Stand.)
Other:

Report Type
Summary
Results + QC (Waste)
Reduced:
[ ] NJ [ ] NY
[ ] PA [ ] Other
NJ Full / NY ASP CatB
NY ASP CatA

Electronic Data Deliv.
NJ Hazsite
Excel Reg. NJ / NY / PA
EnviroData
EQuIS:
[ ] 4-File [ ] EZ
[x] NYDEC
[ ] Region 2 or 5
Other:

* Expedited TAT Not Always Available. Please Check with Lab.

FOR LAB USE ONLY ↓

Batch #

===> Check If Contingent ===>

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<=== Check If Contingent <===

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	TCL VOCs by EPA Method 8260D	TCL SVOCs by EPA Method 8270	1,4-Dioxane by EPA Method 8270 SIM	TAL Metals by EPA Method 6010B	Mercury by EPA Method 9012	TCL PCBs by EPA Method 8082	TCL Pesticides by EPA Method 8081B	TCL Herbicides by EPA Method 8151	PAHs by EPA Method 8270	Priority Pollutant Metals by EPA Method 6010D	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
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	MW-3_6.22.23			1130			X								X	X	2				3		1		
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	MW-2_6.22.23-MSD			1322			X	X	X	X	X	X	X	X			10				3		1		
	DUP-1	GW		—		G	X	X	X	X	X	X	X	X			10				3		1		
	Field Blank	OT	6/22/23	1400		G	X	X	X	X	X	X	X	X			6				3		1		

10) Relinquished by:	Accepted by:	Date	Time
Reed Lev	Reed Lev	6/22/23	1700
Reed Lev	Steph Wilk	6/23/23	0940
Steph Wilk		6/23/23	2:00
Steph Wilk		6/23/23	5:00

11) Sampler (print name): Reed Levandowski Date: 6/22/23

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

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3062404 0083

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WBE/DBE/SBE 800-426-9992
A Women-Owned, Disadvantaged, Small Business Enterprise

CHAIN OF CUSTODY RECORD

Project# (Lab Use Only)

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%) *	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%) *	Reduced:	EnviroData
3 Business Days (50%) *	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%) *	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
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	MW-2_6.22.23			1322			X	X	X	X	X	X	X	X			10				3		1		
	MW-3_6.22.23			1130			X								X	X	2				3		1		
	MW-2_6.22.23-MS			1322			X	X	X	X	X	X	X	X			10				3		1		
	MW-2_6.22.23-MSD			1322			X	X	X	X	X	X	X	X			10				3		1		
	DUP-1	GW		—			X	X	X	X	X	X	X	X			10				3		1		
	Field Blank	OT	6/22/23	1400		G	X	X	X	X	X	X	X	X			6				3		1		

10) Relinquished by:	Accepted by:	Date	Time
Reed L	FedEx	6/22/23	1700
FedEx	NKE	6/23/23	0940
Stephen Todd	Stephen Todd	6/23/23	2:00
Stephen Todd		6/23/23	5:00

11) Sampler (print name): Reed Lewandowski Date: 6/22/23

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270E SIM)
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For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature

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Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

CONDITION UPON RECEIPT

Batch Number AD38798 Entered By: maxwell
Date Entered 6/24/2023 7:57:00 AM

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	No	Are the COC seals intact?
4	T-461	<--- Thermometer ID. Please specify the Temperature inside the container (in degC). 2.6,2.2,2.9,2.8,2.4
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	Yes	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	Yes	Do the contents match the COC? If no, specify
10	No	Is there enough sample sent for the analyses listed on the COC? If no, specify: LIMITED VOLUME FOR SAMPLE DUP AND MS
11	Yes	Are samples preserved correctly?
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	NA	Other comments ...Specify (TB date, sample matrix, any missing info, etc.)
14	NA	Corrective actions (Specify item number and corrective action taken).
15	NA	Were any samples for ortho-phosphate or dissolved ferrous iron field filtered?

PRESERVATION DOCUMENT

Batch Number AD38798 Entered By: maxwell

Date Entered 6/24/2023 7:47:00 AM

Lab#	Container Size	Container/Vial Check	Parameter	Preservative	Preservative Lot#	PH	pH Lot#
AD38798-001	40ML	G	VO	HCL	14470	1.0	HC208072
AD38798-001	1L	P	METALS	HNO3	2022021544	1.0	HC208072
AD38798-002	40ML	G	VO	HCL	14470	1.0	HC208072
AD38798-002	1L	P	METALS	HNO3	2022021544	1.0	HC208072
AD38798-002	1L	G	PEST	NONE	NA	6.0	HC208072
AD38798-002	1L	G	HERB	NONE	NA	6.0	HC208072
AD38798-003	40ML	G	VO	HCL	14470	1.0	HC208072
AD38798-003	1L	P	METALS	HNO3	2022021544	1.0	HC208072
AD38798-004	40ML	G	VO	HCL	14470	1.0	HC208072
AD38798-004	1L	P	METALS	HNO3	2022021544	1.0	HC208072
AD38798-004	1L	G	PEST	NONE	NA	6.0	HC208072
AD38798-004	1L	G	HERB	NONE	NA	6.0	HC208072
AD38798-005	40ML	G	VO	HCL	14470	1.0	HC208072
AD38798-005	1L	P	METALS	HNO3	2022021544	1.0	HC208072
AD38798-005	1L	G	PEST	NONE	NA	6.0	HC208072
AD38798-005	1L	G	HERB	NONE	NA	6.0	HC208072
AD38798-006	40ML	G	VO	HCL	14470	1.0	HC208072
AD38798-006	1L	P	METALS	HNO3	2022021544	1.0	HC208072
AD38798-006	1L	G	PEST	NONE	NA	6.0	HC208072
AD38798-006	1L	G	HERB	NONE	NA	6.0	HC208072
AD38798-007	40ML	G	VO	HCL	14470	1.0	HC208072
AD38798-007	1L	G	PEST	NONE	NA	6.0	HC208072
AD38798-007	1L	G	HERB	NONE	NA	6.0	HC208072

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD38798-001	06/23/23 17:00	MAXW	0	M	Received
AD38798-001	06/24/23 07:15	MAXW	0	M	Login
AD38798-001	06/26/23 11:08	R31	1	A	NONE
AD38798-001	06/26/23 13:32	SG	1	A	VOA
AD38798-001	06/26/23 11:08	R31	2	A	NONE
AD38798-001	06/26/23 11:07	R31\P	3	A	NONE
AD38798-001	06/24/23 07:23	R12	4	A	NONE
AD38798-001	06/27/23 07:15	JL	4	A	TDWI/HG
AD38798-001	06/27/23 08:22	R12	4	A	NONE
AD38798-001	06/24/23 07:23	R12	5	A	NONE
AD38798-001	06/24/23 07:23	R12	6	A	NONE
AD38798-001	06/28/23 08:21	PP	6	A	A-BNA
AD38798-001	06/28/23 14:12	R12	6	A	NONE
AD38798-002	06/23/23 17:00	MAXW	0	M	Received
AD38798-002	06/24/23 07:15	MAXW	0	M	Login
AD38798-002	06/26/23 11:08	R31	1	A	NONE
AD38798-002	06/26/23 13:32	SG	1	A	VOA
AD38798-002	06/26/23 11:08	R31	2	A	NONE
AD38798-002	06/26/23 11:07	R31\P	3	A	NONE
AD38798-002	06/24/23 07:23	R12	4	A	NONE
AD38798-002	06/27/23 07:15	JL	4	A	TDWI/HG
AD38798-002	06/27/23 08:22	R12	4	A	NONE
AD38798-002	06/24/23 07:23	R12	5	A	NONE
AD38798-002	06/29/23 07:12	PJ	5	A	HERB AQ.
AD38798-002	06/29/23 08:54	R12	5	A	NONE
AD38798-002	06/24/23 07:23	R12	6	A	NONE
AD38798-002	06/24/23 07:23	R12	7	A	NONE
AD38798-002	06/24/23 07:23	R12	8	A	NONE
AD38798-002	06/24/23 07:23	R12	9	A	NONE
AD38798-002	06/28/23 08:21	PP	9	A	A-BNA
AD38798-002	06/24/23 07:23	R12	10	A	NONE
AD38798-002	06/24/23 07:23	R12	11	A	NONE
AD38798-002	06/24/23 07:23	R12	12	A	NONE
AD38798-002	06/24/23 07:23	R12	13	A	NONE
AD38798-002	06/24/23 07:23	R12	14	A	NONE
AD38798-003	06/23/23 17:00	MAXW	0	M	Received
AD38798-003	06/24/23 07:15	MAXW	0	M	Login
AD38798-003	06/26/23 11:08	R31	1	A	NONE
AD38798-003	06/26/23 13:32	SG	1	A	VOA
AD38798-003	06/26/23 11:08	R31	2	A	NONE
AD38798-003	06/26/23 11:07	R31\P	3	A	NONE
AD38798-003	06/24/23 07:23	R12	4	A	NONE
AD38798-003	06/27/23 07:15	JL	4	A	TDWI/HG
AD38798-003	06/27/23 08:22	R12	4	A	NONE
AD38798-003	06/24/23 07:23	R12	5	A	NONE
AD38798-003	06/24/23 07:23	R12	6	A	NONE
AD38798-003	06/28/23 08:21	PP	6	A	A-BNA
AD38798-003	06/28/23 14:12	R12	6	A	NONE
AD38798-004	06/23/23 17:00	MAXW	0	M	Received
AD38798-004	06/24/23 07:15	MAXW	0	M	Login
AD38798-004	06/26/23 11:08	R31	1	A	NONE
AD38798-004	06/26/23 13:32	SG	1	A	VOA
AD38798-004	06/26/23 11:08	R31	2	A	NONE
AD38798-004	06/26/23 11:07	R31\P	3	A	NONE
AD38798-004	06/24/23 07:23	R12	4	A	NONE
AD38798-004	06/27/23 07:15	JL	4	A	TDWI/HG
AD38798-004	06/27/23 08:22	R12	4	A	NONE
AD38798-004	06/24/23 07:23	R12	5	A	NONE
AD38798-004	06/24/23 07:23	R12	6	A	NONE
AD38798-004	06/24/23 07:23	R12	7	A	NONE
AD38798-004	06/24/23 07:23	R12	8	A	NONE
AD38798-004	06/29/23 07:12	PJ	8	A	HERB AQ.
AD38798-004	06/29/23 08:54	R12	8	A	NONE
AD38798-004	06/24/23 07:23	R12	9	A	NONE
AD38798-004	06/29/23 18:05	JN	9	A	P/P
AD38798-004	06/24/23 07:23	R12	10	A	NONE
AD38798-004	06/29/23 18:05	JN	10	A	P/P
AD38798-004	06/24/23 07:23	R12	11	A	NONE
AD38798-004	06/28/23 08:21	PP	11	A	A-BNA
AD38798-004	06/24/23 07:23	R12	12	A	NONE
AD38798-005	06/23/23 17:00	MAXW	0	M	Received
AD38798-005	06/24/23 07:15	MAXW	0	M	Login
AD38798-005	06/26/23 11:08	R31	1	A	NONE
AD38798-005	06/26/23 13:32	SG	1	A	VOA
AD38798-005	06/26/23 11:08	R31	2	A	NONE
AD38798-005	06/26/23 11:07	R31\P	3	A	NONE
AD38798-005	06/24/23 07:23	R12	4	A	NONE
AD38798-005	06/27/23 07:15	JL	4	A	TDWI/HG
AD38798-005	06/27/23 08:22	R12	4	A	NONE
AD38798-005	06/24/23 07:23	R12	5	A	NONE
AD38798-005	06/29/23 18:05	JN	5	A	P/P
AD38798-005	06/24/23 07:23	R12	6	A	NONE
AD38798-005	06/29/23 18:05	JN	6	A	P/P
AD38798-005	06/24/23 07:23	R12	7	A	NONE
AD38798-005	06/24/23 07:23	R12	8	A	NONE
AD38798-005	06/24/23 07:23	R12	9	A	NONE
AD38798-005	06/24/23 07:23	R12	10	A	NONE
AD38798-005	06/24/23 07:23	R12	11	A	NONE
AD38798-005	06/29/23 07:12	PJ	11	A	HERB AQ.
AD38798-005	06/29/23 08:54	R12	11	A	NONE
AD38798-005	06/24/23 07:23	R12	12	A	NONE
AD38798-005	06/24/23 07:23	R12	13	A	NONE
AD38798-005	06/28/23 08:21	PP	13	A	A-BNA
AD38798-005	06/24/23 07:23	R12	14	A	NONE
AD38798-006	06/23/23 17:00	MAXW	0	M	Received
AD38798-006	06/24/23 07:15	MAXW	0	M	Login
AD38798-006	06/26/23 11:08	R31	1	A	NONE
AD38798-006	06/26/23 13:32	SG	1	A	VOA
AD38798-006	06/26/23 11:08	R31	2	A	NONE
AD38798-006	06/26/23 11:07	R31\P	3	A	NONE
AD38798-006	06/24/23 07:23	R12	4	A	NONE
AD38798-006	06/27/23 07:15	JL	4	A	TDWI/HG
AD38798-006	06/27/23 08:22	R12	4	A	NONE
AD38798-006	06/24/23 07:23	R12	5	A	NONE
AD38798-006	06/24/23 07:23	R12	6	A	NONE
AD38798-006	06/28/23 08:21	PP	6	A	A-BNA
AD38798-006	06/24/23 07:23	R12	7	A	NONE
AD38798-006	06/24/23 07:23	R12	8	A	NONE
AD38798-006	06/29/23 07:12	PJ	8	A	HERB AQ.
AD38798-006	06/29/23 08:54	R12	8	A	NONE
AD38798-006	06/24/23 07:23	R12	9	A	NONE
AD38798-006	06/29/23 18:05	JN	9	A	P/P
AD38798-006	06/24/23 07:23	R12	10	A	NONE
AD38798-006	06/24/23 07:23	R12	11	A	NONE
AD38798-006	06/24/23 07:23	R12	12	A	NONE
AD38798-006	06/24/23 07:23	R12	13	A	NONE
AD38798-007	06/23/23 17:00	MAXW	0	M	Received
AD38798-007	06/24/23 07:15	MAXW	0	M	Login
AD38798-007	06/26/23 11:08	R31	1	A	NONE
AD38798-007	06/26/23 13:32	SG	1	A	VOA
AD38798-007	06/26/23 11:08	R31	2	A	NONE
AD38798-007	06/26/23 11:07	R31\P	3	A	NONE
AD38798-007	06/24/23 07:23	R12	4	A	NONE
AD38798-007	06/27/23 07:15	JL	4	A	TDWI/HG
AD38798-007	06/27/23 08:22	R12	4	A	NONE
AD38798-007	06/24/23 07:23	R12	5	A	NONE
AD38798-007	06/29/23 18:05	JN	5	A	P/P
AD38798-007	06/24/23 07:23	R12	6	A	NONE
AD38798-007	06/24/23 07:23	R12	7	A	NONE
AD38798-007	06/24/23 07:23	R12	8	A	NONE
AD38798-007	06/28/23 08:21	PP	8	A	A-BNA
AD38798-007	06/24/23 07:23	R12	9	A	NONE
AD38798-007	06/29/23 07:12	PJ	9	A	HERB AQ.
AD38798-007	06/29/23 08:54	R12	9	A	NONE
AD38798-007	06/24/23 07:23	R12	10	A	NONE

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

GC/MS Volatile Data

GC/MS Volatile Data
QC Summary

FORM2

Surrogate Recovery

Method: EPA 8260D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
1M112473.D	DAILY BLANK	A	06/26/23 09:56	1		106	109	93	104		
1M112489.D	AD38798-001	A	06/26/23 15:00	1		102	105	92	104		
1M112490.D	AD38798-002	A	06/26/23 15:19	1		105	109	90	103		
1M112488.D	AD38798-003	A	06/26/23 14:41	1		102	104	93	104		
1M112492.D	AD38798-004(MS:AD38	A	06/26/23 15:57	1		105	106	91	99		
1M112493.D	AD38798-005(MSD:AD3	A	06/26/23 16:16	1		104	101	94	104		
1M112491.D	AD38798-006	A	06/26/23 15:38	1		107	106	90	103		
1M112487.D	AD38798-007	A	06/26/23 14:22	1		101	107	92	101		
1M112481.D	MBS110098	A	06/26/23 12:28	1		103	106	91	97		

Flags: SD=Surrogate diluted out

*=Surrogate out

Method: EPA 8260D

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	82-120
S2=1,2-Dichloroethane-d4	30	81-123
S3=Toluene-d8	30	75-121
S4=Bromofluorobenzene	30	77-125

Form3
Recovery Data Laboratory Limits
QC Batch: MBS110098

	Data File	Sample ID:	Analysis Date
Spike or Dup:	11M112481.D	MBS110098	6/26/2023 12:28:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	27.798	0	20	139	16	181
Dichlorodifluoromethane	1	19.7726	0	20	99	10	202
Chloromethane	1	17.957	0	20	90	10	182
Bromomethane	1	21.6535	0	20	108	10	172
Vinyl Chloride	1	19.2876	0	20	96	26	176
Chloroethane	1	20.2981	0	20	101	28	165
Trichlorofluoromethane	1	24.2719	0	20	121	18	178
Ethyl ether	1	23.3612	0	20	117	38	155
Furan	1	24.5194	0	20	123	31	160
1,1,2-Trichloro-1,2,2-trifluoroethane	1	24.5573	0	20	123	32	178
Methylene Chloride	1	22.2002	0	20	111	10	225
Acrolein	1	91.1647	0	100	91	10	183
Acrylonitrile	1	25.6338	0	20	128	40	164
Iodomethane	1	22.2293	0	20	111	10	191
Acetone	1	137.2677	0	100	137	10	237
Carbon Disulfide	1	20.6943	0	20	103	10	194
t-Butyl Alcohol	1	129.8676	0	100	130	21	185
n-Hexane	1	24.9743	0	20	125	43	179
Di-isopropyl-ether	1	26.3667	0	20	132	47	159
1,1-Dichloroethene	1	24.7637	0	20	124	42	172
Methyl Acetate	1	27.1148	0	20	136	10	192
Methyl-t-butyl ether	1	25.5022	0	20	128	43	154
1,1-Dichloroethane	1	22.7514	0	20	114	48	160
trans-1,2-Dichloroethene	1	22.0487	0	20	110	37	171
Ethyl-t-butyl ether	1	24.2538	0	20	121	53	149
cis-1,2-Dichloroethene	1	23.8186	0	20	119	45	161
Bromochloromethane	1	24.9734	0	20	125	42	170
2,2-Dichloropropane	1	24.9194	0	20	125	33	173
Ethyl acetate	1	25.3537	0	20	127	38	156
1,4-Dioxane	1	1266.52	0	1000	127	18	186
1,1-Dichloropropene	1	22.3441	0	20	112	51	157
Chloroform	1	23.7989	0	20	119	47	157
Cyclohexane	1	24.2711	0	20	121	41	175
1,2-Dichloroethane	1	25.9257	0	20	130	43	154
2-Butanone	1	23.686	0	20	118	20	188
1,1,1-Trichloroethane	1	23.283	0	20	116	49	155
Carbon Tetrachloride	1	24.6054	0	20	123	47	159
Vinyl Acetate	1	28.2333	0	20	141	31	160
Bromodichloromethane	1	25.4753	0	20	127	48	152
Methylcyclohexane	1	24.1224	0	20	121	47	167
Dibromomethane	1	22.8134	0	20	114	47	153
1,2-Dichloropropane	1	23.3067	0	20	117	53	153
Trichloroethene	1	23.5765	0	20	118	45	165
Benzene	1	22.6331	0	20	113	41	163
tert-Amyl methyl ether	1	24.97	0	20	125	51	146
Iso-propylacetate	1	20.5747	0	20	103	37	153
Methyl methacrylate	1	20.7059	0	20	104	40	160
Dibromochloromethane	1	20.549	0	20	103	50	144
2-Chloroethylvinylether	1	22.3104	0	20	112	10	201
cis-1,3-Dichloropropene	1	19.1864	0	20	96	49	146
trans-1,3-Dichloropropene	1	20.2138	0	20	101	48	144
Ethyl methacrylate	1	21.6394	0	20	108	38	160
1,1,2-Trichloroethane	1	20.2538	0	20	101	52	146
1,2-Dibromoethane	1	21.3433	0	20	107	55	140
1,3-Dichloropropane	1	20.2419	0	20	101	54	142
4-Methyl-2-Pentanone	1	22.6912	0	20	113	41	158
2-Hexanone	1	23.5974	0	20	118	39	163
Tetrachloroethene	1	18.4155	0	20	92	48	162
Toluene	1	20.1774	0	20	101	49	153
1,1,1,2-Tetrachloroethane	1	20.8266	0	20	104	51	140
Chlorobenzene	1	19.8508	0	20	99	43	155

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS110098

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	19.6749	0	20	98	21	181
n-Amyl acetate	1	20.4241	0	20	102	20	182
Bromoform	**1**	**19.3189**	**0**	**20**	**97**	**47**	**137**
Ethylbenzene	**1**	**16.9366**	**0**	**20**	**85**	**41**	**153**
1,1,2,2-Tetrachloroethane	**1**	**15.8485**	**0**	**20**	**79**	**36**	**152**
Styrene	**1**	**18.803**	**0**	**20**	**94**	**34**	**170**
m&p-Xylenes	**1**	**36.6896**	**0**	**40**	**92**	**16**	**184**
o-Xylene	**1**	**18.3274**	**0**	**20**	**92**	**31**	**166**
trans-1,4-Dichloro-2-butene	1	18.4864	0	20	92	10	154
1,3-Dichlorobenzene	**1**	**19.412**	**0**	**20**	**97**	**46**	**147**
1,4-Dichlorobenzene	**1**	**18.6859**	**0**	**20**	**93**	**37**	**156**
1,2-Dichlorobenzene	**1**	**19.8768**	**0**	**20**	**99**	**42**	**150**
Isopropylbenzene	**1**	**19.988**	**0**	**20**	**100**	**32**	**174**
Cyclohexanone	1	113.4012	0	100	113	10	254
Camphene	1	17.1098	0	20	86	10	172
1,2,3-Trichloropropane	1	18.0279	0	20	90	20	164
2-Chlorotoluene	1	18.3781	0	20	92	43	153
p-Ethyltoluene	1	18.1075	0	20	91	36	164
4-Chlorotoluene	1	18.9634	0	20	95	34	160
n-Propylbenzene	1	18.3388	0	20	92	30	176
Bromobenzene	1	16.8579	0	20	84	44	142
1,3,5-Trimethylbenzene	1	19.4553	0	20	97	37	165
Butyl methacrylate	1	20.9748	0	20	105	30	169
t-Butylbenzene	1	20.5966	0	20	103	48	162
1,2,4-Trimethylbenzene	1	20.9134	0	20	105	38	162
sec-Butylbenzene	1	20.5633	0	20	103	42	164
4-Isopropyltoluene	1	19.6985	0	20	98	40	162
n-Butylbenzene	1	20.512	0	20	103	30	176
p-Diethylbenzene	1	20.3648	0	20	102	23	179
1,2,4,5-Tetramethylbenzene	1	20.6104	0	20	103	18	177
1,2-Dibromo-3-Chloropropane	**1**	**21.6966**	**0**	**20**	**108**	**32**	**154**
Camphor	1	277.2303	0	200	139	10	202
Hexachlorobutadiene	1	18.1018	0	20	91	23	181
1,2,4-Trichlorobenzene	**1**	**19.6621**	**0**	**20**	**98**	**28**	**169**
1,2,3-Trichlorobenzene	**1**	**20.326**	**0**	**20**	**102**	**30**	**172**
Naphthalene	1	26.3004	0	20	132	13	191

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS110098

	Data File	Sample ID:	Analysis Date
Spike or Dup:	11M112492.D	AD38798-004(MS:AD38798-003	6/26/2023 3:57:00 PM
Non Spike(If applicable):	11M112488.D	AD38798-003	6/26/2023 2:41:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	24.8889	0	20	124	16	181
Dichlorodifluoromethane	1	2.0232	0	20	10	10	202
Chloromethane	1	5.0599	0	20	25	10	182
Bromomethane	1	11.6346	0	20	58	10	172
Vinyl Chloride	1	9.0673	0	20	45	26	176
Chloroethane	1	13.9806	0	20	70	28	165
Trichlorofluoromethane	1	18.9104	0	20	95	18	178
Ethyl ether	1	19.1382	0	20	96	38	155
Furan	1	21.4363	0	20	107	31	160
1,1,2-Trichloro-1,2,2-trifluoroethane	1	22.6557	0	20	113	32	178
Methylene Chloride	1	9.7599	0	20	49	10	225
Acrolein	1	87.7588	0	100	88	10	183
Acrylonitrile	1	23.5071	0	20	118	40	164
Iodomethane	1	21.6014	0	20	108	10	191
Acetone	1	119.9636	0	100	120	10	237
Carbon Disulfide	1	26.1253	0	20	131	10	194
t-Butyl Alcohol	1	121.397	0	100	121	21	185
n-Hexane	1	22.2558	0	20	111	43	179
Di-isopropyl-ether	1	26.8689	0	20	134	47	159
1,1-Dichloroethene	1	10.0626	0	20	50	42	172
Methyl Acetate	1	23.6647	0	20	118	10	192
Methyl-t-butyl ether	1	24.286	0	20	121	43	154
1,1-Dichloroethane	1	10.4942	0	20	52	48	160
trans-1,2-Dichloroethene	1	9.7856	0	20	49	37	171
Ethyl-t-butyl ether	1	24.2484	0	20	121	53	149
cis-1,2-Dichloroethene	1	11.706	0	20	59	45	161
Bromochloromethane	1	11.6371	0	20	58	42	170
2,2-Dichloropropane	1	11.0543	0	20	55	33	173
Ethyl acetate	1	22.6423	0	20	113	38	156
1,4-Dioxane	1	1124.429	0	1000	112	18	186
1,1-Dichloropropene	1	10.5826	0	20	53	51	157
Chloroform	1	11.3295	0	20	57	47	157
Cyclohexane	1	24.2629	0	20	121	41	175
1,2-Dichloroethane	1	11.8394	0	20	59	43	154
2-Butanone	1	35.2426	0	20	176	20	188
1,1,1-Trichloroethane	1	10.9476	0	20	55	49	155
Carbon Tetrachloride	1	11.2345	0	20	56	47	159
Vinyl Acetate	1	35.546	0	20	178*	31	160
Bromodichloromethane	1	11.6147	0	20	58	48	152
Methylcyclohexane	1	24.1114	0	20	121	47	167
Dibromomethane	1	10.2109	0	20	51	47	153
1,2-Dichloropropane	1	11.1563	0	20	56	53	153
Trichloroethene	1	11.0639	0	20	55	45	165
Benzene	1	10.6256	0	20	53	41	163
tert-Amyl methyl ether	1	23.8097	0	20	119	51	146
Iso-propylacetate	1	20.7334	0	20	104	37	153
Methyl methacrylate	1	19.8128	0	20	99	40	160
Dibromochloromethane	1	9.0649	0	20	45*	50	144
2-Chloroethylvinylether	1	12.6724	0	20	63	10	201
cis-1,3-Dichloropropene	1	9.129	0	20	46*	49	146
trans-1,3-Dichloropropene	1	9.1379	0	20	46*	48	144
Ethyl methacrylate	1	20.4436	0	20	102	38	160
1,1,2-Trichloroethane	1	9.6243	0	20	48*	52	146
1,2-Dibromoethane	1	10.0172	0	20	50*	55	140
1,3-Dichloropropane	1	9.4939	0	20	47*	54	142
4-Methyl-2-Pentanone	1	35.5742	0	20	178*	41	158
2-Hexanone	1	34.4406	0	20	172*	39	163
Tetrachloroethene	1	8.7663	0	20	44*	48	156
Toluene	1	9.7363	0	20	49	49	153
1,1,1,2-Tetrachloroethane	1	8.8461	0	20	44*	51	140
Chlorobenzene	1	9.5609	0	20	48	43	155

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS110098

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	21.3323	0	20	107	21	181
n-Amyl acetate	1	22.7523	0	20	114	20	182
Bromoform	**1**	**8.7407**	**0**	**20**	**44***	**47**	**137**
Ethylbenzene	**1**	**8.5848**	**0**	**20**	**43**	**41**	**153**
1,1,2,2-Tetrachloroethane	**1**	**8.0322**	**0**	**20**	**40**	**36**	**152**
Styrene	**1**	**9.5455**	**0**	**20**	**48**	**34**	**170**
m&p-Xylenes	**1**	**19.4807**	**0**	**40**	**49**	**16**	**184**
o-Xylene	**1**	**9.6314**	**0**	**20**	**48**	**31**	**166**
trans-1,4-Dichloro-2-butene	1	19.8794	0	20	99	10	154
1,3-Dichlorobenzene	**1**	**9.3379**	**0**	**20**	**47**	**46**	**147**
1,4-Dichlorobenzene	**1**	**8.848**	**0**	**20**	**44**	**37**	**156**
1,2-Dichlorobenzene	**1**	**9.4136**	**0**	**20**	**47**	**42**	**150**
Isopropylbenzene	**1**	**9.4947**	**0**	**20**	**47**	**32**	**174**
Cyclohexanone	1	65.6246	0	100	66	10	254
Camphene	1	18.0928	0	20	90	10	172
1,2,3-Trichloropropane	1	11.1885	0	20	56	20	164
2-Chlorotoluene	1	10.0565	0	20	50	43	153
p-Ethyltoluene	1	20.354	0	20	102	36	164
4-Chlorotoluene	1	9.8039	0	20	49	34	160
n-Propylbenzene	1	9.54	0	20	48	36	170
Bromobenzene	1	7.6989	0	20	38*	44	142
1,3,5-Trimethylbenzene	1	9.2682	0	20	46	37	165
Butyl methacrylate	1	20.5201	0	20	103	30	169
t-Butylbenzene	1	9.127	0	20	46*	48	152
1,2,4-Trimethylbenzene	1	10.2594	0	20	51	38	162
sec-Butylbenzene	1	10.6984	0	20	53	42	164
4-Isopropyltoluene	1	9.6309	0	20	48	40	162
n-Butylbenzene	1	12.5289	0	20	63	30	176
p-Diethylbenzene	1	21.3674	0	20	107	23	179
1,2,4,5-Tetramethylbenzene	1	21.0374	0	20	105	18	177
1,2-Dibromo-3-Chloropropane	**1**	**9.3459**	**0**	**20**	**47**	**32**	**154**
Camphor	1	228.3727	0	200	114	10	202
Hexachlorobutadiene	1	7.8402	0	20	39	23	181
1,2,4-Trichlorobenzene	**1**	**8.741**	**0**	**20**	**44**	**28**	**169**
1,2,3-Trichlorobenzene	**1**	**8.2517**	**0**	**20**	**41**	**30**	**172**
Naphthalene	1	9.8242	0	20	49	13	191

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS110098

	Data File	Sample ID:	Analysis Date
Spike or Dup:	11M112493.D	AD38798-005(MSD:AD38798-0	6/26/2023 4:16:00 PM
Non Spike(If applicable):	11M112488.D	AD38798-003	6/26/2023 2:41:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	27.8184	0	20	139	16	181
Dichlorodifluoromethane	1	2.3443	0	20	12	10	202
Chloromethane	1	5.7604	0	20	29	10	182
Bromomethane	1	13.7926	0	20	69	10	172
Vinyl Chloride	1	10.0145	0	20	50	26	176
Chloroethane	1	15.5319	0	20	78	28	165
Trichlorofluoromethane	1	21.2137	0	20	106	18	178
Ethyl ether	1	21.6749	0	20	108	38	155
Furan	1	24.328	0	20	122	31	160
1,1,2-Trichloro-1,2,2-trifluoroethane	1	24.8826	0	20	124	32	178
Methylene Chloride	1	10.6076	0	20	53	10	226
Acrolein	1	95.9936	0	100	96	10	183
Acrylonitrile	1	26.9596	0	20	135	40	164
Iodomethane	1	27.9419	0	20	140	10	191
Acetone	1	127.347	0	100	127	10	237
Carbon Disulfide	1	27.9045	0	20	140	10	194
t-Butyl Alcohol	1	121.3288	0	100	121	21	185
n-Hexane	1	24.9461	0	20	125	43	179
Di-isopropyl-ether	1	29.355	0	20	147	47	159
1,1-Dichloroethene	1	11.401	0	20	57	42	172
Methyl Acetate	1	23.9771	0	20	120	10	192
Methyl-t-butyl ether	1	25.2423	0	20	126	43	154
1,1-Dichloroethane	1	11.6803	0	20	58	48	160
trans-1,2-Dichloroethene	1	10.9638	0	20	55	37	171
Ethyl-t-butyl ether	1	26.3086	0	20	132	53	149
cis-1,2-Dichloroethene	1	11.8172	0	20	59	45	161
Bromochloromethane	1	12.6392	0	20	63	42	170
2,2-Dichloropropane	1	12.1491	0	20	61	33	173
Ethyl acetate	1	27.4832	0	20	137	38	156
1,4-Dioxane	1	1163.444	0	1000	116	18	186
1,1-Dichloropropene	1	12.1994	0	20	61	51	157
Chloroform	1	12.495	0	20	62	47	157
Cyclohexane	1	26.6649	0	20	133	41	175
1,2-Dichloroethane	1	12.8562	0	20	64	43	154
2-Butanone	1	32.3151	0	20	162	20	188
1,1,1-Trichloroethane	1	12.1335	0	20	61	49	155
Carbon Tetrachloride	1	13.3699	0	20	67	47	159
Vinyl Acetate	1	38.5277	0	20	193*	31	160
Bromodichloromethane	1	12.5342	0	20	63	48	152
Methylcyclohexane	1	26.1254	0	20	131	47	167
Dibromomethane	1	11.0951	0	20	55	47	153
1,2-Dichloropropane	1	12.0191	0	20	60	53	153
Trichloroethene	1	12.2655	0	20	61	45	165
Benzene	1	11.694	0	20	58	41	163
tert-Amyl methyl ether	1	25.4578	0	20	127	51	146
Iso-propylacetate	1	22.4558	0	20	112	37	153
Methyl methacrylate	1	21.3229	0	20	107	40	160
Dibromochloromethane	1	10.1889	0	20	51	50	144
2-Chloroethylvinylether	1	11.1678	0	20	56	10	201
cis-1,3-Dichloropropene	1	9.9825	0	20	50	49	146
trans-1,3-Dichloropropene	1	9.8513	0	20	49	48	144
Ethyl methacrylate	1	23.2972	0	20	116	38	160
1,1,2-Trichloroethane	1	10.2728	0	20	51*	52	146
1,2-Dibromoethane	1	10.7226	0	20	54*	55	140
1,3-Dichloropropane	1	10.566	0	20	53*	54	142
4-Methyl-2-Pentanone	1	36.7236	0	20	184*	41	158
2-Hexanone	1	38.89	0	20	194*	39	163
Tetrachloroethene	1	9.6097	0	20	48	48	156
Toluene	1	10.7045	0	20	54	49	153
1,1,1,2-Tetrachloroethane	1	9.9032	0	20	50*	51	140
Chlorobenzene	1	10.436	0	20	52	43	155

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS110098

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	23.6723	0	20	118	21	181
n-Amyl acetate	1	25.2029	0	20	126	20	182
Bromoform	**1**	**9.6504**	**0**	**20**	**48**	**47**	**137**
Ethylbenzene	**1**	**9.8516**	**0**	**20**	**49**	**41**	**153**
1,1,2,2-Tetrachloroethane	**1**	**8.8153**	**0**	**20**	**44**	**36**	**152**
Styrene	**1**	**10.493**	**0**	**20**	**52**	**34**	**170**
m&p-Xylenes	**1**	**21.3078**	**0**	**40**	**53**	**16**	**184**
o-Xylene	**1**	**10.3149**	**0**	**20**	**52**	**31**	**166**
trans-1,4-Dichloro-2-butene	1	22.4162	0	20	112	10	154
1,3-Dichlorobenzene	**1**	**10.8442**	**0**	**20**	**54**	**46**	**147**
1,4-Dichlorobenzene	**1**	**9.7829**	**0**	**20**	**49**	**37**	**156**
1,2-Dichlorobenzene	**1**	**10.405**	**0**	**20**	**52**	**42**	**150**
Isopropylbenzene	**1**	**10.9925**	**0**	**20**	**55**	**32**	**174**
Cyclohexanone	1	69.6198	0	100	70	10	254
Camphene	1	19.9797	0	20	100	10	172
1,2,3-Trichloropropane	1	12.1773	0	20	61	20	164
2-Chlorotoluene	1	11.029	0	20	55	43	153
p-Ethyltoluene	1	23.0364	0	20	115	36	164
4-Chlorotoluene	1	10.826	0	20	54	34	160
n-Propylbenzene	1	10.5751	0	20	53	36	170
Bromobenzene	1	8.5926	0	20	43*	44	142
1,3,5-Trimethylbenzene	1	10.1794	0	20	51	37	165
Butyl methacrylate	1	22.5927	0	20	113	30	169
t-Butylbenzene	1	10.0403	0	20	50	48	152
1,2,4-Trimethylbenzene	1	11.6299	0	20	58	38	162
sec-Butylbenzene	1	12.3647	0	20	62	42	164
4-Isopropyltoluene	1	11.0917	0	20	55	40	162
n-Butylbenzene	1	14.1549	0	20	71	30	176
p-Diethylbenzene	1	23.7146	0	20	119	23	179
1,2,4,5-Tetramethylbenzene	1	23.9626	0	20	120	18	177
1,2-Dibromo-3-Chloropropane	**1**	**10.0688**	**0**	**20**	**50**	**32**	**154**
Camphor	1	266.1493	0	200	133	10	202
Hexachlorobutadiene	1	8.7236	0	20	44	23	181
1,2,4-Trichlorobenzene	**1**	**9.7903**	**0**	**20**	**49**	**28**	**169**
1,2,3-Trichlorobenzene	**1**	**9.0709**	**0**	**20**	**45**	**30**	**172**
Naphthalene	1	11.5733	0	20	58	13	191

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS110098

	Data File	Sample ID:	Analysis Date
Spike or Dup:	11M112493.D	AD38798-005(MSD:AD38798-0	6/26/2023 4:16:00 PM
Duplicate(If applicable):	11M112492.D	AD38798-004(MS:AD38798-003	6/26/2023 3:57:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	27.8184	24.8889	11	78
Dichlorodifluoromethane	1	2.3443	2.0232	15	62
Chloromethane	1	5.7604	5.0599	13	67
Bromomethane	1	13.7926	11.6346	17	65
Vinyl Chloride	1	10.0145	9.0673	9.9	55
Chloroethane	1	15.5319	13.9806	11	59
Trichlorofluoromethane	1	21.2137	18.9104	11	56
Ethyl ether	1	21.6749	19.1382	12	55
Furan	1	24.328	21.4363	13	55
1,1,2-Trichloro-1,2,2-trifluoroethane	1	24.8826	22.6557	9.4	58
Methylene Chloride	1	10.6076	9.7599	8.3	36
Acrolein	1	95.9936	87.7588	9	66
Acrylonitrile	1	26.9596	23.5071	14	59
Iodomethane	1	27.9419	21.6014	26	66
Acetone	1	127.347	119.9636	6	85
Carbon Disulfide	1	27.9045	26.1253	6.6	61
t-Butyl Alcohol	1	121.3288	121.397	0.06	78
n-Hexane	1	24.9461	22.2558	11	56
Di-isopropyl-ether	1	29.355	26.8689	8.8	54
1,1-Dichloroethene	1	11.401	10.0626	12	56
Methyl Acetate	1	23.9771	23.6647	1.3	71
Methyl-t-butyl ether	1	25.2423	24.286	3.9	53
1,1-Dichloroethane	1	11.6803	10.4942	11	54
trans-1,2-Dichloroethene	1	10.9638	9.7856	11	54
Ethyl-t-butyl ether	1	26.3086	24.2484	8.2	53
cis-1,2-Dichloroethene	1	11.8172	11.706	0.95	53
Bromochloromethane	1	12.6392	11.6371	8.3	54
2,2-Dichloropropane	1	12.1491	11.0543	9.4	55
Ethyl acetate	1	27.4832	22.6423	19	56
1,4-Dioxane	1	1163.444	1124.429	3.4	95
1,1-Dichloropropene	1	12.1994	10.5826	14	54
Chloroform	1	12.495	11.3295	9.8	53
Cyclohexane	1	26.6649	24.2629	9.4	55
1,2-Dichloroethane	1	12.8562	11.8394	8.2	52
2-Butanone	1	32.3151	35.2426	8.7	58
1,1,1-Trichloroethane	1	12.1335	10.9476	10	54
Carbon Tetrachloride	1	13.3699	11.2345	17	54
Vinyl Acetate	1	38.5277	35.546	8.1	55
Bromodichloromethane	1	12.5342	11.6147	7.6	53
Methylcyclohexane	1	26.1254	24.1114	8	55
Dibromomethane	1	11.0951	10.2109	8.3	53
1,2-Dichloropropane	1	12.0191	11.1563	7.4	53
Trichloroethene	1	12.2655	11.0639	10	54
Benzene	1	11.694	10.6256	9.6	52
tert-Amyl methyl ether	1	25.4578	23.8097	6.7	52
Iso-propylacetate	1	22.4558	20.7334	8	54
Methyl methacrylate	1	21.3229	19.8128	7.3	55
Dibromochloromethane	1	10.1889	9.0649	12	52
2-Chloroethylvinylether	1	11.1678	12.6724	13	224
cis-1,3-Dichloropropene	1	9.9825	9.129	8.9	53
trans-1,3-Dichloropropene	1	9.8513	9.1379	7.5	53
Ethyl methacrylate	1	23.2972	20.4436	13	55
1,1,2-Trichloroethane	1	10.2728	9.6243	6.5	52
1,2-Dibromoethane	1	10.7226	10.0172	6.8	52
1,3-Dichloropropane	1	10.566	9.4939	11	53
4-Methyl-2-Pentanone	1	36.7236	35.5742	3.2	69
2-Hexanone	1	38.89	34.4406	12	54
Tetrachloroethene	1	9.6097	8.7663	9.2	53
Toluene	1	10.7045	9.7363	9.5	53
1,1,1,2-Tetrachloroethane	1	9.9032	8.8461	11	53
Chlorobenzene	1	10.436	9.5609	8.8	53

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS110098

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	23.6723	21.3323	10	72
n-Amyl acetate	1	25.2029	22.7523	10	72
Bromoform	**1**	**9.6504**	**8.7407**	**9.9**	**54**
Ethylbenzene	**1**	**9.8516**	**8.5848**	**14**	**57**
1,1,2,2-Tetrachloroethane	**1**	**8.8153**	**8.0322**	**9.3**	**58**
Styrene	**1**	**10.493**	**9.5455**	**9.5**	**56**
m&p-Xylenes	**1**	**21.3078**	**19.4807**	**9**	**107**
o-Xylene	**1**	**10.3149**	**9.6314**	**6.9**	**55**
trans-1,4-Dichloro-2-butene	1	22.4162	19.8794	12	71
1,3-Dichlorobenzene	**1**	**10.8442**	**9.3379**	**15**	**53**
1,4-Dichlorobenzene	**1**	**9.7829**	**8.848**	**10**	**68**
1,2-Dichlorobenzene	**1**	**10.405**	**9.4136**	**10**	**53**
Isopropylbenzene	**1**	**10.9925**	**9.4947**	**15**	**53**
Cyclohexanone	1	69.6198	65.6246	5.9	77
Camphene	1	19.9797	18.0928	9.9	68
1,2,3-Trichloropropane	1	12.1773	11.1885	8.5	54
2-Chlorotoluene	1	11.029	10.0565	9.2	55
p-Ethyltoluene	1	23.0364	20.354	12	56
4-Chlorotoluene	1	10.826	9.8039	9.9	55
n-Propylbenzene	1	10.5751	9.54	10	51
Bromobenzene	1	8.5926	7.6989	11	72
1,3,5-Trimethylbenzene	1	10.1794	9.2682	9.4	56
Butyl methacrylate	1	22.5927	20.5201	9.6	83
t-Butylbenzene	1	10.0403	9.127	9.5	70
1,2,4-Trimethylbenzene	1	11.6299	10.2594	13	72
sec-Butylbenzene	1	12.3647	10.6984	14	54
4-Isopropyltoluene	1	11.0917	9.6309	14	69
n-Butylbenzene	1	14.1549	12.5289	12	55
p-Diethylbenzene	1	23.7146	21.3674	10	70
1,2,4,5-Tetramethylbenzene	1	23.9626	21.0374	13	51
1,2-Dibromo-3-Chloropropane	**1**	**10.0688**	**9.3459**	**7.4**	**56**
Camphor	1	266.1493	228.3727	15	127
Hexachlorobutadiene	1	8.7236	7.8402	11	69
1,2,4-Trichlorobenzene	**1**	**9.7903**	**8.741**	**11**	**87**
1,2,3-Trichlorobenzene	**1**	**9.0709**	**8.2517**	**9.5**	**81**
Naphthalene	1	11.5733	9.8242	16	80

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 11M112473.D
Matrix: Aqueous

Blank Analysis Date: 06/26/23 09:56
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

Sample Number	Data File	Analysis Date
AD38798-001	11M112489.D	06/26/23 15:00
AD38798-002	11M112490.D	06/26/23 15:19
AD38798-003	11M112488.D	06/26/23 14:41
AD38798-004(MS:	11M112492.D	06/26/23 15:57
AD38798-005(MSD	11M112493.D	06/26/23 16:16
AD38798-006	11M112491.D	06/26/23 15:38
AD38798-007	11M112487.D	06/26/23 14:22
MBS110098	11M112481.D	06/26/23 12:28

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 11
Data File: 11M111784.
Analysis Date: 06/13/23 01:10
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.144 to 7.151 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	16.4	6336	PASS
75	95	30	60	48.9	18918	PASS
95	95	100	100	100.0	38652	PASS
96	95	5	9	8.1	3138	PASS
173	174	0.00	2	1.1	361	PASS
174	95	50	100	88.3	34140	PASS
175	174	5	9	6.8	2330	PASS
176	174	95	101	95.6	32642	PASS
177	176	5	9	6.1	2003	PASS

Data File	Sample Number	Analysis Date:
11M111787.D	CAL @ 0.5 PPB	06/13/23 02:08
11M111788.D	CAL @ 1 PPB	06/13/23 02:27
11M111789.D	CAL @ 5 PPB	06/13/23 02:45
11M111790.D	CAL @10 PPB	06/13/23 03:04
11M111792.D	CAL @ 20PPB	06/13/23 03:42
11M111794.D	CAL @ 50 PPB	06/13/23 04:20
11M111796.D	CAL @ 100 PPB	06/13/23 04:57
11M111799.D	CAL @ 250 PPB	06/13/23 05:54
11M111803.D	CAL @ 500 PPB	06/13/23 07:10
11M111809.D	ICV	06/13/23 09:03
11M111811.D	BLK	06/13/23 09:41

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 11
Data File: 11M112466.
Analysis Date: 06/26/23 07:27
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.154 to 7.170 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	17.5	27508	PASS
75	95	30	60	50.0	78743	PASS
95	95	100	100	100.0	157372	PASS
96	95	5	9	6.3	9992	PASS
173	174	0.00	2	0.7	966	PASS
174	95	50	100	91.9	144551	PASS
175	174	5	9	7.4	10698	PASS
176	174	95	101	97.6	141104	PASS
177	176	5	9	6.5	9190	PASS

Data File	Sample Number	Analysis Date:
11M112468.D	CAL @ 20 PPB	06/26/23 08:22
11M112471.D	BLK-DI	06/26/23 09:18
11M112472.D	DAILY BLANK	06/26/23 09:37
11M112473.D	DAILY BLANK	06/26/23 09:56
11M112474.D	HCL	06/26/23 10:15
11M112475.D	AD38747-013(80uL	06/26/23 10:33
11M112479.D	AD38747-013(400u	06/26/23 11:50
11M112480.D	MBS110097	06/26/23 12:09
11M112481.D	MBS110098	06/26/23 12:28
11M112482.D	38798-003(50X)	06/26/23 12:47
11M112483.D	AD38732-005(5X)	06/26/23 13:06
11M112484.D	38733-008(50X)	06/26/23 13:25
11M112485.D	AD38732-006	06/26/23 13:44
11M112486.D	AD38751-008	06/26/23 14:03
11M112487.D	AD38798-007	06/26/23 14:22
11M112488.D	AD38798-003	06/26/23 14:41
11M112489.D	AD38798-001	06/26/23 15:00
11M112490.D	AD38798-002	06/26/23 15:19
11M112491.D	AD38798-006	06/26/23 15:38
11M112492.D	AD38798-004(MS:	06/26/23 15:57
11M112493.D	AD38798-005(MSD	06/26/23 16:16
11M112494.D	AD38753-002(80uL	06/26/23 16:35
11M112495.D	AD38751-008(MS)	06/26/23 16:54
11M112496.D	AD38751-008(MSD	06/26/23 17:13
11M112497.D	AD38790-004	06/26/23 17:32
11M112498.D	AD38790-003	06/26/23 17:51
11M112499.D	AD38790-005	06/26/23 18:10
11M112500.D	AD38790-006	06/26/23 18:29
11M112501.D	AD38790-001	06/26/23 18:47
11M112502.D	AD38790-002	06/26/23 19:06
11M112503.D	BLK	06/26/23 19:25

3062404 0101

FORM8

Internal Standard Areas

Evaluation Std Data File: 11M111792.D Method: EPA 8260D

Analysis Date/Time: 06/13/23 03:42

Lab File ID: CAL @ 20PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	506683	4.96	516373	6.54	285126	7.81								
Eval File Area Limit:	253342-1013366		258186-1032746		142563-570252									
Eval File Rt Limit:	4.46-5.46		6.04-7.04		7.31-8.309999									
Data File Sample#														
11M111787.D CAL @ 0.5 PPB	475222	4.96	492517	6.54	259267	7.81								
11M111788.D CAL @ 1 PPB	475232	4.96	492582	6.54	265257	7.81								
11M111789.D CAL @ 5 PPB	476849	4.96	476803	6.54	257595	7.81								
11M111790.D CAL @10 PPB	482140	4.96	476518	6.55	259335	7.81								
11M111792.D CAL @ 20PPB	506683	4.96	516373	6.54	285126	7.81								
11M111794.D CAL @ 50 PPB	509338	4.96	510207	6.54	285615	7.81								
11M111796.D CAL @ 100 PPB	521522	4.96	524693	6.55	283125	7.81								
11M111799.D CAL @ 250 PPB	572056	4.96	597990	6.54	279932	7.81								
11M111803.D CAL @ 500 PPB	430516	4.96	499359	6.55	334131	7.81								
11M111809.D ICV	519073	4.96	517296	6.54	286050	7.81								
11M111811.D BLK	490313	4.96	506140	6.55	269710	7.81								

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

3062404 0102

FORM8

Internal Standard Areas

Evaluation Std Data File: 11M112468.D Method: EPA 8260D

Analysis Date/Time: 06/26/23 08:22

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	450705	4.96	536611	6.54	332551	7.81								
Eval File Area Limit:	225352-901410		268306-1073222		166276-665102									
Eval File Rt Limit:	4.46-5.46		6.04-7.04		7.31-8.309999									

Data File Sample#						
11M112471.D BLK-DI	428456	4.96	521202	6.55	279006	7.81
11M112472.D DAILY BLANK	444420	4.96	523258	6.54	277720	7.81
11M112473.D DAILY BLANK	428168	4.96	522806	6.55	274091	7.81
11M112474.D HCL	427553	4.96	520162	6.55	278084	7.81
11M112475.D AD38747-013(80uL)	438767	4.96	551086	6.55	304738	7.81
11M112479.D AD38747-013(400uL)	445760	4.96	560345	6.54	409270	7.81
11M112480.D MBS110097	526062	4.96	673095	6.54	421291	7.81
11M112481.D MBS110098	474496	4.96	614059	6.54	407031	7.81
11M112482.D 38798-003(50X)	450500	4.96	566827	6.55	308051	7.81
11M112483.D AD38732-005(5X)	572245	4.96	548096	6.54	325961	7.81
11M112484.D 38733-008(50X)	444468	4.96	522074	6.55	277740	7.81
11M112485.D AD38732-006	445681	4.96	527208	6.55	294996	7.81
11M112486.D AD38751-008	430691	4.95	537640	6.54	297351	7.81
11M112487.D AD38798-007	452443	4.96	542282	6.55	288996	7.81
11M112488.D AD38798-003	431196	4.96	515876	6.55	270775	7.81
11M112489.D AD38798-001	444590	4.96	544820	6.54	281145	7.81
11M112490.D AD38798-002	428502	4.96	540405	6.54	283997	7.81
11M112491.D AD38798-006	417363	4.96	522823	6.55	275436	7.81
11M112492.D AD38798-004(MS:AD	464834	4.96	553730	6.55	318229	7.81
11M112493.D AD38798-005(MSD:A	463640	4.96	546820	6.54	314278	7.81
11M112494.D AD38753-002(80uL)	461878	4.96	559602	6.54	338659	7.81
11M112495.D AD38751-008(MS)	440292	4.96	557442	6.55	354357	7.81
11M112496.D AD38751-008(MSD)	453082	4.96	557937	6.54	358177	7.81
11M112497.D AD38790-004	436379	4.95	541674	6.54	296789	7.81
11M112498.D AD38790-003	436516	4.95	544779	6.54	303030	7.81
11M112499.D AD38790-005	446102	4.95	558588	6.54	324738	7.81
11M112500.D AD38790-006	454796	4.95	579204	6.54	322721	7.81
11M112501.D AD38790-001	468370	4.95	566124	6.54	311933	7.81
11M112502.D AD38790-002	452067	4.95	576209	6.54	426985	7.81
11M112503.D BLK	441188	4.96	562602	6.54	304944	7.81

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

GC/MS Volatile Data
Sample Data

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38798-001
Client Id: MW-1_6.22.23
Data File: 11M112489.D
Analysis Date: 06/26/23 15:00
Date Rec/Extracted: 06/23/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.66	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 697497

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

SampleID : AD38798-001 Operator : sg Qt Meth : 11M_A0613.M
Data File: 11M112489.D Sam Mult : 1 Vial# : 24 Qt On : 06/27/23 07:47
Acq On : 06/26/23 15:00 Misc : A,5ML!1 Qt Upd On: 06/13/23 18:32

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-26-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.958	96	444590	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.543	117	544820	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.810	152	281145	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.579	111	132194	30.75	ug/l	0.00
Spiked Amount 30.000			Recovery =	102.50%		
39) 1,2-Dichloroethane-d4	4.778	67	55840	31.64	ug/l	0.00
Spiked Amount 30.000			Recovery =	105.47%		
66) Toluene-d8	5.784	98	560756	27.62	ug/l	0.00
Spiked Amount 30.000			Recovery =	92.07%		
76) Bromofluorobenzene	7.164	174	233747	31.30	ug/l	0.00
Spiked Amount 30.000			Recovery =	104.33%		
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

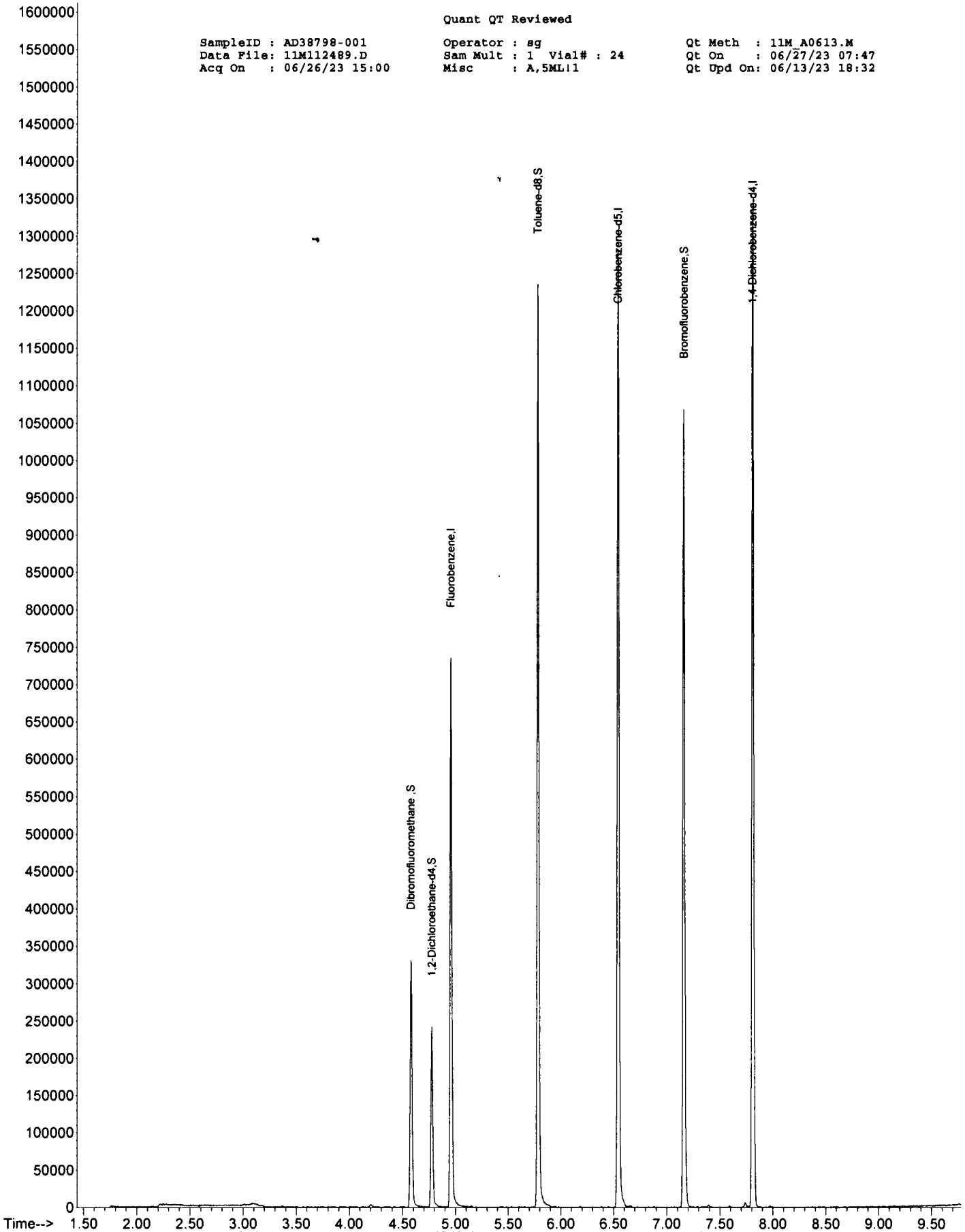
TIC: 11M112489.D\data.ms

Quant QT Reviewed

SampleID : AD38798-001
Data File: 11M112489.D
Acq On : 06/26/23 15:00

Operator : sg
Sam Mult : 1 Vial# : 24
Misc : A,5ML;1

Qt Meth : 11M_A0613.M
Qt On : 06/27/23 07:47
Qt Upd On: 06/13/23 18:32



Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38798-002
Client Id: MW-2_6.22.23
Data File: 11M112490.D
Analysis Date: 06/26/23 15:19
Date Rec/Extracted: 06/23/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.66	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 697497

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

SampleID : AD38798-002 Operator : sg Qt Meth : 11M_A0613.M
Data File: 11M112490.D Sam Mult : 1 Vial# : 25 Qt On : 06/27/23 07:47
Acq On : 06/26/23 15:19 Misc : A,5ML!1 Qt Upd On: 06/13/23 18:32

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-26-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.958	96	428502	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.543	117	540405	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.813	152	283997	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.578	111	130264	31.44	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.80%			
39) 1,2-Dichloroethane-d4	4.775	67	55379	32.55	ug/l	0.00
Spiked Amount 30.000			Recovery = 108.50%			
66) Toluene-d8	5.784	98	543081	26.97	ug/l	0.00
Spiked Amount 30.000			Recovery = 89.90%			
76) Bromofluorobenzene	7.164	174	232234	30.79	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.63%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

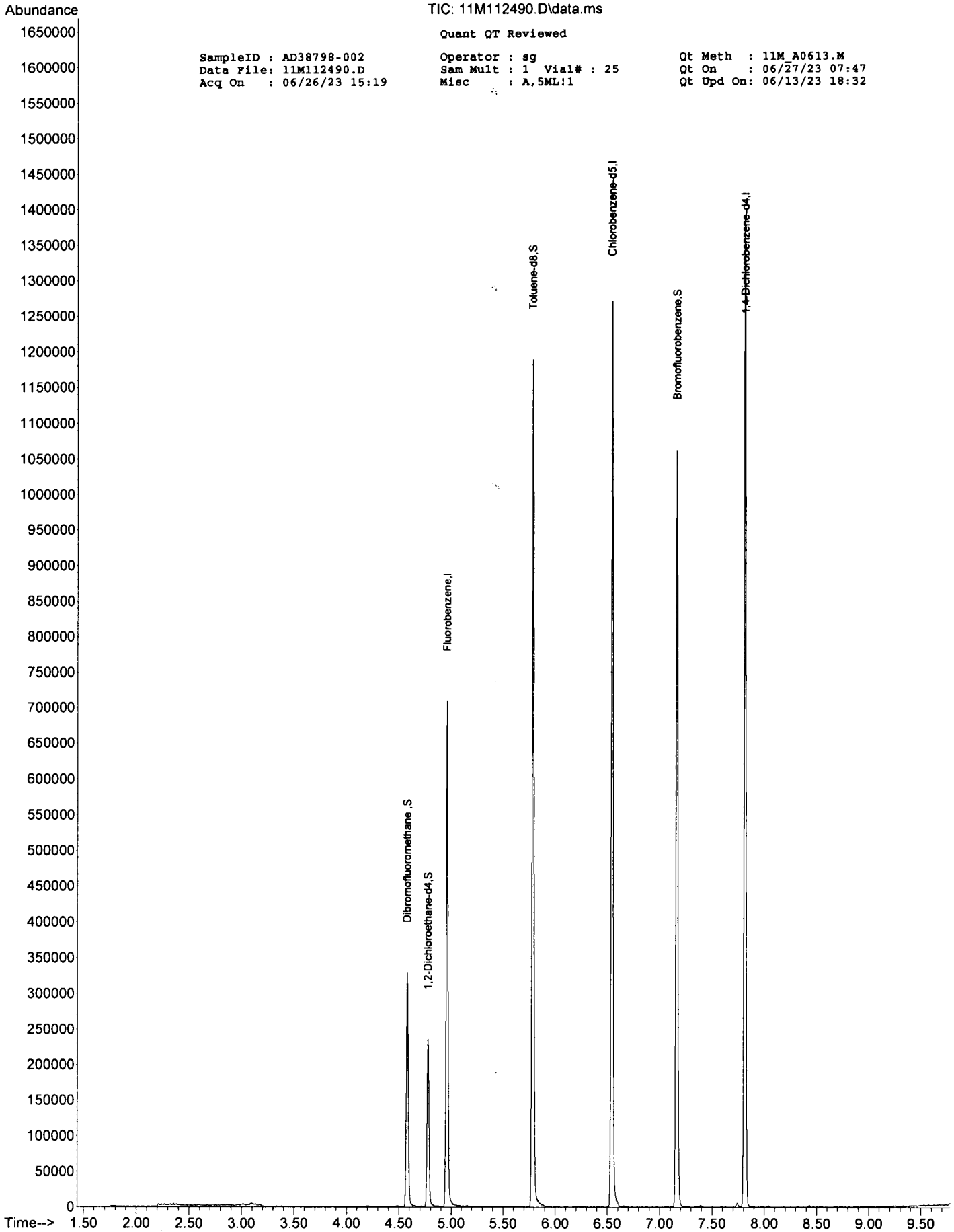
TIC: 11M112490.D\data.ms

Quant QT Reviewed

SampleID : AD38798-002
Data File: 11M112490.D
Acq On : 06/26/23 15:19

Operator : sg
Sam Mult : 1 Vial# : 25
Misc : A,5ML;1

Qt Meth : 11M_A0613.M
Qt On : 06/27/23 07:47
Qt Upd On: 06/13/23 18:32



Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38798-003
Client Id: MW-3_6.22.23
Data File: 11M112488.D
Analysis Date: 06/26/23 14:41
Date Rec/Extracted: 06/23/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.66	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 697497

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

SampleID : AD38798-003 Operator : sg Qt Meth : 11M_A0613.M
Data File: 11M112488.D Sam Mult : 1 Vial# : 23 Qt On : 06/27/23 07:47
Acq On : 06/26/23 14:41 Misc : A,5ML!1 Qt Upd On: 06/13/23 18:32

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-26-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.958	96	431196	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.546	117	515876	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.813	152	270775	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.582	111	127435	30.56	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.87%			
39) 1,2-Dichloroethane-d4	4.778	67	53483	31.24	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.13%			
66) Toluene-d8	5.787	98	535322	27.84	ug/l	0.00
Spiked Amount 30.000			Recovery = 92.80%			
76) Bromofluorobenzene	7.163	174	223865	31.13	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.77%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

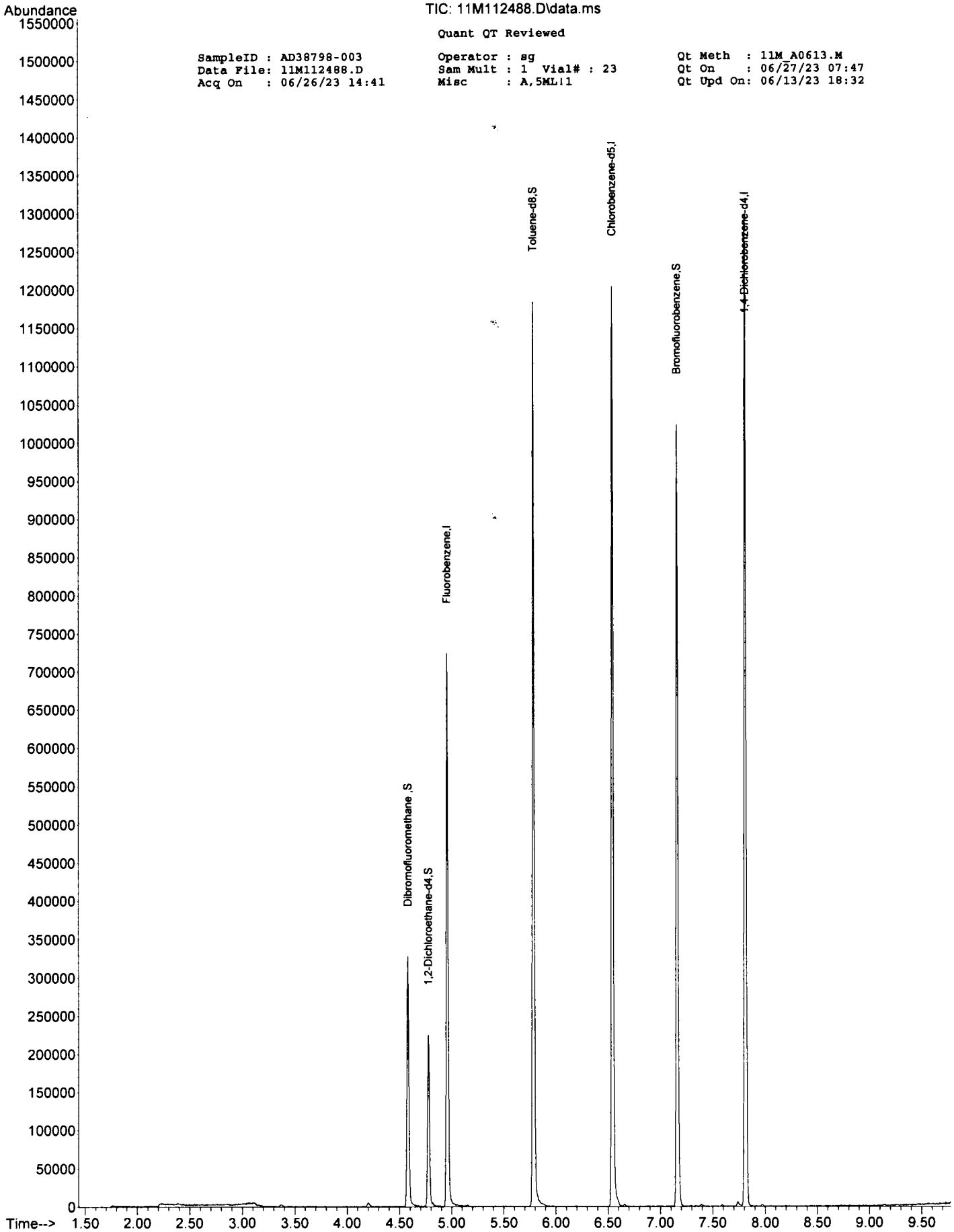
TIC: 11M112488.D\data.ms

Quant QT Reviewed

SampleID : AD38798-003
Data File: 11M112488.D
Acq On : 06/26/23 14:41

Operator : sg
Sam Mult : 1 Vial# : 23
Misc : A,5ML;1

Qt Meth : 11M_A0613.M
Qt On : 06/27/23 07:47
Qt Upd On: 06/13/23 18:32



Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38798-004(MS:AD38
Client Id: MW-2_6.22.23-MS
Data File: 11M112492.D
Analysis Date: 06/26/23 15:57
Date Rec/Extracted: 06/23/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	11	56-23-5	Carbon Tetrachloride	1.0	11
79-34-5	1,1,2,2-Tetrachloroethane	1.0	8.0	108-90-7	Chlorobenzene	1.0	9.6
76-13-1	1,1,2-Trichloro-1,2,2-triflu	1.0	23	75-00-3	Chloroethane	1.0	14
79-00-5	1,1,2-Trichloroethane	1.0	9.6	67-66-3	Chloroform	1.0	11
75-34-3	1,1-Dichloroethane	1.0	10	74-87-3	Chloromethane	1.0	5.1
75-35-4	1,1-Dichloroethene	1.0	10	156-59-2	cis-1,2-Dichloroethene	1.0	12
87-61-6	1,2,3-Trichlorobenzene	1.0	8.3	10061-01-5	cis-1,3-Dichloropropene	1.0	9.1
120-82-1	1,2,4-Trichlorobenzene	1.0	8.7	110-82-7	Cyclohexane	1.0	24
96-12-8	1,2-Dibromo-3-Chloroprop	1.0	9.3	124-48-1	Dibromochloromethane	1.0	9.1
106-93-4	1,2-Dibromoethane	1.0	10	75-71-8	Dichlorodifluoromethane	1.0	2.0
95-50-1	1,2-Dichlorobenzene	1.0	9.4	100-41-4	Ethylbenzene	1.0	8.6
107-06-2	1,2-Dichloroethane	0.66	12	98-82-8	Isopropylbenzene	1.0	9.5
78-87-5	1,2-Dichloropropane	1.0	11	79601-23-1	m&p-Xylenes	1.0	19
541-73-1	1,3-Dichlorobenzene	1.0	9.3	79-20-9	Methyl Acetate	1.0	24
106-46-7	1,4-Dichlorobenzene	1.0	8.8	108-87-2	Methylcyclohexane	1.0	24
123-91-1	1,4-Dioxane	50	1100	75-09-2	Methylene Chloride	1.0	9.8
78-93-3	2-Butanone	1.0	35	1634-04-4	Methyl-t-butyl ether	0.87	24
591-78-6	2-Hexanone	1.0	34	95-47-6	o-Xylene	1.0	9.6
108-10-1	4-Methyl-2-Pentanone	1.0	36	100-42-5	Styrene	1.0	9.5
67-64-1	Acetone	5.0	120	127-18-4	Tetrachloroethene	1.0	8.8
71-43-2	Benzene	0.50	11	108-88-3	Toluene	1.0	9.7
74-97-5	Bromochloromethane	1.0	12	156-60-5	trans-1,2-Dichloroethene	1.0	9.8
75-27-4	Bromodichloromethane	1.0	12	10061-02-6	trans-1,3-Dichloropropene	1.0	9.1
75-25-2	Bromoform	1.0	8.7	79-01-6	Trichloroethene	1.0	11
74-83-9	Bromomethane	1.0	12	75-69-4	Trichlorofluoromethane	1.0	19
75-15-0	Carbon Disulfide	1.0	26	75-01-4	Vinyl Chloride	1.0	9.1
1330-20-7	Xylenes (Total)	1.0	29				

Worksheet #: 699406 *Total Target Concentration* 1900 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

SampleID : AD38798-004(MS:AD38 Operator : sg Qt Meth : 11M_A0613.M
Data File: 11M112492.D Sam Mult : 1 Vial# : 27 Qt On : 06/27/23 07:47
Acq On : 06/26/23 15:57 Misc : A,5ML!1 Qt Upd On: 06/13/23 18:32

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-26-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.958	96	464834	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.546	117	553730	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.813	152	318229	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.579	111	141476	31.47	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.90%			
39) 1,2-Dichloroethane-d4	4.775	67	58841	31.88	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.27%			
66) Toluene-d8	5.784	98	565684	27.41	ug/l	0.00
Spiked Amount 30.000			Recovery = 91.37%			
76) Bromofluorobenzene	7.164	174	251190m	29.72	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.07%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.675	51	130101m	24.8889	ug/l	
6) Dichlorodifluoromethane	1.675	85	7487m	2.0232	ug/l	
7) Chloromethane	1.838	50	19977m	5.0599	ug/l	
8) Bromomethane	2.238	94	34609m	11.6346	ug/l	
9) Vinyl Chloride	1.940	62	43672m	9.0673	ug/l	
10) Chloroethane	2.328	64	45260m	13.9806	ug/l	
11) Trichlorofluoromethane	2.546	101	137424m	18.9104	ug/l	
12) Ethyl ether	2.778	59	56920	19.1382	ug/l	95
13) Furan	2.813	39	124372m	21.4363	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.971	101	82223m	22.6557	ug/l	
15) Methylene Chloride	3.366	84	40838m	9.7599	ug/l	
16) Acrolein	2.884	56	33244m	87.7588	ug/l	
17) Acrylonitrile	3.566	53	18058m	23.5071	ug/l	
18) Iodomethane	3.112	142	103146m	21.6014	ug/l	
19) Acetone	3.009	43	76606m	119.9636	ug/l	
20) Carbon Disulfide	3.180	76	272333m	26.1253	ug/l	
21) t-Butyl Alcohol	3.440	59	23649m	121.3970	ug/l	
22) n-Hexane	3.810	57	68323m	22.2558	ug/l	
23) Di-isopropyl-ether	3.952	45	211292m	26.8689	ug/l	
24) 1,1-Dichloroethene	2.977	61	60445m	10.0626	ug/l	
25) Methyl Acetate	3.276	43	31986m	23.6647	ug/l	
26) Methyl-t-butyl ether	3.595	73	183930m	24.2860	ug/l	
27) 1,1-Dichloroethane	3.923	63	71105m	10.4942	ug/l	
28) trans-1,2-Dichloroethene	3.601	96	43028m	9.7856	ug/l	
29) Ethyl-t-butyl ether	4.196	59	198964m	24.2484	ug/l	
30) cis-1,2-Dichloroethene	4.305	61	72947m	11.7060	ug/l	
31) Bromochloromethane	4.450	49	29739	11.6371	ug/l	93
32) 2,2-Dichloropropane	4.308	77	60539m	11.0543	ug/l	
33) Ethyl acetate	4.328	43	47076m	22.6423	ug/l	
34) 1,4-Dioxane	5.337	88	37515m	1124.4287	ug/l	
35) 1,1-Dichloropropene	4.697	75	60614m	10.5826	ug/l	
36) Chloroform	4.489	83	82493m	11.3295	ug/l	
38) Cyclohexane	4.646	56	107885m	24.2629	ug/l	
40) 1,2-Dichloroethane	4.816	62	56320m	11.8394	ug/l	
41) 2-Butanone	4.305	43	30378	35.2426	ug/l	93
42) 1,1,1-Trichloroethane	4.611	97	74038m	10.9476	ug/l	
43) Carbon Tetrachloride	4.704	117	63916m	11.2345	ug/l	
44) Vinyl Acetate	3.942	43	273833m	35.5460	ug/l	
45) Bromodichloromethane	5.408	83	57367m	11.6147	ug/l	
46) Methylcyclohexane	5.267	83	116616m	24.1114	ug/l	
47) Dibromomethane	5.341	174	29676m	10.2109	ug/l	
48) 1,2-Dichloropropane	5.276	63	41787m	11.1563	ug/l	
49) Trichloroethene	5.154	130	55128m	11.0639	ug/l	
50) Benzene	4.816	78	176885m	10.6256	ug/l	
51) tert-Amyl methyl ether	4.855	73	187594m	23.8097	ug/l	
53) Iso-propylacetate	4.813	43	100303m	20.7334	ug/l	
54) Methyl methacrylate	5.299	41	44867m	19.8128	ug/l	
55) Dibromochloromethane	6.234	129	39264m	9.0649	ug/l	
56) 2-Chloroethylvinylether	5.540	63	13559	12.6724	ug/l	96
57) cis-1,3-Dichloropropene	5.636	75	59117m	9.1290	ug/l	
58) trans-1,3-Dichloropropene	5.913	75	49709m	9.1379	ug/l	
59) Ethyl methacrylate	5.932	41	52608m	20.4436	ug/l	
60) 1,1,2-Trichloroethane	6.016	97	36423m	9.6243	ug/l	
61) 1,2-Dibromoethane	6.312	107	35681m	10.0172	ug/l	
62) 1,3-Dichloropropane	6.109	76	59543m	9.4939	ug/l	
63) 4-Methyl-2-Pentanone	5.701	43	70880m	35.5742	ug/l	
64) 2-Hexanone	6.122	43	46638m	34.4406	ug/l	
65) Tetrachloroethene	6.112	164	42819m	8.7663	ug/l	
67) Toluene	5.823	92	116889m	9.7363	ug/l	

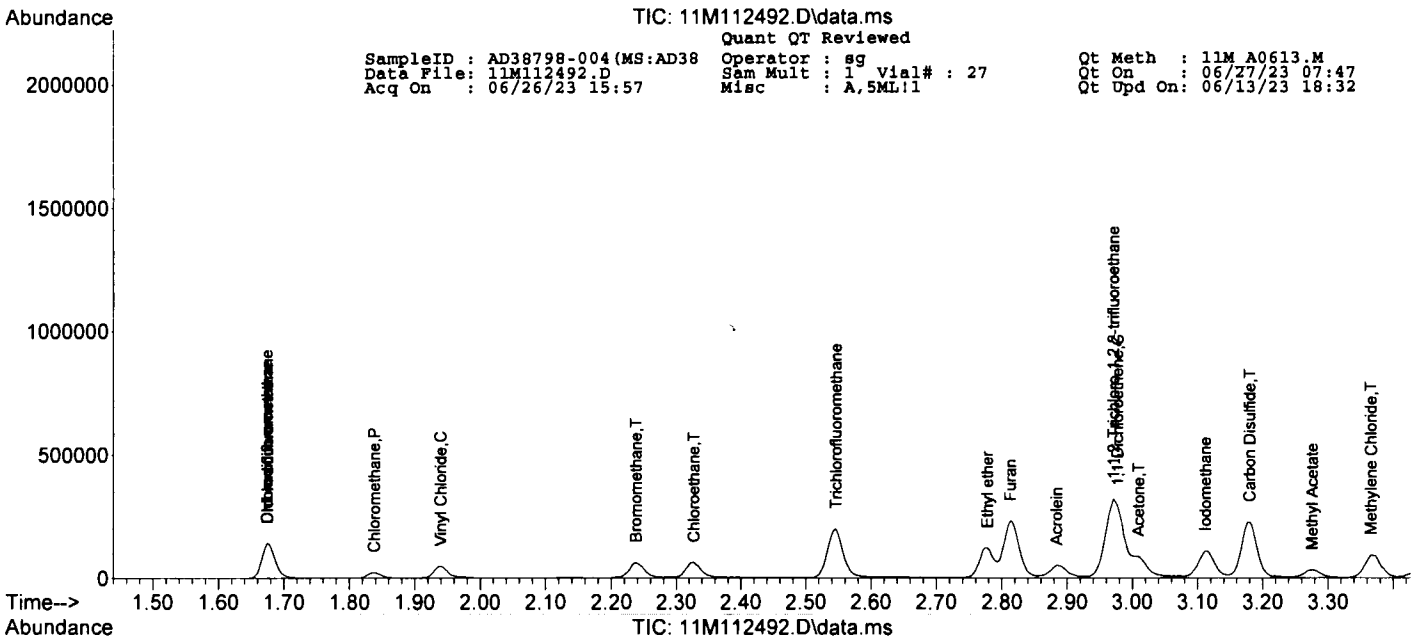
Quantitation Report (QT Reviewed)

SampleID : AD38798-004(MS:AD38 Operator : sg Qt Meth : 11M_A0613.M
Data File: 11M112492.D Sam Mult : 1 Vial# : 27 Qt On : 06/27/23 07:47
Acq On : 06/26/23 15:57 Misc : A,5ML!1 Qt Upd On: 06/13/23 18:32

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-26-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.595	133	41327m	8.8461	ug/l	
69)	Chlorobenzene	6.562	112	134427m	9.5609	ug/l	
71)	n-Butyl acrylate	6.794	55	104209m	21.3323	ug/l	
72)	n-Amyl acetate	6.910	43	91682m	22.7523	ug/l	
73)	Bromoform	7.003	173	23150	8.7407	ug/l	98
74)	Ethylbenzene	6.601	106	58512	8.5848	ug/l	91
75)	1,1,2,2-Tetrachloroethane	7.212	83	40645m	8.0322	ug/l	
77)	Styrene	6.877	104	131952m	9.5455	ug/l	
78)	m&p-Xylenes	6.656	106	168794m	19.4807	ug/l	
79)	o-Xylene	6.877	106	83171m	9.6314	ug/l	
80)	trans-1,4-Dichloro-2-b...	7.241	53	28334m	19.8794	ug/l	
81)	1,3-Dichlorobenzene	7.781	146	90424	9.3379	ug/l	98
82)	1,4-Dichlorobenzene	7.826	146	92373	8.8480	ug/l	99
83)	1,2-Dichlorobenzene	8.048	146	81391m	9.4136	ug/l	
84)	Isopropylbenzene	7.064	105	184628m	9.4947	ug/l	
85)	Cyclohexanone	7.138	55	8657m	65.6246	ug/l	
86)	Camphene	7.238	93	95145m	18.0928	ug/l	
87)	1,2,3-Trichloropropane	7.254	75	56076m	11.1885	ug/l	
88)	2-Chlorotoluene	7.360	91	125021m	10.0565	ug/l	
89)	p-Ethyltoluene	7.344	105	413628m	20.3540	ug/l	
90)	4-Chlorotoluene	7.414	91	120248m	9.8039	ug/l	
91)	n-Propylbenzene	7.289	91	219800m	9.5400	ug/l	
92)	Bromobenzene	7.263	77	88689m	7.6989	ug/l	
93)	1,3,5-Trimethylbenzene	7.373	105	146048	9.2682	ug/l	99
94)	Butyl methacrylate	7.376	41	73475m	20.5201	ug/l	
95)	t-Butylbenzene	7.569	119	137492m	9.1270	ug/l	
96)	1,2,4-Trimethylbenzene	7.591	105	156915m	10.2594	ug/l	
97)	sec-Butylbenzene	7.691	105	174544m	10.6984	ug/l	
98)	4-Isopropyltoluene	7.758	119	146031m	9.6309	ug/l	
99)	n-Butylbenzene	7.993	91	177799m	12.5289	ug/l	
100)	p-Diethylbenzene	7.977	119	170973	21.3674	ug/l	87
101)	1,2,4,5-Tetramethylben...	8.437	119	210587m	21.0374	ug/l	
102)	1,2-Dibromo-3-Chloropr...	8.492	157	6159	9.3459	ug/l	91
103)	Camphor	8.929	95	39060m	228.3727	ug/l	
104)	Hexachlorobutadiene	9.070	225	16093	7.8402	ug/l	99
105)	1,2,4-Trichlorobenzene	8.987	180	30526	8.7410	ug/l	97
106)	1,2,3-Trichlorobenzene	9.289	180	18884	8.2517	ug/l	96
107)	Naphthalene	9.147	128	51025m	9.8242	ug/l	

(#) = qualifier out of range (m) = manual integration (+) = signals summed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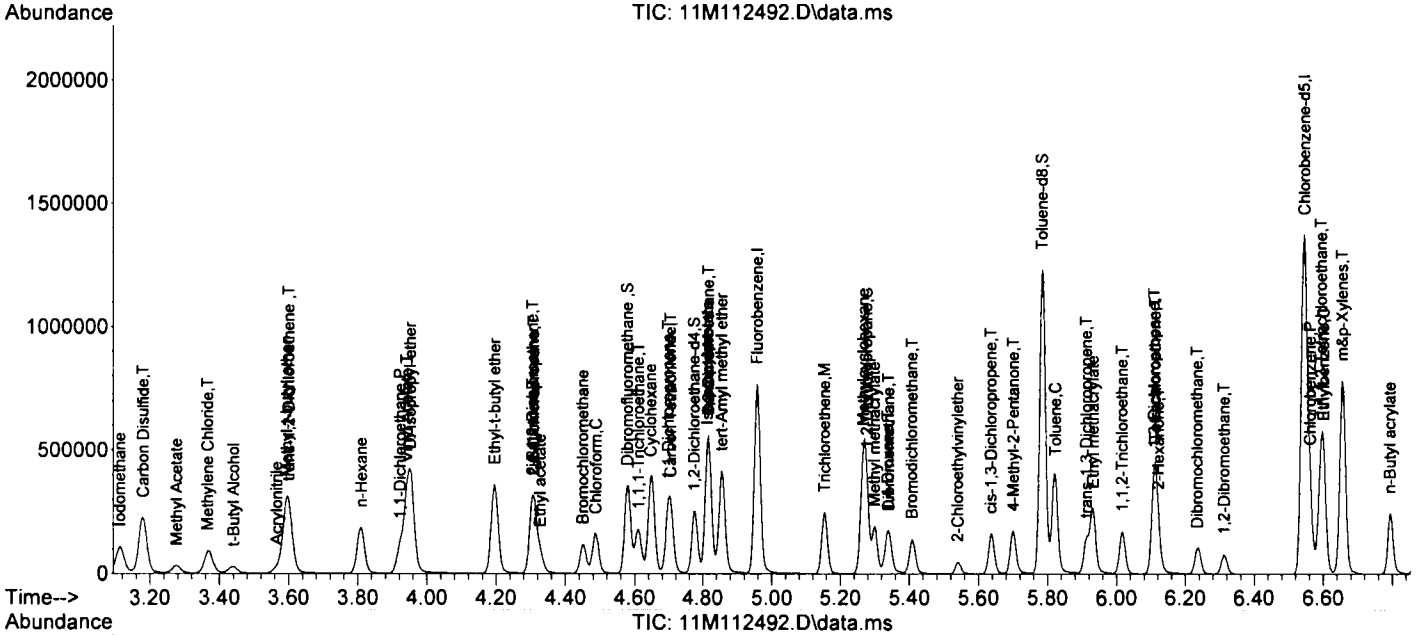
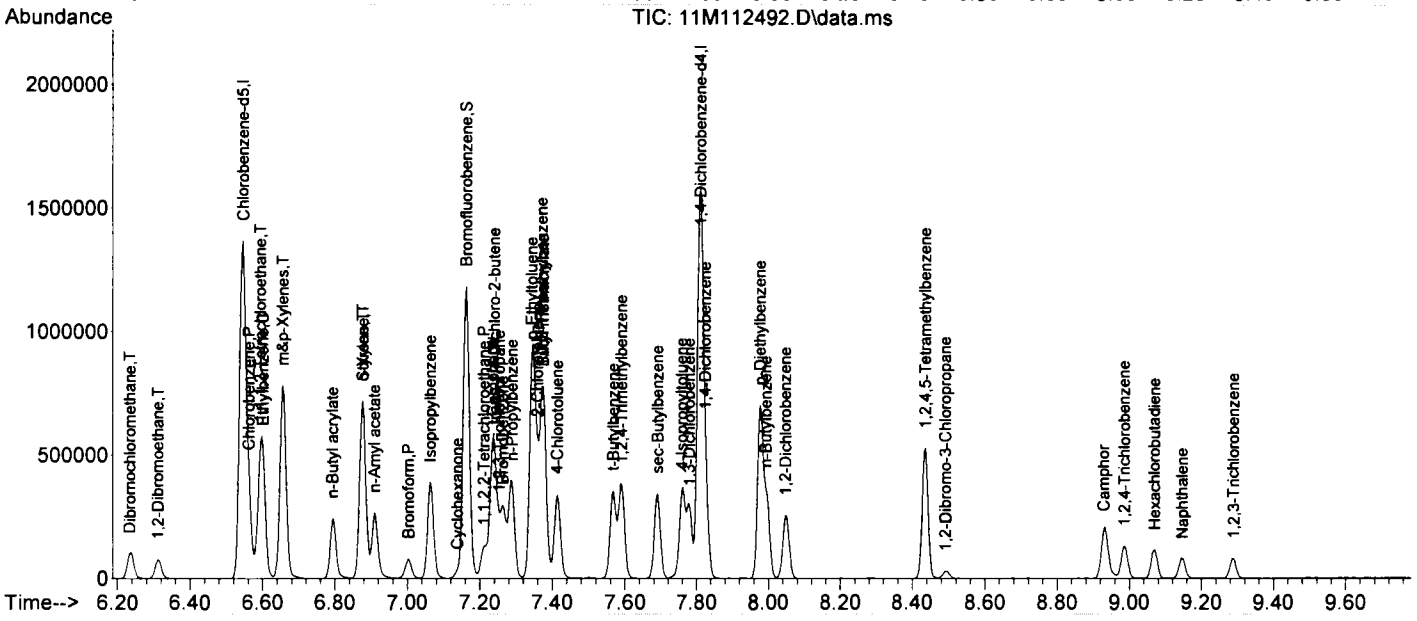
Quant QT Reviewed
SampleID : AD38798-004(MS:AD38
Data File: 11M112492.D
Acq On : 06/26/23 15:57
Operator : sg
Sam Mult : 1 Vial# : 27
Misc : A,5ML;1
Qt Meth : 11M_A0613.M
Qt On : 06/27/23 07:47
Qt Upd On: 06/13/23 18:32
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
Time-->


Abundance
TIC: 11M112492.D\data.ms
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Fluorobenzene,I
Trichloroethene,M
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
n-Butyl acrylate
Time-->


Abundance
TIC: 11M112492.D\data.ms
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Ethylbenzene,P
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
4-Chlorotoluene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,4-Dichlorobenzene
n-Diethylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38798-005(MSD:AD
Client Id: MW-2_6.22.23-MSD
Data File: 11M112493.D
Analysis Date: 06/26/23 16:16
Date Rec/Extracted: 06/23/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	12	56-23-5	Carbon Tetrachloride	1.0	13
79-34-5	1,1,2,2-Tetrachloroethane	1.0	8.8	108-90-7	Chlorobenzene	1.0	10
76-13-1	1,1,2-Trichloro-1,2,2-triflu	1.0	25	75-00-3	Chloroethane	1.0	16
79-00-5	1,1,2-Trichloroethane	1.0	10	67-66-3	Chloroform	1.0	12
75-34-3	1,1-Dichloroethane	1.0	12	74-87-3	Chloromethane	1.0	5.8
75-35-4	1,1-Dichloroethene	1.0	11	156-59-2	cis-1,2-Dichloroethene	1.0	12
87-61-6	1,2,3-Trichlorobenzene	1.0	9.1	10061-01-5	cis-1,3-Dichloropropene	1.0	10
120-82-1	1,2,4-Trichlorobenzene	1.0	9.8	110-82-7	Cyclohexane	1.0	27
96-12-8	1,2-Dibromo-3-Chloroprop	1.0	10	124-48-1	Dibromochloromethane	1.0	10
106-93-4	1,2-Dibromoethane	1.0	11	75-71-8	Dichlorodifluoromethane	1.0	2.3
95-50-1	1,2-Dichlorobenzene	1.0	10	100-41-4	Ethylbenzene	1.0	9.9
107-06-2	1,2-Dichloroethane	0.66	13	98-82-8	Isopropylbenzene	1.0	11
78-87-5	1,2-Dichloropropane	1.0	12	79601-23-1	m&p-Xylenes	1.0	21
541-73-1	1,3-Dichlorobenzene	1.0	11	79-20-9	Methyl Acetate	1.0	24
106-46-7	1,4-Dichlorobenzene	1.0	9.8	108-87-2	Methylcyclohexane	1.0	26
123-91-1	1,4-Dioxane	50	1200	75-09-2	Methylene Chloride	1.0	11
78-93-3	2-Butanone	1.0	32	1634-04-4	Methyl-t-butyl ether	0.87	25
591-78-6	2-Hexanone	1.0	39	95-47-6	o-Xylene	1.0	10
108-10-1	4-Methyl-2-Pentanone	1.0	37	100-42-5	Styrene	1.0	10
67-64-1	Acetone	5.0	130	127-18-4	Tetrachloroethene	1.0	9.6
71-43-2	Benzene	0.50	12	108-88-3	Toluene	1.0	11
74-97-5	Bromochloromethane	1.0	13	156-60-5	trans-1,2-Dichloroethene	1.0	11
75-27-4	Bromodichloromethane	1.0	13	10061-02-6	trans-1,3-Dichloropropene	1.0	9.9
75-25-2	Bromoform	1.0	9.7	79-01-6	Trichloroethene	1.0	12
74-83-9	Bromomethane	1.0	14	75-69-4	Trichlorofluoromethane	1.0	21
75-15-0	Carbon Disulfide	1.0	28	75-01-4	Vinyl Chloride	1.0	10
1330-20-7	Xylenes (Total)	1.0	31				

Worksheet #: 699406 *Total Target Concentration* 2100 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

SampleID : AD38798-005(MSD:AD3 Operator : sg Qt Meth : 11M_A0613.M
Data File: 11M112493.D Sam Mult : 1 Vial# : 28 Qt On : 06/27/23 07:47
Acq On : 06/26/23 16:16 Misc : A,5ML!1 Qt Upd On: 06/13/23 18:32

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-26-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.958	96	463640	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.543	117	546820	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.813	152	314278m	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.582	111	139316	31.07	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.57%			
39) 1,2-Dichloroethane-d4	4.778	67	55834	30.33	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.10%			
66) Toluene-d8	5.784	98	576298m	28.28	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.27%			
76) Bromofluorobenzene	7.164	174	259602m	31.10	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.67%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.678	51	145041m	27.8184	ug/l	
6) Dichlorodifluoromethane	1.675	85	8653	2.3443	ug/l	95
7) Chloromethane	1.838	50	22684m	5.7604	ug/l	
8) Bromomethane	2.238	94	40923m	13.7926	ug/l	
9) Vinyl Chloride	1.940	62	48110m	10.0145	ug/l	
10) Chloroethane	2.328	64	50153m	15.5319	ug/l	
11) Trichlorofluoromethane	2.546	101	153766m	21.2137	ug/l	
12) Ethyl ether	2.775	59	64299m	21.6749	ug/l	
13) Furan	2.817	39	140787m	24.3280	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.971	101	90073m	24.8826	ug/l	
15) Methylene Chloride	3.370	84	44271m	10.6076	ug/l	
16) Acrolein	2.890	56	36270m	95.9936	ug/l	
17) Acrylonitrile	3.566	53	20657m	26.9596	ug/l	
18) Iodomethane	3.112	142	134498m	27.9419	ug/l	
19) Acetone	3.009	43	81112m	127.3470	ug/l	
20) Carbon Disulfide	3.180	76	290132m	27.9045	ug/l	
21) t-Butyl Alcohol	3.437	59	23575m	121.3288	ug/l	
22) n-Hexane	3.810	57	76385m	24.9461	ug/l	
23) Di-isopropyl-ether	3.955	45	230250m	29.3550	ug/l	
24) 1,1-Dichloroethene	2.977	61	68309m	11.4010	ug/l	
25) Methyl Acetate	3.276	43	32325	23.9771	ug/l	100
26) Methyl-t-butyl ether	3.598	73	190681m	25.2423	ug/l	
27) 1,1-Dichloroethane	3.923	63	78938m	11.6803	ug/l	
28) trans-1,2-Dichloroethene	3.601	96	48085m	10.9638	ug/l	
29) Ethyl-t-butyl ether	4.196	59	215314m	26.3086	ug/l	
30) cis-1,2-Dichloroethene	4.305	61	73451m	11.8172	ug/l	
31) Bromochloromethane	4.450	49	32217	12.6392	ug/l	87
32) 2,2-Dichloropropane	4.308	77	66364m	12.1491	ug/l	
33) Ethyl acetate	4.328	43	56994m	27.4832	ug/l	
34) 1,4-Dioxane	5.337	88	38717m	1163.4444	ug/l	
35) 1,1-Dichloropropene	4.697	75	69695m	12.1994	ug/l	
36) Chloroform	4.489	83	90746m	12.4950	ug/l	
38) Cyclohexane	4.649	56	118261m	26.6649	ug/l	
40) 1,2-Dichloroethane	4.820	62	61000m	12.8562	ug/l	
41) 2-Butanone	4.305	43	27783m	32.3151	ug/l	
42) 1,1,1-Trichloroethane	4.611	97	81848m	12.1335	ug/l	
43) Carbon Tetrachloride	4.707	117	75869	13.3699	ug/l	97
44) Vinyl Acetate	3.945	43	296041m	38.5277	ug/l	
45) Bromodichloromethane	5.411	83	61750m	12.5342	ug/l	
46) Methylcyclohexane	5.267	83	126032m	26.1254	ug/l	
47) Dibromomethane	5.341	174	32163m	11.0951	ug/l	
48) 1,2-Dichloropropane	5.276	63	44903m	12.0191	ug/l	
49) Trichloroethene	5.154	130	60958m	12.2655	ug/l	
50) Benzene	4.820	78	194171m	11.6940	ug/l	
51) tert-Amyl methyl ether	4.855	73	200064m	25.4578	ug/l	
53) Iso-propylacetate	4.813	43	107280m	22.4558	ug/l	
54) Methyl methacrylate	5.299	41	47684m	21.3229	ug/l	
55) Dibromochloromethane	6.234	129	43582m	10.1889	ug/l	
56) 2-Chloroethylvinylether	5.543	63	11800m	11.1678	ug/l	
57) cis-1,3-Dichloropropene	5.636	75	63837m	9.9825	ug/l	
58) trans-1,3-Dichloropropene	5.913	75	52921m	9.8513	ug/l	
59) Ethyl methacrylate	5.932	41	59203m	23.2972	ug/l	
60) 1,1,2-Trichloroethane	6.016	97	38392m	10.2728	ug/l	
61) 1,2-Dibromoethane	6.312	107	37717m	10.7226	ug/l	
62) 1,3-Dichloropropane	6.109	76	65440m	10.5660	ug/l	
63) 4-Methyl-2-Pentanone	5.701	43	72257m	36.7236	ug/l	
64) 2-Hexanone	6.122	43	52006m	38.8900	ug/l	
65) Tetrachloroethene	6.112	164	46353m	9.6097	ug/l	
67) Toluene	5.823	92	126910m	10.7045	ug/l	

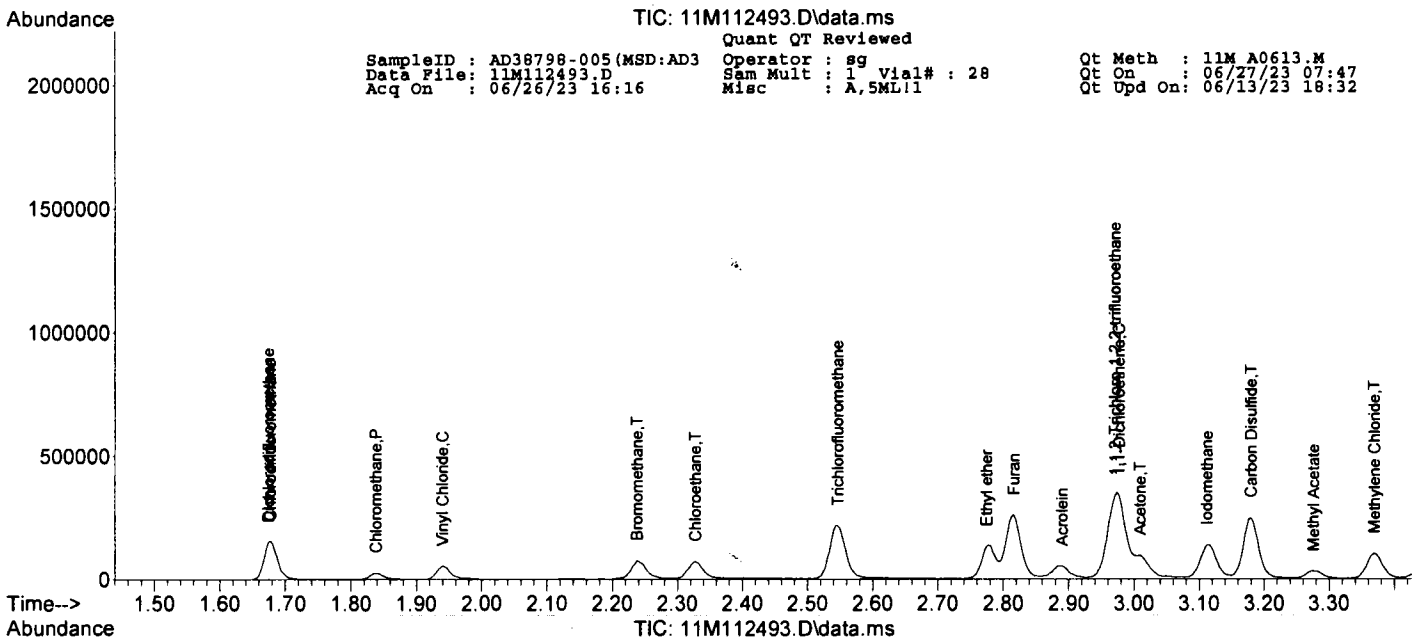
Quantitation Report (QT Reviewed)

SampleID : AD38798-005(MSD:AD3 Operator : sg Qt Meth : 11M_A0613.M
Data File: 11M112493.D Sam Mult : 1 Vial# : 28 Qt On : 06/27/23 07:47
Acq On : 06/26/23 16:16 Misc : A,5ML!1 Qt Upd On: 06/13/23 18:32

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-26-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.595	133	45688m	9.9032	ug/l	
69)	Chlorobenzene	6.559	112	144901m	10.4360	ug/l	
71)	n-Butyl acrylate	6.797	55	114204m	23.6723	ug/l	
72)	n-Amyl acetate	6.910	43	100296m	25.2029	ug/l	
73)	Bromoform	7.000	173	25242	9.6504	ug/l	95
74)	Ethylbenzene	6.601	106	66312	9.8516	ug/l	95
75)	1,1,2,2-Tetrachloroethane	7.212	83	43991m	8.8153	ug/l	
77)	Styrene	6.877	104	143249m	10.4930	ug/l	
78)	m&p-Xylenes	6.656	106	182333	21.3078	ug/l	98
79)	o-Xylene	6.877	106	87967m	10.3149	ug/l	
80)	trans-1,4-Dichloro-2-b...	7.238	53	31553m	22.4162	ug/l	
81)	1,3-Dichlorobenzene	7.781	146	103707m	10.8442	ug/l	
82)	1,4-Dichlorobenzene	7.826	146	100866m	9.7829	ug/l	
83)	1,2-Dichlorobenzene	8.051	146	88846m	10.4050	ug/l	
84)	Isopropylbenzene	7.064	105	211098m	10.9925	ug/l	
85)	Cyclohexanone	7.141	55	9070m	69.6198	ug/l	
86)	Camphene	7.238	93	103763m	19.9797	ug/l	
87)	1,2,3-Trichloropropane	7.247	75	60274m	12.1773	ug/l	
88)	2-Chlorotoluene	7.357	91	135409m	11.0290	ug/l	
89)	p-Ethyltoluene	7.347	105	462328m	23.0364	ug/l	
90)	4-Chlorotoluene	7.414	91	131136m	10.8260	ug/l	
91)	n-Propylbenzene	7.286	91	240623m	10.5751	ug/l	
92)	Bromobenzene	7.267	77	97755m	8.5926	ug/l	
93)	1,3,5-Trimethylbenzene	7.373	105	158415m	10.1794	ug/l	
94)	Butyl methacrylate	7.376	41	79892m	22.5927	ug/l	
95)	t-Butylbenzene	7.569	119	149372m	10.0403	ug/l	
96)	1,2,4-Trimethylbenzene	7.591	105	175667m	11.6299	ug/l	
97)	sec-Butylbenzene	7.688	105	199225m	12.3647	ug/l	
98)	4-Isopropyltoluene	7.758	119	166092m	11.0917	ug/l	
99)	n-Butylbenzene	7.993	91	198381m	14.1549	ug/l	
100)	p-Diethylbenzene	7.980	119	187398m	23.7146	ug/l	
101)	1,2,4,5-Tetramethylben...	8.437	119	236890	23.9626	ug/l	100
102)	1,2-Dibromo-3-Chloropr...	8.495	157	6553	10.0688	ug/l	89
103)	Camphor	8.932	95	44956m	266.1493	ug/l	
104)	Hexachlorobutadiene	9.070	225	17684	8.7236	ug/l	99
105)	1,2,4-Trichlorobenzene	8.990	180	33766	9.7903	ug/l	97
106)	1,2,3-Trichlorobenzene	9.286	180	20501m	9.0709	ug/l	
107)	Naphthalene	9.147	128	59376	11.5733	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed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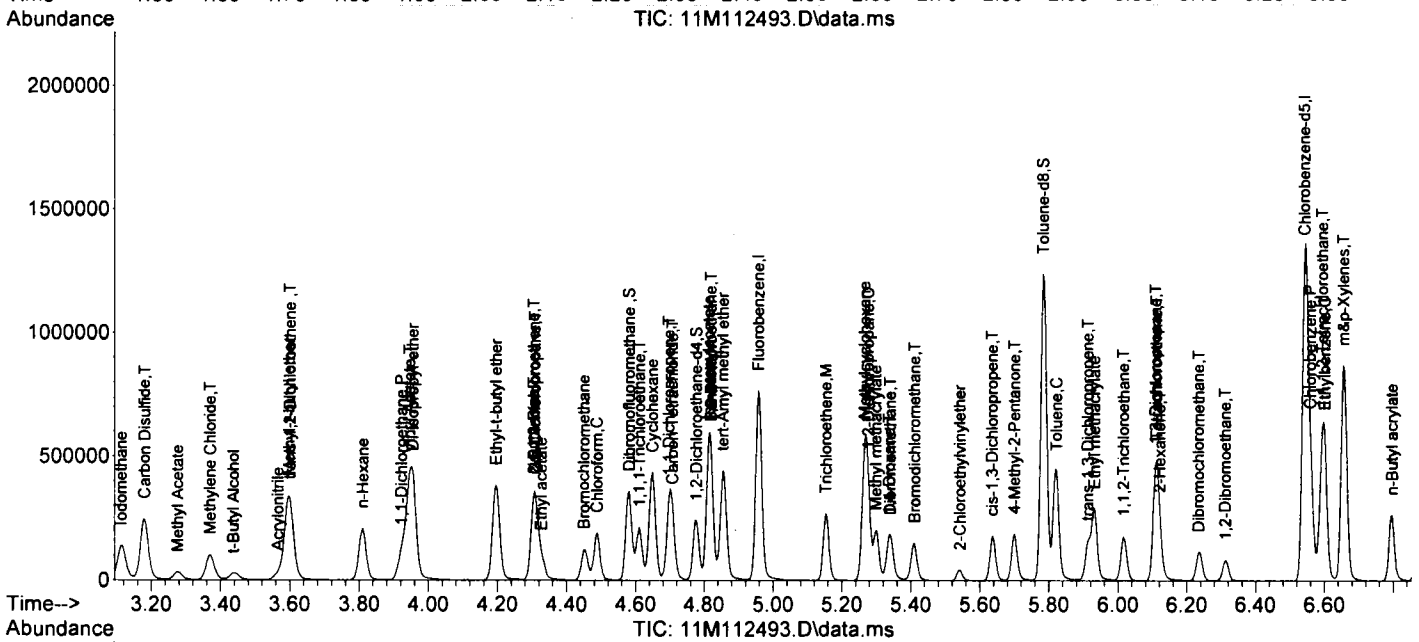
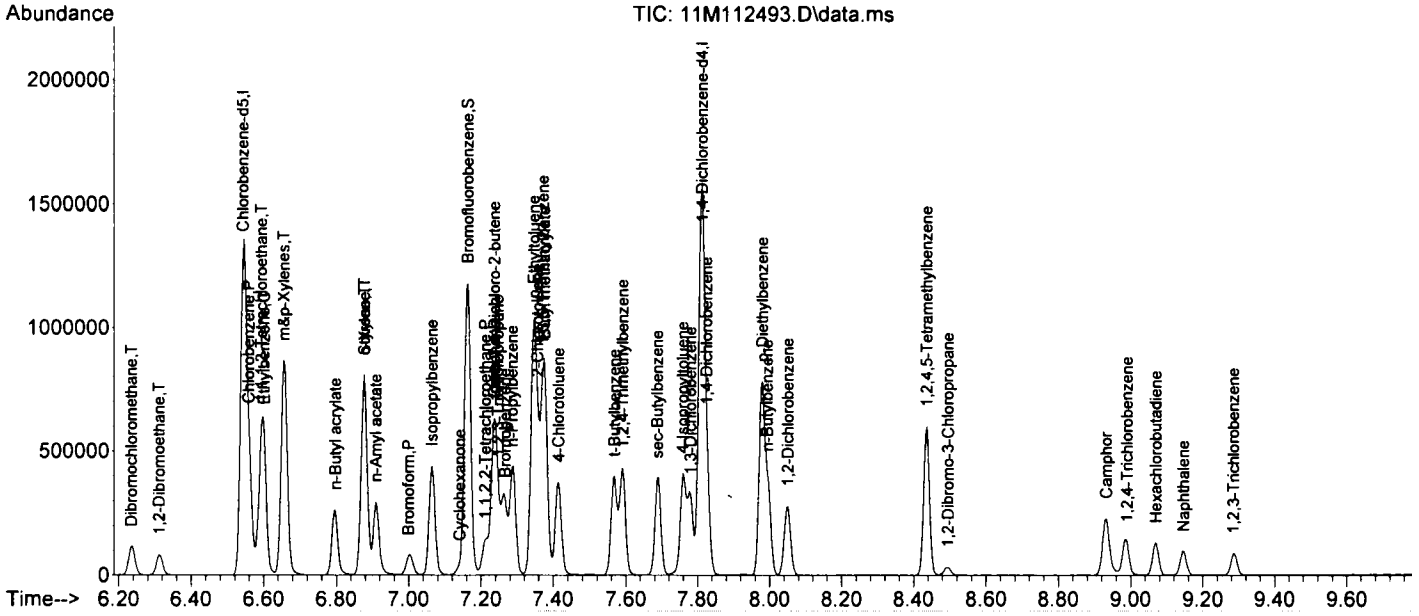
Quant QT Reviewed
SampleID : AD38798-005(MSD:AD3
Data File: 11M112493.D
Acq On : 06/26/23 16:16
Operator : sg
Sam Mult : 1 Vial# : 28
Misc : A,5ML;1
Qt Meth : 11M_A0613.M
Qt On : 06/27/23 07:47
Qt Upd On: 06/13/23 18:32
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
Time-->


Abundance
TIC: 11M112493.D\data.ms
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
Time-->


Abundance
TIC: 11M112493.D\data.ms
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
4-Chlorotoluene
1,4-Dichlorobenzene-d4,I
sec-Butylbenzene
n-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38798-006
Client Id: DUP-1
Data File: 11M112491.D
Analysis Date: 06/26/23 15:38
Date Rec/Extracted: 06/23/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.66	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 697497

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

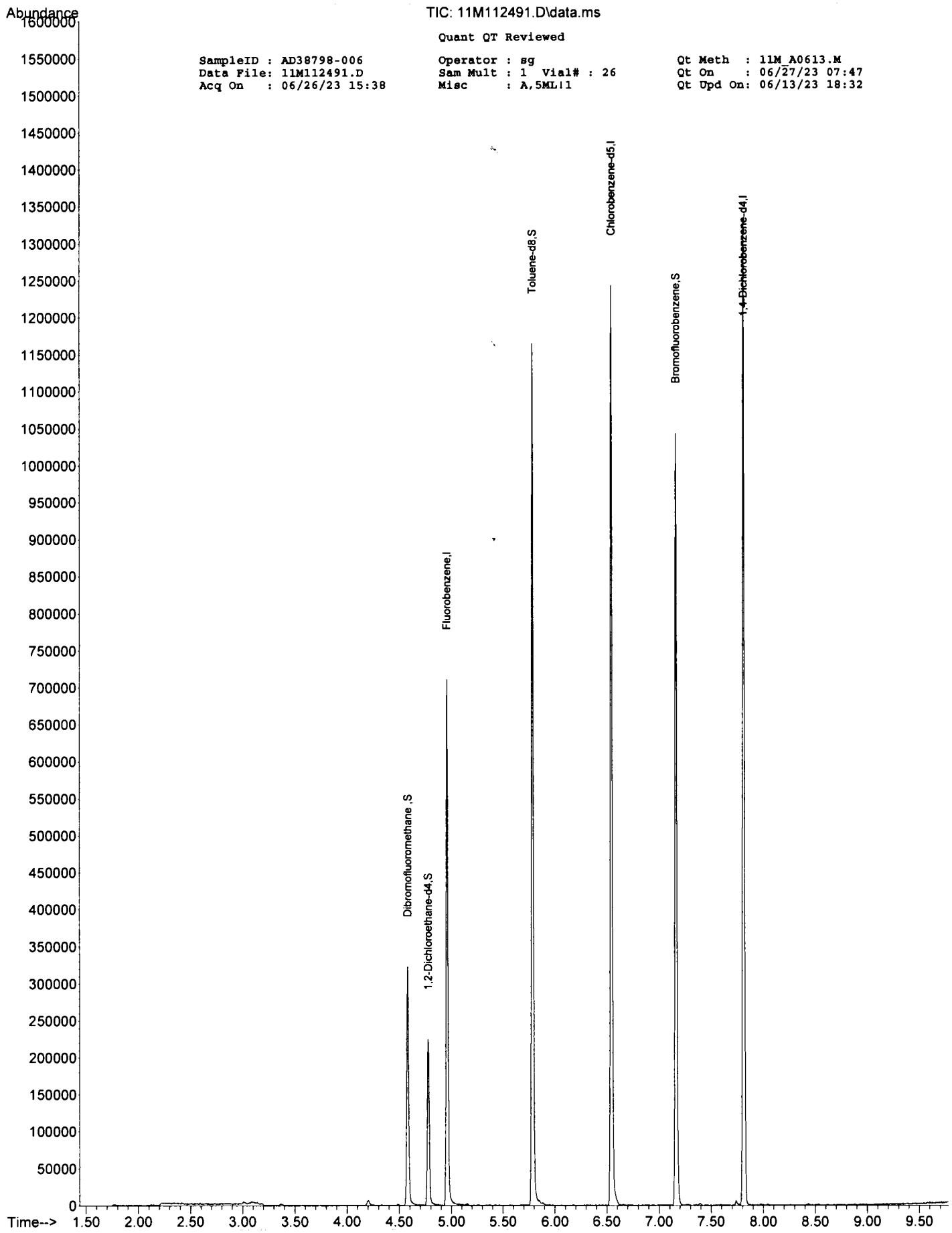
Quantitation Report (QT Reviewed)

SampleID : AD38798-006 Operator : sg Qt Meth : 11M_A0613.M
Data File: 11M112491.D Sam Mult : 1 Vial# : 26 Qt On : 06/27/23 07:47
Acq On : 06/26/23 15:38 Misc : A,5ML!1 Qt Upd On: 06/13/23 18:32

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-26-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.958	96	417363	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.546	117	522823	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.813	152	275436	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.582	111	129264	32.03	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.77%			
39) 1,2-Dichloroethane-d4	4.778	67	52737	31.83	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.10%			
66) Toluene-d8	5.787	98	528709	27.13	ug/l	0.00
Spiked Amount 30.000			Recovery = 90.43%			
76) Bromofluorobenzene	7.163	174	225579	30.84	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.80%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 11M112491.D\data.ms
Quant QT Reviewed
SampleID : AD38798-006
Data File: 11M112491.D
Acq On : 06/26/23 15:38
Operator : sg
Sam Mult : 1 Vial# : 26
Misc : A,5ML,1
Qt Meth : 11M_A0613.M
Qt On : 06/27/23 07:47
Qt Upd On: 06/13/23 18:32
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38798-007
Client Id: Field Blank
Data File: 11M112487.D
Analysis Date: 06/26/23 14:22
Date Rec/Extracted: 06/23/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.66	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	**75-09-2**	**Methylene Chloride**	**1.0**	**2.1**
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	**Acetone**	**5.0**	**12**	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

SampleID : AD38798-007 Operator : sg Qt Meth : 11M_A0613.M
Data File: 11M112487.D Sam Mult : 1 Vial# : 22 Qt On : 06/27/23 07:47
Acq On : 06/26/23 14:22 Misc : A,5ML!1 Qt Upd On: 06/13/23 18:32

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-26-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.958	96	452443	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.546	117	542282	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.813	152	288996	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.579	111	132850	30.36	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.20%			
39) 1,2-Dichloroethane-d4	4.775	67	57410	31.96	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.53%			
66) Toluene-d8	5.784	98	559994	27.71	ug/l	0.00
Spiked Amount 30.000			Recovery = 92.37%			
76) Bromofluorobenzene	7.164	174	233303	30.40	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.33%			
Target Compounds						Qvalue
15) Methylene Chloride	3.370	84	8435m	2.0711	ug/l	
19) Acetone	3.010	43	7150	11.5034	ug/l	84

(#) = qualifier out of range (m) = manual integration (+) = signals summed

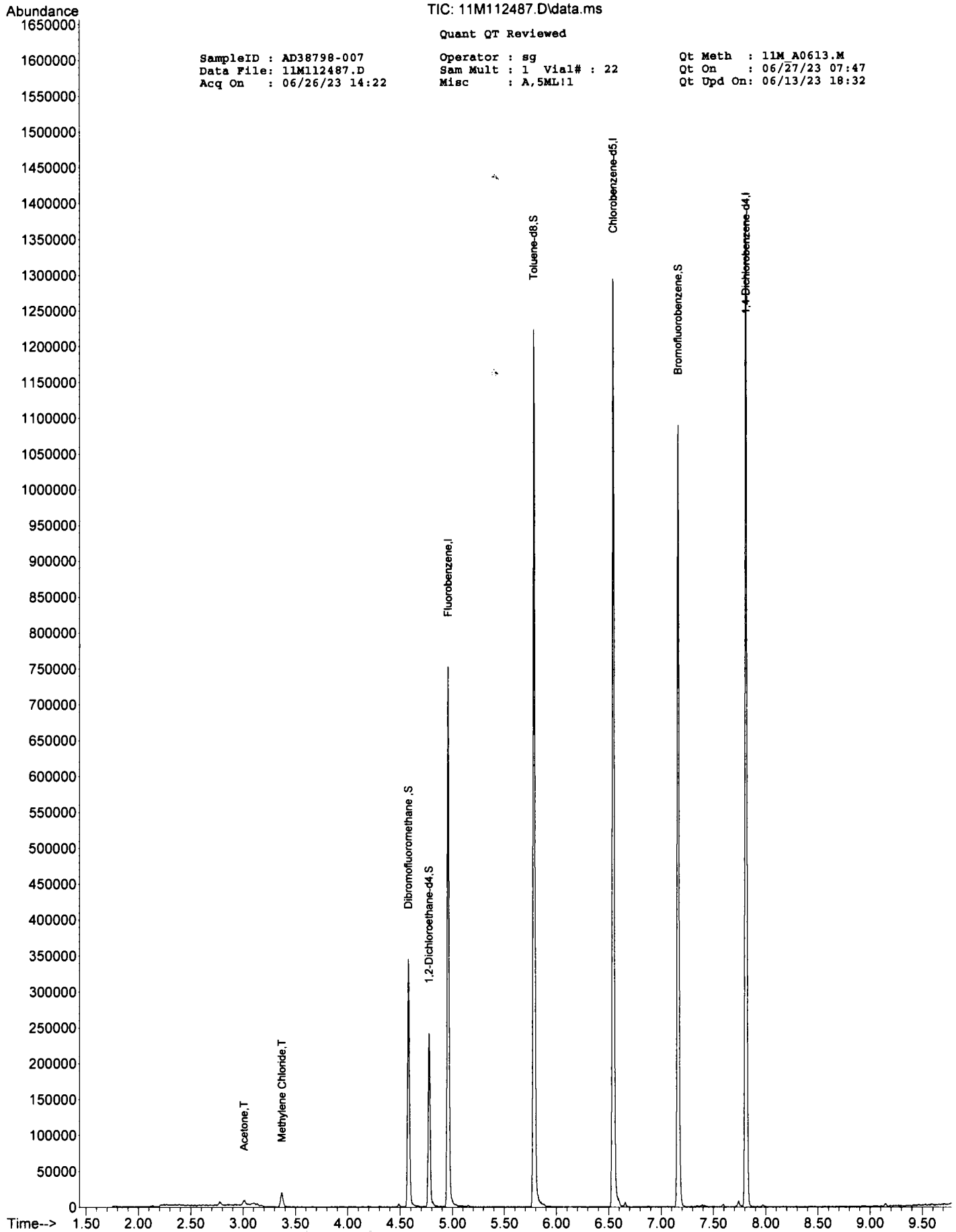
TIC: 11M112487.D\data.ms

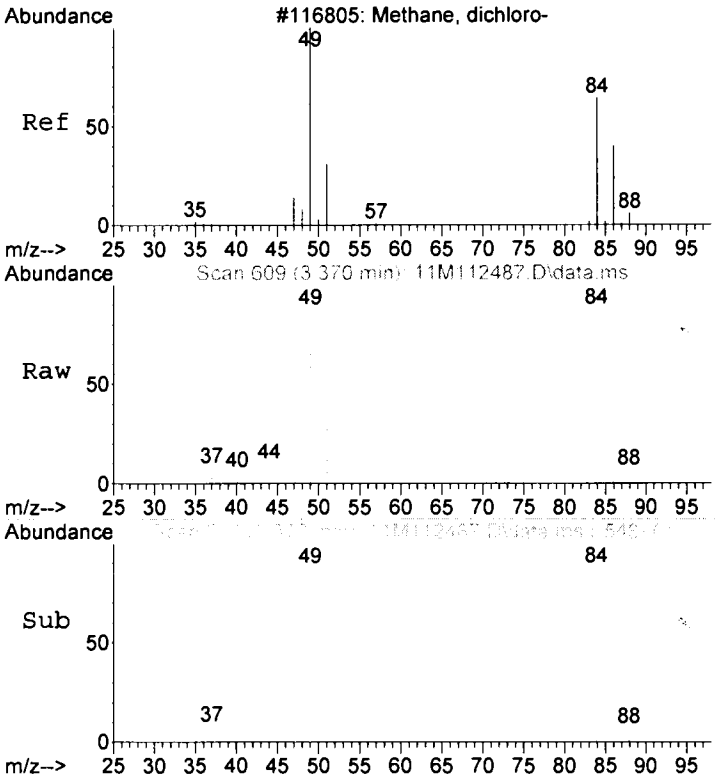
Quant QT Reviewed

SampleID : AD38798-007
Data File: 11M112487.D
Acq On : 06/26/23 14:22

Operator : sg
Sam Mult : 1 Vial# : 22
Misc : A,5ML!1

Qt Meth : 11M_A0613.M
Qt On : 06/27/23 07:47
Qt Upd On: 06/13/23 18:32

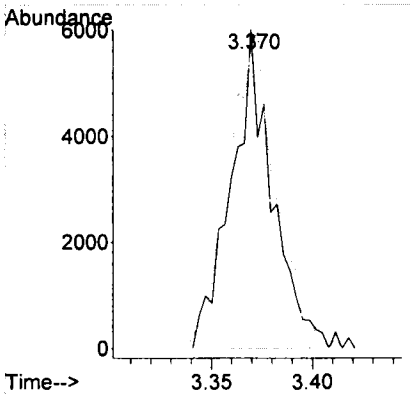


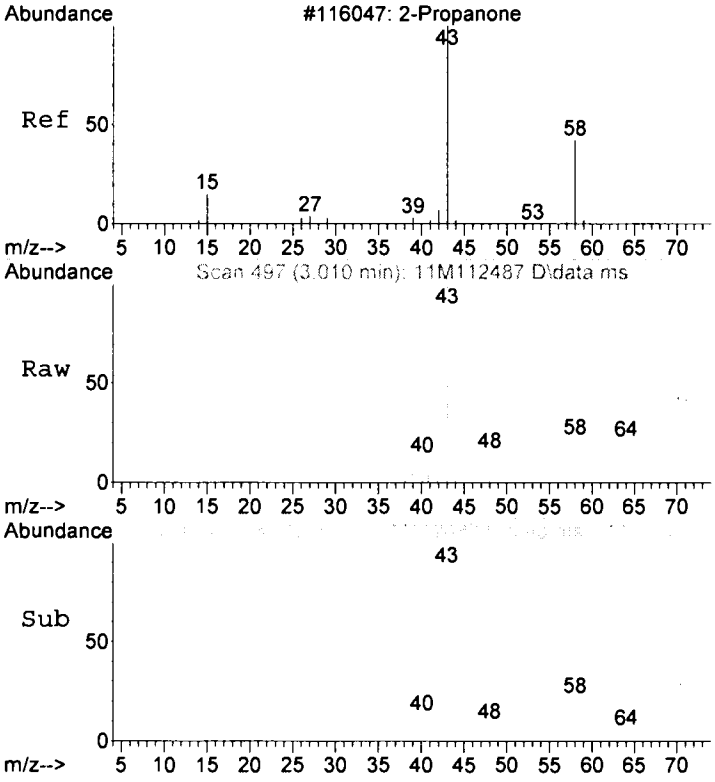


#15
Methylene Chloride
Concen: 2.07 ug/l m
RT: 3.370 min Scan# 609
Delta R.T. -0.003 min
Lab File: 11M112487.D
Acq: 26 Jun 2023 14:22

Tgt Ion: 84 Resp: 8435

Ion	Ratio	Lower	Upper
84	100		
49	94.2	42.3	169.3
86	55.6	26.2	105.0

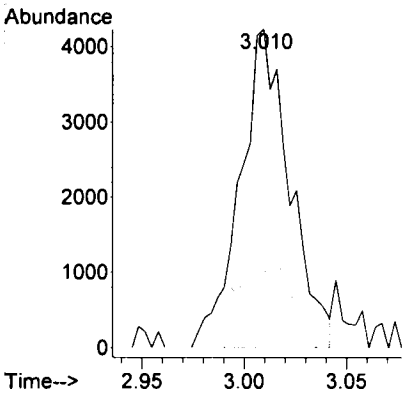




#19
Acetone
Concen: 11.50 ug/l
RT: 3.010 min Scan# 497
Delta R.T. 0.001 min
Lab File: 11M112487.D
Acq: 26 Jun 2023 14:22

Tgt Ion: 43 Resp: 7150

Ion	Ratio	Lower	Upper
43	100		
58	21.7	0.0	70.4



GC/MS Volatile Data
Standards Data

3062404 0129

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_11

Level #	Data File:	Cal Identifier:	Analysis Date/Time	Level #	Data File:	Cal Identifier:	Analysis Date/Time
1	11M111792.D	CAL @ 20PPB	06/13/23 03:42	2	11M111789.D	CAL @ 5 PPB	06/13/23 02:45
3	11M111790.D	CAL @10 PPB	06/13/23 03:04	4	11M111794.D	CAL @ 50 PPB	06/13/23 04:20
5	11M111796.D	CAL @ 100 PPB	06/13/23 04:57	6	11M111799.D	CAL @ 250 PPB	06/13/23 05:54
7	11M111803.D	CAL @ 500 PPB	06/13/23 07:10	8	11M111788.D	CAL @ 1 PPB	06/13/23 02:27
9	11M111787.D	CAL @ 0.5 PPB	06/13/23 02:08				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.3040	0.2485	0.3139	0.3291	0.3628	0.3346	0.4454	0.3603	-----	0.337	1.67	0.986	0.998	17	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dichlorodifluorometha	1	0	Avg	0.2044	0.2219	0.2040	0.2210	0.2444	0.2301	0.3088	0.2756	-----	0.239	1.67	0.985	0.999	15	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloromethane	1	0	Avg	0.2185	0.2432	0.2102	0.2327	0.2473	0.2287	0.3185	0.3389	-----	0.255	1.84	0.982	0.998	19	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromomethane	1	0	Avg	0.1621	0.1762	0.1512	0.1789	0.2075	0.1992	-----	0.2684	-----	0.192	2.24	0.999	0.999	20	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Vinyl Chloride	1	0	Avg	0.2651	0.2912	0.2587	0.2890	0.3138	0.2929	0.4022	0.3736	-----	0.311	1.94	0.983	0.998	16	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroethane	1	0	Avg	0.1731	0.2001	0.1716	0.1889	0.2062	0.1892	0.2605	0.2816	-----	0.209	2.33	0.983	0.998	19	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichlorofluoromethan	1	0	Avg	0.4031	0.4369	0.3869	0.4337	0.4750	0.4423	0.5877	0.5861	-----	0.469	2.55	0.986	0.999	16	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl ether	1	0	Avg	0.1648	0.1738	0.1616	0.1793	0.1947	0.1818	0.2579	0.2213	-----	0.192	2.78	0.980	0.998	17	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Furan	1	0	Avg	0.3143	0.3474	0.3060	0.3423	0.3693	0.3453	0.4778	0.4929	-----	0.374	2.81	0.982	0.998	19	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.2076	0.2239	0.1965	0.2232	0.2408	0.2229	0.2875	0.2710	-----	0.234	2.97	0.989	0.999	13	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methylene Chloride	1	0	Avg	0.2269	0.2521	0.2221	0.2463	0.2669	0.2469	0.3463	0.3525	-----	0.270	3.37	0.981	0.998	19	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acrolein	1	0	Avg	0.0209	0.0216	0.0210	0.0238	0.0245	0.0235	0.0347	0.0253	-----	0.0245	2.89	0.976	0.998	18		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Acrylonitrile	1	0	Avg	0.0456	0.0484	0.0430	0.0482	0.0518	0.0482	0.0708	0.0404	-----	0.0496	3.57	0.977	0.998	19		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iodomethane	1	0	Qua	0.2993	0.2887	0.2754	0.3668	0.4164	0.4062	0.5580	0.3614	-----	0.372	3.12	0.983	0.999	25		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acetone	1	0	Avg	0.0324	0.0383	0.0379	0.0362	0.0410	0.0359	0.0515	0.0562	-----	0.0412	3.01	0.979	0.997	20	0.10 a	100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Carbon Disulfide	1	0	Avg	0.5838	0.6239	0.5478	0.6608	0.7188	0.6926	-----	0.8813	-----	0.673	3.18	0.999	1.00	16	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
t-Butyl Alcohol	1	0	Avg	0.0107	0.0107	0.0114	0.0129	0.0127	0.0125	-----	0.0167	-----	0.0126	3.43	1.00	1.00	16		100.0	25.00	50.00	250.0	500.0	1250.		5.00	
n-Hexane	1	0	Avg	0.1738	0.1719	0.1602	0.1946	0.2144	0.2045	0.2668	0.1985	-----	0.198	3.81	0.988	0.999	17		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Di-isopropyl-ether	1	0	Avg	0.4604	0.4673	0.4209	0.5232	0.5813	0.5511	-----	0.5482	-----	0.508	3.95	0.999	0.999	12		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
1,1-Dichloroethene	1	0	Avg	0.3275	0.3589	0.3127	0.3617	0.3921	0.3604	0.4907	0.4970	-----	0.388	2.98	0.984	0.998	18	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl Acetate	1	0	Avg	0.0773	0.0831	0.0786	0.0836	0.0858	0.0789	0.1144	0.0957	-----	0.0872	3.28	0.978	0.998	14	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl-t-butyl ether	1	0	Avg	0.4095	0.4343	0.3851	0.4741	0.5226	0.4950	0.7154	0.5323	0.4304	0.489	3.59	0.978	0.998	20	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
1,1-Dichloroethane	1	0	Avg	0.3698	0.3977	0.3526	0.4042	0.4434	0.4119	0.5750	0.5434	-----	0.437	3.92	0.982	0.998	18	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,2-Dichloroethe	1	0	Avg	0.2334	0.2540	0.2256	0.2657	0.2853	0.2693	0.3733	0.3633	-----	0.284	3.60	0.982	0.999	20	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl-t-butyl ether	1	0	Avg	0.4699	0.4851	0.4372	0.5448	0.6094	0.5791	-----	0.5810	-----	0.530	4.19	0.999	0.999	12	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
cis-1,2-Dichloroethene	1	0	Avg	0.3348	0.3608	0.3169	0.3725	0.4113	0.3852	0.5431	0.4924	-----	0.402	4.31	0.981	0.998	19	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromochloromethane	1	0	Avg	0.1388	0.1577	0.1328	0.1516	0.1640	0.1514	0.2165	0.2062	-----	0.165	4.45	0.979	0.998	18		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2,2-Dichloropropane	1	0	Avg	0.2987	0.3159	0.2880	0.3318	0.3685	0.3428	0.4649	0.4167	-----	0.353	4.31	0.984	0.999	17		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl acetate	1	0	Avg	0.1226	0.1244	0.1122	0.1281	0.1351	0.1277	0.1911	0.1320	-----	0.134	4.32	0.974	0.998	18		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,4-Dioxane	1	0	Avg	0.0018	0.0018	0.0019	0.0021	0.0021	0.0021	0.0028	0.0022	-----	0.00215	5.33	0.986	0.999	15		1000.	250.0	500.0	2500.	5000.	12500	25000	50.00	
1,1-Dichloropropene	1	0	Avg	0.3102	0.3187	0.2853	0.3527	0.3854	0.3646	0.5157	0.4244	-----	0.370	4.70	0.980	0.998	20		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroform	1	0	Avg	0.3931	0.4297	0.3775	0.4303	0.4681	0.4378	0.6170	0.6057	-----	0.470	4.49	0.981	0.998	19	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromofluoromethan	1	0	Avg	0.2822	0.2810	0.2818	0.2813	0.2802	0.2649	0.3649	0.2869	0.2873	0.290	4.58	-1	-1	9.9		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.2569	0.2530	0.2295	0.2955	0.3279	0.3126	-----	0.3332	-----	0.287	4.65	0.999	0.999	14	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
1,2-Dichloroethane-d4	1	0	Avg	0.1194	0.1139	0.1144	0.1139	0.1113	0.1056	0.1502	0.1224	0.1204	0.119	4.77	-1	-1	11		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.2585	0.2851	0.2488	0.2797	0.3016	0.2808	0.3899	0.4055	0.3129	0.307	4.82	0.982	0.998	18	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
2-Butanone	1	0	Avg	0.0600	0.0598	0.0472	0.0419	0.0540	0.0498	-----	0.0763	-----	0.0556	4.30	0.997	0.997	20	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
1,1,1-Trichloroethane	1	0	Avg	0.3640	0.3786	0.3429	0.4026	0.4450	0.4196	0.5906	0.5481	-----	0.436	4.61	0.981	0.998	20	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Carbon Tetrachloride	1	0	Avg	0.3218	0.3262	0.2960	0.3612	0.3999	0.3830	-----	0.4818	-----	0.367	4.70	0.999	0.999	17	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Vinyl Acetate	1	0	Avg	0.4424	0.4589	0.4055	0.5225	0.5550	0.5507	-----	0.5451	-----	0.497	3.95	1.00	1.00	12		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Bromodichloromethan	1	0	Avg	0.2687	0.2774	0.2513	0.2967	0.3302	0.3246	0.4354	0.3657	-----	0.319	5.41	0.985	0.999	19	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 16.56

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

3062404 0130

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_11

Level #	Data File:	Cal Identifier:	Analysis Date/Time	Level #	Data File:	Cal Identifier:	Analysis Date/Time
1	11M111792.D	CAL @ 20PPB	06/13/23 03:42	2	11M111789.D	CAL @ 5 PPB	06/13/23 02:45
3	11M111790.D	CAL @10 PPB	06/13/23 03:04	4	11M111794.D	CAL @ 50 PPB	06/13/23 04:20
5	11M111796.D	CAL @ 100 PPB	06/13/23 04:57	6	11M111799.D	CAL @ 250 PPB	06/13/23 05:54
7	11M111803.D	CAL @ 500 PPB	06/13/23 07:10	8	11M111788.D	CAL @ 1 PPB	06/13/23 02:27
9	11M111787.D	CAL @ 0.5 PPB	06/13/23 02:08				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.2623	0.2547	0.2401	0.3089	0.3394	0.3378	0.4164	0.3372	-----	0.312	5.27	0.992	1.00	19	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromomethane	1	0	Avg	0.1565	0.1677	0.1507	0.1753	0.1880	0.1791	0.2370	0.2459	-----	0.188	5.34	0.986	0.999	19		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichloropropane	1	0	Avg	0.1994	0.2178	0.1869	0.2226	0.2432	0.2373	0.3335	0.2929	-----	0.242	5.28	0.981	0.999	20	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichloroethene	1	0	Avg	0.2804	0.2987	0.2589	0.3110	0.3439	0.3274	-----	0.4304	-----	0.322	5.15	0.999	0.999	17	0.20	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Benzene	1	0	Avg	0.9032	0.9593	0.8574	1.0018	1.0928	1.0384	1.4744	1.3448	0.9971	1.07	4.82	0.980	0.998	19	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
tert-Amyl methyl ether	1	0	Avg	0.4565	0.4642	0.4145	0.5298	0.5863	0.5856	-----	0.5224	-----	0.508	4.86	1.00	1.00	13		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Iso-propylacetate	1	0	Avg	0.2152	0.2250	0.2090	0.2639	0.2854	0.2656	0.3633	0.2690	-----	0.262	4.81	0.984	0.998	19	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl methacrylate	1	0	Avg	0.1060	0.1079	0.0985	0.1206	0.1333	0.1258	0.1468	0.1422	-----	0.123	5.30	0.996	0.999	14	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromochloromethan	1	0	Avg	0.1929	0.1890	0.1858	0.2320	0.2559	0.2550	0.3092	0.2573	-----	0.235	6.23	0.993	1.00	18	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chloroethylvinylethe	1	0	Avg	0.0497	0.0473	0.0459	0.0644	0.0715	0.0700	-----	0.0567	-----	0.0580	5.54	0.999	0.999	19		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
cis-1,3-Dichloropropen	1	0	Avg	0.2922	0.2903	0.2728	0.3478	0.3944	0.3708	0.4669	0.3710	-----	0.351	5.64	0.991	0.999	18	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,3-Dichloroprop	1	0	Avg	0.2464	0.2478	0.2257	0.2949	0.3312	0.3292	0.3554	0.3268	-----	0.295	5.91	0.999	1.00	16	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl methacrylate	1	0	Avg	0.1137	0.1174	0.1080	0.1449	0.1572	0.1501	0.1800	0.1437	-----	0.139	5.93	0.994	0.999	18	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2-Trichloroethane	1	0	Avg	0.1725	0.1873	0.1692	0.1930	0.2041	0.1982	0.2451	0.2707	-----	0.205	6.02	0.992	0.999	17	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromoethane	1	0	Avg	0.1647	0.1703	0.1604	0.1907	0.2071	0.2002	0.2221	0.2279	-----	0.193	6.31	0.998	1.00	13	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichloropropane	1	0	Avg	0.2839	0.3086	0.2815	0.3218	0.3481	0.3357	0.4249	0.4134	-----	0.340	6.11	0.990	0.999	16		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Methyl-2-Pentanone	1	0	Avg	0.0946	0.0953	0.0949	0.1162	0.1223	0.1138	0.1125	0.1136	-----	0.108	5.70	1.00	1.00	10	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Hexanone	1	0	Avg	0.0651	0.0599	0.0638	0.0787	0.0874	0.0835	-----	0.0747	-----	0.0734	6.12	0.999	0.999	14	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Tetrachloroethene	1	0	Avg	0.2207	0.2321	0.2124	0.2496	0.2711	0.2642	0.3224	0.3442	-----	0.265	6.11	0.993	0.999	18	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Toluene-d8	1	0	Avg	1.1440	1.1410	1.1667	1.1523	1.1278	1.0703	1.0367	1.1127	1.1103	1.12	5.78	-1	-1	3.7		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.5772	0.6353	0.5590	0.6544	0.7120	0.6794	0.5138	0.8720	-----	0.650	5.82	0.977	0.999	17	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.2069	0.2083	0.1978	0.2395	0.2644	0.2620	0.3322	0.3135	-----	0.253	6.59	0.990	0.999	20		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chlorobenzene	1	0	Avg	0.6416	0.6905	0.6236	0.7147	0.7754	0.7624	0.8439	1.0414	-----	0.762	6.56	0.998	1.00	18	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butyl acrylate	1	0	Avg	0.3988	0.3881	0.3771	0.5114	0.6186	-----	-----	0.4689	-----	0.461	6.79	0.991	1.00	20	0.50 a	20.00	5.00	10.00	50.00	100.0			1.00	
n-Amyl acetate	1	0	Avg	0.3372	0.3118	0.3126	0.4198	0.4962	-----	-----	0.4015	-----	0.380	6.91	0.993	1.00	19	0.50 a	20.00	5.00	10.00	50.00	100.0			1.00	
Bromoform	1	0	Avg	0.2081	0.2168	0.2015	0.2551	0.3123	-----	-----	0.3041	-----	0.250	7.01	0.990	1.00	20	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
Ethylbenzene	1	0	Avg	0.5214	0.5606	0.4878	0.5906	0.6864	0.7833	0.6857	0.8241	-----	0.643	6.60	0.995	0.998	19	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Qua	0.3448	0.3642	0.3399	0.3808	0.4276	0.2665	-----	0.6043	-----	0.390	7.21	0.947	0.995	27	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Bromofluorobenzene	1	0	Avg	0.8386	0.8403	0.8395	0.8328	0.9213	0.4570	-----	0.8240	0.8204	0.797	7.16	-1	-1	18		30.00	30.00	30.00	30.00	30.00	30.00		30.00	30.00
Styrene	1	0	Avg	1.1495	1.1308	1.0614	1.3348	1.5831	-----	-----	1.5591	-----	1.30	6.88	0.993	1.00	17	0.30	20.00	5.00	10.00	50.00	100.0			1.00	
m&p-Xylenes	1	0	Avg	0.7467	0.7553	0.6939	0.8448	0.9658	0.6753	0.8162	1.0996	0.7536	0.817	6.66	0.991	0.993	17	0.10	40.00	10.00	20.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	0.7283	0.7420	0.6764	0.8126	0.9553	-----	-----	0.9697	-----	0.814	6.87	0.994	1.00	15	0.30	20.00	5.00	10.00	50.00	100.0			1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.1137	0.1204	0.1131	0.1373	0.1581	0.1219	0.1414	0.1686	-----	0.134	7.24	0.994	0.996	15		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichlorobenzene	1	0	Avg	0.8063	0.8836	0.7871	0.9153	0.9344	0.7633	0.9155	1.2972	-----	0.913	7.78	0.993	0.997	18	0.60	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,4-Dichlorobenzene	1	0	Avg	0.8101	0.9031	0.7784	0.9139	0.9975	1.0498	1.0093	1.4111	-----	0.984	7.83	0.999	1.00	20	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichlorobenzene	1	0	Avg	0.7150	0.7676	0.6856	0.8105	0.8388	0.7007	0.8363	1.1658	-----	0.815	8.05	0.994	0.998	19	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Isopropylbenzene	1	0	Avg	1.5904	1.5877	1.4864	1.8407	2.2207	-----	-----	2.2727	-----	1.83	7.06	0.992	1.00	19	0.10	20.00	5.00	10.00	50.00	100.0			1.00	
Cyclohexanone	1	0	Avg	0.0098	0.0136	0.0137	0.0111	-----	-----	-----	0.0137	-----	0.0124	7.13	0.993	0.994	15		100.0	25.00	50.00	250.0				5.00	
Camphene	1	0	Avg	0.4245	0.4359	0.4106	0.4861	0.5890	0.5345	0.5462	0.5388	-----	0.496	7.23	0.999	0.999	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichloropropane	1	0	Avg	0.3878	0.4179	0.3850	0.4528	0.5275	0.4894	0.5180	0.6012	-----	0.472	7.25	0.999	1.00	16		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chlorotoluene	1	0	Avg	1.0189	1.0770	0.9803	1.1346	1.3686	0.9952	1.1938	1.6070	-----	1.17	7.36	0.992	0.995	19		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags	*Note:* Avg Rsd: 16.56
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_11

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	11M111792.D	CAL @ 20PPB	06/13/23 03:42	2	11M111789.D	CAL @ 5 PPB	06/13/23 02:45
3	11M111790.D	CAL @10 PPB	06/13/23 03:04	4	11M111794.D	CAL @ 50 PPB	06/13/23 04:20
5	11M111796.D	CAL @ 100 PPB	06/13/23 04:57	6	11M111799.D	CAL @ 250 PPB	06/13/23 05:54
7	11M111803.D	CAL @ 500 PPB	06/13/23 07:10	8	11M111788.D	CAL @ 1 PPB	06/13/23 02:27
9	11M111787.D	CAL @ 0.5 PPB	06/13/23 02:08				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	1.7201	1.7424	1.6152	1.9870	2.3980	1.5164	1.8522	2.4944	-----	1.92	7.34	0.987	0.989	19		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Chlorotoluene	1	0	Avg	1.0026	1.0917	0.9667	1.1282	1.1854	1.0466	1.2299	1.5987	-----	1.16	7.41	0.995	0.999	17		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Propylbenzene	1	0	Avg	1.8999	1.9749	1.7992	2.1572	2.5887	2.1464	2.0154	2.7940	-----	2.17	7.29	0.996	0.999	16		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	0.8964	0.9684	0.8818	1.0096	1.1956	1.1231	1.1224	1.4902	-----	1.09	7.27	1.00	1.00	18		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3,5-Trimethylbenzen	1	0	Avg	1.3304	1.3255	1.2627	1.5112	1.7259	1.4105	1.5141	1.8035	-----	1.49	7.37	0.998	0.998	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Avg	0.3051	0.3193	0.2935	0.3485	0.3942	0.2737	0.3726	0.3932	-----	0.338	7.38	0.983	0.992	14	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butylbenzene	1	0	Avg	1.2784	1.2816	1.2076	1.5041	1.5020	-----	-----	1.7469	-----	1.42	7.57	0.999	0.999	14		20.00	5.00	10.00	50.00	100.0			1.00	
1,2,4-Trimethylbenzen	1	0	Avg	1.3493	1.3194	1.2331	1.5533	1.3933	-----	-----	1.8024	-----	1.44	7.59	0.996	0.998	14		20.00	5.00	10.00	50.00	100.0			1.00	
sec-Butylbenzene	1	0	Avg	1.5070	1.5244	1.4052	1.7664	1.6203	1.4809	1.0092	1.9906	-----	1.54	7.69	0.953	0.999	18		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Avg	1.3189	1.2641	1.2169	1.5401	1.4608	-----	-----	1.7756	-----	1.43	7.76	0.998	0.999	15		20.00	5.00	10.00	50.00	100.0			1.00	
n-Butylbenzene	1	0	Avg	1.2432	1.2380	1.1592	1.4531	1.3056	-----	-----	1.6275	-----	1.34	8.00	0.996	0.998	13		20.00	5.00	10.00	50.00	100.0			1.00	
p-Diethylbenzene	1	0	Avg	0.7171	0.7016	0.6554	0.8764	0.9136	0.5624	0.6775	0.9303	-----	0.754	7.98	0.985	0.987	18		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4,5-Tetramethylbe	1	0	Avg	0.8786	0.8203	0.7721	1.1383	-----	-----	-----	1.1089	-----	0.944	8.43	0.990	1.00	18		20.00	5.00	10.00	50.00				1.00	
1,2-Dibromo-3-Chloro	1	0	Avg	0.0530	0.0497	0.0529	0.0668	0.0810	-----	-----	0.0691	-----	0.0621	8.50	0.991	1.00	20	0.05 a	20.00	5.00	10.00	50.00	100.0			1.00	
Camphor	1	0	Avg	0.0154	0.0140	0.0157	0.0211	-----	-----	-----	0.0164	0.0139	0.0161	8.93	0.988	1.00	17		200.0	50.00	100.0	500.0				10.00	5.00
Hexachlorobutadiene	1	0	Avg	0.1653	0.1795	0.1642	0.1916	0.2261	0.1987	0.1936	0.2286	-----	0.194	9.07	0.999	0.999	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trichlorobenzen	1	0	Avg	0.2858	0.2909	0.2625	0.3570	0.4128	0.3004	0.3065	0.4175	-----	0.329	8.99	0.995	0.995	18	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichlorobenzen	1	0	Avg	0.1857	0.1732	0.1710	0.2309	0.2605	0.2110	0.2264	0.2669	-----	0.216	9.29	0.998	0.998	17		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Naphthalene	1	0	Qua	0.4371	0.4031	0.3884	0.5873	0.6853	0.4492	0.5237	0.5996	-----	0.509	9.14	0.990	0.990	21		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags	*Note:* Avg Rsd: 16.56
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Quantitation Report (QT Reviewed)

SampleID : CAL @ 20PPB Operator : WP Qt Meth : 11M_A0613.M
Data File: 11M111792.D Sam Mult : 1 Vial# : 9 Qt On : 06/13/23 17:44
Acq On : 06/13/23 03:42 Misc : A,5ML Qt Upd On: 06/13/23 17:37

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-13-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.958	96	506683	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.543	117	516373	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.813	152	285126	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.582	111	143032	33.48	ug/l	0.00
Spiked Amount 30.000			Recovery = 111.60%			
39) 1,2-Dichloroethane-d4	4.778	67	60533	27.90	ug/l	0.00
Spiked Amount 30.000			Recovery = 93.00%			
66) Toluene-d8	5.784	98	590770	25.04	ug/l	0.00
Spiked Amount 30.000			Recovery = 83.47%			
76) Bromofluorobenzene	7.163	174	239130	31.28	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.27%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.678	51	102698m	20.7766	ug/l	
6) Dichlorodifluoromethane	1.668	85	69063	17.2467	ug/l	95
7) Chloromethane	1.838	50	73821	17.3545	ug/l	99
8) Bromomethane	2.244	94	54784	21.5777	ug/l	100
9) Vinyl Chloride	1.940	62	89559	21.3467	ug/l	98
10) Chloroethane	2.328	64	58477	22.6904	ug/l	100
11) Trichlorofluoromethane	2.546	101	136178	25.6981	ug/l	100
12) Ethyl ether	2.778	59	55674	19.2146	ug/l	99
13) Furan	2.816	39	106191	17.2113	ug/l	90
14) 1,1,2-Trichloro-1,2,2-...	2.967	101	70143	26.2128	ug/l	99
15) Methylene Chloride	3.369	84	76660	23.1244	ug/l	96
16) Acrolein	2.887	56	35360	92.4491	ug/l	99
17) Acrylonitrile	3.566	53	15408	16.5326	ug/l	81
18) Iodomethane	3.115	142	101111	27.5790	ug/l	94
19) Acetone	3.009	43	54785	72.0112	ug/l	88
20) Carbon Disulfide	3.180	76	197220	22.7655	ug/l	100
21) t-Butyl Alcohol	3.437	59	18102m	67.4823	ug/l	
22) n-Hexane	3.813	57	58711	17.3677	ug/l	97
23) Di-isopropyl-ether	3.955	45	155522	15.5010	ug/l	99
24) 1,1-Dichloroethene	2.977	61	110652	22.3213	ug/l	98
25) Methyl Acetate	3.276	43	26142	11.0785	ug/l	100
26) Methyl-t-butyl ether	3.594	73	138349	16.9119	ug/l	97
27) 1,1-Dichloroethane	3.922	63	124935	21.5858	ug/l	96
28) trans-1,2-Dichloroethene	3.601	96	78871	24.0980	ug/l	97
29) Ethyl-t-butyl ether	4.196	59	158750	18.3687	ug/l	99
30) cis-1,2-Dichloroethene	4.305	61	113097	20.6260	ug/l	97
31) Bromochloromethane	4.453	49	46900	18.6591	ug/l	99
32) 2,2-Dichloropropane	4.311	77	100910	19.5031	ug/l	98
33) Ethyl acetate	4.328	43	41419m	16.6751	ug/l	
34) 1,4-Dioxane	5.337	88	30633	1046.5697	ug/l	97
35) 1,1-Dichloropropene	4.697	75	104798	23.9514	ug/l	99
36) Chloroform	4.488	83	132789	22.8433	ug/l	97
38) Cyclohexane	4.649	56	86779	18.6045	ug/l	99
40) 1,2-Dichloroethane	4.820	62	87317	20.4559	ug/l	98
41) 2-Butanone	4.318	43	20290m	20.8338	ug/l	
42) 1,1,1-Trichloroethane	4.611	97	122987	23.1752	ug/l	97
43) Carbon Tetrachloride	4.707	117	108719	24.4020	ug/l	99
44) Vinyl Acetate	3.945	43	149444	17.2932	ug/l	100
45) Bromodichloromethane	5.408	83	90769	21.0519	ug/l	98
46) Methylcyclohexane	5.266	83	88617	21.4912	ug/l	96
47) Dibromomethane	5.344	174	52888	27.6332	ug/l	98
48) 1,2-Dichloropropane	5.276	63	67359	20.4562	ug/l	96
49) Trichloroethene	5.154	130	94733	27.3601	ug/l	97
50) Benzene	4.816	78	305112	23.1672	ug/l	100
51) tert-Amyl methyl ether	4.858	73	154208	17.9890	ug/l	94
53) Iso-propylacetate	4.813	43	74099	9.3363	ug/l	94
54) Methyl methacrylate	5.299	41	36516	10.6381	ug/l	94
55) Dibromochloromethane	6.237	129	66409	14.6896	ug/l	98
56) 2-Chloroethylvinylether	5.543	63	17131	8.9546	ug/l	98
57) cis-1,3-Dichloropropene	5.636	75	100613	12.9694	ug/l	97
58) trans-1,3-Dichloropropene	5.913	75	84845	12.4879	ug/l	97
59) Ethyl methacrylate	5.932	41	39161	9.4412	ug/l	95
60) 1,1,2-Trichloroethane	6.016	97	59383	15.8797	ug/l	98
61) 1,2-Dibromoethane	6.311	107	56716	15.1350	ug/l	98
62) 1,3-Dichloropropane	6.109	76	97732	14.8317	ug/l	99
63) 4-Methyl-2-Pentanone	5.701	43	32577	9.3023	ug/l	100
64) 2-Hexanone	6.119	43	22418	9.2464	ug/l	95
65) Tetrachloroethene	6.112	164	76007	19.3779	ug/l	96
67) Toluene	5.819	92	198731	16.5543	ug/l	98

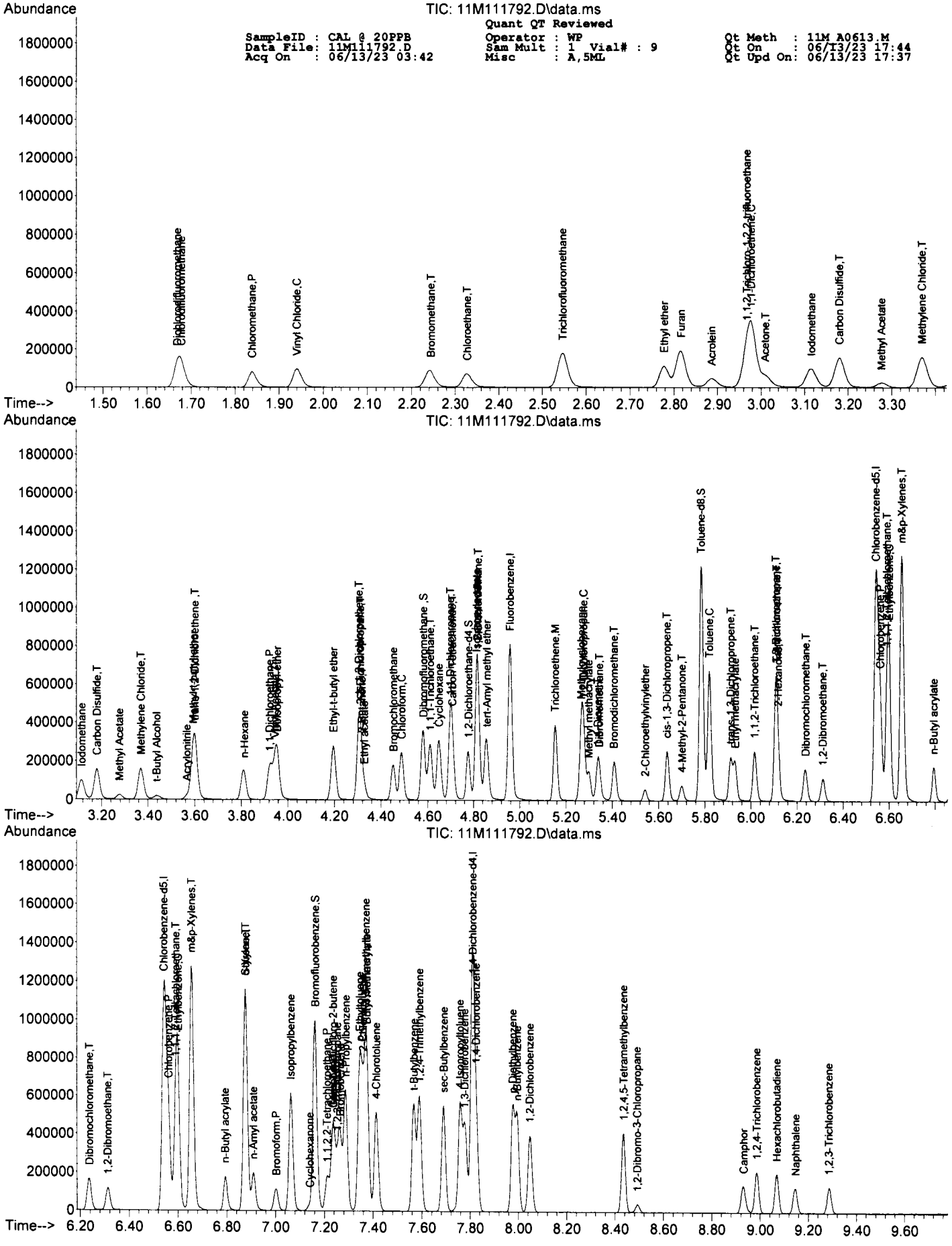
Quantitation Report (QT Reviewed)

SampleID : CAL @ 20PPB Operator : WP Qt Meth : 11M_A0613.M
Data File: 11M111792.D Sam Mult : 1 Vial# : 9 Qt On : 06/13/23 17:44
Acq On : 06/13/23 03:42 Misc : A,5ML Qt Upd On: 06/13/23 17:37

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-13-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.591	133	71250	15.6731	ug/l	94
69)	Chlorobenzene	6.562	112	220895	17.1092	ug/l	97
71)	n-Butyl acrylate	6.794	55	75820	8.1440	ug/l	99
72)	n-Amyl acetate	6.909	43	64096	8.4645	ug/l	96
73)	Bromoform	7.003	173	39565	12.4507	ug/l	96
74)	Ethylbenzene	6.601	106	99120	14.7065	ug/l	94
75)	1,1,2,2-Tetrachloroethane	7.212	83	65548	12.9455	ug/l	99
77)	Styrene	6.877	104	218503	14.2783	ug/l	99
78)	m&p-Xylenes	6.655	106	283901	29.7722	ug/l	99
79)	o-Xylene	6.877	106	138441	15.3993	ug/l	95
80)	trans-1,4-Dichloro-2-b...	7.237	53	21627	9.1630	ug/l	80
81)	1,3-Dichlorobenzene	7.778	146	153278	14.8581	ug/l	99
82)	1,4-Dichlorobenzene	7.826	146	153994	14.5959	ug/l	99
83)	1,2-Dichlorobenzene	8.048	146	135927	14.7499	ug/l	99
84)	Isopropylbenzene	7.064	105	302312	13.3841	ug/l	99
85)	Cyclohexanone	7.141	55	9375	19.2952	ug/l	94
86)	Camphene	7.237	93	80703	13.3758	ug/l	99
87)	1,2,3-Trichloropropane	7.253	75	73722	11.0747	ug/l	97
88)	2-Chlorotoluene	7.360	91	193692	12.7007	ug/l	97
89)	p-Ethyltoluene	7.347	105	326971	5.9343	ug/l	97
90)	4-Chlorotoluene	7.414	91	190595	13.1406	ug/l	99
91)	n-Propylbenzene	7.289	91	361144	13.5059	ug/l	100
92)	Bromobenzene	7.266	77	170392	12.3611	ug/l	96
93)	1,3,5-Trimethylbenzene	7.372	105	252894	14.9373	ug/l	96
94)	Butyl methacrylate	7.376	41	58005	8.9548	ug/l	98
95)	t-Butylbenzene	7.569	119	243005	14.2168	ug/l	98
96)	1,2,4-Trimethylbenzene	7.591	105	256497	13.9071	ug/l	98
97)	sec-Butylbenzene	7.691	105	286464	14.5789	ug/l	99
98)	4-Isopropyltoluene	7.758	119	250705	14.8015	ug/l	99
99)	n-Butylbenzene	7.996	91	236325	10.5204	ug/l	97
100)	p-Diethylbenzene	7.977	119	136311	5.5042	ug/l	97
101)	1,2,4,5-Tetramethylben...	8.437	119	167013	5.0393	ug/l	100
102)	1,2-Dibromo-3-Chloropr...	8.491	157	10083	13.0611	ug/l	95
103)	Camphor	8.932	95	29449	210.2959	ug/l	99
104)	Hexachlorobutadiene	9.070	225	31436	15.9589	ug/l	99
105)	1,2,4-Trichlorobenzene	8.987	180	54339	14.6514	ug/l	98
106)	1,2,3-Trichlorobenzene	9.286	180	35308	14.4043	ug/l	99
107)	Naphthalene	9.147	128	83087	12.2090	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 11M111792.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 20PPB
Data File: 11M111792.D
Acq On : 06/13/23 03:42
Operator : WP
Sam Mult : 1 Vial# : 9
Misc : A,5ML
Qt Meth : 11M_A0613.M
Qt On : 06/13/23 17:44
Qt Upd On: 06/13/23 17:37
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
Time-->

Abundance
TIC: 11M111792.D\data.ms
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
Time-->

Abundance
TIC: 11M111792.D\data.ms
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
Cyclohexanone
4-Chlorotoluene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 5 PPB Operator : WP Qt Meth : 11M_A0613.M
Data File: 11M111789.D Sam Mult : 1 Vial# : 6 Qt On : 06/13/23 17:47
Acq On : 06/13/23 02:45 Misc : A,5ML Qt Upd On: 06/13/23 17:37

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-13-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.958	96	476849	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.543	117	476803	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.810	152	257595	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.582	111	134009	33.33	ug/l	0.00
Spiked Amount 30.000			Recovery = 111.10%			
39) 1,2-Dichloroethane-d4	4.778	67	54319	26.60	ug/l	0.00
Spiked Amount 30.000			Recovery = 88.67%			
66) Toluene-d8	5.784	98	544045	24.97	ug/l	0.00
Spiked Amount 30.000			Recovery = 83.23%			
76) Bromofluorobenzene	7.164	174	216458	31.34	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.47%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.675	51	19757	4.2471	ug/l	65
6) Dichlorodifluoromethane	1.668	85	17639	4.6805	ug/l	97
7) Chloromethane	1.838	50	19332	4.8291	ug/l	95
8) Bromomethane	2.238	94	14009	5.8629	ug/l	98
9) Vinyl Chloride	1.940	62	23148	5.8626	ug/l	96
10) Chloroethane	2.331	64	15906	6.5580	ug/l	87
11) Trichlorofluoromethane	2.546	101	34724	6.9627	ug/l	99
12) Ethyl ether	2.781	59	13818	5.0673	ug/l	96
13) Furan	2.817	39	27610	4.7550	ug/l	89
14) 1,1,2-Trichloro-1,2,2-...	2.968	101	17797	7.0669	ug/l	98
15) Methylene Chloride	3.366	84	20039	6.4229	ug/l	87
16) Acrolein	2.887	56	8593	23.8721	ug/l	97
17) Acrylonitrile	3.569	53	3848	4.3872	ug/l	97
18) Iodomethane	3.112	142	22948	6.6509	ug/l	99
19) Acetone	3.013	43	15229	21.2699	ug/l	92
20) Carbon Disulfide	3.183	76	49585	6.0818	ug/l	100
21) t-Butyl Alcohol	3.444	59	4286	16.9774	ug/l	92
22) n-Hexane	3.810	57	13665	4.2952	ug/l	98
23) Di-isopropyl-ether	3.955	45	37139	3.9333	ug/l	96
24) 1,1-Dichloroethene	2.981	61	28530	6.1153	ug/l	97
25) Methyl Acetate	3.276	43	6606	2.9746	ug/l	100
26) Methyl-t-butyl ether	3.595	73	34522	4.4840	ug/l	98
27) 1,1-Dichloroethane	3.926	63	31612	5.8035	ug/l	97
28) trans-1,2-Dichloroethene	3.601	96	20192	6.5554	ug/l	98
29) Ethyl-t-butyl ether	4.196	59	38558	4.7406	ug/l	99
30) cis-1,2-Dichloroethene	4.305	61	28682	5.5581	ug/l	95
31) Bromochloromethane	4.450	49	12537	5.2999	ug/l	91
32) 2,2-Dichloropropane	4.312	77	25110	5.1567	ug/l	94
33) Ethyl acetate	4.328	43	9889m	4.2304	ug/l	
34) 1,4-Dioxane	5.334	88	7490	271.9042	ug/l	88
35) 1,1-Dichloropropene	4.698	75	25333	6.1521	ug/l	99
36) Chloroform	4.485	83	34150	6.2423	ug/l	99
38) Cyclohexane	4.649	56	20111	4.5813	ug/l	98
40) 1,2-Dichloroethane	4.816	62	22659	5.6405	ug/l	96
41) 2-Butanone	4.315	43	4760m	5.1934	ug/l	
42) 1,1,1-Trichloroethane	4.611	97	30094	6.0256	ug/l	95
43) Carbon Tetrachloride	4.707	117	25931	6.1844	ug/l	98
44) Vinyl Acetate	3.948	43	36472	4.4845	ug/l	100
45) Bromodichloromethane	5.411	83	22048	5.4335	ug/l	91
46) Methylcyclohexane	5.267	83	20242	5.2162	ug/l	97
47) Dibromomethane	5.344	174	13328	7.3994	ug/l	97
48) 1,2-Dichloropropane	5.273	63	17317	5.5880	ug/l	96
49) Trichloroethene	5.154	130	23744	7.2866	ug/l	98
50) Benzene	4.816	78	76240	6.1511	ug/l	100
51) tert-Amyl methyl ether	4.858	73	36893	4.5730	ug/l	93
53) Iso-propylacetate	4.813	43	17886	2.4406	ug/l	93
54) Methyl methacrylate	5.299	41	8581	2.7073	ug/l	99
55) Dibromochloromethane	6.238	129	15021	3.5984	ug/l	96
56) 2-Chloroethylvinylether	5.543	63	3761	2.1291	ug/l	96
57) cis-1,3-Dichloropropene	5.640	75	23075	3.2213	ug/l	96
58) trans-1,3-Dichloropropene	5.913	75	19698	3.1399	ug/l	95
59) Ethyl methacrylate	5.932	41	9334	2.4371	ug/l	98
60) 1,1,2-Trichloroethane	6.016	97	14887	4.3113	ug/l	98
61) 1,2-Dibromoethane	6.312	107	13540	3.9131	ug/l	97
62) 1,3-Dichloropropane	6.109	76	24529	4.0314	ug/l	98
63) 4-Methyl-2-Pentanone	5.701	43	7576	2.3428	ug/l	95
64) 2-Hexanone	6.122	43	4763	2.1275	ug/l	92
65) Tetrachloroethene	6.109	164	18451	5.0945	ug/l	99
67) Toluene	5.823	92	50490	4.5549	ug/l	97

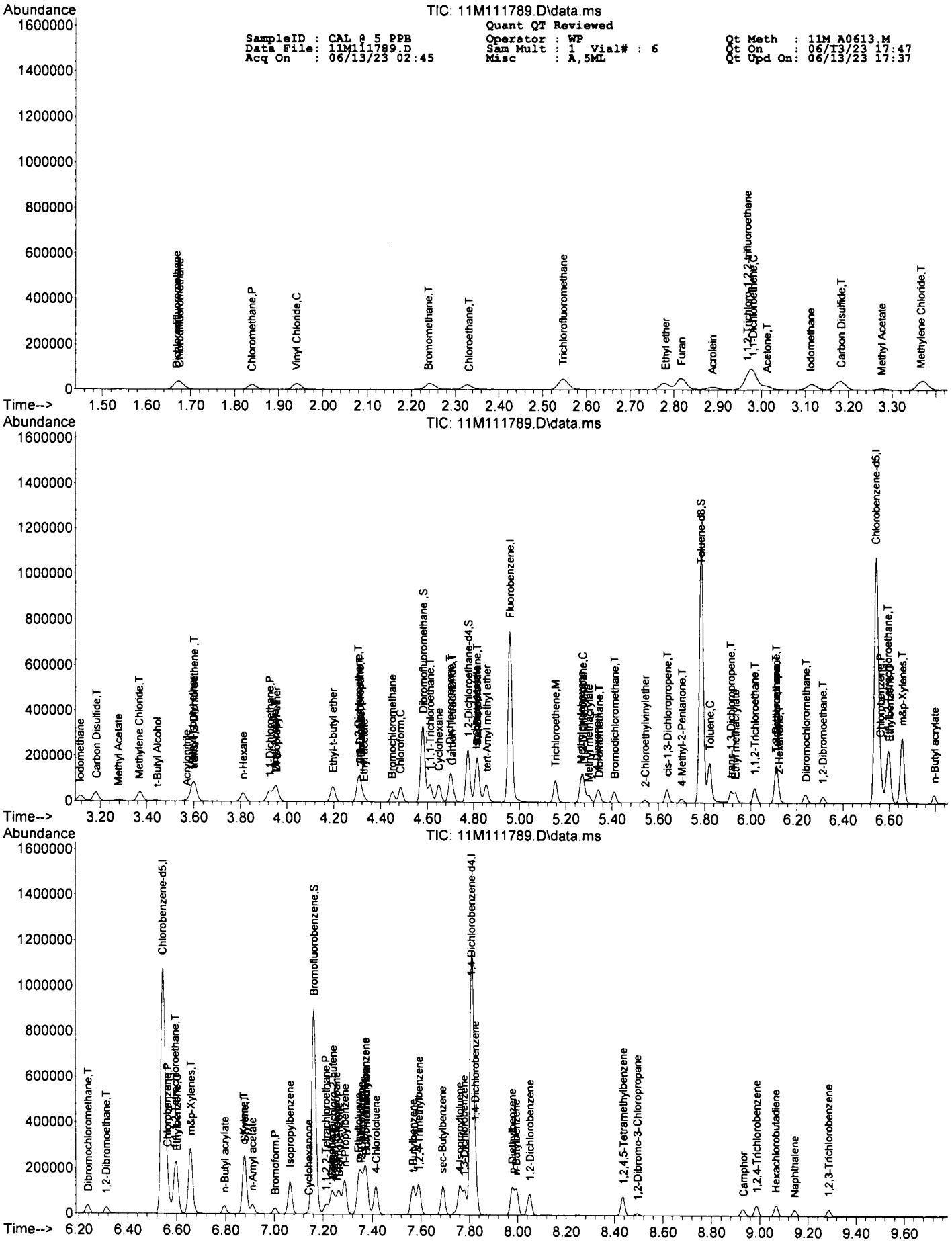
Quantitation Report (QT Reviewed)

SampleID : CAL @ 5 PPB Operator : WP Qt Meth : 11M_A0613.M
Data File: 11M111789.D Sam Mult : 1 Vial# : 6 Qt On : 06/13/23 17:47
Acq On : 06/13/23 02:45 Misc : A,5ML Qt Upd On: 06/13/23 17:37

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-13-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.595	133	16553	3.9434	ug/l	98
69)	Chlorobenzene	6.562	112	54879	4.6033	ug/l	98
71)	n-Butyl acrylate	6.797	55	16662	1.9810	ug/l	98
72)	n-Amyl acetate	6.910	43	13390	1.9573	ug/l	94
73)	Bromoform	7.003	173	9308	3.2422	ug/l	95
74)	Ethylbenzene	6.601	106	24072	3.9533	ug/l	89
75)	1,1,2,2-Tetrachloroethane	7.212	83	15638	3.4185	ug/l	98
77)	Styrene	6.878	104	48551	3.5117	ug/l	98
78)	m&p-Xylenes	6.659	106	64857	7.5284	ug/l	94
79)	o-Xylene	6.874	106	31857	3.9223	ug/l	91
80)	trans-1,4-Dichloro-2-b...	7.241	53	5172	2.4255	ug/l	68
81)	1,3-Dichlorobenzene	7.778	146	37935	4.0703	ug/l	98
82)	1,4-Dichlorobenzene	7.826	146	38776	4.0681	ug/l	97
83)	1,2-Dichlorobenzene	8.051	146	32957	3.9585	ug/l	99
84)	Isopropylbenzene	7.064	105	68167	3.3405	ug/l	100
85)	Cyclohexanone	7.141	55	2931	6.6772	ug/l	89
86)	Camphene	7.234	93	18715	3.4334	ug/l	98
87)	1,2,3-Trichloropropane	7.254	75	17945	2.9838	ug/l	98
88)	2-Chlorotoluene	7.357	91	46240	3.3561	ug/l	99
89)	p-Ethyltoluene	7.344	105	74807	1.5028	ug/l	99
90)	4-Chlorotoluene	7.414	91	46872	3.5770	ug/l	99
91)	n-Propylbenzene	7.289	91	84790	3.5098	ug/l	100
92)	Bromobenzene	7.263	77	41578	3.3387	ug/l	90
93)	1,3,5-Trimethylbenzene	7.373	105	56911	3.7208	ug/l	99
94)	Butyl methacrylate	7.376	41	13709	2.3426	ug/l	87
95)	t-Butylbenzene	7.569	119	55023	3.5631	ug/l	98
96)	1,2,4-Trimethylbenzene	7.591	105	56645	3.3995	ug/l	96
97)	sec-Butylbenzene	7.688	105	65448	3.6868	ug/l	99
98)	4-Isopropyltoluene	7.758	119	54271	3.5466	ug/l	99
99)	n-Butylbenzene	7.993	91	53152	2.6190	ug/l	95
100)	p-Diethylbenzene	7.977	119	30124	1.3464	ug/l	96
101)	1,2,4,5-Tetramethylben...	8.437	119	35220	1.1763	ug/l	100
102)	1,2-Dibromo-3-Chloropr...	8.495	157	2137	3.0640	ug/l	96
103)	Camphor	8.932	95	6021	47.5914	ug/l	98
104)	Hexachlorobutadiene	9.067	225	7709	4.3319	ug/l	98
105)	1,2,4-Trichlorobenzene	8.987	180	12491	3.7279	ug/l	97
106)	1,2,3-Trichlorobenzene	9.286	180	7439	3.3592	ug/l	96
107)	Naphthalene	9.144	128	17306	2.8148	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 11M111789.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 5 PPB
Data File: 11M111789.D
Acq On : 06/13/23 02:45
Operator : WP
Sam Mult : 1 Vial# : 6
Misc : A,5ML
Qt Meth : 11M_A0613.M
Qt On : 06/13/23 17:47
Qt Upd On: 06/13/23 17:37
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
Time-->

Abundance
TIC: 11M111789.D\data.ms
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Dibromofluoromethane,S
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
Time-->

Abundance
TIC: 11M111789.D\data.ms
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,P
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
4-Chlorotoluene
1,4-Dichlorobenzene-d4,I
1,4-Dichlorobenzene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @10 PPB Operator : WP Qt Meth : 11M_A0613.M
Data File: 11M111790.D Sam Mult : 1 Vial# : 7 Qt On : 06/13/23 17:46
Acq On : 06/13/23 03:04 Misc : A,5ML Qt Upd On: 06/13/23 17:37

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-13-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.958	96	482140	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.546	117	476518	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.813	152	259335	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.582	111	135898	33.43	ug/l	0.00
Spiked Amount 30.000			Recovery = 111.43%			
39) 1,2-Dichloroethane-d4	4.778	67	55180	26.73	ug/l	0.00
Spiked Amount 30.000			Recovery = 89.10%			
66) Toluene-d8	5.787	98	555976	25.53	ug/l	0.00
Spiked Amount 30.000			Recovery = 85.10%			
76) Bromofluorobenzene	7.164	174	217734	31.31	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.37%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.675	51	50450m	10.7260	ug/l	
6) Dichlorodifluoromethane	1.668	85	32796	8.6069	ug/l	94
7) Chloromethane	1.838	50	33797	8.3497	ug/l	91
8) Bromomethane	2.244	94	24300	10.0582	ug/l	92
9) Vinyl Chloride	1.940	62	41577	10.4145	ug/l	99
10) Chloroethane	2.328	64	27591	11.2509	ug/l	96
11) Trichlorofluoromethane	2.550	101	62181	12.3315	ug/l	98
12) Ethyl ether	2.778	59	25985	9.4246	ug/l	100
13) Furan	2.817	39	49178	8.3765	ug/l	90
14) 1,1,2-Trichloro-1,2,2-...	2.974	101	31595	12.4082	ug/l	98
15) Methylene Chloride	3.370	84	35695	11.3155	ug/l	99
16) Acrolein	2.887	56	16897	46.4262	ug/l	100
17) Acrylonitrile	3.572	53	6917	7.7997	ug/l	91
18) Iodomethane	3.116	142	44275	12.6912	ug/l	91
19) Acetone	3.009	43	30488	42.1144	ug/l	98
20) Carbon Disulfide	3.180	76	88054	10.6816	ug/l	100
21) t-Butyl Alcohol	3.440	59	9183	35.9758	ug/l	91
22) n-Hexane	3.810	57	25753	8.0060	ug/l	98
23) Di-isopropyl-ether	3.952	45	67647	7.0856	ug/l	99
24) 1,1-Dichloroethene	2.981	61	50266	10.6561	ug/l	93
25) Methyl Acetate	3.276	43	12638	5.6284	ug/l	100
26) Methyl-t-butyl ether	3.598	73	61904	7.9524	ug/l	97
27) 1,1-Dichloroethane	3.926	63	56679	10.2913	ug/l	96
28) trans-1,2-Dichloroethene	3.601	96	36271	11.6463	ug/l	92
29) Ethyl-t-butyl ether	4.196	59	70267	8.5443	ug/l	99
30) cis-1,2-Dichloroethene	4.305	61	50941	9.7632	ug/l	90
31) Bromochloromethane	4.450	49	21355	8.9286	ug/l	98
32) 2,2-Dichloropropane	4.312	77	46290	9.4020	ug/l	97
33) Ethyl acetate	4.328	43	18041m	7.6330	ug/l	
34) 1,4-Dioxane	5.334	88	15914	571.3749	ug/l	95
35) 1,1-Dichloropropene	4.701	75	45863	11.0155	ug/l	99
36) Chloroform	4.489	83	60673	10.9687	ug/l	100
38) Cyclohexane	4.649	56	36889	8.3112	ug/l	99
40) 1,2-Dichloroethane	4.816	62	39991	9.8457	ug/l	97
41) 2-Butanone	4.312	43	7590m	8.1902	ug/l	
42) 1,1,1-Trichloroethane	4.611	97	55118	10.9149	ug/l	99
43) Carbon Tetrachloride	4.707	117	47578	11.2225	ug/l	99
44) Vinyl Acetate	3.945	43	65170	7.9252	ug/l	100
45) Bromodichloromethane	5.408	83	40401	9.8471	ug/l	98
46) Methylcyclohexane	5.267	83	38596	9.8367	ug/l	97
47) Dibromomethane	5.344	174	24226	13.3020	ug/l	96
48) 1,2-Dichloropropane	5.276	63	30046	9.5891	ug/l	95
49) Trichloroethene	5.154	130	41613	12.6301	ug/l	99
50) Benzene	4.816	78	137800	10.9958	ug/l	100
51) tert-Amyl methyl ether	4.855	73	66615	8.1665	ug/l	93
53) Iso-propylacetate	4.813	43	33205	4.5337	ug/l	91
54) Methyl methacrylate	5.296	41	15649	4.9403	ug/l	88
55) Dibromochloromethane	6.234	129	29513	7.0743	ug/l	97
56) 2-Chloroethylvinylether	5.543	63	7295	4.1321	ug/l	94
57) cis-1,3-Dichloropropene	5.636	75	43340	6.0540	ug/l	100
58) trans-1,3-Dichloropropene	5.913	75	35858	5.7192	ug/l	100
59) Ethyl methacrylate	5.932	41	17157	4.4823	ug/l	92
60) 1,1,2-Trichloroethane	6.016	97	26877	7.7883	ug/l	95
61) 1,2-Dibromoethane	6.312	107	25482	7.3688	ug/l	86
62) 1,3-Dichloropropane	6.109	76	44723	7.3548	ug/l	100
63) 4-Methyl-2-Pentanone	5.701	43	15083	4.6671	ug/l	97
64) 2-Hexanone	6.125	43	10147	4.5352	ug/l	94
65) Tetrachloroethene	6.112	164	33748	9.3237	ug/l	97
67) Toluene	5.823	92	88805	8.0162	ug/l	97

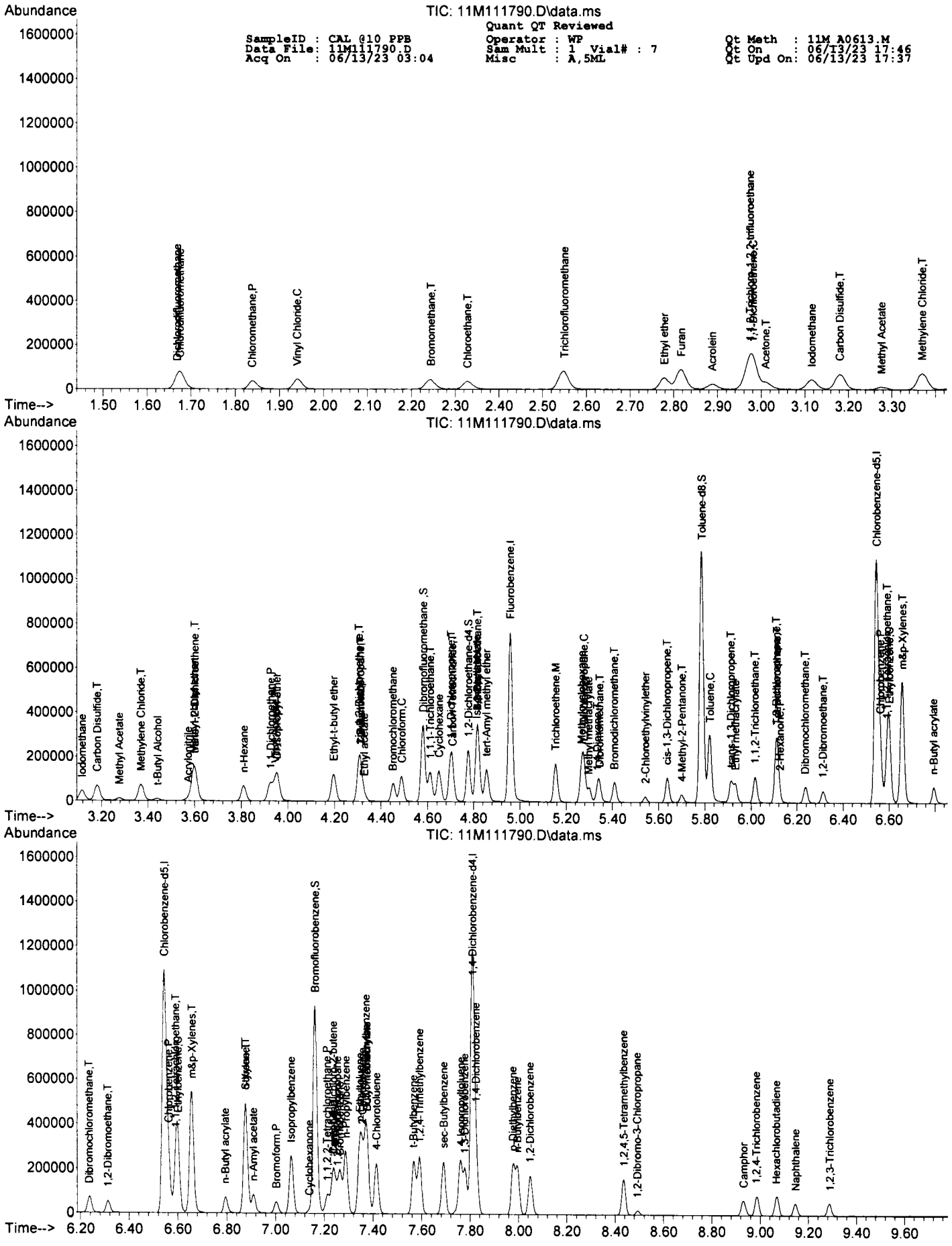
Quantitation Report (QT Reviewed)

SampleID : CAL @10 PPB Operator : WP Qt Meth : 11M_A0613.M
Data File: 11M111790.D Sam Mult : 1 Vial# : 7 Qt On : 06/13/23 17:46
Acq On : 06/13/23 03:04 Misc : A,5ML Qt Upd On: 06/13/23 17:37

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-13-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.591	133	31418	7.4892	ug/l	97
69)	Chlorobenzene	6.562	112	99065	8.3147	ug/l	100
71)	n-Butyl acrylate	6.794	55	32604	3.8504	ug/l	98
72)	n-Amyl acetate	6.910	43	27026	3.9240	ug/l	94
73)	Bromoform	7.003	173	17425	6.0288	ug/l	98
74)	Ethylbenzene	6.601	106	42168	6.8787	ug/l	97
75)	1,1,2,2-Tetrachloroethane	7.212	83	29386	6.3808	ug/l	95
77)	Styrene	6.877	104	91757	6.5922	ug/l	100
78)	m&p-Xylenes	6.659	106	119969	13.8321	ug/l	98
79)	o-Xylene	6.877	106	58478	7.1516	ug/l	95
80)	trans-1,4-Dichloro-2-b...	7.238	53	9782	4.5566	ug/l	77
81)	1,3-Dichlorobenzene	7.778	146	68043	7.2517	ug/l	98
82)	1,4-Dichlorobenzene	7.826	146	67295	7.0127	ug/l	98
83)	1,2-Dichlorobenzene	8.048	146	59271	7.0713	ug/l	99
84)	Isopropylbenzene	7.064	105	128499	6.2548	ug/l	100
85)	Cyclohexanone	7.138	55	5946	13.4549	ug/l	92
86)	Camphene	7.238	93	35497	6.4684	ug/l	97
87)	1,2,3-Trichloropropane	7.254	75	33285	5.4974	ug/l	97
88)	2-Chlorotoluene	7.357	91	84744	6.1094	ug/l	98
89)	p-Ethyltoluene	7.347	105	139627	2.7862	ug/l	99
90)	4-Chlorotoluene	7.414	91	83568	6.3346	ug/l	99
91)	n-Propylbenzene	7.289	91	155535	6.3951	ug/l	100
92)	Bromobenzene	7.263	77	76235	6.0805	ug/l	90
93)	1,3,5-Trimethylbenzene	7.373	105	109159	7.0888	ug/l	96
94)	Butyl methacrylate	7.376	41	25372	4.3065	ug/l	96
95)	t-Butylbenzene	7.566	119	104394	6.7149	ug/l	99
96)	1,2,4-Trimethylbenzene	7.591	105	106600	6.3546	ug/l	97
97)	sec-Butylbenzene	7.691	105	121475	6.7970	ug/l	100
98)	4-Isopropyltoluene	7.762	119	105197	6.8284	ug/l	100
99)	n-Butylbenzene	7.996	91	100212	4.9048	ug/l	98
100)	p-Diethylbenzene	7.977	119	56663	2.5156	ug/l	98
101)	1,2,4,5-Tetramethylben...	8.437	119	66747	2.2143	ug/l	100
102)	1,2-Dibromo-3-Chloropr...	8.492	157	4576	6.5170	ug/l	99
103)	Camphor	8.932	95	13591	106.7056	ug/l	97
104)	Hexachlorobutadiene	9.067	225	14198	7.9246	ug/l	98
105)	1,2,4-Trichlorobenzene	8.983	180	22692	6.7269	ug/l	100
106)	1,2,3-Trichlorobenzene	9.289	180	14789	6.6333	ug/l	98
107)	Naphthalene	9.147	128	33581	5.4252	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 11M111790.D\data.ms
Quant QT Reviewed
SampleID : CAL @10 PPB
Data File: 11M111790.D
Acq On : 06/13/23 03:04
Operator : WP
Sam Mult : 1 Vial# : 7
Misc : A,5ML
Qt Meth : 11M_A0613.M
Qt On : 06/13/23 17:46
Qt Upd On: 06/13/23 17:37
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
Time-->

Abundance
TIC: 11M111790.D\data.ms
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
Time-->

Abundance
TIC: 11M111790.D\data.ms
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
4-Chlorotoluene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,4-Dichlorobenzene
n-Diethylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 50 PPB Operator : WP Qt Meth : 11M_A0613.M
Data File: 11M111794.D Sam Mult : 1 Vial# : 11 Qt On : 06/13/23 17:42
Acq On : 06/13/23 04:20 Misc : A,5ML Qt Upd On: 06/13/23 17:37

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-13-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.958	96	509338	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.543	117	510207	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.813	152	285615	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.579	111	143315	33.37	ug/l	0.00
Spiked Amount 30.000			Recovery = 111.23%			
39) 1,2-Dichloroethane-d4	4.775	67	58057	26.62	ug/l	0.00
Spiked Amount 30.000			Recovery = 88.73%			
66) Toluene-d8	5.784	98	587952	25.22	ug/l	0.00
Spiked Amount 30.000			Recovery = 84.07%			
76) Bromofluorobenzene	7.164	174	237879	31.06	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.53%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.678	51	279402m	56.2304	ug/l	
6) Dichlorodifluoromethane	1.668	85	187665	46.6202	ug/l	99
7) Chloromethane	1.838	50	197617	46.2153	ug/l	96
8) Bromomethane	2.241	94	151914	59.5223	ug/l	98
9) Vinyl Chloride	1.940	62	245342	58.1732	ug/l	99
10) Chloroethane	2.328	64	160371	61.9031	ug/l	95
11) Trichlorofluoromethane	2.546	101	368235	69.1272	ug/l	98
12) Ethyl ether	2.778	59	152264	52.2764	ug/l	100
13) Furan	2.817	39	290575	46.8505	ug/l	91
14) 1,1,2-Trichloro-1,2,2-...	2.974	101	189500	70.4479	ug/l	99
15) Methylene Chloride	3.370	84	209089	62.7428	ug/l	93
16) Acrolein	2.887	56	101227	263.2796	ug/l	100
17) Acrylonitrile	3.566	53	40922	43.6801	ug/l	98
18) Iodomethane	3.116	142	311381	84.4893	ug/l	98
19) Acetone	3.009	43	153877	201.2065	ug/l	92
20) Carbon Disulfide	3.180	76	560948	64.4138	ug/l	100
21) t-Butyl Alcohol	3.437	59	54958	203.8095	ug/l	99
22) n-Hexane	3.810	57	165271	48.6350	ug/l	97
23) Di-isopropyl-ether	3.952	45	444206	44.0435	ug/l	98
24) 1,1-Dichloroethene	2.977	61	307124	61.6318	ug/l	96
25) Methyl Acetate	3.276	43	71022	29.9408	ug/l	100
26) Methyl-t-butyl ether	3.595	73	402466	48.9414	ug/l	98
27) 1,1-Dichloroethane	3.923	63	343189	58.9859	ug/l	98
28) trans-1,2-Dichloroethene	3.601	96	225598	68.5692	ug/l	95
29) Ethyl-t-butyl ether	4.196	59	462521	53.2385	ug/l	99
30) cis-1,2-Dichloroethene	4.305	61	316291	57.3826	ug/l	94
31) Bromochloromethane	4.450	49	128761	50.9605	ug/l	99
32) 2,2-Dichloropropane	4.312	77	281725	54.1658	ug/l	98
33) Ethyl acetate	4.328	43	108781	43.5664	ug/l	95
34) 1,4-Dioxane	5.334	88	89826	3052.8885	ug/l	99
35) 1,1-Dichloropropene	4.698	75	299483	68.0897	ug/l	98
36) Chloroform	4.485	83	365276	62.5098	ug/l	99
38) Cyclohexane	4.649	56	250893	53.5084	ug/l	99
40) 1,2-Dichloroethane	4.816	62	237503	55.3502	ug/l	98
41) 2-Butanone	4.302	43	35623	36.3871	ug/l	92
42) 1,1,1-Trichloroethane	4.611	97	341763	64.0648	ug/l	98
43) Carbon Tetrachloride	4.707	117	306671	68.4735	ug/l	100
44) Vinyl Acetate	3.945	43	443589	51.0632	ug/l	100
45) Bromodichloromethane	5.408	83	251866	58.1103	ug/l	97
46) Methylcyclohexane	5.267	83	262234	63.2650	ug/l	98
47) Dibromomethane	5.341	174	148851	77.3669	ug/l	98
48) 1,2-Dichloropropane	5.276	63	188998	57.0973	ug/l	97
49) Trichloroethene	5.154	130	264035	75.8591	ug/l	98
50) Benzene	4.816	78	850481	64.2405	ug/l	100
51) tert-Amyl methyl ether	4.855	73	449758	52.1926	ug/l	97
53) Iso-propylacetate	4.810	43	224466	28.6241	ug/l	97
54) Methyl methacrylate	5.299	41	102580	30.2454	ug/l	91
55) Dibromochloromethane	6.234	129	197334	44.1777	ug/l	98
56) 2-Chloroethylvinylether	5.540	63	54813	28.9976	ug/l	98
57) cis-1,3-Dichloropropene	5.636	75	295816	38.5927	ug/l	99
58) trans-1,3-Dichloropropene	5.913	75	250801	37.3603	ug/l	98
59) Ethyl methacrylate	5.929	41	123277	30.0798	ug/l	95
60) 1,1,2-Trichloroethane	6.016	97	164114	44.4163	ug/l	98
61) 1,2-Dibromoethane	6.312	107	162162	43.7970	ug/l	95
62) 1,3-Dichloropropane	6.109	76	273713	42.0404	ug/l	99
63) 4-Methyl-2-Pentanone	5.701	43	98859	28.5702	ug/l	99
64) 2-Hexanone	6.119	43	66971	27.9562	ug/l	98
65) Tetrachloroethene	6.112	164	212259	54.7693	ug/l	100
67) Toluene	5.820	92	556473	46.9146	ug/l	100

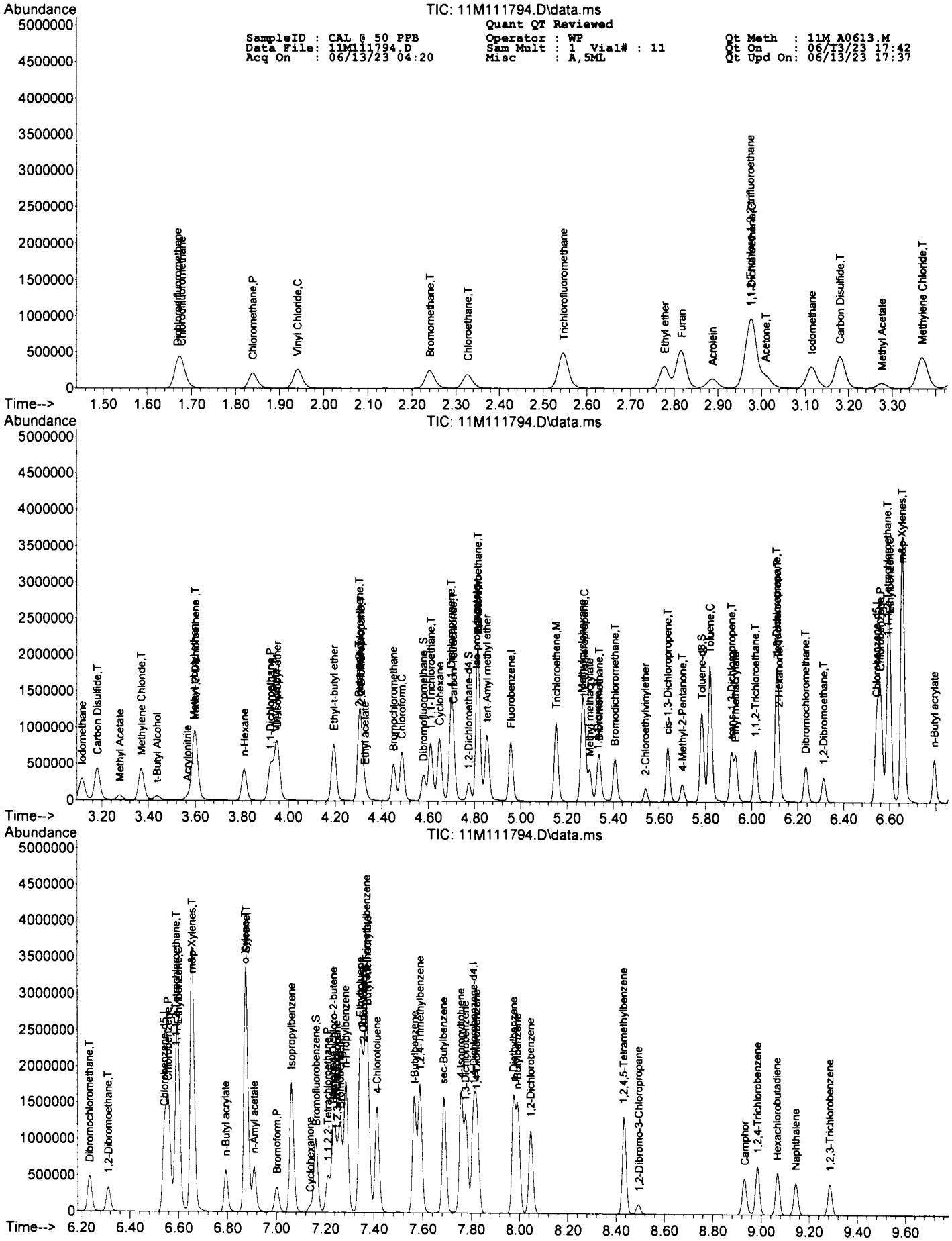
Quantitation Report (QT Reviewed)

SampleID : CAL @ 50 PPB Operator : WP Qt Meth : 11M_A0613.M
Data File: 11M111794.D Sam Mult : 1 Vial# : 11 Qt On : 06/13/23 17:42
Acq On : 06/13/23 04:20 Misc : A,5ML Qt Upd On: 06/13/23 17:37

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-13-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.591	133	203674	45.3444	ug/l	99
69)	Chlorobenzene	6.559	112	607749	47.6414	ug/l	99
71)	n-Butyl acrylate	6.794	55	243472	26.1072	ug/l	98
72)	n-Amyl acetate	6.910	43	199834	26.3448	ug/l	96
73)	Bromoform	7.003	173	121438	38.1500	ug/l	97
74)	Ethylbenzene	6.601	106	281152	41.6433	ug/l	97
75)	1,1,2,2-Tetrachloroethane	7.212	83	181298	35.7444	ug/l	98
77)	Styrene	6.878	104	635419	41.4509	ug/l	98
78)	m&p-Xylenes	6.656	106	804333	84.2046	ug/l	98
79)	o-Xylene	6.874	106	386822	42.9541	ug/l	98
80)	trans-1,4-Dichloro-2-b...	7.238	53	65374	27.6505	ug/l	81
81)	1,3-Dichlorobenzene	7.778	146	435740	42.1663	ug/l	99
82)	1,4-Dichlorobenzene	7.826	146	435075	41.1668	ug/l	98
83)	1,2-Dichlorobenzene	8.048	146	385821	41.7951	ug/l	99
84)	Isopropylbenzene	7.064	105	876244	38.7272	ug/l	99
85)	Cyclohexanone	7.138	55	26491	54.4293	ug/l	98
86)	Camphene	7.234	93	231431	38.2919	ug/l	98
87)	1,2,3-Trichloropropane	7.250	75	215556	32.3258	ug/l	95
88)	2-Chlorotoluene	7.360	91	540128	35.3565	ug/l	99
89)	p-Ethyltoluene	7.347	105	945901	17.1381	ug/l	96
90)	4-Chlorotoluene	7.414	91	537077	36.9655	ug/l	99
91)	n-Propylbenzene	7.286	91	1026896	38.3375	ug/l	100
92)	Bromobenzene	7.263	77	480612	34.8064	ug/l	96
93)	1,3,5-Trimethylbenzene	7.373	105	719394	42.4187	ug/l	95
94)	Butyl methacrylate	7.376	41	165926	25.5718	ug/l	86
95)	t-Butylbenzene	7.569	119	716006	41.8177	ug/l	98
96)	1,2,4-Trimethylbenzene	7.591	105	739447	40.0236	ug/l	98
97)	sec-Butylbenzene	7.688	105	840882	42.7213	ug/l	99
98)	4-Isopropyltoluene	7.758	119	733141	43.2101	ug/l	99
99)	n-Butylbenzene	7.993	91	691749	30.7417	ug/l	99
100)	p-Diethylbenzene	7.977	119	417192	16.8173	ug/l	98
101)	1,2,4,5-Tetramethylben...	8.434	119	541864	16.3217	ug/l	100
102)	1,2-Dibromo-3-Chloropr...	8.495	157	31840	41.1735	ug/l	97
103)	Camphor	8.932	95	100847	718.9174	ug/l	100
104)	Hexachlorobutadiene	9.067	225	91205	46.2223	ug/l	99
105)	1,2,4-Trichlorobenzene	8.987	180	169962	45.7484	ug/l	99
106)	1,2,3-Trichlorobenzene	9.286	180	109936	44.7727	ug/l	99
107)	Naphthalene	9.144	128	279595	41.0141	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 11M111794.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 50 PPB
Data File: 11M111794.D
Acq On : 06/13/23 04:20
Operator : WP
Sam Mult : 1 Vial# : 11
Misc : A,5ML
Qt Meth : 11M A0613.M
Qt On : 06/13/23 17:42
Qt Upd On: 06/13/23 17:37
Abundance
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 100 PPB Operator : WP Qt Meth : 11M_A0613.M
Data File: 11M111796.D Sam Mult : 1 Vial# : 13 Qt On : 06/13/23 17:40
Acq On : 06/13/23 04:57 Misc : A,5ML Qt Upd On: 06/13/23 17:37

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-13-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.958	96	521522	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.546	117	524693	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.813	152	283125	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.579	111	146137	33.23	ug/l	0.00
Spiked Amount 30.000			Recovery = 110.77%			
39) 1,2-Dichloroethane-d4	4.775	67	58083	26.01	ug/l	0.00
Spiked Amount 30.000			Recovery = 86.70%			
66) Toluene-d8	5.784	98	591779	24.68	ug/l	0.00
Spiked Amount 30.000			Recovery = 82.27%			
76) Bromofluorobenzene	7.164	174	260855	34.36	ug/l	0.00
Spiked Amount 30.000			Recovery = 114.53%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.678	51	630732m	123.9710	ug/l	
6) Dichlorodifluoromethane	1.668	85	424998	103.1124	ug/l	97
7) Chloromethane	1.838	50	430039	98.2206	ug/l	96
8) Bromomethane	2.238	94	360837	138.0787	ug/l	97
9) Vinyl Chloride	1.940	62	545508	126.3240	ug/l	99
10) Chloroethane	2.328	64	358547	135.1656	ug/l	93
11) Trichlorofluoromethane	2.546	101	825864	151.4139	ug/l	100
12) Ethyl ether	2.778	59	338523	113.5089	ug/l	100
13) Furan	2.813	39	642148	101.1172	ug/l	87
14) 1,1,2-Trichloro-1,2,2-...	2.971	101	418648	151.9992	ug/l	99
15) Methylene Chloride	3.370	84	464065	136.0019	ug/l	93
16) Acrolein	2.887	56	213096	541.2896	ug/l	99
17) Acrylonitrile	3.566	53	90136	93.9633	ug/l	93
18) Iodomethane	3.116	142	723986	191.8551	ug/l	96
19) Acetone	3.010	43	357053	455.9681	ug/l	91
20) Carbon Disulfide	3.180	76	1249725	140.1536	ug/l	100
21) t-Butyl Alcohol	3.437	59	111197	402.7356	ug/l	99
22) n-Hexane	3.810	57	372761	107.1312	ug/l	94
23) Di-isopropyl-ether	3.952	45	1010634	97.8643	ug/l	98
24) 1,1-Dichloroethene	2.977	61	681652	133.5942	ug/l	96
25) Methyl Acetate	3.276	43	149229	61.4409	ug/l	100
26) Methyl-t-butyl ether	3.595	73	908516	107.8980	ug/l	98
27) 1,1-Dichloroethane	3.923	63	770865	129.3978	ug/l	98
28) trans-1,2-Dichloroethene	3.601	96	496021	147.2405	ug/l	96
29) Ethyl-t-butyl ether	4.196	59	1059457	119.0999	ug/l	99
30) cis-1,2-Dichloroethene	4.305	61	715128	126.7099	ug/l	94
31) Bromochloromethane	4.450	49	285229	110.2494	ug/l	97
32) 2,2-Dichloropropane	4.312	77	640727	120.3112	ug/l	99
33) Ethyl acetate	4.328	43	234854	91.8609	ug/l	97
34) 1,4-Dioxane	5.337	88	189182	6279.4578	ug/l	96
35) 1,1-Dichloropropene	4.698	75	670004	148.7715	ug/l	99
36) Chloroform	4.489	83	813863	136.0228	ug/l	99
38) Cyclohexane	4.649	56	570020	118.7290	ug/l	99
40) 1,2-Dichloroethane	4.816	62	524314	119.3371	ug/l	98
41) 2-Butanone	4.305	43	94010	93.7832	ug/l	94
42) 1,1,1-Trichloroethane	4.611	97	773701	141.6448	ug/l	97
43) Carbon Tetrachloride	4.707	117	695246	151.6079	ug/l	97
44) Vinyl Acetate	3.945	43	964886	108.4768	ug/l	100
45) Bromodichloromethane	5.408	83	574024	129.3443	ug/l	99
46) Methylcyclohexane	5.267	83	590167	139.0539	ug/l	99
47) Dibromomethane	5.341	174	326833	165.9063	ug/l	100
48) 1,2-Dichloropropane	5.276	63	422788	124.7426	ug/l	98
49) Trichloroethene	5.154	130	597989	167.7926	ug/l	99
50) Benzene	4.816	78	1899847	140.1510	ug/l	100
51) tert-Amyl methyl ether	4.855	73	1019304	115.5228	ug/l	98
53) Iso-propylacetate	4.813	43	499283	61.9112	ug/l	95
54) Methyl methacrylate	5.299	41	233258	66.8767	ug/l	93
55) Dibromochloromethane	6.234	129	447618	97.4429	ug/l	100
56) 2-Chloroethylvinylether	5.540	63	125100	64.3543	ug/l	97
57) cis-1,3-Dichloropropene	5.636	75	689917	87.5229	ug/l	98
58) trans-1,3-Dichloropropene	5.913	75	579306	83.9132	ug/l	100
59) Ethyl methacrylate	5.932	41	274957	65.2377	ug/l	92
60) 1,1,2-Trichloroethane	6.016	97	357104	93.9795	ug/l	96
61) 1,2-Dibromoethane	6.315	107	362301	95.1493	ug/l	92
62) 1,3-Dichloropropane	6.109	76	608829	90.9301	ug/l	99
63) 4-Methyl-2-Pentanone	5.697	43	214056	60.1541	ug/l	99
64) 2-Hexanone	6.122	43	152998	62.1037	ug/l	97
65) Tetrachloroethene	6.112	164	474211	118.9827	ug/l	98
67) Toluene	5.820	92	1245380	102.0955	ug/l	100

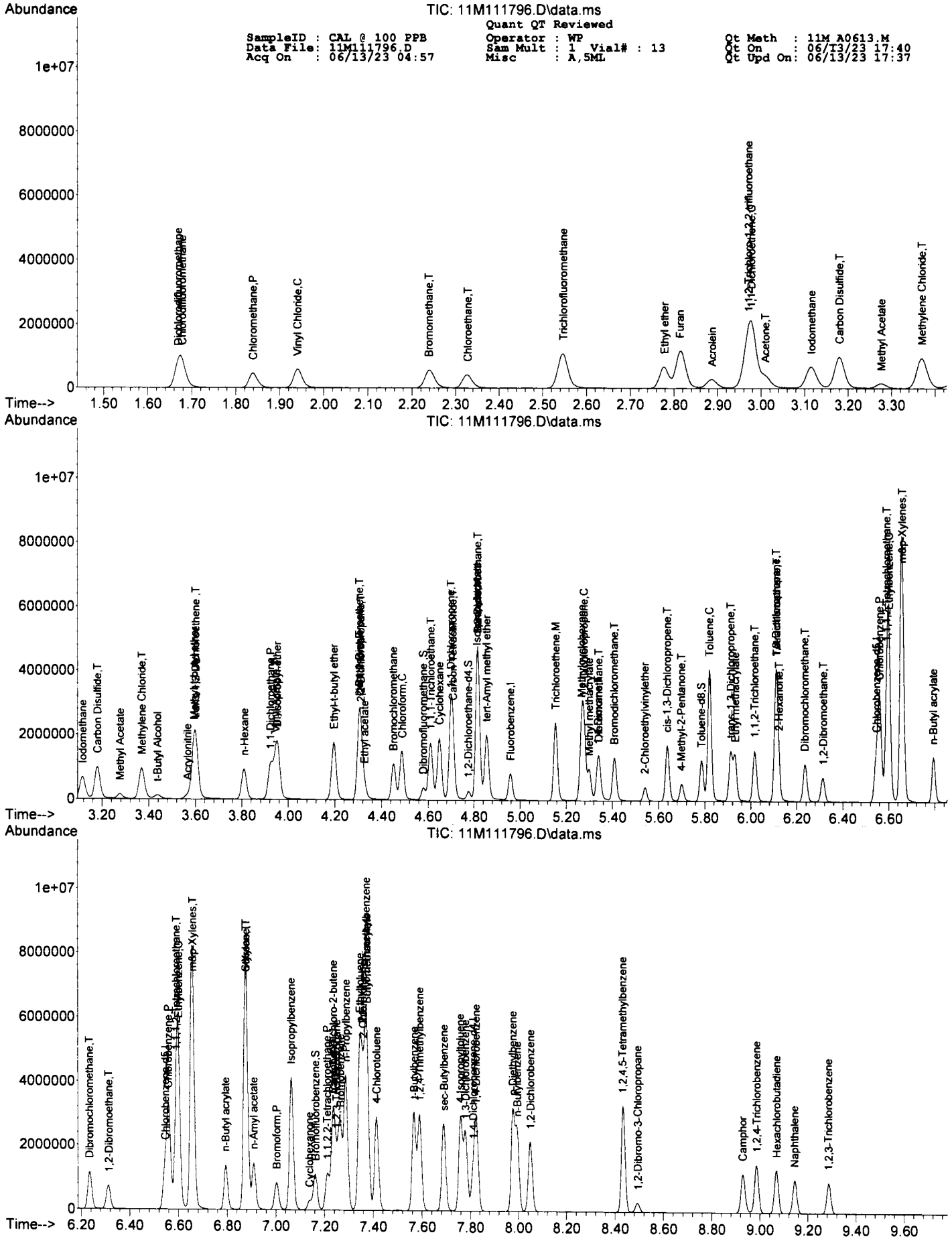
Quantitation Report (QT Reviewed)

SampleID : CAL @ 100 PPB Operator : WP Qt Meth : 11M_A0613.M
Data File: 11M111796.D Sam Mult : 1 Vial# : 13 Qt On : 06/13/23 17:40
Acq On : 06/13/23 04:57 Misc : A,5ML Qt Upd On: 06/13/23 17:37

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-13-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.591	133	462436	100.1108	ug/l	99
69)	Chlorobenzene	6.559	112	1356291	103.3842	ug/l	100
71)	n-Butyl acrylate	6.794	55	583815	63.1522	ug/l	99
72)	n-Amyl acetate	6.910	43	468316	62.2827	ug/l	95
73)	Bromoform	7.003	173	294773	93.4180	ug/l	99
74)	Ethylbenzene	6.601	106	647808	96.7951	ug/l	96
75)	1,1,2,2-Tetrachloroethane	7.212	83	403544	80.2618	ug/l	97
77)	Styrene	6.878	104	1494092	98.3227	ug/l	98
78)	m&p-Xylenes	6.659	106	1822960	192.5217	ug/l	97
79)	o-Xylene	6.878	106	901583	100.9954	ug/l	97
80)	trans-1,4-Dichloro-2-b...	7.238	53	149249	63.6813	ug/l	88
81)	1,3-Dichlorobenzene	7.781	146	881860	86.0876	ug/l	97
82)	1,4-Dichlorobenzene	7.826	146	941391	89.8578	ug/l	98
83)	1,2-Dichlorobenzene	8.051	146	791674	86.5145	ug/l	98
84)	Isopropylbenzene	7.064	105	2095829	93.4435	ug/l	98
85)	Cyclohexanone	7.138	55	87716	181.8092	ug/l	96
86)	Camphene	7.238	93	555955	92.7958	ug/l	97
87)	1,2,3-Trichloropropane	7.250	75	497824	75.3127	ug/l	95
88)	2-Chlorotoluene	7.360	91	1291635	85.2933	ug/l	97
89)	p-Ethyltoluene	7.347	105	2263144	41.3648	ug/l	96
90)	4-Chlorotoluene	7.414	91	1118769	77.6789	ug/l	96
91)	n-Propylbenzene	7.289	91	2443117	92.0120	ug/l	99
92)	Bromobenzene	7.267	77	1128374	82.4367	ug/l	89
93)	1,3,5-Trimethylbenzene	7.373	105	1628856	96.8894	ug/l	97
94)	Butyl methacrylate	7.376	41	372094m	57.8499	ug/l	
95)	t-Butylbenzene	7.569	119	1417599	83.5217	ug/l	93
96)	1,2,4-Trimethylbenzene	7.591	105	1315014	71.8029	ug/l	95
97)	sec-Butylbenzene	7.691	105	1529216	78.3756	ug/l	98
98)	4-Isopropyltoluene	7.758	119	1378630	81.9688	ug/l	97
99)	n-Butylbenzene	7.996	91	1232181	55.2404	ug/l	77
100)	p-Diethylbenzene	7.977	119	862220	35.0623	ug/l	79
101)	1,2,4,5-Tetramethylben...	8.434	119	1360861	41.3516	ug/l	99
102)	1,2-Dibromo-3-Chloropr...	8.495	157	76449	99.7284	ug/l	90
103)	Camphor	8.929	95	244476	1758.1465	ug/l	98
104)	Hexachlorobutadiene	9.070	225	213417	109.1100	ug/l	99
105)	1,2,4-Trichlorobenzene	8.987	180	389644	105.8023	ug/l	99
106)	1,2,3-Trichlorobenzene	9.286	180	245895	101.0243	ug/l	99
107)	Naphthalene	9.144	128	646803	95.7147	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed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Quant QT Reviewed
SampleID : CAL @ 100 PPB
Data File: 11M111796.D
Acq On : 06/13/23 04:57
Operator : WP
Sam Mult : 1 Vial# : 13
Misc : A,5ML
Qt Meth : 11M_A0613.M
QT On : 06/13/23 17:40
Qt Upd On: 06/13/23 17:37
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
Time-->

Abundance
TIC: 11M111796.D\data.ms
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
m&p-Xylenes,T
n-Butyl acrylate
Time-->

Abundance
TIC: 11M111796.D\data.ms
Dibromochloromethane,T
1,2-Dibromoethane,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
4-Chlorotoluene
sec-Butylbenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 250 PPB Operator : WP Qt Meth : 11M_A0613.M
Data File: 11M111799.D Sam Mult : 1 Vial# : 16 Qt On : 06/13/23 17:39
Acq On : 06/13/23 05:54 Misc : A,5ML Qt Upd On: 06/13/23 17:37

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-13-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.958	96	572056	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.543	117	597990	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.813	152	279932	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.579	111	151580	31.43	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.77%			
39) 1,2-Dichloroethane-d4	4.775	67	60423	24.67	ug/l	0.00
Spiked Amount 30.000			Recovery = 82.23%			
66) Toluene-d8	5.787	98	640054	23.42	ug/l	0.00
Spiked Amount 30.000			Recovery = 78.07%			
76) Bromofluorobenzene	7.164	174	127938	17.05	ug/l	0.00
Spiked Amount 30.000			Recovery = 56.83%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.678	51	1595061m	285.8161	ug/l	
6) Dichlorodifluoromethane	1.668	85	1097083	242.6597	ug/l	97
7) Chloromethane	1.838	50	1090447	227.0563	ug/l	96
8) Bromomethane	2.235	94	949730	331.3218	ug/l	97
9) Vinyl Chloride	1.940	62	1396664	294.8565	ug/l	99
10) Chloroethane	2.325	64	902001	309.9997	ug/l	94
11) Trichlorofluoromethane	2.543	101	2108830	352.4788	ug/l	99
12) Ethyl ether	2.775	59	867024	265.0372	ug/l	100
13) Furan	2.813	39	1646426	236.3557	ug/l	89
14) 1,1,2-Trichloro-1,2,2-...	2.968	101	1062923	351.8262	ug/l	99
15) Methylene Chloride	3.370	84	1177428	314.5825	ug/l	95
16) Acrolein	2.887	56	561701	1300.7494	ug/l	99
17) Acrylonitrile	3.566	53	229964	218.5515	ug/l	97
18) Iodomethane	3.116	142	1936588	467.8585	ug/l	94
19) Acetone	3.009	43	856612	997.2868	ug/l	92
20) Carbon Disulfide	3.180	76	3302090	337.6079	ug/l	100
21) t-Butyl Alcohol	3.440	59	299907	990.2564	ug/l	99
22) n-Hexane	3.807	57	975202	255.5138	ug/l	94
23) Di-isopropyl-ether	3.952	45	2627400	231.9480	ug/l	100
24) 1,1-Dichloroethene	2.977	61	1718145	306.9861	ug/l	96
25) Methyl Acetate	3.276	43	376524	141.3290	ug/l	100
26) Methyl-t-butyl ether	3.595	73	2359727	255.4915	ug/l	98
27) 1,1-Dichloroethane	3.923	63	1963690	300.5077	ug/l	98
28) trans-1,2-Dichloroethene	3.598	96	1283841	347.4342	ug/l	97
29) Ethyl-t-butyl ether	4.196	59	2761073	282.9698	ug/l	99
30) cis-1,2-Dichloroethene	4.305	61	1836359	296.6323	ug/l	96
31) Bromochloromethane	4.450	49	722153	254.4754	ug/l	99
32) 2,2-Dichloropropane	4.312	77	1634330	279.7736	ug/l	98
33) Ethyl acetate	4.328	43	608809	217.0939	ug/l	99
34) 1,4-Dioxane	5.337	88	511278	15471.5394	ug/l	99
35) 1,1-Dichloropropene	4.697	75	1738086	351.8421	ug/l	99
36) Chloroform	4.485	83	2087049	318.0001	ug/l	99
38) Cyclohexane	4.649	56	1490377	283.0070	ug/l	99
40) 1,2-Dichloroethane	4.816	62	1338811	277.8032	ug/l	98
41) 2-Butanone	4.305	43	237412	215.9174	ug/l	92
42) 1,1,1-Trichloroethane	4.611	97	2000713	333.9231	ug/l	98
43) Carbon Tetrachloride	4.707	117	1825985	363.0068	ug/l	98
44) Vinyl Acetate	3.942	43	2625622	269.1083	ug/l	100
45) Bromodichloromethane	5.408	83	1547443	317.8820	ug/l	100
46) Methylcyclohexane	5.267	83	1610753	345.9961	ug/l	98
47) Dibromomethane	5.341	174	854092	395.2536	ug/l	99
48) 1,2-Dichloropropane	5.276	63	1131386	304.3245	ug/l	99
49) Trichloroethene	5.154	130	1560895	399.2890	ug/l	99
50) Benzene	4.816	78	4950188	332.9151	ug/l	100
51) tert-Amyl methyl ether	4.855	73	2791890	288.4671	ug/l	100
53) Iso-propylacetate	4.813	43	1323891	144.0409	ug/l	95
54) Methyl methacrylate	5.299	41	627069	157.7484	ug/l	92
55) Dibromochloromethane	6.238	129	1271166	242.8041	ug/l	98
56) 2-Chloroethylvinylether	5.540	63	348880	157.4735	ug/l	98
57) cis-1,3-Dichloropropene	5.636	75	1848104	205.7135	ug/l	100
58) trans-1,3-Dichloropropene	5.913	75	1640484	208.4997	ug/l	99
59) Ethyl methacrylate	5.932	41	748253	155.7735	ug/l	85
60) 1,1,2-Trichloroethane	6.016	97	987889	228.1171	ug/l	96
61) 1,2-Dibromoethane	6.312	107	998103	229.9973	ug/l	94
62) 1,3-Dichloropropane	6.109	76	1673083	219.2509	ug/l	99
63) 4-Methyl-2-Pentanone	5.701	43	567314	139.8855	ug/l	98
64) 2-Hexanone	6.122	43	416562	148.3621	ug/l	97
65) Tetrachloroethene	6.112	164	1316648	289.8633	ug/l	99
67) Toluene	5.820	92	3385756	243.5408	ug/l	97

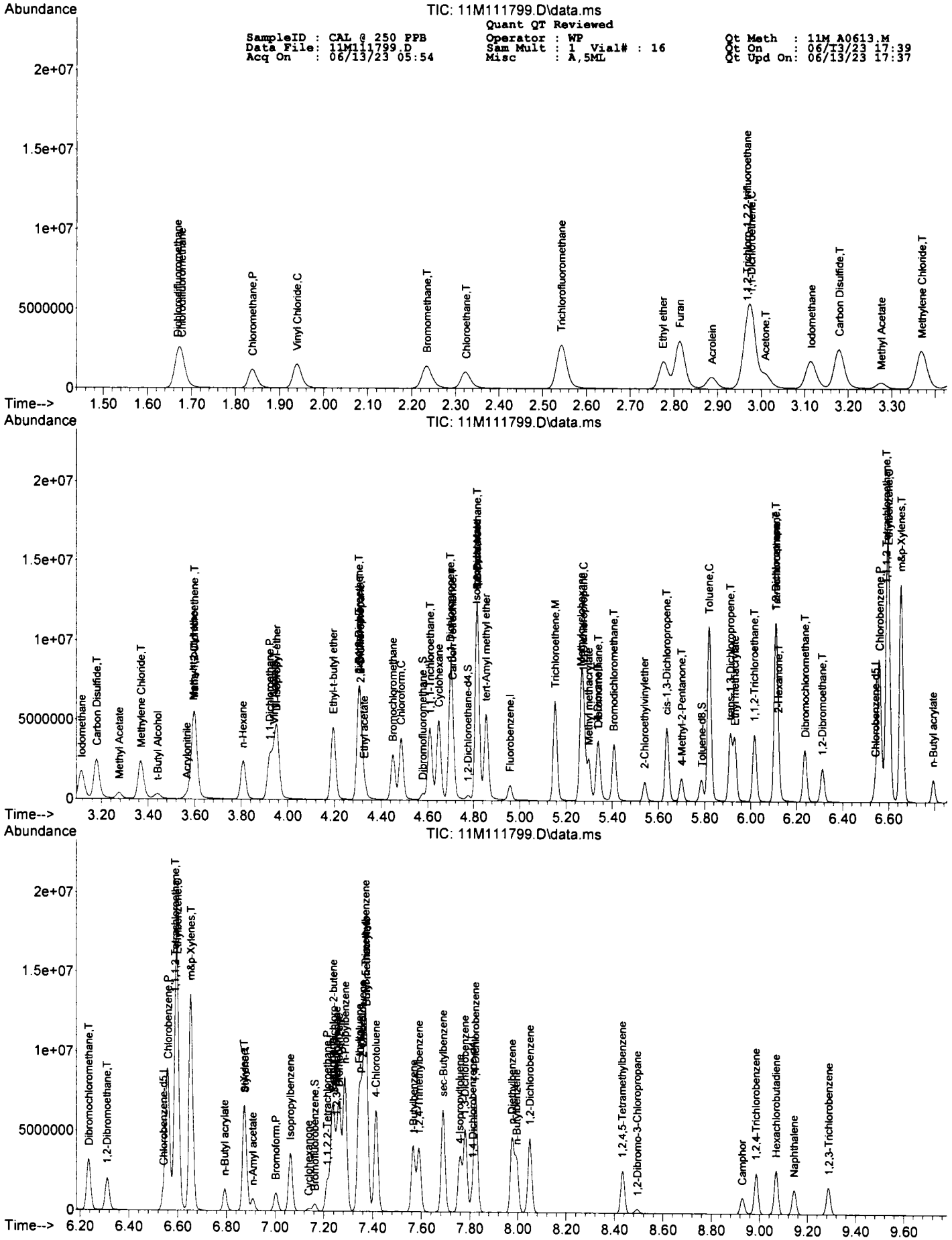
Quantitation Report (QT Reviewed)

SampleID : CAL @ 250 PPB Operator : WP Qt Meth : 11M_A0613.M
Data File: 11M111799.D Sam Mult : 1 Vial# : 16 Qt On : 06/13/23 17:39
Acq On : 06/13/23 05:54 Misc : A,5ML Qt Upd On: 06/13/23 17:37

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-13-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.591	133	1305684	248.0154	ug/l	97
69)	Chlorobenzene	6.562	112	3799463	254.1176	ug/l	98
71)	n-Butyl acrylate	6.794	55	554882	60.7072	ug/l	94
72)	n-Amyl acetate	6.910	43	220603	29.6733	ug/l	83
73)	Bromoform	7.003	173	403285	129.2648	ug/l	99
74)	Ethylbenzene	6.601	106	1827328	276.1527	ug/l	93
75)	1,1,2,2-Tetrachloroethane	7.215	83	621689	125.0596	ug/l	98
77)	Styrene	6.877	104	1358677	90.4312	ug/l	97
78)	m&p-Xylenes	6.656	106	3150708	336.5398	ug/l	91
79)	o-Xylene	6.874	106	866226	98.1415	ug/l	93
80)	trans-1,4-Dichloro-2-b...	7.241	53	284568	122.8039	ug/l	97
81)	1,3-Dichlorobenzene	7.781	146	1780784	175.8238	ug/l	96
82)	1,4-Dichlorobenzene	7.826	146	2449009	236.4296	ug/l	98
83)	1,2-Dichlorobenzene	8.051	146	1634646	180.6725	ug/l	96
84)	Isopropylbenzene	7.064	105	1899531	85.6575	ug/l	95
85)	Cyclohexanone	7.138	55	38170	80.0175	ug/l	77
86)	Camphene	7.238	93	1247005	210.5148	ug/l	94
87)	1,2,3-Trichloropropane	7.254	75	1141750	174.6984	ug/l	95
88)	2-Chlorotoluene	7.360	91	2321732	155.0648	ug/l	95
89)	p-Ethyltoluene	7.347	105	3537504	65.3946	ug/l	93
90)	4-Chlorotoluene	7.414	91	2441537	171.4557	ug/l	96
91)	n-Propylbenzene	7.289	91	5007271	190.7335	ug/l	97
92)	Bromobenzene	7.263	77	2619956	193.5919	ug/l	91
93)	1,3,5-Trimethylbenzene	7.373	105	3290526	197.9633	ug/l	99
94)	Butyl methacrylate	7.376	41	638475m	100.3967	ug/l	
95)	t-Butylbenzene	7.569	119	1998140	119.0686	ug/l	92
96)	1,2,4-Trimethylbenzene	7.591	105	1807848	99.8387	ug/l	93
97)	sec-Butylbenzene	7.691	105	3454707	179.0807	ug/l	96
98)	4-Isopropyltoluene	7.758	119	1728013	103.9139	ug/l	97
99)	n-Butylbenzene	7.996	91	1688735	76.5719	ug/l	73
100)	p-Diethylbenzene	7.977	119	1312021	53.9621	ug/l	76
101)	1,2,4,5-Tetramethylben...	8.434	119	1182620	36.3454	ug/l	97
102)	1,2-Dibromo-3-Chloropr...	8.495	157	77424	102.1524	ug/l	73
103)	Camphor	8.929	95	214904	1563.1080	ug/l	94
104)	Hexachlorobutadiene	9.070	225	463714	239.7791	ug/l	99
105)	1,2,4-Trichlorobenzene	8.987	180	700942	192.5018	ug/l	99
106)	1,2,3-Trichlorobenzene	9.289	180	492229	204.5357	ug/l	99
107)	Naphthalene	9.144	128	1047926	156.8422	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed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Quant QT Reviewed
SampleID : CAL @ 250 PPB
Data File: 11M111799.D
Acq On : 06/13/23 05:54
Operator : WP
Sam Mult : 1 Vial# : 16
Misc : A,5ML
Qt Meth : 11M_A0613.M
Qt On : 06/13/23 17:39
Qt Upd On: 06/13/23 17:37
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 500 PPB Operator : WP Qt Meth : 11M_A0613.M
Data File: 11M111803.D Sam Mult : 1 Vial# : 20 Qt On : 06/13/23 17:38
Acq On : 06/13/23 07:10 Misc : A,5ML Qt Upd On: 06/13/23 17:37

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-13-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.958	96	430516	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.546	117	499359	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.813	152	334131	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.578	111	157095	43.28	ug/l	0.00
Spiked Amount 30.000			Recovery = 144.27%			
39) 1,2-Dichloroethane-d4	4.778	67	64666	35.08	ug/l	0.00
Spiked Amount 30.000			Recovery = 116.93%			
66) Toluene-d8	5.784	98	517732	22.69	ug/l	0.00
Spiked Amount 30.000			Recovery = 75.63%			
76) Bromofluorobenzene	7.164	174	169935	18.97	ug/l	0.00
Spiked Amount 30.000			Recovery = 63.23%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.675	51	3196061m	760.9808	ug/l	
6) Dichlorodifluoromethane	1.665	85	2216141	651.3357	ug/l	97
7) Chloromethane	1.835	50	2285454	632.3401	ug/l	96
8) Bromomethane	2.218	94	1884185	873.4189	ug/l	97
9) Vinyl Chloride	1.937	62	2886167	809.6354	ug/l	99
10) Chloroethane	2.315	64	1869144	853.5839	ug/l	94
11) Trichlorofluoromethane	2.537	101	4217475	936.6841	ug/l	100
12) Ethyl ether	2.771	59	1850698	751.7277	ug/l	100
13) Furan	2.810	39	3428976	654.0901	ug/l	88
14) 1,1,2-Trichloro-1,2,2-...	2.964	101	2063294	907.4794	ug/l	100
15) Methylene Chloride	3.366	84	2485385	882.3546	ug/l	96
16) Acrolein	2.884	56	1244967	3830.8534	ug/l	99
17) Acrylonitrile	3.566	53	507989	641.5013	ug/l	95
18) Iodomethane	3.109	142	4004091	1285.3768	ug/l	94
19) Acetone	3.009	43	1848539	2859.6558	ug/l	90
20) Carbon Disulfide	3.177	76	6946614	943.7265	ug/l	100
21) t-Butyl Alcohol	3.443	59	702871	3083.7982	ug/l	100
22) n-Hexane	3.807	57	1914462	666.5240	ug/l	93
23) Di-isopropyl-ether	3.951	45	5675426	665.7515	ug/l	98
24) 1,1-Dichloroethene	2.971	61	3521150	835.9739	ug/l	97
25) Methyl Acetate	3.273	43	821300	409.6281	ug/l	100
26) Methyl-t-butyl ether	3.595	73	5133706	738.5757	ug/l	97
27) 1,1-Dichloroethane	3.919	63	4125963	838.9909	ug/l	98
28) trans-1,2-Dichloroethene	3.598	96	2678728	963.2504	ug/l	97
29) Ethyl-t-butyl ether	4.196	59	5944831	809.5636	ug/l	99
30) cis-1,2-Dichloroethene	4.305	61	3897210	836.4961	ug/l	95
31) Bromochloromethane	4.450	49	1553514	727.4129	ug/l	99
32) 2,2-Dichloropropane	4.308	77	3335830	758.7874	ug/l	98
33) Ethyl acetate	4.328	43	1371610	649.8999	ug/l	97
34) 1,4-Dioxane	5.337	88	1015425	40829.4492	ug/l	98
35) 1,1-Dichloropropene	4.697	75	3700298	995.3195	ug/l	99
36) Chloroform	4.485	83	4427559	896.4130	ug/l	99
38) Cyclohexane	4.649	56	3151876	795.2787	ug/l	98
40) 1,2-Dichloroethane	4.816	62	2797839	771.4184	ug/l	99
41) 2-Butanone	4.305	43	542127	655.1416	ug/l	94
42) 1,1,1-Trichloroethane	4.611	97	4237841	939.8437	ug/l	99
43) Carbon Tetrachloride	4.704	117	3879780	1024.8821	ug/l	97
44) Vinyl Acetate	3.942	43	5719586	778.9484	ug/l	100
45) Bromodichloromethane	5.408	83	3124447	852.8519	ug/l	99
46) Methylcyclohexane	5.270	83	2988239	852.9170	ug/l	97
47) Dibromomethane	5.340	174	1701211	1046.1129	ug/l	98
48) 1,2-Dichloropropane	5.276	63	2392917	855.2696	ug/l	99
49) Trichloroethene	5.154	130	3291040	1118.6548	ug/l	100
50) Benzene	4.816	78	10579365	945.4110	ug/l	100
51) tert-Amyl methyl ether	4.855	73	5754966	790.1144	ug/l	99
53) Iso-propylacetate	4.813	43	3023695	393.9604	ug/l	94
54) Methyl methacrylate	5.299	41	1221965	368.1201	ug/l	81
55) Dibromochloromethane	6.238	129	2573510	588.6548	ug/l	99
56) 2-Chloroethylvinylether	5.543	63	711441	384.5487	ug/l	98
57) cis-1,3-Dichloropropene	5.636	75	3886197	518.0149	ug/l	100
58) trans-1,3-Dichloropropene	5.913	75	2958335	450.2585	ug/l	99
59) Ethyl methacrylate	5.932	41	1498418	373.5590	ug/l	78
60) 1,1,2-Trichloroethane	6.019	97	2039941	564.0899	ug/l	95
61) 1,2-Dibromoethane	6.315	107	1849068	510.2480	ug/l	94
62) 1,3-Dichloropropane	6.109	76	3536944	555.0513	ug/l	98
63) 4-Methyl-2-Pentanone	5.701	43	936427	276.5057	ug/l	89
64) 2-Hexanone	6.122	43	925038	394.5335	ug/l	96
65) Tetrachloroethene	6.112	164	2683531	707.4752	ug/l	99
67) Toluene	5.820	92	4276497	368.3708	ug/l	94

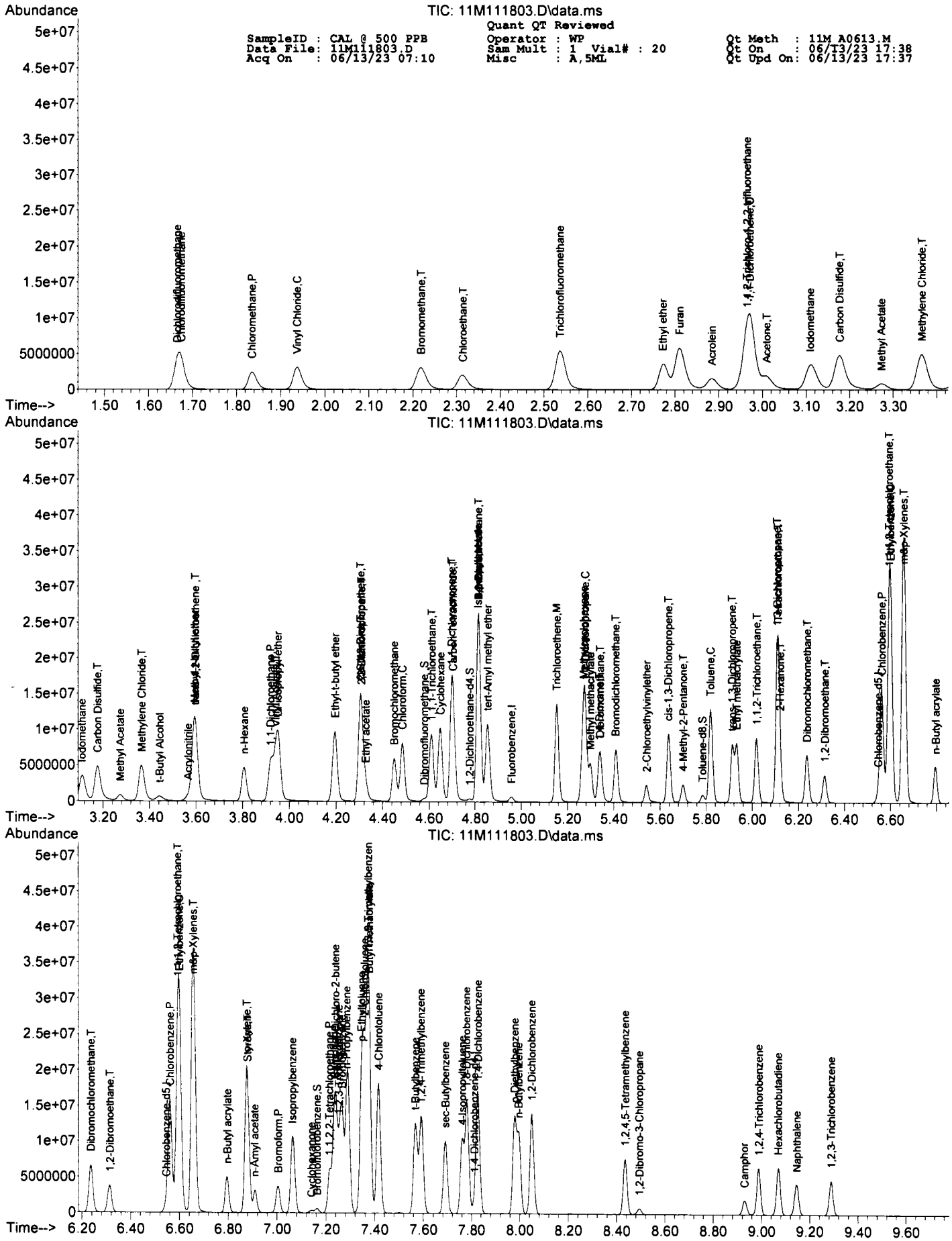
Quantitation Report (QT Reviewed)

SampleID : CAL @ 500 PPB Operator : WP Qt Meth : 11M_A0613.M
Data File: 11M111803.D Sam Mult : 1 Vial# : 20 Qt On : 06/13/23 17:38
Acq On : 06/13/23 07:10 Misc : A,5ML Qt Upd On: 06/13/23 17:37

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-13-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.594	133	2765211	628.9990	ug/l	98
69)	Chlorobenzene	6.562	112	7024198	562.5878	ug/l	97
71)	n-Butyl acrylate	6.797	55	2116940	194.0366	ug/l	95
72)	n-Amyl acetate	6.910	43	933831	105.2344	ug/l	83
73)	Bromoform	7.006	173	1297061	348.3088	ug/l	98
74)	Ethylbenzene	6.601	106	3819008	483.5252	ug/l	55
75)	1,1,2,2-Tetrachloroethane	7.215	83	1934367	326.0007	ug/l	97
77)	Styrene	6.881	104	4286252	239.0097	ug/l	96
78)	m&p-Xylenes	6.659	106	9091221m	813.5538	ug/l	
79)	o-Xylene	6.877	106	2630528	249.6894	ug/l	93
80)	trans-1,4-Dichloro-2-b...	7.241	53	787552	284.7352	ug/l	98
81)	1,3-Dichlorobenzene	7.781	146	5098734	421.7592	ug/l	98
82)	1,4-Dichlorobenzene	7.829	146	5621095	454.6405	ug/l	99
83)	1,2-Dichlorobenzene	8.051	146	4657725	431.2986	ug/l	99
84)	Isopropylbenzene	7.064	105	5817150	219.7683	ug/l	95
85)	Cyclohexanone	7.141	55	96497	169.4776	ug/l	80
86)	Camphene	7.237	93	3041944	430.2307	ug/l	97
87)	1,2,3-Trichloropropane	7.254	75	2884698	369.7891	ug/l	93
88)	2-Chlorotoluene	7.360	91	6648621	372.0218	ug/l	97
89)	p-Ethyltoluene	7.347	105	10315094	159.7547	ug/l	97
90)	4-Chlorotoluene	7.418	91	6849339	402.9702	ug/l	97
91)	n-Propylbenzene	7.286	91	11223554	358.1723	ug/l	93
92)	Bromobenzene	7.266	77	6250682	386.9514	ug/l	95
93)	1,3,5-Trimethylbenzene	7.376	105	8432040	424.9988	ug/l	96
94)	Butyl methacrylate	7.379	41	2075366	273.4046	ug/l	69
95)	t-Butylbenzene	7.569	119	6225281	310.7894	ug/l	93
96)	1,2,4-Trimethylbenzene	7.591	105	5990225	277.1507	ug/l	94
97)	sec-Butylbenzene	7.691	105	5620094	244.0714	ug/l	95
98)	4-Isopropyltoluene	7.762	119	5171887	260.5621	ug/l	97
99)	n-Butylbenzene	7.996	91	5337643	202.7651	ug/l	76
100)	p-Diethylbenzene	7.980	119	3773125	130.0125	ug/l	77
101)	1,2,4,5-Tetramethylben...	8.437	119	3422561	88.1233	ug/l	96
102)	1,2-Dibromo-3-Chloropr...	8.495	157	245121	270.9500	ug/l	74
103)	Camphor	8.929	95	434749	2649.2251	ug/l	93
104)	Hexachlorobutadiene	9.070	225	1078464	467.1997	ug/l	100
105)	1,2,4-Trichlorobenzene	8.990	180	1707005	392.7565	ug/l	99
106)	1,2,3-Trichlorobenzene	9.289	180	1260791	438.9153	ug/l	99
107)	Naphthalene	9.147	128	2916666	365.7250	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed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SampleID : CAL @ 500 PPB
Data File: 11M111803.D
Acq On : 06/13/23 07:10
Operator : WP
Sam Mult : 1 Vial# : 20
Misc : A,5ML
Qt Meth : 11M_A0613.M
Qt On : 06/13/23 17:38
Qt Upd On: 06/13/23 17:37
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
Time-->

Abundance
TIC: 11M111803.D\data.ms
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,C
Dibromofluoromethane,S
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5
Chlorobenzene,P
n-Butyl acrylate
Time-->

Abundance
TIC: 11M111803.D\data.ms
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5
Chlorobenzene,P
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromobenzene,S
4-Chlorotoluene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
4-Isopropyltoluene
1,4-Dichlorobenzene-d4,S
1,4-Dichlorobenzene
n-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 1 PPB Operator : WP Qt Meth : 11M_A0613.M
Data File: 11M111788.D Sam Mult : 1 Vial# : 5 Qt On : 06/13/23 17:49
Acq On : 06/13/23 02:27 Misc : A,5ML Qt Upd On: 06/13/23 17:37

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-13-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.958	96	475232	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.543	117	492582	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.813	152	265257	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.578	111	136369	34.03	ug/l	0.00
Spiked Amount 30.000			Recovery = 113.43%			
39) 1,2-Dichloroethane-d4	4.775	67	58188	28.59	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.30%			
66) Toluene-d8	5.784	98	548107	24.35	ug/l	0.00
Spiked Amount 30.000			Recovery = 81.17%			
76) Bromofluorobenzene	7.164	174	218575	30.73	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.43%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.681	51	5709	1.2314	ug/l	54
6) Dichlorodifluoromethane	1.668	85	4367	1.1627	ug/l	84
7) Chloromethane	1.835	50	5369	1.3457	ug/l	97
8) Bromomethane	2.241	94	4253	1.7860	ug/l	98
9) Vinyl Chloride	1.943	62	5919	1.5042	ug/l	91
10) Chloroethane	2.331	64	4462	1.8459	ug/l	97
11) Trichlorofluoromethane	2.543	101	9285	1.8681	ug/l	99
12) Ethyl ether	2.778	59	3506	1.2901	ug/l	99
13) Furan	2.816	39	7808	1.3493	ug/l	97
14) 1,1,2-Trichloro-1,2,2-...	2.968	101	4294	1.7109	ug/l	70
15) Methylene Chloride	3.366	84	5585	1.7962	ug/l	84
16) Acrolein	2.890	56	2009	5.6002	ug/l	81
17) Acrylonitrile	3.572	53	641	0.7333	ug/l	77
18) Iodomethane	3.109	142	5725	1.6649	ug/l	97
19) Acetone	3.009	43	4452m	6.2391	ug/l	
20) Carbon Disulfide	3.180	76	13961	1.7182	ug/l	100
21) t-Butyl Alcohol	3.443	59	1327m	5.2743	ug/l	
22) n-Hexane	3.807	57	3145	0.9919	ug/l	96
23) Di-isopropyl-ether	3.955	45	8685	0.9229	ug/l	100
24) 1,1-Dichloroethene	2.977	61	7874	1.6935	ug/l	91
25) Methyl Acetate	3.279	43	1517m	0.6854	ug/l	
26) Methyl-t-butyl ether	3.598	73	8433	1.0991	ug/l	90
27) 1,1-Dichloroethane	3.923	63	8608	1.5857	ug/l	92
28) trans-1,2-Dichloroethene	3.601	96	5755	1.8747	ug/l	88
29) Ethyl-t-butyl ether	4.199	59	9205	1.1356	ug/l	97
30) cis-1,2-Dichloroethene	4.305	61	7801	1.5169	ug/l	99
31) Bromochloromethane	4.450	49	3267	1.3858	ug/l	77
32) 2,2-Dichloropropane	4.308	77	6601	1.3602	ug/l	92
33) Ethyl acetate	4.328	43	2092m	0.8980	ug/l	
34) 1,4-Dioxane	5.334	88	1805	65.7486	ug/l	77
35) 1,1-Dichloropropene	4.697	75	6723	1.6382	ug/l	92
36) Chloroform	4.488	83	9596	1.7600	ug/l	98
38) Cyclohexane	4.649	56	5279	1.2067	ug/l	97
40) 1,2-Dichloroethane	4.820	62	6424	1.6046	ug/l	96
41) 2-Butanone	4.315	43	1210m	1.3247	ug/l	
42) 1,1,1-Trichloroethane	4.611	97	8683	1.7445	ug/l	97
43) Carbon Tetrachloride	4.704	117	7633	1.8266	ug/l	96
44) Vinyl Acetate	3.948	43	8635m	1.0653	ug/l	
45) Bromodichloromethane	5.408	83	5793	1.4325	ug/l	94
46) Methylcyclohexane	5.263	83	5342	1.3813	ug/l	94
47) Dibromomethane	5.344	174	3896	2.1703	ug/l	88
48) 1,2-Dichloropropane	5.276	63	4641	1.5027	ug/l	95
49) Trichloroethene	5.157	130	6819	2.0997	ug/l	97
50) Benzene	4.816	78	21303	1.7246	ug/l	100
51) tert-Amyl methyl ether	4.858	73	8276	1.0293	ug/l	84
53) Iso-propylacetate	4.810	43	4417	0.5834	ug/l	93
54) Methyl methacrylate	5.299	41	2336m	0.7134	ug/l	
55) Dibromochloromethane	6.238	129	4225	0.9797	ug/l	95
56) 2-Chloroethylvinylether	5.546	63	932	0.5107	ug/l	84
57) cis-1,3-Dichloropropene	5.639	75	6093	0.8233	ug/l	91
58) trans-1,3-Dichloropropene	5.913	75	5367	0.8281	ug/l	92
59) Ethyl methacrylate	5.929	41	2360	0.5964	ug/l	99
60) 1,1,2-Trichloroethane	6.016	97	4445	1.2461	ug/l	82
61) 1,2-Dibromoethane	6.311	107	3743	1.0471	ug/l	98
62) 1,3-Dichloropropane	6.106	76	6789	1.0801	ug/l	95
63) 4-Methyl-2-Pentanone	5.697	43	1866	0.5586	ug/l	89
64) 2-Hexanone	6.119	43	1228m	0.5310	ug/l	
65) Tetrachloroethene	6.112	164	5652	1.5106	ug/l	83
67) Toluene	5.820	92	14318	1.2503	ug/l	98

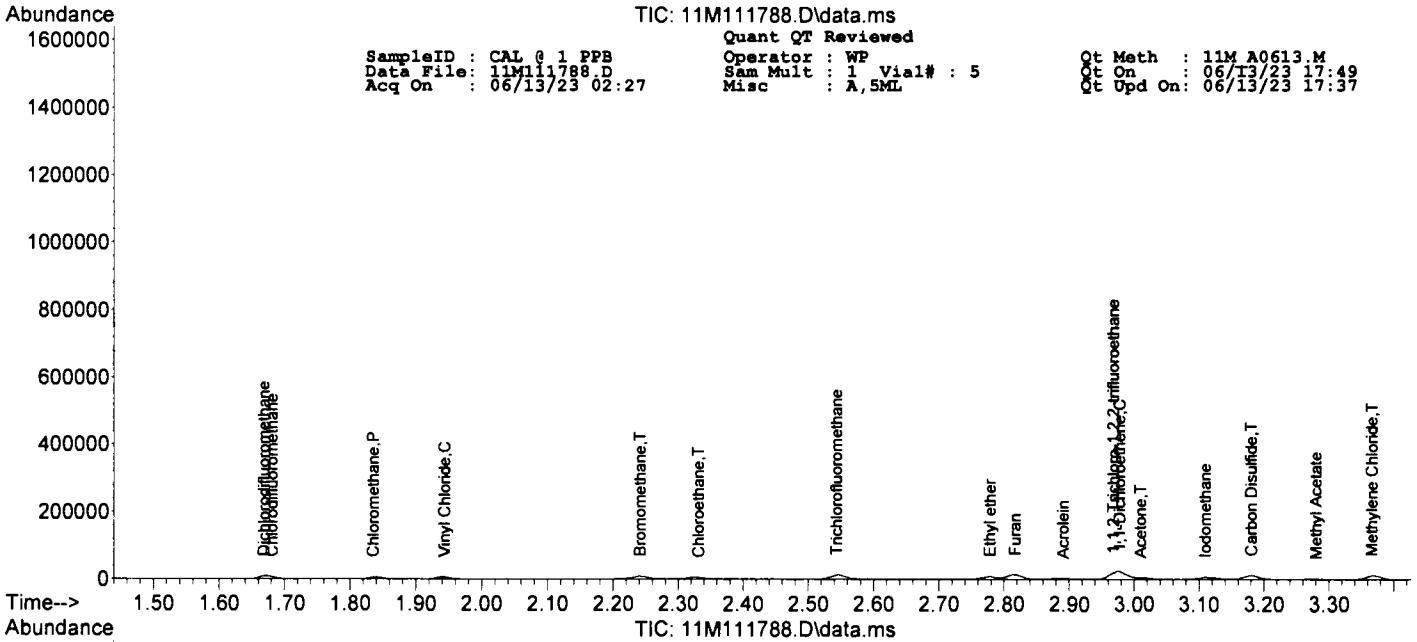
Quantitation Report (QT Reviewed)

SampleID : CAL @ 1 PPB Operator : WP Qt Meth : 11M_A0613.M
Data File: 11M111788.D Sam Mult : 1 Vial# : 5 Qt On : 06/13/23 17:49
Acq On : 06/13/23 02:27 Misc : A,5ML Qt Upd On: 06/13/23 17:37

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-13-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.594	133	5149	1.1874	ug/l	77
69)	Chlorobenzene	6.559	112	17100	1.3884	ug/l	96
71)	n-Butyl acrylate	6.794	55	4146m	0.4787	ug/l	
72)	n-Amyl acetate	6.913	43	3550	0.5039	ug/l	98
73)	Bromoform	7.000	173	2689	0.9096	ug/l	98
74)	Ethylbenzene	6.601	106	7287	1.1622	ug/l	87
75)	1,1,2,2-Tetrachloroethane	7.212	83	5344	1.1345	ug/l	90
77)	Styrene	6.877	104	13786	0.9683	ug/l	95
78)	m&p-Xylenes	6.656	106	19446	2.1920	ug/l	88
79)	o-Xylene	6.874	106	8574	1.0252	ug/l	95
80)	trans-1,4-Dichloro-2-b...	7.234	53	1491	0.6790	ug/l	70
81)	1,3-Dichlorobenzene	7.778	146	11470	1.1951	ug/l	99
82)	1,4-Dichlorobenzene	7.826	146	12477	1.2712	ug/l	85
83)	1,2-Dichlorobenzene	8.048	146	10308	1.2023	ug/l	98
84)	Isopropylbenzene	7.064	105	20095	0.9563	ug/l	98
85)	Cyclohexanone	7.144	55	609	1.3473	ug/l	69
86)	Camphene	7.234	93	4764	0.8487	ug/l	97
87)	1,2,3-Trichloropropane	7.257	75	5316	0.8584	ug/l	99
88)	2-Chlorotoluene	7.356	91	14209	1.0015	ug/l	97
89)	p-Ethyltoluene	7.347	105	22056	0.4303	ug/l	98
90)	4-Chlorotoluene	7.414	91	14136	1.0476	ug/l	98
91)	n-Propylbenzene	7.289	91	24705	0.9931	ug/l	100
92)	Bromobenzene	7.263	77	13177	1.0275	ug/l	97
93)	1,3,5-Trimethylbenzene	7.373	105	15947	1.0125	ug/l	97
94)	Butyl methacrylate	7.379	41	3477	0.5770	ug/l	91
95)	t-Butylbenzene	7.565	119	15446	0.9713	ug/l	99
96)	1,2,4-Trimethylbenzene	7.591	105	15937	0.9288	ug/l	97
97)	sec-Butylbenzene	7.688	105	17601	0.9629	ug/l	100
98)	4-Isopropyltoluene	7.758	119	15700	0.9963	ug/l	96
99)	n-Butylbenzene	7.996	91	14391	0.6886	ug/l	98
100)	p-Diethylbenzene	7.977	119	8226	0.3570	ug/l	95
101)	1,2,4,5-Tetramethylben...	8.434	119	9805m	0.3180	ug/l	
102)	1,2-Dibromo-3-Chloropr...	8.495	157	611	0.8507	ug/l	88
103)	Camphor	8.932	95	1451	11.1378	ug/l	89
104)	Hexachlorobutadiene	9.070	225	2022	1.1034	ug/l	97
105)	1,2,4-Trichlorobenzene	8.987	180	3692	1.0700	ug/l	94
106)	1,2,3-Trichlorobenzene	9.286	180	2360	1.0349	ug/l	95
107)	Naphthalene	9.144	128	5302	0.8374	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed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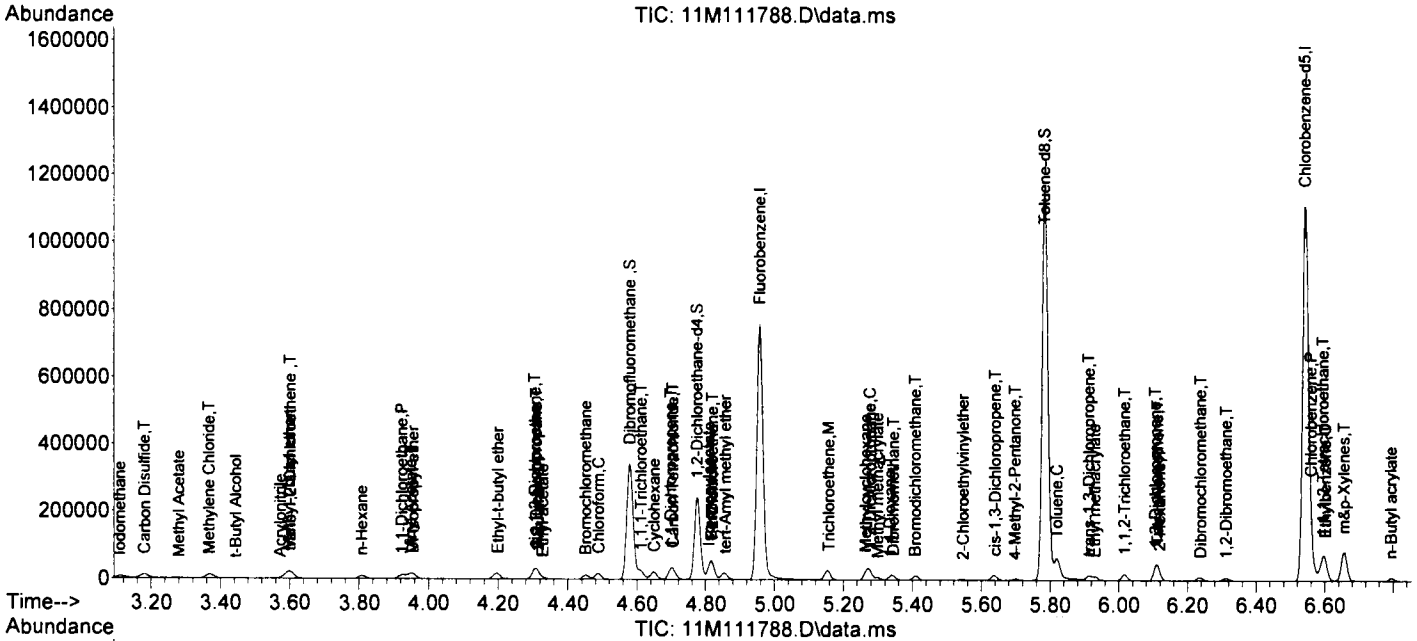
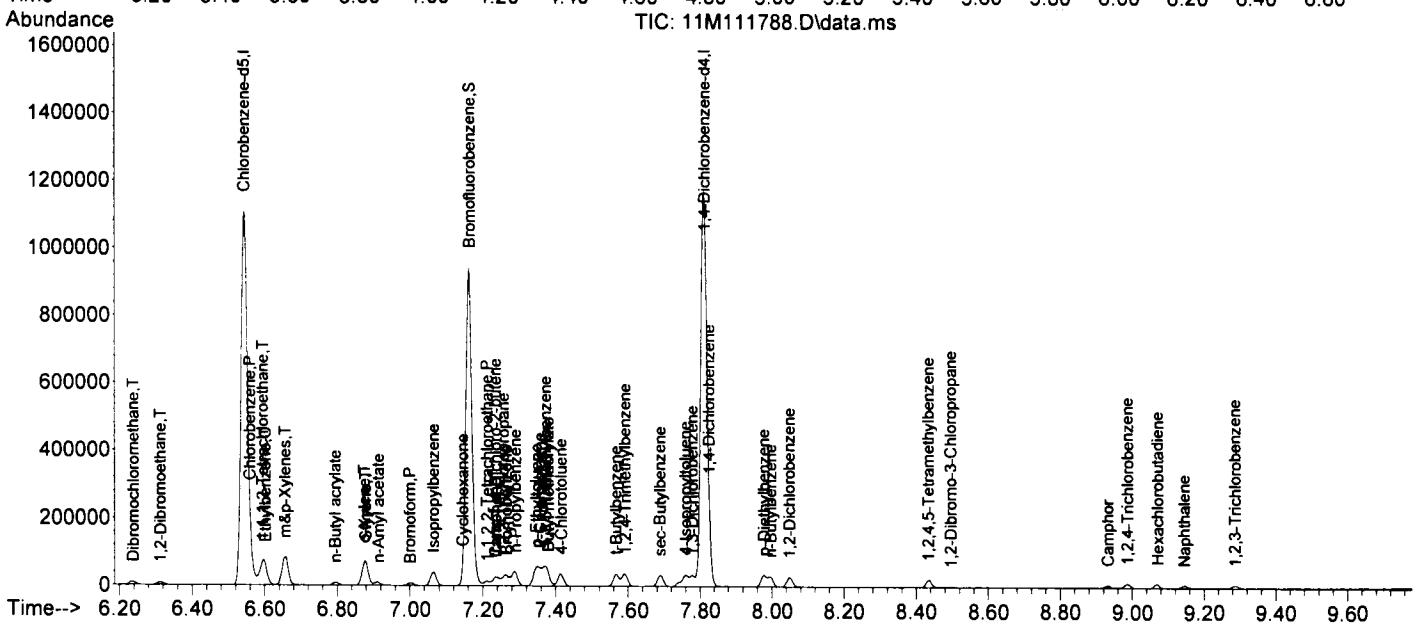
Quant QT Reviewed
SampleID : CAL @ 1 PPB
Data File: 11M111788.D
Acq On : 06/13/23 02:27
Operator : WP
Sam Mult : 1 Vial# : 5
Misc : A,5ML
Qt Meth : 11M_A0613.M
Qrt On : 06/13/23 17:49
Qt Upd On: 06/13/23 17:37
Dichlorodifluoromethane
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
Time-->


Abundance
TIC: 11M111788.D\data.ms
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Dibromofluoromethane ,S
1,1,1-Trichloroethane,T
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
Time-->


Abundance
TIC: 11M111788.D\data.ms
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,P
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
4-Chlorotoluene
1,3,5-Trimethylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,4-Dichlorobenzene
n-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 0.5 PPB Operator : WP Qt Meth : 11M_A0613.M
Data File: 11M111787.D Sam Mult : 1 Vial# : 4 Qt On : 06/13/23 17:51
Acq On : 06/13/23 02:08 Misc : A,5ML Qt Upd On: 06/13/23 17:37

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-13-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.958	96	475222	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.543	117	492517	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.813	152	259267	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.579	111	136553	34.08	ug/l	0.00
Spiked Amount 30.000			Recovery = 113.60%			
39) 1,2-Dichloroethane-d4	4.778	67	57245	28.13	ug/l	0.00
Spiked Amount 30.000			Recovery = 93.77%			
66) Toluene-d8	5.784	98	546869	24.30	ug/l	0.00
Spiked Amount 30.000			Recovery = 81.00%			
76) Bromofluorobenzene	7.164	174	212726	30.60	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.00%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	0.000		0	N.D.	d	
6) Dichlorodifluoromethane	0.000		0	N.D.	d	
7) Chloromethane	0.000		0	N.D.	d	
8) Bromomethane	0.000		0	N.D.	d	
9) Vinyl Chloride	0.000		0	N.D.	d	
10) Chloroethane	0.000		0	N.D.	d	
11) Trichlorofluoromethane	0.000		0	N.D.	d	
12) Ethyl ether	0.000		0	N.D.	d	
13) Furan	0.000		0	N.D.	d	
14) 1,1,2-Trichloro-1,2,2-...	0.000		0	N.D.	d	
15) Methylene Chloride	0.000		0	N.D.	d	
16) Acrolein	0.000		0	N.D.	d	
17) Acrylonitrile	0.000		0	N.D.	d	
18) Iodomethane	0.000		0	N.D.	d	
19) Acetone	0.000		0	N.D.	d	
20) Carbon Disulfide	0.000		0	N.D.	d	
21) t-Butyl Alcohol	0.000		0	N.D.	d	
22) n-Hexane	0.000		0	N.D.	d	
23) Di-isopropyl-ether	0.000		0	N.D.	d	
24) 1,1-Dichloroethene	0.000		0	N.D.	d	
25) Methyl Acetate	0.000		0	N.D.	d	
26) Methyl-t-butyl ether	3.595	73	3409	0.4443	ug/l	94
27) 1,1-Dichloroethane	0.000		0	N.D.	d	
28) trans-1,2-Dichloroethene	0.000		0	N.D.	d	
29) Ethyl-t-butyl ether	0.000		0	N.D.	d	
30) cis-1,2-Dichloroethene	0.000		0	N.D.	d	
31) Bromochloromethane	0.000		0	N.D.	d	
32) 2,2-Dichloropropane	0.000		0	N.D.	d	
33) Ethyl acetate	0.000		0	N.D.	d	
34) 1,4-Dioxane	0.000		0	N.D.	d	
35) 1,1-Dichloropropene	0.000		0	N.D.	d	
36) Chloroform	0.000		0	N.D.	d	
38) Cyclohexane	0.000		0	N.D.	d	
40) 1,2-Dichloroethane	4.820	62	2479	0.6192	ug/l	90
41) 2-Butanone	0.000		0	N.D.	d	
42) 1,1,1-Trichloroethane	0.000		0	N.D.	d	
43) Carbon Tetrachloride	0.000		0	N.D.	d	
44) Vinyl Acetate	0.000		0	N.D.	d	
45) Bromodichloromethane	0.000		0	N.D.	d	
46) Methylcyclohexane	0.000		0	N.D.	d	
47) Dibromomethane	0.000		0	N.D.	d	
48) 1,2-Dichloropropane	0.000		0	N.D.	d	
49) Trichloroethene	0.000		0	N.D.	d	
50) Benzene	4.816	78	7898	0.6394	ug/l	100
51) tert-Amyl methyl ether	0.000		0	N.D.	d	
53) Iso-propylacetate	0.000		0	N.D.	d	
54) Methyl methacrylate	0.000		0	N.D.	d	
55) Dibromochloromethane	0.000		0	N.D.	d	
56) 2-Chloroethylvinylether	0.000		0	N.D.	d	
57) cis-1,3-Dichloropropene	0.000		0	N.D.	d	
58) trans-1,3-Dichloropropene	0.000		0	N.D.	d	
59) Ethyl methacrylate	0.000		0	N.D.	d	
60) 1,1,2-Trichloroethane	0.000		0	N.D.	d	
61) 1,2-Dibromoethane	0.000		0	N.D.	d	
62) 1,3-Dichloropropane	0.000		0	N.D.	d	
63) 4-Methyl-2-Pentanone	0.000		0	N.D.	d	
64) 2-Hexanone	0.000		0	N.D.	d	
65) Tetrachloroethene	0.000		0	N.D.	d	
67) Toluene	0.000		0	N.D.	d	

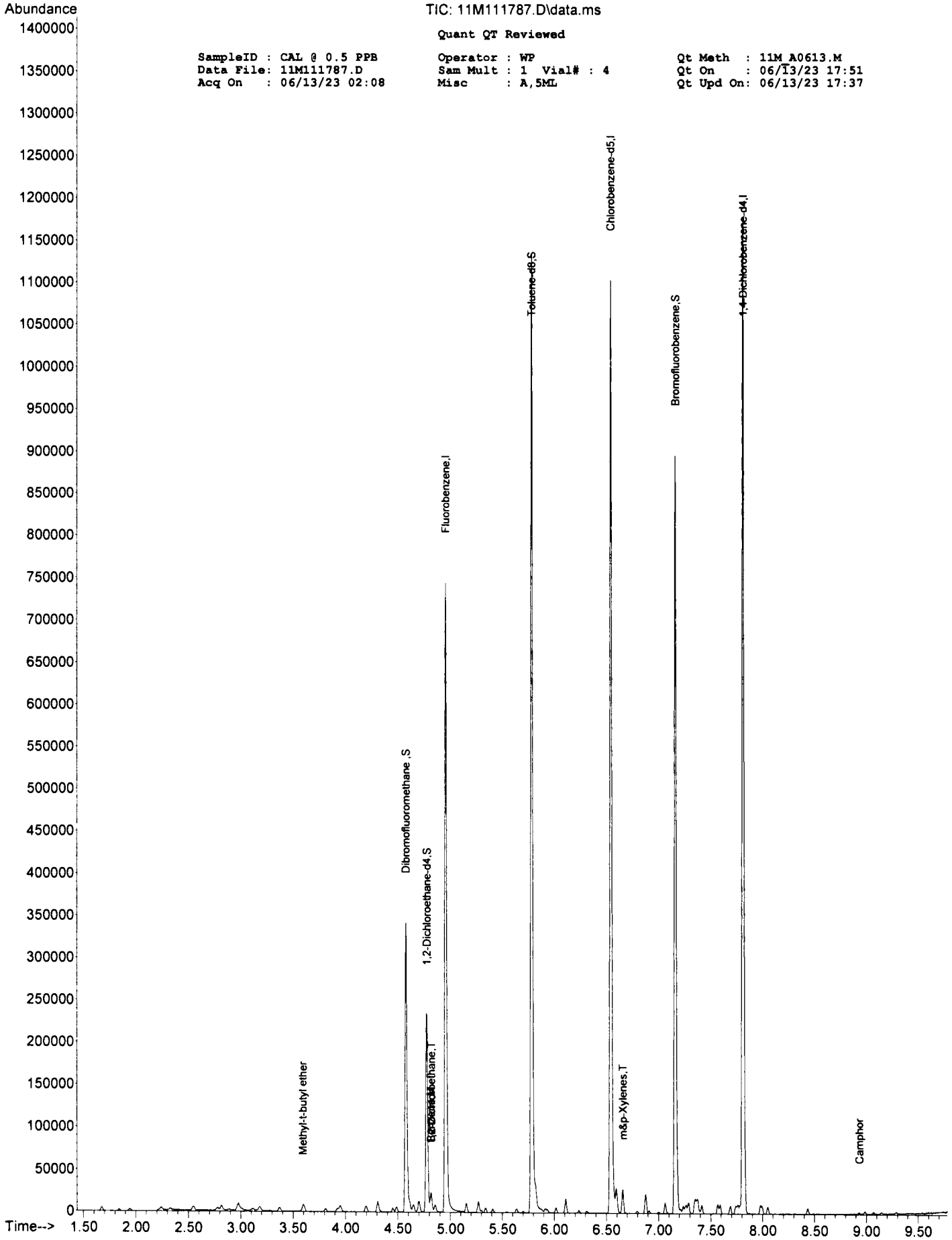
Quantitation Report (QT Reviewed)

SampleID : CAL @ 0.5 PPB Operator : WP Qt Meth : 11M_A0613.M
Data File: 11M111787.D Sam Mult : 1 Vial# : 4 Qt On : 06/13/23 17:51
Acq On : 06/13/23 02:08 Misc : A,5ML Qt Upd On: 06/13/23 17:37

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-13-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	0.000		0	N.D. d		
69)	Chlorobenzene	0.000		0	N.D. d		
71)	n-Butyl acrylate	0.000		0	N.D. d		
72)	n-Amyl acetate	0.000		0	N.D. d		
73)	Bromoform	0.000		0	N.D. d		
74)	Ethylbenzene	0.000		0	N.D. d		
75)	1,1,2,2-Tetrachloroethane	0.000		0	N.D. d		
77)	Styrene	0.000		0	N.D. d		
78)	m&p-Xylenes	6.659	106	6513	0.7511	ug/l	89
79)	o-Xylene	0.000		0	N.D. d		
80)	trans-1,4-Dichloro-2-b...	0.000		0	N.D. d		
81)	1,3-Dichlorobenzene	0.000		0	N.D. d		
82)	1,4-Dichlorobenzene	0.000		0	N.D. d		
83)	1,2-Dichlorobenzene	0.000		0	N.D. d		
84)	Isopropylbenzene	0.000		0	N.D. d		
85)	Cyclohexanone	0.000		0	N.D. d		
86)	Camphene	0.000		0	N.D. d		
87)	1,2,3-Trichloropropane	0.000		0	N.D. d		
88)	2-Chlorotoluene	0.000		0	N.D. d		
89)	p-Ethyltoluene	0.000		0	N.D. d		
90)	4-Chlorotoluene	0.000		0	N.D. d		
91)	n-Propylbenzene	0.000		0	N.D. d		
92)	Bromobenzene	0.000		0	N.D. d		
93)	1,3,5-Trimethylbenzene	0.000		0	N.D. d		
94)	Butyl methacrylate	0.000		0	N.D. d		
95)	t-Butylbenzene	0.000		0	N.D. d		
96)	1,2,4-Trimethylbenzene	0.000		0	N.D. d		
97)	sec-Butylbenzene	0.000		0	N.D. d		
98)	4-Isopropyltoluene	0.000		0	N.D. d		
99)	n-Butylbenzene	0.000		0	N.D. d		
100)	p-Diethylbenzene	0.000		0	N.D. d		
101)	1,2,4,5-Tetramethylben...	0.000		0	N.D. d		
102)	1,2-Dibromo-3-Chloropr...	0.000		0	N.D.		
103)	Camphor	8.932	95	601	4.7198	ug/l	86
104)	Hexachlorobutadiene	0.000		0	N.D. d		
105)	1,2,4-Trichlorobenzene	0.000		0	N.D. d		
106)	1,2,3-Trichlorobenzene	0.000		0	N.D. d		
107)	Naphthalene	0.000		0	N.D. d		

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 11M111787.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 0.5 PPB
Data File: 11M111787.D
Acq On : 06/13/23 02:08
Operator : WP
Sam Mult : 1 Vial# : 4
Misc : A,5ML
Qt Meth : 11M_A0613.M
Qt On : 06/13/23 17:51
Qt Upd On: 06/13/23 17:37
Methyl-t-butyl ether
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
m&p-Xylenes,T
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Camphor
Time-->

TxtDfile: 11M111809.D ICV FORM Date/Time: 06/13/23 09:03

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
Chlorodifluoromethane	1	0		17.7789	20	89		70	130
Dichlorodifluoromethane	1	0		19.5691	20	98		50	150
Chloromethane	1	0		19.18	20	96		70	130
Bromomethane	1	0		22.7493	20	114		70	130
Vinyl Chloride	1	0		19.3132	20	97		70	130
Chloroethane	1	0		18.8778	20	94		70	130
Trichlorofluoromethane	1	0		19.311	20	97		70	130
Ethyl ether	1	0		20.7287	20	104		70	130
Furan	1	0		19.2797	20	96		70	130
1.1.2-Trichloro-1.2.2-trifluoroethane	1	0		19.8719	20	99		70	130
Methylene Chloride	1	0		19.8901	20	99		70	130
Acrolein	1	0		99.2052	100	99		50	150
Acrylonitrile	1	0		21.8948	20	109		50	150
Iodomethane	1	0		21.833	20	109		70	130
Acetone	1	0		99.6678	100	100		50	150
Carbon Disulfide	1	0		19.9445	20	100		70	130
t-Butyl Alcohol	1	0		110.9461	100	111		50	150
n-Hexane	1	0		20.596	20	103		70	130
Di-isopropyl-ether	1	0		22.3918	20	112		70	130
1.1-Dichloroethene	1	0		19.153	20	96		70	130
Methyl Acetate	1	0		22.9338	20	115		70	130
Methyl-t-butyl ether	1	0		21.2142	20	106		70	130
1.1-Dichloroethane	1	0		19.6684	20	98		70	130
trans-1.2-Dichloroethene	1	0		19.5674	20	98		70	130
Ethyl-t-butyl ether	1	0		22.4887	20	112		70	130
cis-1.2-Dichloroethene	1	0		19.5118	20	98		70	130
Bromochloromethane	1	0		19.771	20	99		70	130
2.2-Dichloropropane	1	0		17.3831	20	87		70	130
Ethyl acetate	1	0		20.6016	20	103		70	130
1.4-Dioxane	1	0		1021.617	1000	102		70	130
1.1-Dichloropropene	1	0		19.4745	20	97		70	130
Chloroform	1	0		19.8127	20	99		70	130
Cyclohexane	1	0		21.2154	20	106		70	130
1.2-Dichloroethane	1	0		20.2622	20	101		70	130
2-Butanone	1	0		18.4521	20	92		70	130
1.1.1-Trichloroethane	1	0		19.482	20	97		70	130
Carbon Tetrachloride	1	0		20.1324	20	101		70	130
Vinyl Acetate	1	0		21.3642	20	107		70	130
Bromodichloromethane	1	0		20.574	20	103		70	130
Methylcyclohexane	1	0		21.1563	20	106		70	130
Dibromomethane	1	0		20.8071	20	104		70	130
1.2-Dichloropropane	1	0		20.1619	20	101		70	130
Trichloroethene	1	0		20.7984	20	104		70	130
Benzene	1	0		19.9794	20	100		70	130
Iso-propylacetate	1	0		21.2265	20	106		70	130
Methyl methacrylate	1	0		22.529	20	113		70	130
Dibromochloromethane	1	0		21.0407	20	105		70	130
2-Chloroethylvinylether	1	0		22.731	20	114		70	130
cis-1.3-Dichloropropene	1	0		20.8474	20	104		70	130
trans-1.3-Dichloropropene	1	0		21.1623	20	106		70	130
Ethyl methacrylate	1	0		21.1676	20	106		70	130
1.1.2-Trichloroethane	1	0		20.8597	20	104		70	130
1.2-Dibromoethane	1	0		22.006	20	110		70	130
1.3-Dichloropropane	1	0		21.0295	20	105		70	130
4-Methyl-2-Pentanone	1	0		23.2159	20	116		70	130
2-Hexanone	1	0		23.6812	20	118		70	130
Tetrachloroethene	1	0		19.7908	20	99		70	130
Toluene	1	0		21.8636	20	109		70	130
1.1.1.2-Tetrachloroethane	1	0		20.5592	20	103		70	130
Chlorobenzene	1	0		20.543	20	103		70	130
n-Butyl acrylate	1	0		22.7717	20	114		70	130
n-Amyl acetate	1	0		22.644	20	113		70	130
Bromoform	1	0		22.0572	20	110		70	130
Ethylbenzene	1	0		19.8376	20	99		70	130
1.1.2.2-Tetrachloroethane	1	0		18.4121	20	92		70	130
Styrene	1	0		22.3605	20	112		70	130
m&p-Xylenes	1	0		45.1579	40	113		70	130
o-Xylene	1	0		22.1596	20	111		70	130
trans-1.4-Dichloro-2-butene	1	0		21.5327	20	108		70	130
1.3-Dichlorobenzene	1	0		22.0872	20	110		70	130
1.4-Dichlorobenzene	1	0		20.669	20	103		70	130
1.2-Dichlorobenzene	1	0		22.3011	20	112		70	130
Isopropylbenzene	1	0		21.7358	20	109		70	130
1.2.3-Trichloropropane	1	0		20.6072	20	103		70	130
2-Chlorotoluene	1	0		21.6565	20	108		70	130
4-Chlorotoluene	1	0		21.4693	20	107		70	130
n-Propylbenzene	1	0		21.7487	20	109		70	130
Bromobenzene	1	0		20.5425	20	103		70	130
1.3.5-Trimethylbenzene	1	0		22.3546	20	112		70	130
Butyl methacrylate	1	0		23.2243	20	116		70	130
t-Butylbenzene	1	0		23.187	20	116		70	130
1.2.4-Trimethylbenzene	1	0		23.8662	20	119		70	130
sec-Butylbenzene	1	0		25.394	20	127		70	130
4-Isopropyltoluene	1	0		23.749	20	119		70	130
n-Butylbenzene	1	0		24.586	20	123		70	130
1.2-Dibromo-3-Chloropropane	1	0		23.5328	20	118		70	130
Hexachlorobutadiene	1	0		22.1958	20	111		70	130
1.2.4-Trichlorobenzene	1	0		23.5873	20	118		70	130
1.2.3-Trichlorobenzene	1	0		24.3851	20	122		70	130
Naphthalene	1	0		25.453	20	127		70	130

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 11M112468.D **Instrument:** GCMS 11

Cont Calibration Date/Time 6/26/2023 8:22:00 A Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	4.96	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.68	26.60	20	20	0.1	0.337	0.449	33.01	C1
Dichlorodifluoromethane	1	0		1.67	20.27	20	20	0.1	0.239	0.242	1.35	
Chloromethane	1	0		1.84	17.93	20	20	0.1	0.255	0.228	10.34	
Bromomethane	1	0		2.24	20.76	20	20	0.1	0.192	0.199	3.80	
Vinyl Chloride	1	0		1.94	19.26	20	20	0.1	0.311	0.299	3.70	
Chloroethane	1	0		2.32	19.76	20	20	0.1	0.209	0.206	1.20	
Trichlorofluoromethane	1	0		2.55	23.59	20	20	0.1	0.469	0.553	17.94	
Ethyl ether	1	0		2.78	21.70	20	20	0.5	0.192	0.208	8.49	
Furan	1	0		2.82	23.64	20	20	0.5	0.374	0.443	18.18	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		2.97	23.82	20	20	0.1	0.234	0.279	19.08	
Methylene Chloride	1	0		3.37	22.61	20	20	0.1	0.270	0.305	13.03	
Acrolein	1	0		2.89	84.23	100	20		0.024	0.021	15.77	
Acrylonitrile	1	0		3.57	24.98	20	20		0.050	0.062	24.91	C1
Iodomethane	1	0		3.12	17.75	20	20		0.372	0.272	11.25	
Acetone	1	0		3.01	116.81	100	20	0.1	0.041	0.048	16.81	
Carbon Disulfide	1	0		3.18	23.42	20	20	0.1	0.673	0.788	17.09	
t-Butyl Alcohol	1	0		3.44	118.95	100	20		0.013	0.015	18.95	
n-Hexane	1	0		3.81	25.50	20	20		0.198	0.253	27.51	C1
Di-isopropyl-ether	1	0		3.95	27.05	20	20		0.508	0.686	35.26	C1
1,1-Dichloroethene	1	0		2.98	23.87	20	20	0.1	0.388	0.463	19.33	
Methyl Acetate	1	0		3.28	25.45	20	20	0.1	0.087	0.111	27.23	C1
Methyl-t-butyl ether	1	0		3.59	23.82	20	20	0.1	0.489	0.582	19.11	
1,1-Dichloroethane	1	0		3.92	23.55	20	20	0.2	0.437	0.515	17.73	
trans-1,2-Dichloroethene	1	0		3.60	22.61	20	20	0.1	0.284	0.321	13.04	
Ethyl-t-butyl ether	1	0		4.20	23.75	20	20	0.5	0.530	0.629	18.74	
cis-1,2-Dichloroethene	1	0		4.31	24.87	20	20	0.1	0.402	0.500	24.36	C1
Bromochloromethane	1	0		4.45	26.71	20	20		0.165	0.220	33.55	C1
2,2-Dichloropropane	1	0		4.31	26.55	20	20		0.353	0.469	32.74	C1
Ethyl acetate	1	0		4.33	23.15	20	20		0.134	0.155	15.77	
1,4-Dioxane	1	0		5.34	1156.22	1000	20		0.002	0.002	15.62	
1,1-Dichloropropene	1	0		4.70	23.48	20	20		0.370	0.434	17.39	
Chloroform	1	0		4.49	25.22	20	20	0.2	0.470	0.593	26.09	C1
Dibromofluoromethane	1	0	S	4.58	31.02	30	**		0.290	0.300	3.39	
Cyclohexane	1	0		4.65	25.12	20	20	0.1	0.287	0.360	25.60	C1
1,2-Dichloroethane-d4	1	0	S	4.78	30.64	30	**		0.119	0.122	2.12	
1,2-Dichloroethane	1	0		4.82	25.76	20	20	0.1	0.307	0.395	28.80	C1
2-Butanone	1	0		4.30	16.28	20	20	0.1	0.056	0.045	18.61	
1,1,1-Trichloroethane	1	0		4.61	24.39	20	20	0.1	0.436	0.532	21.96	C1
Carbon Tetrachloride	1	0		4.70	25.83	20	20	0.1	0.367	0.474	29.17	C1
Vinyl Acetate	1	0		3.95	28.45	20	20		0.497	0.707	42.26	C1
Bromodichloromethane	1	0		5.41	26.92	20	20	0.2	0.319	0.429	34.60	C1
Methylcyclohexane	1	0		5.27	24.93	20	20	0.1	0.312	0.389	24.67	C1
Dibromomethane	1	0		5.34	23.30	20	20		0.188	0.219	16.52	
1,2-Dichloropropane	1	0		5.28	24.22	20	20	0.1	0.242	0.293	21.09	C1
Trichloroethene	1	0		5.15	24.89	20	20	0.2	0.322	0.400	24.46	C1
Benzene	1	0		4.82	23.39	20	20	0.5	1.074	1.256	16.93	
tert-Amyl methyl ether	1	0		4.85	24.69	20	20		0.509	0.628	23.45	C1
Chlorobenzene-d5	1	0	I	6.54	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.81	21.44	20	20	0.5	0.262	0.281	7.21	
Methyl methacrylate	1	0		5.30	21.46	20	20	0.5	0.123	0.132	7.31	
Dibromochloromethane	1	0		6.24	22.18	20	20	0.1	0.235	0.260	10.91	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 11M112468.D **Instrument:** GCMS 11

Cont Calibration Date/Time 6/26/2023 8:22:00 A Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.54	21.73	20	20		0.058	0.063	8.66	
cis-1,3-Dichloropropene	1	0		5.64	21.39	20	20	0.2	0.351	0.375	6.94	
trans-1,3-Dichloropropene	1	0		5.91	21.34	20	20	0.1	0.295	0.315	6.72	
Ethyl methacrylate	1	0		5.93	21.64	20	20	0.5	0.139	0.151	8.18	
1,1,2-Trichloroethane	1	0		6.02	21.24	20	20	0.1	0.205	0.218	6.19	
1,2-Dibromoethane	1	0		6.31	21.97	20	20	0.1	0.193	0.212	9.86	
1,3-Dichloropropane	1	0		6.11	21.09	20	20		0.340	0.358	5.47	
4-Methyl-2-Pentanone	1	0		5.70	23.02	20	20	0.1	0.108	0.124	15.11	
2-Hexanone	1	0		6.12	23.89	20	20	0.1	0.073	0.088	19.45	
Tetrachloroethene	1	0		6.11	19.46	20	20	0.2	0.265	0.258	2.69	
Toluene-d8	1	0	S	5.78	28.26	30	**		1.118	1.053	5.82	
Toluene	1	0		5.82	21.72	20	20	0.4	0.650	0.707	8.62	
1,1,1,2-Tetrachloroethane	1	0		6.59	20.89	20	20		0.253	0.264	4.44	
Chlorobenzene	1	0		6.56	20.25	20	20	0.5	0.762	0.771	1.26	
1,4-Dichlorobenzene-d4	1	0	I	7.81	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		6.79	19.75	20	20	0.5	0.461	0.455	1.27	
n-Amyl acetate	1	0		6.91	21.23	20	20	0.5	0.380	0.403	6.16	
Bromoform	1	0		7.00	20.83	20	20	0.1	0.250	0.260	4.16	
Ethylbenzene	1	0		6.60	17.74	20	20	0.1	0.643	0.570	11.29	
1,1,2,2-Tetrachloroethane	1	0		7.21	17.03	20	20	0.1	0.390	0.400	14.86	
Bromofluorobenzene	1	0	S	7.16	28.46	30	**		0.797	0.756	5.13	
Styrene	1	0		6.88	20.01	20	20	0.3	1.303	1.304	0.06	
m&p-Xylenes	1	0		6.66	39.52	40	20	0.1	0.817	0.807	1.21	
o-Xylene	1	0		6.87	19.52	20	20	0.3	0.814	0.794	2.42	
trans-1,4-Dichloro-2-butene	1	0		7.24	20.93	20	20		0.134	0.141	4.64	
1,3-Dichlorobenzene	1	0		7.78	20.60	20	20	0.6	0.913	0.940	2.99	
1,4-Dichlorobenzene	1	0		7.83	19.44	20	20	0.5	0.984	0.957	2.79	
1,2-Dichlorobenzene	1	0		8.05	20.67	20	20	0.4	0.815	0.843	3.37	
Isopropylbenzene	1	0		7.06	20.92	20	20	0.1	1.833	1.917	4.59	
Cyclohexanone	1	0		7.14	114.99	100	20		0.012	0.014	14.99	
Camphene	1	0		7.24	18.57	20	20		0.496	0.460	7.13	
1,2,3-Trichloropropane	1	0		7.25	19.62	20	20		0.472	0.464	1.88	
2-Chlorotoluene	1	0		7.36	19.93	20	20		1.172	1.168	0.33	
p-Ethyltoluene	1	0		7.34	19.53	20	20		1.916	1.871	2.35	
4-Chlorotoluene	1	0		7.41	20.62	20	20		1.156	1.192	3.10	
n-Propylbenzene	1	0		7.29	19.95	20	20		2.172	2.167	0.23	
Bromobenzene	1	0		7.26	18.98	20	20		1.086	1.031	5.10	
1,3,5-Trimethylbenzene	1	0		7.37	20.88	20	20		1.486	1.551	4.38	
Butyl methacrylate	1	0		7.38	22.32	20	20	0.5	0.338	0.377	11.61	
t-Butylbenzene	1	0		7.57	21.42	20	20		1.420	1.521	7.10	
1,2,4-Trimethylbenzene	1	0		7.59	22.18	20	20		1.442	1.599	10.88	
sec-Butylbenzene	1	0		7.69	22.20	20	20		1.538	1.707	10.99	
4-Isopropyltoluene	1	0		7.76	21.20	20	20		1.429	1.515	6.02	
n-Butylbenzene	1	0		7.99	22.64	20	20		1.338	1.514	13.18	
p-Diethylbenzene	1	0		7.98	21.07	20	20		0.754	0.795	5.35	
1,2,4,5-Tetramethylbenzene	1	0		8.44	19.89	20	20		0.944	0.938	0.55	
1,2-Dibromo-3-Chloropropane	1	0		8.49	20.93	20	20	0.05	0.062	0.065	4.65	
Camphor	1	0		8.93	231.49	200	20		0.016	0.019	15.74	
Hexachlorobutadiene	1	0		9.07	18.84	20	20		0.194	0.182	5.80	
1,2,4-Trichlorobenzene	1	0		8.99	19.19	20	20	0.2	0.329	0.316	4.06	
1,2,3-Trichlorobenzene	1	0		9.29	16.93	20	20		0.216	0.183	15.37	
Naphthalene	1	0		9.14	21.06	20	20		0.509	0.516	5.32	

S-Surrogate Compound
N/O or N/Q - Not applicable for this run

I-Internal Standard Compound
C1-Compound %Diff exceeds limits

** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F.
624 limits are compared against the concentration found.
625 limits are compared against the %DIFF.
524.2 limits are compared against the %DIFF

Quantitation Report (QT Reviewed)

SampleID : CAL @ 20 PPB Operator : sg Qt Meth : 11M_A0613.M
Data File: 11M112468.D Sam Mult : 1 Vial# : 3 Qt On : 06/26/23 08:40
Acq On : 06/26/23 08:22 Misc : A,5ML Qt Upd On: 06/13/23 18:32

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-26-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.958	96	450705	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.543	117	536611	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.810	152	332551	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.578	111	135185	31.02	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.40%			
39) 1,2-Dichloroethane-d4	4.778	67	54816	30.63	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.10%			
66) Toluene-d8	5.784	98	565053	28.26	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.20%			
76) Bromofluorobenzene	7.164	174	251393	28.46	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.87%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.678	51	134829m	26.6020	ug/l	
6) Dichlorodifluoromethane	1.668	85	72734	20.2707	ug/l	97
7) Chloromethane	1.838	50	68643	17.9315	ug/l	95
8) Bromomethane	2.241	94	59880	20.7610	ug/l	95
9) Vinyl Chloride	1.940	62	89947	19.2606	ug/l	97
10) Chloroethane	2.324	64	62025	19.7598	ug/l	99
11) Trichlorofluoromethane	2.546	101	166212	23.5888	ug/l	94
12) Ethyl ether	2.778	59	62572	21.6981	ug/l	97
13) Furan	2.816	39	132965	23.6358	ug/l	100
14) 1,1,2-Trichloro-1,2,2-...	2.968	101	83804m	23.8152	ug/l	
15) Methylene Chloride	3.369	84	91710	22.6050	ug/l	98
16) Acrolein	2.887	56	30936	84.2262	ug/l	89
17) Acrylonitrile	3.569	53	18608m	24.9824	ug/l	
18) Iodomethane	3.115	142	81652	17.7510	ug/l	82
19) Acetone	3.009	43	72323m	116.8069	ug/l	
20) Carbon Disulfide	3.180	76	236688	23.4176	ug/l	100
21) t-Butyl Alcohol	3.437	59	22468	118.9502	ug/l	100
22) n-Hexane	3.810	57	75909m	25.5021	ug/l	
23) Di-isopropyl-ether	3.951	45	206263	27.0516	ug/l	96
24) 1,1-Dichloroethene	2.980	61	139008m	23.8668	ug/l	
25) Methyl Acetate	3.279	43	33348	25.4459	ug/l	100
26) Methyl-t-butyl ether	3.595	73	174935m	23.8224	ug/l	
27) 1,1-Dichloroethane	3.922	63	154685	23.5453	ug/l	99
28) trans-1,2-Dichloroethene	3.598	96	96386	22.6077	ug/l	95
29) Ethyl-t-butyl ether	4.196	59	188940m	23.7486	ug/l	
30) cis-1,2-Dichloroethene	4.305	61	150278	24.8715	ug/l	97
31) Bromochloromethane	4.453	49	66184	26.7102	ug/l	96
32) 2,2-Dichloropropane	4.312	77	140974	26.5485	ug/l	99
33) Ethyl acetate	4.328	43	46675m	23.1532	ug/l	
34) 1,4-Dioxane	5.337	88	37403	1156.2158	ug/l	97
35) 1,1-Dichloropropene	4.697	75	130390	23.4785	ug/l	97
36) Chloroform	4.488	83	178033	25.2173	ug/l	98
38) Cyclohexane	4.649	56	108301	25.1199	ug/l	98
40) 1,2-Dichloroethane	4.820	62	118811m	25.7590	ug/l	
41) 2-Butanone	4.302	43	13605	16.2784	ug/l	96
42) 1,1,1-Trichloroethane	4.611	97	159943	24.3912	ug/l	99
43) Carbon Tetrachloride	4.704	117	142510m	25.8343	ug/l	
44) Vinyl Acetate	3.948	43	212518	28.4515	ug/l	100
45) Bromodichloromethane	5.411	83	128917m	26.9191	ug/l	
46) Methylcyclohexane	5.266	83	116927	24.9336	ug/l	99
47) Dibromomethane	5.340	174	65668	23.3033	ug/l	97
48) 1,2-Dichloropropane	5.276	63	87957	24.2189	ug/l	98
49) Trichloroethene	5.154	130	120255	24.8911	ug/l	99
50) Benzene	4.816	78	377474	23.3859	ug/l	100
51) tert-Amyl methyl ether	4.855	73	188611	24.6892	ug/l	95
53) Iso-propylacetate	4.810	43	100524	21.4420	ug/l	96
54) Methyl methacrylate	5.299	41	47100	21.4624	ug/l	98
55) Dibromochloromethane	6.237	129	93110	22.1821	ug/l	98
56) 2-Chloroethylvinylether	5.540	63	22533	21.7315	ug/l	94
57) cis-1,3-Dichloropropene	5.636	75	134216	21.3873	ug/l	98
58) trans-1,3-Dichloropropene	5.913	75	112515	21.3432	ug/l	100
59) Ethyl methacrylate	5.932	41	53955	21.6360	ug/l	98
60) 1,1,2-Trichloroethane	6.019	97	77893	21.2388	ug/l	94
61) 1,2-Dibromoethane	6.311	107	75845	21.9723	ug/l	98
62) 1,3-Dichloropropane	6.109	76	128203	21.0936	ug/l	99
63) 4-Methyl-2-Pentanone	5.701	43	44453	23.0225	ug/l	99
64) 2-Hexanone	6.119	43	31350	23.8895	ug/l	95
65) Tetrachloroethene	6.112	164	92126	19.4625	ug/l	100
67) Toluene	5.819	92	252749	21.7243	ug/l	95

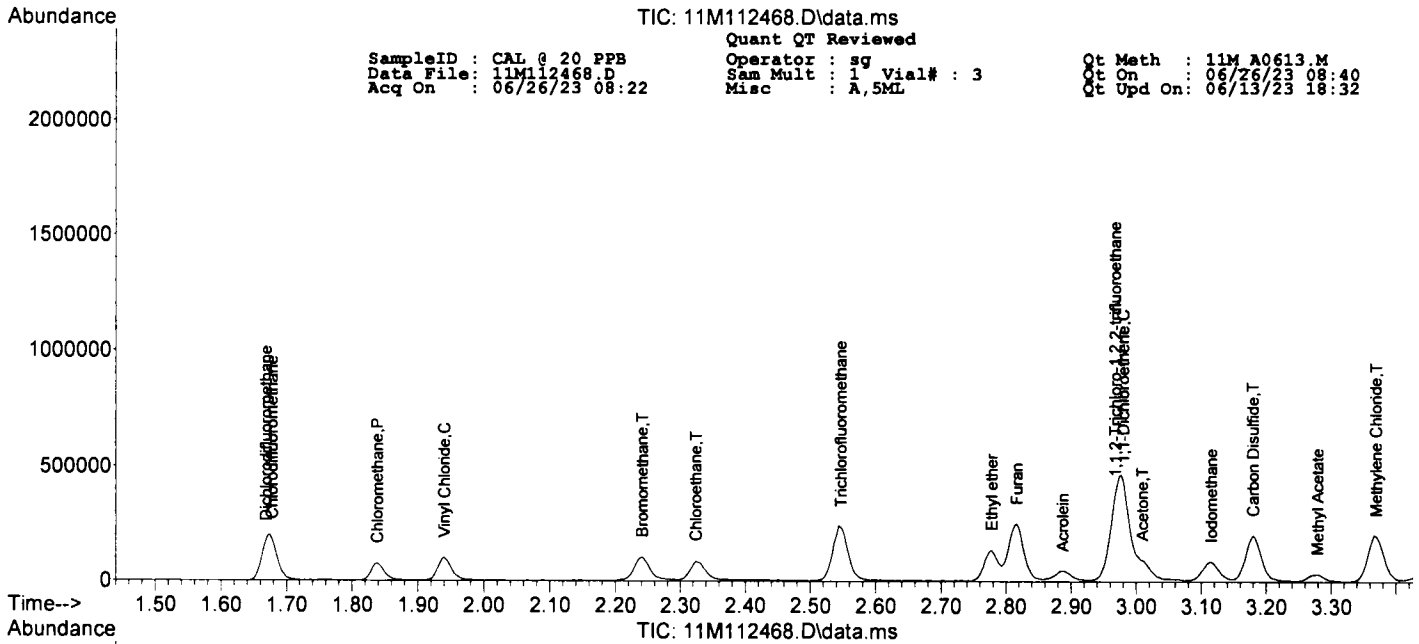
Quantitation Report (QT Reviewed)

SampleID : CAL @ 20 PPB Operator : sg Qt Meth : 11M_A0613.M
Data File: 11M112468.D Sam Mult : 1 Vial# : 3 Qt On : 06/26/23 08:40
Acq On : 06/26/23 08:22 Misc : A,5ML Qt Upd On: 06/13/23 18:32

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-26-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,1,1,2-Tetrachloroethane	6.591	133	94568	20.8883	ug/l	94
69) Chlorobenzene	6.559	112	275953	20.2527	ug/l	99
71) n-Butyl acrylate	6.794	55	100803	19.7464	ug/l	97
72) n-Amyl acetate	6.910	43	89403	21.2312	ug/l	98
73) Bromoform	7.003	173	57655	20.8311	ug/l	98
74) Ethylbenzene	6.601	106	126368	17.7421	ug/l	95
75) 1,1,2,2-Tetrachloroethane	7.212	83	88580	17.0288	ug/l	100
77) Styrene	6.877	104	289087	20.0121	ug/l	95
78) m&p-Xylenes	6.655	106	357807	39.5164	ug/l	95
79) o-Xylene	6.874	106	176114	19.5161	ug/l	100
80) trans-1,4-Dichloro-2-b...	7.237	53	31170	20.9274	ug/l	76
81) 1,3-Dichlorobenzene	7.778	146	208438	20.5980	ug/l	99
82) 1,4-Dichlorobenzene	7.826	146	212120	19.4429	ug/l	98
83) 1,2-Dichlorobenzene	8.048	146	186798	20.6744	ug/l	99
84) Isopropylbenzene	7.064	105	425080	20.9188	ug/l	99
85) Cyclohexanone	7.141	55	15852	114.9913	ug/l	98
86) Camphene	7.237	93	102066	18.5731	ug/l	98
87) 1,2,3-Trichloropropane	7.250	75	102780	19.6239	ug/l	99
88) 2-Chlorotoluene	7.360	91	258976	19.9344	ug/l	98
89) p-Ethyltoluene	7.344	105	414764	19.5309	ug/l	95
90) 4-Chlorotoluene	7.414	91	264291	20.6198	ug/l	99
91) n-Propylbenzene	7.289	91	480413	19.9534	ug/l	99
92) Bromobenzene	7.263	77	228477	18.9794	ug/l	95
93) 1,3,5-Trimethylbenzene	7.372	105	343781	20.8767	ug/l	96
94) Butyl methacrylate	7.376	41	83527	22.3227	ug/l	95
95) t-Butylbenzene	7.565	119	337183	21.4190	ug/l	99
96) 1,2,4-Trimethylbenzene	7.588	105	354450	22.1766	ug/l	99
97) sec-Butylbenzene	7.688	105	378451	22.1975	ug/l	99
98) 4-Isopropyltoluene	7.758	119	335974	21.2036	ug/l	99
99) n-Butylbenzene	7.993	91	335676	22.6352	ug/l	100
100) p-Diethylbenzene	7.977	119	176186	21.0706	ug/l	95
101) 1,2,4,5-Tetramethylben...	8.437	119	208065	19.8903	ug/l	100
102) 1,2-Dibromo-3-Chloropr...	8.495	157	14414	20.9305	ug/l	96
103) Camphor	8.929	95	41375	231.4896	ug/l	99
104) Hexachlorobutadiene	9.067	225	40413	18.8404	ug/l	97
105) 1,2,4-Trichlorobenzene	8.987	180	70023	19.1872	ug/l	99
106) 1,2,3-Trichlorobenzene	9.286	180	40480	16.9268	ug/l	98
107) Naphthalene	9.144	128	114485	21.0647	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
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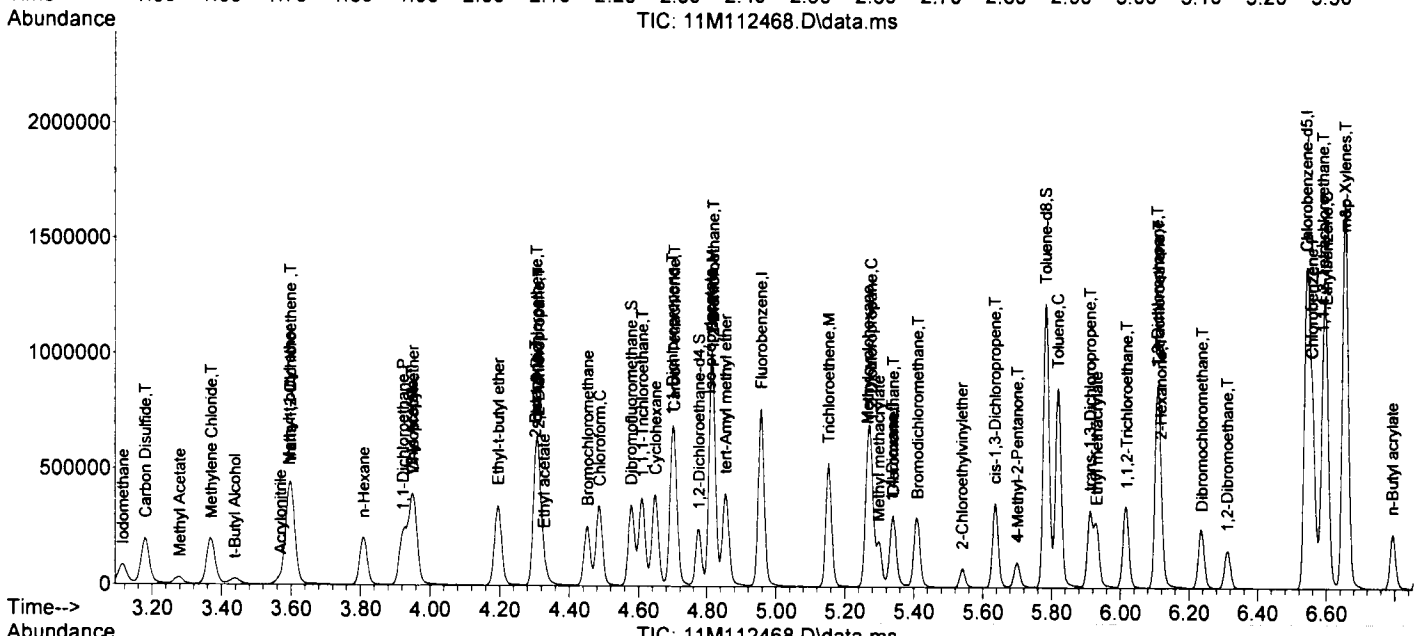
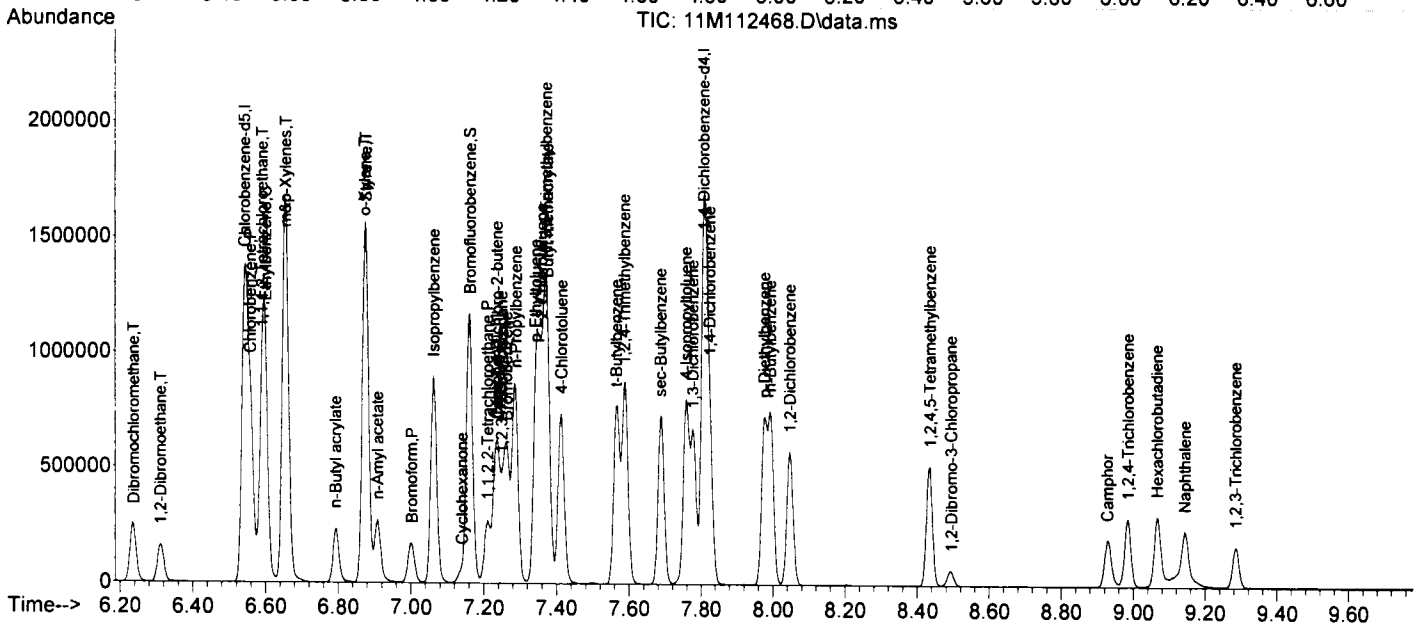
Quant QT Reviewed
SampleID : CAL @ 20 PPB
Data File: 11M112468.D
Acq On : 06/26/23 08:22
Operator : sg
Sam Mult : 1
Vial# : 3
Misc : A,5ML
Qt Meth : 11M_A0613.M
Qt On : 06/26/23 08:40
Qt Upd On: 06/13/23 18:32
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
Time-->


Abundance
TIC: 11M112468.D\data.ms
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
Time-->


Abundance
TIC: 11M112468.D\data.ms
Dibromochloromethane,T
1,2-Dibromoethane,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
4-Chlorotoluene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

GC/MS Volatile Data
Raw QC Data

Form 5

Tune Name: BFB TUNE **Data File:** 11M111784.
Instrument: GCMS 11 **Analysis Date:** 06/13/23 01:10
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.144 to 7.151 min

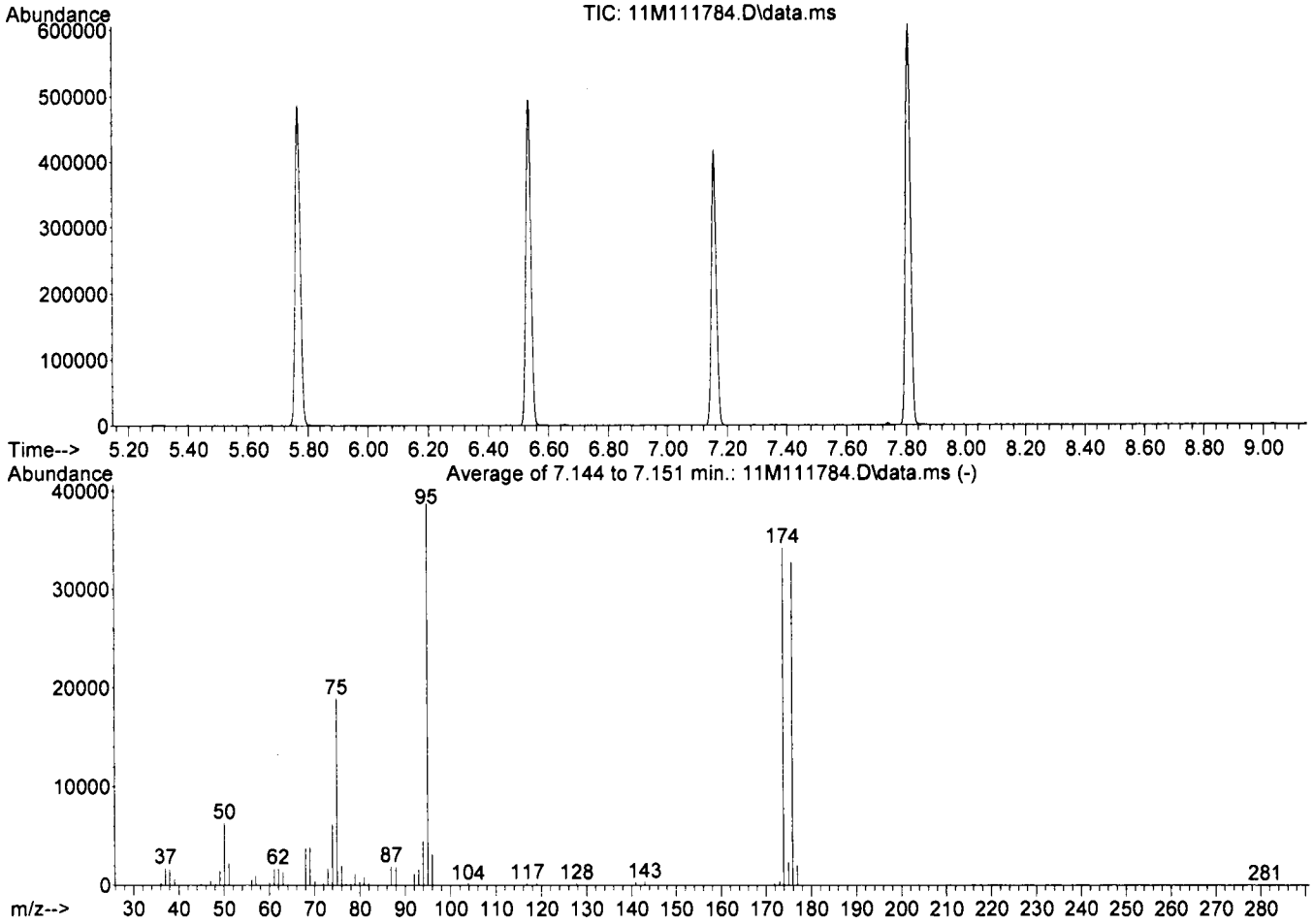
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	16.4	6336	PASS
75	95	30	60	48.9	18918	PASS
95	95	100	100	100.0	38652	PASS
96	95	5	9	8.1	3138	PASS
173	174	0.00	2	1.1	361	PASS
174	95	50	100	88.3	34140	PASS
175	174	5	9	6.8	2330	PASS
176	174	95	101	95.6	32642	PASS
177	176	5	9	6.1	2003	PASS

Data File	Sample Number	Analysis Date:
11M111787.D	CAL @ 0.5 PPB	06/13/23 02:08
11M111788.D	CAL @ 1 PPB	06/13/23 02:27
11M111789.D	CAL @ 5 PPB	06/13/23 02:45
11M111790.D	CAL @10 PPB	06/13/23 03:04
11M111792.D	CAL @ 20PPB	06/13/23 03:42
11M111794.D	CAL @ 50 PPB	06/13/23 04:20
11M111796.D	CAL @ 100 PPB	06/13/23 04:57
11M111799.D	CAL @ 250 PPB	06/13/23 05:54
11M111803.D	CAL @ 500 PPB	06/13/23 07:10
11M111809.D	ICV	06/13/23 09:03
11M111811.D	BLK	06/13/23 09:41

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-13-23\
Data File : 11M111784.D
Acq On : 13 Jun 2023 1:10
Operator : WP
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GCMSDATA\2023\GCMS_11\MethodQt\11M_A1202.M
Title : @GCMS_11,ug,624,8260
Last Update : Thu Aug 18 19:48:36 2022



Spectrum Information: Average of 7.144 to 7.151 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.4	6336	PASS
75	95	30	60	48.9	18918	PASS
95	95	100	100	100.0	38652	PASS
96	95	5	9	8.1	3138	PASS
173	174	0.00	2	1.1	361	PASS
174	95	50	100	88.3	34140	PASS
175	174	5	9	6.8	2330	PASS
176	174	95	101	95.6	32642	PASS
177	176	5	9	6.1	2003	PASS

Form 5

Tune Name: BFB TUNE **Data File:** 11M112466.
Instrument: GCMS 11 **Analysis Date:** 06/26/23 07:27
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.154 to 7.170 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	17.5	27508	PASS
75	95	30	60	50.0	78743	PASS
95	95	100	100	100.0	157372	PASS
96	95	5	9	6.3	9992	PASS
173	174	0.00	2	0.7	966	PASS
174	95	50	100	91.9	144551	PASS
175	174	5	9	7.4	10698	PASS
176	174	95	101	97.6	141104	PASS
177	176	5	9	6.5	9190	PASS

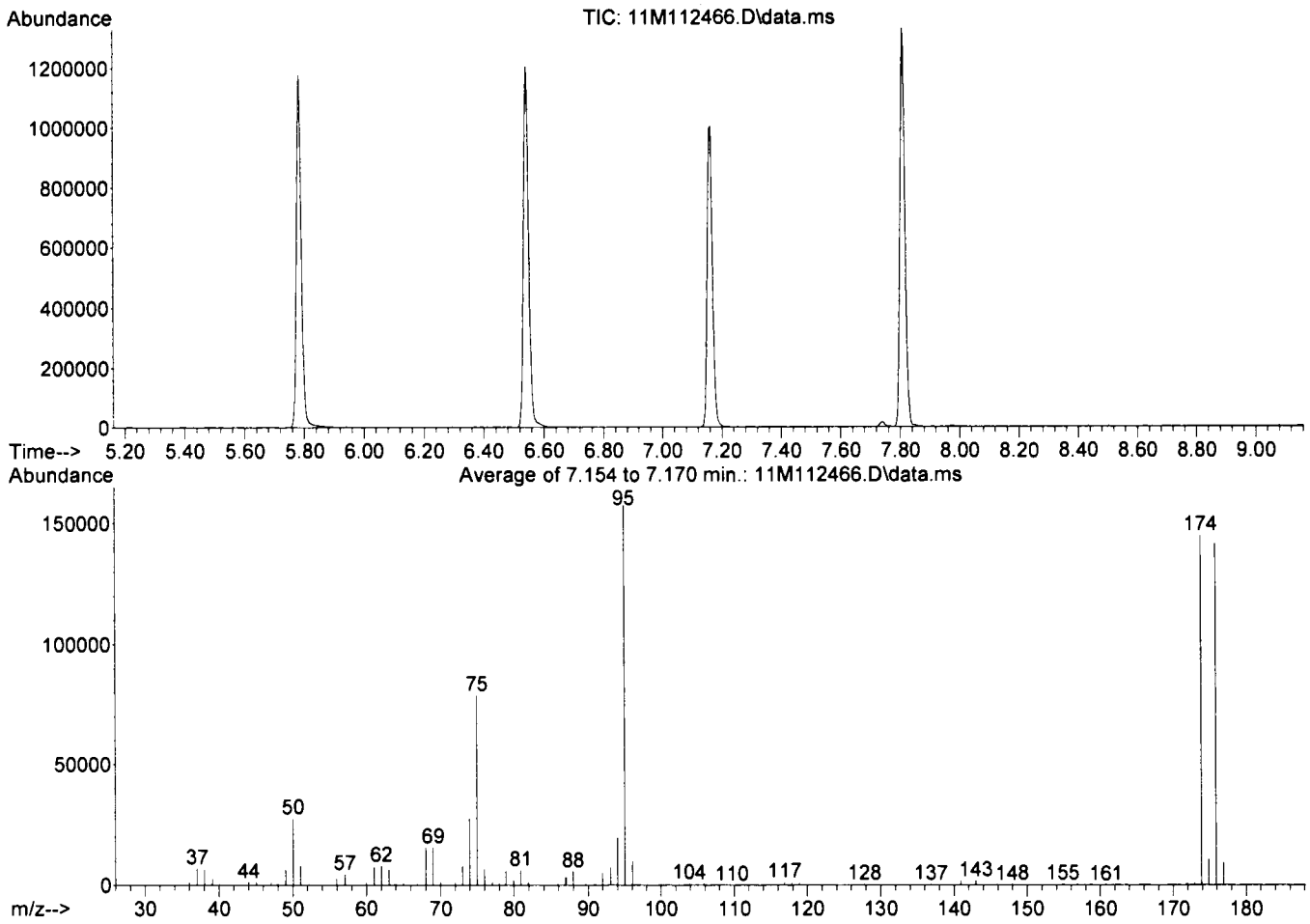
Data File	Sample Number	Analysis Date:
11M112468.D	CAL @ 20 PPB	06/26/23 08:22
11M112471.D	BLK-DI	06/26/23 09:18
11M112472.D	DAILY BLANK	06/26/23 09:37
11M112473.D	DAILY BLANK	06/26/23 09:56
11M112474.D	HCL	06/26/23 10:15
11M112475.D	AD38747-013(80uL	06/26/23 10:33
11M112479.D	AD38747-013(400u	06/26/23 11:50
11M112480.D	MBS110097	06/26/23 12:09
11M112481.D	MBS110098	06/26/23 12:28
11M112482.D	38798-003(50X)	06/26/23 12:47
11M112483.D	AD38732-005(5X)	06/26/23 13:06
11M112484.D	38733-008(50X)	06/26/23 13:25
11M112485.D	AD38732-006	06/26/23 13:44
11M112486.D	AD38751-008	06/26/23 14:03
11M112487.D	AD38798-007	06/26/23 14:22
11M112488.D	AD38798-003	06/26/23 14:41
11M112489.D	AD38798-001	06/26/23 15:00
11M112490.D	AD38798-002	06/26/23 15:19
11M112491.D	AD38798-006	06/26/23 15:38
11M112492.D	AD38798-004(MS	06/26/23 15:57
11M112493.D	AD38798-005(MSD	06/26/23 16:16
11M112494.D	AD38753-002(80uL	06/26/23 16:35
11M112495.D	AD38751-008(MS)	06/26/23 16:54
11M112496.D	AD38751-008(MSD	06/26/23 17:13
11M112497.D	AD38790-004	06/26/23 17:32
11M112498.D	AD38790-003	06/26/23 17:51
11M112499.D	AD38790-005	06/26/23 18:10
11M112500.D	AD38790-006	06/26/23 18:29
11M112501.D	AD38790-001	06/26/23 18:47
11M112502.D	AD38790-002	06/26/23 19:06
11M112503.D	BLK	06/26/23 19:25

CLPBFB

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-26-23\
Data File : 11M112466.D
Acq On : 26 Jun 2023 7:27
Operator : sg
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2023\GCMS_11\MethodQt\11M_A0613.M
Title : @GCMS_11,ug,624,8260
Last Update : Tue Jun 13 17:55:37 2023



Spectrum Information: Average of 7.154 to 7.170 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.5	27508	PASS
75	95	30	60	50.0	78743	PASS
95	95	100	100	100.0	157372	PASS
96	95	5	9	6.3	9992	PASS
173	174	0.00	2	0.7	966	PASS
174	95	50	100	91.9	144551	PASS
175	174	5	9	7.4	10698	PASS
176	174	95	101	97.6	141104	PASS
177	176	5	9	6.5	9190	PASS

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 11M112473.D
Analysis Date: 06/26/23 09:56
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.66	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U

Worksheet #: 697497

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

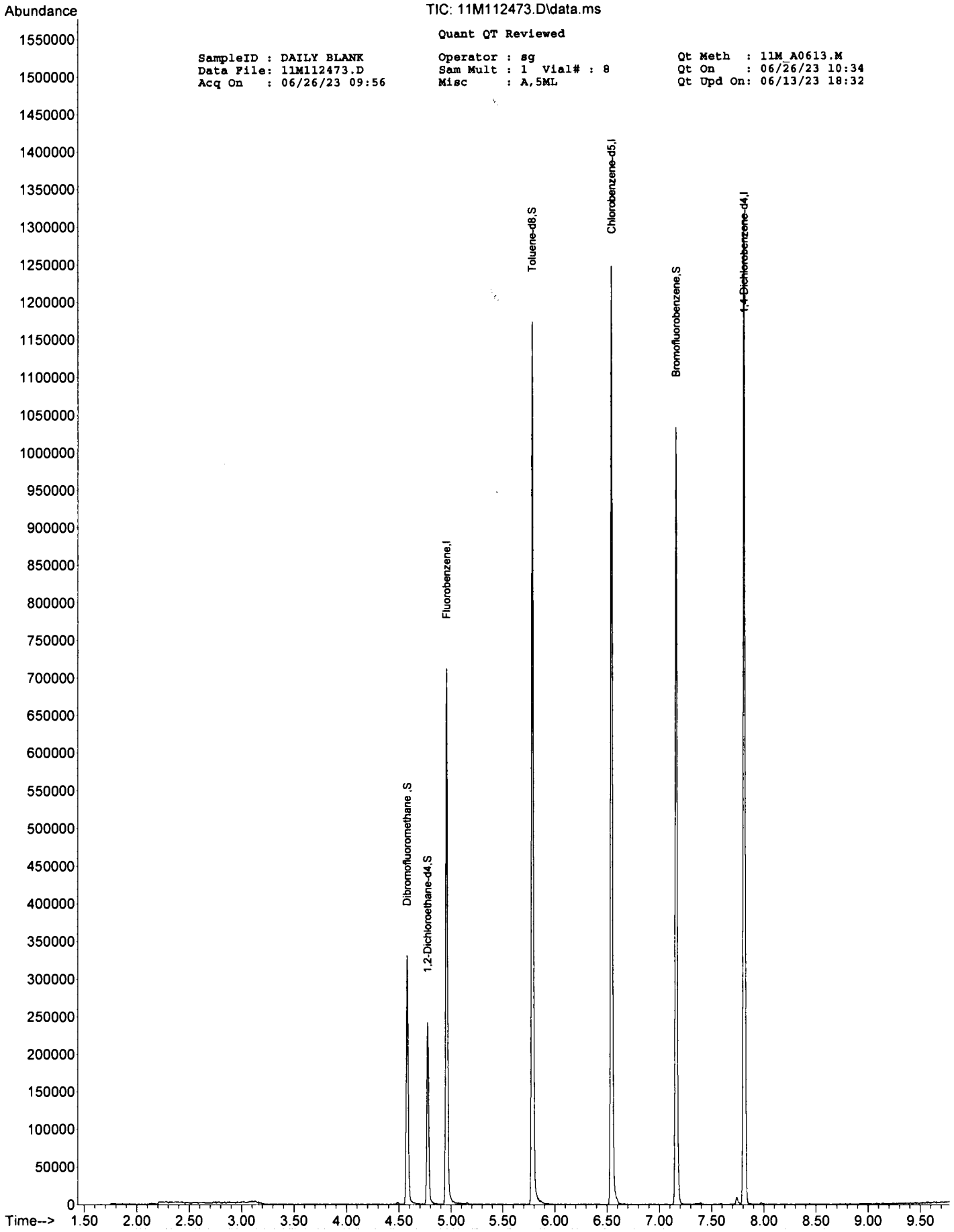
Quantitation Report (QT Reviewed)

SampleID : DAILY BLANK Operator : sg Qt Meth : 11M_A0613.M
Data File: 11M112473.D Sam Mult : 1 Vial# : 8 Qt On : 06/26/23 10:34
Acq On : 06/26/23 09:56 Misc : A,5ML Qt Upd On: 06/13/23 18:32

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-26-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.958	96	428168	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.546	117	522806	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.813	152	274091	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.579	111	131984	31.88	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.27%			
39) 1,2-Dichloroethane-d4	4.775	67	55779	32.81	ug/l	0.00
Spiked Amount 30.000			Recovery = 109.37%			
66) Toluene-d8	5.784	98	543181	27.88	ug/l	0.00
Spiked Amount 30.000			Recovery = 92.93%			
76) Bromofluorobenzene	7.164	174	226085	31.06	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.53%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 11M112473.D\data.ms
Quant QT Reviewed
SampleID : DAILY BLANK
Data File: 11M112473.D
Acq On : 06/26/23 09:56
Operator : sg
Sam Mult : 1 Vial# : 8
Misc : A,5ML
Qt Meth : 11M_A0613.M
Qt On : 06/26/23 10:34
Qt Upd On: 06/13/23 18:32
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form3
Recovery Data Laboratory Limits
QC Batch: MBS110098

	Data File	Sample ID:	Analysis Date
Spike or Dup:	11M112481.D	MBS110098	6/26/2023 12:28:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	27.798	0	20	139	16	181
Dichlorodifluoromethane	1	19.7726	0	20	99	10	202
Chloromethane	1	17.957	0	20	90	10	182
Bromomethane	1	21.6535	0	20	108	10	172
Vinyl Chloride	1	19.2876	0	20	96	26	176
Chloroethane	1	20.2981	0	20	101	28	165
Trichlorofluoromethane	1	24.2719	0	20	121	18	178
Ethyl ether	1	23.3612	0	20	117	38	155
Furan	1	24.5194	0	20	123	31	160
1,1,2-Trichloro-1,2,2-trifluoroethane	1	24.5573	0	20	123	32	178
Methylene Chloride	1	22.2002	0	20	111	10	225
Acrolein	1	91.1647	0	100	91	10	183
Acrylonitrile	1	25.6338	0	20	128	40	164
Iodomethane	1	22.2293	0	20	111	10	191
Acetone	1	137.2677	0	100	137	10	237
Carbon Disulfide	1	20.6943	0	20	103	10	194
t-Butyl Alcohol	1	129.8676	0	100	130	21	185
n-Hexane	1	24.9743	0	20	125	43	179
Di-isopropyl-ether	1	26.3667	0	20	132	47	159
1,1-Dichloroethene	1	24.7637	0	20	124	42	172
Methyl Acetate	1	27.1148	0	20	136	10	192
Methyl-t-butyl ether	1	25.5022	0	20	128	43	154
1,1-Dichloroethane	1	22.7514	0	20	114	48	160
trans-1,2-Dichloroethene	1	22.0487	0	20	110	37	171
Ethyl-t-butyl ether	1	24.2538	0	20	121	53	149
cis-1,2-Dichloroethene	1	23.8186	0	20	119	45	161
Bromochloromethane	1	24.9734	0	20	125	42	170
2,2-Dichloropropane	1	24.9194	0	20	125	33	173
Ethyl acetate	1	25.3537	0	20	127	38	156
1,4-Dioxane	1	1266.52	0	1000	127	18	186
1,1-Dichloropropene	1	22.3441	0	20	112	51	157
Chloroform	1	23.7989	0	20	119	47	157
Cyclohexane	1	24.2711	0	20	121	41	175
1,2-Dichloroethane	1	25.9257	0	20	130	43	154
2-Butanone	1	23.686	0	20	118	20	188
1,1,1-Trichloroethane	1	23.283	0	20	116	49	155
Carbon Tetrachloride	1	24.6054	0	20	123	47	159
Vinyl Acetate	1	28.2333	0	20	141	31	160
Bromodichloromethane	1	25.4753	0	20	127	48	152
Methylcyclohexane	1	24.1224	0	20	121	47	167
Dibromomethane	1	22.8134	0	20	114	47	153
1,2-Dichloropropane	1	23.3067	0	20	117	53	153
Trichloroethene	1	23.5765	0	20	118	45	165
Benzene	1	22.6331	0	20	113	41	163
tert-Amyl methyl ether	1	24.97	0	20	125	51	146
Iso-propylacetate	1	20.5747	0	20	103	37	153
Methyl methacrylate	1	20.7059	0	20	104	40	160
Dibromochloromethane	1	20.549	0	20	103	50	144
2-Chloroethylvinylether	1	22.3104	0	20	112	10	201
cis-1,3-Dichloropropene	1	19.1864	0	20	96	49	146
trans-1,3-Dichloropropene	1	20.2138	0	20	101	48	144
Ethyl methacrylate	1	21.6394	0	20	108	38	160
1,1,2-Trichloroethane	1	20.2538	0	20	101	52	146
1,2-Dibromoethane	1	21.3433	0	20	107	55	140
1,3-Dichloropropane	1	20.2419	0	20	101	54	142
4-Methyl-2-Pentanone	1	22.6912	0	20	113	41	158
2-Hexanone	1	23.5974	0	20	118	39	163
Tetrachloroethene	1	18.4155	0	20	92	48	162
Toluene	1	20.1774	0	20	101	49	153
1,1,1,2-Tetrachloroethane	1	20.8266	0	20	104	51	140
Chlorobenzene	1	19.8508	0	20	99	43	155

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS110098

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	19.6749	0	20	98	21	181
n-Amyl acetate	1	20.4241	0	20	102	20	182
Bromoform	1	19.3189	0	20	97	47	137
Ethylbenzene	1	16.9366	0	20	85	41	153
1,1,2,2-Tetrachloroethane	1	15.8485	0	20	79	36	152
Styrene	1	18.803	0	20	94	34	170
m&p-Xylenes	1	36.6896	0	40	92	16	184
o-Xylene	1	18.3274	0	20	92	31	166
trans-1,4-Dichloro-2-butene	1	18.4864	0	20	92	10	154
1,3-Dichlorobenzene	1	19.412	0	20	97	46	147
1,4-Dichlorobenzene	1	18.6859	0	20	93	37	156
1,2-Dichlorobenzene	1	19.8768	0	20	99	42	150
Isopropylbenzene	1	19.988	0	20	100	32	174
Cyclohexanone	1	113.4012	0	100	113	10	254
Camphene	1	17.1098	0	20	86	10	172
1,2,3-Trichloropropane	1	18.0279	0	20	90	20	164
2-Chlorotoluene	1	18.3781	0	20	92	43	153
p-Ethyltoluene	1	18.1075	0	20	91	36	164
4-Chlorotoluene	1	18.9634	0	20	95	34	160
n-Propylbenzene	1	18.3388	0	20	92	30	176
Bromobenzene	1	16.8579	0	20	84	44	142
1,3,5-Trimethylbenzene	1	19.4553	0	20	97	37	165
Butyl methacrylate	1	20.9748	0	20	105	30	169
t-Butylbenzene	1	20.5966	0	20	103	48	162
1,2,4-Trimethylbenzene	1	20.9134	0	20	105	38	162
sec-Butylbenzene	1	20.5633	0	20	103	42	164
4-Isopropyltoluene	1	19.6985	0	20	98	40	162
n-Butylbenzene	1	20.512	0	20	103	30	176
p-Diethylbenzene	1	20.3648	0	20	102	23	179
1,2,4,5-Tetramethylbenzene	1	20.6104	0	20	103	18	177
1,2-Dibromo-3-Chloropropane	1	21.6966	0	20	108	32	154
Camphor	1	277.2303	0	200	139	10	202
Hexachlorobutadiene	1	18.1018	0	20	91	23	181
1,2,4-Trichlorobenzene	1	19.6621	0	20	98	28	169
1,2,3-Trichlorobenzene	1	20.326	0	20	102	30	172
Naphthalene	1	26.3004	0	20	132	13	191

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Quantitation Report (QT Reviewed)

SampleID : MBS Operator : sg Qt Meth : 11M_A0613.M
Data File: 11M112481.D Sam Mult : 1 Vial# : 16 Qt On : 06/26/23 12:54
Acq On : 06/26/23 12:28 Misc : A,5ML Qt Upd On: 06/13/23 18:32

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-26-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.958	96	474496	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.543	117	614059	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.813	152	407031	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.578	111	142312	31.02	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.40%			
39) 1,2-Dichloroethane-d4	4.775	67	59622	31.65	ug/l	0.00
Spiked Amount 30.000			Recovery = 105.50%			
66) Toluene-d8	5.784	98	624461	27.29	ug/l	0.00
Spiked Amount 30.000			Recovery = 90.97%			
76) Bromofluorobenzene	7.164	174	314229	29.07	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.90%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.675	51	148328m	27.7980	ug/l	
6) Dichlorodifluoromethane	1.665	85	74692	19.7726	ug/l	99
7) Chloromethane	1.838	50	72369	17.9570	ug/l	99
8) Bromomethane	2.241	94	65751	21.6535	ug/l	100
9) Vinyl Chloride	1.940	62	94828	19.2876	ug/l	94
10) Chloroethane	2.325	64	67078	20.2981	ug/l	97
11) Trichlorofluoromethane	2.543	101	180053	24.2719	ug/l	98
12) Ethyl ether	2.775	59	70924	23.3612	ug/l	98
13) Furan	2.816	39	145217	24.5194	ug/l	99
14) 1,1,2-Trichloro-1,2,2-...	2.968	101	90977	24.5573	ug/l	97
15) Methylene Chloride	3.369	84	94822	22.2002	ug/l	94
16) Acrolein	2.887	56	35252	91.1647	ug/l	97
17) Acrylonitrile	3.566	53	20101	25.6338	ug/l	95
18) Iodomethane	3.112	142	108465	22.2293	ug/l	95
19) Acetone	3.009	43	89478	137.2677	ug/l	88
20) Carbon Disulfide	3.177	76	220203	20.6943	ug/l	100
21) t-Butyl Alcohol	3.434	59	25825	129.8676	ug/l	100
22) n-Hexane	3.810	57	78262	24.9743	ug/l	97
23) Di-isopropyl-ether	3.951	45	211653	26.3667	ug/l	99
24) 1,1-Dichloroethene	2.977	61	151845	24.7637	ug/l	97
25) Methyl Acetate	3.276	43	37411	27.1148	ug/l	100
26) Methyl-t-butyl ether	3.595	73	197155	25.5022	ug/l	98
27) 1,1-Dichloroethane	3.923	63	157359	22.7514	ug/l	98
28) trans-1,2-Dichloroethene	3.598	96	98965	22.0487	ug/l	99
29) Ethyl-t-butyl ether	4.196	59	203145	24.2538	ug/l	98
30) cis-1,2-Dichloroethene	4.305	61	151513	23.8186	ug/l	96
31) Bromochloromethane	4.450	49	65147	24.9734	ug/l	95
32) 2,2-Dichloropropane	4.312	77	139308	24.9194	ug/l	99
33) Ethyl acetate	4.328	43	53809	25.3537	ug/l	99
34) 1,4-Dioxane	5.337	88	43134	1266.5199	ug/l	92
35) 1,1-Dichloropropene	4.697	75	130640	22.3441	ug/l	97
36) Chloroform	4.488	83	176888	23.7989	ug/l	96
38) Cyclohexane	4.649	56	110165	24.2711	ug/l	99
40) 1,2-Dichloroethane	4.820	62	125892	25.9257	ug/l	99
41) 2-Butanone	4.305	43	20841	23.6860	ug/l	97
42) 1,1,1-Trichloroethane	4.611	97	160735	23.2830	ug/l	96
43) Carbon Tetrachloride	4.704	117	142896	24.6054	ug/l	97
44) Vinyl Acetate	3.945	43	222020	28.2333	ug/l	100
45) Bromodichloromethane	5.411	83	128443	25.4753	ug/l	98
46) Methylcyclohexane	5.267	83	119094	24.1224	ug/l	100
47) Dibromomethane	5.344	174	67681	22.8134	ug/l	97
48) 1,2-Dichloropropane	5.276	63	89112	23.3067	ug/l	97
49) Trichloroethene	5.154	130	119916	23.5765	ug/l	98
50) Benzene	4.816	78	384607	22.6331	ug/l	100
51) tert-Amyl methyl ether	4.855	73	200825	24.9700	ug/l	97
53) Iso-propylacetate	4.813	43	110380	20.5747	ug/l	98
54) Methyl methacrylate	5.299	41	51998	20.7059	ug/l	100
55) Dibromochloromethane	6.234	129	98704	20.5490	ug/l	95
56) 2-Chloroethylvinylether	5.543	63	26472	22.3104	ug/l	98
57) cis-1,3-Dichloropropene	5.636	75	137782	19.1864	ug/l	99
58) trans-1,3-Dichloropropene	5.913	75	121941	20.2138	ug/l	98
59) Ethyl methacrylate	5.932	41	61752	21.6394	ug/l	98
60) 1,1,2-Trichloroethane	6.016	97	85001	20.2538	ug/l	98
61) 1,2-Dibromoethane	6.311	107	84307	21.3433	ug/l	94
62) 1,3-Dichloropropane	6.109	76	140783	20.2419	ug/l	97
63) 4-Methyl-2-Pentanone	5.701	43	50137	22.6912	ug/l	96
64) 2-Hexanone	6.119	43	35436	23.5974	ug/l	98
65) Tetrachloroethene	6.112	164	99751	18.4155	ug/l	99
67) Toluene	5.823	92	268633	20.1774	ug/l	94

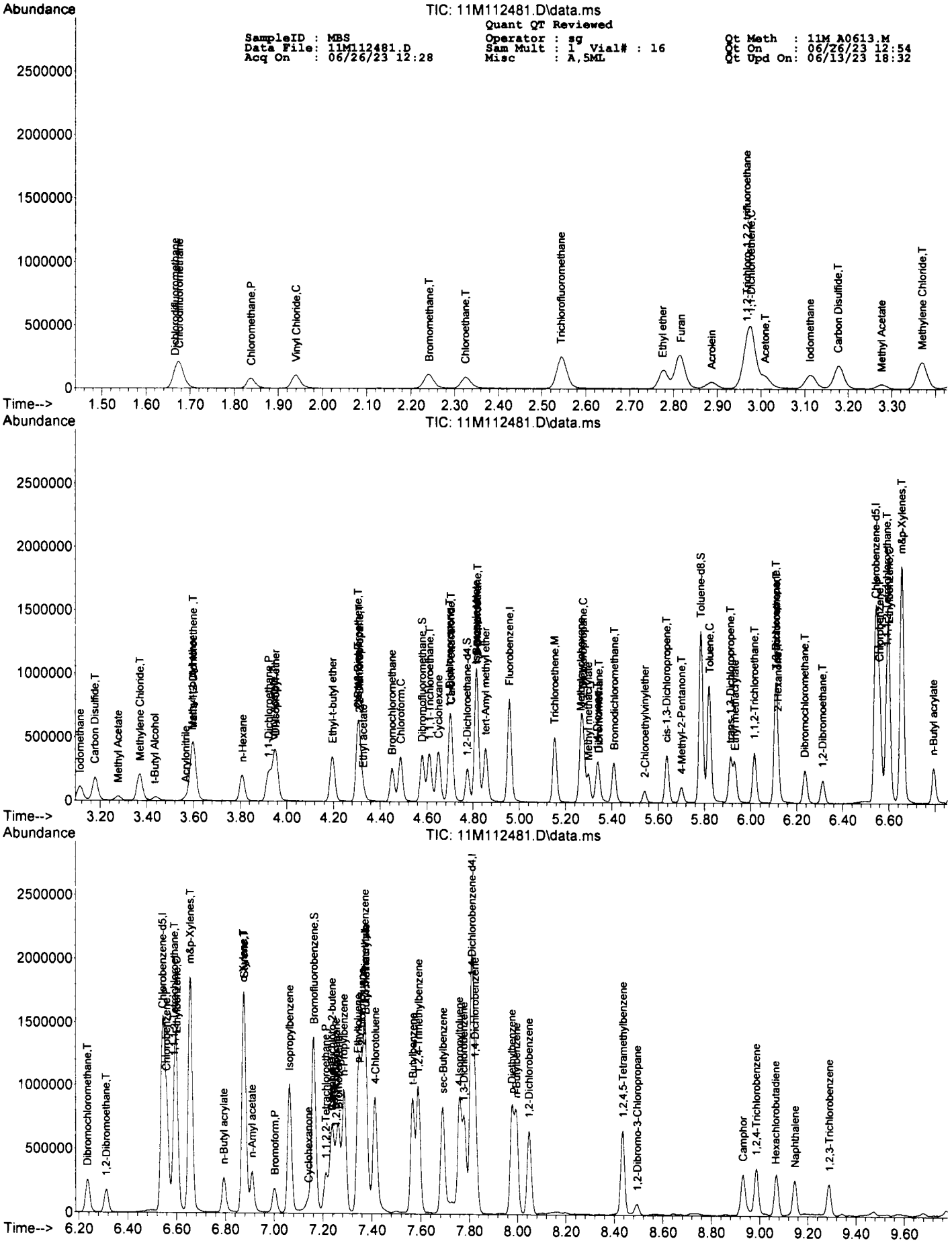
Quantitation Report (QT Reviewed)

SampleID : MBS Operator : sg Qt Meth : 11M_A0613.M
Data File: 11M112481.D Sam Mult : 1 Vial# : 16 Qt On : 06/26/23 12:54
Acq On : 06/26/23 12:28 Misc : A,5ML Qt Upd On: 06/13/23 18:32

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-26-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.591	133	107897	20.8266	ug/l	100
69)	Chlorobenzene	6.559	112	309514	19.8508	ug/l	98
71)	n-Butyl acrylate	6.794	55	122933	19.6749	ug/l	98
72)	n-Amyl acetate	6.910	43	105266	20.4241	ug/l	96
73)	Bromoform	7.003	173	65445	19.3189	ug/l	96
74)	Ethylbenzene	6.601	106	147648	16.9366	ug/l	93
75)	1,1,2,2-Tetrachloroethane	7.212	83	101123	15.8485	ug/l	94
77)	Styrene	6.877	104	332454	18.8030	ug/l	99
78)	m&p-Xylenes	6.656	106	406615	36.6896	ug/l	98
79)	o-Xylene	6.874	106	202428	18.3274	ug/l	97
80)	trans-1,4-Dichloro-2-b...	7.237	53	33701	18.4864	ug/l	78
81)	1,3-Dichlorobenzene	7.778	146	240432	19.4120	ug/l	99
82)	1,4-Dichlorobenzene	7.826	146	249519	18.6859	ug/l	99
83)	1,2-Dichlorobenzene	8.048	146	219814	19.8768	ug/l	99
84)	Isopropylbenzene	7.064	105	497132	19.9880	ug/l	99
85)	Cyclohexanone	7.141	55	19134	113.4012	ug/l	95
86)	Camphene	7.237	93	115083	17.1098	ug/l	99
87)	1,2,3-Trichloropropane	7.254	75	115568	18.0279	ug/l	99
88)	2-Chlorotoluene	7.360	91	292231	18.3781	ug/l	96
89)	p-Ethyltoluene	7.344	105	470659	18.1075	ug/l	95
90)	4-Chlorotoluene	7.414	91	297498	18.9634	ug/l	99
91)	n-Propylbenzene	7.286	91	540429	18.3388	ug/l	98
92)	Bromobenzene	7.263	77	248388	16.8579	ug/l	97
93)	1,3,5-Trimethylbenzene	7.373	105	392126	19.4553	ug/l	96
94)	Butyl methacrylate	7.376	41	96061	20.9748	ug/l	98
95)	t-Butylbenzene	7.569	119	396853	20.5966	ug/l	97
96)	1,2,4-Trimethylbenzene	7.591	105	409122	20.9134	ug/l	97
97)	sec-Butylbenzene	7.691	105	429108	20.5633	ug/l	100
98)	4-Isopropyltoluene	7.758	119	382032	19.6985	ug/l	99
99)	n-Butylbenzene	7.996	91	372318	20.5120	ug/l	99
100)	p-Diethylbenzene	7.977	119	208422	20.3648	ug/l	99
101)	1,2,4,5-Tetramethylben...	8.437	119	263884	20.6104	ug/l	97
102)	1,2-Dibromo-3-Chloropr...	8.495	157	18288	21.6966	ug/l	95
103)	Camphor	8.932	95	60648	277.2303	ug/l	99
104)	Hexachlorobutadiene	9.067	225	47525	18.1018	ug/l	98
105)	1,2,4-Trichlorobenzene	8.987	180	87827	19.6621	ug/l	96
106)	1,2,3-Trichlorobenzene	9.289	180	59496	20.3260	ug/l	97
107)	Naphthalene	9.147	128	175064	26.3004	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
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Quant QT Reviewed
SampleID : MBS
Data File: 11M112481.D
Acq On : 06/26/23 12:28
Operator : sg
Sam Mult : 1 Vial# : 16
Misc : A,5ML
Qt Meth : 11M_A0613.M
Qt On : 06/26/23 12:54
Qt Upd On: 06/13/23 18:32
Dichlorodifluoromethane
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
Time-->
Abundance
TIC: 11M112481.D\data.ms
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
n-Butyl acrylate
m&p-Xylenes,T
Time-->
Abundance
TIC: 11M112481.D\data.ms
Dibromochloromethane,T
1,2-Dibromoethane,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
4-Chlorotoluene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
n-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Form3
Recovery Data Laboratory Limits
QC Batch: MBS110098

	Data File	Sample ID:	Analysis Date
Spike or Dup:	11M112492.D	AD38798-004(MS:AD38798-003	6/26/2023 3:57:00 PM
Non Spike(If applicable):	11M112488.D	AD38798-003	6/26/2023 2:41:00 PM
Inst Blank(If applicable):			

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	24.8889	0	20	124	16	181
Dichlorodifluoromethane	1	2.0232	0	20	10	10	202
Chloromethane	1	5.0599	0	20	25	10	182
Bromomethane	1	11.6346	0	20	58	10	172
Vinyl Chloride	1	9.0673	0	20	45	26	176
Chloroethane	1	13.9806	0	20	70	28	165
Trichlorofluoromethane	1	18.9104	0	20	95	18	178
Ethyl ether	1	19.1382	0	20	96	38	155
Furan	1	21.4363	0	20	107	31	160
1,1,2-Trichloro-1,2,2-trifluoroethane	1	22.6557	0	20	113	32	178
Methylene Chloride	1	9.7599	0	20	49	10	225
Acrolein	1	87.7588	0	100	88	10	183
Acrylonitrile	1	23.5071	0	20	118	40	164
Iodomethane	1	21.6014	0	20	108	10	191
Acetone	1	119.9636	0	100	120	10	237
Carbon Disulfide	1	26.1253	0	20	131	10	194
t-Butyl Alcohol	1	121.397	0	100	121	21	185
n-Hexane	1	22.2558	0	20	111	43	179
Di-isopropyl-ether	1	26.8689	0	20	134	47	159
1,1-Dichloroethene	1	10.0626	0	20	50	42	172
Methyl Acetate	1	23.6647	0	20	118	10	192
Methyl-t-butyl ether	1	24.286	0	20	121	43	154
1,1-Dichloroethane	1	10.4942	0	20	52	48	160
trans-1,2-Dichloroethene	1	9.7856	0	20	49	37	171
Ethyl-t-butyl ether	1	24.2484	0	20	121	53	149
cis-1,2-Dichloroethene	1	11.706	0	20	59	45	161
Bromochloromethane	1	11.6371	0	20	58	42	170
2,2-Dichloropropane	1	11.0543	0	20	55	33	173
Ethyl acetate	1	22.6423	0	20	113	38	156
1,4-Dioxane	1	1124.429	0	1000	112	18	186
1,1-Dichloropropene	1	10.5826	0	20	53	51	157
Chloroform	1	11.3295	0	20	57	47	157
Cyclohexane	1	24.2629	0	20	121	41	175
1,2-Dichloroethane	1	11.8394	0	20	59	43	154
2-Butanone	1	35.2426	0	20	176	20	188
1,1,1-Trichloroethane	1	10.9476	0	20	55	49	155
Carbon Tetrachloride	1	11.2345	0	20	56	47	159
Vinyl Acetate	1	35.546	0	20	178*	31	160
Bromodichloromethane	1	11.6147	0	20	58	48	152
Methylcyclohexane	1	24.1114	0	20	121	47	167
Dibromomethane	1	10.2109	0	20	51	47	153
1,2-Dichloropropane	1	11.1563	0	20	56	53	153
Trichloroethene	1	11.0639	0	20	55	45	165
Benzene	1	10.6256	0	20	53	41	163
tert-Amyl methyl ether	1	23.8097	0	20	119	51	146
Iso-propylacetate	1	20.7334	0	20	104	37	153
Methyl methacrylate	1	19.8128	0	20	99	40	160
Dibromochloromethane	1	9.0649	0	20	45*	50	144
2-Chloroethylvinylether	1	12.6724	0	20	63	10	201
cis-1,3-Dichloropropene	1	9.129	0	20	46*	49	146
trans-1,3-Dichloropropene	1	9.1379	0	20	46*	48	144
Ethyl methacrylate	1	20.4436	0	20	102	38	160
1,1,2-Trichloroethane	1	9.6243	0	20	48*	52	146
1,2-Dibromoethane	1	10.0172	0	20	50*	55	140
1,3-Dichloropropane	1	9.4939	0	20	47*	54	142
4-Methyl-2-Pentanone	1	35.5742	0	20	178*	41	158
2-Hexanone	1	34.4406	0	20	172*	39	163
Tetrachloroethene	1	8.7663	0	20	44*	48	156
Toluene	1	9.7363	0	20	49	49	153
1,1,1,2-Tetrachloroethane	1	8.8461	0	20	44*	51	140
Chlorobenzene	1	9.5609	0	20	48	43	155

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS110098

Method: 8260D	Matrix: Aqueous		Units: ug/L	QC Type: MS		
Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	21.3323	0	20	107	21	181
n-Amyl acetate	1	22.7523	0	20	114	20	182
Bromoform	**1**	**8.7407**	**0**	**20**	**44***	**47**	**137**
Ethylbenzene	**1**	**8.5848**	**0**	**20**	**43**	**41**	**153**
1,1,2,2-Tetrachloroethane	**1**	**8.0322**	**0**	**20**	**40**	**36**	**152**
Styrene	**1**	**9.5455**	**0**	**20**	**48**	**34**	**170**
m&p-Xylenes	**1**	**19.4807**	**0**	**40**	**49**	**16**	**184**
o-Xylene	**1**	**9.6314**	**0**	**20**	**48**	**31**	**166**
trans-1,4-Dichloro-2-butene	1	19.8794	0	20	99	10	154
1,3-Dichlorobenzene	**1**	**9.3379**	**0**	**20**	**47**	**46**	**147**
1,4-Dichlorobenzene	**1**	**8.848**	**0**	**20**	**44**	**37**	**156**
1,2-Dichlorobenzene	**1**	**9.4136**	**0**	**20**	**47**	**42**	**150**
Isopropylbenzene	**1**	**9.4947**	**0**	**20**	**47**	**32**	**174**
Cyclohexanone	1	65.6246	0	100	66	10	254
Camphene	1	18.0928	0	20	90	10	172
1,2,3-Trichloropropane	1	11.1885	0	20	56	20	164
2-Chlorotoluene	1	10.0565	0	20	50	43	153
p-Ethyltoluene	1	20.354	0	20	102	36	164
4-Chlorotoluene	1	9.8039	0	20	49	34	160
n-Propylbenzene	1	9.54	0	20	48	36	170
Bromobenzene	1	7.6989	0	20	38*	44	142
1,3,5-Trimethylbenzene	1	9.2682	0	20	46	37	165
Butyl methacrylate	1	20.5201	0	20	103	30	169
t-Butylbenzene	1	9.127	0	20	46*	48	152
1,2,4-Trimethylbenzene	1	10.2594	0	20	51	38	162
sec-Butylbenzene	1	10.6984	0	20	53	42	164
4-Isopropyltoluene	1	9.6309	0	20	48	40	162
n-Butylbenzene	1	12.5289	0	20	63	30	176
p-Diethylbenzene	1	21.3674	0	20	107	23	179
1,2,4,5-Tetramethylbenzene	1	21.0374	0	20	105	18	177
1,2-Dibromo-3-Chloropropane	**1**	**9.3459**	**0**	**20**	**47**	**32**	**154**
Camphor	1	228.3727	0	200	114	10	202
Hexachlorobutadiene	1	7.8402	0	20	39	23	181
1,2,4-Trichlorobenzene	**1**	**8.741**	**0**	**20**	**44**	**28**	**169**
1,2,3-Trichlorobenzene	**1**	**8.2517**	**0**	**20**	**41**	**30**	**172**
Naphthalene	1	9.8242	0	20	49	13	191

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS110098

	Data File	Sample ID:	Analysis Date
Spike or Dup:	11M112493.D	AD38798-005(MSD:AD38798-0	6/26/2023 4:16:00 PM
Non Spike(If applicable):	11M112488.D	AD38798-003	6/26/2023 2:41:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	27.8184	0	20	139	16	181
Dichlorodifluoromethane	1	2.3443	0	20	12	10	202
Chloromethane	1	5.7604	0	20	29	10	182
Bromomethane	1	13.7926	0	20	69	10	172
Vinyl Chloride	1	10.0145	0	20	50	26	176
Chloroethane	1	15.5319	0	20	78	28	165
Trichlorofluoromethane	1	21.2137	0	20	106	18	178
Ethyl ether	1	21.6749	0	20	108	38	155
Furan	1	24.328	0	20	122	31	160
1,1,2-Trichloro-1,2,2-trifluoroethane	1	24.8826	0	20	124	32	178
Methylene Chloride	1	10.6076	0	20	53	10	225
Acrolein	1	95.9936	0	100	96	10	183
Acrylonitrile	1	26.9596	0	20	135	40	164
Iodomethane	1	27.9419	0	20	140	10	191
Acetone	1	127.347	0	100	127	10	237
Carbon Disulfide	1	27.9045	0	20	140	10	194
t-Butyl Alcohol	1	121.3288	0	100	121	21	185
n-Hexane	1	24.9461	0	20	125	43	179
Di-isopropyl-ether	1	29.355	0	20	147	47	159
1,1-Dichloroethene	1	11.401	0	20	57	42	172
Methyl Acetate	1	23.9771	0	20	120	10	192
Methyl-t-butyl ether	1	25.2423	0	20	126	43	154
1,1-Dichloroethane	1	11.6803	0	20	58	48	160
trans-1,2-Dichloroethene	1	10.9638	0	20	55	37	171
Ethyl-t-butyl ether	1	26.3086	0	20	132	53	149
cis-1,2-Dichloroethene	1	11.8172	0	20	59	45	161
Bromochloromethane	1	12.6392	0	20	63	42	170
2,2-Dichloropropane	1	12.1491	0	20	61	33	173
Ethyl acetate	1	27.4832	0	20	137	38	156
1,4-Dioxane	1	1163.444	0	1000	116	18	186
1,1-Dichloropropene	1	12.1994	0	20	61	51	157
Chloroform	1	12.495	0	20	62	47	157
Cyclohexane	1	26.6649	0	20	133	41	175
1,2-Dichloroethane	1	12.8562	0	20	64	43	154
2-Butanone	1	32.3151	0	20	162	20	186
1,1,1-Trichloroethane	1	12.1335	0	20	61	49	155
Carbon Tetrachloride	1	13.3699	0	20	67	47	159
Vinyl Acetate	1	38.5277	0	20	193*	31	160
Bromodichloromethane	1	12.5342	0	20	63	48	152
Methylcyclohexane	1	26.1254	0	20	131	47	167
Dibromomethane	1	11.0951	0	20	55	47	153
1,2-Dichloropropane	1	12.0191	0	20	60	53	153
Trichloroethene	1	12.2655	0	20	61	45	165
Benzene	1	11.694	0	20	58	41	163
tert-Amyl methyl ether	1	25.4578	0	20	127	51	146
Iso-propylacetate	1	22.4558	0	20	112	37	153
Methyl methacrylate	1	21.3229	0	20	107	40	160
Dibromochloromethane	1	10.1889	0	20	51	50	144
2-Chloroethylvinylether	1	11.1678	0	20	56	10	201
cis-1,3-Dichloropropene	1	9.9825	0	20	50	49	146
trans-1,3-Dichloropropene	1	9.8513	0	20	49	48	144
Ethyl methacrylate	1	23.2972	0	20	116	38	160
1,1,2-Trichloroethane	1	10.2728	0	20	51*	52	146
1,2-Dibromoethane	1	10.7226	0	20	54*	55	140
1,3-Dichloropropane	1	10.566	0	20	53*	54	142
4-Methyl-2-Pentanone	1	36.7236	0	20	184*	41	158
2-Hexanone	1	38.89	0	20	194*	39	163
Tetrachloroethene	1	9.6097	0	20	48	48	156
Toluene	1	10.7045	0	20	54	49	153
1,1,1,2-Tetrachloroethane	1	9.9032	0	20	50*	51	140
Chlorobenzene	1	10.436	0	20	52	43	155

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS110098

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	23.6723	0	20	118	21	181
n-Amyl acetate	1	25.2029	0	20	126	20	182
Bromoform	**1**	**9.6504**	**0**	**20**	**48**	**47**	**137**
Ethylbenzene	**1**	**9.8516**	**0**	**20**	**49**	**41**	**153**
1,1,2,2-Tetrachloroethane	**1**	**8.8153**	**0**	**20**	**44**	**36**	**152**
Styrene	**1**	**10.493**	**0**	**20**	**52**	**34**	**170**
m&p-Xylenes	**1**	**21.3078**	**0**	**40**	**53**	**16**	**184**
o-Xylene	**1**	**10.3149**	**0**	**20**	**52**	**31**	**166**
trans-1,4-Dichloro-2-butene	1	22.4162	0	20	112	10	154
1,3-Dichlorobenzene	**1**	**10.8442**	**0**	**20**	**54**	**46**	**147**
1,4-Dichlorobenzene	**1**	**9.7829**	**0**	**20**	**49**	**37**	**156**
1,2-Dichlorobenzene	**1**	**10.405**	**0**	**20**	**52**	**42**	**150**
Isopropylbenzene	**1**	**10.9925**	**0**	**20**	**55**	**32**	**174**
Cyclohexanone	1	69.6198	0	100	70	10	254
Camphene	1	19.9797	0	20	100	10	172
1,2,3-Trichloropropane	1	12.1773	0	20	61	20	164
2-Chlorotoluene	1	11.029	0	20	55	43	153
p-Ethyltoluene	1	23.0364	0	20	115	36	164
4-Chlorotoluene	1	10.826	0	20	54	34	160
n-Propylbenzene	1	10.5751	0	20	53	36	170
Bromobenzene	1	8.5926	0	20	43*	44	142
1,3,5-Trimethylbenzene	1	10.1794	0	20	51	37	165
Butyl methacrylate	1	22.5927	0	20	113	30	169
t-Butylbenzene	1	10.0403	0	20	50	48	152
1,2,4-Trimethylbenzene	1	11.6299	0	20	58	38	162
sec-Butylbenzene	1	12.3647	0	20	62	42	164
4-Isopropyltoluene	1	11.0917	0	20	55	40	162
n-Butylbenzene	1	14.1549	0	20	71	30	176
p-Diethylbenzene	1	23.7146	0	20	119	23	179
1,2,4,5-Tetramethylbenzene	1	23.9626	0	20	120	18	177
1,2-Dibromo-3-Chloropropane	**1**	**10.0688**	**0**	**20**	**50**	**32**	**154**
Camphor	1	266.1493	0	200	133	10	202
Hexachlorobutadiene	1	8.7236	0	20	44	23	181
1,2,4-Trichlorobenzene	**1**	**9.7903**	**0**	**20**	**49**	**28**	**169**
1,2,3-Trichlorobenzene	**1**	**9.0709**	**0**	**20**	**45**	**30**	**172**
Naphthalene	1	11.5733	0	20	58	13	191

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS110098

	Data File	Sample ID:	Analysis Date
Spike or Dup:	11M112493.D	AD38798-005(MSD:AD38798-0	6/26/2023 4:16:00 PM
Duplicate(If applicable):	11M112492.D	AD38798-004(MS:AD38798-003	6/26/2023 3:57:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	27.8184	24.8889	11	78
Dichlorodifluoromethane	1	2.3443	2.0232	15	62
Chloromethane	1	5.7604	5.0599	13	67
Bromomethane	1	13.7926	11.6346	17	65
Vinyl Chloride	1	10.0145	9.0673	9.9	55
Chloroethane	1	15.5319	13.9806	11	59
Trichlorofluoromethane	1	21.2137	18.9104	11	56
Ethyl ether	1	21.6749	19.1382	12	55
Furan	1	24.328	21.4363	13	55
1,1,2-Trichloro-1,2,2-trifluoroethane	1	24.8826	22.6557	9.4	58
Methylene Chloride	1	10.6076	9.7599	8.3	36
Acrolein	1	95.9936	87.7588	9	66
Acrylonitrile	1	26.9596	23.5071	14	59
Iodomethane	1	27.9419	21.6014	26	66
Acetone	1	127.347	119.9636	6	85
Carbon Disulfide	1	27.9045	26.1253	6.6	61
t-Butyl Alcohol	1	121.3288	121.397	0.06	78
n-Hexane	1	24.9461	22.2558	11	56
Di-isopropyl-ether	1	29.355	26.8689	8.8	54
1,1-Dichloroethene	1	11.401	10.0626	12	56
Methyl Acetate	1	23.9771	23.6647	1.3	71
Methyl-t-butyl ether	1	25.2423	24.286	3.9	53
1,1-Dichloroethane	1	11.6803	10.4942	11	54
trans-1,2-Dichloroethene	1	10.9638	9.7856	11	54
Ethyl-t-butyl ether	1	26.3086	24.2484	8.2	53
cis-1,2-Dichloroethene	1	11.8172	11.706	0.95	53
Bromochloromethane	1	12.6392	11.6371	8.3	54
2,2-Dichloropropane	1	12.1491	11.0543	9.4	55
Ethyl acetate	1	27.4832	22.6423	19	56
1,4-Dioxane	1	1163.444	1124.429	3.4	95
1,1-Dichloropropene	1	12.1994	10.5826	14	54
Chloroform	1	12.495	11.3295	9.8	53
Cyclohexane	1	26.6649	24.2629	9.4	55
1,2-Dichloroethane	1	12.8562	11.8394	8.2	52
2-Butanone	1	32.3151	35.2426	8.7	58
1,1,1-Trichloroethane	1	12.1335	10.9476	10	54
Carbon Tetrachloride	1	13.3699	11.2345	17	54
Vinyl Acetate	1	38.5277	35.546	8.1	55
Bromodichloromethane	1	12.5342	11.6147	7.6	53
Methylcyclohexane	1	26.1254	24.1114	8	55
Dibromomethane	1	11.0951	10.2109	8.3	53
1,2-Dichloropropane	1	12.0191	11.1563	7.4	53
Trichloroethene	1	12.2655	11.0639	10	54
Benzene	1	11.694	10.6256	9.6	52
tert-Amyl methyl ether	1	25.4578	23.8097	6.7	52
Iso-propylacetate	1	22.4558	20.7334	8	54
Methyl methacrylate	1	21.3229	19.8128	7.3	55
Dibromochloromethane	1	10.1889	9.0649	12	52
2-Chloroethylvinylether	1	11.1678	12.6724	13	224
cis-1,3-Dichloropropene	1	9.9825	9.129	8.9	53
trans-1,3-Dichloropropene	1	9.8513	9.1379	7.5	53
Ethyl methacrylate	1	23.2972	20.4436	13	55
1,1,2-Trichloroethane	1	10.2728	9.6243	6.5	52
1,2-Dibromoethane	1	10.7226	10.0172	6.8	52
1,3-Dichloropropane	1	10.566	9.4939	11	53
4-Methyl-2-Pentanone	1	36.7236	35.5742	3.2	69
2-Hexanone	1	38.89	34.4406	12	54
Tetrachloroethene	1	9.6097	8.7663	9.2	53
Toluene	1	10.7045	9.7363	9.5	53
1,1,1,2-Tetrachloroethane	1	9.9032	8.8461	11	53
Chlorobenzene	1	10.436	9.5609	8.8	53

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: MBS110098

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	23.6723	21.3323	10	72
n-Amyl acetate	1	25.2029	22.7523	10	72
Bromoform	**1**	**9.6504**	**8.7407**	**9.9**	**54**
Ethylbenzene	**1**	**9.8516**	**8.5848**	**14**	**57**
1,1,2,2-Tetrachloroethane	**1**	**8.8153**	**8.0322**	**9.3**	**58**
Styrene	**1**	**10.493**	**9.5455**	**9.5**	**56**
m&p-Xylenes	**1**	**21.3078**	**19.4807**	**9**	**107**
o-Xylene	**1**	**10.3149**	**9.6314**	**6.9**	**55**
trans-1,4-Dichloro-2-butene	1	22.4162	19.8794	12	71
1,3-Dichlorobenzene	**1**	**10.8442**	**9.3379**	**15**	**53**
1,4-Dichlorobenzene	**1**	**9.7829**	**8.848**	**10**	**68**
1,2-Dichlorobenzene	**1**	**10.405**	**9.4136**	**10**	**53**
Isopropylbenzene	**1**	**10.9925**	**9.4947**	**15**	**53**
Cyclohexanone	1	69.6198	65.6246	5.9	77
Camphene	1	19.9797	18.0928	9.9	68
1,2,3-Trichloropropane	1	12.1773	11.1885	8.5	54
2-Chlorotoluene	1	11.029	10.0565	9.2	55
p-Ethyltoluene	1	23.0364	20.354	12	56
4-Chlorotoluene	1	10.826	9.8039	9.9	55
n-Propylbenzene	1	10.5751	9.54	10	51
Bromobenzene	1	8.5926	7.6989	11	72
1,3,5-Trimethylbenzene	1	10.1794	9.2682	9.4	56
Butyl methacrylate	1	22.5927	20.5201	9.6	83
t-Butylbenzene	1	10.0403	9.127	9.5	70
1,2,4-Trimethylbenzene	1	11.6299	10.2594	13	72
sec-Butylbenzene	1	12.3647	10.6984	14	54
4-Isopropyltoluene	1	11.0917	9.6309	14	69
n-Butylbenzene	1	14.1549	12.5289	12	55
p-Diethylbenzene	1	23.7146	21.3674	10	70
1,2,4,5-Tetramethylbenzene	1	23.9626	21.0374	13	51
1,2-Dibromo-3-Chloropropane	**1**	**10.0688**	**9.3459**	**7.4**	**56**
Camphor	1	266.1493	228.3727	15	127
Hexachlorobutadiene	1	8.7236	7.8402	11	69
1,2,4-Trichlorobenzene	**1**	**9.7903**	**8.741**	**11**	**87**
1,2,3-Trichlorobenzene	**1**	**9.0709**	**8.2517**	**9.5**	**81**
Naphthalene	1	11.5733	9.8242	16	80

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

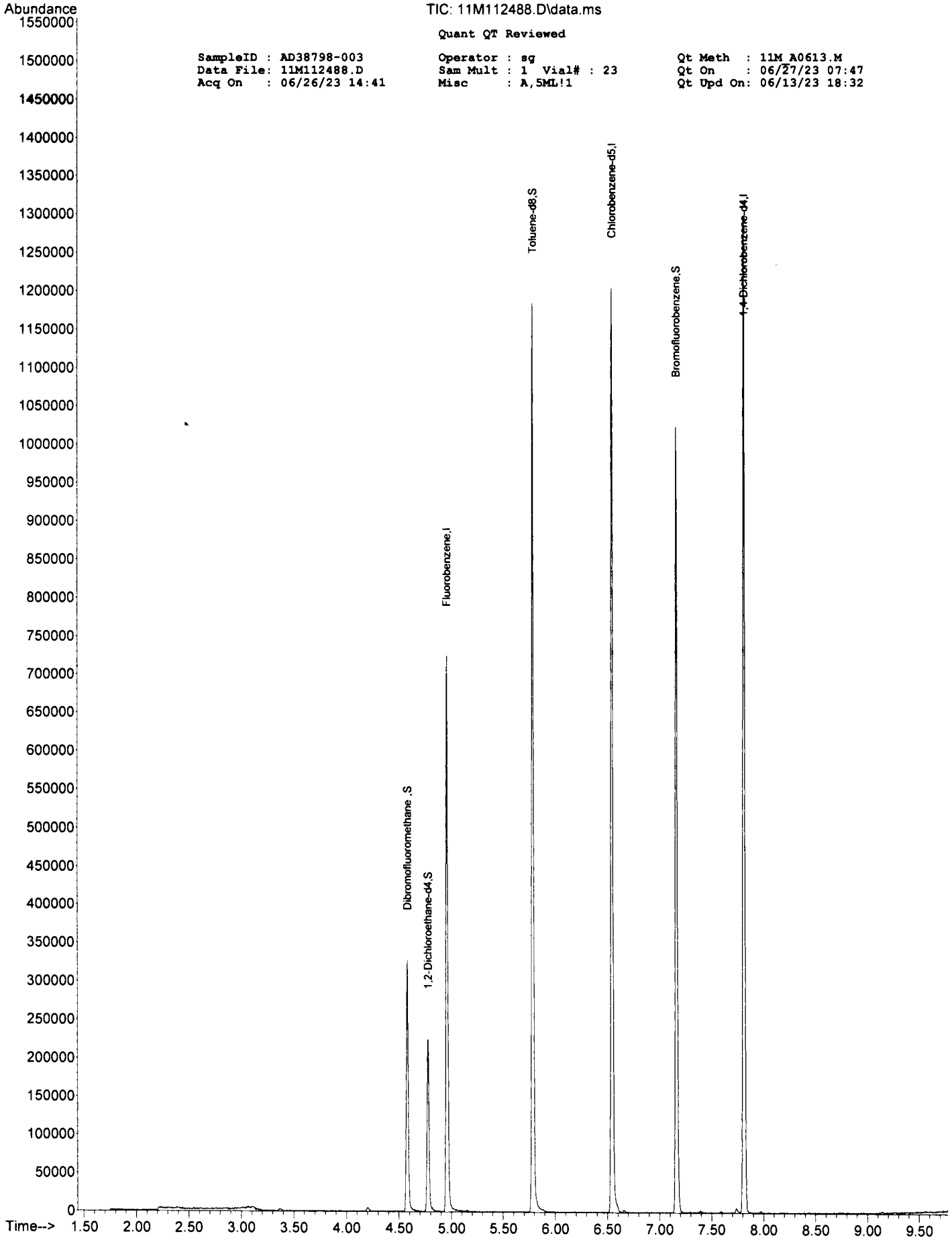
Quantitation Report (QT Reviewed)

SampleID : AD38798-003 Operator : sg Qt Meth : 11M_A0613.M
Data File: 11M112488.D Sam Mult : 1 Vial# : 23 Qt On : 06/27/23 07:47
Acq On : 06/26/23 14:41 Misc : A,5ML!1 Qt Upd On: 06/13/23 18:32

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-26-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.958	96	431196	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.546	117	515876	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.813	152	270775	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.582	111	127435	30.56	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.87%			
39) 1,2-Dichloroethane-d4	4.778	67	53483	31.24	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.13%			
66) Toluene-d8	5.787	98	535322	27.84	ug/l	0.00
Spiked Amount 30.000			Recovery = 92.80%			
76) Bromofluorobenzene	7.163	174	223865	31.13	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.77%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 11M112488.D\data.ms
Quant QT Reviewed
SampleID : AD38798-003
Data File: 11M112488.D
Acq On : 06/26/23 14:41
Operator : sg
Sam Mult : 1 Vial# : 23
Misc : A,5ML!1
Qt Meth : 11M_A0613.M
Qt On : 06/27/23 07:47
Qt Upd On: 06/13/23 18:32
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Quantitation Report (QT Reviewed)

SampleID : AD38798-004(MS:AD38 Operator : sg Qt Meth : 11M_A0613.M
Data File: 11M112492.D Sam Mult : 1 Vial# : 27 Qt On : 06/27/23 07:47
Acq On : 06/26/23 15:57 Misc : A,5ML!1 Qt Upd On: 06/13/23 18:32

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-26-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.958	96	464834	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.546	117	553730	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.813	152	318229	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.579	111	141476	31.47	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.90%			
39) 1,2-Dichloroethane-d4	4.775	67	58841	31.88	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.27%			
66) Toluene-d8	5.784	98	565684	27.41	ug/l	0.00
Spiked Amount 30.000			Recovery = 91.37%			
76) Bromofluorobenzene	7.164	174	251190m	29.72	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.07%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.675	51	130101m	24.8889	ug/l	
6) Dichlorodifluoromethane	1.675	85	7487m	2.0232	ug/l	
7) Chloromethane	1.838	50	19977m	5.0599	ug/l	
8) Bromomethane	2.238	94	34609m	11.6346	ug/l	
9) Vinyl Chloride	1.940	62	43672m	9.0673	ug/l	
10) Chloroethane	2.328	64	45260m	13.9806	ug/l	
11) Trichlorofluoromethane	2.546	101	137424m	18.9104	ug/l	
12) Ethyl ether	2.778	59	56920	19.1382	ug/l	95
13) Furan	2.813	39	124372m	21.4363	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.971	101	82223m	22.6557	ug/l	
15) Methylene Chloride	3.366	84	40838m	9.7599	ug/l	
16) Acrolein	2.884	56	33244m	87.7588	ug/l	
17) Acrylonitrile	3.566	53	18058m	23.5071	ug/l	
18) Iodomethane	3.112	142	103146m	21.6014	ug/l	
19) Acetone	3.009	43	76606m	119.9636	ug/l	
20) Carbon Disulfide	3.180	76	272333m	26.1253	ug/l	
21) t-Butyl Alcohol	3.440	59	23649m	121.3970	ug/l	
22) n-Hexane	3.810	57	68323m	22.2558	ug/l	
23) Di-isopropyl-ether	3.952	45	211292m	26.8689	ug/l	
24) 1,1-Dichloroethene	2.977	61	60445m	10.0626	ug/l	
25) Methyl Acetate	3.276	43	31986m	23.6647	ug/l	
26) Methyl-t-butyl ether	3.595	73	183930m	24.2860	ug/l	
27) 1,1-Dichloroethane	3.923	63	71105m	10.4942	ug/l	
28) trans-1,2-Dichloroethene	3.601	96	43028m	9.7856	ug/l	
29) Ethyl-t-butyl ether	4.196	59	198964m	24.2484	ug/l	
30) cis-1,2-Dichloroethene	4.305	61	72947m	11.7060	ug/l	
31) Bromochloromethane	4.450	49	29739	11.6371	ug/l	93
32) 2,2-Dichloropropane	4.308	77	60539m	11.0543	ug/l	
33) Ethyl acetate	4.328	43	47076m	22.6423	ug/l	
34) 1,4-Dioxane	5.337	88	37515m	1124.4287	ug/l	
35) 1,1-Dichloropropene	4.697	75	60614m	10.5826	ug/l	
36) Chloroform	4.489	83	82493m	11.3295	ug/l	
38) Cyclohexane	4.646	56	107885m	24.2629	ug/l	
40) 1,2-Dichloroethane	4.816	62	56320m	11.8394	ug/l	
41) 2-Butanone	4.305	43	30378	35.2426	ug/l	93
42) 1,1,1-Trichloroethane	4.611	97	74038m	10.9476	ug/l	
43) Carbon Tetrachloride	4.704	117	63916m	11.2345	ug/l	
44) Vinyl Acetate	3.942	43	273833m	35.5460	ug/l	
45) Bromodichloromethane	5.408	83	57367m	11.6147	ug/l	
46) Methylcyclohexane	5.267	83	116616m	24.1114	ug/l	
47) Dibromomethane	5.341	174	29676m	10.2109	ug/l	
48) 1,2-Dichloropropane	5.276	63	41787m	11.1563	ug/l	
49) Trichloroethene	5.154	130	55128m	11.0639	ug/l	
50) Benzene	4.816	78	176885m	10.6256	ug/l	
51) tert-Amyl methyl ether	4.855	73	187594m	23.8097	ug/l	
53) Iso-propylacetate	4.813	43	100303m	20.7334	ug/l	
54) Methyl methacrylate	5.299	41	44867m	19.8128	ug/l	
55) Dibromochloromethane	6.234	129	39264m	9.0649	ug/l	
56) 2-Chloroethylvinylether	5.540	63	13559	12.6724	ug/l	96
57) cis-1,3-Dichloropropene	5.636	75	59117m	9.1290	ug/l	
58) trans-1,3-Dichloropropene	5.913	75	49709m	9.1379	ug/l	
59) Ethyl methacrylate	5.932	41	52608m	20.4436	ug/l	
60) 1,1,2-Trichloroethane	6.016	97	36423m	9.6243	ug/l	
61) 1,2-Dibromoethane	6.312	107	35681m	10.0172	ug/l	
62) 1,3-Dichloropropane	6.109	76	59543m	9.4939	ug/l	
63) 4-Methyl-2-Pentanone	5.701	43	70880m	35.5742	ug/l	
64) 2-Hexanone	6.122	43	46638m	34.4406	ug/l	
65) Tetrachloroethene	6.112	164	42819m	8.7663	ug/l	
67) Toluene	5.823	92	116889m	9.7363	ug/l	

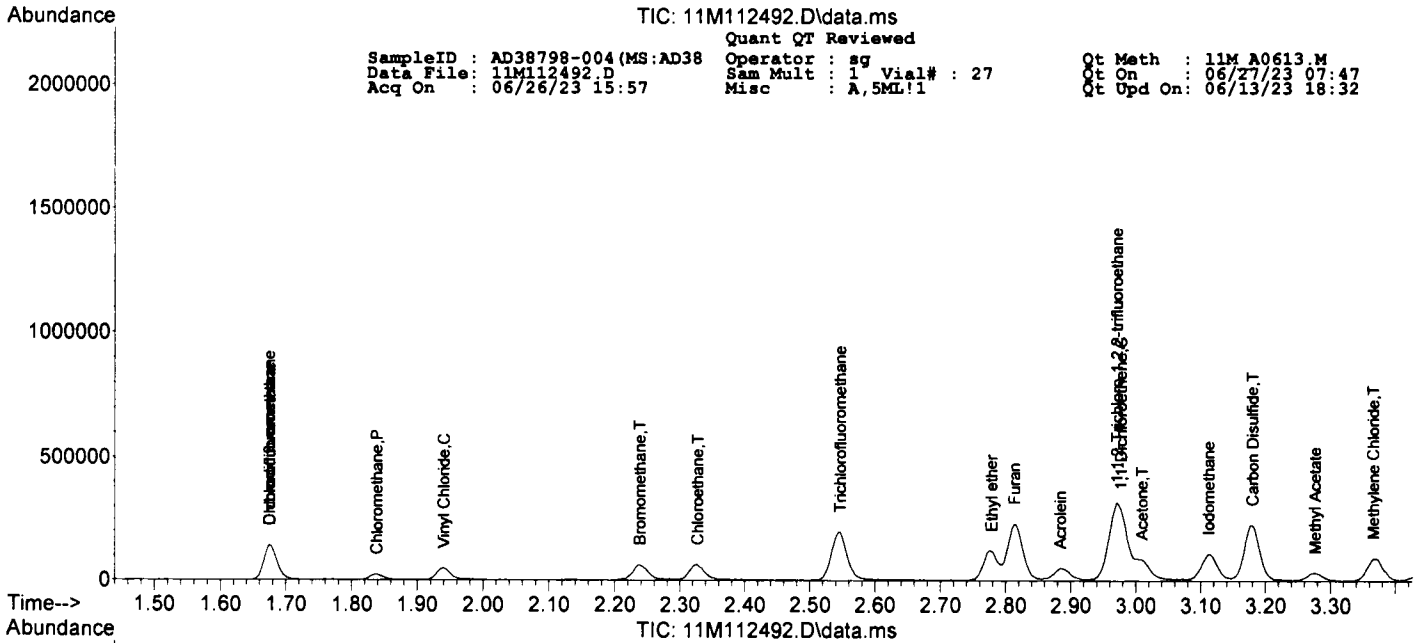
Quantitation Report (QT Reviewed)

SampleID : AD38798-004(MS:AD38 Operator : sg Qt Meth : 11M_A0613.M
Data File: 11M112492.D Sam Mult : 1 Vial# : 27 Qt On : 06/27/23 07:47
Acq On : 06/26/23 15:57 Misc : A,5ML!1 Qt Upd On: 06/13/23 18:32

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-26-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.595	133	41327m	8.8461	ug/l	
69)	Chlorobenzene	6.562	112	134427m	9.5609	ug/l	
71)	n-Butyl acrylate	6.794	55	104209m	21.3323	ug/l	
72)	n-Amyl acetate	6.910	43	91682m	22.7523	ug/l	
73)	Bromoform	7.003	173	23150	8.7407	ug/l	98
74)	Ethylbenzene	6.601	106	58512	8.5848	ug/l	91
75)	1,1,2,2-Tetrachloroethane	7.212	83	40645m	8.0322	ug/l	
77)	Styrene	6.877	104	131952m	9.5455	ug/l	
78)	m&p-Xylenes	6.656	106	168794m	19.4807	ug/l	
79)	o-Xylene	6.877	106	83171m	9.6314	ug/l	
80)	trans-1,4-Dichloro-2-b...	7.241	53	28334m	19.8794	ug/l	
81)	1,3-Dichlorobenzene	7.781	146	90424	9.3379	ug/l	98
82)	1,4-Dichlorobenzene	7.826	146	92373	8.8480	ug/l	99
83)	1,2-Dichlorobenzene	8.048	146	81391m	9.4136	ug/l	
84)	Isopropylbenzene	7.064	105	184628m	9.4947	ug/l	
85)	Cyclohexanone	7.138	55	8657m	65.6246	ug/l	
86)	Camphene	7.238	93	95145m	18.0928	ug/l	
87)	1,2,3-Trichloropropane	7.254	75	56076m	11.1885	ug/l	
88)	2-Chlorotoluene	7.360	91	125021m	10.0565	ug/l	
89)	p-Ethyltoluene	7.344	105	413628m	20.3540	ug/l	
90)	4-Chlorotoluene	7.414	91	120248m	9.8039	ug/l	
91)	n-Propylbenzene	7.289	91	219800m	9.5400	ug/l	
92)	Bromobenzene	7.263	77	88689m	7.6989	ug/l	
93)	1,3,5-Trimethylbenzene	7.373	105	146048	9.2682	ug/l	99
94)	Butyl methacrylate	7.376	41	73475m	20.5201	ug/l	
95)	t-Butylbenzene	7.569	119	137492m	9.1270	ug/l	
96)	1,2,4-Trimethylbenzene	7.591	105	156915m	10.2594	ug/l	
97)	sec-Butylbenzene	7.691	105	174544m	10.6984	ug/l	
98)	4-Isopropyltoluene	7.758	119	146031m	9.6309	ug/l	
99)	n-Butylbenzene	7.993	91	177799m	12.5289	ug/l	
100)	p-Diethylbenzene	7.977	119	170973	21.3674	ug/l	87
101)	1,2,4,5-Tetramethylben...	8.437	119	210587m	21.0374	ug/l	
102)	1,2-Dibromo-3-Chloropr...	8.492	157	6159	9.3459	ug/l	91
103)	Camphor	8.929	95	39060m	228.3727	ug/l	
104)	Hexachlorobutadiene	9.070	225	16093	7.8402	ug/l	99
105)	1,2,4-Trichlorobenzene	8.987	180	30526	8.7410	ug/l	97
106)	1,2,3-Trichlorobenzene	9.289	180	18884	8.2517	ug/l	96
107)	Naphthalene	9.147	128	51025m	9.8242	ug/l	

(#) = qualifier out of range (m) = manual integration (+) = signals summed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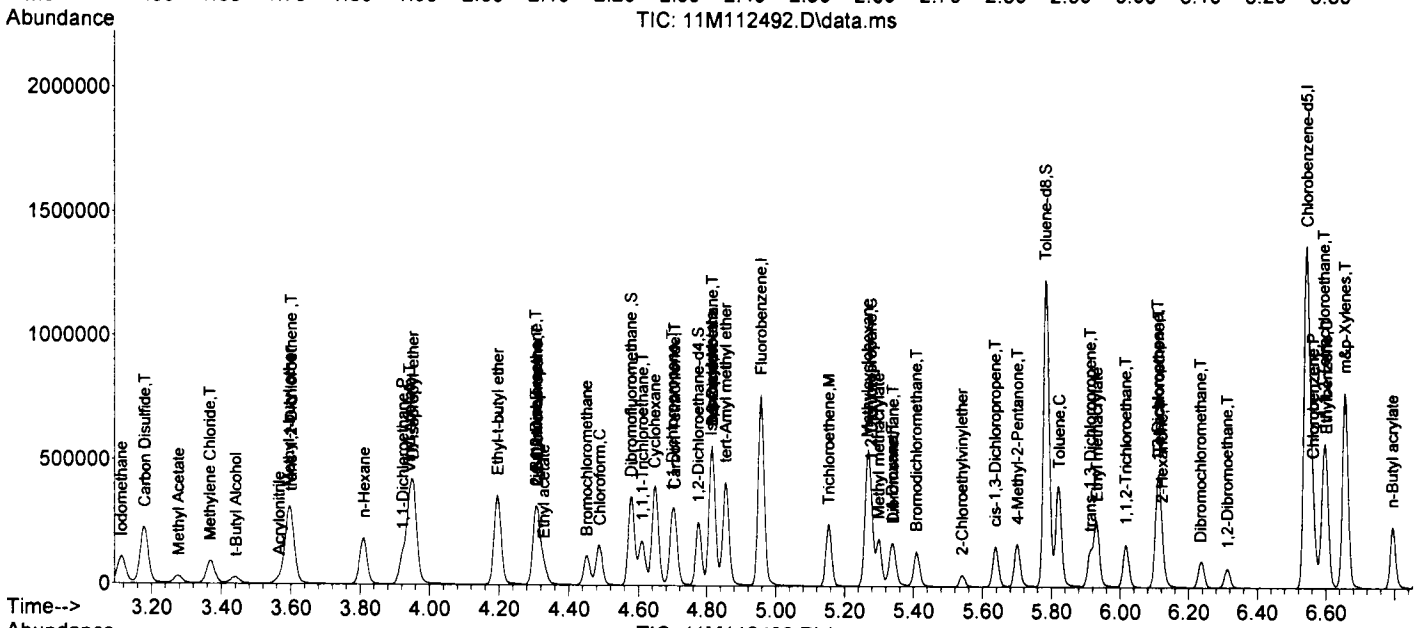
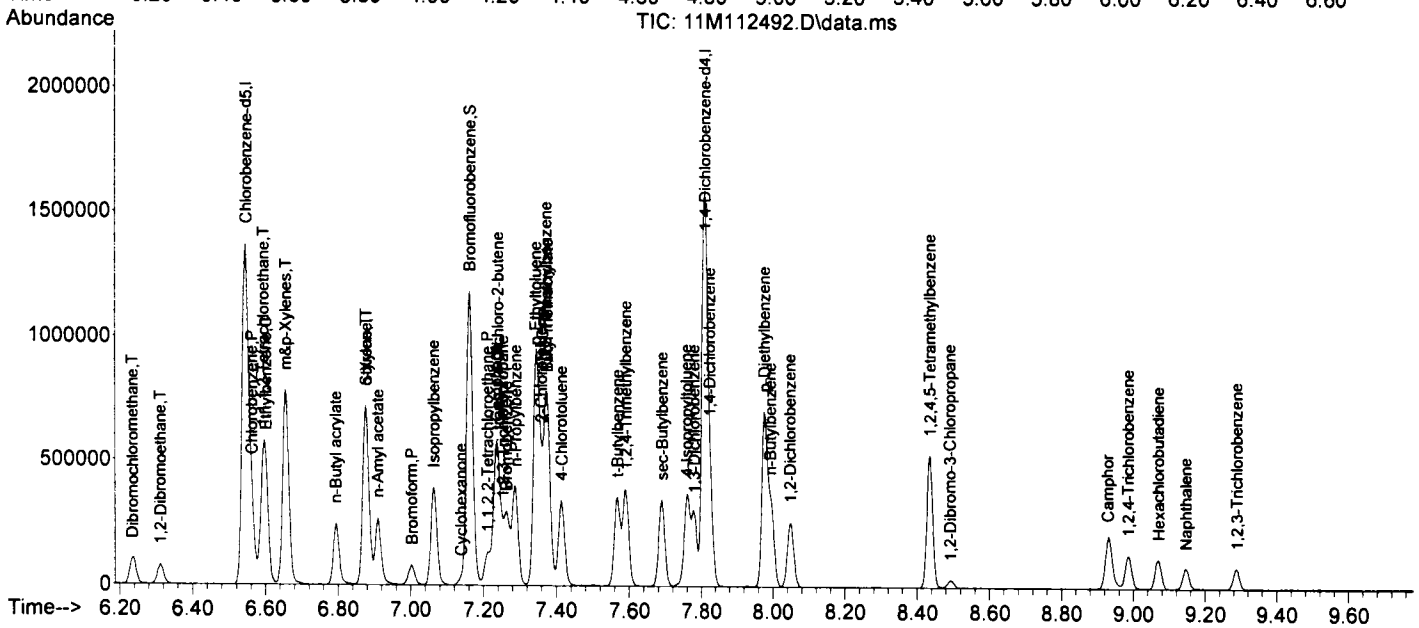
SampleID : AD38798-004(MS:AD38
Data File: 11M112492.D
Acq On : 06/26/23 15:57
Operator : sg
Sam Mult : 1 Vial# : 27
Misc : A,5ML!1
Qt Meth : 11M A0613.M
Qt On : 06/27/23 07:47
Qt Upd On: 06/13/23 18:32
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
Time-->


Abundance
TIC: 11M112492.D\data.ms
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
Time-->


Abundance
TIC: 11M112492.D\data.ms
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,P
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
4-Chlorotoluene
1,4-Dichlorobenzene-d4,I
1,4-Dichlorobenzene
n-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : AD38798-005(MSD:AD3 Operator : sg Qt Meth : 11M_A0613.M
Data File: 11M112493.D Sam Mult : 1 Vial# : 28 Qt On : 06/27/23 07:47
Acq On : 06/26/23 16:16 Misc : A,5ML!1 Qt Upd On: 06/13/23 18:32

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-26-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.958	96	463640	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.543	117	546820	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.813	152	314278m	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.582	111	139316	31.07	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.57%			
39) 1,2-Dichloroethane-d4	4.778	67	55834	30.33	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.10%			
66) Toluene-d8	5.784	98	576298m	28.28	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.27%			
76) Bromofluorobenzene	7.164	174	259602m	31.10	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.67%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.678	51	145041m	27.8184	ug/l	
6) Dichlorodifluoromethane	1.675	85	8653	2.3443	ug/l	95
7) Chloromethane	1.838	50	22684m	5.7604	ug/l	
8) Bromomethane	2.238	94	40923m	13.7926	ug/l	
9) Vinyl Chloride	1.940	62	48110m	10.0145	ug/l	
10) Chloroethane	2.328	64	50153m	15.5319	ug/l	
11) Trichlorofluoromethane	2.546	101	153766m	21.2137	ug/l	
12) Ethyl ether	2.775	59	64299m	21.6749	ug/l	
13) Furan	2.817	39	140787m	24.3280	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.971	101	90073m	24.8826	ug/l	
15) Methylene Chloride	3.370	84	44271m	10.6076	ug/l	
16) Acrolein	2.890	56	36270m	95.9936	ug/l	
17) Acrylonitrile	3.566	53	20657m	26.9596	ug/l	
18) Iodomethane	3.112	142	134498m	27.9419	ug/l	
19) Acetone	3.009	43	81112m	127.3470	ug/l	
20) Carbon Disulfide	3.180	76	290132m	27.9045	ug/l	
21) t-Butyl Alcohol	3.437	59	23575m	121.3288	ug/l	
22) n-Hexane	3.810	57	76385m	24.9461	ug/l	
23) Di-isopropyl-ether	3.955	45	230250m	29.3550	ug/l	
24) 1,1-Dichloroethene	2.977	61	68309m	11.4010	ug/l	
25) Methyl Acetate	3.276	43	32325	23.9771	ug/l	100
26) Methyl-t-butyl ether	3.598	73	190681m	25.2423	ug/l	
27) 1,1-Dichloroethane	3.923	63	78938m	11.6803	ug/l	
28) trans-1,2-Dichloroethene	3.601	96	48085m	10.9638	ug/l	
29) Ethyl-t-butyl ether	4.196	59	215314m	26.3086	ug/l	
30) cis-1,2-Dichloroethene	4.305	61	73451m	11.8172	ug/l	
31) Bromochloromethane	4.450	49	32217	12.6392	ug/l	87
32) 2,2-Dichloropropane	4.308	77	66364m	12.1491	ug/l	
33) Ethyl acetate	4.328	43	56994m	27.4832	ug/l	
34) 1,4-Dioxane	5.337	88	38717m	1163.4444	ug/l	
35) 1,1-Dichloropropene	4.697	75	69695m	12.1994	ug/l	
36) Chloroform	4.489	83	90746m	12.4950	ug/l	
38) Cyclohexane	4.649	56	118261m	26.6649	ug/l	
40) 1,2-Dichloroethane	4.820	62	61000m	12.8562	ug/l	
41) 2-Butanone	4.305	43	27783m	32.3151	ug/l	
42) 1,1,1-Trichloroethane	4.611	97	81848m	12.1335	ug/l	
43) Carbon Tetrachloride	4.707	117	75869	13.3699	ug/l	97
44) Vinyl Acetate	3.945	43	296041m	38.5277	ug/l	
45) Bromodichloromethane	5.411	83	61750m	12.5342	ug/l	
46) Methylcyclohexane	5.267	83	126032m	26.1254	ug/l	
47) Dibromomethane	5.341	174	32163m	11.0951	ug/l	
48) 1,2-Dichloropropane	5.276	63	44903m	12.0191	ug/l	
49) Trichloroethene	5.154	130	60958m	12.2655	ug/l	
50) Benzene	4.820	78	194171m	11.6940	ug/l	
51) tert-Amyl methyl ether	4.855	73	200064m	25.4578	ug/l	
53) Iso-propylacetate	4.813	43	107280m	22.4558	ug/l	
54) Methyl methacrylate	5.299	41	47684m	21.3229	ug/l	
55) Dibromochloromethane	6.234	129	43582m	10.1889	ug/l	
56) 2-Chloroethylvinylether	5.543	63	11800m	11.1678	ug/l	
57) cis-1,3-Dichloropropene	5.636	75	63837m	9.9825	ug/l	
58) trans-1,3-Dichloropropene	5.913	75	52921m	9.8513	ug/l	
59) Ethyl methacrylate	5.932	41	59203m	23.2972	ug/l	
60) 1,1,2-Trichloroethane	6.016	97	38392m	10.2728	ug/l	
61) 1,2-Dibromoethane	6.312	107	37717m	10.7226	ug/l	
62) 1,3-Dichloropropane	6.109	76	65440m	10.5660	ug/l	
63) 4-Methyl-2-Pentanone	5.701	43	72257m	36.7236	ug/l	
64) 2-Hexanone	6.122	43	52006m	38.8900	ug/l	
65) Tetrachloroethene	6.112	164	46353m	9.6097	ug/l	
67) Toluene	5.823	92	126910m	10.7045	ug/l	

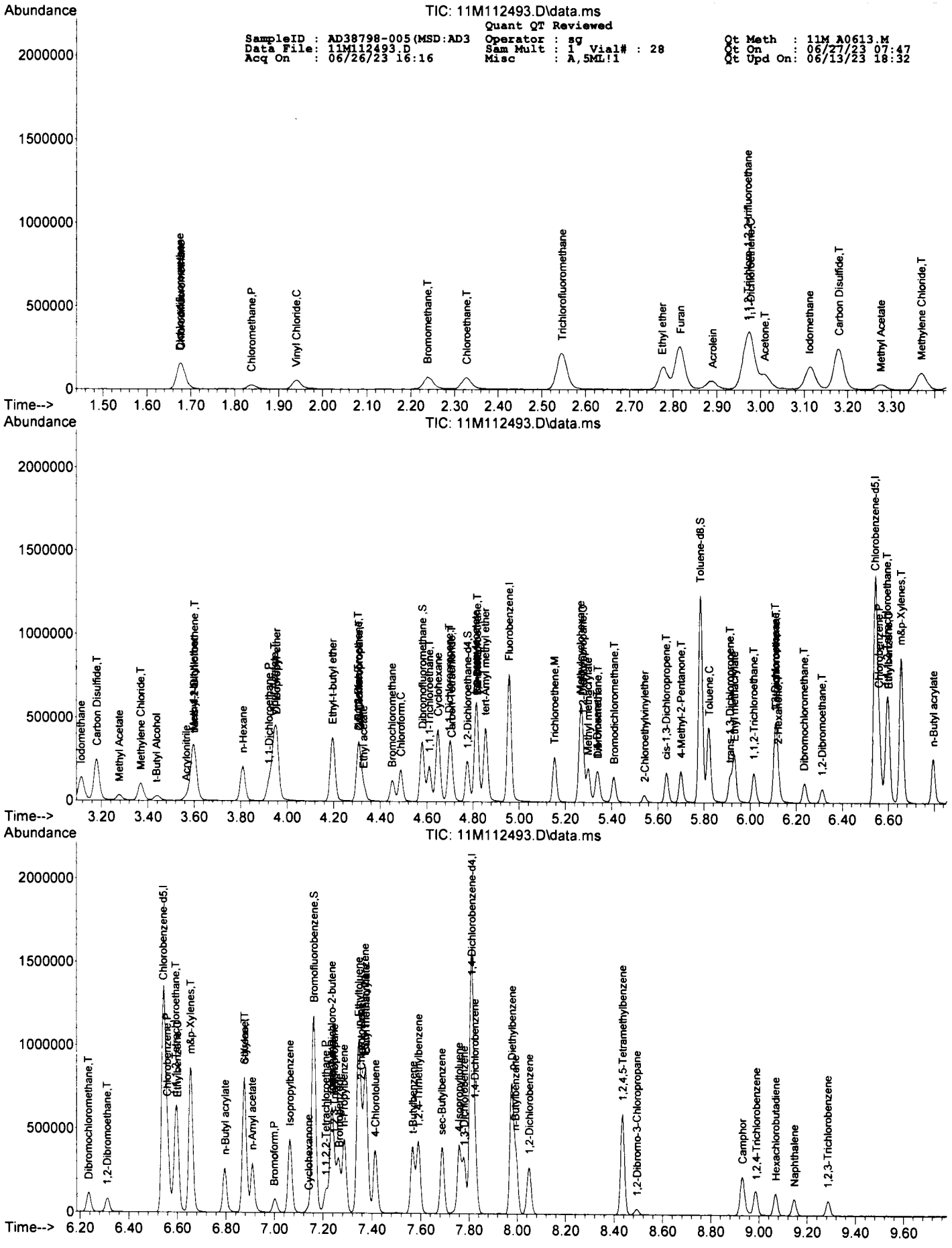
Quantitation Report (QT Reviewed)

SampleID : AD38798-005(MSD:AD3 Operator : sg Qt Meth : 11M_A0613.M
Data File: 11M112493.D Sam Mult : 1 Vial# : 28 Qt On : 06/27/23 07:47
Acq On : 06/26/23 16:16 Misc : A,5ML!1 Qt Upd On: 06/13/23 18:32

Data Path : G:\GcMsData\2023\GCMS_11\Data\06-26-23\
Qt Path : G:\GcMsData\2023\GCMS_11\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,1,1,2-Tetrachloroethane	6.595	133	45688m	9.9032	ug/l	
69) Chlorobenzene	6.559	112	144901m	10.4360	ug/l	
71) n-Butyl acrylate	6.797	55	114204m	23.6723	ug/l	
72) n-Amyl acetate	6.910	43	100296m	25.2029	ug/l	
73) Bromoform	7.000	173	25242	9.6504	ug/l	95
74) Ethylbenzene	6.601	106	66312	9.8516	ug/l	95
75) 1,1,2,2-Tetrachloroethane	7.212	83	43991m	8.8153	ug/l	
77) Styrene	6.877	104	143249m	10.4930	ug/l	
78) m&p-Xylenes	6.656	106	182333	21.3078	ug/l	98
79) o-Xylene	6.877	106	87967m	10.3149	ug/l	
80) trans-1,4-Dichloro-2-b...	7.238	53	31553m	22.4162	ug/l	
81) 1,3-Dichlorobenzene	7.781	146	103707m	10.8442	ug/l	
82) 1,4-Dichlorobenzene	7.826	146	100866m	9.7829	ug/l	
83) 1,2-Dichlorobenzene	8.051	146	88846m	10.4050	ug/l	
84) Isopropylbenzene	7.064	105	211098m	10.9925	ug/l	
85) Cyclohexanone	7.141	55	9070m	69.6198	ug/l	
86) Camphene	7.238	93	103763m	19.9797	ug/l	
87) 1,2,3-Trichloropropane	7.247	75	60274m	12.1773	ug/l	
88) 2-Chlorotoluene	7.357	91	135409m	11.0290	ug/l	
89) p-Ethyltoluene	7.347	105	462328m	23.0364	ug/l	
90) 4-Chlorotoluene	7.414	91	131136m	10.8260	ug/l	
91) n-Propylbenzene	7.286	91	240623m	10.5751	ug/l	
92) Bromobenzene	7.267	77	97755m	8.5926	ug/l	
93) 1,3,5-Trimethylbenzene	7.373	105	158415m	10.1794	ug/l	
94) Butyl methacrylate	7.376	41	79892m	22.5927	ug/l	
95) t-Butylbenzene	7.569	119	149372m	10.0403	ug/l	
96) 1,2,4-Trimethylbenzene	7.591	105	175667m	11.6299	ug/l	
97) sec-Butylbenzene	7.688	105	199225m	12.3647	ug/l	
98) 4-Isopropyltoluene	7.758	119	166092m	11.0917	ug/l	
99) n-Butylbenzene	7.993	91	198381m	14.1549	ug/l	
100) p-Diethylbenzene	7.980	119	187398m	23.7146	ug/l	
101) 1,2,4,5-Tetramethylben...	8.437	119	236890	23.9626	ug/l	100
102) 1,2-Dibromo-3-Chloropr...	8.495	157	6553	10.0688	ug/l	89
103) Camphor	8.932	95	44956m	266.1493	ug/l	
104) Hexachlorobutadiene	9.070	225	17684	8.7236	ug/l	99
105) 1,2,4-Trichlorobenzene	8.990	180	33766	9.7903	ug/l	97
106) 1,2,3-Trichlorobenzene	9.286	180	20501m	9.0709	ug/l	
107) Naphthalene	9.147	128	59376	11.5733	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 11M112493.D\data.ms
Quant QT Reviewed
SampleID : AD38798-005(MSD:AD3
Data File: 11M112493.D
Acq On : 06/26/23 16:16
Operator : sg
Sam Mult : 1 Vial# : 28
Misc : A,5ML!1
Qt Meth : 11M A0613.M
Qt On : 06/27/23 07:47
Qt Upd On: 06/13/23 18:32
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
Time-->
Abundance
TIC: 11M112493.D\data.ms
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Acrylonitrile
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
Carbon Tetrachloride,T
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,P
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
Time-->
Abundance
TIC: 11M112493.D\data.ms
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,P
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
4-Chlorotoluene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
1,4-Dichlorobenzene-d4,I
n-Butylbenzene
Diethylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

GC/MS Volatile Data
Logbook Data

RUN LOG

1-1-11M111784

Instrument: GCMS_11Year: 2023
Analyst: WP

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
11M111784.	BFB TUNE		V-389443,V-389444,V-396206	WP 06/13/23						06/13 01:10
11M111787.	CAL @ 0.5 PPB		B-34956	WP 06/13/23		Aqueous	1	1	624\8260	06/13 02:08
11M111788.	CAL @ 1 PPB		B-34956	WP 06/13/23		Aqueous	1	1	624\8260	06/13 02:27
11M111789.	CAL @ 5 PPB		B-34956	WP 06/13/23		Aqueous	1	1	624\8260	06/13 02:45
11M111790.	CAL @10 PPB		B-34956	WP 06/13/23		Aqueous	1	1	624\8260	06/13 03:04
11M111792.	CAL @ 20PPB		B-34956	WP 06/13/23		Aqueous	1	1	624\8260	06/13 03:42
11M111794.	CAL @ 50 PPB		B-34956	WP 06/13/23		Aqueous	1	1	624\8260	06/13 04:20
11M111796.	CAL @ 100 PPB		B-34956	WP 06/13/23		Aqueous	1	1	624\8260	06/13 04:57
11M111799.	CAL @ 250 PPB		B34956	WP 06/13/23		Aqueous	1	1	624\8260	06/13 05:54
11M111803.	CAL @ 500 PPB		B-34956	WP 06/13/23		Aqueous	1	1	624\8260	06/13 07:10
11M111809.	ICV	Bnf	V-397284	WP 06/13/23		Aqueous	1	1	624\8260	06/13 09:03
11M111811.	BLK	Bnf				Aqueous	1	1	624\8260	06/13 09:41

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Etn	Trap/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for eph
B8m	Blank 8000 series missing	Eto	Trap Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hh	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or epddp
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R18 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Ddlt
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt csv for init calibration chek rls	S6	600 series surrogate out
Cme	Endinn Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

1-1-11M112466

Instrument: GCMS_11Year: 2023
Analyst: sg

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
11M112466.	BFB TUNE		V-397862,V-389443,V-397827,V-398191	SG 06/26/23						06/26 07:27
11M112468.	CAL @ 20 PPB		OK	SG 06/26/23		Aqueous	1	1	624\8260	06/26 08:22
11M112471.	BLK-DI					Aqueous	1	1	624\8260	06/26 09:18
11M112472.	DAILY BLANK		OK,V-15140	SG 06/26/23		Methano	1	1	8260D	06/26 09:37
11M112473.	DAILY BLANK		OK	SG 06/26/23		Aqueous	1	1	624\8260	06/26 09:56
11M112474.	HCL					Aqueous	1	1	624\8260	06/26 10:15
11M112475.	AD38747-013(80uL)		RR-400uL	SG 06/26/23	VO-PA-FO82	Methano	1	10	8260D	06/26 10:33
11M112479.	AD38747-013(400u		OK	SG 06/26/23	VO-PA-FO82	Methano	1	2	8260D	06/26 11:50
11M112480.	MBS110097		OK MBS110097	SG 06/26/23		Methano	1	1	8260D	06/26 12:09
11M112481.	MBS110098		OK MBS110098	SG 06/26/23		Aqueous	1	1	624\8260	06/26 12:28
11M112482.	38798-003(50X)		RR-1X	SG 06/26/23		Aqueous	1	50	624\8260	06/26 12:47
11M112483.	AD38732-005(5X)	S8	2ND RUN	SG 06/26/23	VO-PAGAS82	Aqueous	1	5	8260D	06/26 13:06
11M112484.	38733-008(50X)		RR-5X	SG 06/26/23		Aqueous	1	50	624\8260	06/26 13:25
11M112485.	AD38732-006		OK	SG 06/26/23	VO-PAGAS82	Aqueous	1	1	8260D	06/26 13:44
11M112486.	AD38751-008		QC MBS110097	SG 06/27/23	VO-8260	Methano	1	1	8260D	06/26 14:03
11M112487.	AD38798-007		OK	SG 06/27/23	VO-8260	Aqueous	1	1	8260D	06/26 14:22
11M112488.	AD38798-003		OK MBS110098	SG 06/27/23	VO-8260	Aqueous	1	1	624\8260	06/26 14:41
11M112489.	AD38798-001		OK	SG 06/27/23	VO-8260	Aqueous	1	1	8260D	06/26 15:00
11M112490.	AD38798-002		OK	SG 06/27/23	VO-8260	Aqueous	1	1	8260D	06/26 15:19
11M112491.	AD38798-006		OK	SG 06/27/23	VO-8260	Aqueous	1	1	8260D	06/26 15:38
11M112492.	AD38798-004(MS:AM16M18		OK MBS110098	SG 06/27/23	VO-8260	Aqueous	1	1	624\8260	06/26 15:57
11M112493.	AD38798-005(MSD:M16M18		OK MBS110098	SG 06/27/23	VO-8260	Aqueous	1	1	624\8260	06/26 16:16
11M112494.	AD38753-002(80uL)		OK	SG 06/27/23	VOSTARS-82	Methano	1	10	8260D	06/26 16:35
11M112495.	AD38751-008(MS)		OK MBS110097	SG 06/27/23	VO-8260	Methano	1	1	8260D	06/26 16:54
11M112496.	AD38751-008(MSD)		OK MBS110097	SG 06/27/23	VO-8260	Methano	1	1	8260D	06/26 17:13
11M112497.	AD38790-004		RR-5g	SG 06/27/23	VO-8260	Methano	1	1	624\8260	06/26 17:32
11M112498.	AD38790-003		RR-5g	SG 06/27/23	VO-8260	Methano	1	1	8260D	06/26 17:51
11M112499.	AD38790-005		OK	SG 06/27/23	VO-8260	Methano	1	1	8260D	06/26 18:10
11M112500.	AD38790-006		OK	sg 06/28/23	VO-8260	Methano	1	1	8260D	06/26 18:29
11M112501.	AD38790-001		RR-5g	SG 06/27/23	VO-8260	Methano	1	1	624\8260	06/26 18:47
11M112502.	AD38790-002		OK	SG 06/27/23	VO-8260	Methano	1	1	8260D	06/26 19:06
11M112503.	BLK					Aqueous	1	1	624\8260	06/26 19:25

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Etn	Tcln/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for anh
B8m	Blank 8000 series missing	Eto	Tcln Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt csv for init calibration chek rls	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-371358

Prepared By: Revolus, Jean
Description: VOA ADD MIX
Prep Date: 4/22/2022
Expiration Date: 4/1/2023
Department: Organics
BatchNumber:
Concentration: 5000/25000 p
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 04/27/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
2889	1,2,4,5-TETRAMETHYLBENZENE	50 mg	NEAT	5000 ppm
14554	Cyclohexanone	250 mg	NEAT	25000 ppm
12762	p-Diethylbenzene	50 mg	NEAT	5000 ppm
14548	p-Ethyltoluene	50 mg	NEAT	5000 ppm
14375	Methyl Alcohol		neat neat	

Veritech Lot Number: V-371359

Prepared By: Revolus, Jean
Description: Voa Extra Add Mix
Prep Date: 4/22/2022
Expiration Date: 4/1/2023
Department: Organics
BatchNumber:
Concentration: 2000-20000 p
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 04/27/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12763	Isopropyl acetate	20 mg	NEAT	2000 ppm
13191	d-Camphor	200 mg	Neat	20000 ppm
14375	Methyl Alcohol		neat neat	
13195	Methyl methacrylate	20 mg	Neat	2000 ppm
13194	n-Butyl acrylate	20 mg	Neat	2000 ppm
13192	n-Amyl acetate	20 mg	NEAT	2000 ppm
14553	Ethyl methacrylate	20 mg	NEAT	2000 ppm
14552	Camphene	20 mg	NEAT	2000 ppm
14550	Butyl methacrylate	20 mg	NEAT	2000 ppm
14549	Ethyl acetate	20 mg	NEAT	2000 ppm

Veritech Lot Number: V-371360

Prepared By: Revolus, Jean
Description: Voa Extra Add Mix(2nd Source)
Prep Date: 4/26/2022
Expiration Date: 10/23/2022
Department: Organics
BatchNumber:
Concentration: 2000-20000 p
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 04/27/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12763	Isopropyl acetate	20 mg	NEAT	2000 ppm
13194	n-Butyl acrylate	20 mg	Neat	2000 ppm
13191	d-Camphor	200 mg	Neat	20000 ppm
13192	n-Amyl acetate	20 mg	NEAT	2000 ppm
14375	Methyl Alcohol		neat neat	
13195	Methyl methacrylate	20 mg	Neat	2000 ppm
14553	Ethyl methacrylate	20 mg	NEAT	2000 ppm
14552	Camphene	20 mg	NEAT	2000 ppm
14550	Butyl methacrylate	20 mg	NEAT	2000 ppm
14549	Ethyl acetate	20 mg	NEAT	2000 ppm

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-371361

Prepared By: Revolus, Jean
Description: VOA ADD MIX(2nd Sources)
Prep Date: 4/22/2022
Expiration Date: 4/1/2023
Department: Organics
BatchNumber:
Concentration: 5000/25000 p
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 04/27/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
2889	1,2,4,5-TETRAMETHYLBENZENE	50 mg	NEAT	5000 ppm
12762	p-Diethylbenzene	50 mg	NEAT	5000 ppm
14554	Cyclohexanone	250 mg	NEAT	25000 ppm
14548	p-Ethyltoluene	50 mg	NEAT	5000 ppm
14375	Methyl Alcohol		neat neat	

Veritech Lot Number: V-382492

Prepared By: Revolus, Jean
Description: Ethyl ether/Furan Mix
Prep Date: 10/24/2022
Expiration Date: 10/24/2023
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: jean
ApproveDate: 10/24/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14880	Methanol	10 ml	neat neat	
13987	Ethyl Ether	50 mg	NEAT	5000 ppm
11587	Furan	50 mg	NEAT neat	5000 ppm

Veritech Lot Number: V-382493

Prepared By: Revolus, Jean
Description: Ethyl ether/Furan Mix(2nd Sources)
Prep Date: 10/24/2022
Expiration Date: 10/24/2023
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: jean
ApproveDate: 10/24/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
13987	Ethyl Ether	50 mg	NEAT	5000 ppm
11587	Furan	50 mg	NEAT neat	5000 ppm
14880	Methanol	10 ml	neat neat	

Veritech Lot Number: V-389443

Prepared By: Previlon, Wilner
Description: VOA WORKING INT/SURR MIX
Prep Date: 2/13/2023
Expiration Date: 2/12/2024
Department: Organics
BatchNumber:
Concentration: 150 ppm
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 02/15/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14606	Methanol	88 ml	neat neat	
14301	8260A Surrogate Mix	6 ml	2500 ppm	150 ppm
13052	Internal Standard Mix	6 ml	2500 ppm	150 ppm

Veritech Lot Number: V-389444

Prepared By: Previlon, Wilner
Description: BFB Tune Mix
Prep Date: 2/13/2023
Expiration Date: 8/13/2023
Department: Organics
BatchNumber:
Concentration: 50 ppm
Final Volume: 1.5 ml
ApprovedBy: akmal
ApproveDate: 02/15/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-389443	VOA WORKING INT/SURR MIX	500 ul	150 ppm	50 ppm
14606	Methanol	1000 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-394817

Prepared By: Previlon, Wilner
Description: 200ppm VOA Working Std
Prep Date: 4/25/2023
Expiration Date: 9/21/2023
Department: Organics
BatchNumber:
Concentration: VARIOUS pp
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 05/08/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14880	Methanol	220 ul	neat neat	neat
14568	502.2 CALIBRATION MIX # 1	100 ul	2000 ppm	200 ppm
15230	502.2 Cal2000 Mega Mix	100 ul	2000 ppm	200 ppm
14628	EPA 8260 CAL MIX 2	100 ul	2000 ppm	200 ppm
15170	Custom Voc Standard	100 ul	VARIOUS	various ppm
14490	tert-Amyl Methyl Ether Standard	100 ul	2000 ppm	200 ppm
V-371358	VOA ADD MIX	40 ul	5000/25000 p	various ppm
V-382492	Ethyl ether/Furan Mix	40 ul	5000 ppm	200 ppm
V-371359	Voa Extra Add Mix	100 ul	2000-20000 p	200 ppm
13998	Ethyl-tert-Butyl Ether(ETBE)	100 ul	2000 ppm	200 ppm

Veritech Lot Number: V-394819

Prepared By: Previlon, Wilner
Description: 20ppm VOA Working Std
Prep Date: 4/25/2023
Expiration Date: 9/21/2023
Department: Organics
BatchNumber:
Concentration: VARIOUS pp
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 05/08/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15141	Methanol	900 ul	Neat neat	neat
V-394817	200ppm VOA Working Std	100 ul	VARIOUS pp	200 ppm

Veritech Lot Number: V-394829

Prepared By: Previlon, Wilner
Description: 20ppm Freon VOA Working Std
Prep Date: 4/25/2023
Expiration Date: 10/25/2023
Department: Organics
BatchNumber:
Concentration: VARIOUS pp
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 05/08/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14606	Methanol	900 ul	neat neat	neat
14828	Chlorodifluoromethane	100 ul	200 ppm	200 ppm

Veritech Lot Number: V-396205

Prepared By: Previlon, Wilner
Description: 200ppm VOA Working Std
Prep Date: 5/25/2023
Expiration Date: 9/21/2023
Department: Organics
BatchNumber:
Concentration: VARIOUS pp
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 06/01/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14880	Methanol	220 ul	neat neat	neat
15229	502.2 Calibration Mix #1	100 ul	2000 ppm	200 ppm
15246	502.2 Cal 2000 Mega Mix	100 ul	2000 ppm	200 ppm
15259	8260 Additions Mix	100 ul	2000 ppm	200 ppm
15170	Custom Voc Standard	100 ul	VARIOUS	various ppm
15252	tert-Amyl Methyl Ether Standard	100 ul	2000 ppm	200 ppm
V-371358	VOA ADD MIX	40 ul	5000/25000 p	various ppm
V-371359	Voa Extra Add Mix	100 ul	2000-20000 p	200 ppm
V-382492	Ethyl ether/Furan Mix	40 ul	5000 ppm	200 ppm
14564	Ethyl-tert-Butyl Ether(ETBE)	100 ul	2000 ppm	200 ppm

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-396206

Prepared By: Previlon, Wilner
Department: Organics
ApprovedBy: akmal
Description: MBS
BatchNumber:
ApproveDate: 06/01/23
Prep Date: 5/25/2023
Concentration: 100 ppm
Checked: Yes
Expiration Date: 9/21/2023
Final Volume: 1 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14606	Methanol	610 ul	neat neat	neat neat
14586	502.2 CALIBRATION MIX # 1(2ndLot)	50 ul	2000 ppm	100 ppm
15230	502.2 Cal2000 Mega Mix	50 ul	2000 ppm	100 ppm
14628	EPA 8260 CAL MIX 2	50 ul	2000 ppm	100 ppm
15171	Custom VOC Standard	50 ul	VARIOUS	various ppm
14565	tert-Amyl Methyl Ether Standard	50 ul	2000 ppm	100 ppm
V-371361	VOA ADD MIX(2nd Sources)	20 ul	5000/25000 p	various ppm
V-371360	Voa Extra Add Mix(2nd Source)	50 ul	2000-20000 p	100-1000 pp
V-382493	Ethyl ether/Furan Mix(2nd Sources)	20 ul	5000 ppm	100 ppm
14564	Ethyl-tert-Butyl Ether(ETBE)	50 ul	2000 ppm	100 ppm

Veritech Lot Number: V-397275

Prepared By: Previlon, Wilner
Department: Organics
ApprovedBy: akmal
Description: 624/8260 CAL @ 250 PPB
BatchNumber: B-34956
ApproveDate: 06/23/23
Prep Date: 6/13/2023
Concentration: VARIOUS ppb
Checked: Yes
Expiration Date: 6/20/2023
Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-396205	200ppm VOA Working Std	125 ul	VARIOUS pp	250 ppb
12833	P&T Water	100 ml	NEAT neat	
14828	Chlorodifluoromethane	125 ul	200 ppm	250 ppb

Veritech Lot Number: V-397276

Prepared By: Previlon, Wilner
Department: Organics
ApprovedBy: akmal
Description: 624/8260 CAL @ 100 PPB
BatchNumber: B-34956
ApproveDate: 06/23/23
Prep Date: 6/13/2023
Concentration: VARIOUS ppb
Checked: Yes
Expiration Date: 6/20/2023
Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-396205	200ppm VOA Working Std	50 ul	VARIOUS pp	100 ppb
12833	P&T Water	100 ml	NEAT neat	
14828	Chlorodifluoromethane	50 ul	200 ppm	100 ppb

Veritech Lot Number: V-397277

Prepared By: Previlon, Wilner
Department: Organics
ApprovedBy: akmal
Description: 624/8260 CAL @ 50 PPB
BatchNumber: B-34956
ApproveDate: 06/23/23
Prep Date: 6/13/2023
Concentration: VARIOUS ppb
Checked: Yes
Expiration Date: 6/20/2023
Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-396205	200ppm VOA Working Std	25 ul	VARIOUS pp	50 ppb
12833	P&T Water	100 ml	NEAT neat	
14828	Chlorodifluoromethane	25 ul	200 ppm	50 ppb

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-397278

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 20 PPB
Prep Date: 6/13/2023
Expiration Date: 6/20/2023
Department: Organics
BatchNumber: B-34956
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 06/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-396205	200ppm VOA Working Std	10 ul	VARIOUS pp	20 ppb
12833	P&T Water	100 ml	NEAT neat	
14828	Chlorodifluoromethane	10 ul	200 ppm	20 ppb

Veritech Lot Number: V-397279

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 10 PPB
Prep Date: 6/13/2023
Expiration Date: 6/20/2023
Department: Organics
BatchNumber: B-34956
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 06/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-394819	20ppm VOA Working Std	50 ul	VARIOUS pp	10 ppb
12833	P&T Water	100 ml	NEAT neat	
V-394829	20ppm Freon VOA Working Std	50 ul	VARIOUS pp	10 ppb

Veritech Lot Number: V-397280

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 5 PPB
Prep Date: 6/13/2023
Expiration Date: 6/20/2023
Department: Organics
BatchNumber: B-34956
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 06/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-394819	20ppm VOA Working Std	25 ul	VARIOUS pp	5 ppb
12833	P&T Water	100 ml	NEAT neat	
V-394829	20ppm Freon VOA Working Std	25 ul	VARIOUS pp	5 ppb

Veritech Lot Number: V-397281

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 1 PPB
Prep Date: 6/13/2023
Expiration Date: 6/20/2023
Department: Organics
BatchNumber: B-34956
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 06/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-394819	20ppm VOA Working Std	5 ul	VARIOUS pp	1 ppb
12833	P&T Water	100 ml	NEAT neat	
V-394829	20ppm Freon VOA Working Std	5 ul	VARIOUS pp	1 ppb

Veritech Lot Number: V-397282

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 0.5 PPB
Prep Date: 6/13/2023
Expiration Date: 6/20/2023
Department: Organics
BatchNumber: B-34956
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 06/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-394819	20ppm VOA Working Std	2.5 ul	VARIOUS pp	0.5 ppb
12833	P&T Water	100 ml	NEAT neat	
V-394829	20ppm Freon VOA Working Std	2.5 ul	VARIOUS pp	0.5 ppb

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-397283

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 500 PPB
Prep Date: 6/13/2023
Expiration Date: 6/20/2023
Department: Organics
BatchNumber: B-34956
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 06/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-396205	200ppm VOA Working Std	250 ul	VARIOUS pp	500 ppb
12833	P&T Water	100 ml	NEAT neat	
14828	Chlorodifluoromethane	250 ul	200 ppm	500 ppb

Veritech Lot Number: V-397284

Prepared By: Previlon, Wilner
Description: ICV CAL @ 20 PPB
Prep Date: 6/13/2023
Expiration Date: 6/20/2023
Department: Organics
BatchNumber:
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 06/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-396206	MBS	20 ul	100 ppm	20 ppb
12833	P&T Water	100 ml	NEAT neat	neat
14624	Chlorodifluoromethane	10 ul	200 ppm	20 ppb

Veritech Lot Number: V-397827

Prepared By: Previlon, Wilner
Description: MBS
Prep Date: 6/20/2023
Expiration Date: 9/21/2023
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 06/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14606	Methanol	610 ul	neat neat	neat neat
14586	502.2 CALIBRATION MIX # 1(2ndLot)	50 ul	2000 ppm	100 ppm
15230	502.2 Cal2000 Mega Mix	50 ul	2000 ppm	100 ppm
14628	EPA 8260 CAL MIX 2	50 ul	2000 ppm	100 ppm
15171	Custom VOC Standard	50 ul	VARIOUS	various ppm
14565	tert-Amyl Methyl Ether Standard	50 ul	2000 ppm	100 ppm
V-371361	VOA ADD MIX(2nd Sources)	20 ul	5000/25000 p	various ppm
V-371360	Voa Extra Add Mix(2nd Source)	50 ul	2000-20000 p	100-1000 pp
V-382493	Ethyl ether/Furan Mix(2nd Sources)	20 ul	5000 ppm	100 ppm
14564	Ethyl-tert-Butyl Ether(ETBE)	50 ul	2000 ppm	100 ppm

Veritech Lot Number: V-397969

Prepared By: Revolus, Jean
Description: Voa Extra Add Mix
Prep Date: 6/22/2023
Expiration Date: 6/22/2024
Department: Organics
BatchNumber:
Concentration: 2000-20000 p
Final Volume: 10 ml
ApprovedBy: jean
ApproveDate: 06/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
13192	n-Amyl acetate	20 mg	NEAT	2000 ppm
13194	n-Butyl acrylate	20 mg	Neat	2000 ppm
13195	Methyl methacrylate	20 mg	Neat	2000 ppm
15378	Isoprpyl acetane	20 mg	NEAT	2000 ppm
14553	Ethyl methacrylate	20 mg	NEAT	2000 ppm
15375	Camphene	20 mg	NEAT	2000 ppm
15374	d-Camphor	200 mg	NEAT	20000 ppm
14550	Butyl methacrylate	20 mg	NEAT	2000 ppm
14549	Ethyl acetate	20 mg	NEAT	2000 ppm
15140	Methanol	10 ml	Neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-397973

Prepared By: Revolus, Jean
Description: VOA ADD MIX
Prep Date: 6/22/2023
Expiration Date: 6/22/2024
Department: Organics
BatchNumber:
Concentration: 5000/25000 p
Final Volume: 10 ml
ApprovedBy: jean
ApproveDate: 06/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
2889	1,2,4,5-TETRAMETHYLBENZENE	50 mg	NEAT	5000 ppm
15373	p-Diethylbenzene	50 mg	NEAT	5000 ppm
15377	Cyclohexanone	250 mg	NEAT	25000 ppm
14548	p-Ethyltoluene	50 mg	NEAT	5000 ppm
15140	Methanol		Neat neat	

Veritech Lot Number: V-397975

Prepared By: Revolus, Jean
Description: Ethyl ether/Furan Mix
Prep Date: 6/22/2023
Expiration Date: 6/22/2024
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: jean
ApproveDate: 06/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
13987	Ethyl Ether	50 mg	NEAT	5000 ppm
15140	Methanol	10 ml	Neat neat	
11587	Furan	50 mg	NEAT neat	5000 ppm

Veritech Lot Number: V-398125

Prepared By: Previlon, Wilner
Description: 200ppm VOA Working Std
Prep Date: 6/22/2023
Expiration Date: 8/7/2023
Department: Organics
BatchNumber:
Concentration: VARIOUS pp
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 06/27/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14880	Methanol	220 ul	neat neat	neat
15229	502.2 Calibration Mix #1	100 ul	2000 ppm	200 ppm
15246	502.2 Cal 2000 Mega Mix	100 ul	2000 ppm	200 ppm
15259	8260 Additions Mix	100 ul	2000 ppm	200 ppm
15170	Custom Voc Standard	100 ul	VARIOUS	various ppm
15227	tert-Amyl Methyl Ether	100 ul	2000 ppm	200 ppm
V-397973	VOA ADD MIX	40 ul	5000/25000 p	various ppm
V-397975	Ethyl ether/Furan Mix	40 ul	5000 ppm	200 ppm
V-397969	Voa Extra Add Mix	100 ul	2000-20000 p	200 ppm
14564	Ethyl-tert-Butyl Ether(ETBE)	100 ul	2000 ppm	200 ppm

Veritech Lot Number: V-398191

Prepared By: Goring, Shawn
Description: CAL @ 20 PPB
Prep Date: 6/26/2023
Expiration Date: 7/3/2023
Department: Organics
BatchNumber:
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 06/27/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-398125	200ppm VOA Working Std	10 ul	VARIOUS pp	20 ppb
12833	P&T Water	100 ml	NEAT neat	
14828	Chlorodifluoromethane	10 ul	200 ppm	20 ppb

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 2889

Description
1,2,4,5-TETRAMETHYLBENZENE

ApprovedBy: jean
ApproveDate: 12/18/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Acros Organics	409390050	A0214190	11/20/07	11/30/27	Revolus, Jean	1	1ML	NEAT	

Veritech Control/Receipt Number: 11587

Description
Furan

ApprovedBy: akmal
ApproveDate: 04/05/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	185922	SHBG4510V	04/05/18	08/31/25	Hamid, Akmal	1	5ML	NEAT	NEAT

Veritech Control/Receipt Number: 12762

Description
p-Diethylbenzene

ApprovedBy: akmal
ApproveDate: 09/19/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ChemService	N-12771-100MG	8949700	09/19/19	08/31/23	Revolus, Jean	4	100m	NEAT	

Veritech Control/Receipt Number: 12763

Description
Isopropyl acetate

ApprovedBy: akmal
ApproveDate: 10/07/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ChemService	N-12223-1G	8816500	09/19/19	04/30/24	Revolus, Jean	1	1g	NEAT	

Veritech Control/Receipt Number: 12833

Description
P&T Water

ApprovedBy: akmal
ApproveDate: 10/16/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Veritech	N/A	N/A	10/14/19	10/14/25	Goring, Shawn	1	N/A	NEAT	NEAT

Veritech Control/Receipt Number: 13052

Description
Internal Standard Mix

ApprovedBy: jean
ApproveDate: 02/13/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Restek	30241	A0156714	02/11/20	01/31/25	Revolus, Jean	12	1ml	2500	PPM

Veritech Control/Receipt Number: 13191

Description
d-Camphor

ApprovedBy: jean
ApproveDate: 04/17/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-11556-100MG	9259300	04/17/20	12/31/25	Revolus, Jean	5	100m	Neat	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 13192

Description: n-Amyl acetate

ApprovedBy: jean
ApproveDate: 04/17/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-12508-1G	9676300	04/17/20	03/31/26	Revolus, Jean	1	1g	NEAT	

Veritech Control/Receipt Number: 13194

Description: n-Butyl acrylate

ApprovedBy: jean
ApproveDate: 04/17/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-12513-1G	9919500	04/17/20	01/31/26	Revolus, Jean	1	1g	Neat	

Veritech Control/Receipt Number: 13195

Description: Methyl methacrylate

ApprovedBy: jean
ApproveDate: 04/17/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-12443-1G	9827400	04/17/20	03/30/26	Revolus, Jean	1	1g	Neat	

Veritech Control/Receipt Number: 13987

Description: Ethyl Ether

ApprovedBy: akmal
ApproveDate: 06/09/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-11897-1G	11096100	05/25/21	12/31/25	Revolus, Jean	1	1g	NEAT	

Veritech Control/Receipt Number: 13998

Description: Ethyl-tert-Butyl Ether(ETBE)

ApprovedBy: akmal
ApproveDate: 06/16/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Restek	30628	A0172879	06/16/21	05/31/26	Hamid, Akmal	6	1ML	2000	PPM

Veritech Control/Receipt Number: 14301

Description: 8260A Surrogate Mix

ApprovedBy: jean
ApproveDate: 11/10/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Restek	30240	A0175588	11/10/21	08/31/26	Revolus, Jean	20	1ml	2500	PPM

Veritech Control/Receipt Number: 14375

Description: Methyl Alcohol

ApprovedBy: akmal
ApproveDate: 12/28/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Tedia	MP1924-002	21080065	12/27/21	04/01/23	Burwell, John	42	1L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14490

Description
tert-Amyl Methyl Ether Standard

ApprovedBy: akmal
ApproveDate: 03/23/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Restek	30629	A0182802	03/18/22	03/31/27	Hamid, Akmal	10	1ML	2000	PPM

Veritech Control/Receipt Number: 14548

Description
p-Ethyltoluene

ApprovedBy: jean
ApproveDate: 05/01/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CHEMSERVICE	N-12776-1G	12503700	04/12/22	12/31/25	Revolus, Jean	1	1g	NEAT	

Veritech Control/Receipt Number: 14549

Description
Ethyl acetate

ApprovedBy: jean
ApproveDate: 05/01/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CHEMSERVICE	N-11881-1G	12841300	04/12/22	11/30/24	Revolus, Jean	1	1g	NEAT	

Veritech Control/Receipt Number: 14550

Description
Butyl methacrylate

ApprovedBy: jean
ApproveDate: 05/01/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CHEMSERVICE	N-11371-1G	12981700	04/12/22	02/28/29	Revolus, Jean	1	1g	NEAT	

Veritech Control/Receipt Number: 14552

Description
Camphene

ApprovedBy: jean
ApproveDate: 05/01/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CHEMSERVICE	N-11395-250MG	13119400	04/12/22	04/30/27	Revolus, Jean	1	0.25g	NEAT	

Veritech Control/Receipt Number: 14553

Description
Ethyl methacrylate

ApprovedBy: jean
ApproveDate: 05/01/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CHEMSERVICE	N-11903-1G	12985900	04/12/22	02/28/26	Revolus, Jean	1	1g	NEAT	

Veritech Control/Receipt Number: 14554

Description
Cyclohexanone

ApprovedBy: jean
ApproveDate: 05/01/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CHEMSERVICE	N-11531-1G	13043700	04/19/22	05/31/23	Revolus, Jean	1	1g	NEAT	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14564

Description: Ethyl-tert-Butyl Ether(ETBE)

ApprovedBy: akmal
ApproveDate: 05/06/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
RESTEK	30628	A0179423	05/02/22	12/31/26	Hamid, Akmal	6	1ML	2000	PPM

Veritech Control/Receipt Number: 14565

Description: tert-Amyl Methyl Ether Standard

ApprovedBy: akmal
ApproveDate: 05/06/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
RESTEK	30629	A0182802	05/02/22	03/31/27	Hamid, Akmal	6	1ML	2000	PPM

Veritech Control/Receipt Number: 14568

Description: 502.2 CALIBRATION MIX # 1

ApprovedBy: akmal
ApproveDate: 05/06/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
RESTEK	30042	A0180020	05/02/22	12/31/28	Hamid, Akmal	5	1 ML	2000	PPM

Veritech Control/Receipt Number: 14586

Description: 502.2 CALIBRATION MIX # 1(2ndLot)

ApprovedBy: akmal
ApproveDate: 05/11/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Restek	30042	A0184452	05/11/22	12/31/28	Hamid, Akmal	5	1ML	2000	PPM

Veritech Control/Receipt Number: 14606

Description: Methanol

ApprovedBy: jean
ApproveDate: 06/07/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
EMD	MX0482-6	60049	05/26/22	05/25/26	Lopez, Jose	49	1L	neat	neat

Veritech Control/Receipt Number: 14624

Description: Chlorodifluoromethane

ApprovedBy: jean
ApproveDate: 06/07/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ACCUSTANDAR	M-REF-03	219081587	06/03/22	08/19/31	Revolus, Jean	10	1mL	200	PPM

Veritech Control/Receipt Number: 14628

Description: EPA 8260 CAL MIX 2

ApprovedBy: jean
ApproveDate: 06/08/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SUPELCO	46831-U	LRAD2512	06/07/22	05/31/25	Revolus, Jean	5	1mL	2000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14828

Description: Chlorodifluoromethane

ApprovedBy: akmal
ApproveDate: 09/19/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ACCUSTANDAR	M-REF-03	221081279	09/16/22	08/19/31	Revolus, Jean	10	1ml	200	PPM

Veritech Control/Receipt Number: 14880

Description: Methanol

ApprovedBy: jean
ApproveDate: 10/13/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco/EMD	MX0482-6	62126	10/12/22	10/11/27	Lopez, Jose	36	1L	neat	neat

Veritech Control/Receipt Number: 15140

Description: Methanol

ApprovedBy: akmal
ApproveDate: 03/03/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco/EMD	MX0482	62126	03/02/23	03/01/28	Lopez, Jose	30	1L	Neat	Neat

Veritech Control/Receipt Number: 15141

Description: Methanol

ApprovedBy: akmal
ApproveDate: 03/03/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco/EMD	MX0482	22080306	03/02/23	03/01/28	Lopez, Jose	6	1L	Neat	Neat

Veritech Control/Receipt Number: 15170

Description: Custom Voc Standard

ApprovedBy: jean
ApproveDate: 03/24/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ACCUSTANDAR	S-16418	223031318	03/24/23	09/21/23	Revolus, Jean	5	1ml	VARIOU	

Veritech Control/Receipt Number: 15171

Description: Custom VOC Standard

ApprovedBy: jean
ApproveDate: 03/24/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ACCUSTANDAR	S-16418	223031314	03/24/23	09/21/23	Revolus, Jean	5	1ml	VARIOU	

Veritech Control/Receipt Number: 15227

Description: tert-Amyl Methyl Ether

ApprovedBy: jean
ApproveDate: 04/24/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
RESTEK	30629	A0191192	04/07/23	11/30/27	Revolus, Jean	4	1ml	2000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15229

Description: 502.2 Calibration Mix #1

ApprovedBy: jean
ApproveDate: 04/24/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
RESTEK	30042	A0192488	04/07/23	08/31/29	Revolus, Jean	10	1ml	2000	PPM

Veritech Control/Receipt Number: 15230

Description: 502.2 Cal2000 Mega Mix

ApprovedBy: jean
ApproveDate: 04/24/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
RESTEK	30431	A0188935	04/07/23	08/31/24	Revolus, Jean	10	1ml	2000	PPM

Veritech Control/Receipt Number: 15246

Description: 502.2 Cal 2000 Mega Mix

ApprovedBy: akmal
ApproveDate: 04/28/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Restek	30431	A0196706	04/28/23	04/30/25	Hamid, Akmal	5	1ML	2000	PPM

Veritech Control/Receipt Number: 15252

Description: tert-Amyl Methyl Ether Standard

ApprovedBy: akmal
ApproveDate: 05/03/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
RESTEK	30629	A0197211	04/27/23	04/30/23	Revolus, Jean	6	1ml	2000	PPM

Veritech Control/Receipt Number: 15259

Description: 8260 Additions Mix

ApprovedBy: jean
ApproveDate: 05/05/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ACCUSTANDAR	M-8260-ADD-10X	223041101	05/05/23	08/07/23	Revolus, Jean	2	1ml	2000	PPM

Veritech Control/Receipt Number: 15373

Description: p-Diethylbenzene

ApprovedBy: jean
ApproveDate: 06/23/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CHEM SERVICE	N-12771-100MG	14490400	06/22/23	12/31/26	Revolus, Jean	4	100m	NEAT	

Veritech Control/Receipt Number: 15374

Description: d-Camphor

ApprovedBy: jean
ApproveDate: 06/23/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CHEM SERVICE	N-11556-100MG	9259300	06/22/23	12/31/25	Revolus, Jean	3	100 m	NEAT	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15375

Description
Camphene

ApprovedBy: jean
ApproveDate: 06/23/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CHEM SERVICE	N-11395-250MG	13119400	06/22/23	04/30/27	Revolus, Jean	3	250 m	NEAT	

Veritech Control/Receipt Number: 15377

Description
Cyclohexanone

ApprovedBy: jean
ApproveDate: 06/23/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CHEM SERVICE	N-11531-1G	14388800	06/22/23	06/30/27	Revolus, Jean	1	1g	NEAT	

Veritech Control/Receipt Number: 15378

Description
Isoprpyl acetane

ApprovedBy: jean
ApproveDate: 06/23/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CHEM SERVICE	N-12223-G	13779100	06/22/23	12/31/25	Revolus, Jean	1	1g	NEAT	

GC/MS Base Neutral/Acid Extractable Data

GC/MS Base Neutral/Acid Extractable Data
QC Summary

FORM2

Surrogate Recovery

Method: EPA 8270E

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column1 S5 Recov	Column1 S6 Recov
5M124294.D	WMB109448	A	06/28/23 15:58	1		NA	NA	83	86	NA	101
5M124301.D	AD38798-001	A	06/28/23 19:13	1		NA	NA	92	95	NA	111
5M124302.D	AD38798-003	A	06/28/23 19:38	1		NA	NA	58	62	NA	71
5M124293.D	WMB109448(MS)	A	06/28/23 15:34	1		NA	NA	96	97	NA	106
5M124298.D	AD38798-002	A	06/28/23 18:01	1		NA	NA	62	70	NA	82
5M124299.D	AD38798-004(MS:AD38	A	06/28/23 18:25	1		NA	NA	92	94	NA	101
5M124300.D	AD38798-005(MSD:AD3	A	06/28/23 18:49	1		NA	NA	87	92	NA	99

Flags: SD=Surrogate diluted out

*=Surrogate out

Method: EPA 8270E

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	10-131
S2=Phenol-d5	100	10-133
S3=Nitrobenzene-d5	50	19-163
S4=2-Fluorobiphenyl	50	23-154
S5=2,4,6-Tribromophenol	100	20-180
S6=Terphenyl-d14	50	30-184

FORM2

Surrogate Recovery

Method: EPA 8270E

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column1 S5 Recov	Column1 S6 Recov
5M124294.D	WMB109448	A	06/28/23 15:58	1		52	35	83	86	90	101
5M124298.D	AD38798-002	A	06/28/23 18:01	1		36	24	62	70	67	82
5M124299.D	AD38798-004(MS:AD38	A	06/28/23 18:25	1		43	31	92	94	102	101
5M124300.D	AD38798-005(MSD:AD3	A	06/28/23 18:49	1		45	30	87	92	102	99
5M124303.D	AD38798-006	A	06/28/23 20:02	1		50	33	87	92	92	106
5M124304.D	AD38798-007	A	06/28/23 20:25	1		40	28	78	83	81	101
5M124293.D	WMB109448(MS)	A	06/28/23 15:34	1		56	39	96	97	110	106

Flags: SD=Surrogate diluted out

*=Surrogate out

Method: EPA 8270E

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	10-131
S2=Phenol-d5	100	10-133
S3=Nitrobenzene-d5	50	19-163
S4=2-Fluorobiphenyl	50	23-154
S5=2,4,6-Tribromophenol	100	20-180
S6=Terphenyl-d14	50	30-184

Form3
Recovery Data Laboratory Limits
QC Batch: WMB109448

Data File | Sample ID: | Analysis Date

Spike or Dup: 5M124293.D | WMB109448(MS) | 6/28/2023 3:34:00 PM

Non Spike(If applicable):

Inst Blank(If applicable):

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	52.569	0	100	53	16	112
Pyridine	1	64.0577	0	100	64	10	131
N-Nitrosodimethylamine	1	62.2746	0	100	62	24	118
Benzaldehyde	1	57.6609	0	100	58	10	103
Aniline	1	97.8137	0	100	98	10	149
Pentachloroethane	1	66.4785	0	100	66	10	155
bis(2-Chloroethyl)ether	1	80.3758	0	100	80	42	118
Phenol	1	42.1728	0	100	42	19	121
2-Chlorophenol	1	84.4718	0	100	84	50	123
N-Decane	1	57.3237	0	100	57	25	129
1,3-Dichlorobenzene	1	70.9391	0	100	71	13	126
1,4-Dichlorobenzene	1	73.2672	0	100	73	13	133
1,2-Dichlorobenzene	1	74.7819	0	100	75	16	129
Benzyl alcohol	1	81.2655	0	100	81	33	150
bis(2-chloroisopropyl)ether	1	69.0529	0	100	69	28	119
2-Methylphenol	1	81.2426	0	100	81	50	128
Acetophenone	1	95.3897	0	100	95	47	132
Hexachloroethane	1	71.4334	0	100	71	19	132
N-Nitroso-di-n-propylamine	1	84.7152	0	100	85	46	127
3&4-Methylphenol	1	75.4766	0	100	75	53	129
Nitrobenzene	1	87.8966	0	100	88	45	134
Isophorone	1	80.5189	0	100	81	48	121
2-Nitrophenol	1	95.8954	0	100	96	55	143
2,4-Dimethylphenol	1	88.7865	0	100	89	46	134
Benzoic Acid	1	52.1196	0	100	52	14	216
bis(2-Chloroethoxy)methane	1	88.8319	0	100	89	47	131
2,4-Dichlorophenol	1	94.132	0	100	94	59	134
1,2,4-Trichlorobenzene	1	79.2954	0	100	79	32	135
Naphthalene	1	79.0629	0	100	79	12	146
4-Chloroaniline	1	121.0114	0	100	121	10	161
Hexachlorobutadiene	1	77.6294	0	100	78	24	136
Caprolactam	1	44.8061	0	100	45	10	155
4-Chloro-3-methylphenol	1	99.6496	0	100	100	62	142
2-Methylnaphthalene	1	93.9312	0	100	94	34	156
1-Methylnaphthalene	1	95.3157	0	100	95	44	149
1,1'-Biphenyl	1	92.7695	0	100	93	51	137
1,2,4,5-Tetrachlorobenzene	1	88.9114	0	100	89	52	131
Hexachlorocyclopentadiene	1	96.5191	0	100	97	24	137
2,4,6-Trichlorophenol	1	102.282	0	100	102	66	142
2,4,5-Trichlorophenol	1	100.2862	0	100	100	65	143
2-Chloronaphthalene	1	88.6485	0	100	89	51	129
1,4-Dimethylnaphthalene	1	91.7029	0	100	92	50	137
Diphenyl Ether	1	98.2521	0	100	98	55	134
2-Nitroaniline	1	102.8623	0	100	103	45	165
Coumarin	1	100.1945	0	100	100	10	194
Acenaphthylene	1	101.6718	0	100	102	46	130
Dimethylphthalate	1	94.5198	0	100	95	10	177
2,6-Dinitrotoluene	1	99.0902	0	100	99	55	135
Acenaphthene	1	91.0286	0	100	91	48	136
3-Nitroaniline	1	110.0488	0	100	110	24	169
2,4-Dinitrophenol	1	112.2329	0	100	112	42	160
Dibenzofuran	1	96.0885	0	100	96	50	147
2,4-Dinitrotoluene	1	101.9045	0	100	102	55	136
4-Nitrophenol	1	46.8274	0	100	47	27	141
2,3,4,6-Tetrachlorophenol	1	100.9337	0	100	101	59	141
Fluorene	1	95.8065	0	100	96	53	132
4-Chlorophenyl-phenylether	1	93.7816	0	100	94	58	133
Diethylphthalate	1	97.267	0	100	97	25	152
4-Nitroaniline	1	105.7068	0	100	106	33	166
Atrazine	1	99.4112	0	100	99	21	152
4,6-Dinitro-2-methylphenol	1	111.9924	0	100	112	58	158

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB109448

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	**1**	**79.0169**	**0**	**100**	**79**	**44**	**122**
1,2-Diphenylhydrazine	1	98.3178	0	100	98	53	140
4-Bromophenyl-phenylether	**1**	**100.3373**	**0**	**100**	**100**	**60**	**139**
Hexachlorobenzene	**1**	**95.0045**	**0**	**100**	**95**	**58**	**132**
N-Octadecane	1	130.1221	0	100	130	53	157
Pentachlorophenol	**1**	**105.6174**	**0**	**100**	**106**	**64**	**176**
Phenanthrene	**1**	**97.2717**	**0**	**100**	**97**	**56**	**136**
Anthracene	**1**	**97.769**	**0**	**100**	**98**	**59**	**131**
Carbazole	**1**	**105.7534**	**0**	**100**	**106**	**53**	**159**
Di-n-butylphthalate	**1**	**112.2835**	**0**	**100**	**112**	**60**	**140**
Fluoranthene	**1**	**102.7664**	**0**	**100**	**103**	**61**	**139**
Pyrene	**1**	**97.4967**	**0**	**100**	**97**	**58**	**133**
Benzidine	1	30.8742	0	100	31	10	43
Butylbenzylphthalate	**1**	**109.5855**	**0**	**100**	**110**	**61**	**145**
3,3'-Dichlorobenzidine	**1**	**110.6339**	**0**	**100**	**111**	**10**	**145**
Benzo[a]anthracene	**1**	**95.2946**	**0**	**100**	**95**	**56**	**122**
Chrysene	**1**	**95.5789**	**0**	**100**	**96**	**58**	**136**
bis(2-Ethylhexyl)phthalate	**1**	**104.1143**	**0**	**100**	**104**	**59**	**145**
Di-n-octylphthalate	**1**	**102.1364**	**0**	**100**	**102**	**57**	**147**
Benzo[b]fluoranthene	**1**	**106.32**	**0**	**100**	**106**	**58**	**146**
Benzo[k]fluoranthene	**1**	**105.6739**	**0**	**100**	**106**	**57**	**140**
Benzo[a]pyrene	**1**	**111.0475**	**0**	**100**	**111**	**55**	**135**
Indeno[1,2,3-cd]pyrene	**1**	**104.8272**	**0**	**100**	**105**	**59**	**147**
Dibenzo[a,h]anthracene	**1**	**105.66**	**0**	**100**	**106**	**58**	**142**
Benzo[g,h,i]perylene	**1**	**101.695**	**0**	**100**	**102**	**57**	**138**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB109448

	Data File	Sample ID:	Analysis Date
Spike or Dup:	5M124299.D	AD38798-004(MS:AD38798-002	6/28/2023 6:25:00 PM
Non Spike(If applicable):	5M124298.D	AD38798-002	6/28/2023 6:01:00 PM
Inst Blank(If applicable):			

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	48.7108	0	100	49	16	112
Pyridine	1	17.481	0	100	17	10	131
N-Nitrosodimethylamine	1	55.174	0	100	55	24	118
Benzaldehyde	1	54.3524	0	100	54	10	103
Aniline	1	74.6039	0	100	75	10	149
Pentachloroethane	1	72.0807	0	100	72	10	155
bis(2-Chloroethyl)ether	1	75.253	0	100	75	42	118
Phenol	1	36.0293	0	100	36	19	121
2-Chlorophenol	1	75.2	0	100	75	50	123
N-Decane	1	66.7421	0	100	67	25	129
1,3-Dichlorobenzene	1	74.141	0	100	74	13	126
1,4-Dichlorobenzene	1	77.6367	0	100	78	13	133
1,2-Dichlorobenzene	1	77.3861	0	100	77	16	129
Benzyl alcohol	1	77.1734	0	100	77	33	150
bis(2-chloroisopropyl)ether	1	55.4977	0	100	55	28	119
2-Methylphenol	1	67.1861	0	100	67	50	128
Acetophenone	1	94.1234	0	100	94	47	132
Hexachloroethane	1	76.5665	0	100	77	19	132
N-Nitroso-di-n-propylamine	1	85.4023	0	100	85	46	127
3&4-Methylphenol	1	64.8024	0	100	65	53	129
Nitrobenzene	1	87.8236	0	100	88	45	134
Isophorone	1	77.8996	0	100	78	48	121
2-Nitrophenol	1	95.3203	0	100	95	55	143
2,4-Dimethylphenol	1	71.4002	0	100	71	46	134
Benzoic Acid	1	45.1748	0	100	45	14	216
bis(2-Chloroethoxy)methane	1	85.6287	0	100	86	47	131
2,4-Dichlorophenol	1	89.8213	0	100	90	59	134
1,2,4-Trichlorobenzene	1	85.313	0	100	85	32	135
Naphthalene	1	82.0049	0	100	82	12	146
4-Chloroaniline	1	115.4051	0	100	115	10	161
Hexachlorobutadiene	1	82.5343	0	100	83	24	136
Caprolactam	1	38.5512	0	100	39	10	155
4-Chloro-3-methylphenol	1	91.5143	0	100	92	62	142
2-Methylnaphthalene	1	97.3642	0	100	97	34	156
1-Methylnaphthalene	1	98.8061	0	100	99	44	149
1,1'-Biphenyl	1	93.2342	0	100	93	51	137
1,2,4,5-Tetrachlorobenzene	1	92.9418	0	100	93	52	131
Hexachlorocyclopentadiene	1	95.7666	0	100	96	24	137
2,4,6-Trichlorophenol	1	101.939	0	100	102	66	142
2,4,5-Trichlorophenol	1	98.3336	0	100	98	65	143
2-Chloronaphthalene	1	88.8632	0	100	89	51	129
1,4-Dimethylnaphthalene	1	91.3852	0	100	91	50	137
Diphenyl Ether	1	94.9825	0	100	95	55	134
2-Nitroaniline	1	80.584	0	100	81	45	165
Coumarin	1	95.8452	0	100	96	10	194
Acenaphthylene	1	100.5465	0	100	101	46	130
Dimethylphthalate	1	92.4345	0	100	92	10	177
2,6-Dinitrotoluene	1	97.9753	0	100	98	55	135
Acenaphthene	1	93.6846	0	100	94	48	136
3-Nitroaniline	1	105.2632	0	100	105	24	169
2,4-Dinitrophenol	1	107.229	0	100	107	42	160
Dibenzofuran	1	95.6067	0	100	96	50	147
2,4-Dinitrotoluene	1	99.6277	0	100	100	55	136
4-Nitrophenol	1	39.206	0	100	39	27	141
2,3,4,6-Tetrachlorophenol	1	98.7706	0	100	99	59	141
Fluorene	1	95.9618	0	100	96	53	132
4-Chlorophenyl-phenylether	1	96.2425	0	100	96	58	133
Diethylphthalate	1	97.3823	0	100	97	25	152
4-Nitroaniline	1	93.8556	0	100	94	33	166
Atrazine	1	96.9216	0	100	97	21	152
4,6-Dinitro-2-methylphenol	1	112.394	0	100	112	58	158

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB109448

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	73.8144	0	100	74	44	112
1,2-Diphenylhydrazine	1	89.8502	0	100	90	53	140
4-Bromophenyl-phenylether	1	96.5394	0	100	97	60	139
Hexachlorobenzene	1	92.7115	0	100	93	58	132
N-Octadecane	1	127.426	0	100	127	53	157
Pentachlorophenol	1	107.7336	0	100	108	64	176
Phenanthrene	1	94.8565	0	100	95	56	136
Anthracene	1	94.0749	0	100	94	59	131
Carbazole	1	102.131	0	100	102	53	149
Di-n-butylphthalate	1	111.2291	0	100	111	60	140
Fluoranthene	1	102.0835	0	100	102	61	139
Pyrene	1	97.6193	0	100	98	58	133
Benzidine	1	0	0	100	0*	10	43
Butylbenzylphthalate	1	108.2969	0	100	108	61	145
3,3'-Dichlorobenzidine	1	66.0053	0	100	66	10	145
Benzo[a]anthracene	1	94.7511	0	100	95	56	122
Chrysene	1	95.355	0	100	95	58	136
bis(2-Ethylhexyl)phthalate	1	104.0236	0	100	104	59	145
Di-n-octylphthalate	1	100.3101	0	100	100	57	147
Benzo[b]fluoranthene	1	105.3426	0	100	105	58	146
Benzo[k]fluoranthene	1	105.7809	0	100	106	57	140
Benzo[a]pyrene	1	104.7327	0	100	105	55	135
Indeno[1,2,3-cd]pyrene	1	100.7351	0	100	101	59	147
Dibenzo[a,h]anthracene	1	103.1001	0	100	103	58	142
Benzo[g,h,i]perylene	1	97.2045	0	100	97	57	138

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB109448

	Data File	Sample ID:	Analysis Date
Spike or Dup:	5M124300.D	AD38798-005(MSD:AD38798-0	6/28/2023 6:49:00 PM
Non Spike(If applicable):	5M124298.D	AD38798-002	6/28/2023 6:01:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	42.1968	0	100	42	16	112
Pyridine	1	61.148	0	100	61	10	131
N-Nitrosodimethylamine	1	51.0184	0	100	51	24	118
Benzaldehyde	1	52.939	0	100	53	10	103
Aniline	1	87.2215	0	100	87	10	149
Pentachloroethane	1	71.8521	0	100	72	10	155
bis(2-Chloroethyl)ether	1	75.5493	0	100	76	42	118
Phenol	1	35.276	0	100	35	19	121
2-Chlorophenol	1	78.6018	0	100	79	50	123
N-Decane	1	65.6176	0	100	66	25	129
1,3-Dichlorobenzene	1	73.4492	0	100	73	13	126
1,4-Dichlorobenzene	1	73.9693	0	100	74	13	133
1,2-Dichlorobenzene	1	74.8967	0	100	75	16	129
Benzyl alcohol	1	72.077	0	100	72	33	150
bis(2-chloroisopropyl)ether	1	54.4114	0	100	54	28	119
2-Methylphenol	1	72.2419	0	100	72	50	128
Acetophenone	1	91.4097	0	100	91	47	132
Hexachloroethane	1	73.7763	0	100	74	19	132
N-Nitroso-di-n-propylamine	1	84.732	0	100	85	46	127
3&4-Methylphenol	1	67.9282	0	100	68	53	129
Nitrobenzene	1	85.3938	0	100	85	45	134
Isophorone	1	76.8078	0	100	77	48	121
2-Nitrophenol	1	93.0238	0	100	93	55	143
2,4-Dimethylphenol	1	79.8783	0	100	80	46	134
Benzoic Acid	1	40.6318	0	100	41	14	216
bis(2-Chloroethoxy)methane	1	84.4413	0	100	84	47	131
2,4-Dichlorophenol	1	91.539	0	100	92	59	134
1,2,4-Trichlorobenzene	1	83.1273	0	100	83	32	135
Naphthalene	1	79.8671	0	100	80	12	146
4-Chloroaniline	1	112.3736	0	100	112	10	161
Hexachlorobutadiene	1	79.9002	0	100	80	24	136
Caprolactam	1	36.0724	0	100	36	10	155
4-Chloro-3-methylphenol	1	97.0917	0	100	97	62	142
2-Methylnaphthalene	1	93.1821	0	100	93	34	156
1-Methylnaphthalene	1	93.0547	0	100	93	44	149
1,1'-Biphenyl	1	88.4323	0	100	88	51	137
1,2,4,5-Tetrachlorobenzene	1	89.3343	0	100	89	52	131
Hexachlorocyclopentadiene	1	101.9627	0	100	102	24	137
2,4,6-Trichlorophenol	1	101.4131	0	100	101	66	142
2,4,5-Trichlorophenol	1	98.811	0	100	99	65	143
2-Chloronaphthalene	1	87.7825	0	100	88	51	129
1,4-Dimethylnaphthalene	1	89.5783	0	100	90	50	137
Diphenyl Ether	1	93.1526	0	100	93	55	134
2-Nitroaniline	1	79.6593	0	100	80	45	165
Coumarin	1	94.3321	0	100	94	10	194
Acenaphthylene	1	98.4552	0	100	98	46	130
Dimethylphthalate	1	92.0065	0	100	92	10	177
2,6-Dinitrotoluene	1	96.015	0	100	96	55	135
Acenaphthene	1	91.5556	0	100	92	48	136
3-Nitroaniline	1	104.7786	0	100	105	24	169
2,4-Dinitrophenol	1	110.4481	0	100	110	42	160
Dibenzofuran	1	94.1467	0	100	94	50	147
2,4-Dinitrotoluene	1	99.6738	0	100	100	55	136
4-Nitrophenol	1	39.7662	0	100	40	27	141
2,3,4,6-Tetrachlorophenol	1	96.9944	0	100	97	59	141
Fluorene	1	94.6224	0	100	95	53	132
4-Chlorophenyl-phenylether	1	95.4108	0	100	95	58	133
Diethylphthalate	1	95.941	0	100	96	25	152
4-Nitroaniline	1	91.6594	0	100	92	33	166
Atrazine	1	94.2246	0	100	94	21	152
4,6-Dinitro-2-methylphenol	1	111.8117	0	100	112	58	158

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB109448

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	**1**	**77.4081**	**0**	**100**	**77**	**44**	**112**
1,2-Diphenylhydrazine	1	89.0775	0	100	89	53	140
4-Bromophenyl-phenylether	**1**	**96.0575**	**0**	**100**	**96**	**60**	**139**
Hexachlorobenzene	**1**	**91.6198**	**0**	**100**	**92**	**58**	**132**
N-Octadecane	1	125.4086	0	100	125	53	157
Pentachlorophenol	**1**	**103.0671**	**0**	**100**	**103**	**64**	**176**
Phenanthrene	**1**	**92.3699**	**0**	**100**	**92**	**56**	**136**
Anthracene	**1**	**94.2817**	**0**	**100**	**94**	**59**	**131**
Carbazole	**1**	**97.7706**	**0**	**100**	**98**	**58**	**136**
Di-n-butylphthalate	**1**	**107.1854**	**0**	**100**	**107**	**60**	**140**
Fluoranthene	**1**	**100.1317**	**0**	**100**	**100**	**61**	**139**
Pyrene	**1**	**94.4722**	**0**	**100**	**94**	**58**	**133**
Benzidine	1	35.6055	0	100	36	10	43
Butylbenzylphthalate	**1**	**104.8246**	**0**	**100**	**105**	**61**	**145**
3,3'-Dichlorobenzidine	**1**	**85.3929**	**0**	**100**	**85**	**10**	**145**
Benzo[a]anthracene	**1**	**93.459**	**0**	**100**	**93**	**56**	**122**
Chrysene	**1**	**92.6041**	**0**	**100**	**93**	**58**	**136**
bis(2-Ethylhexyl)phthalate	**1**	**102.7201**	**0**	**100**	**103**	**59**	**145**
Di-n-octylphthalate	**1**	**99.6104**	**0**	**100**	**100**	**57**	**147**
Benzo[b]fluoranthene	**1**	**101.9834**	**0**	**100**	**102**	**58**	**146**
Benzo[k]fluoranthene	**1**	**100.902**	**0**	**100**	**101**	**57**	**140**
Benzo[a]pyrene	**1**	**104.9628**	**0**	**100**	**105**	**55**	**135**
Indeno[1,2,3-cd]pyrene	**1**	**97.709**	**0**	**100**	**98**	**59**	**147**
Dibenzo[a,h]anthracene	**1**	**98.3955**	**0**	**100**	**98**	**58**	**142**
Benzo[g,h,i]perylene	**1**	**94.7946**	**0**	**100**	**95**	**57**	**138**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: WMB109448

	Data File	Sample ID:	Analysis Date
Spike or Dup:	5M124300.D	AD38798-005(MSD:AD38798-0	6/28/2023 6:49:00 PM
Duplicate(If applicable):	5M124299.D	AD38798-004(MS:AD38798-002	6/28/2023 6:25:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
1,4-Dioxane	**1**	**42.1968**	**48.7108**	**14**	**58**
Pyridine	1	61.148	17.481	111	143
N-Nitrosodimethylamine	1	51.0184	55.174	7.8	40
Benzaldehyde	**1**	**52.939**	**54.3524**	**2.6**	**92**
Aniline	1	87.2215	74.6039	16	138
Pentachloroethane	1	71.8521	72.0807	0.32	79
bis(2-Chloroethyl)ether	**1**	**75.5493**	**75.253**	**0.39**	**42**
Phenol	**1**	**35.276**	**36.0293**	**2.1**	**86**
2-Chlorophenol	**1**	**78.6018**	**75.2**	**4.4**	**47**
N-Decane	1	65.6176	66.7421	1.7	59
1,3-Dichlorobenzene	1	73.4492	74.141	0.94	90
1,4-Dichlorobenzene	1	73.9693	77.6367	4.8	88
1,2-Dichlorobenzene	1	74.8967	77.3861	3.3	74
Benzyl alcohol	1	72.077	77.1734	6.8	35
bis(2-chloroisopropyl)ether	**1**	**54.4114**	**55.4977**	**2**	**48**
2-Methylphenol	**1**	**72.2419**	**67.1861**	**7.3**	**34**
Acetophenone	**1**	**91.4097**	**94.1234**	**2.9**	**30**
Hexachloroethane	**1**	**73.7763**	**76.5665**	**3.7**	**88**
N-Nitroso-di-n-propylamine	**1**	**84.732**	**85.4023**	**0.79**	**56**
3&4-Methylphenol	**1**	**67.9282**	**64.8024**	**4.7**	**28**
Nitrobenzene	**1**	**85.3938**	**87.8236**	**2.8**	**38**
Isophorone	**1**	**76.8078**	**77.8996**	**1.4**	**35**
2-Nitrophenol	**1**	**93.0238**	**95.3203**	**2.4**	**41**
2,4-Dimethylphenol	**1**	**79.8783**	**71.4002**	**11**	**33**
Benzoic Acid	1	40.6318	45.1748	11	82
bis(2-Chloroethoxy)methane	**1**	**84.4413**	**85.6287**	**1.4**	**44**
2,4-Dichlorophenol	**1**	**91.539**	**89.8213**	**1.9**	**37**
1,2,4-Trichlorobenzene	1	83.1273	85.313	2.6	50
Naphthalene	**1**	**79.8671**	**82.0049**	**2.6**	**47**
4-Chloroaniline	**1**	**112.3736**	**115.4051**	**2.7**	**85**
Hexachlorobutadiene	**1**	**79.9002**	**82.5343**	**3.2**	**58**
Caprolactam	**1**	**36.0724**	**38.5512**	**6.6**	**33**
4-Chloro-3-methylphenol	**1**	**97.0917**	**91.5143**	**5.9**	**28**
2-Methylnaphthalene	**1**	**93.1821**	**97.3642**	**4.4**	**38**
1-Methylnaphthalene	1	93.0547	98.8061	6	32
1,1'-Biphenyl	**1**	**88.4323**	**93.2342**	**5.3**	**31**
1,2,4,5-Tetrachlorobenzene	**1**	**89.3343**	**92.9418**	**4**	**32**
Hexachlorocyclopentadiene	**1**	**101.9627**	**95.7666**	**6.3**	**48**
2,4,6-Trichlorophenol	**1**	**101.4131**	**101.939**	**0.52**	**62**
2,4,5-Trichlorophenol	**1**	**98.811**	**98.3336**	**0.48**	**35**
2-Chloronaphthalene	**1**	**87.7825**	**88.8632**	**1.2**	**35**
1,4-Dimethylnaphthalene	1	89.5783	91.3852	2	31
Diphenyl Ether	1	93.1526	94.9825	1.9	32
2-Nitroaniline	**1**	**79.6593**	**80.584**	**1.2**	**37**
Coumarin	1	94.3321	95.8452	1.6	97
Acenaphthylene	**1**	**98.4552**	**100.5465**	**2.1**	**41**
Dimethylphthalate	**1**	**92.0065**	**92.4345**	**0.46**	**108**
2,6-Dinitrotoluene	**1**	**96.015**	**97.9753**	**2**	**35**
Acenaphthene	**1**	**91.5556**	**93.6846**	**2.3**	**35**
3-Nitroaniline	**1**	**104.7786**	**105.2632**	**0.46**	**64**
2,4-Dinitrophenol	**1**	**110.4481**	**107.229**	**3**	**63**
Dibenzofuran	**1**	**94.1467**	**95.6067**	**1.5**	**36**
2,4-Dinitrotoluene	**1**	**99.6738**	**99.6277**	**0.05**	**35**
4-Nitrophenol	**1**	**39.7662**	**39.206**	**1.4**	**33**
2,3,4,6-Tetrachlorophenol	**1**	**96.9944**	**98.7706**	**1.8**	**36**
Fluorene	**1**	**94.6224**	**95.9618**	**1.4**	**34**
4-Chlorophenyl-phenylether	**1**	**95.4108**	**96.2425**	**0.87**	**33**
Diethylphthalate	**1**	**95.941**	**97.3823**	**1.5**	**37**
4-Nitroaniline	**1**	**91.6594**	**93.8556**	**2.4**	**35**
Atrazine	**1**	**94.2246**	**96.9216**	**2.8**	**47**
4,6-Dinitro-2-methylphenol	**1**	**111.8117**	**112.394**	**0.52**	**46**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: WMB109448

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Nitrosodiphenylamine	1	77.4081	73.8144	4.8	37
1,2-Diphenylhydrazine	1	89.0775	89.8502	0.86	36
4-Bromophenyl-phenylether	1	96.0575	96.5394	0.5	34
Hexachlorobenzene	1	91.6198	92.7115	1.2	34
N-Octadecane	1	125.4086	127.426	1.6	31
Pentachlorophenol	1	103.0671	107.7336	4.4	32
Phenanthrene	1	92.3699	94.8565	2.7	33
Anthracene	1	94.2817	94.0749	0.22	34
Carbazole	1	97.7706	102.131	4.4	32
Di-n-butylphthalate	1	107.1854	111.2291	3.7	34
Fluoranthene	1	100.1317	102.0835	1.9	34
Pyrene	1	94.4722	97.6193	3.3	33
Benzidine	1	35.6055	0	200	213
Butylbenzylphthalate	1	104.8246	108.2969	3.3	34
3,3'-Dichlorobenzidine	1	85.3929	66.0053	26	126
Benzo[a]anthracene	1	93.459	94.7511	1.4	33
Chrysene	1	92.6041	95.355	2.9	32
bis(2-Ethylhexyl)phthalate	1	102.7201	104.0236	1.3	33
Di-n-octylphthalate	1	99.6104	100.3101	0.7	36
Benzo[b]fluoranthene	1	101.9834	105.3426	3.2	36
Benzo[k]fluoranthene	1	100.902	105.7809	4.7	20
Benzo[a]pyrene	1	104.9628	104.7327	0.22	35
Indeno[1,2,3-cd]pyrene	1	97.709	100.7351	3	35
Dibenzo[a,h]anthracene	1	98.3955	103.1001	4.7	35
Benzo[g,h,i]perylene	1	94.7946	97.2045	2.5	35

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: WMB109448
Blank Data File: 5M124294.D
Matrix: Aqueous

Blank Analysis Date: 06/28/23 15:58
Blank Extraction Date: 06/28/23
(If Applicable)
Method: EPA 8270E

Sample Number	Data File	Analysis Date
AD38798-001	5M124301.D	06/28/23 19:13
AD38798-003	5M124302.D	06/28/23 19:38
AD38798-005(MSD	5M124300.D	06/28/23 18:49
AD38798-004(MS:	5M124299.D	06/28/23 18:25
AD38798-002	5M124298.D	06/28/23 18:01
WMB109448(MS)	5M124293.D	06/28/23 15:34

FORM 4
Blank Summary

Blank Number: WMB109448
Blank Data File: 5M124294.D
Matrix: Aqueous

Blank Analysis Date: 06/28/23 15:58
Blank Extraction Date: 06/28/23
(If Applicable)
Method: EPA 8270E

Sample Number	Data File	Analysis Date
AD38798-002	5M124298.D	06/28/23 18:01
AD38798-004(MS:	5M124299.D	06/28/23 18:25
AD38798-005(MSD	5M124300.D	06/28/23 18:49
AD38798-006	5M124303.D	06/28/23 20:02
AD38798-007	5M124304.D	06/28/23 20:25
WMB109448(MS)	5M124293.D	06/28/23 15:34

FORM 4
Blank Summary

Blank Number: WMB109448
Blank Data File: 12M67394.D
Matrix: Aqueous

Blank Analysis Date: 06/28/23 15:03
Blank Extraction Date: 06/28/23
(If Applicable)
Method: EPA8270E SIM

Sample Number	Data File	Analysis Date
AD38798-002	12M67399.D	06/28/23 16:53
AD38798-006	12M67400.D	06/28/23 17:14
AD38798-007	12M67401.D	06/28/23 17:36

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 5
Data File: 5M124255.D
Analysis Date: 06/21/23 11:53
Method: EPA 8270E

Tune Scan/Time Range: Scan 1414

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	34.5	28968	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.9	33440	PASS
70	69	0.00	2	0.5	168	PASS
127	198	40	60	48.3	40536	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	83904	PASS
199	198	5	9	7.1	5926	PASS
275	198	10	30	22.4	18760	PASS
365	198	1	100	2.2	1844	PASS
441	443	0.01	100	76.2	7695	PASS
442	198	40	100	60.7	50920	PASS
443	442	17	23	19.8	10097	PASS

Data File	Sample Number	Analysis Date:
5M124256.D	CAL BNA@2PPM	06/21/23 12:17
5M124257.D	CAL BNA@10PPM	06/21/23 12:41
5M124258.D	CAL BNA@196PP	06/21/23 13:04
5M124259.D	CAL BNA@160PP	06/21/23 13:28
5M124260.D	CAL BNA@120PP	06/21/23 13:52
5M124261.D	CAL BNA@80PPM	06/21/23 14:16
5M124262.D	CAL BNA@20PPM	06/21/23 14:39
5M124263.D	CAL BNA@0.5PP	06/21/23 15:03
5M124264.D	CAL BNA@50PPM	06/21/23 15:27
5M124265.D	ICV BNA@50PPM	06/21/23 15:55

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 5
Data File: 5M124291.D
Analysis Date: 06/28/23 14:46
Method: EPA 8270E

Tune Scan/Time Range: Scan 1415

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	31.8	37888	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	35.9	42832	PASS
70	69	0.00	2	0.6	242	PASS
127	198	40	60	45.6	54272	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	119144	PASS
199	198	5	9	7.1	8491	PASS
275	198	10	30	22.2	26456	PASS
365	198	1	100	2.4	2869	PASS
441	443	0.01	100	77.4	11626	PASS
442	198	40	100	63.0	75104	PASS
443	442	17	23	20.0	15023	PASS

Data File	Sample Number	Analysis Date:
5M124292.D	CAL BNA@50PPM	06/28/23 15:10
5M124293.D	WMB109448(MS)	06/28/23 15:34
5M124294.D	WMB109448	06/28/23 15:58
5M124295.D	MDL-3 (AQ)	06/28/23 16:22
5M124296.D	OMB109445(MS)	06/28/23 17:13
5M124297.D	OMB109445	06/28/23 17:37
5M124298.D	AD38798-002	06/28/23 18:01
5M124299.D	AD38798-004(MS:	06/28/23 18:25
5M124300.D	AD38798-005(MSD	06/28/23 18:49
5M124301.D	AD38798-001	06/28/23 19:13
5M124302.D	AD38798-003	06/28/23 19:38
5M124303.D	AD38798-006	06/28/23 20:02
5M124304.D	AD38798-007	06/28/23 20:25
5M124305.D	AD38818-023	06/28/23 20:49

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 12Sm
Data File: 12M67038.D
Analysis Date: 05/18/23 08:59
Method: EPA8270E SIM

Tune Scan/Time Range: Average of 9.941 to 9.946 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	39.6	51320	PASS
68	69	0.00	2	1.7	942	PASS
69	198	0.00	100	41.6	53848	PASS
70	69	0.00	2	0.5	262	PASS
127	198	40	60	51.5	66688	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	129436	PASS
199	198	5	9	6.9	8957	PASS
275	198	10	30	20.9	27024	PASS
365	198	1	100	2.2	2891	PASS
441	443	0.01	100	68.2	9251	PASS
442	198	40	100	50.6	65508	PASS
443	442	17	23	20.7	13559	PASS

Data File	Sample Number	Analysis Date:
12M67039.D	CAL SIM@5PPM	05/18/23 09:21
12M67040.D	CAL SIM@5PPM	05/18/23 09:55
12M67041.D	CAL SIM@0.02PP	05/18/23 10:22
12M67042.D	CAL SIM@0.1PPM	05/18/23 10:43
12M67043.D	CAL SIM@0.2PPM	05/18/23 11:05
12M67044.D	CAL SIM@0.5PPM	05/18/23 11:27
12M67045.D	CAL SIM@1PPM	05/18/23 11:49
12M67046.D	CAL SIM@10PPM	05/18/23 12:10
12M67047.D	CAL SIM@19.6PP	05/18/23 12:32
12M67048.D	CAL SIM@5PPM	05/18/23 12:53
12M67049.D	ICV SIM@5PPM	05/18/23 13:15
12M67050.D	AD37540-007	05/18/23 14:03
12M67051.D	AD37730-018	05/18/23 14:24
12M67052.D	AD37730-018(3X)	05/18/23 14:46
12M67053.D	SMB107419	05/18/23 15:07
12M67054.D	SMB107512	05/18/23 15:28
12M67055.D	SIM MDL(S)-3	05/18/23 15:50
12M67056.D	SIM MDL(AQ)-3	05/18/23 16:11

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 12Sm
Data File: 12M67375.D
Analysis Date: 06/28/23 07:55
Method: EPA8270E SIM

Tune Scan/Time Range: Scan 1433

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	31.6	85032	PASS
68	69	0.00	2	1.7	1579	PASS
69	198	0.00	100	34.3	92448	PASS
70	69	0.00	2	0.6	515	PASS
127	198	40	60	46.2	124304	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	269248	PASS
199	198	5	9	6.8	18240	PASS
275	198	10	30	24.4	65744	PASS
365	198	1	100	2.9	7902	PASS
441	443	0.01	100	80.5	33208	PASS
442	198	40	100	79.4	213760	PASS
443	442	17	23	19.3	41272	PASS

Data File	Sample Number	Analysis Date:
12M67376.D	CAL SIM@5PPM	06/28/23 08:21
12M67377.D	TCCD STD@5PPM	06/28/23 08:55
12M67378.D	WMB108930	06/28/23 09:16
12M67379.D	AD38757-009	06/28/23 09:37
12M67380.D	AD38757-001	06/28/23 09:59
12M67381.D	AD38757-002	06/28/23 10:21
12M67382.D	AD38757-003	06/28/23 10:42
12M67383.D	AD38757-004	06/28/23 11:04
12M67384.D	AD38757-005	06/28/23 11:26
12M67385.D	AD38757-006	06/28/23 11:47
12M67386.D	AD38757-007	06/28/23 12:09
12M67387.D	AD38757-008	06/28/23 12:31
12M67388.D	AD38796-001	06/28/23 12:53
12M67389.D	AD38720-001	06/28/23 13:14
12M67390.D	AD38720-002	06/28/23 13:36
12M67391.D	AD38720-003	06/28/23 13:58
12M67392.D	AD38720-004	06/28/23 14:20
12M67393.D	AD38720-005	06/28/23 14:41
12M67394.D	WMB109448	06/28/23 15:03
12M67395.D	MDL-3 (AQ)	06/28/23 15:25
12M67396.D	AD38720-006	06/28/23 15:47
12M67397.D	AD38720-007	06/28/23 16:09
12M67398.D	AD38714-003(50X)	06/28/23 16:31
12M67399.D	AD38798-002	06/28/23 16:53
12M67400.D	AD38798-006	06/28/23 17:14
12M67401.D	AD38798-007	06/28/23 17:36

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FORM8

Internal Standard Areas

Evaluation Std Data File: 5M124264.D Method: EPA 8270E

Analysis Date/Time: 06/21/23 15:27

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	52985	2.35	74399	5.64	250978	6.66	139070	8.06	254424	9.50	237728	12.54	226792	14.14
Eval File Area Limit:	26492-105970		37200-148798		125489-501956		69535-278140		127212-508848		118864-475456		113396-453584	
Eval File Rt Limit:	1.85-2.85		5.14-6.14		6.16-7.16		7.56-8.56		9-10		12.04-13.04		13.64-14.64	
Data File Sample#														
5M124256.D CAL BNA@2PPM	47120	2.35	68330	5.64	244363	6.65	138111	8.06	248753	9.50	223754	12.54	222201	14.14
5M124257.D CAL BNA@10PPM	46121	2.36	66413	5.64	232816	6.65	129563	8.06	233711	9.50	210427	12.54	208245	14.14
5M124258.D CAL BNA@196PPM	50530	2.35	66615	5.65	228370	6.66	128595	8.06	237934	9.50	226870	12.55	213673	14.15
5M124259.D CAL BNA@160PPM	50724	2.35	67561	5.65	232381	6.66	129184	8.06	233393	9.50	225259	12.55	216306	14.15
5M124260.D CAL BNA@120PPM	51309	2.36	71242	5.65	244578	6.66	134400	8.06	241766	9.50	228847	12.54	223580	14.14
5M124261.D CAL BNA@80PPM	54825	2.35	76871	5.65	263834	6.66	149394	8.06	274717	9.50	259957	12.54	250220	14.14
5M124262.D CAL BNA@20PPM	53086	2.35	78280	5.64	272851	6.65	150848	8.05	279073	9.50	252777	12.54	250036	14.14
5M124263.D CAL BNA@0.5PPM	50767	2.35	75450	5.64	262081	6.65	147339	8.06	260497	9.50	236420	12.54	228305	14.14
5M124264.D CAL BNA@50PPM	52985	2.35	74399	5.64	250978	6.66	139070	8.06	254424	9.50	237728	12.54	226792	14.14
5M124265.D ICV BNA@50PPM	52855	2.36	72888	5.65	246724	6.66	136453	8.06	253693	9.50	236998	12.54	220146	14.14

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

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FORM8

Internal Standard Areas

Evaluation Std Data File: 5M124292.D Method: EPA 8270E

Analysis Date/Time: 06/28/23 15:10

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	53734	2.35	73438	5.65	255444	6.66	139607	8.06	255045	9.50	234012	12.54	225561	14.15
Eval File Area Limit:	26867-107468		36719-146876		127722-510888		69804-279214		127522-510090		117006-468024		112780-451122	
Eval File Rt Limit:	1.85-2.85		5.15-6.15		6.16-7.16		7.56-8.56		9-10		12.04-13.04		13.65-14.65	
Data File Sample#														
5M124293.D WMB109448(MS)	55415	2.36	76843	5.65	260041	6.66	142555	8.06	257037	9.50	246310	12.55	224930	14.15
5M124294.D WMB109448	53605	2.35	79184	5.65	284306	6.66	154020	8.06	275726	9.50	239439	12.54	232294	14.14
5M124295.D MDL-3 (AQ)	57313	2.35	80177	5.65	284854	6.66	158808	8.06	287756	9.50	249457	12.54	236442	14.14
5M124296.D OMB109445(MS)	56204	2.35	75527	5.65	252387	6.66	139749	8.06	250975	9.50	235616	12.55	218420	14.15
5M124297.D OMB109445	53438	2.35	76461	5.65	275399	6.66	153538	8.06	276104	9.50	231499	12.54	225571	14.14
5M124298.D AD38798-002	48891	2.35	71426	5.65	246889	6.66	136164	8.06	243116	9.50	206576	12.54	188754	14.14
5M124299.D AD38798-004(MS:AD	55597	2.35	76596	5.65	260607	6.66	143211	8.06	259772	9.50	247941	12.55	230506	14.15
5M124300.D AD38798-005(MSD:A	55921	2.35	78906	5.65	271401	6.66	148246	8.06	268514	9.50	256415	12.55	238049	14.15
5M124301.D AD38798-001	57715	2.35	87341	5.65	309827	6.66	171051	8.06	308304	9.50	265360	12.54	256292	14.14
5M124302.D AD38798-003	59874	2.35	87225	5.65	304898	6.66	169565	8.05	308298	9.50	255966	12.54	249383	14.14
5M124303.D AD38798-006	54492	2.35	78215	5.65	278786	6.66	154759	8.06	273045	9.50	233333	12.54	223596	14.14
5M124304.D AD38798-007	55559	2.35	82065	5.65	284600	6.66	157826	8.06	289119	9.50	237839	12.54	229207	14.14
5M124305.D AD38818-023	57933	2.35	85878	5.65	301158	6.66	166940	8.06	300953	9.50	250378	12.54	244010	14.14

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

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FORM8

Internal Standard Areas

Evaluation Std Data File: 12M67048.D Method: EPA8270E SIM

Analysis Date/Time: 05/18/23 12:53

Lab File ID: CAL SIM@5PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	22506	2.53	22307	5.78	98083	6.79	54961	8.21	99688	9.66	48909	12.72	34149	14.34
Eval File Area Limit:	11253-45012		11154-44614		49042-196166		27480-109922		49844-199376		24454-97818		17074-68298	
Eval File Rt Limit:	2.03-3.03		5.28-6.28		6.29-7.29		7.71-8.71		9.16-10.16		12.22-13.22		13.84-14.84	

Data File	Sample#													
12M67041.D	CAL SIM@0.02PPM	23681	2.54	27499	5.78	113251	6.79	60150	8.21	106948	9.67	44104	12.72	32051	14.34
12M67042.D	CAL SIM@0.1PPM	23581	2.54	26092	5.78	108741	6.79	58499	8.21	102165	9.66	41235	12.72	30599	14.34
12M67043.D	CAL SIM@0.2PPM	22379	2.54	25736	5.78	106205	6.79	57003	8.21	99965	9.66	40935	12.72	30414	14.34
12M67044.D	CAL SIM@0.5PPM	22169	2.54	24701	5.78	101565	6.79	54411	8.21	95010	9.66	42430	12.72	29960	14.34
12M67045.D	CAL SIM@1PPM	23150	2.54	25065	5.78	113266	6.79	57217	8.21	100074	9.66	46908	12.72	32411	14.33
12M67046.D	CAL SIM@10PPM	22364	2.53	21218	5.78	94288	6.79	49108	8.21	94110	9.66	43409	12.71	32078	14.34
12M67047.D	CAL SIM@19.6PPM	23025	2.53	22928	5.78	100059	6.79	52354	8.21	100790	9.66	43224	12.72	36482	14.34
12M67048.D	CAL SIM@5PPM	22506	2.53	22307	5.78	98083	6.79	54961	8.21	99688	9.66	48909	12.72	34149	14.34
12M67049.D	ICV SIM@5PPM	22284	2.53	22216	5.78	103176	6.79	51647	8.21	102111	9.66	50645	12.72	34165	14.34
12M67050.D	AD37540-007	23793	2.54	27449	5.78	106286	6.79	50459	8.21	101954	9.67	51049	12.72	34629	14.35
12M67051.D	AD37730-018	24029	2.53	27688	5.78	123311	6.79	61017	8.21	138113	9.66	64751	12.72	55000	14.34
12M67052.D	AD37730-018(3X)	22544	2.53	26482	5.78	120726	6.79	57665	8.21	127088	9.66	60398	12.72	51236	14.34
12M67053.D	SMB107419	33601	2.52	26757	5.78	112073	6.79	65490	8.21	127610	9.66	61610	12.72	60212	14.34
12M67054.D	SMB107512	26468	2.53	25233	5.78	105357	6.79	61442	8.21	118313	9.66	56396	12.72	50270	14.33
12M67055.D	SIM MDL(S)-3	28113	2.52	25807	5.78	104655	6.79	61281	8.21	118645	9.66	52091	12.72	47955	14.34
12M67056.D	SIM MDL(AQ)-3	29426	2.54	33238	5.78	140827	6.79	76116	8.21	147138	9.66	65767	12.72	61441	14.34

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

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FORM8

Internal Standard Areas

Evaluation Std Data File: 12M67376.D Method: EPA8270E SIM

Analysis Date/Time: 06/28/23 08:21

Lab File ID: CAL SIM@5PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	22974	2.54	21297	5.78	93517	6.79	53184	8.21	99939	9.66	55599	12.72	38639	14.34
Eval File Area Limit:	11487-45948		10648-42594		46758-187034		26592-106368		49970-199878		27800-111198		19320-77278	
Eval File Rt Limit:	2.04-3.04		5.28-6.28		6.29-7.29		7.71-8.71		9.16-10.16		12.22-13.22		13.84-14.84	

Data File	Sample#													
12M67377.D	TCCD STD@5PPM	26708	2.57	31965	5.78	134638	6.79	73282	8.21	139537	9.67	58546	12.72	51188	14.34
12M67378.D	WMB108930	25589	2.54	29282	5.78	111888	6.78	61778	8.21	124776	9.66	47488	12.72	39839	14.34
12M67379.D	AD38757-009	25240	2.54	24909	5.78	92519	6.79	85841	8.21	122790	9.66	60585	12.71	52940	14.33
12M67380.D	AD38757-001	23762	2.54	27642	5.78	104364	6.79	58606	8.21	123922	9.66	52020	12.71	49187	14.33
12M67381.D	AD38757-002	24580	2.54	30311	5.78	112330	6.79	57695	8.21	118332	9.66	48766	12.72	44408	14.34
12M67382.D	AD38757-003	23891	2.54	24378	5.78	95100	6.79	89012	8.21	126445	9.66	60508	12.72	48694	14.34
12M67383.D	AD38757-004	23493	2.54	27590	5.78	109268	6.78	75216	8.21	125400	9.66	57919	12.72	54784	14.34
12M67384.D	AD38757-005	23303	2.54	26675	5.78	101889	6.79	57708	8.21	112424	9.66	50672	12.72	50960	14.34
12M67385.D	AD38757-006	23989	2.54	27351	5.78	105630	6.79	62802	8.21	120341	9.66	53249	12.72	51784	14.34
12M67386.D	AD38757-007	23217	2.54	26573	5.78	101695	6.79	68592	8.21	117032	9.66	59345	12.72	51587	14.34
12M67387.D	AD38757-008	24928	2.54	28540	5.78	103949	6.79	60620	8.21	121233	9.66	48968	12.72	44920	14.34
12M67388.D	AD38796-001	22991	2.54	25743	5.78	105683	6.78	57389	8.21	116219	9.67	51734	12.72	49699	14.34
12M67389.D	AD38720-001	22910	2.54	24691	5.78	98266	6.79	72530	8.21	117000	9.66	59028	12.72	56921	14.34
12M67390.D	AD38720-002	22738	2.54	28994	5.78	103169	6.79	59076	8.21	122775	9.66	58710	12.72	54575	14.34
12M67391.D	AD38720-003	23789	2.54	27030	5.78	104156	6.79	61482	8.21	116468	9.66	52723	12.72	52970	14.34
12M67392.D	AD38720-004	27424	2.54	32115	5.78	126214	6.79	75014	8.21	135371	9.66	63782	12.72	60506	14.34
12M67393.D	AD38720-005	23303	2.54	26766	5.78	99522	6.79	57180	8.21	120541	9.66	52677	12.72	46571	14.34
12M67394.D	WMB109448	23663	2.54	25968	5.78	107262	6.79	57849	8.21	108199	9.66	45392	12.72	38327	14.34
12M67395.D	MDL-3 (AQ)	22763	2.54	24824	5.78	100918	6.79	55452	8.21	102936	9.66	42119	12.72	34410	14.34
12M67396.D	AD38720-006	23399	2.54	26468	5.78	101029	6.79	64017	8.21	111596	9.66	53503	12.72	44192	14.34
12M67397.D	AD38720-007	22680	2.54	25887	5.78	95485	6.79	54842	8.21	111151	9.66	45556	12.72	35392	14.34
12M67398.D	AD38714-003(50X)	30403	2.54	25285	5.78	126561	6.79	95447	8.21	122471	9.66	56565	12.72	46791	14.34
12M67399.D	AD38798-002	21538	2.54	23967	5.78	95420	6.79	53383	8.21	98629	9.66	41069	12.72	36008	14.33
12M67400.D	AD38798-006	24005	2.54	28351	5.78	103250	6.79	60013	8.21	107719	9.66	43892	12.72	38104	14.34
12M67401.D	AD38798-007	23193	2.54	25424	5.78	106154	6.79	55866	8.21	103424	9.66	41366	12.72	35286	14.34

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

GC/MS Base Neutral/Acid Extractable Data
Sample Data

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38798-001
Client Id: MW-1_6.22.23
Data File: 5M124301.D
Analysis Date: 06/28/23 19:13
Date Rec/Extracted: 06/23/23-06/28/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U
207-08-9	Benzo[k]fluoranthene	2.0	U				

Worksheet #: 697640

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

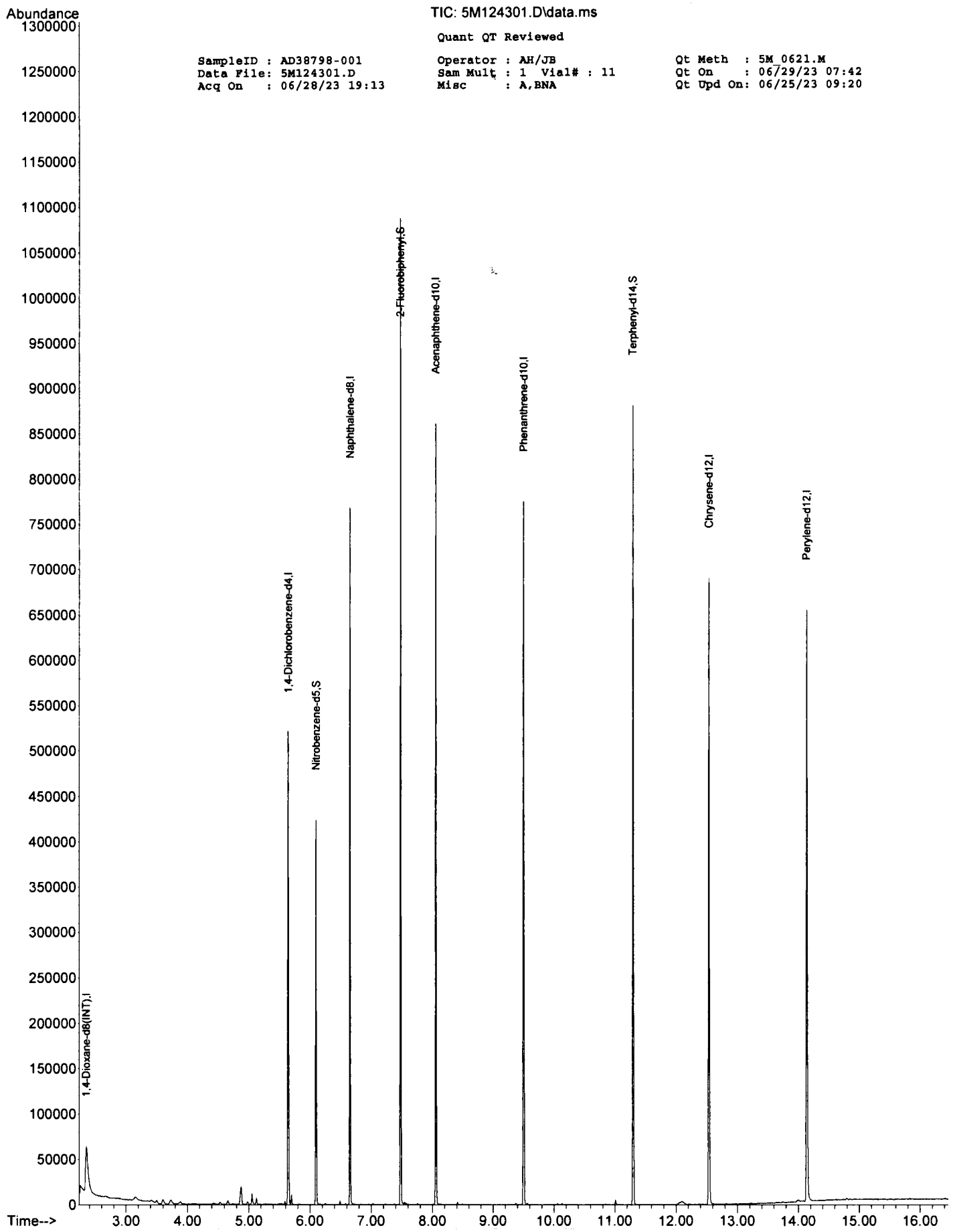
Quantitation Report (QT Reviewed)

SampleID : AD38798-001 Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124301.D Sam Mult : 1 Vial# : 11 Qt On : 06/29/23 07:42
Acq On : 06/28/23 19:13 Misc : A,BNA Qt Upd On: 06/25/23 09:20

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-28-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.350	96	57715	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.646	152	87341	40.00	ng	0.00
31) Naphthalene-d8	6.655	136	309827	40.00	ng	0.00
50) Acenaphthene-d10	8.055	164	171051	40.00	ng	0.00
77) Phenanthrene-d10	9.503	188	308304	40.00	ng	0.00
91) Chrysene-d12	12.543	240	265360	40.00	ng	0.00
103) Perylene-d12	14.140	264	256292	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	0.000	112	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
16) Phenol-d5	0.000	99	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
32) Nitrobenzene-d5	6.100	128	59494	45.92	ng	0.00
Spiked Amount 50.000			Recovery =	91.84%		
55) 2-Fluorobiphenyl	7.478	172	291258	47.59	ng	0.00
Spiked Amount 50.000			Recovery =	95.18%		
80) 2,4,6-Tribromophenol	0.000	330	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
94) Terphenyl-d14	11.298	244	276154	55.51	ng	0.00
Spiked Amount 50.000			Recovery =	111.02%		
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 5M124301.D\data.ms
Quant QT Reviewed
SampleID : AD38798-001
Data File: 5M124301.D
Acq On : 06/28/23 19:13
Operator : AH/JB
Sam Mult : 1 Vial# : 11
Misc : A,BNA
Qt Meth : 5M_0621.M
Qt On : 06/29/23 07:42
Qt Upd On: 06/25/23 09:20
Abundance
Time-->
1,4-Dioxane-d8(INT),I
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38798-002
Client Id: MW-2_6.22.23
Data File: 5M124298.D
Analysis Date: 06/28/23 18:01
Date Rec/Extracted: 06/23/23-06/28/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	U	50-32-8	Benzo[a]pyrene	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	205-99-2	Benzo[b]fluoranthene	2.0	U
123-91-1	1,4-Dioxane	0.50	U	191-24-2	Benzo[g,h,i]perylene	2.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	207-08-9	Benzo[k]fluoranthene	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U	111-91-1	bis(2-Chloroethoxy)methan	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	111-44-4	bis(2-Chloroethyl)ether	0.51	U
120-83-2	2,4-Dichlorophenol	0.62	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
105-67-9	2,4-Dimethylphenol	1.1	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	85-68-7	Butylbenzylphthalate	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	105-60-2	Caprolactam	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	86-74-8	Carbazole	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
95-57-8	2-Chlorophenol	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	132-64-9	Dibenzofuran	0.59	U
95-48-7	2-Methylphenol	0.59	U	84-66-2	Diethylphthalate	2.0	U
88-74-4	2-Nitroaniline	2.0	U	131-11-3	Dimethylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	84-74-2	Di-n-butylphthalate	0.72	U
106-44-5	3&4-Methylphenol	0.64	U	117-84-0	Di-n-octylphthalate	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	206-44-0	Fluoranthene	2.0	U
99-09-2	3-Nitroaniline	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	6.8	U
106-47-8	4-Chloroaniline	0.59	U	67-72-1	Hexachloroethane	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
100-01-6	4-Nitroaniline	2.0	U	78-59-1	Isophorone	2.0	U
100-02-7	4-Nitrophenol	2.0	U	91-20-3	Naphthalene	0.50	U
83-32-9	Acenaphthene	2.0	U	98-95-3	Nitrobenzene	2.0	U
208-96-8	Acenaphthylene	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.61	U
98-86-2	Acetophenone	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
120-12-7	Anthracene	2.0	U	87-86-5	Pentachlorophenol	10	U
1912-24-9	Atrazine	2.0	U	85-01-8	Phenanthrene	2.0	U
100-52-7	Benzaldehyde	2.0	U	108-95-2	Phenol	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 697606

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

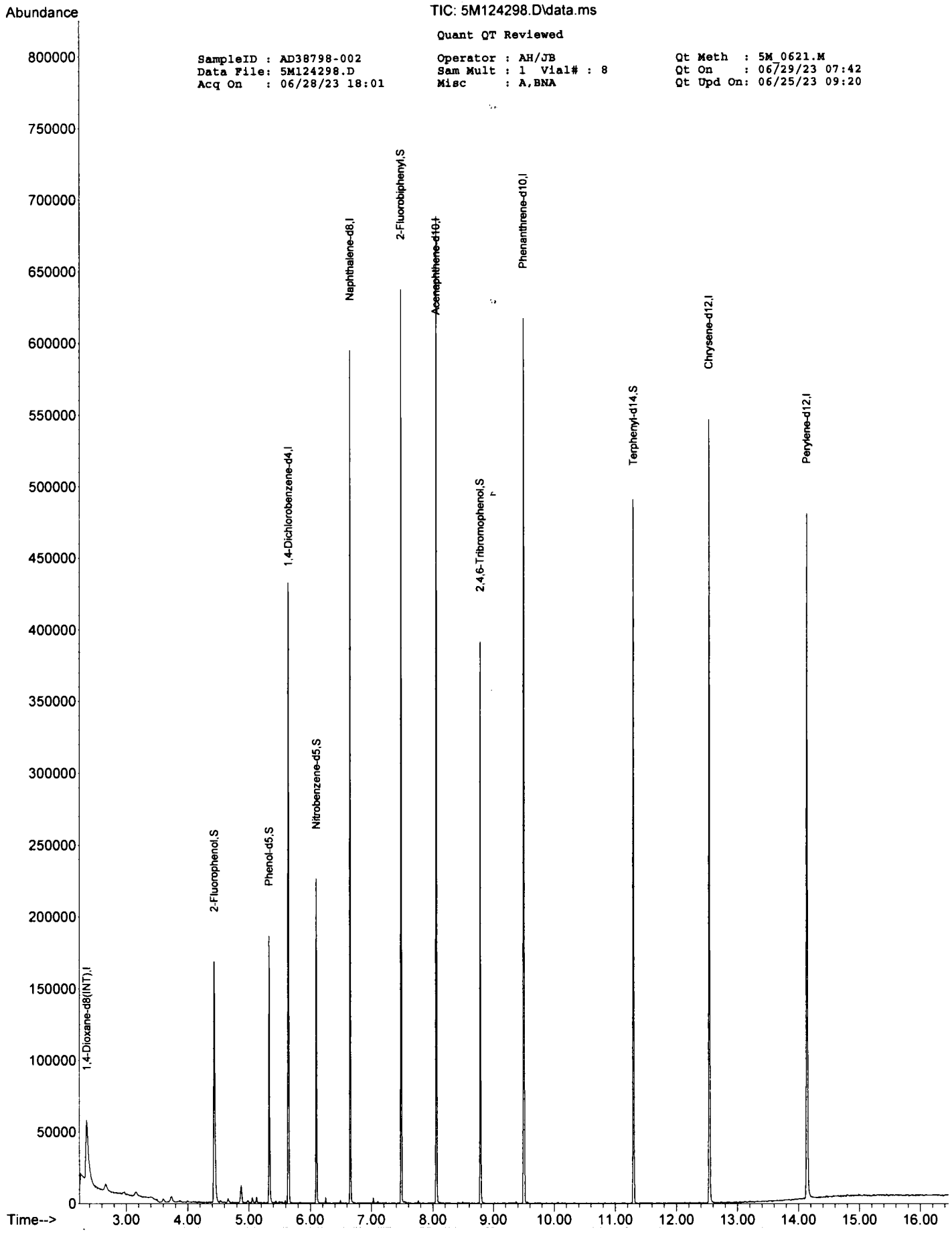
Quantitation Report (QT Reviewed)

SampleID : AD38798-002 Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124298.D Sam Mult : 1 Vial# : 8 Qt On : 06/29/23 07:42
Acq On : 06/28/23 18:01 Misc : A,BNA Qt Upd On: 06/25/23 09:20

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-28-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.355	96	48891	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.646	152	71426	40.00	ng	0.00
31) Naphthalene-d8	6.655	136	246889	40.00	ng	0.00
50) Acenaphthene-d10	8.055	164	136164	40.00	ng	0.00
77) Phenanthrene-d10	9.498	188	243116	40.00	ng	0.00
91) Chrysene-d12	12.537	240	206576	40.00	ng	0.00
103) Perylene-d12	14.140	264	188754	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.433	112	77373	35.95	ng	0.00
Spiked Amount 100.000			Recovery = 35.95%			
16) Phenol-d5	5.331	99	64396	24.45	ng	0.00
Spiked Amount 100.000			Recovery = 24.45%			
32) Nitrobenzene-d5	6.100	128	32066	31.06	ng	0.00
Spiked Amount 50.000			Recovery = 62.12%			
55) 2-Fluorobiphenyl	7.478	172	171611	35.22	ng	0.00
Spiked Amount 50.000			Recovery = 70.44%			
80) 2,4,6-Tribromophenol	8.787	330	40306	66.95	ng	0.00
Spiked Amount 100.000			Recovery = 66.95%			
94) Terphenyl-d14	11.303	244	158075	40.81	ng	0.00
Spiked Amount 50.000			Recovery = 81.62%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M124298.D\data.ms
Quant QT Reviewed
SampleID : AD38798-002
Data File: 5M124298.D
Acq On : 06/28/23 18:01
Operator : AH/JB
Sam Mult : 1 Vial# : 8
Misc : A,BNA
Qt Meth : 5M_0621.M
Qt On : 06/29/23 07:42
Qt Upd On: 06/25/23 09:20
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
Nitrobenzene-d5,S
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38798-002
Client Id: MW-2_6.22.23
Data File: 12M67399.D
Analysis Date: 06/28/23 16:53
Date Rec/Extracted: 06/23/23-06/28/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 697610

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

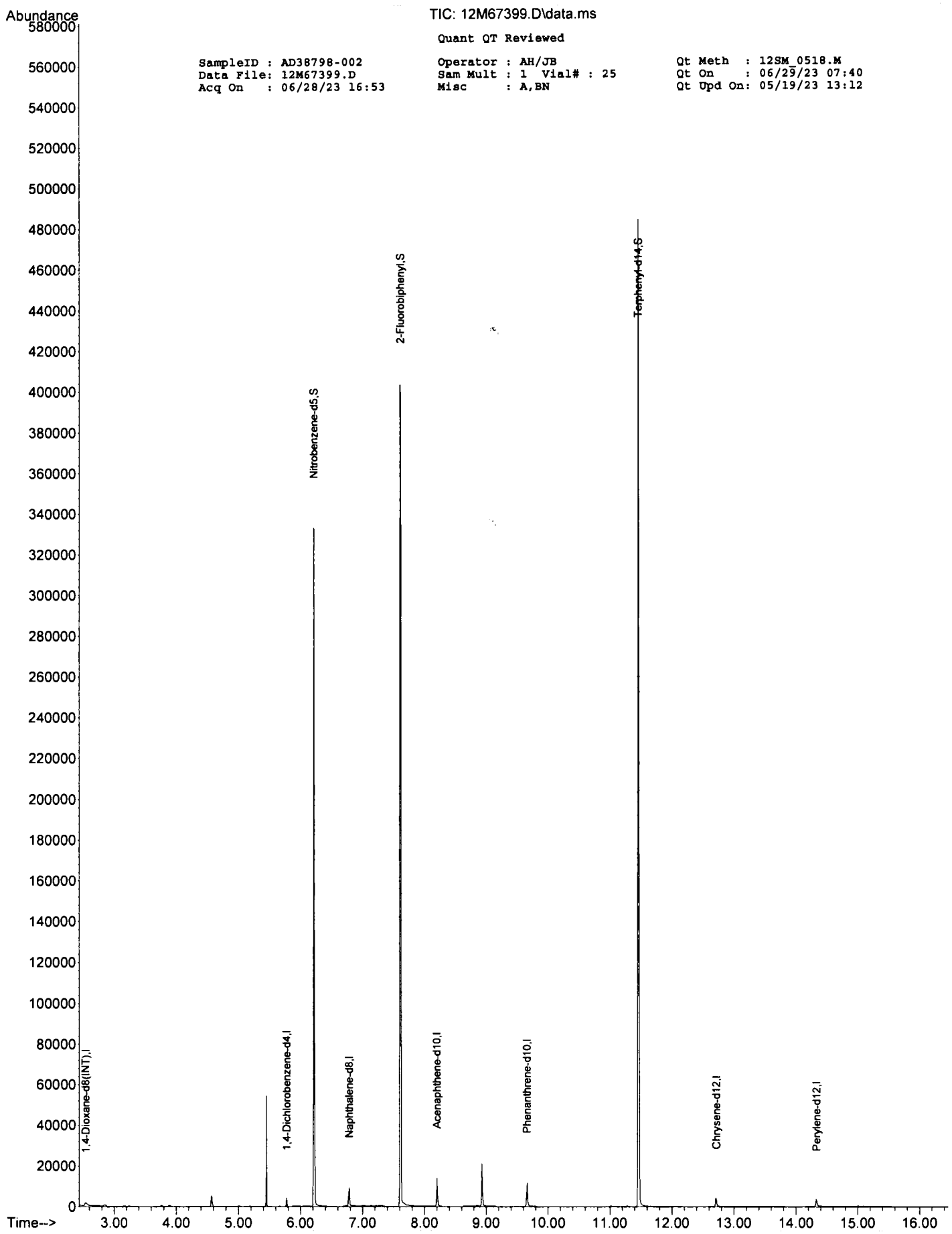
Quantitation Report (QT Reviewed)

SampleID : AD38798-002 Operator : AH/JB Qt Meth : 12SM_0518.M
Data File: 12M67399.D Sam Mult : 1 Vial# : 25 Qt On : 06/29/23 07:40
Acq On : 06/28/23 16:53 Misc : A,BN Qt Upd On: 05/19/23 13:12

Data Path : G:\GcMsData\2023\GCMS_12SM\Data\06-28-23\
Qt Path : G:\GCMSDATA\2023\GCMS_12SM\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.543	96	21538	0.40	ng	0.00
3) 1,4-Dichlorobenzene-d4	5.779	152	23967	0.40	ng	0.00
9) Naphthalene-d8	6.788	136	95420	0.40	ng	0.00
14) Acenaphthene-d10	8.208	164	53383	0.40	ng	0.00
22) Phenanthrene-d10	9.664	188	98629	0.40	ng	0.00
31) Chrysene-d12	12.715	240	41069	0.40	ng	0.00
36) Perylene-d12	14.333	264	36008	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.223	82	1991800	38.86	ng	0.00
Spiked Amount 50.000			Recovery = 77.72%			
17) 2-Fluorobiphenyl	7.618	172	3811521	34.57	ng	0.00
Spiked Amount 50.000			Recovery = 69.14%			
33) Terphenyl-d14	11.466	244	3997407	42.80	ng	0.00
Spiked Amount 50.000			Recovery = 85.60%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 12M67399.D\data.ms
Quant QT Reviewed
SampleID : AD38798-002
Data File: 12M67399.D
Acq On : 06/28/23 16:53
Operator : AH/JB
Sam Mult : 1 Vial# : 25
Misc : A,BN
Qt Meth : 12SM_0518.M
Qt On : 06/29/23 07:40
Qt Upd On: 05/19/23 13:12
1,4-Dioxane-d8(INT),I
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38798-003
Client Id: MW-3_6.22.23
Data File: 5M124302.D
Analysis Date: 06/28/23 19:38
Date Rec/Extracted: 06/23/23-06/28/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U
207-08-9	Benzo[k]fluoranthene	2.0	U				

Worksheet #: 697640

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

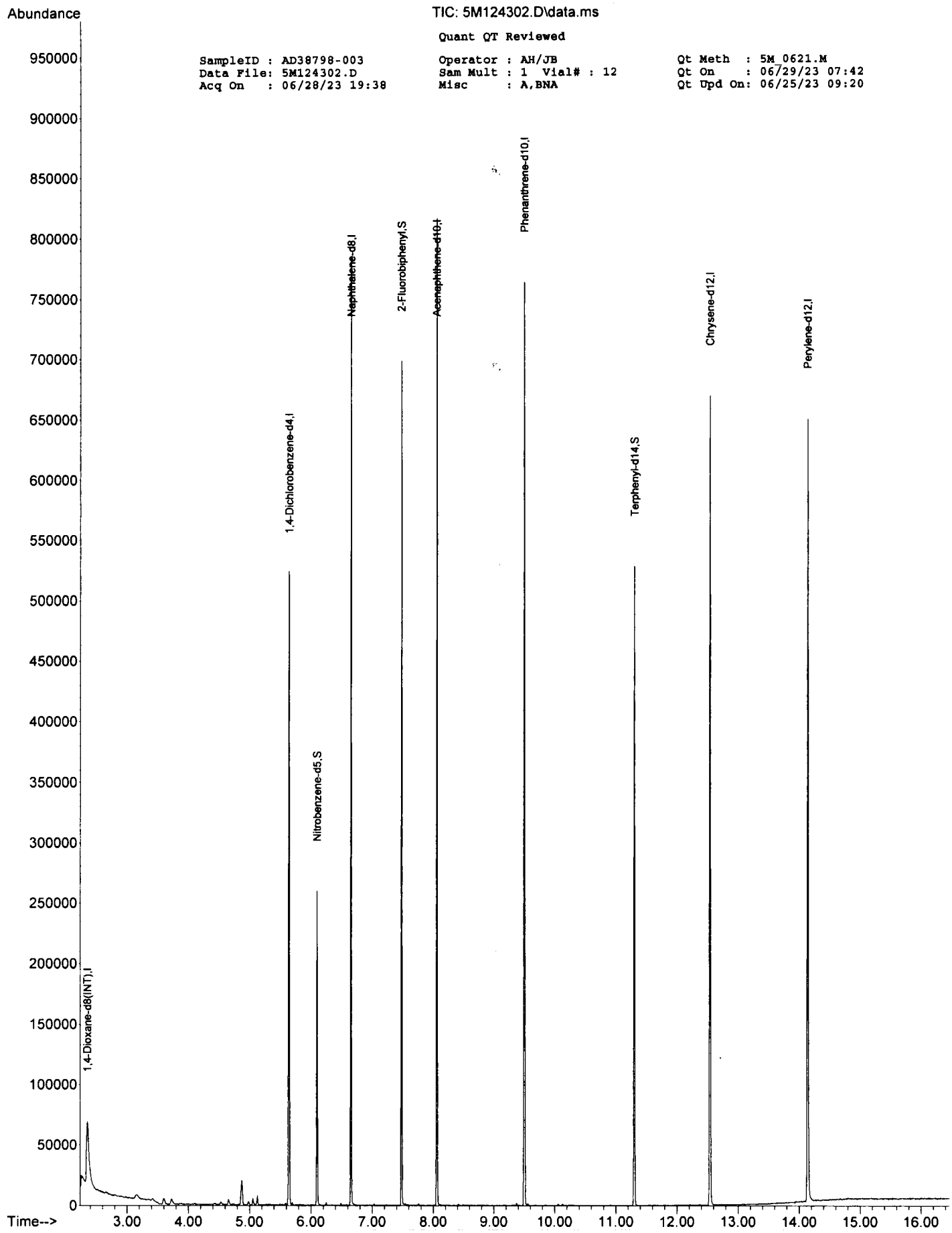
Quantitation Report (QT Reviewed)

SampleID : AD38798-003 Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124302.D Sam Mult : 1 Vial# : 12 Qt On : 06/29/23 07:42
Acq On : 06/28/23 19:38 Misc : A,BNA Qt Upd On: 06/25/23 09:20

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-28-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.355	96	59874	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.646	152	87225	40.00	ng	0.00
31) Naphthalene-d8	6.655	136	304898	40.00	ng	0.00
50) Acenaphthene-d10	8.055	164	169565	40.00	ng	0.00
77) Phenanthrene-d10	9.503	188	308298	40.00	ng	0.00
91) Chrysene-d12	12.542	240	255966	40.00	ng	0.00
103) Perylene-d12	14.140	264	249383	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	0.000	112	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
16) Phenol-d5	0.000	99	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
32) Nitrobenzene-d5	6.100	128	36883	28.93	ng	0.00
Spiked Amount 50.000			Recovery =	57.86%		
55) 2-Fluorobiphenyl	7.478	172	189579	31.25	ng	0.00
Spiked Amount 50.000			Recovery =	62.50%		
80) 2,4,6-Tribromophenol	0.000	330	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
94) Terphenyl-d14	11.303	244	171067	35.65	ng	0.00
Spiked Amount 50.000			Recovery =	71.30%		
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M124302.D\data.ms
Quant QT Reviewed
SampleID : AD38798-003
Data File: 5M124302.D
Acq On : 06/28/23 19:38
Operator : AH/JB
Sam Mult : 1 Vial# : 12
Misc : A,BNA
Qt Meth : 5M_0621.M
Qt On : 06/29/23 07:42
Qt Upd On: 06/25/23 09:20
1,4-Dioxane-d8(INT),I
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38798-004(MS:AD38
Client Id: MW-2_6.22.23-MS
Data File: 5M124299.D
Analysis Date: 06/28/23 18:25
Date Rec/Extracted: 06/23/23-06/28/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	93	50-32-8	Benzo[a]pyrene	2.0	100
95-94-3	1,2,4,5-Tetrachlorobenzen	2.0	93	205-99-2	Benzo[b]fluoranthene	2.0	110
123-91-1	1,4-Dioxane	0.50	49	191-24-2	Benzo[g,h,i]perylene	2.0	97
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	99	207-08-9	Benzo[k]fluoranthene	2.0	110
95-95-4	2,4,5-Trichlorophenol	2.0	98	111-91-1	bis(2-Chloroethoxy)metha	2.0	86
88-06-2	2,4,6-Trichlorophenol	2.0	100	111-44-4	bis(2-Chloroethyl)ether	0.51	75
120-83-2	2,4-Dichlorophenol	0.62	90	108-60-1	bis(2-chloroisopropyl)ethe	2.0	55
105-67-9	2,4-Dimethylphenol	1.1	71	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	100
51-28-5	2,4-Dinitrophenol	10	110	85-68-7	Butylbenzylphthalate	2.0	110
121-14-2	2,4-Dinitrotoluene	2.0	100	105-60-2	Caprolactam	2.0	39
606-20-2	2,6-Dinitrotoluene	2.0	98	86-74-8	Carbazole	2.0	100
91-58-7	2-Chloronaphthalene	2.0	89	218-01-9	Chrysene	2.0	95
95-57-8	2-Chlorophenol	2.0	75	53-70-3	Dibenzo[a,h]anthracene	2.0	100
91-57-6	2-Methylnaphthalene	2.0	97	132-64-9	Dibenzofuran	0.59	96
95-48-7	2-Methylphenol	0.59	67	84-66-2	Diethylphthalate	2.0	97
88-74-4	2-Nitroaniline	2.0	81	131-11-3	Dimethylphthalate	2.0	92
88-75-5	2-Nitrophenol	2.0	95	84-74-2	Di-n-butylphthalate	0.72	110
106-44-5	3&4-Methylphenol	0.64	65	117-84-0	Di-n-octylphthalate	2.0	100
91-94-1	3,3'-Dichlorobenzidine	2.0	66	206-44-0	Fluoranthene	2.0	100
99-09-2	3-Nitroaniline	2.0	110	86-73-7	Fluorene	2.0	96
534-52-1	4,6-Dinitro-2-methylpheno	10	110	118-74-1	Hexachlorobenzene	2.0	93
101-55-3	4-Bromophenyl-phenyleth	2.0	97	87-68-3	Hexachlorobutadiene	2.0	83
59-50-7	4-Chloro-3-methylphenol	2.0	92	77-47-4	Hexachlorocyclopentadie	6.8	96
106-47-8	4-Chloroaniline	0.59	120	67-72-1	Hexachloroethane	2.0	77
7005-72-3	4-Chlorophenyl-phenyleth	2.0	96	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	100
100-01-6	4-Nitroaniline	2.0	94	78-59-1	Isophorone	2.0	78
100-02-7	4-Nitrophenol	2.0	39	91-20-3	Naphthalene	0.50	82
83-32-9	Acenaphthene	2.0	94	98-95-3	Nitrobenzene	2.0	88
208-96-8	Acenaphthylene	2.0	100	621-64-7	N-Nitroso-di-n-propylamin	0.61	85
98-86-2	Acetophenone	2.0	94	86-30-6	n-Nitrosodiphenylamine	2.0	74
120-12-7	Anthracene	2.0	94	87-86-5	Pentachlorophenol	10	110
1912-24-9	Atrazine	2.0	97	85-01-8	Phenanthrene	2.0	95
100-52-7	Benzaldehyde	2.0	54	108-95-2	Phenol	2.0	36
56-55-3	Benzo[a]anthracene	2.0	95	129-00-0	Pyrene	2.0	98

Worksheet #: 699407

Total Target Concentration 6100

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

SampleID : AD38798-004(MS:AD38 Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124299.D Sam Mult : 1 Vial# : 9 Qt On : 06/29/23 07:42
Acq On : 06/28/23 18:25 Misc : A,BNA Qt Upd On: 06/25/23 09:20

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-28-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.350	96	55597	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.646	152	76596	40.00	ng	0.00
31) Naphthalene-d8	6.655	136	260607	40.00	ng	0.00
50) Acenaphthene-d10	8.060	164	143211	40.00	ng	0.00
77) Phenanthrene-d10	9.503	188	259772	40.00	ng	0.00
91) Chrysene-d12	12.548	240	247941	40.00	ng	0.00
103) Perylene-d12	14.145	264	230506	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.433	112	106169m	43.38	ng	0.00
Spiked Amount 100.000			Recovery = 43.38%			
16) Phenol-d5	5.336	99	93803	31.32	ng	0.00
Spiked Amount 100.000			Recovery = 31.32%			
32) Nitrobenzene-d5	6.100	128	50100	45.97	ng	0.00
Spiked Amount 50.000			Recovery = 91.94%			
55) 2-Fluorobiphenyl	7.483	172	240112m	46.86	ng	0.00
Spiked Amount 50.000			Recovery = 93.72%			
80) 2,4,6-Tribromophenol	8.792	330	65857m	102.37	ng	0.00
Spiked Amount 100.000			Recovery = 102.37%			
94) Terphenyl-d14	11.303	244	235615	50.69	ng	0.00
Spiked Amount 50.000			Recovery = 101.38%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.387	88	71768m	48.7108	ng	
9) Pyridine	2.830	79	51765m	17.4810	ng	
10) N-Nitrosodimethylamine	2.756	74	123712m	55.1740	ng	
12) Benzaldehyde	5.272	77	116589m	54.3524	ng	
13) Aniline	5.363	93	257729m	74.6039	ng	
14) Pentachloroethane	5.400	117	68999m	72.0807	ng	
15) bis(2-Chloroethyl)ether	5.427	93	203018m	75.2530	ng	
17) Phenol	5.347	94	130517m	36.0293	ng	
18) 2-Chlorophenol	5.464	128	197614m	75.2000	ng	
19) N-Decane	5.507	57	184286m	66.7421	ng	
20) 1,3-Dichlorobenzene	5.592	146	224010m	74.1410	ng	
22) 1,4-Dichlorobenzene	5.656	146	233722m	77.6367	ng	
23) 1,2-Dichlorobenzene	5.785	146	219059m	77.3861	ng	
24) Benzyl alcohol	5.763	108	128696m	77.1734	ng	
25) bis(2-chloroisopropyl)...	5.875	45	171700m	55.4977	ng	
26) 2-Methylphenol	5.854	108	154441m	67.1861	ng	
27) Acetophenone	5.977	105	316899m	94.1234	ng	
28) Hexachloroethane	6.057	117	81958	76.5665	ng	89
29) N-Nitroso-di-n-propyla...	5.982	70	148962m	85.4023	ng	
30) 3&4-Methylphenol	5.982	108	156319m	64.8024	ng	
33) Nitrobenzene	6.116	77	217501m	87.8236	ng	
34) Isophorone	6.303	82	346767m	77.8996	ng	
35) 2-Nitrophenol	6.362	139	118509m	95.3203	ng	
36) 2,4-Dimethylphenol	6.394	107	164736m	71.4002	ng	
37) Benzoic Acid	6.474	105	64854m	45.1748	ng	
38) bis(2-Chloroethoxy)met...	6.468	93	240302m	85.6287	ng	
39) 2,4-Dichlorophenol	6.549	162	181774m	89.8213	ng	
40) 1,2,4-Trichlorobenzene	6.607	180	201726m	85.3130	ng	
41) Naphthalene	6.671	128	614931m	82.0049	ng	
42) 4-Chloroaniline	6.714	127	274564m	115.4051	ng	
43) Hexachlorobutadiene	6.757	225	111595m	82.5343	ng	
44) Caprolactam	6.987	113	24467m	38.5512	ng	
45) 4-Chloro-3-methylphenol	7.072	107	170285m	91.5143	ng	
46) 2-Methylnaphthalene	7.195	142	460534m	97.3642	ng	
47) 1-Methylnaphthalene	7.275	142	436393m	98.8061	ng	
48) Methylnaphthalenes (To...	7.275	142	902600m	197.6115	ng	
49) 1,1'-Biphenyl	7.564	154	551379m	93.2342	ng	
51) 1,2,4,5-Tetrachloroben...	7.329	216	217877m	92.9418	ng	
52) Hexachlorocyclopentadiene	7.313	237	93670	95.7666	ng	99
53) 2,4,6-Trichlorophenol	7.414	196	143741m	101.9390	ng	
54) 2,4,5-Trichlorophenol	7.446	196	148691m	98.3336	ng	
56) 2-Chloronaphthalene	7.590	162	389693m	88.8632	ng	
57) 1,4-Dimethylnaphthalene	7.863	156	334717m	91.3852	ng	
58) Dimethylnaphthalenes (...	7.863	156	335296	91.5433	ng	87
59) Diphenyl Ether	7.649	170	288729m	94.9825	ng	
60) 2-Nitroaniline	7.670	65	105885m	80.5840	ng	
61) Coumarin	7.852	146	169969m	95.8452	ng	
62) Acenaphthylene	7.938	152	616636m	100.5465	ng	
63) Dimethylphthalate	7.809	163	433336m	92.4345	ng	
64) 2,6-Dinitrotoluene	7.873	165	102861m	97.9753	ng	
65) Acenaphthene	8.087	153	406077m	93.6846	ng	

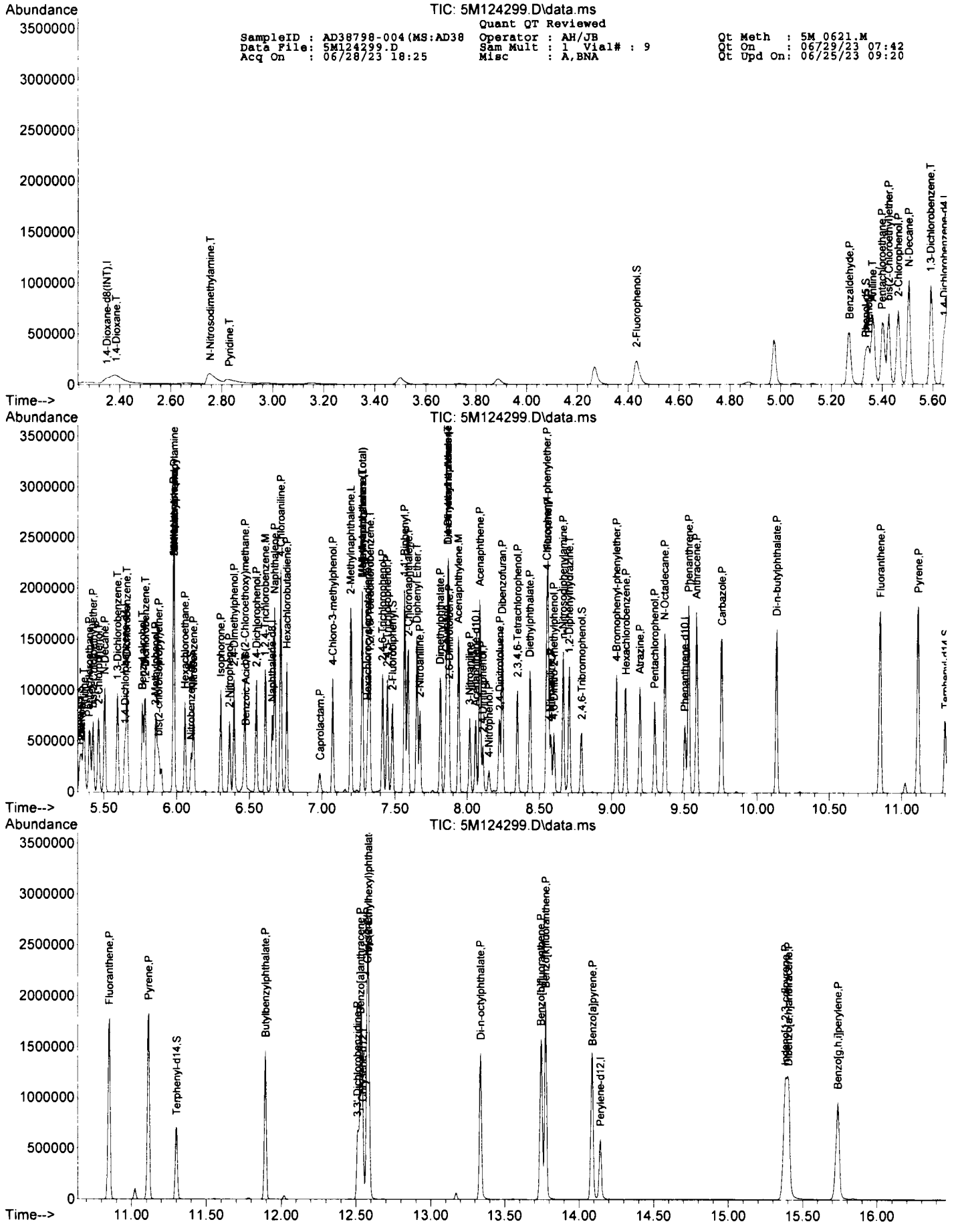
Quantitation Report (QT Reviewed)

SampleID : AD38798-004(MS:AD38 Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124299.D Sam Mult : 1 Vial# : 9 Qt On : 06/29/23 07:42
Acq On : 06/28/23 18:25 Misc : A,BNA Qt Upd On: 06/25/23 09:20

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-28-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.018	138	109700m	105.2632	ng	
67)	2,4-Dinitrophenol	8.109	184	59085m	107.2290	ng	
68)	Dibenzofuran	8.242	168	609374m	95.6067	ng	
69)	2,4-Dinitrotoluene	8.226	165	131886m	99.6277	ng	
70)	4-Nitrophenol	8.151	65	28509m	39.2060	ng	
71)	2,3,4,6-Tetrachlorophenol	8.349	232	121259m	98.7706	ng	
72)	Fluorene	8.557	166	484168m	95.9618	ng	
73)	4-Chlorophenyl-phenyle...	8.552	204	241564m	96.2425	ng	
74)	Diethylphthalate	8.434	149	435100m	97.3823	ng	
75)	4-Nitroaniline	8.579	138	107991m	93.8556	ng	
76)	Atrazine	9.193	200	122780m	96.9216	ng	
78)	4,6-Dinitro-2-methylph...	8.600	198	87508m	112.3940	ng	
79)	n-Nitrosodiphenylamine	8.664	169	300301m	73.8144	ng	
81)	1,2-Diphenylhydrazine	8.707	77	443291m	89.8502	ng	
82)	4-Bromophenyl-phenylether	9.033	248	136349m	96.5394	ng	
83)	Hexachlorobenzene	9.097	284	142638m	92.7115	ng	
84)	N-Octadecane	9.364	57	270303m	127.4260	ng	
85)	Pentachlorophenol	9.294	266	98539m	107.7336	ng	
86)	Phenanthrene	9.530	178	678595m	94.8565	ng	
87)	Anthracene	9.583	178	671373m	94.0749	ng	
88)	Carbazole	9.759	167	672578m	102.1310	ng	
89)	Di-n-butylphthalate	10.139	149	803943m	111.2291	ng	
90)	Fluoranthene	10.854	202	794745m	102.0835	ng	
92)	Pyrene	11.116	202	818504m	97.6193	ng	
97)	Butylbenzylphthalate	11.896	149	343596m	108.2969	ng	
99)	3,3'-Dichlorobenzidine	12.511	252	150507m	66.0053	ng	
100)	Benzo[a]anthracene	12.532	228	753357m	94.7511	ng	
101)	Chrysene	12.580	228	712592m	95.3550	ng	
102)	bis(2-Ethylhexyl)phtha...	12.585	149	466758m	104.0236	ng	
104)	Di-n-octylphthalate	13.339	149	775435m	100.3101	ng	
105)	Benzo[b]fluoranthene	13.745	252	740059	105.3426	ng	98
106)	Benzo[k]fluoranthene	13.777	252	738375m	105.7809	ng	
107)	Benzo[a]pyrene	14.092	252	645572m	104.7327	ng	
108)	Indeno[1,2,3-cd]pyrene	15.385	276	774817m	100.7351	ng	
109)	Dibenzo[a,h]anthracene	15.406	278	651757m	103.1001	ng	
110)	Benzo[g,h,i]perylene	15.737	276	603348m	97.2045	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M124299.D\data.ms
Quant QT Reviewed
SampleID : AD38798-004(MS:AD38
Data File: 5M124299.D
Acq On : 06/28/23 18:25
Operator : AH/JB
Sam Mult : 1 Vial# : 9
Misc : A,BNA
Qt Meth : 5M_0621.M
Qt On : 06/29/23 07:42
Qt Upd On: 06/25/23 09:20
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38798-005(MSD:AD
Client Id: MW-2_6.22.23-MSD
Data File: 5M124300.D
Analysis Date: 06/28/23 18:49
Date Rec/Extracted: 06/23/23-06/28/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	88	50-32-8	Benzo[a]pyrene	2.0	100
95-94-3	1,2,4,5-Tetrachlorobenzen	2.0	89	205-99-2	Benzo[b]fluoranthene	2.0	100
123-91-1	1,4-Dioxane	0.50	42	191-24-2	Benzo[g,h,i]perylene	2.0	95
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	97	207-08-9	Benzo[k]fluoranthene	2.0	100
95-95-4	2,4,5-Trichlorophenol	2.0	99	111-91-1	bis(2-Chloroethoxy)metha	2.0	84
88-06-2	2,4,6-Trichlorophenol	2.0	100	111-44-4	bis(2-Chloroethyl)ether	0.51	76
120-83-2	2,4-Dichlorophenol	0.62	92	108-60-1	bis(2-chloroisopropyl)ethe	2.0	54
105-67-9	2,4-Dimethylphenol	1.1	80	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	100
51-28-5	2,4-Dinitrophenol	10	110	85-68-7	Butylbenzylphthalate	2.0	100
121-14-2	2,4-Dinitrotoluene	2.0	100	105-60-2	Caprolactam	2.0	36
606-20-2	2,6-Dinitrotoluene	2.0	96	86-74-8	Carbazole	2.0	98
91-58-7	2-Chloronaphthalene	2.0	88	218-01-9	Chrysene	2.0	93
95-57-8	2-Chlorophenol	2.0	79	53-70-3	Dibenzo[a,h]anthracene	2.0	98
91-57-6	2-Methylnaphthalene	2.0	93	132-64-9	Dibenzofuran	0.59	94
95-48-7	2-Methylphenol	0.59	72	84-66-2	Diethylphthalate	2.0	96
88-74-4	2-Nitroaniline	2.0	80	131-11-3	Dimethylphthalate	2.0	92
88-75-5	2-Nitrophenol	2.0	93	84-74-2	Di-n-butylphthalate	0.72	110
106-44-5	3&4-Methylphenol	0.64	68	117-84-0	Di-n-octylphthalate	2.0	100
91-94-1	3,3'-Dichlorobenzidine	2.0	85	206-44-0	Fluoranthene	2.0	100
99-09-2	3-Nitroaniline	2.0	100	86-73-7	Fluorene	2.0	95
534-52-1	4,6-Dinitro-2-methylpheno	10	110	118-74-1	Hexachlorobenzene	2.0	92
101-55-3	4-Bromophenyl-phenyleth	2.0	96	87-68-3	Hexachlorobutadiene	2.0	80
59-50-7	4-Chloro-3-methylphenol	2.0	97	77-47-4	Hexachlorocyclopentadie	6.8	100
106-47-8	4-Chloroaniline	0.59	110	67-72-1	Hexachloroethane	2.0	74
7005-72-3	4-Chlorophenyl-phenyleth	2.0	95	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	98
100-01-6	4-Nitroaniline	2.0	92	78-59-1	Isophorone	2.0	77
100-02-7	4-Nitrophenol	2.0	40	91-20-3	Naphthalene	0.50	80
83-32-9	Acenaphthene	2.0	92	98-95-3	Nitrobenzene	2.0	85
208-96-8	Acenaphthylene	2.0	98	621-64-7	N-Nitroso-di-n-propylamin	0.61	85
98-86-2	Acetophenone	2.0	91	86-30-6	n-Nitrosodiphenylamine	2.0	77
120-12-7	Anthracene	2.0	94	87-86-5	Pentachlorophenol	10	100
1912-24-9	Atrazine	2.0	94	85-01-8	Phenanthrene	2.0	92
100-52-7	Benzaldehyde	2.0	53	108-95-2	Phenol	2.0	35
56-55-3	Benzo[a]anthracene	2.0	93	129-00-0	Pyrene	2.0	94

Worksheet #: 699407

Total Target Concentration 6000

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

SampleID : AD38798-005(MSD:AD3 Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124300.D Sam Mult : 1 Vial# : 10 Qt On : 06/29/23 07:42
Acq On : 06/28/23 18:49 Misc : A,BNA Qt Upd On: 06/25/23 09:20

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-28-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.355	96	55921	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.646	152	78906	40.00	ng	0.00
31) Naphthalene-d8	6.655	136	271401	40.00	ng	0.00
50) Acenaphthene-d10	8.060	164	148246	40.00	ng	0.00
77) Phenanthrene-d10	9.503	188	268514	40.00	ng	0.00
91) Chrysene-d12	12.548	240	256415m	40.00	ng	0.00
103) Perylene-d12	14.145	264	238049	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.433	112	109758m	44.59	ng	0.00
Spiked Amount 100.000			Recovery = 44.59%			
16) Phenol-d5	5.336	99	90744	30.13	ng	0.00
Spiked Amount 100.000			Recovery = 30.13%			
32) Nitrobenzene-d5	6.100	128	49209	43.36	ng	0.00
Spiked Amount 50.000			Recovery = 86.72%			
55) 2-Fluorobiphenyl	7.483	172	243457m	45.90	ng	0.00
Spiked Amount 50.000			Recovery = 91.80%			
80) 2,4,6-Tribromophenol	8.792	330	67566m	101.61	ng	0.00
Spiked Amount 100.000			Recovery = 101.61%			
94) Terphenyl-d14	11.303	244	238470	49.60	ng	0.00
Spiked Amount 50.000			Recovery = 99.20%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.392	88	62533m	42.1968	ng	
9) Pyridine	2.809	79	182128m	61.1480	ng	
10) N-Nitrosodimethylamine	2.756	74	115061m	51.0184	ng	
12) Benzaldehyde	5.272	77	114219m	52.9390	ng	
13) Aniline	5.363	93	303074m	87.2215	ng	
14) Pentachloroethane	5.405	117	69181m	71.8521	ng	
15) bis(2-Chloroethyl)ether	5.427	93	205005m	75.5493	ng	
17) Phenol	5.347	94	128533m	35.2760	ng	
18) 2-Chlorophenol	5.464	128	207757m	78.6018	ng	
19) N-Decane	5.507	57	182237m	65.6176	ng	
20) 1,3-Dichlorobenzene	5.592	146	223213m	73.4492	ng	
22) 1,4-Dichlorobenzene	5.662	146	229397m	73.9693	ng	
23) 1,2-Dichlorobenzene	5.785	146	218406m	74.8967	ng	
24) Benzyl alcohol	5.763	108	123822m	72.0770	ng	
25) bis(2-chloroisopropyl)...	5.875	45	173416m	54.4114	ng	
26) 2-Methylphenol	5.859	108	171071m	72.2419	ng	
27) Acetophenone	5.982	105	317044m	91.4097	ng	
28) Hexachloroethane	6.057	117	81353	73.7763	ng	87
29) N-Nitroso-di-n-propyla...	5.982	70	152250m	84.7320	ng	
30) 3&4-Methylphenol	5.982	108	168801m	67.9282	ng	
33) Nitrobenzene	6.116	77	220243m	85.3938	ng	
34) Isophorone	6.303	82	356068m	76.8078	ng	
35) 2-Nitrophenol	6.362	139	120444m	93.0238	ng	
36) 2,4-Dimethylphenol	6.394	107	191930m	79.8783	ng	
37) Benzoic Acid	6.468	105	60081m	40.6318	ng	
38) bis(2-Chloroethoxy)met...	6.468	93	246785m	84.4413	ng	
39) 2,4-Dichlorophenol	6.549	162	192923m	91.5390	ng	
40) 1,2,4-Trichlorobenzene	6.613	180	204699	83.1273	ng	95
41) Naphthalene	6.671	128	623706	79.8671	ng	98
42) 4-Chloroaniline	6.714	127	278425	112.3736	ng	97
43) Hexachlorobutadiene	6.757	225	112508	79.9002	ng	96
44) Caprolactam	6.987	113	23842m	36.0724	ng	
45) 4-Chloro-3-methylphenol	7.072	107	188146	97.0917	ng	75
46) 2-Methylnaphthalene	7.195	142	459008m	93.1821	ng	
47) 1-Methylnaphthalene	7.275	142	428014m	93.0547	ng	
48) Methylnaphthalenes (To...	7.275	142	889490m	186.9961	ng	
49) 1,1'-Biphenyl	7.564	154	544642m	88.4323	ng	
51) 1,2,4,5-Tetrachloroben...	7.328	216	216783m	89.3343	ng	
52) Hexachlorocyclopentadiene	7.312	237	104552	101.9627	ng	100
53) 2,4,6-Trichlorophenol	7.414	196	148027m	101.4131	ng	
54) 2,4,5-Trichlorophenol	7.446	196	154666m	98.8110	ng	
56) 2-Chloronaphthalene	7.590	162	398488m	87.7825	ng	
57) 1,4-Dimethylnaphthalene	7.863	156	339634	89.5783	ng	85
58) Dimethylnaphthalenes (...	7.863	156	339634	89.5783	ng	85
59) Diphenyl Ether	7.649	170	293122m	93.1526	ng	
60) 2-Nitroaniline	7.670	65	108350m	79.6593	ng	
61) Coumarin	7.852	146	173167m	94.3321	ng	
62) Acenaphthylene	7.938	152	625039m	98.4552	ng	
63) Dimethylphthalate	7.815	163	446494m	92.0065	ng	
64) 2,6-Dinitrotoluene	7.868	165	104347m	96.0150	ng	
65) Acenaphthene	8.087	153	410801m	91.5556	ng	

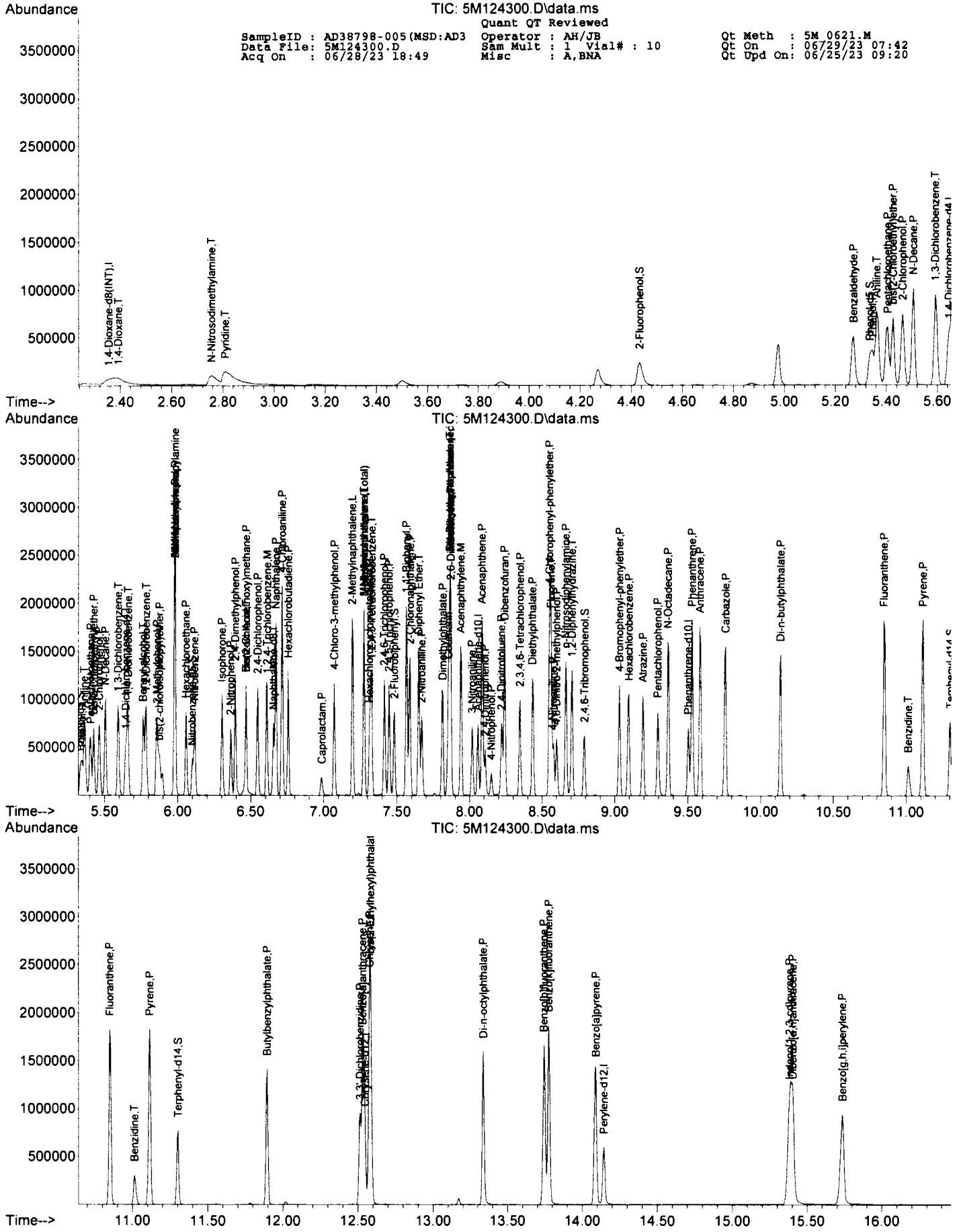
Quantitation Report (QT Reviewed)

SampleID : AD38798-005(MSD:AD3 Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124300.D Sam Mult : 1 Vial# : 10 Qt On : 06/29/23 07:42
Acq On : 06/28/23 18:49 Misc : A,BNA Qt Upd On: 06/25/23 09:20

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-28-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.018	138	113034m	104.7786	ng	
67)	2,4-Dinitrophenol	8.108	184	63566m	110.4481	ng	
68)	Dibenzofuran	8.242	168	621165m	94.1467	ng	
69)	2,4-Dinitrotoluene	8.221	165	136586m	99.6738	ng	
70)	4-Nitrophenol	8.151	65	29933m	39.7662	ng	
71)	2,3,4,6-Tetrachlorophenol	8.349	232	123265m	96.9944	ng	
72)	Fluorene	8.563	166	494195m	94.6224	ng	
73)	4-Chlorophenyl-phenyle...	8.552	204	247896m	95.4108	ng	
74)	Diethylphthalate	8.434	149	443731m	95.9410	ng	
75)	4-Nitroaniline	8.579	138	109172m	91.6594	ng	
76)	Atrazine	9.193	200	123560m	94.2246	ng	
78)	4,6-Dinitro-2-methylph...	8.600	198	89881m	111.8117	ng	
79)	n-Nitrosodiphenylamine	8.664	169	325519m	77.4081	ng	
81)	1,2-Diphenylhydrazine	8.707	77	454268m	89.0775	ng	
82)	4-Bromophenyl-phenylether	9.033	248	140234m	96.0575	ng	
83)	Hexachlorobenzene	9.097	284	145702m	91.6198	ng	
84)	N-Octadecane	9.364	57	274976m	125.4086	ng	
85)	Pentachlorophenol	9.294	266	96431m	103.0671	ng	
86)	Phenanthrene	9.530	178	683044m	92.3699	ng	
87)	Anthracene	9.583	178	695492m	94.2817	ng	
88)	Carbazole	9.759	167	665531m	97.7706	ng	
89)	Di-n-butylphthalate	10.139	149	800787	107.1854	ng	97
90)	Fluoranthene	10.849	202	805783	100.1317	ng	93
92)	Pyrene	11.116	202	819189m	94.4722	ng	
93)	Benzidine	11.015	184	115232m	35.6055	ng	
97)	Butylbenzylphthalate	11.896	149	343946m	104.8246	ng	
99)	3,3'-Dichlorobenzidine	12.516	252	201370m	85.3929	ng	
100)	Benzo[a]anthracene	12.532	228	768480m	93.4590	ng	
101)	Chrysene	12.580	228	715686m	92.6041	ng	
102)	bis(2-Ethylhexyl)phtha...	12.585	149	476662m	102.7201	ng	
104)	Di-n-octylphthalate	13.339	149	793987	99.6104	ng	100
105)	Benzo[b]fluoranthene	13.745	252	739905	101.9834	ng	99
106)	Benzo[k]fluoranthene	13.777	252	727367m	100.9020	ng	
107)	Benzo[a]pyrene	14.092	252	668162m	104.9628	ng	
108)	Indeno[1,2,3-cd]pyrene	15.385	276	776135m	97.7090	ng	
109)	Dibenzo[a,h]anthracene	15.406	278	642371m	98.3955	ng	
110)	Benzo[g,h,i]perylene	15.737	276	607644m	94.7946	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed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TIC: 5M124300.D\data.ms
Quant QT Reviewed
SampleID : AD38798-005(MSD:AD3
Data File: 5M124300.D
Acq On : 06/28/23 18:49
Operator : AH/JB
Sam Mult : 1 Vial# : 10
Misc : A,BNA
Qt Meth : 5M_0621.M
Qt On : 06729/23 07:42
Qt Upd On: 06/25/23 09:20
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
1,3-Dichlorobenzene,T
Time-->
Abundance
TIC: 5M124300.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Methylnaphthalene,L
Isophorone,P
Acenaphthylene,M
Acenaphthene,P
Dibenzofuran,P
Diethylphthalate,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->
Abundance
TIC: 5M124300.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38798-006
Client Id: DUP-1
Data File: 5M124303.D
Analysis Date: 06/28/23 20:02
Date Rec/Extracted: 06/23/23-06/28/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	U	50-32-8	Benzo[a]pyrene	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	205-99-2	Benzo[b]fluoranthene	2.0	U
123-91-1	1,4-Dioxane	0.50	U	191-24-2	Benzo[g,h,i]perylene	2.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	207-08-9	Benzo[k]fluoranthene	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U	111-91-1	bis(2-Chloroethoxy)methan	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	111-44-4	bis(2-Chloroethyl)ether	0.51	U
120-83-2	2,4-Dichlorophenol	0.62	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
105-67-9	2,4-Dimethylphenol	1.1	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	85-68-7	Butylbenzylphthalate	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	105-60-2	Caprolactam	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	86-74-8	Carbazole	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
95-57-8	2-Chlorophenol	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	132-64-9	Dibenzofuran	0.59	U
95-48-7	2-Methylphenol	0.59	U	84-66-2	Diethylphthalate	2.0	U
88-74-4	2-Nitroaniline	2.0	U	131-11-3	Dimethylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	84-74-2	Di-n-butylphthalate	0.72	U
106-44-5	3&4-Methylphenol	0.64	U	117-84-0	Di-n-octylphthalate	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	206-44-0	Fluoranthene	2.0	U
99-09-2	3-Nitroaniline	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	6.8	U
106-47-8	4-Chloroaniline	0.59	U	67-72-1	Hexachloroethane	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
100-01-6	4-Nitroaniline	2.0	U	78-59-1	Isophorone	2.0	U
100-02-7	4-Nitrophenol	2.0	U	91-20-3	Naphthalene	0.50	U
83-32-9	Acenaphthene	2.0	U	98-95-3	Nitrobenzene	2.0	U
208-96-8	Acenaphthylene	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.61	U
98-86-2	Acetophenone	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
120-12-7	Anthracene	2.0	U	87-86-5	Pentachlorophenol	10	U
1912-24-9	Atrazine	2.0	U	85-01-8	Phenanthrene	2.0	U
100-52-7	Benzaldehyde	2.0	U	108-95-2	Phenol	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 697606

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

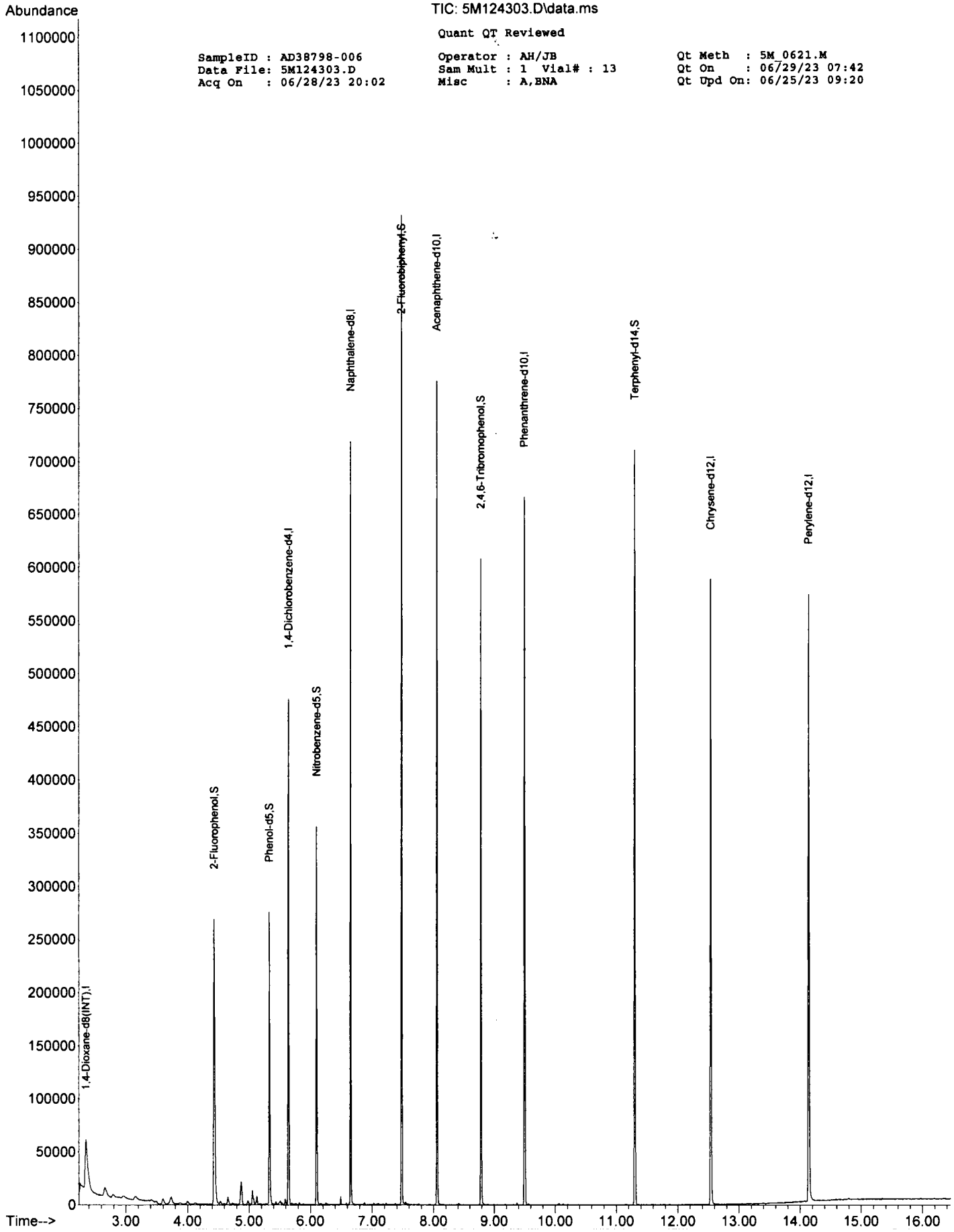
Quantitation Report (QT Reviewed)

SampleID : AD38798-006 Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124303.D Sam Mult : 1 Vial# : 13 Qt On : 06/29/23 07:42
Acq On : 06/28/23 20:02 Misc : A,BNA Qt Upd On: 06/25/23 09:20

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-28-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.350	96	54492	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.646	152	78215	40.00	ng	0.00
31) Naphthalene-d8	6.655	136	278786	40.00	ng	0.00
50) Acenaphthene-d10	8.055	164	154759	40.00	ng	0.00
77) Phenanthrene-d10	9.498	188	273045	40.00	ng	0.00
91) Chrysene-d12	12.543	240	233333	40.00	ng	0.00
103) Perylene-d12	14.140	264	223596	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.433	112	120494	50.23	ng	0.00
Spiked Amount 100.000			Recovery = 50.23%			
16) Phenol-d5	5.331	99	95809	32.64	ng	0.00
Spiked Amount 100.000			Recovery = 32.64%			
32) Nitrobenzene-d5	6.100	128	50640	43.44	ng	0.00
Spiked Amount 50.000			Recovery = 86.88%			
55) 2-Fluorobiphenyl	7.478	172	253539	45.79	ng	0.00
Spiked Amount 50.000			Recovery = 91.58%			
80) 2,4,6-Tribromophenol	8.787	330	62246	92.06	ng	0.00
Spiked Amount 100.000			Recovery = 92.06%			
94) Terphenyl-d14	11.303	244	231488	52.92	ng	0.00
Spiked Amount 50.000			Recovery = 105.84%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M124303.D\data.ms
Quant QT Reviewed
SampleID : AD38798-006
Data File: 5M124303.D
Acq On : 06/28/23 20:02
Operator : AH/JB
Sam Mult : 1 Vial# : 13
Misc : A,BNA
Qt Meth : 5M_0621.M
Qt On : 06/29/23 07:42
Qt Upd On: 06/25/23 09:20
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38798-006
Client Id: DUP-1
Data File: 12M67400.D
Analysis Date: 06/28/23 17:14
Date Rec/Extracted: 06/23/23-06/28/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 697610

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

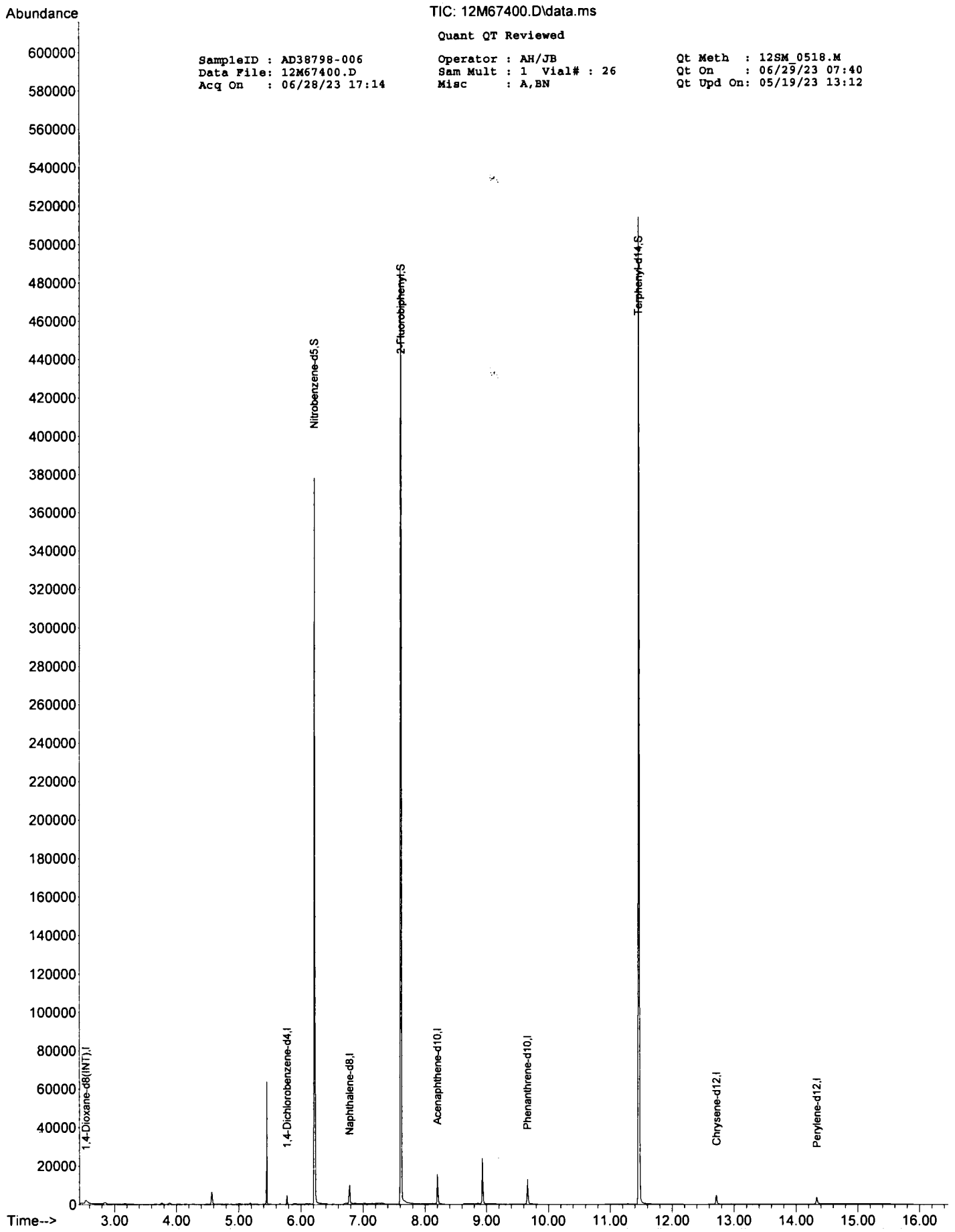
Quantitation Report (QT Reviewed)

SampleID : AD38798-006 Operator : AH/JB Qt Meth : 12SM_0518.M
Data File: 12M67400.D Sam Mult : 1 Vial# : 26 Qt On : 06/29/23 07:40
Acq On : 06/28/23 17:14 Misc : A,BN Qt Upd On: 05/19/23 13:12

Data Path : G:\GcMsData\2023\GCMS_12SM\Data\06-28-23\
Qt Path : G:\GCMSDATA\2023\GCMS_12SM\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.542	96	24005	0.40	ng	0.00
3) 1,4-Dichlorobenzene-d4	5.779	152	28351	0.40	ng	0.00
9) Naphthalene-d8	6.788	136	103250	0.40	ng	0.00
14) Acenaphthene-d10	8.208	164	60013	0.40	ng	0.00
22) Phenanthrene-d10	9.664	188	107719	0.40	ng	0.00
31) Chrysene-d12	12.717	240	43892	0.40	ng	0.00
36) Perylene-d12	14.336	264	38104	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.223	82	2285651	41.21	ng	0.00
Spiked Amount 50.000			Recovery =	82.42%		
17) 2-Fluorobiphenyl	7.617	172	4297290	34.68	ng	0.00
Spiked Amount 50.000			Recovery =	69.36%		
33) Terphenyl-d14	11.467	244	4443569	44.76	ng	0.00
Spiked Amount 50.000			Recovery =	89.52%		
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 12M67400.D\data.ms
Quant QT Reviewed
SampleID : AD38798-006
Data File: 12M67400.D
Acq On : 06/28/23 17:14
Operator : AH/JB
Sam Mult : 1 Vial# : 26
Misc : A,BN
Qt Meth : 12SM_0518.M
Qt On : 06/29/23 07:40
Qt Upd On: 05/19/23 13:12
1,4-Dioxane-d8(INT),I
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38798-007
Client Id: Field Blank
Data File: 5M124304.D
Analysis Date: 06/28/23 20:25
Date Rec/Extracted: 06/23/23-06/28/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	U	50-32-8	Benzo[a]pyrene	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	205-99-2	Benzo[b]fluoranthene	2.0	U
123-91-1	1,4-Dioxane	0.50	U	191-24-2	Benzo[g,h,i]perylene	2.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	207-08-9	Benzo[k]fluoranthene	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U	111-91-1	bis(2-Chloroethoxy)methan	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	111-44-4	bis(2-Chloroethyl)ether	0.51	U
120-83-2	2,4-Dichlorophenol	0.62	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
105-67-9	2,4-Dimethylphenol	1.1	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	85-68-7	Butylbenzylphthalate	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	105-60-2	Caprolactam	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	86-74-8	Carbazole	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
95-57-8	2-Chlorophenol	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	132-64-9	Dibenzofuran	0.59	U
95-48-7	2-Methylphenol	0.59	U	84-66-2	Diethylphthalate	2.0	U
88-74-4	2-Nitroaniline	2.0	U	131-11-3	Dimethylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	84-74-2	Di-n-butylphthalate	0.72	U
106-44-5	3&4-Methylphenol	0.64	U	117-84-0	Di-n-octylphthalate	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	206-44-0	Fluoranthene	2.0	U
99-09-2	3-Nitroaniline	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	6.8	U
106-47-8	4-Chloroaniline	0.59	U	67-72-1	Hexachloroethane	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
100-01-6	4-Nitroaniline	2.0	U	78-59-1	Isophorone	2.0	U
100-02-7	4-Nitrophenol	2.0	U	91-20-3	Naphthalene	0.50	U
83-32-9	Acenaphthene	2.0	U	98-95-3	Nitrobenzene	2.0	U
208-96-8	Acenaphthylene	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.61	U
98-86-2	Acetophenone	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
120-12-7	Anthracene	2.0	U	87-86-5	Pentachlorophenol	10	U
1912-24-9	Atrazine	2.0	U	85-01-8	Phenanthrene	2.0	U
100-52-7	Benzaldehyde	2.0	U	108-95-2	Phenol	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 697606

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

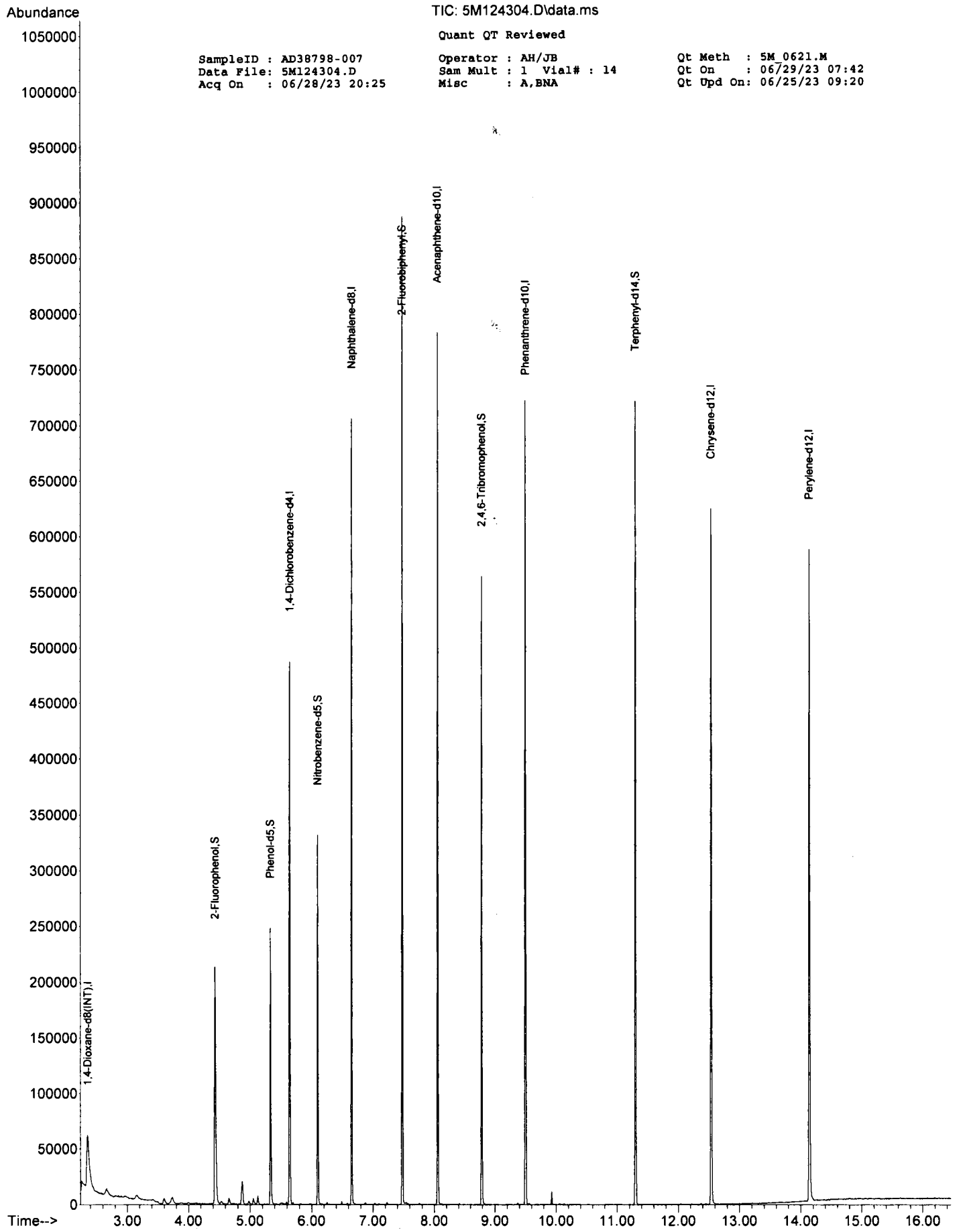
Quantitation Report (QT Reviewed)

SampleID : AD38798-007 Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124304.D Sam Mult : 1 Vial# : 14 Qt On : 06/29/23 07:42
Acq On : 06/28/23 20:25 Misc : A,BNA Qt Upd On: 06/25/23 09:20

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-28-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.355	96	55559	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.646	152	82065	40.00	ng	0.00
31) Naphthalene-d8	6.655	136	284600	40.00	ng	0.00
50) Acenaphthene-d10	8.055	164	157826	40.00	ng	0.00
77) Phenanthrene-d10	9.503	188	289119	40.00	ng	0.00
91) Chrysene-d12	12.537	240	237839	40.00	ng	0.00
103) Perylene-d12	14.140	264	229207	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.433	112	99039	40.50	ng	0.00
Spiked Amount 100.000			Recovery = 40.50%			
16) Phenol-d5	5.331	99	83014	27.74	ng	0.00
Spiked Amount 100.000			Recovery = 27.74%			
32) Nitrobenzene-d5	6.100	128	46239	38.85	ng	0.00
Spiked Amount 50.000			Recovery = 77.70%			
55) 2-Fluorobiphenyl	7.478	172	233881	41.42	ng	0.00
Spiked Amount 50.000			Recovery = 82.84%			
80) 2,4,6-Tribromophenol	8.787	330	57843	80.79	ng	0.00
Spiked Amount 100.000			Recovery = 80.79%			
94) Terphenyl-d14	11.303	244	225707	50.62	ng	0.00
Spiked Amount 50.000			Recovery = 101.24%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M124304.D\data.ms
Quant QT Reviewed
SampleID : AD38798-007
Data File: 5M124304.D
Acq On : 06/28/23 20:25
Operator : AH/JB
Sam Mult : 1 Vial# : 14
Misc : A,BNA
Qt Meth : 5M_0621.M
Qt On : 06/29/23 07:42
Qt Upd On: 06/25/23 09:20
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38798-007
Client Id: Field Blank
Data File: 12M67401.D
Analysis Date: 06/28/23 17:36
Date Rec/Extracted: 06/23/23-06/28/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 697610

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

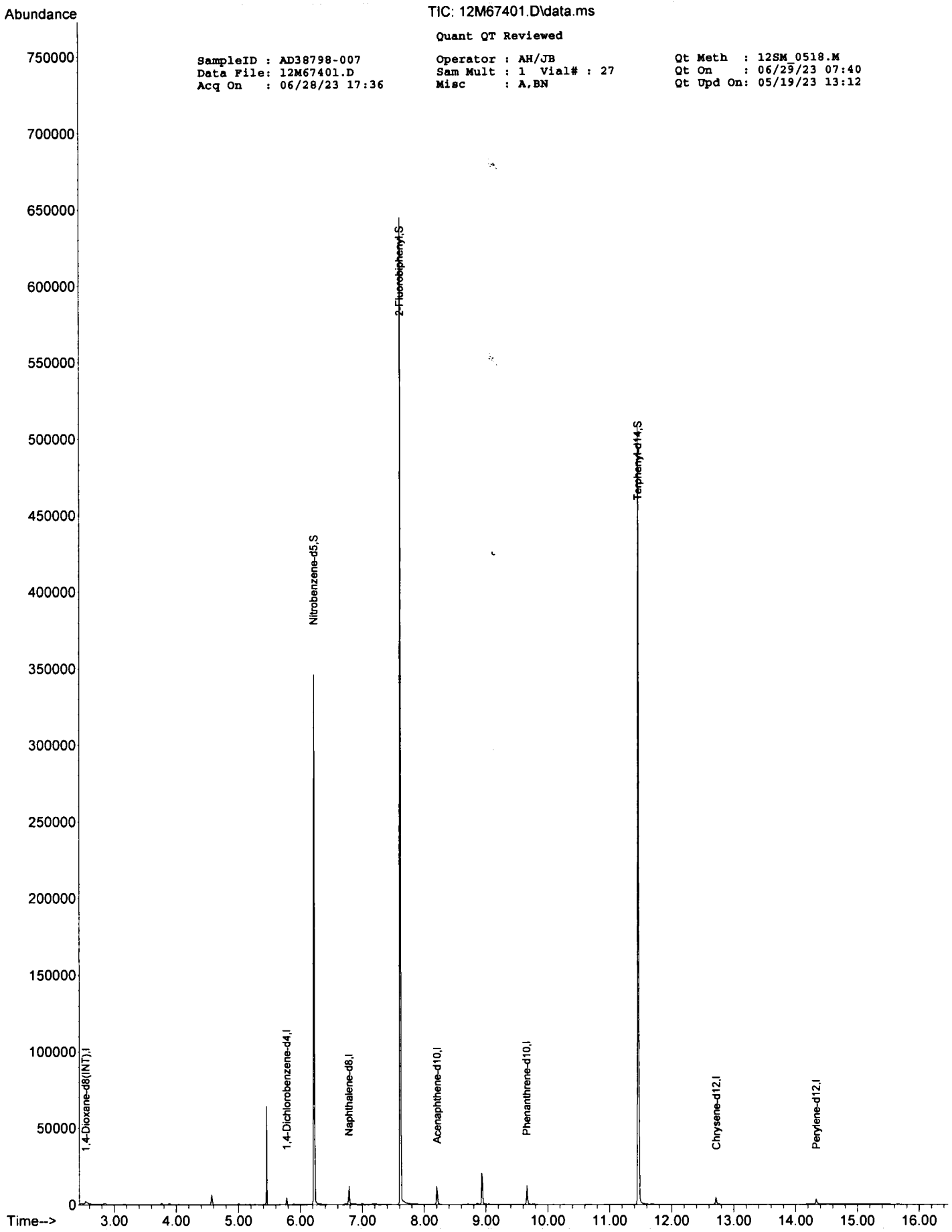
Quantitation Report (QT Reviewed)

SampleID : AD38798-007 Operator : AH/JB Qt Meth : 12SM_0518.M
Data File: 12M67401.D Sam Mult : 1 Vial# : 27 Qt On : 06/29/23 07:40
Acq On : 06/28/23 17:36 Misc : A,BN Qt Upd On: 05/19/23 13:12

Data Path : G:\GcMsData\2023\GCMS_12SM\Data\06-28-23\
Qt Path : G:\GCMSDATA\2023\GCMS_12SM\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.544	96	23193	0.40	ng	0.00
3) 1,4-Dichlorobenzene-d4	5.779	152	25424	0.40	ng	0.00
9) Naphthalene-d8	6.788	136	106154	0.40	ng	0.00
14) Acenaphthene-d10	8.209	164	55866	0.40	ng	0.00
22) Phenanthrene-d10	9.663	188	103424	0.40	ng	0.00
31) Chrysene-d12	12.717	240	41366	0.40	ng	0.00
36) Perylene-d12	14.337	264	35286	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.223	82	2465036	43.23	ng	0.00
Spiked Amount 50.000			Recovery = 86.46%			
17) 2-Fluorobiphenyl	7.619	172	4660812	41.61	ng	0.00
Spiked Amount 50.000			Recovery = 83.22%			
33) Terphenyl-d14	11.468	244	4881582	53.45	ng	0.00
Spiked Amount 50.000			Recovery = 106.90%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 12M67401.D\data.ms
Quant QT Reviewed
SampleID : AD38798-007
Data File: 12M67401.D
Acq On : 06/28/23 17:36
Operator : AH/JB
Sam Mult : 1 Vial# : 27
Misc : A,BN
Qt Meth : 12SM_0518.M
Qt On : 06/29/23 07:40
Qt Upd On: 05/19/23 13:12
Abundance
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
Time-->
3.00
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
16.00
1,4-Dioxane-d8(INT),I
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I

GC/MS Base Neutral/Acid Extractable Data
Standards Data

3062404 0266

Form 6
Initial Calibration

Method: EPA 8270E

Instrument: GCMS_5

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	5M124264.D	CAL BNA@50PPM	06/21/23 15:27	2	5M124256.D	CAL BNA@2PPM	06/21/23 12:17
3	5M124257.D	CAL BNA@10PPM	06/21/23 12:41	4	5M124262.D	CAL BNA@20PPM	06/21/23 14:39
5	5M124261.D	CAL BNA@80PPM	06/21/23 14:16	6	5M124260.D	CAL BNA@120PPM	06/21/23 13:52
7	5M124259.D	CAL BNA@160PPM	06/21/23 13:28	8	5M124258.D	CAL BNA@196PPM	06/21/23 13:04
9	5M124263.D	CAL BNA@0.5PPM	06/21/23 15:03				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Avg	0.9854	1.4635	1.1146	0.9873	0.9973	0.9581	0.9891	1.0801	0.9644	1.06	2.39	0.995	0.998	15		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	2.0753	2.4083	1.8808	2.0122	2.1150	2.1175	2.1623	2.2722	-----	2.13	2.81	0.998	1.00	7.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.5705	1.8323	1.4382	1.5073	1.6074	1.5970	1.6242	1.7283	-----	1.61	2.76	0.998	0.999	7.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	1.6988	1.9741	1.5380	1.6692	1.7472	1.7567	1.8018	1.8999	-----	1.76	4.43	0.998	1.00	7.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	1.4946	1.8416	1.4016	1.4737	1.5255	1.5085	1.5078	1.5927	-----	1.54	5.27	0.998	0.999	8.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	2.3963	2.7321	2.2711	2.3945	2.4254	2.3883	2.4731	2.6187	2.6694	2.49	5.36	0.998	1.00	6.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.6573	0.8807	0.6280	0.6631	0.6563	0.6533	0.6712	0.6994	-----	0.689	5.40	0.998	1.00	12	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	1.7862	2.3777	1.7686	1.8189	1.8077	1.8098	1.8736	1.8385	2.3873	1.94	5.42	1.00	1.00	13	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	2.0807	2.4117	1.9537	2.0360	2.1527	2.1318	2.1696	2.2998	-----	2.15	5.34	0.998	0.999	6.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	2.4673	3.0348	2.3856	2.4794	2.5911	2.5194	2.6137	2.7585	-----	2.61	5.35	0.998	1.00	7.9	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	1.8086	2.2572	1.7483	1.8296	1.8592	1.8312	1.8587	1.9320	-----	1.89	5.46	0.999	1.00	8.3	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	1.9326	2.5055	1.8497	1.8997	1.9397	1.8548	1.9097	2.0004	-----	1.99	5.50	0.998	0.999	11	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	2.0667	2.7648	2.0635	2.0651	2.0860	2.0526	2.1042	2.1872	-----	2.17	5.59	0.999	1.00	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.4984	1.9792	1.4288	1.4215	1.5058	1.4847	1.5790	1.6792	-----	1.57	5.66	0.996	0.999	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.3892	1.8270	1.3570	1.3481	1.4224	1.3867	1.4889	1.6065	-----	1.48	5.78	0.994	0.999	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.8437	0.8915	0.7382	0.8082	0.8769	0.8715	0.9277	1.0088	-----	0.871	5.76	0.993	0.999	9.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.5165	2.1375	1.5506	1.5232	1.5357	1.4802	1.5404	1.6408	-----	1.62	5.87	0.998	0.999	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.1311	1.3625	1.0733	1.0909	1.1783	1.1663	1.2447	1.3584	1.1981	1.20	5.85	0.993	0.999	8.7	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.7294	1.9631	1.5887	1.6152	1.7536	1.7667	1.8045	1.8443	-----	1.76	5.98	0.999	1.00	6.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5221	0.6796	0.5065	0.5098	0.5362	0.5347	0.5724	0.6103	-----	0.559	6.06	0.995	0.999	11	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	0.9005	0.9978	0.7915	0.8341	0.9107	0.9022	0.9288	0.9278	1.0041	0.911	5.98	1.00	1.00	7.5	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.2573	1.3835	1.1097	1.1815	1.2749	1.2805	1.3188	1.3530	1.1780	1.26	5.98	0.999	1.00	7.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1611	0.1844	0.1462	0.1503	0.1650	0.1692	0.1772	0.1843	-----	0.167	6.10	0.997	1.00	8.6		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3650	0.4554	0.3404	0.3480	0.3676	0.3661	0.3878	0.4102	-----	0.380	6.11	0.996	0.999	9.9	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6691	0.7228	0.5985	0.6263	0.6907	0.6819	0.7112	0.7651	-----	0.683	6.30	0.996	0.999	7.8	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.1848	0.1837	0.1539	0.1707	0.1949	0.1971	0.2134	0.2278	-----	0.191	6.36	0.993	1.00	12	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Avg	0.3400	0.3905	0.3096	0.3194	0.3378	0.3499	0.3802	0.4004	0.3589	0.354	6.39	0.994	1.00	8.8	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.2104	-----	0.1145	0.1630	0.2504	0.2586	0.2840	0.2991	-----	0.226	6.46	0.995	1.00	30		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.4189	0.4979	0.3766	0.3940	0.4188	0.4206	0.4429	0.4758	-----	0.431	6.46	0.995	0.999	9.4	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Avg	0.3061	0.3268	0.2635	0.2831	0.3130	0.3140	0.3334	0.3540	0.3012	0.311	6.54	0.996	1.00	8.6	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.3481	0.4312	0.3285	0.3262	0.3447	0.3492	0.3710	0.4041	-----	0.363	6.61	0.993	0.999	10		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	1.1094	1.3628	1.0068	1.0097	1.1019	1.0593	1.1202	1.1767	1.4114	1.15	6.67	0.997	0.999	13	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.3735	0.4093	0.3367	0.3530	0.3740	0.3581	0.3562	0.3467	0.3788	0.365	6.71	0.999	1.00	5.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1979	0.2512	0.1869	0.1828	0.2008	0.1980	0.2151	0.2273	-----	0.208	6.76	0.995	0.999	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.0982	0.0827	0.0779	0.0904	0.0997	0.1028	0.1100	0.1172	-----	0.0974	6.98	0.995	1.00	14	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2801	0.2749	0.2417	0.2607	0.2875	0.2916	0.3114	0.3366	-----	0.286	7.07	0.994	1.00	10	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.7108	0.8358	0.6472	0.6509	0.7156	0.7011	0.7531	0.7931	-----	0.726	7.20	0.996	0.999	9.0	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6562	0.7903	0.5960	0.6146	0.6672	0.6582	0.7050	0.7353	-----	0.678	7.28	0.997	1.00	9.4	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Avg	0.6822	0.8131	0.6215	0.6294	0.6857	0.6792	0.7332	0.7638	-----	0.701	7.20	0.996	1.00	9.3		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.8831	1.0544	0.8164	0.8167	0.8880	0.8783	0.9324	0.9921	-----	0.908	7.56	0.996	0.999	9.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.6269	0.7848	0.5823	0.5973	0.6205	0.6315	0.6838	0.7106	-----	0.655	7.32	0.996	1.00	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 10.58

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

3062404 0267

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_5

Level #	Data File:	Cal Identifier:	Analysis Date/Time	Level #	Data File:	Cal Identifier:	Analysis Date/Time
1	5M124264.D	CAL BNA@50PPM	06/21/23 15:27	2	5M124256.D	CAL BNA@2PPM	06/21/23 12:17
3	5M124257.D	CAL BNA@10PPM	06/21/23 12:41	4	5M124262.D	CAL BNA@20PPM	06/21/23 14:39
5	5M124261.D	CAL BNA@80PPM	06/21/23 14:16	6	5M124260.D	CAL BNA@120PPM	06/21/23 13:52
7	5M124259.D	CAL BNA@160PPM	06/21/23 13:28	8	5M124258.D	CAL BNA@196PPM	06/21/23 13:04
9	5M124263.D	CAL BNA@0.5PPM	06/21/23 15:03				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Qua	0.2628	0.1843	0.1896	0.2141	0.2690	0.2828	0.3061	0.3315	-----	0.255	7.31	0.992	1.00	21	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.3880	0.3792	0.3371	0.3545	0.3875	0.4033	0.4372	0.4635	-----	0.394	7.41	0.994	1.00	10	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.4146	0.4232	0.3626	0.3836	0.4151	0.4297	0.4575	0.4921	-----	0.422	7.45	0.994	1.00	9.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.3750	1.6606	1.3240	1.2976	1.3596	1.3906	1.4864	1.5558	-----	1.43	7.48	0.996	1.00	8.8		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.1849	1.3813	1.1059	1.1120	1.1694	1.2005	1.2954	1.3491	-----	1.22	7.58	0.996	1.00	8.6	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	0.9994	1.1721	0.9086	0.9207	0.9804	1.0237	1.0686	1.1105	-----	1.02	7.86	0.997	1.00	8.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	0.9994	1.1721	0.9086	0.9207	0.9804	1.0237	1.0686	1.1105	-----	1.02	7.86	0.997	1.00	8.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8177	0.9815	0.7676	0.7869	0.7997	0.8169	0.8807	0.9410	-----	0.849	7.65	0.994	0.999	9.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.3745	0.3579	0.3121	0.3435	0.3636	0.3720	0.3929	0.4190	-----	0.367	7.67	0.995	0.999	8.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4845	0.5220	0.4447	0.4545	0.4704	0.5019	0.5347	0.5495	-----	0.495	7.85	0.996	1.00	7.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.6785	1.8753	1.5782	1.5850	1.6319	1.6771	1.7894	1.8880	-----	1.71	7.94	0.995	1.00	7.2	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.2829	1.4378	1.1795	1.1978	1.2605	1.2980	1.3583	1.4602	-----	1.31	7.81	0.995	0.999	7.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.2956	0.2852	0.2495	0.2743	0.2903	0.3001	0.3201	0.3304	-----	0.293	7.87	0.997	1.00	8.6	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.1542	1.4064	1.0932	1.1091	1.1346	1.1992	1.2666	1.3217	-----	1.21	8.09	0.996	1.00	9.2	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3065	0.2760	0.2684	0.2847	0.2953	0.2956	0.3007	0.3010	-----	0.291	8.01	1.00	1.00	4.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1246	-----	0.0629	0.0914	0.1453	0.1598	0.1782	0.1910	-----	0.136	8.11	0.991	1.00	34	0.20	a 50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.6521	2.1300	1.5770	1.5706	1.6367	1.6718	1.7646	1.8662	2.1528	1.78	8.24	0.996	1.00	13	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Avg	0.3753	0.3028	0.3046	0.3419	0.3725	0.3894	0.4192	0.4519	-----	0.370	8.22	0.993	1.00	14	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Avg	0.2076	0.1542	0.1528	0.1843	0.2119	0.2279	0.2330	0.2528	-----	0.203	8.15	0.995	0.999	18	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3427	0.3084	0.2829	0.3177	0.3409	0.3518	0.3875	0.4109	-----	0.343	8.34	0.993	0.999	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.3650	1.5822	1.2281	1.2791	1.3587	1.4048	1.4763	1.5793	-----	1.41	8.56	0.995	1.00	9.2	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.6691	0.8048	0.6058	0.6149	0.6743	0.6948	0.7433	0.8010	-----	0.701	8.55	0.993	1.00	11	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.2094	1.3539	1.0834	1.1172	1.1976	1.2555	1.3307	1.4355	-----	1.25	8.43	0.994	1.00	9.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.3267	0.2739	0.2693	0.3054	0.3250	0.3392	0.3574	0.3737	-----	0.321	8.57	0.997	1.00	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.3591	0.3074	0.2885	0.3267	0.3535	0.3713	0.4003	0.4235	-----	0.354	9.19	0.994	1.00	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.1040	-----	0.0665	0.0833	0.1134	0.1224	0.1313	0.1392	-----	0.109	8.59	0.995	1.00	24	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6131	0.6715	0.5508	0.5649	0.6017	0.6285	0.6771	0.7036	-----	0.626	8.66	0.995	1.00	8.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Avg	0.0982	0.0937	0.0791	0.0841	0.0998	0.1048	0.1130	0.1194	-----	0.0991	8.79	0.994	1.00	14		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.6884	0.8329	0.6775	0.7047	0.7375	0.7815	0.8114	0.8431	-----	0.760	8.70	0.996	1.00	8.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2100	0.2400	0.1860	0.1901	0.2090	0.2193	0.2350	0.2501	-----	0.217	9.03	0.994	1.00	11	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2298	0.2802	0.2113	0.2118	0.2209	0.2338	0.2457	0.2614	-----	0.237	9.09	0.995	1.00	10	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.3355	0.3052	0.2758	0.2911	0.3217	0.3438	0.3607	0.3789	-----	0.327	9.36	0.996	1.00	11	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Qua	0.1232	-----	0.0732	0.0953	0.1337	0.1432	0.1595	0.1674	-----	0.128	9.29	0.993	1.00	27	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.0491	1.2903	1.0012	0.9720	1.0424	1.0959	1.1600	1.2013	-----	1.10	9.52	0.996	1.00	9.8	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.0760	1.1782	0.9911	0.9771	1.0709	1.1188	1.1510	1.2278	-----	1.10	9.58	0.996	1.00	8.0	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	0.9981	1.0703	0.8913	0.8876	0.9928	1.0368	1.0925	1.1425	-----	1.01	9.75	0.997	1.00	9.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Avg	1.1339	0.9996	0.9056	0.9955	1.1656	1.2365	1.3204	1.3793	0.8798	1.11	10.13	0.995	1.00	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.1923	1.1871	1.0192	1.0648	1.1975	1.2738	1.3194	1.3358	-----	1.20	10.85	0.998	1.00	9.4	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.3275	1.4899	1.1994	1.2346	1.3086	1.3912	1.3993	1.4706	-----	1.35	11.11	0.998	1.00	7.7	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Avg	0.5440	0.4193	0.3750	0.4638	0.5446	0.5638	0.5526	0.5754	-----	0.505	11.01	0.999	0.999	15		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.7158	0.8723	0.6643	0.6841	0.7059	0.7539	0.7578	0.8451	-----	0.750	11.30	0.993	0.998	9.9		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 10.58

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

3062404 0268

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_5

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	5M124264.D	CAL BNA@50PPM	06/21/23 15:27	2	5M124256.D	CAL BNA@2PPM	06/21/23 12:17
3	5M124257.D	CAL BNA@10PPM	06/21/23 12:41	4	5M124262.D	CAL BNA@20PPM	06/21/23 14:39
5	5M124261.D	CAL BNA@80PPM	06/21/23 14:16	6	5M124260.D	CAL BNA@120PPM	06/21/23 13:52
7	5M124259.D	CAL BNA@160PPM	06/21/23 13:28	8	5M124258.D	CAL BNA@196PPM	06/21/23 13:04
9	5M124263.D	CAL BNA@0.5PPM	06/21/23 15:03				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2692	0.2915	0.2358	0.2506	0.2609	0.2885	0.3037	0.3278	-----	0.279	11.23	0.992	1.00	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4907	0.4465	0.4108	0.4464	0.4860	0.5189	0.5294	0.5828	-----	0.489	11.63	0.994	0.999	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Avg	0.5228	0.4058	0.3887	0.4500	0.5245	0.5723	0.5987	0.6316	-----	0.512	11.89	0.996	1.00	17	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.4014	0.3312	0.3115	0.3492	0.4015	0.4235	0.4420	0.4782	-----	0.392	11.99	0.994	0.999	15		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Avg	0.3645	0.3710	0.2824	0.3357	0.3743	0.4042	0.4078	0.4027	-----	0.368	12.51	0.999	0.999	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.2625	1.4560	1.1111	1.1826	1.2155	1.2950	1.3350	1.4037	-----	1.28	12.53	0.997	1.00	8.9	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.1579	1.3813	1.0957	1.0952	1.1373	1.2287	1.2387	1.3097	-----	1.21	12.57	0.997	1.00	8.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Avg	0.7320	0.5640	0.5514	0.6406	0.7441	0.8152	0.8526	0.8908	-----	0.724	12.59	0.996	1.00	18	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Qua	1.2592	0.8085	0.8274	1.0269	1.2966	1.3848	1.5090	1.6339	-----	1.22	13.33	0.991	1.00	25	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.2519	1.2296	1.0190	1.0722	1.1768	1.2082	1.3102	1.4847	-----	1.22	13.74	0.990	0.998	12	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.0634	1.2774	1.1235	1.1488	1.2219	1.2429	1.2306	1.3814	-----	1.21	13.77	0.993	0.998	8.2	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.0734	1.0365	0.8767	0.9621	1.0591	1.1012	1.1720	1.2759	-----	1.07	14.08	0.993	0.999	11	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.3489	1.2651	1.0985	1.1597	1.3072	1.3913	1.4778	1.6290	-----	1.33	15.37	0.992	0.999	13	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.1096	1.0111	0.9175	0.9562	1.0807	1.1475	1.2087	1.3443	-----	1.10	15.40	0.991	0.999	13	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	1.0805	1.1292	0.9408	0.9367	1.0446	1.0796	1.1588	1.2463	-----	1.08	15.72	0.993	0.999	9.8	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 10.58
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124264.D Sam Mult : 1 Vial# : 10 Qt On : 06/21/23 15:43
Acq On : 06/21/23 15:27 Misc : A,BNA Qt Upd On: 05/11/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.355	96	52985	40.00	ng	-0.05
21) 1,4-Dichlorobenzene-d4	5.640	152	74399	40.00	ng	-0.03
31) Naphthalene-d8	6.655	136	250978	40.00	ng	-0.03
50) Acenaphthene-d10	8.055	164	139070	40.00	ng	-0.04
77) Phenanthrene-d10	9.498	188	254424	40.00	ng	-0.04
91) Chrysene-d12	12.543	240	237728	40.00	ng	-0.04
103) Perylene-d12	14.140	264	226792	40.00	ng	-0.05
System Monitoring Compounds						
11) 2-Fluorophenol	4.433	112	112518	48.07	ng	-0.05
Spiked Amount 100.000			Recovery = 48.07%			
16) Phenol-d5	5.336	99	137812	47.23	ng	-0.04
Spiked Amount 100.000			Recovery = 47.23%			
32) Nitrobenzene-d5	6.100	128	25279	23.77	ng	-0.03
Spiked Amount 50.000			Recovery = 47.54%			
55) 2-Fluorobiphenyl	7.478	172	119518	24.16	ng	-0.03
Spiked Amount 50.000			Recovery = 48.32%			
80) 2,4,6-Tribromophenol	8.787	330	31252	48.07	ng	-0.04
Spiked Amount 100.000			Recovery = 48.07%			
94) Terphenyl-d14	11.298	244	106360	23.67	ng	-0.04
Spiked Amount 50.000			Recovery = 47.34%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.387	88	65270	43.8216	ng	100
9) Pyridine	2.814	79	137451	47.3871	ng	65
10) N-Nitrosodimethylamine	2.756	74	104020	48.3985	ng	74
12) Benzaldehyde	5.266	77	98993	48.7860	ng	76
13) Aniline	5.363	93	158710	44.0424	ng	60
14) Pentachloroethane	5.400	117	43538	48.5227	ng	74
15) bis(2-Chloroethyl)ether	5.421	93	118305	46.8436	ng	81
17) Phenol	5.347	94	163417	45.1914	ng	81
18) 2-Chlorophenol	5.464	128	119792	46.8937	ng	78
19) N-Decane	5.502	57	128001m	47.0038	ng	
20) 1,3-Dichlorobenzene	5.592	146	136883m	47.3102	ng	
22) 1,4-Dichlorobenzene	5.656	146	139350	46.2333	ng	97
23) 1,2-Dichlorobenzene	5.779	146	129194	45.8776	ng	97
24) Benzyl alcohol	5.763	108	78466	46.4837	ng	69
25) bis(2-chloroisopropyl)...	5.870	45	141035	42.0000	ng	100
26) 2-Methylphenol	5.854	108	105196	45.6695	ng	97
27) Acetophenone	5.977	105	160839	50.8881	ng	71
28) Hexachloroethane	6.057	117	48561	45.4483	ng	90
29) N-Nitroso-di-n-propyla...	5.977	70	83746	49.0671	ng	73
30) 3&4-Methylphenol	5.982	108	116929	49.5925	ng	99
33) Nitrobenzene	6.111	77	114521	47.8154	ng	82
34) Isophorone	6.298	82	209918	48.1651	ng	91
35) 2-Nitrophenol	6.362	139	57982	47.6099	ng	82
36) 2,4-Dimethylphenol	6.394	107	106677	48.0385	ng	90
37) Benzoic Acid	6.463	105	66027	45.3866	ng	87
38) bis(2-Chloroethoxy)met...	6.463	93	131432	47.9959	ng	97
39) 2,4-Dichlorophenol	6.543	162	96047	49.3120	ng	86
40) 1,2,4-Trichlorobenzene	6.607	180	109236	47.8471	ng	96
41) Naphthalene	6.671	128	348051	49.3502	ng	99
42) 4-Chloroaniline	6.709	127	117187	47.4786	ng	95
43) Hexachlorobutadiene	6.757	225	62093	49.0421	ng	97
44) Caprolactam	6.976	113	30818	49.3735	ng	69
45) 4-Chloro-3-methylphenol	7.072	107	87902	47.6919	ng	75
46) 2-Methylnaphthalene	7.195	142	223011	48.1177	ng	99
47) 1-Methylnaphthalene	7.275	142	205881	47.7979	ng	92
48) Methylnaphthalenes (To...	7.195	142	428086m	95.4500	ng	
49) 1,1'-Biphenyl	7.564	154	277075	49.2575	ng	94
51) 1,2,4,5-Tetrachloroben...	7.323	216	108990	49.9878	ng	98
52) Hexachlorocyclopentadiene	7.313	237	45685	45.0837	ng	97
53) 2,4,6-Trichlorophenol	7.414	196	67461	48.3693	ng	99
54) 2,4,5-Trichlorophenol	7.446	196	72085	48.1872	ng	100
56) 2-Chloronaphthalene	7.585	162	205994	48.0748	ng	89
57) 1,4-Dimethylnaphthalene	7.863	156	173741	50.1099	ng	85
58) Dimethylnaphthalenes (...	7.863	156	173741	50.1099	ng	85
59) Diphenyl Ether	7.649	170	142152	49.0583	ng	73
60) 2-Nitroaniline	7.665	65	65115	48.2646	ng	58
61) Coumarin	7.847	146	84229	50.5239	ng	95
62) Acenaphthylene	7.938	152	291794	48.3468	ng	99
63) Dimethylphthalate	7.809	163	223017	47.7081	ng	99
64) 2,6-Dinitrotoluene	7.868	165	51401	48.6965	ng	57
65) Acenaphthene	8.087	153	200656	46.5567	ng	97

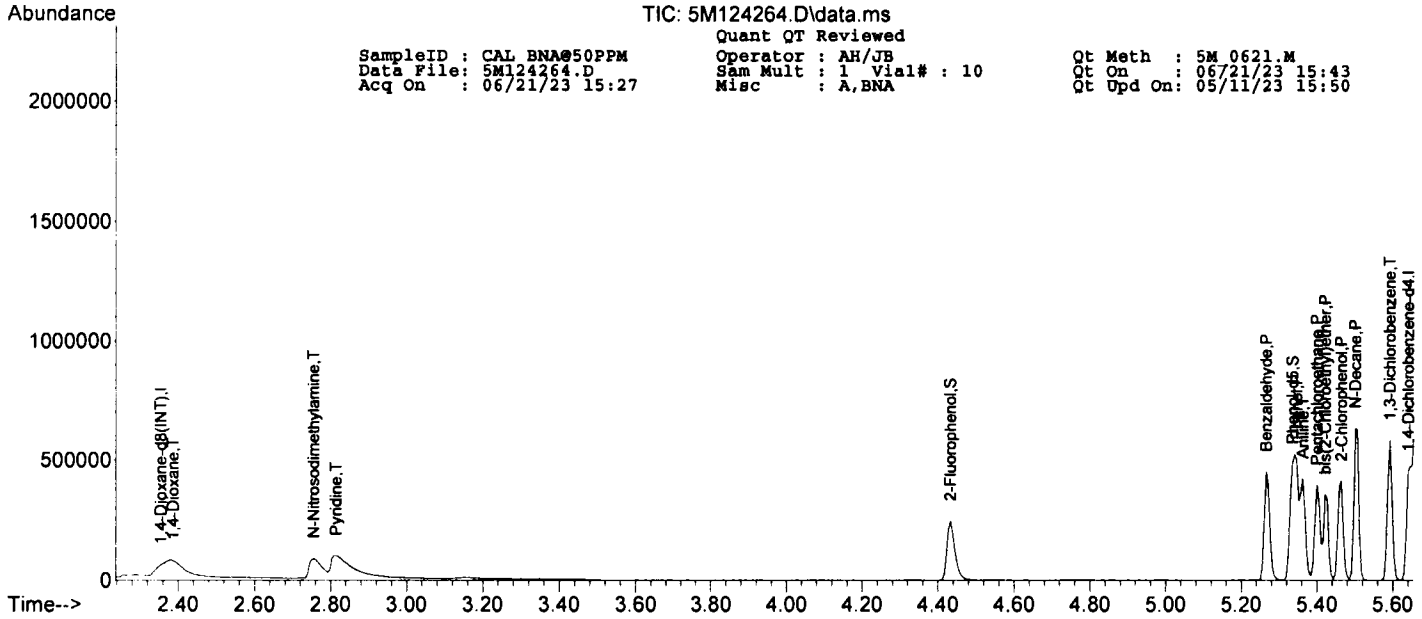
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124264.D Sam Mult : 1 Vial# : 10 Qt On : 06/21/23 15:43
Acq On : 06/21/23 15:27 Misc : A,BNA Qt Upd On: 05/11/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.012	138	53289	49.0976	ng	77
67)	2,4-Dinitrophenol	8.109	184	21675	49.2036	ng	26
68)	Dibenzofuran	8.242	168	287202	47.0271	ng	81
69)	2,4-Dinitrotoluene	8.221	165	65257	48.2623	ng	59
70)	4-Nitrophenol	8.146	65	36101	48.8759	ng	95
71)	2,3,4,6-Tetrachlorophenol	8.344	232	59589	49.7050	ng	82
72)	Fluorene	8.557	166	237303	48.3173	ng	100
73)	4-Chlorophenyl-phenyle...	8.547	204	116326	48.6583	ng	82
74)	Diethylphthalate	8.434	149	210240	47.4613	ng	96
75)	4-Nitroaniline	8.573	138	56809	47.3176	ng	72
76)	Atrazine	9.188	200	62436	48.7705	ng	94
78)	4,6-Dinitro-2-methylph...	8.595	198	33090	46.1593	ng	69
79)	n-Nitrosodiphenylamine	8.659	169	194984	47.3837	ng	100
81)	1,2-Diphenylhydrazine	8.702	77	218960	44.8870	ng	83
82)	4-Bromophenyl-phenylether	9.033	248	66807	46.4156	ng	75
83)	Hexachlorobenzene	9.091	284	73093	47.8467	ng	62
84)	N-Octadecane	9.364	57	106726	47.1867	ng	73
85)	Pentachlorophenol	9.294	266	39191	50.1003	ng	99
86)	Phenanthrene	9.524	178	333660	45.8557	ng	99
87)	Anthracene	9.578	178	342199	46.8783	ng	99
88)	Carbazole	9.754	167	317431	47.2549	ng	96
89)	Di-n-butylphthalate	10.133	149	360638	48.0848	ng	97
90)	Fluoranthene	10.849	202	379191	47.7683	ng	88
92)	Pyrene	11.111	202	394504	48.6209	ng	86
93)	Benzidine	11.009	184	161669	41.3681	ng	88
95)	4,4'-DDE	11.234	246	80007	46.9332	ng	95
96)	4,4'-DDD	11.634	235	145843	48.1752	ng	97
97)	Butylbenzylphthalate	11.891	149	155374	47.1610	ng	70
98)	4,4'-DDT	11.987	235	119287	49.4179	ng	100
99)	3,3'-Dichlorobenzidine	12.511	252	108340	43.6405	ng	95
100)	Benzo[a]anthracene	12.532	228	375165	47.7915	ng	99
101)	Chrysene	12.569	228	344104	47.9052	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.585	149	217524	47.1893	ng	93
104)	Di-n-octylphthalate	13.333	149	356987	45.0473	ng	99
105)	Benzo[b]fluoranthene	13.739	252	354908	47.2520	ng	97
106)	Benzo[k]fluoranthene	13.771	252	301484	42.0484	ng	92
107)	Benzo[a]pyrene	14.081	252	304300	47.5350	ng	92
108)	Indeno[1,2,3-cd]pyrene	15.374	276	382415	47.5026	ng	80
109)	Dibenzo[a,h]anthracene	15.395	278	314560	47.3262	ng	95
110)	Benzo[g,h,i]perylene	15.721	276	306319	47.4290	ng	75

(#) = qualifier out of range (m) = manual integration (+) = signals summed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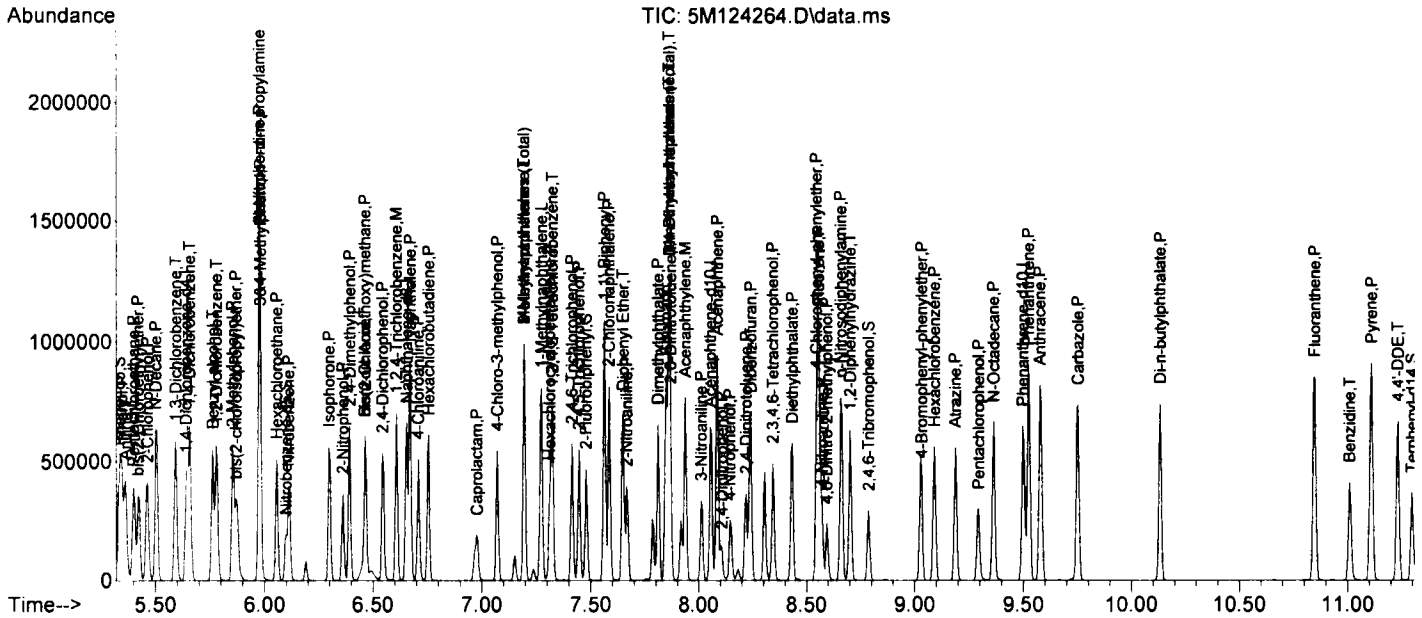
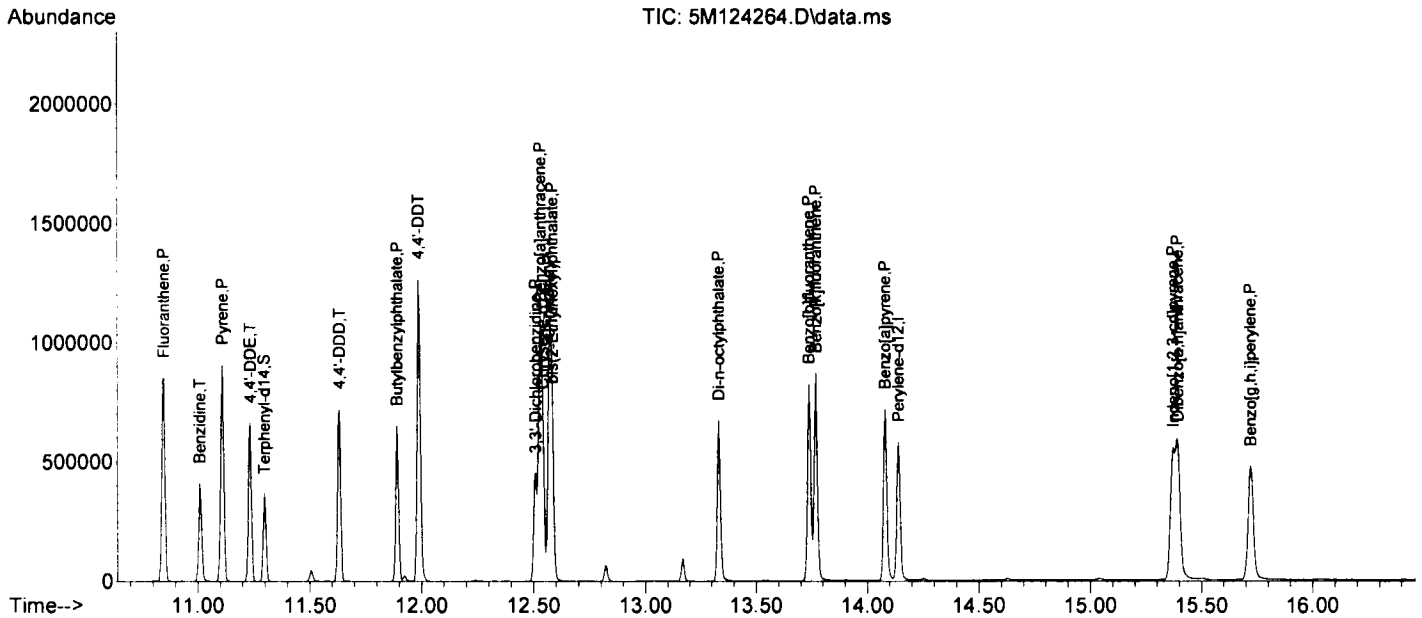
Quant QT Reviewed
SampleID : CAL BNA@50PPM
Data File: 5M124264.D
Acq On : 06/21/23 15:27
Operator : AH/JB
Sam Mult : 1 Vial# : 10
Misc : A,BNA
Qt Meth : 5M_0621.M
Qt On : 06/21/23 15:43
Qt Upd On: 05/11/23 15:50
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
1,3-Dichlorobenzene,T
1,4-Dichlorobenzene-d4,I
Time-->


Abundance
TIC: 5M124264.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
2-Nitrophenol,P
2,4-Dichlorophenol,P
Hexachlorobutadiene,P
Diethylphthalate,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Time-->


Abundance
TIC: 5M124264.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo(a)pyrene,P
Perylene-d12,I
Benzo(g,h,i)perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@2PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124256.D Sam Mult : 1 Vial# : 2 Qt On : 06/21/23 12:34
Acq On : 06/21/23 12:17 Misc : A,BNA Qt Upd On: 05/11/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.355	96	47120	40.00	ng	-0.05
21) 1,4-Dichlorobenzene-d4	5.640	152	68330	40.00	ng	-0.03
31) Naphthalene-d8	6.650	136	244363	40.00	ng	-0.03
50) Acenaphthene-d10	8.055	164	138111	40.00	ng	-0.04
77) Phenanthrene-d10	9.497	188	248753	40.00	ng	-0.04
91) Chrysene-d12	12.537	240	223754	40.00	ng	-0.05
103) Perylene-d12	14.140	264	222201	40.00	ng	-0.05
System Monitoring Compounds						
11) 2-Fluorophenol	4.433	112	4651m	2.23	ng	-0.05
Spiked Amount 100.000			Recovery = 2.23%			
16) Phenol-d5	5.336	99	5682	2.19	ng	-0.04
Spiked Amount 100.000			Recovery = 2.19%			
32) Nitrobenzene-d5	6.100	128	1127	1.09	ng	-0.03
Spiked Amount 50.000			Recovery = 2.18%			
55) 2-Fluorobiphenyl	7.478	172	5734	1.17	ng	-0.03
Spiked Amount 50.000			Recovery = 2.34%			
80) 2,4,6-Tribromophenol	8.787	330	1166	1.83	ng	-0.04
Spiked Amount 100.000			Recovery = 1.83%			
94) Terphenyl-d14	11.298	244	4880	1.15	ng	-0.04
Spiked Amount 50.000			Recovery = 2.30%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.392	88	3448	2.6031	ng	94
9) Pyridine	2.884	79	5674	2.1996	ng	71
10) N-Nitrosodimethylamine	2.782	74	4317	2.2586	ng	77
12) Benzaldehyde	5.266	77	4339	2.4045	ng	81
13) Aniline	5.363	93	6437m	2.0086	ng	
14) Pentachloroethane	5.400	117	2075	2.6004	ng	72
15) bis(2-Chloroethyl)ether	5.421	93	5602	2.4942	ng	80
17) Phenol	5.346	94	7150	2.2234	ng	82
18) 2-Chlorophenol	5.464	128	5318	2.3409	ng	79
19) N-Decane	5.501	57	5903	2.4375	ng	95
20) 1,3-Dichlorobenzene	5.592	146	6514m	2.5316	ng	
22) 1,4-Dichlorobenzene	5.656	146	6762	2.4427	ng	96
23) 1,2-Dichlorobenzene	5.779	146	6242	2.4134	ng	97
24) Benzyl alcohol	5.763	108	3046	1.9647	ng	77
25) bis(2-chloroisopropyl)...	5.870	45	7303	2.3680	ng	88
26) 2-Methylphenol	5.854	108	4655	2.2004	ng	96
27) Acetophenone	5.977	105	6707	2.3105	ng	75
28) Hexachloroethane	6.057	117	2322	2.3662	ng	89
29) N-Nitroso-di-n-propyla...	5.977	70	3409	2.1748	ng	72
30) 3&4-Methylphenol	5.982	108	4727	2.1829	ng	97
33) Nitrobenzene	6.110	77	5565	2.3864	ng	84
34) Isophorone	6.297	82	8832	2.0813	ng	93
35) 2-Nitrophenol	6.362	139	2245	1.8933	ng	81
36) 2,4-Dimethylphenol	6.394	107	4772	2.2071	ng	95
37) Benzoic Acid	0.000		0	N.D. d		
38) bis(2-Chloroethoxy)met...	6.463	93	6084	2.2819	ng	97
39) 2,4-Dichlorophenol	6.548	162	3993	2.1056	ng	85
40) 1,2,4-Trichlorobenzene	6.607	180	5269	2.3704	ng	94
41) Naphthalene	6.666	128	16652	2.4250	ng	98
42) 4-Chloroaniline	6.709	127	5001m	2.0810	ng	
43) Hexachlorobutadiene	6.757	225	3070	2.4904	ng	96
44) Caprolactam	6.955	113	1011	1.6636	ng	67
45) 4-Chloro-3-methylphenol	7.067	107	3359	1.8718	ng	86
46) 2-Methylnaphthalene	7.195	142	10213	2.2632	ng	98
47) 1-Methylnaphthalene	7.270	142	9657	2.3027	ng	90
48) Methylnaphthalenes (To...	7.195	142	19870m	4.5503	ng	
49) 1,1'-Biphenyl	7.564	154	12883	2.3523	ng	95
51) 1,2,4,5-Tetrachloroben...	7.323	216	5420	2.5031	ng	98
52) Hexachlorocyclopentadiene	7.312	237	1273	1.2650	ng	88
53) 2,4,6-Trichlorophenol	7.414	196	2619	1.8909	ng	96
54) 2,4,5-Trichlorophenol	7.446	196	2923	1.9675	ng	98
56) 2-Chloronaphthalene	7.585	162	9539	2.2417	ng	90
57) 1,4-Dimethylnaphthalene	7.857	156	8094	2.3507	ng	87
58) Dimethylnaphthalenes (...	7.857	156	8094	2.3507	ng	87
59) Diphenyl Ether	7.649	170	6778	2.3554	ng	68
60) 2-Nitroaniline	7.665	65	2472	1.8450	ng	67
61) Coumarin	7.841	146	3605	2.1774	ng	93
62) Acenaphthylene	7.932	152	12950	2.1606	ng	99
63) Dimethylphthalate	7.804	163	9929	2.1388	ng	97
64) 2,6-Dinitrotoluene	7.863	165	1970	1.8793	ng	73
65) Acenaphthene	8.082	153	9712	2.2690	ng	97

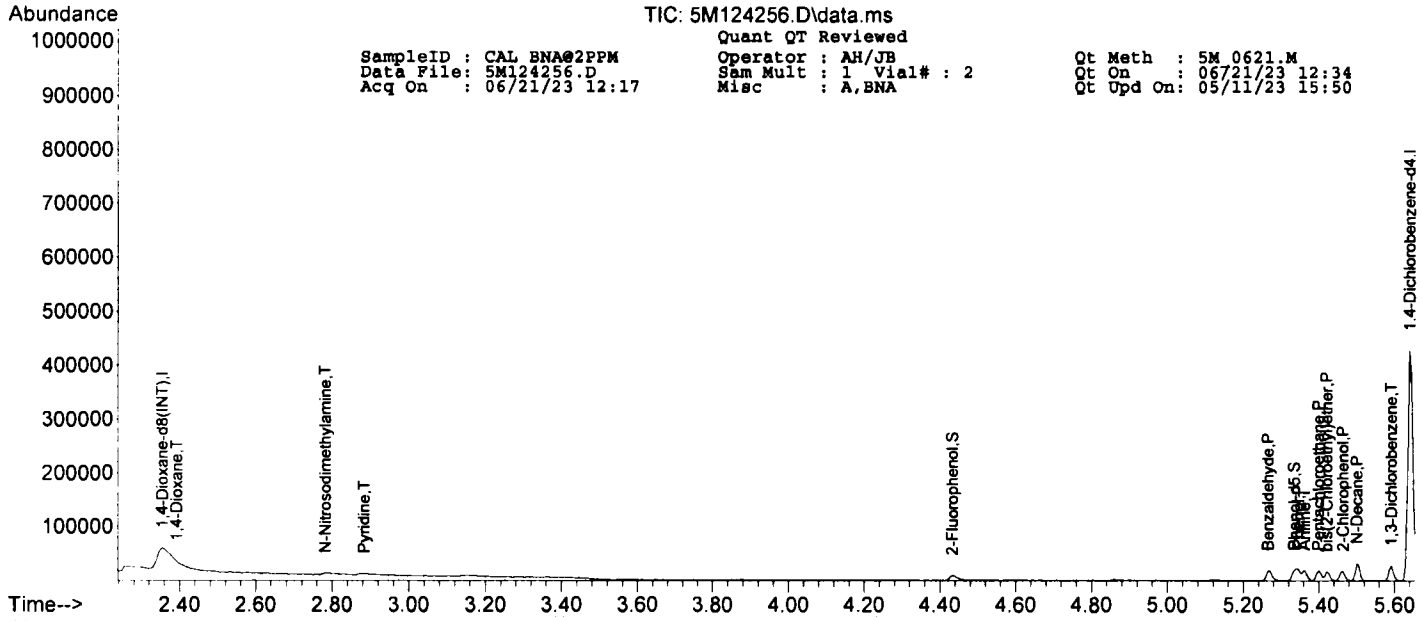
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@2PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124256.D Sam Mult : 1 Vial# : 2 Qt On : 06/21/23 12:34
Acq On : 06/21/23 12:17 Misc : A,BNA Qt Upd On: 05/11/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.012	138	1906	1.7683	ng	79
67)	2,4-Dinitrophenol	0.000		0	N.D.		
68)	Dibenzofuran	8.237	168	14709	2.4252	ng	79
69)	2,4-Dinitrotoluene	8.215	165	2091	1.5572	ng	73
70)	4-Nitrophenol	8.151	65	1065	1.5982	ng	97
71)	2,3,4,6-Tetrachlorophenol	8.344	232	2130	1.7890	ng	81
72)	Fluorene	8.557	166	10926	2.2401	ng	96
73)	4-Chlorophenyl-phenyle...	8.547	204	5558	2.3410	ng	79
74)	Diethylphthalate	8.429	149	9350	2.1254	ng	98
75)	4-Nitroaniline	8.568	138	1892	1.5868	ng	69
76)	Atrazine	9.182	200	2123	1.6699	ng	87
78)	4,6-Dinitro-2-methylph...	0.000		0	N.D. d		
79)	n-Nitrosodiphenylamine	8.659	169	8353	2.0762	ng	96
81)	1,2-Diphenylhydrazine	8.696	77	10360	2.1722	ng	86
82)	4-Bromophenyl-phenylether	9.027	248	2985	2.1212	ng	79
83)	Hexachlorobenzene	9.086	284	3485	2.3333	ng	68
84)	N-Octadecane	9.364	57	3797	1.7170	ng	73
85)	Pentachlorophenol	0.000		0	N.D. d		
86)	Phenanthrene	9.524	178	16049	2.2559	ng	99
87)	Anthracene	9.578	178	14655	2.0534	ng	99
88)	Carbazole	9.748	167	13312	2.0269	ng	97
89)	Di-n-butylphthalate	10.133	149	12433	1.6955	ng	96
90)	Fluoranthene	10.844	202	14765	1.9024	ng	92
92)	Pyrene	11.105	202	16669	2.1827	ng	85
93)	Benzidine	11.009	184	4692	1.2756	ng	87
95)	4,4'-DDE	11.234	246	3262	2.0330	ng	94
96)	4,4'-DDD	11.629	235	4996	1.7534	ng	95
97)	Butylbenzylphthalate	11.891	149	4541	1.4644	ng	76
98)	4,4'-DDT	11.987	235	3706	1.6312	ng	98
99)	3,3'-Dichlorobenzidine	12.505	252	4151	1.7765	ng	95
100)	Benzo[a]anthracene	12.526	228	16290	2.2047	ng	97
101)	Chrysene	12.569	228	15454	2.2858	ng	98
102)	bis(2-Ethylhexyl)phtha...	12.585	149	6310	1.4544	ng	91
104)	Di-n-octylphthalate	13.328	149	8983	1.1570	ng	100
105)	Benzo[b]fluoranthene	13.734	252	13661m	1.8564	ng	
106)	Benzo[k]fluoranthene	13.766	252	14192	2.0203	ng	89
107)	Benzo[a]pyrene	14.081	252	11516	1.8361	ng	91
108)	Indeno[1,2,3-cd]pyrene	15.369	276	14056	1.7821	ng	77
109)	Dibenzo[a,h]anthracene	15.390	278	11234	1.7251	ng	93
110)	Benzo[g,h,i]perylene	15.716	276	12546	1.9827	ng	73

(#) = qualifier out of range (m) = manual integration (+) = signals summed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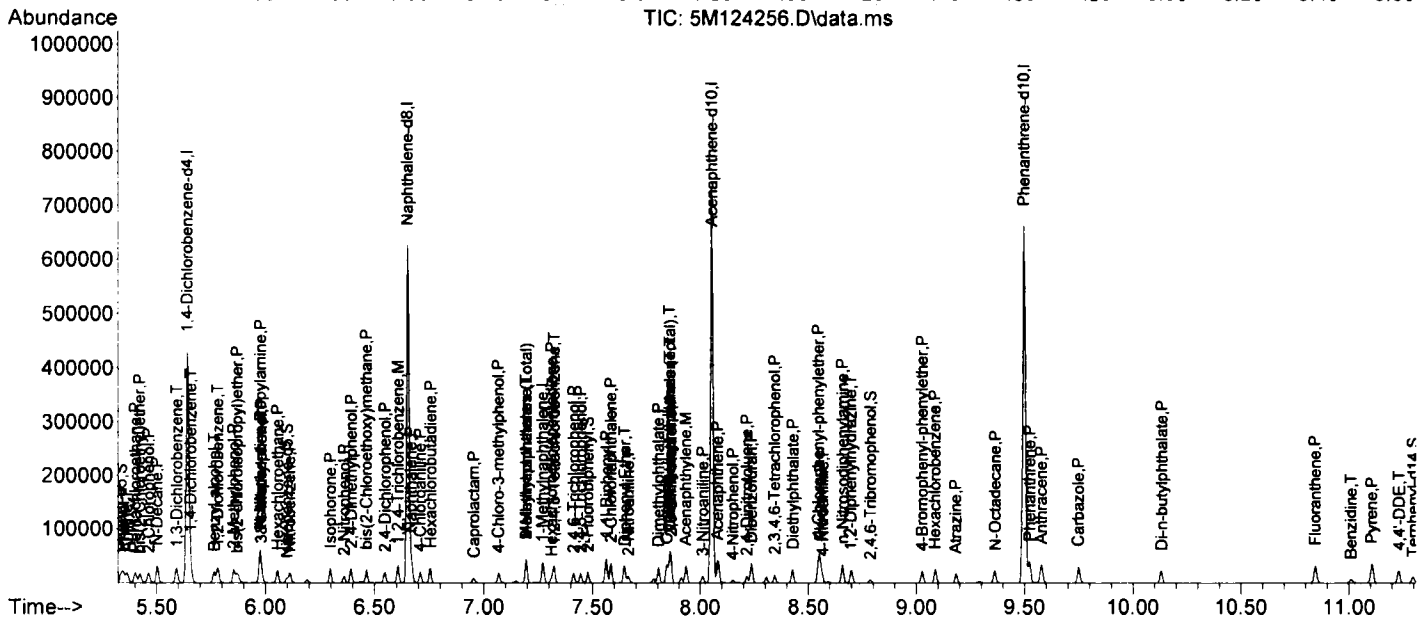
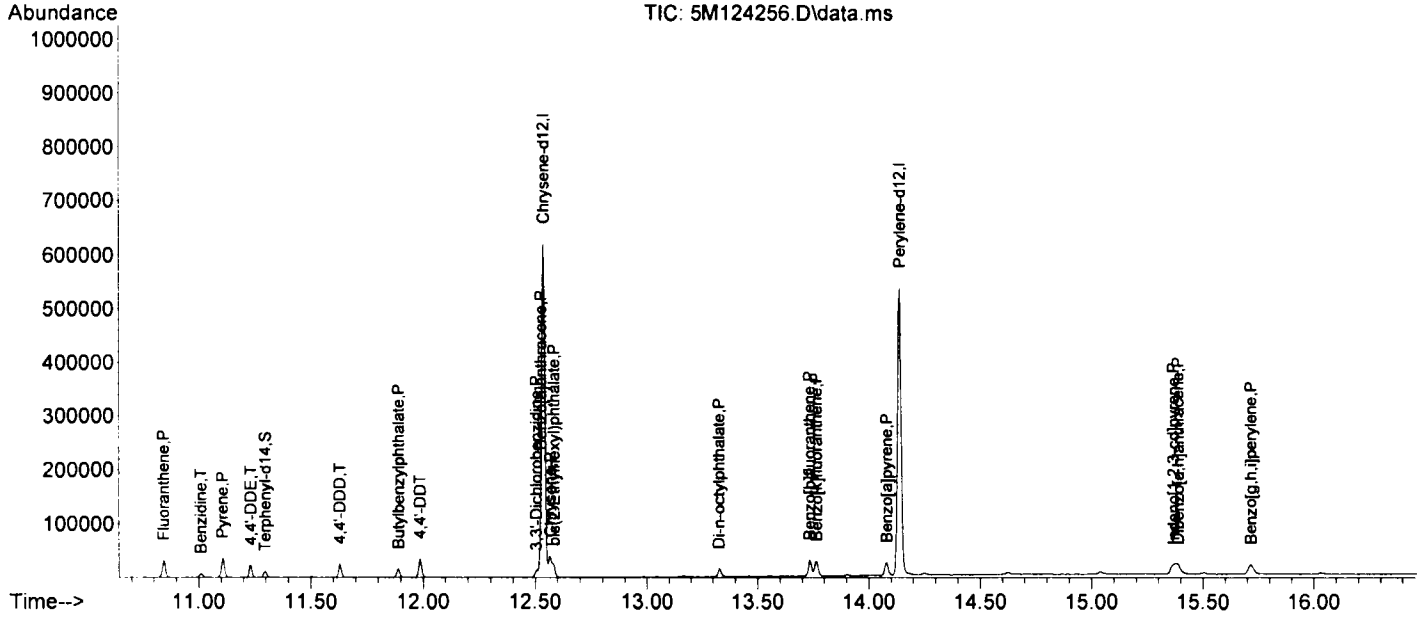
Quant QT Reviewed
SampleID : CAL BNA@2PPM
Data File: 5M124256.D
Acq On : 06/21/23 12:17
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 5M_0621.M
Qt On : 06721/23 12:34
Qt Upd On: 05/11/23 15:50
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
1,3-Dichlorobenzene,T
1,4-Dichlorobenzene-d4,I
Time-->


Abundance
TIC: 5M124256.D\data.ms
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Isophorone,P
bis(2-Chloroethoxy)methane,P
2,4-Dichlorophenol,P
1,2,4-Trichlorobenzene,M
Hexachlorobutadiene,P
Caprolactam,P
4-Chloro-3-methylphenol,P
Acenaphthylene,M
3-Nitroaniline,P
Acenaphthene,P
4-Nitrophenol,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
N-Octadecane,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 5M124256.D\data.ms
Chrysene-d12,I
Perylene-d12,I
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@10PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124257.D Sam Mult : 1 Vial# : 3 Qt On : 06/21/23 12:58
Acq On : 06/21/23 12:41 Misc : A,BNA Qt Upd On: 05/11/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.360	96	46121	40.00	ng	-0.04
21) 1,4-Dichlorobenzene-d4	5.640	152	66413	40.00	ng	-0.03
31) Naphthalene-d8	6.650	136	232816	40.00	ng	-0.03
50) Acenaphthene-d10	8.055	164	129563	40.00	ng	-0.04
77) Phenanthrene-d10	9.498	188	233711	40.00	ng	-0.04
91) Chrysene-d12	12.537	240	210427	40.00	ng	-0.05
103) Perylene-d12	14.140	264	208245	40.00	ng	-0.05
System Monitoring Compounds						
11) 2-Fluorophenol	4.433	112	17734	8.70	ng	-0.05
Spiked Amount 100.000			Recovery = 8.70%			
16) Phenol-d5	5.336	99	22527	8.87	ng	-0.04
Spiked Amount 100.000			Recovery = 8.87%			
32) Nitrobenzene-d5	6.100	128	4255	4.31	ng	-0.03
Spiked Amount 50.000			Recovery = 8.62%			
55) 2-Fluorobiphenyl	7.478	172	21444	4.65	ng	-0.03
Spiked Amount 50.000			Recovery = 9.30%			
80) 2,4,6-Tribromophenol	8.787	330	4623	7.74	ng	-0.04
Spiked Amount 100.000			Recovery = 7.74%			
94) Terphenyl-d14	11.298	244	17474	4.39	ng	-0.04
Spiked Amount 50.000			Recovery = 8.78%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.398	88	12852m	9.9129	ng	
9) Pyridine	2.841	79	21687	8.5895	ng	71
10) N-Nitrosodimethylamine	2.772	74	16583	8.8640	ng	71
12) Benzaldehyde	5.267	77	16161	9.1498	ng	79
13) Aniline	5.363	93	26187	8.3485	ng	60
14) Pentachloroethane	5.400	117	7241	9.2711	ng	70
15) bis(2-Chloroethyl)ether	5.421	93	20393	9.2765	ng	82
17) Phenol	5.347	94	27507	8.7389	ng	80
18) 2-Chlorophenol	5.459	128	20159	9.0659	ng	80
19) N-Decane	5.502	57	21328	8.9975	ng	96
20) 1,3-Dichlorobenzene	5.592	146	23793m	9.4473	ng	
22) 1,4-Dichlorobenzene	5.657	146	23724	8.8176	ng	97
23) 1,2-Dichlorobenzene	5.779	146	22531	8.9630	ng	98
24) Benzyl alcohol	5.763	108	12257	8.1342	ng	72
25) bis(2-chloroisopropyl)...	5.870	45	25746	8.5891	ng	100
26) 2-Methylphenol	5.854	108	17821	8.6671	ng	97
27) Acetophenone	5.977	105	26378	9.3493	ng	73
28) Hexachloroethane	6.057	117	8410	8.8174	ng	88
29) N-Nitroso-di-n-propyla...	5.977	70	13143	8.6265	ng	75
30) 3&4-Methylphenol	5.977	108	18425	8.7542	ng	89
33) Nitrobenzene	6.111	77	19813	8.9178	ng	80
34) Isophorone	6.298	82	34835	8.6163	ng	91
35) 2-Nitrophenol	6.362	139	8962	7.9329	ng	83
36) 2,4-Dimethylphenol	6.394	107	18025	8.7502	ng	92
37) Benzoic Acid	6.436	105	6669	5.4413	ng	83
38) bis(2-Chloroethoxy)met...	6.463	93	21921	8.6295	ng	97
39) 2,4-Dichlorophenol	6.549	162	15341	8.4907	ng	83
40) 1,2,4-Trichlorobenzene	6.607	180	19120	9.0282	ng	94
41) Naphthalene	6.672	128	58604	8.9577	ng	100
42) 4-Chloroaniline	6.709	127	19597	8.5592	ng	93
43) Hexachlorobutadiene	6.757	225	10879	9.2627	ng	99
44) Caprolactam	6.960	113	4539	7.8392	ng	64
45) 4-Chloro-3-methylphenol	7.067	107	14070	8.2293	ng	83
46) 2-Methylnaphthalene	7.195	142	37671	8.7621	ng	100
47) 1-Methylnaphthalene	7.270	142	34690	8.6820	ng	89
48) Methylnaphthalenes (To...	7.195	142	72357m	17.3919	ng	
49) 1,1'-Biphenyl	7.564	154	47519	9.1068	ng	95
51) 1,2,4,5-Tetrachloroben...	7.323	216	18862	9.2858	ng	95
52) Hexachlorocyclopentadiene	7.313	237	6143	6.5070	ng	99
53) 2,4,6-Trichlorophenol	7.414	196	10921	8.4049	ng	99
54) 2,4,5-Trichlorophenol	7.446	196	11747	8.4288	ng	98
56) 2-Chloronaphthalene	7.585	162	35821	8.9733	ng	89
57) 1,4-Dimethylnaphthalene	7.857	156	29432	9.1116	ng	90
58) Dimethylnaphthalenes (...	7.857	156	29432	9.1116	ng	90
59) Diphenyl Ether	7.649	170	24866	9.2112	ng	68
60) 2-Nitroaniline	7.665	65	10112	8.0452	ng	51
61) Coumarin	7.841	146	14407	9.2760	ng	97
62) Acenaphthylene	7.932	152	51119	9.0913	ng	99
63) Dimethylphthalate	7.804	163	38205	8.7726	ng	99
64) 2,6-Dinitrotoluene	7.863	165	8083	8.2196	ng	62
65) Acenaphthene	8.082	153	35412	8.8193	ng	95

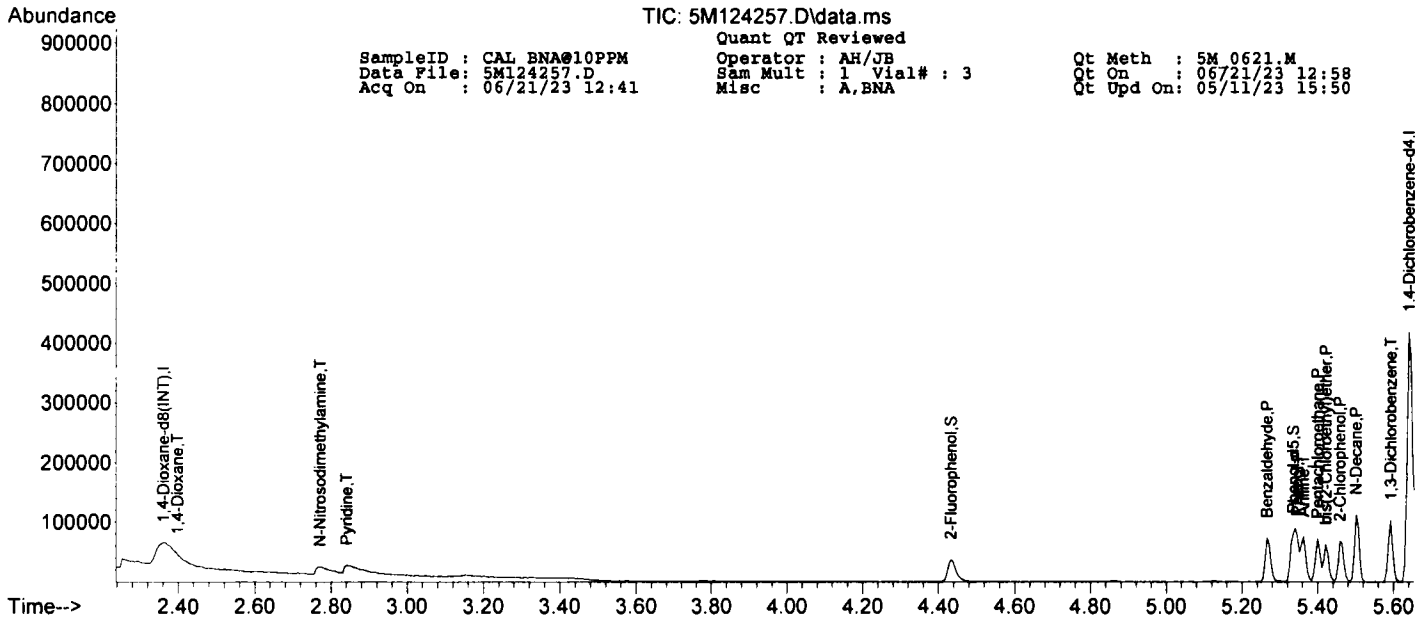
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@10PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124257.D Sam Mult : 1 Vial# : 3 Qt On : 06/21/23 12:58
Acq On : 06/21/23 12:41 Misc : A,BNA Qt Upd On: 05/11/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.012	138	8696	8.5999	ng	74
67)	2,4-Dinitrophenol	8.109	184	2040	6.0186	ng	1
68)	Dibenzofuran	8.237	168	51081	8.9779	ng	82
69)	2,4-Dinitrotoluene	8.215	165	9869	7.8344	ng	64
70)	4-Nitrophenol	8.146	65	4950	7.8147	ng	98
71)	2,3,4,6-Tetrachlorophenol	8.344	232	9166	8.2067	ng	82
72)	Fluorene	8.557	166	39781	8.6942	ng	97
73)	4-Chlorophenyl-phenyle...	8.547	204	19623	8.8104	ng	81
74)	Diethylphthalate	8.429	149	35094	8.5037	ng	95
75)	4-Nitroaniline	8.568	138	8725	7.8005	ng	68
76)	Atrazine	9.188	200	9345	7.8353	ng	94
78)	4,6-Dinitro-2-methylph...	8.595	198	3890	6.4703	ng	68
79)	n-Nitrosodiphenylamine	8.659	169	32182	8.5138	ng	99
81)	1,2-Diphenylhydrazine	8.702	77	39590	8.8353	ng	80
82)	4-Bromophenyl-phenylether	9.027	248	10868	8.2200	ng	81
83)	Hexachlorobenzene	9.092	284	12351	8.8015	ng	60
84)	N-Octadecane	9.364	57	16117	7.7573	ng	72
85)	Pentachlorophenol	9.295	266	4278	6.7185	ng	98
86)	Phenanthrene	9.524	178	58499	8.7522	ng	99
87)	Anthracene	9.578	178	57908	8.6360	ng	99
88)	Carbazole	9.749	167	52082	8.4404	ng	96
89)	Di-n-butylphthalate	10.133	149	52913	7.6803	ng	96
90)	Fluoranthene	10.844	202	59554	8.1672	ng	91
92)	Pyrene	11.106	202	63100	8.7858	ng	88
93)	Benzidine	11.009	184	19731	5.7038	ng	88
95)	4,4'-DDE	11.234	246	12408	8.2230	ng	95
96)	4,4'-DDD	11.634	235	21613	8.0655	ng	97
97)	Butylbenzylphthalate	11.891	149	20450	7.0126	ng	70
98)	4,4'-DDT	11.987	235	16387	7.6695	ng	98
99)	3,3'-Dichlorobenzidine	12.505	252	14856	6.7605	ng	97
100)	Benzo[a]anthracene	12.527	228	58455	8.4126	ng	99
101)	Chrysene	12.569	228	57643	9.0661	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.585	149	29012	7.1104	ng	94
104)	Di-n-octylphthalate	13.333	149	43076	5.9198	ng	100
105)	Benzo[b]fluoranthene	13.734	252	53052m	7.6923	ng	
106)	Benzo[k]fluoranthene	13.766	252	58495	8.8850	ng	92
107)	Benzo[a]pyrene	14.081	252	45643	7.7650	ng	90
108)	Indeno[1,2,3-cd]pyrene	15.369	276	57190	7.7367	ng	75
109)	Dibenzo[a,h]anthracene	15.385	278	47770	7.8272	ng	94
110)	Benzo[g,h,i]perylene	15.716	276	48982	8.2596	ng	74

(#) = qualifier out of range (m) = manual integration (+) = signals summed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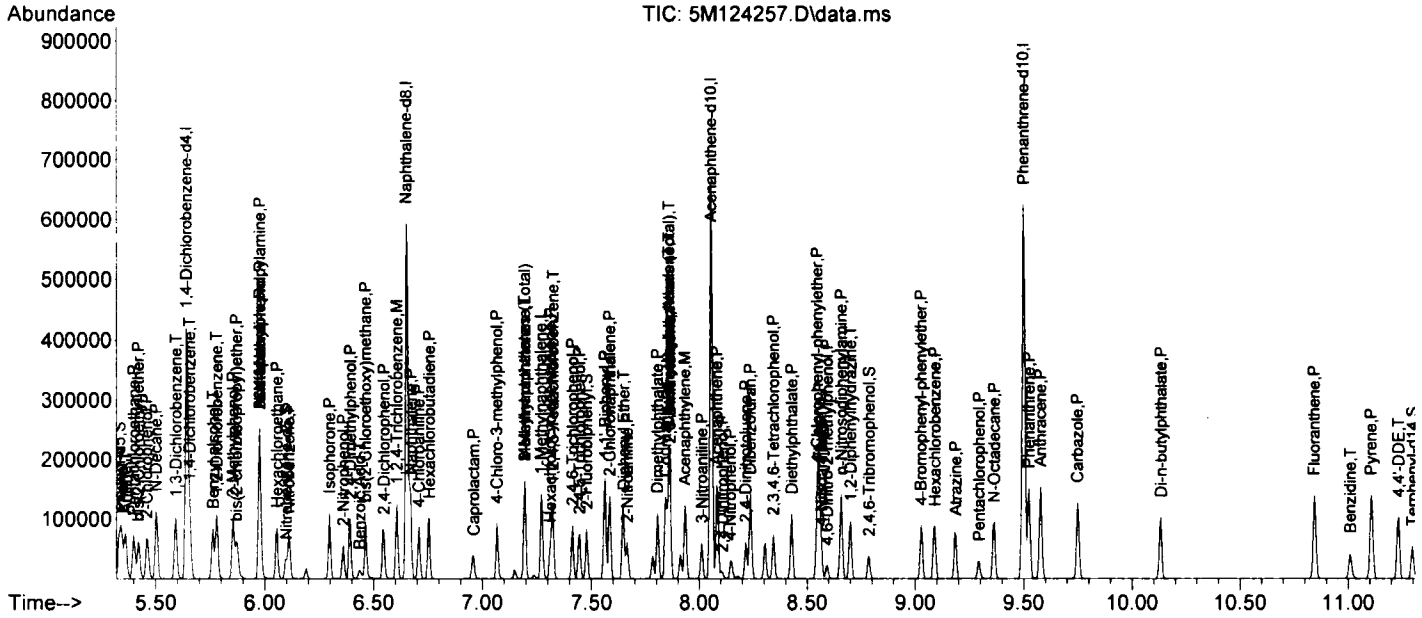
Quant QT Reviewed
SampleID : CAL BNA@10PPM
Data File: 5M124257.D
Acq On : 06/21/23 12:41
Operator : AH/JB
Sam Mult : 1 Vial# : 3
Misc : A,BNA
Qt Meth : 5M_0621.M
Qt On : 06/21/23 12:58
Qt Upd On: 05/11/23 15:50
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
1,3-Dichlorobenzene,T
1,4-Dichlorobenzene-d4,I
Time-->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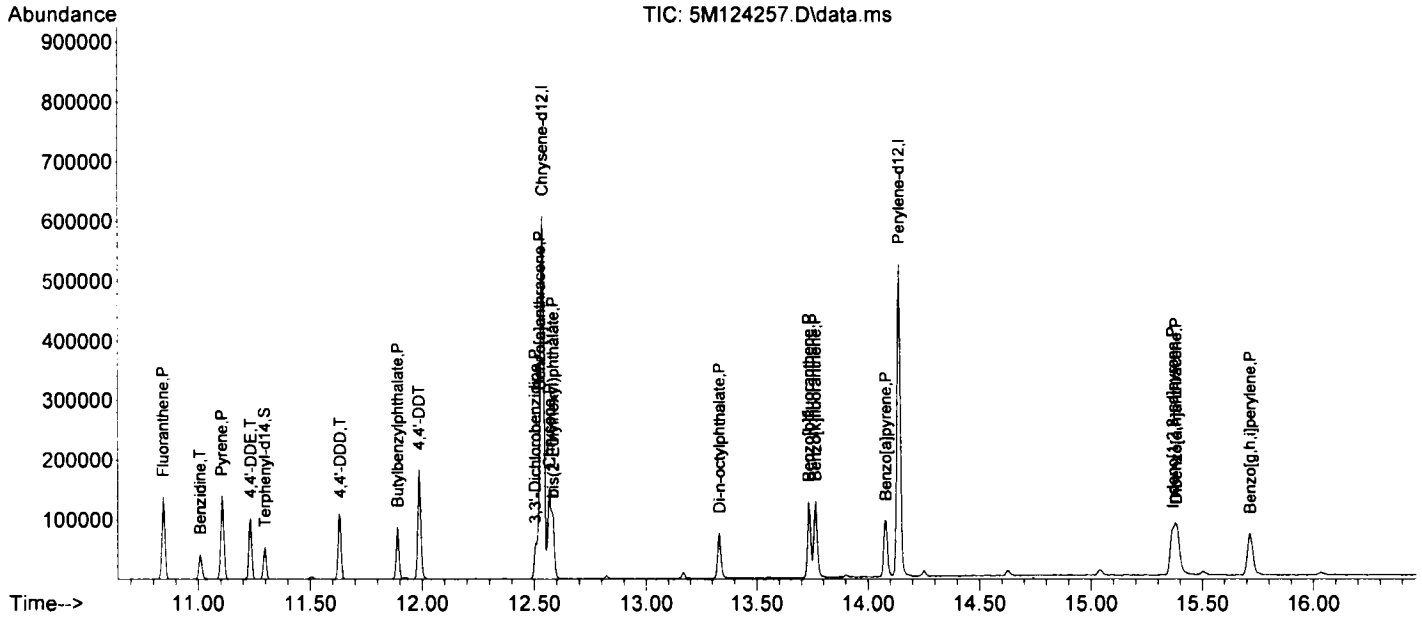
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
2,4-Dichlorophenol,P
2,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Time-->


Abundance
TIC: 5M124257.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Chrysene-d12,I
Di-n-octylphthalate,P
Perylene-d12,I
Benzo[a]pyrene,P
Indeno[1,2,3-cd]pyrene,P
Dibenz[a,h]anthracene,P
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@20PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124262.D Sam Mult : 1 Vial# : 8 Qt On : 06/21/23 15:13
Acq On : 06/21/23 14:39 Misc : A,BNA Qt Upd On: 05/11/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.355	96	53086	40.00	ng	-0.05
21) 1,4-Dichlorobenzene-d4	5.640	152	78280	40.00	ng	-0.03
31) Naphthalene-d8	6.650	136	272851	40.00	ng	-0.03
50) Acenaphthene-d10	8.055	164	150848	40.00	ng	-0.04
77) Phenanthrene-d10	9.497	188	279073	40.00	ng	-0.04
91) Chrysene-d12	12.537	240	252777	40.00	ng	-0.05
103) Perylene-d12	14.140	264	250036	40.00	ng	-0.05
System Monitoring Compounds						
11) 2-Fluorophenol	4.433	112	44308	18.89	ng	-0.05
Spiked Amount 100.000			Recovery = 18.89%			
16) Phenol-d5	5.330	99	54043	18.49	ng	-0.05
Spiked Amount 100.000			Recovery = 18.49%			
32) Nitrobenzene-d5	6.094	128	10256	8.87	ng	-0.03
Spiked Amount 50.000			Recovery = 17.74%			
55) 2-Fluorobiphenyl	7.478	172	48935	9.12	ng	-0.03
Spiked Amount 50.000			Recovery = 18.24%			
80) 2,4,6-Tribromophenol	8.787	330	11741	16.47	ng	-0.04
Spiked Amount 100.000			Recovery = 16.47%			
94) Terphenyl-d14	11.298	244	43233	9.05	ng	-0.04
Spiked Amount 50.000			Recovery = 18.10%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.387	88	26208	17.5623	ng	99
9) Pyridine	2.825	79	53410	18.3784	ng	69
10) N-Nitrosodimethylamine	2.761	74	40009	18.5800	ng	72
12) Benzaldehyde	5.266	77	39117	19.2411	ng	77
13) Aniline	5.363	93	63558	17.6039	ng	58
14) Pentachloroethane	5.400	117	17603	19.5811	ng	72
15) bis(2-Chloroethyl)ether	5.421	93	48281	19.0808	ng	80
17) Phenol	5.346	94	65813	18.1653	ng	79
18) 2-Chlorophenol	5.459	128	48564	18.9747	ng	80
19) N-Decane	5.501	57	50425	18.4816	ng	97
20) 1,3-Dichlorobenzene	5.592	146	54814m	18.9091	ng	
22) 1,4-Dichlorobenzene	5.656	146	55639	17.5446	ng	98
23) 1,2-Dichlorobenzene	5.779	146	52766	17.8086	ng	98
24) Benzyl alcohol	5.763	108	31636	17.8122	ng	67
25) bis(2-chloroisopropyl)...	5.870	45	59618	16.8739	ng	98
26) 2-Methylphenol	5.854	108	42699	17.6182	ng	98
27) Acetophenone	5.977	105	63222	19.0112	ng	73
28) Hexachloroethane	6.057	117	19954	17.7491	ng	86
29) N-Nitroso-di-n-propyla...	5.977	70	32649	18.1808	ng	75
30) 3&4-Methylphenol	5.977	108	46244	18.6409	ng	97
33) Nitrobenzene	6.110	77	47487	18.2376	ng	81
34) Isophorone	6.297	82	85456	18.0358	ng	90
35) 2-Nitrophenol	6.362	139	23295	17.5945	ng	83
36) 2,4-Dimethylphenol	6.388	107	43577	18.0504	ng	94
37) Benzoic Acid	6.447	105	22243	15.1154	ng	82
38) bis(2-Chloroethoxy)met...	6.463	93	53757	18.0571	ng	97
39) 2,4-Dichlorophenol	6.543	162	38627	18.2419	ng	87
40) 1,2,4-Trichlorobenzene	6.607	180	44513	17.9344	ng	97
41) Naphthalene	6.666	128	137756	17.9666	ng	99
42) 4-Chloroaniline	6.709	127	48158	17.9472	ng	95
43) Hexachlorobutadiene	6.757	225	24939	18.1182	ng	96
44) Caprolactam	6.965	113	12333	18.1747	ng	69
45) 4-Chloro-3-methylphenol	7.067	107	35569	17.7512	ng	82
46) 2-Methylnaphthalene	7.195	142	88801	17.6241	ng	99
47) 1-Methylnaphthalene	7.270	142	83858	17.9080	ng	93
48) Methylnaphthalenes (To...	7.195	142	171733m	35.2216	ng	
49) 1,1'-Biphenyl	7.564	154	111424	18.2207	ng	93
51) 1,2,4,5-Tetrachloroben...	7.323	216	45054	19.0504	ng	99
52) Hexachlorocyclopentadiene	7.312	237	16153	14.6958	ng	98
53) 2,4,6-Trichlorophenol	7.414	196	26739	17.6749	ng	99
54) 2,4,5-Trichlorophenol	7.446	196	28933	17.8309	ng	98
56) 2-Chloronaphthalene	7.585	162	83872	18.0457	ng	89
57) 1,4-Dimethylnaphthalene	7.857	156	69443	18.4648	ng	87
58) Dimethylnaphthalenes (...	7.857	156	69443	18.4648	ng	87
59) Diphenyl Ether	7.649	170	59353	18.8841	ng	71
60) 2-Nitroaniline	7.665	65	25910	17.7055	ng	55
61) Coumarin	7.847	146	34287	18.9609	ng	99
62) Acenaphthylene	7.937	152	119552	18.2617	ng	99
63) Dimethylphthalate	7.804	163	90345	17.8177	ng	99
64) 2,6-Dinitrotoluene	7.863	165	20695	18.0753	ng	65
65) Acenaphthene	8.087	153	83655	17.8943	ng	96

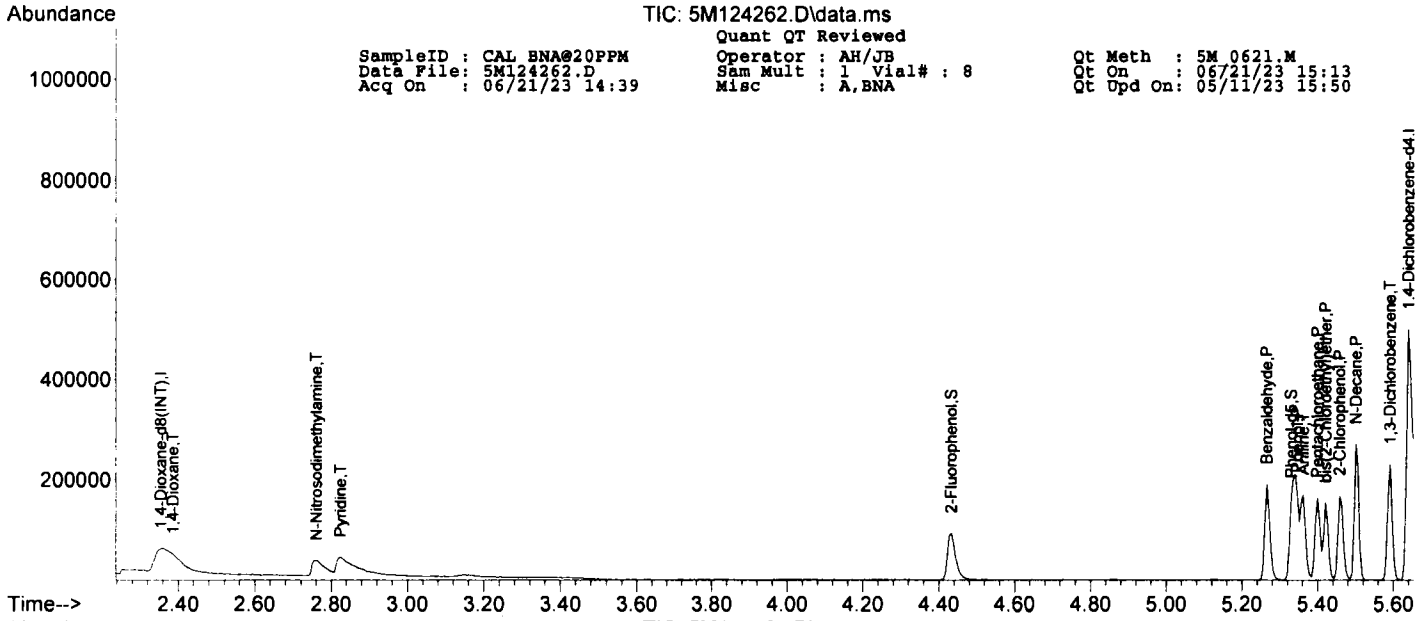
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@20PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124262.D Sam Mult : 1 Vial# : 8 Qt On : 06/21/23 15:13
Acq On : 06/21/23 14:39 Misc : A,BNA Qt Upd On: 05/11/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.012	138	21479	18.2444	ng	75
67)	2,4-Dinitrophenol	8.103	184	6894	16.6106	ng	39
68)	Dibenzofuran	8.237	168	118467	17.8835	ng	84
69)	2,4-Dinitrotoluene	8.215	165	25788	17.5830	ng	67
70)	4-Nitrophenol	8.146	65	13904	18.4411	ng	90
71)	2,3,4,6-Tetrachlorophenol	8.343	232	23966	18.4299	ng	79
72)	Fluorene	8.557	166	96475	18.1096	ng	100
73)	4-Chlorophenyl-phenyle...	8.547	204	46381	17.8860	ng	80
74)	Diethylphthalate	8.429	149	84268	17.5380	ng	96
75)	4-Nitroaniline	8.568	138	23035	17.6884	ng	71
76)	Atrazine	9.188	200	24641	17.7449	ng	96
78)	4,6-Dinitro-2-methylph...	8.595	198	11626	15.8381	ng	79
79)	n-Nitrosodiphenylamine	8.659	169	78828	17.4643	ng	98
81)	1,2-Diphenylhydrazine	8.701	77	98340	18.3792	ng	80
82)	4-Bromophenyl-phenylether	9.027	248	26530	16.8043	ng	81
83)	Hexachlorobenzene	9.091	284	29564	17.6433	ng	60
84)	N-Octadecane	9.364	57	40620	16.3730	ng	73
85)	Pentachlorophenol	9.294	266	13303	16.9800	ng	94
86)	Phenanthrene	9.524	178	135638	16.9946	ng	100
87)	Anthracene	9.578	178	136345	17.0283	ng	100
88)	Carbazole	9.748	167	123865	16.8107	ng	96
89)	Di-n-butylphthalate	10.133	149	138908	16.8851	ng	96
90)	Fluoranthene	10.844	202	148583	17.0644	ng	92
92)	Pyrene	11.111	202	156047	18.0872	ng	86
93)	Benzidine	11.009	184	58625	14.1080	ng	87
95)	4,4'-DDE	11.234	246	31673	17.4737	ng	95
96)	4,4'-DDD	11.629	235	56426	17.5291	ng	97
97)	Butylbenzylphthalate	11.891	149	56881	16.2373	ng	68
98)	4,4'-DDT	11.987	235	44145	17.1995	ng	99
99)	3,3'-Dichlorobenzidine	12.505	252	42440	16.0775	ng	96
100)	Benzo[a]anthracene	12.526	228	149471	17.9072	ng	100
101)	Chrysene	12.569	228	138431	18.1246	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.585	149	80971	16.5199	ng	93
104)	Di-n-octylphthalate	13.333	149	128383	14.6943	ng	99
105)	Benzo[b]fluoranthene	13.739	252	134044m	16.1874	ng	
106)	Benzo[k]fluoranthene	13.766	252	143623	18.1691	ng	93
107)	Benzo[a]pyrene	14.081	252	120284	17.0429	ng	91
108)	Indeno[1,2,3-cd]pyrene	15.369	276	144993	16.3363	ng	79
109)	Dibenzo[a,h]anthracene	15.390	278	119553	16.3149	ng	95
110)	Benzo[g,h,i]perylene	15.716	276	117114	16.4476	ng	75

(#) = qualifier out of range (m) = manual integration (+) = signals summed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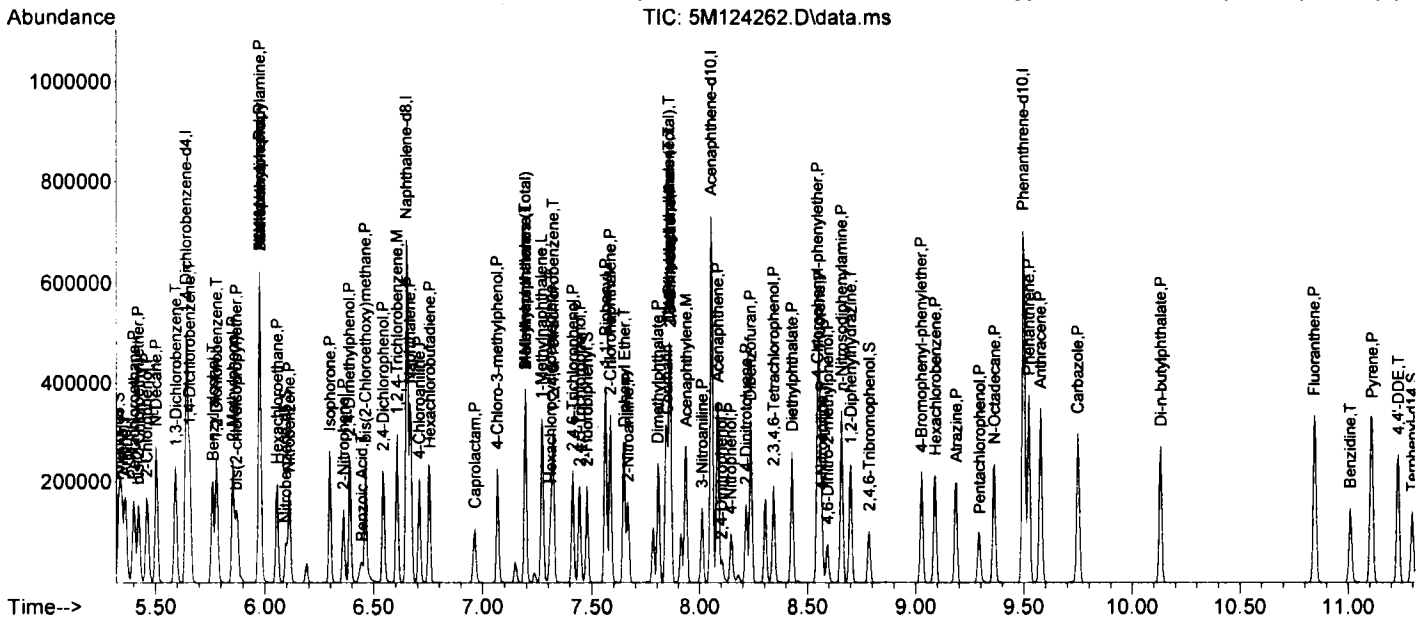
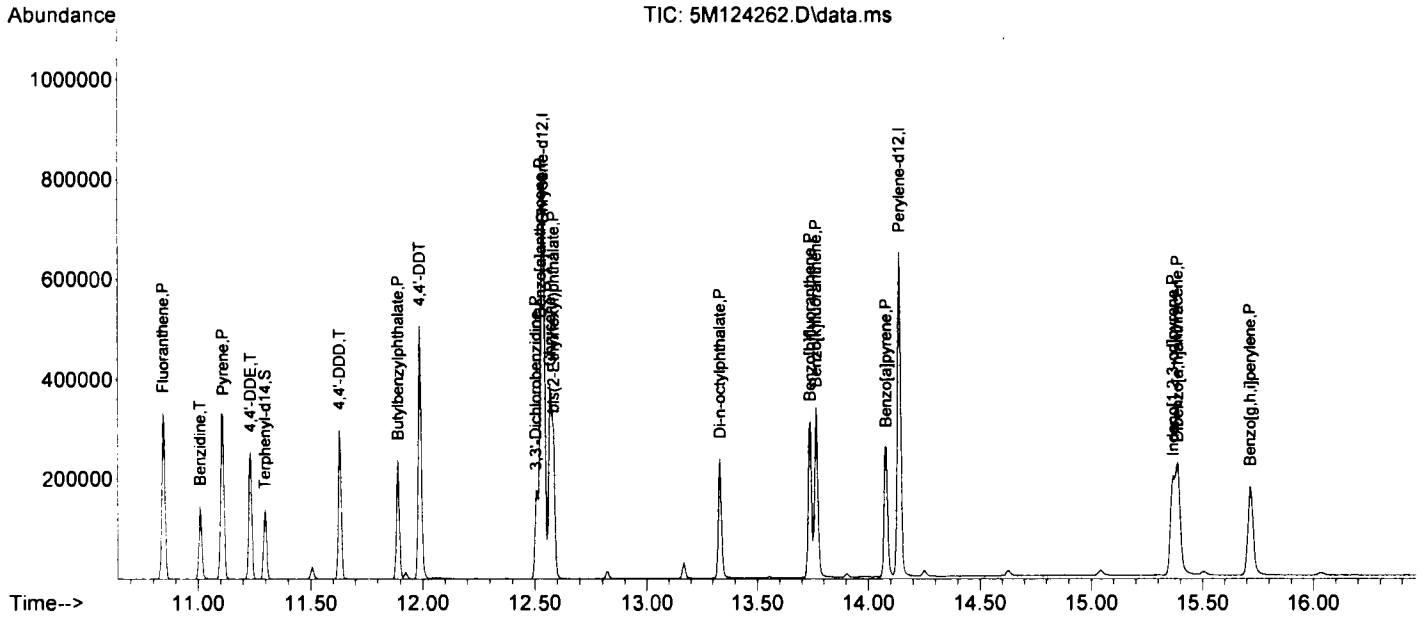
TIC: 5M124262.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@20PPM
Data File: 5M124262.D
Acq On : 06/21/23 14:39
Operator : AH/JB
Sam Mult : 1 Vial# : 8
Misc : A,BNA
Qt Meth : 5M 0621.M
Qt On : 06/21/23 15:13
Qt Upd On: 05/11/23 15:50
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
1,3-Dichlorobenzene,T
1,4-Dichlorobenzene-d4,I
Time-->


Abundance
TIC: 5M124262.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
2-Nitrophenol,P
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Time-->


Abundance
TIC: 5M124262.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Perylene-d12,I
Benzo[a]pyrene,P
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@80PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124261.D Sam Mult : 1 Vial# : 7 Qt On : 06/21/23 14:30
Acq On : 06/21/23 14:16 Misc : A,BNA Qt Upd On: 05/11/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.355	96	54825	40.00	ng	-0.05
21) 1,4-Dichlorobenzene-d4	5.646	152	76871	40.00	ng	-0.03
31) Naphthalene-d8	6.655	136	263834	40.00	ng	-0.03
50) Acenaphthene-d10	8.060	164	149394	40.00	ng	-0.03
77) Phenanthrene-d10	9.503	188	274717	40.00	ng	-0.04
91) Chrysene-d12	12.543	240	259957	40.00	ng	-0.04
103) Perylene-d12	14.140	264	250220	40.00	ng	-0.05
System Monitoring Compounds						
11) 2-Fluorophenol	4.433	112	191583	79.10	ng	-0.05
Spiked Amount 100.000			Recovery = 79.10%			
16) Phenol-d5	5.336	99	236053	78.18	ng	-0.04
Spiked Amount 100.000			Recovery = 78.18%			
32) Nitrobenzene-d5	6.100	128	43554	38.96	ng	-0.03
Spiked Amount 50.000			Recovery = 77.92%			
55) 2-Fluorobiphenyl	7.478	172	203118	38.23	ng	-0.03
Spiked Amount 50.000			Recovery = 76.46%			
80) 2,4,6-Tribromophenol	8.787	330	54875	78.18	ng	-0.04
Spiked Amount 100.000			Recovery = 78.18%			
94) Terphenyl-d14	11.298	244	183508	37.35	ng	-0.04
Spiked Amount 50.000			Recovery = 74.70%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.392	88	109355	70.9558	ng	99
9) Pyridine	2.814	79	231920	77.2725	ng	67
10) N-Nitrosodimethylamine	2.756	74	176261	79.2584	ng	74
12) Benzaldehyde	5.266	77	167272	79.6689	ng	79
13) Aniline	5.363	93	265953m	71.3256	ng	
14) Pentachloroethane	5.400	117	71968	77.5158	ng	74
15) bis(2-Chloroethyl)ether	5.427	93	198215	75.8505	ng	79
17) Phenol	5.347	94	284117	75.9329	ng	82
18) 2-Chlorophenol	5.464	128	203865	77.1265	ng	79
19) N-Decane	5.507	57	212692m	75.4823	ng	
20) 1,3-Dichlorobenzene	5.592	146	228733m	76.4027	ng	
22) 1,4-Dichlorobenzene	5.656	146	231516	74.3419	ng	98
23) 1,2-Dichlorobenzene	5.779	146	218686	75.1596	ng	96
24) Benzyl alcohol	5.763	108	134825	77.3026	ng	70
25) bis(2-chloroisopropyl)...	5.875	45	236112	68.0526	ng	98
26) 2-Methylphenol	5.854	108	181154	76.1167	ng	97
27) Acetophenone	5.977	105	269615	82.5607	ng	68
28) Hexachloroethane	6.057	117	82446	74.6799	ng	90
29) N-Nitroso-di-n-propyla...	5.977	70	140021	79.4007	ng	70
30) 3&4-Methylphenol	5.982	108	196009	80.4590	ng	98
33) Nitrobenzene	6.116	77	194006	77.0553	ng	77
34) Isophorone	6.303	82	364510	79.5604	ng	87
35) 2-Nitrophenol	6.362	139	102846	80.3334	ng	86
36) 2,4-Dimethylphenol	6.394	107	178281	76.3711	ng	92
37) Benzoic Acid	6.479	105	132160	80.0448	ng	85
38) bis(2-Chloroethoxy)met...	6.468	93	221009	76.7746	ng	96
39) 2,4-Dichlorophenol	6.549	162	165160	80.6638	ng	85
40) 1,2,4-Trichlorobenzene	6.607	180	181893	75.7899	ng	97
41) Naphthalene	6.671	128	581470	78.4293	ng	99
42) 4-Chloroaniline	6.709	127	197369m	76.0681	ng	
43) Hexachlorobutadiene	6.757	225	105999	79.6403	ng	97
44) Caprolactam	6.987	113	52631	80.2113	ng	70
45) 4-Chloro-3-methylphenol	7.072	107	151737	78.3145	ng	80
46) 2-Methylnaphthalene	7.195	142	377631	77.5087	ng	100
47) 1-Methylnaphthalene	7.275	142	352094	77.7600	ng	94
48) Methylnaphthalenes (To...	7.195	142	723706m	153.5013	ng	
49) 1,1'-Biphenyl	7.564	154	468602	79.2473	ng	95
51) 1,2,4,5-Tetrachloroben...	7.323	216	185415	79.1631	ng	99
52) Hexachlorocyclopentadiene	7.312	237	80380	73.8404	ng	98
53) 2,4,6-Trichlorophenol	7.414	196	115799	77.2898	ng	100
54) 2,4,5-Trichlorophenol	7.446	196	124032	77.1828	ng	99
56) 2-Chloronaphthalene	7.585	162	349416	75.9112	ng	91
57) 1,4-Dimethylnaphthalene	7.863	156	292935	78.6490	ng	85
58) Dimethylnaphthalenes (...	7.863	156	292935	78.6490	ng	85
59) Diphenyl Ether	7.649	170	238945	76.7641	ng	74
60) 2-Nitroaniline	7.670	65	108648	74.9669	ng	44
61) Coumarin	7.852	146	140550	78.4813	ng	93
62) Acenaphthylene	7.938	152	487602	75.2069	ng	99
63) Dimethylphthalate	7.815	163	376639	75.0033	ng	99
64) 2,6-Dinitrotoluene	7.868	165	86752	76.5079	ng	61
65) Acenaphthene	8.087	153	339005	73.2211	ng	98

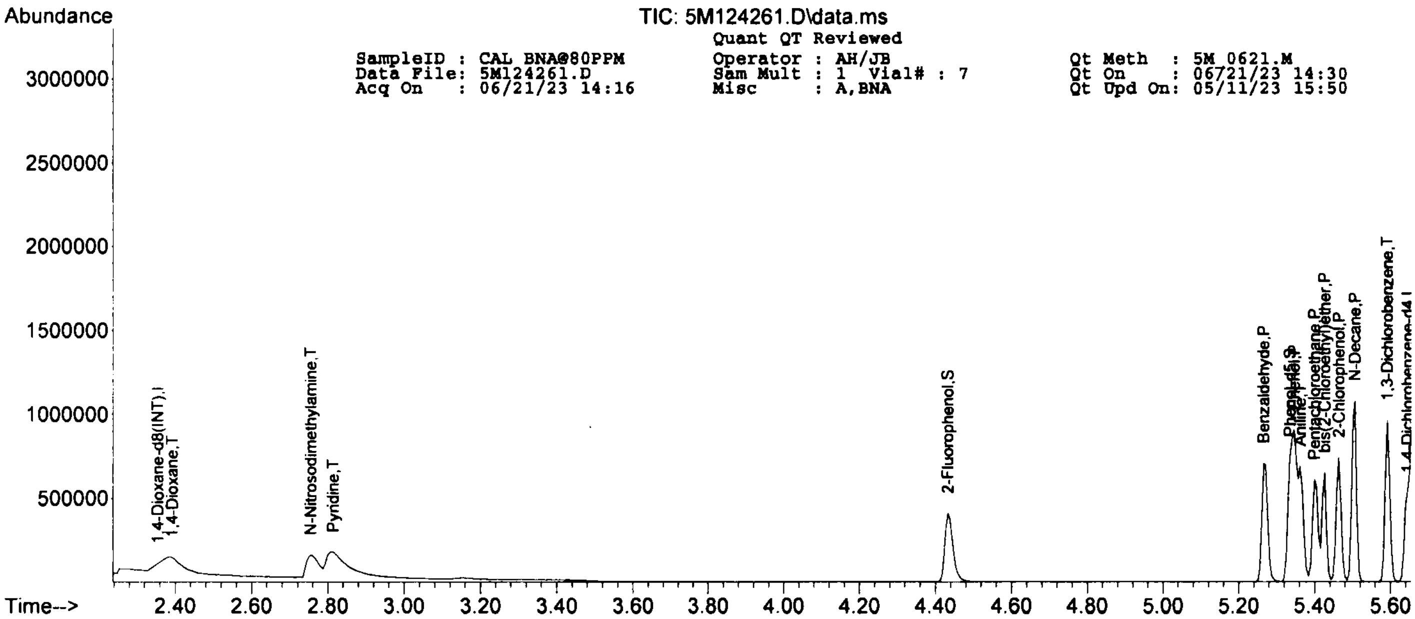
Quantitation Report (QT Reviewed)

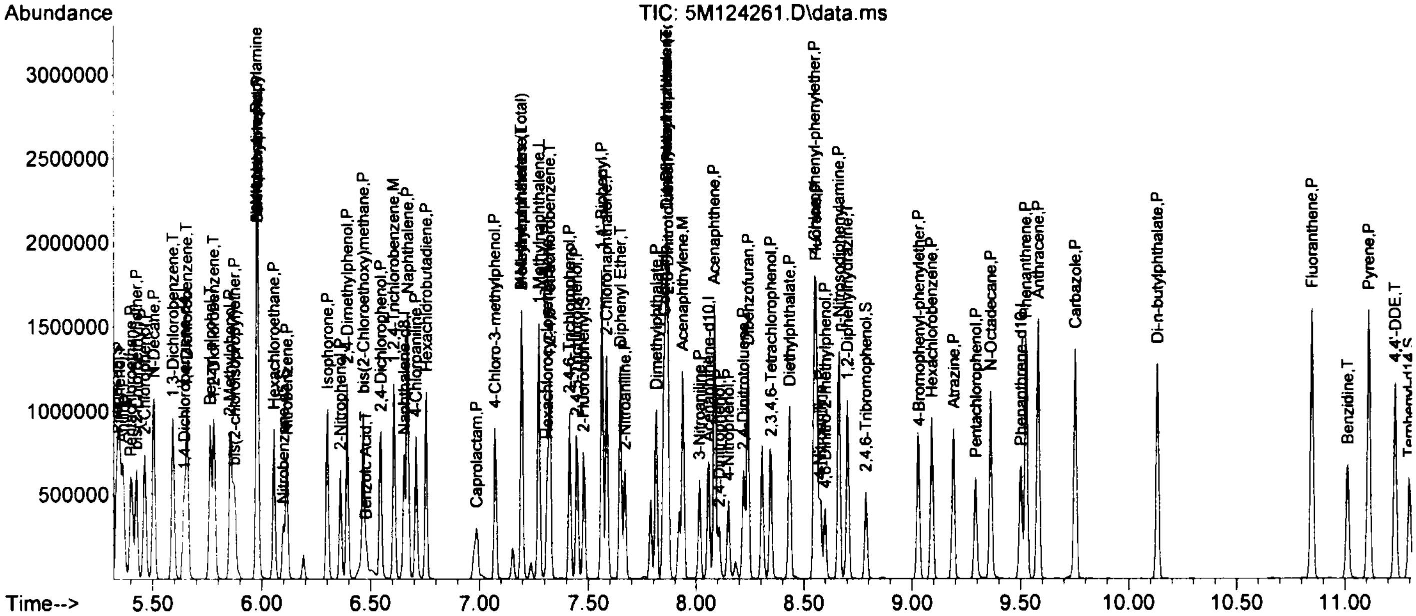
SampleID : CAL BNA@80PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124261.D Sam Mult : 1 Vial# : 7 Qt On : 06/21/23 14:30
Acq On : 06/21/23 14:16 Misc : A,BNA Qt Upd On: 05/11/23 15:50

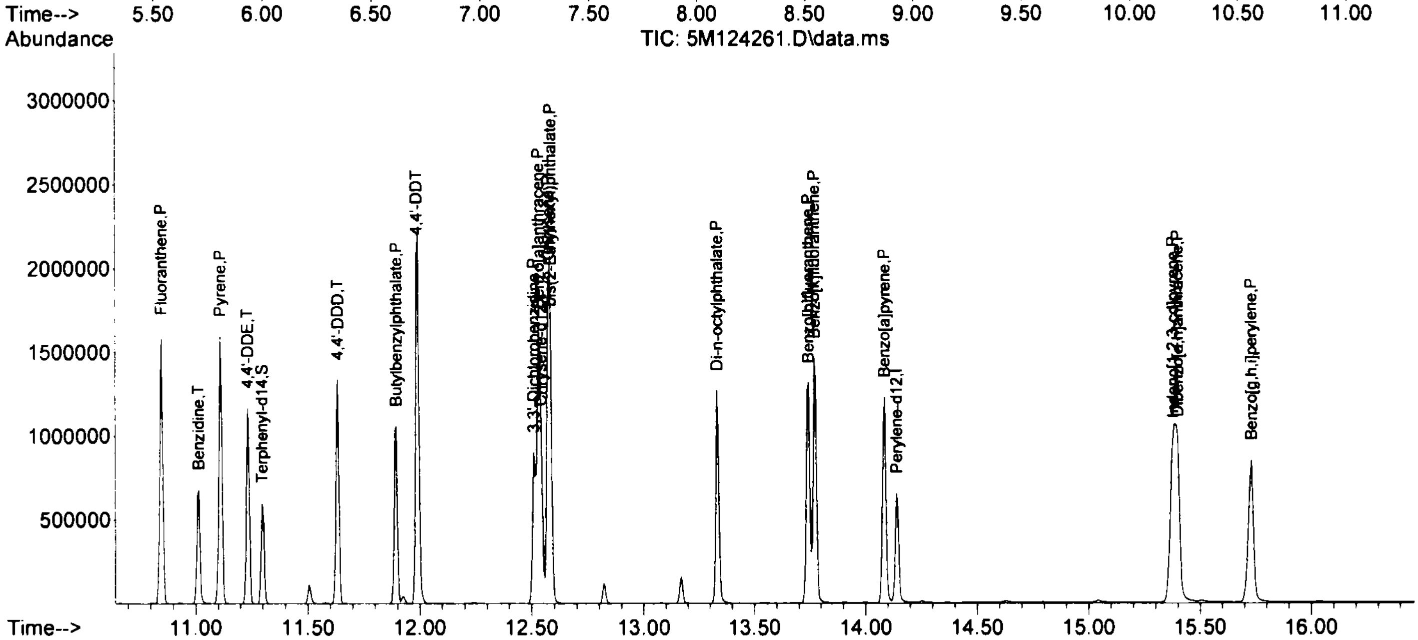
Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.018	138	88240	75.6812	ng	74
67)	2,4-Dinitrophenol	8.108	184	43427	81.2650	ng	31
68)	Dibenzofuran	8.242	168	489034	74.5418	ng	82
69)	2,4-Dinitrotoluene	8.221	165	111303	76.6282	ng	64
70)	4-Nitrophenol	8.151	65	63315	75.8373	ng	85
71)	2,3,4,6-Tetrachlorophenol	8.349	232	101864	79.0961	ng	81
72)	Fluorene	8.557	166	405964	76.9462	ng	98
73)	4-Chlorophenyl-phenyle...	8.552	204	201498	78.4605	ng	76
74)	Diethylphthalate	8.434	149	357839	75.1990	ng	96
75)	4-Nitroaniline	8.579	138	97112	75.2972	ng	71
76)	Atrazine	9.193	200	105636	76.8130	ng	94
78)	4,6-Dinitro-2-methylph...	8.600	198	62356	75.6649	ng	74
79)	n-Nitrosodiphenylamine	8.664	169	330644	74.4155	ng	99
81)	1,2-Diphenylhydrazine	8.701	77	405233	76.9366	ng	84
82)	4-Bromophenyl-phenylether	9.033	248	114846	73.8976	ng	76
83)	Hexachlorobenzene	9.091	284	121386	73.5898	ng	64
84)	N-Octadecane	9.364	57	176785	72.3881	ng	72
85)	Pentachlorophenol	9.294	266	73507	80.5809	ng	99
86)	Phenanthrene	9.524	178	572767	72.9020	ng	99
87)	Anthracene	9.583	178	588407	74.6523	ng	99
88)	Carbazole	9.754	167	545502	75.2085	ng	97
89)	Di-n-butylphthalate	10.133	149	640422	79.0815	ng	97
90)	Fluoranthene	10.849	202	657993	76.7671	ng	91
92)	Pyrene	11.111	202	680365	76.6819	ng	89
93)	Benzidine	11.015	184	283158	66.2592	ng	84
95)	4,4'-DDE	11.234	246	135690	72.7912	ng	96
96)	4,4'-DDD	11.634	235	252708	76.3372	ng	97
97)	Butylbenzylphthalate	11.896	149	272722	75.7014	ng	66
98)	4,4'-DDT	11.987	235	208768	79.0922	ng	99
99)	3,3'-Dichlorobenzidine	12.510	252	194624	71.6928	ng	94
100)	Benzo[a]anthracene	12.532	228	631974	73.6218	ng	99
101)	Chrysene	12.575	228	591318	75.2824	ng	100
102)	bis(2-Ethylhexyl)phtha...	12.585	149	386886	76.7535	ng	93
104)	Di-n-octylphthalate	13.333	149	648877	74.2138	ng	99
105)	Benzo[b]fluoranthene	13.745	252	588958	71.0713	ng	97
106)	Benzo[k]fluoranthene	13.771	252	611535m	77.3058	ng	
107)	Benzo[a]pyrene	14.086	252	530038	75.0454	ng	90
108)	Indeno[1,2,3-cd]pyrene	15.379	276	654175	73.6515	ng	83
109)	Dibenzo[a,h]anthracene	15.401	278	540840	73.7518	ng	95
110)	Benzo[g,h,i]perylene	15.732	276	522766	73.3640	ng	76

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M124261.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@80PPM
Data File: 5M124261.D
Acq On : 06/21/23 14:16
Operator : AH/JB
Sam Mult : 1 Vial# : 7
Misc : A,BNA
Qt Meth : 5M_0621.M
Qt On : 06/21/23 14:30
Qt Upd On: 05/11/23 15:50
3000000
2500000
2000000
1500000
1000000
500000
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
1,3-Dichlorobenzene,T
Time-->
2.40
2.60
2.80
3.00
3.20
3.40
3.60
3.80
4.00
4.20
4.40
4.60
4.80
5.00
5.20
5.40
5.60


Abundance
TIC: 5M124261.D\data.ms
3000000
2500000
2000000
1500000
1000000
500000
1,3-Dichlorobenzene,T
Hexachloroethane,P
Isophorone,P
2-Nitrophenol,P
2,4-Dimethylphenol,P
bis(2-Chloroethoxy)methane,P
2,4-Dichlorophenol,P
Benzoic Acid,T
Naphthalene,P
4-Chloroaniline,P
Hexachlorobutadiene,P
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Nitroaniline,P
Diphenyl Ether,T
Dimethylphthalate,P
Acenaphthylene,M
Acenaphthene,P
3-Nitroaniline,P
Dibenzofuran,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
1,2-Diphenylhydrazine,T
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene-d10,I
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Time-->
5.50
6.00
6.50
7.00
7.50
8.00
8.50
9.00
9.50
10.00
10.50
11.00


Abundance
TIC: 5M124261.D\data.ms
3000000
2500000
2000000
1500000
1000000
500000
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->
11.00
11.50
12.00
12.50
13.00
13.50
14.00
14.50
15.00
15.50
16.00

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@120PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124260.D Sam Mult : 1 Vial# : 6 Qt On : 06/21/23 14:13
Acq On : 06/21/23 13:52 Misc : A,BNA Qt Upd On: 05/11/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.360	96	51309	40.00	ng	-0.04
21) 1,4-Dichlorobenzene-d4	5.646	152	71242	40.00	ng	-0.03
31) Naphthalene-d8	6.655	136	244578	40.00	ng	-0.03
50) Acenaphthene-d10	8.060	164	134400	40.00	ng	-0.03
77) Phenanthrene-d10	9.503	188	241766	40.00	ng	-0.04
91) Chrysene-d12	12.543	240	228847	40.00	ng	-0.04
103) Perylene-d12	14.140	264	223580	40.00	ng	-0.05
System Monitoring Compounds						
11) 2-Fluorophenol	4.438	112	270408	119.29	ng	-0.04
Spiked Amount 100.000			Recovery = 119.29%			
16) Phenol-d5	5.341	99	328153	116.13	ng	-0.04
Spiked Amount 100.000			Recovery = 116.13%			
32) Nitrobenzene-d5	6.100	128	62091	59.92	ng	-0.03
Spiked Amount 50.000			Recovery = 119.84%			
55) 2-Fluorobiphenyl	7.483	172	280361	58.65	ng	-0.03
Spiked Amount 50.000			Recovery = 117.30%			
80) 2,4,6-Tribromophenol	8.792	330	76040	123.09	ng	-0.03
Spiked Amount 100.000			Recovery = 123.09%			
94) Terphenyl-d14	11.303	244	258821	59.84	ng	-0.04
Spiked Amount 50.000			Recovery = 119.68%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.392	88	147485	102.2544	ng	97
9) Pyridine	2.814	79	325950	116.0440	ng	66
10) N-Nitrosodimethylamine	2.756	74	245823	118.1127	ng	74
12) Benzaldehyde	5.272	77	232207	118.1750	ng	74
13) Aniline	5.368	93	367627m	105.3496	ng	
14) Pentachloroethane	5.405	117	100569	115.7444	ng	74
15) bis(2-Chloroethyl)ether	5.427	93	278583	113.9099	ng	78
17) Phenol	5.352	94	387807	110.7474	ng	85
18) 2-Chlorophenol	5.464	128	281872	113.9457	ng	81
19) N-Decane	5.507	57	285516m	108.2703	ng	
20) 1,3-Dichlorobenzene	5.592	146	315953m	112.7684	ng	
22) 1,4-Dichlorobenzene	5.656	146	317333	109.9497	ng	96
23) 1,2-Dichlorobenzene	5.785	146	296393	109.9152	ng	98
24) Benzyl alcohol	5.763	108	186273	115.2392	ng	71
25) bis(2-chloroisopropyl)...	5.875	45	316357	98.3853	ng	99
26) 2-Methylphenol	5.859	108	249273	113.0144	ng	97
27) Acetophenone	5.982	105	377590	124.7603	ng	69
28) Hexachloroethane	6.057	117	114293	111.7070	ng	89
29) N-Nitroso-di-n-propyla...	5.982	70	192829	117.9859	ng	68
30) 3&4-Methylphenol	5.982	108	273690	121.2227	ng	99
33) Nitrobenzene	6.116	77	268688	115.1196	ng	79
34) Isophorone	6.303	82	500379	117.8148	ng	88
35) 2-Nitrophenol	6.362	139	144629	121.8647	ng	86
36) 2,4-Dimethylphenol	6.394	107	256781	118.6589	ng	93
37) Benzoic Acid	6.490	105	189804	115.3435	ng	86
38) bis(2-Chloroethoxy)met...	6.468	93	308668	115.6678	ng	97
39) 2,4-Dichlorophenol	6.549	162	230428	121.4011	ng	86
40) 1,2,4-Trichlorobenzene	6.613	180	256271	115.1882	ng	95
41) Naphthalene	6.671	128	777251	113.0904	ng	98
42) 4-Chloroaniline	6.709	127	262798m	109.2594	ng	
43) Hexachlorobutadiene	6.757	225	145278	117.7455	ng	97
44) Caprolactam	6.997	113	75485	124.0990	ng	71
45) 4-Chloro-3-methylphenol	7.077	107	213988	119.1389	ng	76
46) 2-Methylnaphthalene	7.195	142	514427	113.8991	ng	98
47) 1-Methylnaphthalene	7.275	142	482951	115.0573	ng	91
48) Methylnaphthalenes (To...	7.195	142	996830m	228.0784	ng	
49) 1,1'-Biphenyl	7.564	154	644441	117.5647	ng	95
51) 1,2,4,5-Tetrachloroben...	7.323	216	254622	120.8391	ng	99
52) Hexachlorocyclopentadiene	7.312	237	114044	116.4535	ng	100
53) 2,4,6-Trichlorophenol	7.414	196	162640m	120.6642	ng	
54) 2,4,5-Trichlorophenol	7.451	196	173257m	119.8427	ng	
56) 2-Chloronaphthalene	7.590	162	484048	116.8922	ng	88
57) 1,4-Dimethylnaphthalene	7.863	156	412760	123.1837	ng	87
58) Dimethylnaphthalenes (...	7.863	156	412760	123.1837	ng	87
59) Diphenyl Ether	7.649	170	329382	117.6234	ng	75
60) 2-Nitroaniline	7.670	65	150028	115.0678	ng	46
61) Coumarin	7.852	146	202402	125.6272	ng	97
62) Acenaphthylene	7.943	152	676227	115.9360	ng	99
63) Dimethylphthalate	7.815	163	523369	115.8502	ng	99
64) 2,6-Dinitrotoluene	7.873	165	121008	118.6245	ng	54
65) Acenaphthene	8.087	153	483530	116.0881	ng	97

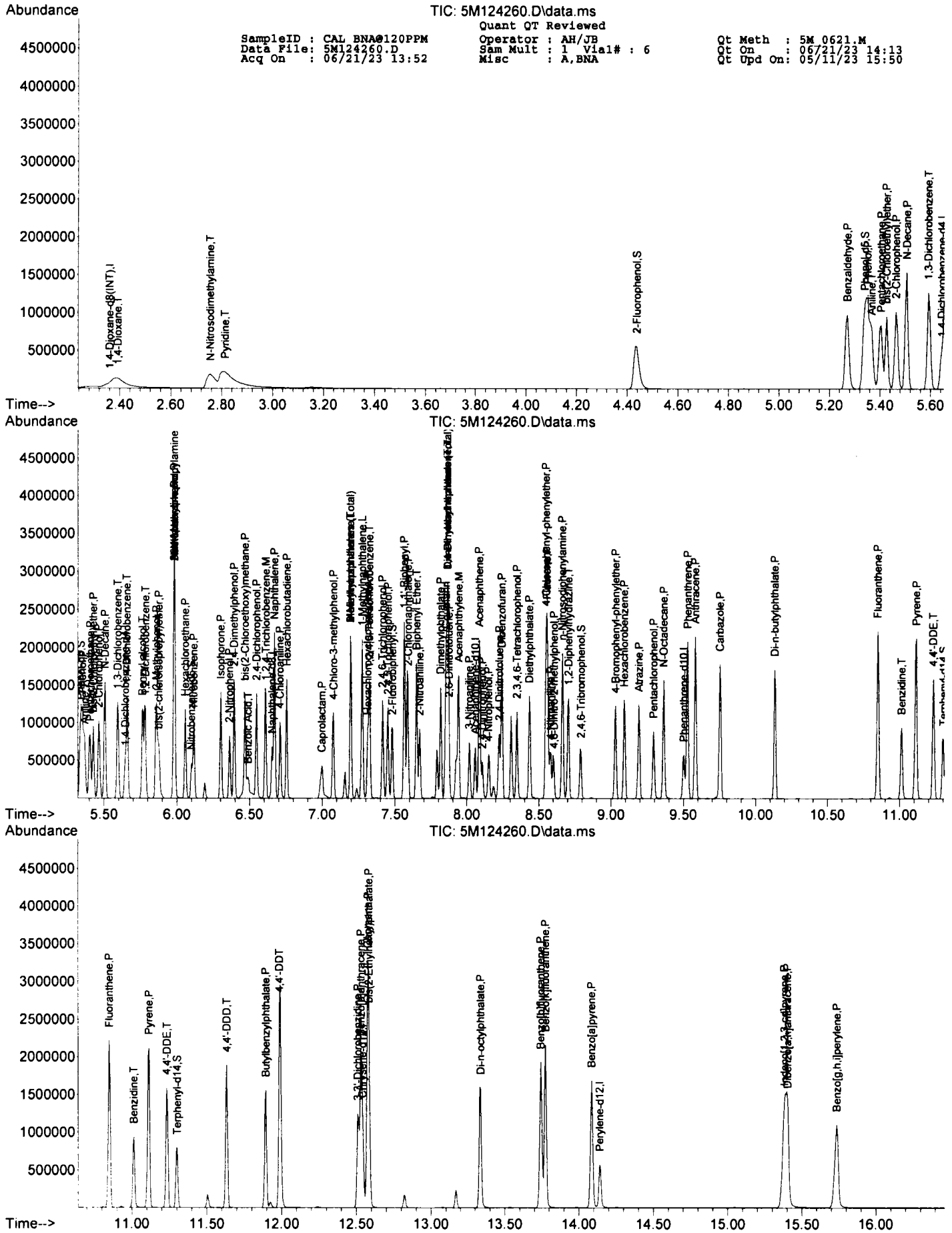
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@120PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124260.D Sam Mult : 1 Vial# : 6 Qt On : 06/21/23 14:13
Acq On : 06/21/23 13:52 Misc : A,BNA Qt Upd On: 05/11/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.018	138	119219	113.6585	ng	77
67)	2,4-Dinitrophenol	8.108	184	64469	118.4017	ng	37
68)	Dibenzofuran	8.242	168	674108	114.2153	ng	84
69)	2,4-Dinitrotoluene	8.226	165	157016	120.1598	ng	58
70)	4-Nitrophenol	8.151	65	91911	114.2853	ng	91
71)	2,3,4,6-Tetrachlorophenol	8.349	232	141860	122.4413	ng	81
72)	Fluorene	8.557	166	566437	119.3397	ng	99
73)	4-Chlorophenyl-phenyle...	8.552	204	280156	121.2590	ng	78
74)	Diethylphthalate	8.434	149	506233	118.2521	ng	97
75)	4-Nitroaniline	8.584	138	136787	117.8921	ng	71
76)	Atrazine	9.193	200	149734	121.0256	ng	96
78)	4,6-Dinitro-2-methylph...	8.605	198	88804	113.5784	ng	78
79)	n-Nitrosodiphenylamine	8.664	169	455914	116.5940	ng	99
81)	1,2-Diphenylhydrazine	8.707	77	566870	122.2931	ng	78
82)	4-Bromophenyl-phenylether	9.033	248	159103	116.3277	ng	78
83)	Hexachlorobenzene	9.091	284	169628	116.8521	ng	67
84)	N-Octadecane	9.364	57	249361	116.0221	ng	72
85)	Pentachlorophenol	9.294	266	103886	118.4893	ng	97
86)	Phenanthrene	9.530	178	794868	114.9601	ng	100
87)	Anthracene	9.583	178	811517	116.9912	ng	98
88)	Carbazole	9.754	167	752028	117.8134	ng	97
89)	Di-n-butylphthalate	10.133	149	896870	125.8429	ng	98
90)	Fluoranthene	10.849	202	923887	122.4795	ng	93
92)	Pyrene	11.116	202	955125	122.2834	ng	86
93)	Benzidine	11.015	184	387102	102.8961	ng	85
95)	4,4'-DDE	11.234	246	198094	120.7143	ng	95
96)	4,4'-DDD	11.634	235	356304	122.2627	ng	98
97)	Butylbenzylphthalate	11.896	149	392967	123.9070	ng	68
98)	4,4'-DDT	11.987	235	290796	125.1453	ng	99
99)	3,3'-Dichlorobenzidine	12.510	252	277497	116.1165	ng	94
100)	Benzo[a]anthracene	12.532	228	889074	117.6525	ng	99
101)	Chrysene	12.580	228	843578	121.9983	ng	100
102)	bis(2-Ethylhexyl)phtha...	12.585	149	559720	126.1369	ng	92
104)	Di-n-octylphthalate	13.339	149	928880	118.8970	ng	100
105)	Benzo[b]fluoranthene	13.745	252	810404	109.4461	ng	99
106)	Benzo[k]fluoranthene	13.777	252	833684	117.9455	ng	94
107)	Benzo[a]pyrene	14.086	252	738645	117.0421	ng	93
108)	Indeno[1,2,3-cd]pyrene	15.385	276	933246	117.5907	ng	84
109)	Dibenzo[a,h]anthracene	15.406	278	769694	117.4657	ng	95
110)	Benzo[g,h,i]perylene	15.737	276	724179	113.7393	ng	76

(#) = qualifier out of range (m) = manual integration (+) = signals summed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Quant QT Reviewed
SampleID : CAL BNA@120PPM
Data File: 5M124260.D
Acq On : 06/21/23 13:52
Operator : AH/JB
Sam Mult : 1 Vial# : 6
Misc : A,BNA
Qt Meth : 5M_0621.M
Qt On : 06/21/23 14:13
Qt Upd On: 05/11/23 15:50
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Phenol-d5,S
Aniline,T
Bis(2-Chloroethyl)ether,P
2-Chlorophenol,P
N-Decane,P
1,3-Dichlorobenzene,T
1,4-Dichlorobenzene-d4,I
Time-->
Abundance
TIC: 5M124260.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
Acenaphthylene,M
Acenaphthene,P
Benzofuran,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Time-->
Abundance
TIC: 5M124260.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@160PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124259.D Sam Mult : 1 Vial# : 5 Qt On : 06/21/23 14:12
Acq On : 06/21/23 13:28 Misc : A,BNA Qt Upd On: 05/11/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.355	96	50724	40.00	ng	-0.05
21) 1,4-Dichlorobenzene-d4	5.646	152	67561	40.00	ng	-0.03
31) Naphthalene-d8	6.655	136	232381	40.00	ng	-0.03
50) Acenaphthene-d10	8.060	164	129184	40.00	ng	-0.03
77) Phenanthrene-d10	9.503	188	233393	40.00	ng	-0.04
91) Chrysene-d12	12.548	240	225259	40.00	ng	-0.04
103) Perylene-d12	14.145	264	216306	40.00	ng	-0.04
System Monitoring Compounds						
11) 2-Fluorophenol	4.438	112	365581	163.14	ng	-0.04
Spiked Amount 100.000			Recovery = 163.14%			
16) Phenol-d5	5.341	99	440213	157.59	ng	-0.04
Spiked Amount 100.000			Recovery = 157.59%			
32) Nitrobenzene-d5	6.100	128	82388	83.68	ng	-0.03
Spiked Amount 50.000			Recovery = 167.36%			
55) 2-Fluorobiphenyl	7.483	172	384037	83.58	ng	-0.03
Spiked Amount 50.000			Recovery = 167.16%			
80) 2,4,6-Tribromophenol	8.792	330	105492	176.90	ng	-0.03
Spiked Amount 100.000			Recovery = 176.90%			
94) Terphenyl-d14	11.303	244	341425	80.19	ng	-0.04
Spiked Amount 50.000			Recovery = 160.38%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.392	88	200700m	140.7542	ng	
9) Pyridine	2.809	79	438726	157.9956	ng	67
10) N-Nitrosodimethylamine	2.756	74	329550	160.1679	ng	72
12) Benzaldehyde	5.272	77	305944	157.4971	ng	77
13) Aniline	5.368	93	501789	145.4544	ng	49
14) Pentachloroethane	5.405	117	136185	158.5423	ng	74
15) bis(2-Chloroethyl)ether	5.427	93	380157	157.2353	ng	79
17) Phenol	5.352	94	530328	153.1943	ng	84
18) 2-Chlorophenol	5.469	128	377126	154.2100	ng	78
19) N-Decane	5.507	57	387477m	148.6295	ng	
20) 1,3-Dichlorobenzene	5.592	146	426942m	154.1394	ng	
22) 1,4-Dichlorobenzene	5.662	146	426721	155.9060	ng	97
23) 1,2-Dichlorobenzene	5.785	146	402386	157.3521	ng	98
24) Benzyl alcohol	5.769	108	250723	163.5628	ng	68
25) bis(2-chloroisopropyl)...	5.875	45	416307	136.5233	ng	100
26) 2-Methylphenol	5.859	108	336381	160.8163	ng	98
27) Acetophenone	5.982	105	487665	169.9094	ng	66
28) Hexachloroethane	6.057	117	154690	159.4274	ng	88
29) N-Nitroso-di-n-propyla...	5.982	70	251021	161.9600	ng	66
30) 3&4-Methylphenol	5.988	108	356420	166.4666	ng	99
33) Nitrobenzene	6.121	77	360512	162.5689	ng	74
34) Isophorone	6.308	82	661103	163.8275	ng	85
35) 2-Nitrophenol	6.367	139	198375	175.9244	ng	79
36) 2,4-Dimethylphenol	6.399	107	353444	171.8995	ng	91
37) Benzoic Acid	6.500	105	264030	156.2280	ng	86
38) bis(2-Chloroethoxy)met...	6.468	93	411763	162.3996	ng	97
39) 2,4-Dichlorophenol	6.548	162	309973	171.8811	ng	87
40) 1,2,4-Trichlorobenzene	6.613	180	344935	163.1784	ng	96
41) Naphthalene	6.671	128	1041281	159.4590	ng	98
42) 4-Chloroaniline	6.714	127	331127m	144.8933	ng	
43) Hexachlorobutadiene	6.757	225	199984	170.5912	ng	95
44) Caprolactam	7.008	113	102330	177.0627	ng	69
45) 4-Chloro-3-methylphenol	7.077	107	289472	169.6241	ng	76
46) 2-Methylnaphthalene	7.200	142	700097	163.1441	ng	99
47) 1-Methylnaphthalene	7.275	142	655370	164.3291	ng	93
48) Methylnaphthalenes (To...	7.200	142	1363176m	328.2705	ng	
49) 1,1'-Biphenyl	7.569	154	866733	166.4163	ng	94
51) 1,2,4,5-Tetrachloroben...	7.328	216	353379	174.4789	ng	98
52) Hexachlorocyclopentadiene	7.312	237	158192	168.0565	ng	98
53) 2,4,6-Trichlorophenol	7.419	196	225941m	174.3960	ng	
54) 2,4,5-Trichlorophenol	7.451	196	236440m	170.1501	ng	
56) 2-Chloronaphthalene	7.590	162	669425	168.1859	ng	90
57) 1,4-Dimethylnaphthalene	7.868	156	552216	171.4570	ng	85
58) Dimethylnaphthalenes (...	7.868	156	552216	171.4570	ng	85
59) Diphenyl Ether	7.649	170	455126	169.0893	ng	77
60) 2-Nitroaniline	7.676	65	203053	162.0248	ng	39
61) Coumarin	7.857	146	276297	178.4168	ng	84
62) Acenaphthylene	7.943	152	924658	164.9292	ng	98
63) Dimethylphthalate	7.820	163	701925	161.6479	ng	98
64) 2,6-Dinitrotoluene	7.873	165	165412	168.7011	ng	58
65) Acenaphthene	8.092	153	654544	163.4909	ng	97

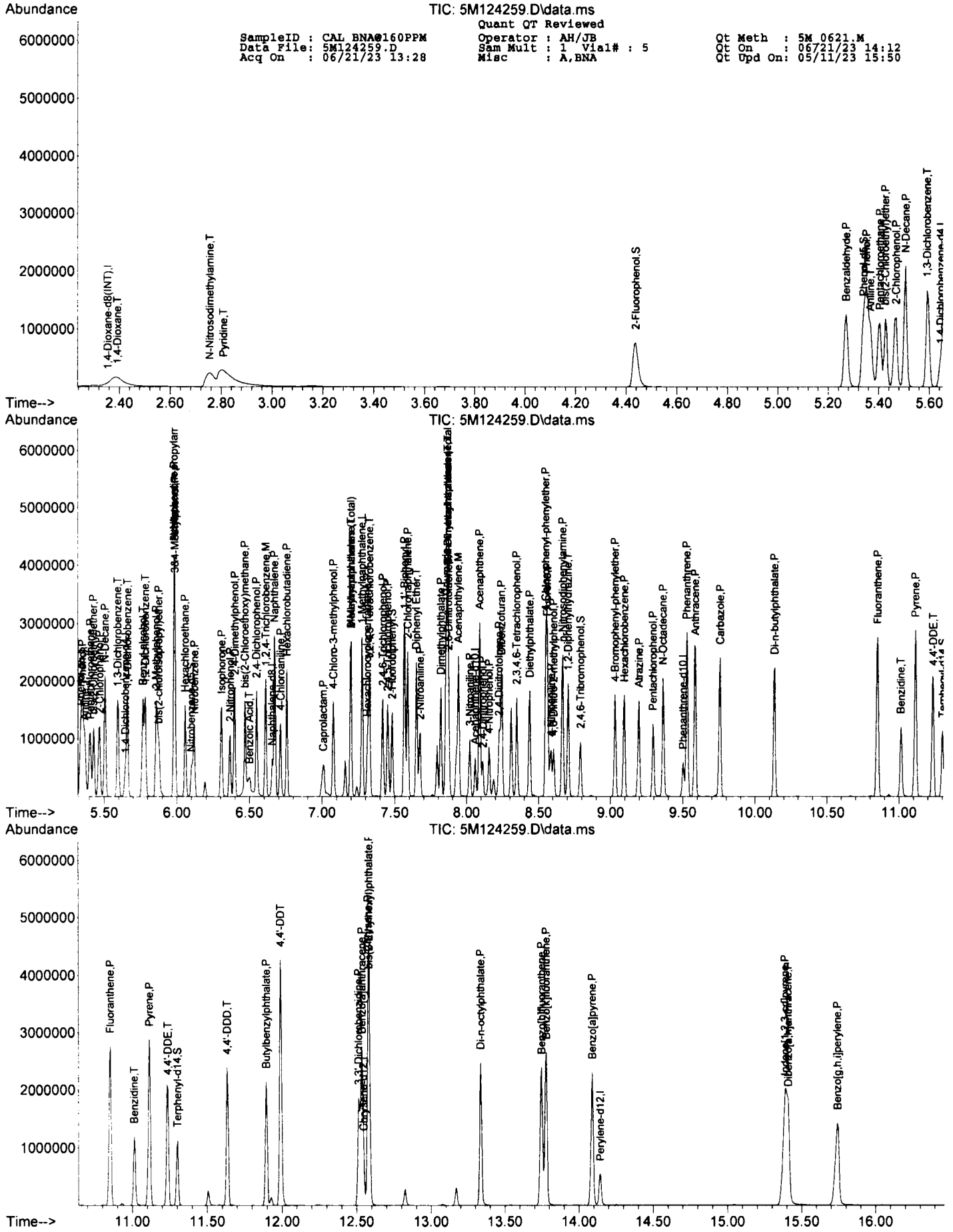
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@160PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124259.D Sam Mult : 1 Vial# : 5 Qt On : 06/21/23 14:12
Acq On : 06/21/23 13:28 Misc : A,BNA Qt Upd On: 05/11/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.023	138	155431	154.1646	ng	74
67)	2,4-Dinitrophenol	8.114	184	92084	156.9038	ng	29
68)	Dibenzofuran	8.242	168	911832	160.7312	ng	84
69)	2,4-Dinitrotoluene	8.226	165	216654	172.4935	ng	65
70)	4-Nitrophenol	8.157	65	120417	147.3907	ng	90
71)	2,3,4,6-Tetrachlorophenol	8.349	232	200272	179.8369	ng	82
72)	Fluorene	8.563	166	762882	167.2173	ng	98
73)	4-Chlorophenyl-phenyle...	8.552	204	384096	172.9595	ng	79
74)	Diethylphthalate	8.440	149	687632	167.1109	ng	97
75)	4-Nitroaniline	8.589	138	184700	165.6141	ng	71
76)	Atrazine	9.198	200	206874	173.9615	ng	96
78)	4,6-Dinitro-2-methylph...	8.605	198	122648	151.5141	ng	68
79)	n-Nitrosodiphenylamine	8.669	169	632170	167.4691	ng	99
81)	1,2-Diphenylhydrazine	8.707	77	757531	169.2881	ng	81
82)	4-Bromophenyl-phenylether	9.033	248	219467	166.2193	ng	81
83)	Hexachlorobenzene	9.097	284	229396	163.6938	ng	62
84)	N-Octadecane	9.364	57	336756	162.3061	ng	71
85)	Pentachlorophenol	9.294	266	148956	160.8350	ng	98
86)	Phenanthrene	9.529	178	1082943	162.2426	ng	98
87)	Anthracene	9.588	178	1074612	160.4778	ng	97
88)	Carbazole	9.759	167	1020003	165.5272	ng	96
89)	Di-n-butylphthalate	10.138	149	1232771	179.1798	ng	97
90)	Fluoranthene	10.854	202	1231837	169.1629	ng	91
92)	Pyrene	11.116	202	1260846	163.9956	ng	90
93)	Benzidine	11.015	184	497963	134.4726	ng	88
95)	4,4'-DDE	11.239	246	273699	169.4430	ng	95
96)	4,4'-DDD	11.634	235	477031	166.2965	ng	98
97)	Butylbenzylphthalate	11.896	149	539451	172.8045	ng	70
98)	4,4'-DDT	11.992	235	398343	174.1591	ng	99
99)	3,3'-Dichlorobenzidine	12.516	252	367508	156.2304	ng	96
100)	Benzo[a]anthracene	12.537	228	1202891	161.7159	ng	98
101)	Chrysene	12.580	228	1116163	163.9907	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.585	149	768304	175.9007	ng	93
104)	Di-n-octylphthalate	13.338	149	1305645	172.7432	ng	99
105)	Benzo[b]fluoranthene	13.750	252	1133633	158.2471	ng	98
106)	Benzo[k]fluoranthene	13.782	252	1064798m	155.7082	ng	
107)	Benzo[a]pyrene	14.092	252	1014048	166.0846	ng	93
108)	Indeno[1,2,3-cd]pyrene	15.390	276	1278702	166.5370	ng	87
109)	Dibenzo[a,h]anthracene	15.411	278	1045843	164.9772	ng	95
110)	Benzo[g,h,i]perylene	15.743	276	1002670	162.7747	ng	76

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
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Quant QT Reviewed
SampleID : CAL BNA@160PPM
Data File: 5M124259.D
Acq On : 06/21/23 13:28
Operator : AH/JB
Sam Mult : 1 Vial# : 5
Misc : A,BNA
Qt Meth : 5M_0621.M
Qt On : 06/21/23 14:12
Qt Upd On: 05/11/23 15:50
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
1,3-Dichlorobenzene,T
2-Chlorophenol,P
N-Decane,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@196PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124258.D Sam Mult : 1 Vial# : 4 Qt On : 06/21/23 13:35
Acq On : 06/21/23 13:04 Misc : A,BNA Qt Upd On: 05/11/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.355	96	50530	40.00	ng	-0.05
21) 1,4-Dichlorobenzene-d4	5.646	152	66615	40.00	ng	-0.03
31) Naphthalene-d8	6.655	136	228370	40.00	ng	-0.03
50) Acenaphthene-d10	8.060	164	128595	40.00	ng	-0.03
77) Phenanthrene-d10	9.503	188	237934	40.00	ng	-0.04
91) Chrysene-d12	12.548	240	226870	40.00	ng	-0.04
103) Perylene-d12	14.145	264	213673	40.00	ng	-0.04
System Monitoring Compounds						
11) 2-Fluorophenol	4.438	112	470426	210.73	ng	-0.04
Spiked Amount 100.000			Recovery = 210.73%			
16) Phenol-d5	5.347	99	569447	204.63	ng	-0.03
Spiked Amount 100.000			Recovery = 204.63%			
32) Nitrobenzene-d5	6.105	128	103115	106.57	ng	-0.02
Spiked Amount 50.000			Recovery = 213.14%			
55) 2-Fluorobiphenyl	7.484	172	490192	107.18	ng	-0.03
Spiked Amount 50.000			Recovery = 214.36%			
80) 2,4,6-Tribromophenol	8.792	330	139270	229.08	ng	-0.03
Spiked Amount 100.000			Recovery = 229.08%			
94) Terphenyl-d14	11.303	244	460185	107.31	ng	-0.04
Spiked Amount 50.000			Recovery = 214.62%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.387	88	267443m	188.2823	ng	
9) Pyridine	2.804	79	562592	203.3806	ng	65
10) N-Nitrosodimethylamine	2.756	74	427937	208.7845	ng	72
12) Benzaldehyde	5.272	77	394347	203.7855	ng	74
13) Aniline	5.368	93	648402	188.6749	ng	49
14) Pentachloroethane	5.405	117	173180	202.3847	ng	73
15) bis(2-Chloroethyl)ether	5.432	93	455217	189.0034	ng	78
17) Phenol	5.357	94	683011	198.0569	ng	90
18) 2-Chlorophenol	5.469	128	478368	196.3598	ng	78
19) N-Decane	5.507	57	495309m	190.7215	ng	
20) 1,3-Dichlorobenzene	5.598	146	541545m	196.2653	ng	
22) 1,4-Dichlorobenzene	5.662	146	548139	203.1111	ng	98
23) 1,2-Dichlorobenzene	5.785	146	524401	207.9779	ng	99
24) Benzyl alcohol	5.769	108	329305	217.8776	ng	68
25) bis(2-chloroisopropyl)...	5.875	45	535593	178.1361	ng	99
26) 2-Methylphenol	5.859	108	443418	214.9987	ng	96
27) Acetophenone	5.982	105	602025	212.7328	ng	63
28) Hexachloroethane	6.057	117	199230	208.2473	ng	88
29) N-Nitroso-di-n-propyla...	5.988	70	302870m	198.1883	ng	
30) 3&4-Methylphenol	5.988	108	441641	209.1985	ng	98
33) Nitrobenzene	6.121	77	459112	210.6677	ng	76
34) Isophorone	6.308	82	856159	215.8906	ng	86
35) 2-Nitrophenol	6.367	139	255011	230.1228	ng	80
36) 2,4-Dimethylphenol	6.399	107	448071	221.7494	ng	92
37) Benzoic Acid	6.511	105	334732	189.8513	ng	86
38) bis(2-Chloroethoxy)met...	6.474	93	532468	213.6942	ng	96
39) 2,4-Dichlorophenol	6.554	162	396227	223.5681	ng	85
40) 1,2,4-Trichlorobenzene	6.613	180	452237	217.6972	ng	97
41) Naphthalene	6.677	128	1316780	205.1899	ng	97
42) 4-Chloroaniline	6.714	127	387983	172.7540	ng	96
43) Hexachlorobutadiene	6.757	225	254376	220.8000	ng	96
44) Caprolactam	7.024	113	131182	230.9724	ng	67
45) 4-Chloro-3-methylphenol	7.077	107	376689	224.6081	ng	81
46) 2-Methylnaphthalene	7.200	142	887569	210.4635	ng	100
47) 1-Methylnaphthalene	7.275	142	822895	209.9588	ng	92
48) Methylnaphthalenes (To...	7.200	142	1709423m	418.8814	ng	
49) 1,1'-Biphenyl	7.569	154	1110211	216.9090	ng	93
51) 1,2,4,5-Tetrachloroben...	7.329	216	447800	222.1114	ng	98
52) Hexachlorocyclopentadiene	7.318	237	208919	222.9633	ng	99
53) 2,4,6-Trichlorophenol	7.419	196	292095m	226.4907	ng	
54) 2,4,5-Trichlorophenol	7.457	196	310108m	224.1862	ng	
56) 2-Chloronaphthalene	7.590	162	850118	214.5614	ng	91
57) 1,4-Dimethylnaphthalene	7.868	156	699743	218.2576	ng	86
58) Dimethylnaphthalenes (...	7.868	156	699743	218.2576	ng	86
59) Diphenyl Ether	7.649	170	592991	221.3183	ng	78
60) 2-Nitroaniline	7.676	65	264074	211.6813	ng	46
61) Coumarin	7.863	146	346247	224.6106	ng	91
62) Acenaphthylene	7.943	152	1189662	213.1693	ng	97
63) Dimethylphthalate	7.825	163	920097	212.8617	ng	98
64) 2,6-Dinitrotoluene	7.879	165	208206	213.3187	ng	56
65) Acenaphthene	8.093	153	832831	208.9759	ng	98

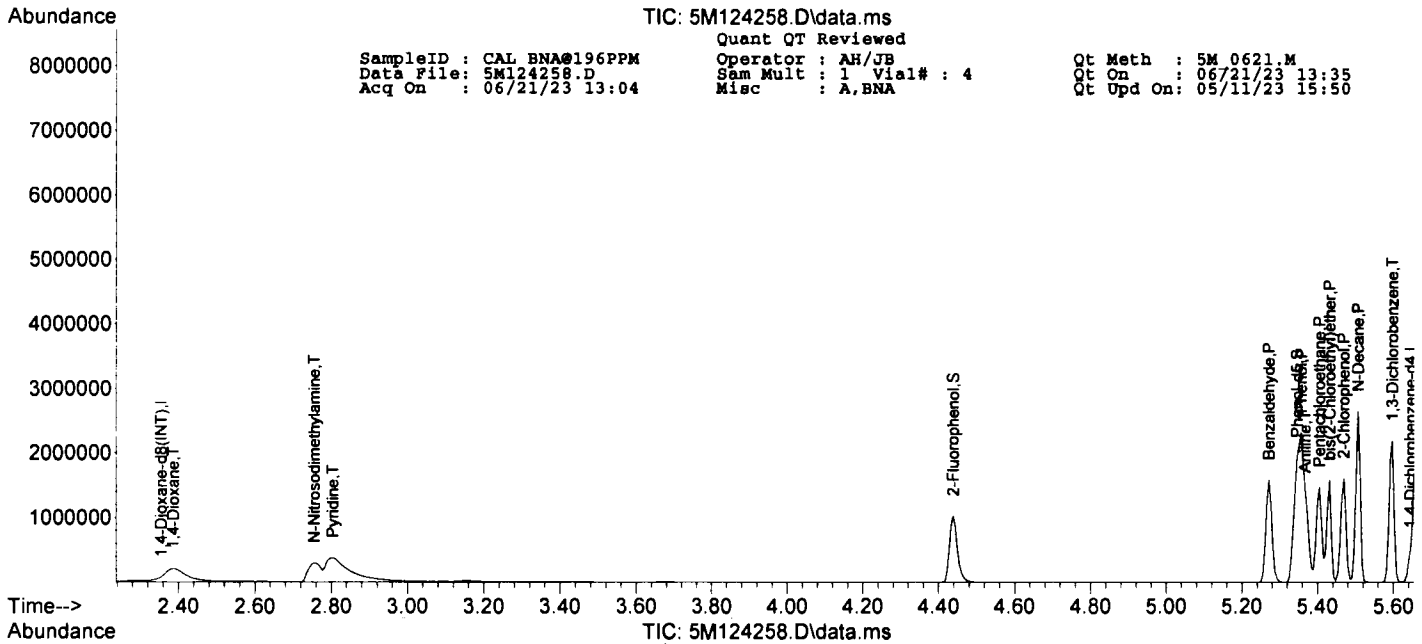
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@196PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124258.D Sam Mult : 1 Vial# : 4 Qt On : 06/21/23 13:35
Acq On : 06/21/23 13:04 Misc : A,BNA Qt Upd On: 05/11/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.028	138	189691	189.0072	ng	71
67)	2,4-Dinitrophenol	8.114	184	120392	189.0158	ng	35
68)	Dibenzofuran	8.247	168	1175946	208.2368	ng	83
69)	2,4-Dinitrotoluene	8.231	165	284788	227.7783	ng	62
70)	4-Nitrophenol	8.162	65	159330	184.7064	ng	86
71)	2,3,4,6-Tetrachlorophenol	8.354	232	258927	233.5719	ng	82
72)	Fluorene	8.563	166	995184	219.1350	ng	98
73)	4-Chlorophenyl-phenyle...	8.552	204	504779	228.3445	ng	80
74)	Diethylphthalate	8.440	149	904529	220.8289	ng	96
75)	4-Nitroaniline	8.595	138	235496	212.1283	ng	72
76)	Atrazine	9.204	200	266885	225.4530	ng	94
78)	4,6-Dinitro-2-methylph...	8.611	198	162383	185.5328	ng	71
79)	n-Nitrosodiphenylamine	8.669	169	820329	213.1670	ng	98
81)	1,2-Diphenylhydrazine	8.707	77	983058	215.4946	ng	83
82)	4-Bromophenyl-phenylether	9.038	248	291647	216.6712	ng	76
83)	Hexachlorobenzene	9.097	284	304769	213.3283	ng	66
84)	N-Octadecane	9.364	57	441828	208.8835	ng	68
85)	Pentachlorophenol	9.300	266	195264	193.8141	ng	96
86)	Phenanthrene	9.535	178	1400654	205.8361	ng	99
87)	Anthracene	9.588	178	1431468	209.6892	ng	97
88)	Carbazole	9.759	167	1332020	212.0362	ng	97
89)	Di-n-butylphthalate	10.139	149	1608102	229.2723	ng	97
90)	Fluoranthene	10.854	202	1557412	209.7909	ng	94
92)	Pyrene	11.116	202	1634903	211.1384	ng	92
93)	Benzidine	11.015	184	639674	171.5144	ng	87
95)	4,4'-DDE	11.239	246	364444	224.0197	ng	96
96)	4,4'-DDD	11.634	235	647935	224.2709	ng	97
97)	Butylbenzylphthalate	11.896	149	702161	223.3288	ng	71
98)	4,4'-DDT	11.992	235	531668	230.7994	ng	98
99)	3,3'-Dichlorobenzidine	12.516	252	447685	188.9628	ng	96
100)	Benzo[a]anthracene	12.537	228	1560501	208.3030	ng	97
101)	Chrysene	12.585	228	1456019	212.4045	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.591	149	990318	225.1200	ng	91
104)	Di-n-octylphthalate	13.339	149	1710787	229.1346	ng	99
105)	Benzo[b]fluoranthene	13.750	252	1554515m	219.6732	ng	
106)	Benzo[k]fluoranthene	13.782	252	1446372m	214.1130	ng	
107)	Benzo[a]pyrene	14.092	252	1335950	221.5032	ng	94
108)	Indeno[1,2,3-cd]pyrene	15.395	276	1705613	224.8748	ng	87
109)	Dibenzo[a,h]anthracene	15.417	278	1407506	224.7640	ng	94
110)	Benzo[g,h,i]perylene	15.748	276	1304888	214.4475	ng	77

(#) = qualifier out of range (m) = manual integration (+) = signals summed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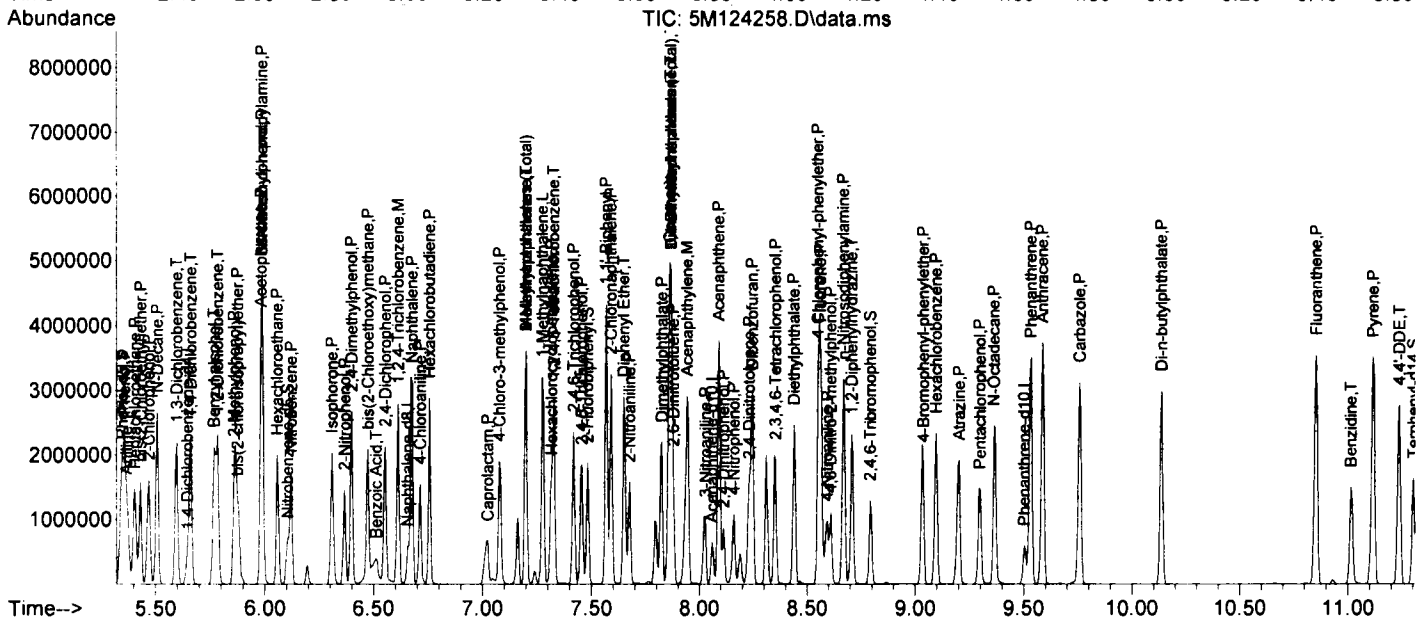
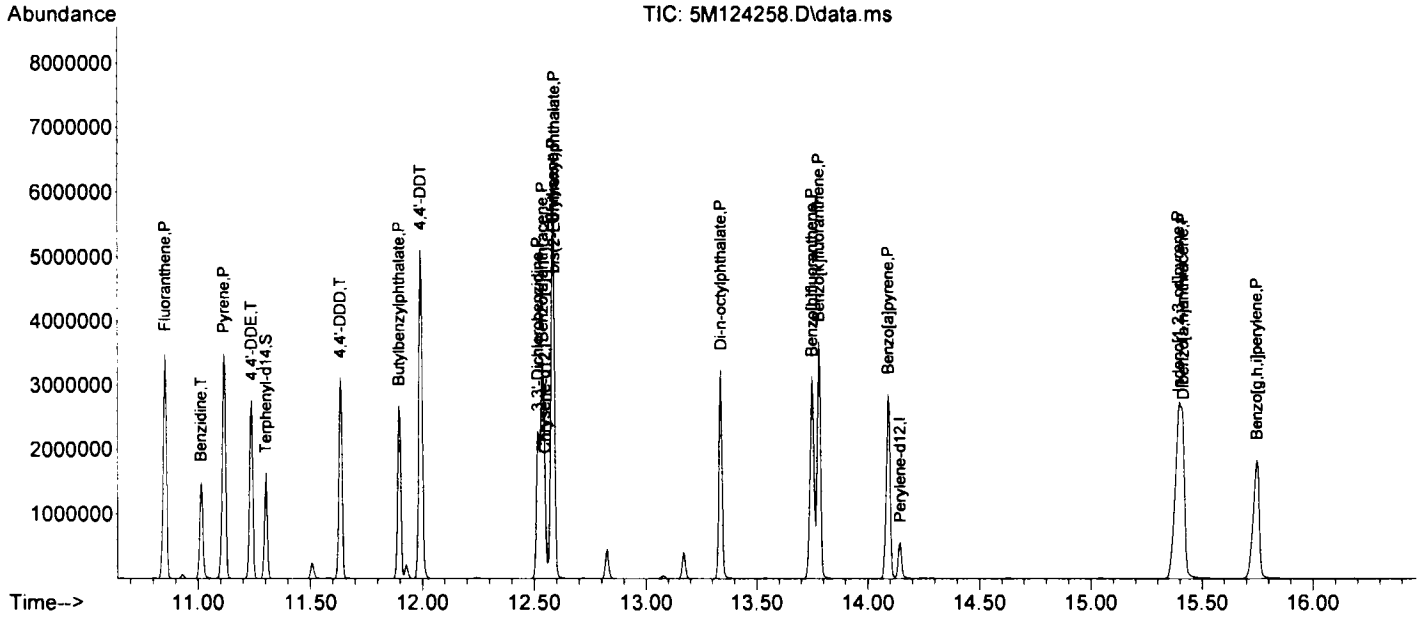
SampleID : CAL BNA@196PPM
Data File: 5M124258.D
Acq On : 06/21/23 13:04
Operator : AH/JB
Sam Mult : 1 Vial# : 4
Misc : A,BNA
Qt Meth : 5M_0621.M
Qt On : 06/21/23 13:35
Qt Upd On: 05/11/23 15:50
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
N-Decane,P
1,3-Dichlorobenzene,T
Time-->


Abundance
TIC: 5M124258.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
2-Nitrophenol,P
Benzoic Acid,T
Naphthalene,P
Hexachlorobutadiene,P
Acenaphthylene,M
Acenaphthene,P
Diethylphthalate,P
2,3,4,6-Tetrachlorophenol,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Time-->


Abundance
TIC: 5M124258.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@0.5PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124263.D Sam Mult : 1 Vial# : 9 Qt On : 06/21/23 15:37
Acq On : 06/21/23 15:03 Misc : A,BNA Qt Upd On: 05/11/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.355	96	50767	40.00	ng	-0.05
21) 1,4-Dichlorobenzene-d4	5.640	152	75450	40.00	ng	-0.03
31) Naphthalene-d8	6.650	136	262081	40.00	ng	-0.03
50) Acenaphthene-d10	8.055	164	147339	40.00	ng	-0.04
77) Phenanthrene-d10	9.497	188	260497	40.00	ng	-0.04
91) Chrysene-d12	12.537	240	236420	40.00	ng	-0.05
103) Perylene-d12	14.140	264	228305	40.00	ng	-0.05
System Monitoring Compounds						
11) 2-Fluorophenol	0.000	112	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
16) Phenol-d5	0.000	99	0d	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
32) Nitrobenzene-d5	0.000	128	0	0.00	ng	
Spiked Amount 50.000			Recovery =	0.00%		
55) 2-Fluorobiphenyl	0.000	172	0d	0.00	ng	
Spiked Amount 50.000			Recovery =	0.00%		
80) 2,4,6-Tribromophenol	0.000	330	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
94) Terphenyl-d14	0.000	244	0d	0.00	ng	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
8) 1,4-Dioxane	2.387	88	612m	0.4288	ng	
9) Pyridine	0.000		0	N.D. d		
10) N-Nitrosodimethylamine	0.000		0	N.D. d		
12) Benzaldehyde	0.000		0	N.D. d		
13) Aniline	5.363	93	1694m	0.4906	ng	
14) Pentachloroethane	0.000		0	N.D. d		
15) bis(2-Chloroethyl)ether	5.421	93	1515	0.6261	ng	80
17) Phenol	0.000		0	N.D. d		
18) 2-Chlorophenol	0.000		0	N.D. d		
19) N-Decane	0.000		0	N.D. d		
20) 1,3-Dichlorobenzene	0.000		0	N.D.		
22) 1,4-Dichlorobenzene	0.000		0	N.D. d		
23) 1,2-Dichlorobenzene	0.000		0	N.D. d		
24) Benzyl alcohol	0.000		0	N.D. d		
25) bis(2-chloroisopropyl)...	0.000		0	N.D. d		
26) 2-Methylphenol	5.859	108	1130	0.4837	ng	89
27) Acetophenone	0.000		0	N.D. d		
28) Hexachloroethane	0.000		0	N.D. d		
29) N-Nitroso-di-n-propyla...	5.972	70	947	0.5471	ng	72
30) 3&4-Methylphenol	5.982	108	1111	0.4646	ng	87
33) Nitrobenzene	0.000		0	N.D. d		
34) Isophorone	0.000		0	N.D. d		
35) 2-Nitrophenol	0.000		0	N.D. d		
36) 2,4-Dimethylphenol	6.394	107	1176m	0.5071	ng	
37) Benzoic Acid	0.000		0	N.D.		
38) bis(2-Chloroethoxy)met...	0.000		0	N.D. d		
39) 2,4-Dichlorophenol	6.549	162	987	0.4853	ng	80
40) 1,2,4-Trichlorobenzene	0.000		0	N.D. d		
41) Naphthalene	6.666	128	4624	0.6279	ng	97
42) 4-Chloroaniline	6.709	127	1241	0.4815	ng	92
43) Hexachlorobutadiene	0.000		0	N.D. d		
44) Caprolactam	0.000		0	N.D.		
45) 4-Chloro-3-methylphenol	0.000		0	N.D. d		
46) 2-Methylnaphthalene	0.000		0	N.D. d		
47) 1-Methylnaphthalene	0.000		0	N.D. d		
48) Methylnaphthalenes (To...	0.000		0	N.D. d		
49) 1,1'-Biphenyl	0.000		0	N.D. d		
51) 1,2,4,5-Tetrachloroben...	0.000		0	N.D. d		
52) Hexachlorocyclopentadiene	0.000		0	N.D.		
53) 2,4,6-Trichlorophenol	0.000		0	N.D. d		
54) 2,4,5-Trichlorophenol	0.000		0	N.D. d		
56) 2-Chloronaphthalene	0.000		0	N.D. d		
57) 1,4-Dimethylnaphthalene	0.000		0	N.D. d		
58) Dimethylnaphthalenes (...	0.000		0	N.D. d		
59) Diphenyl Ether	0.000		0	N.D. d		
60) 2-Nitroaniline	0.000		0	N.D.		
61) Coumarin	0.000		0	N.D. d		
62) Acenaphthylene	0.000		0	N.D. d		
63) Dimethylphthalate	0.000		0	N.D. d		
64) 2,6-Dinitrotoluene	0.000		0	N.D. d		
65) Acenaphthene	0.000		0	N.D. d		

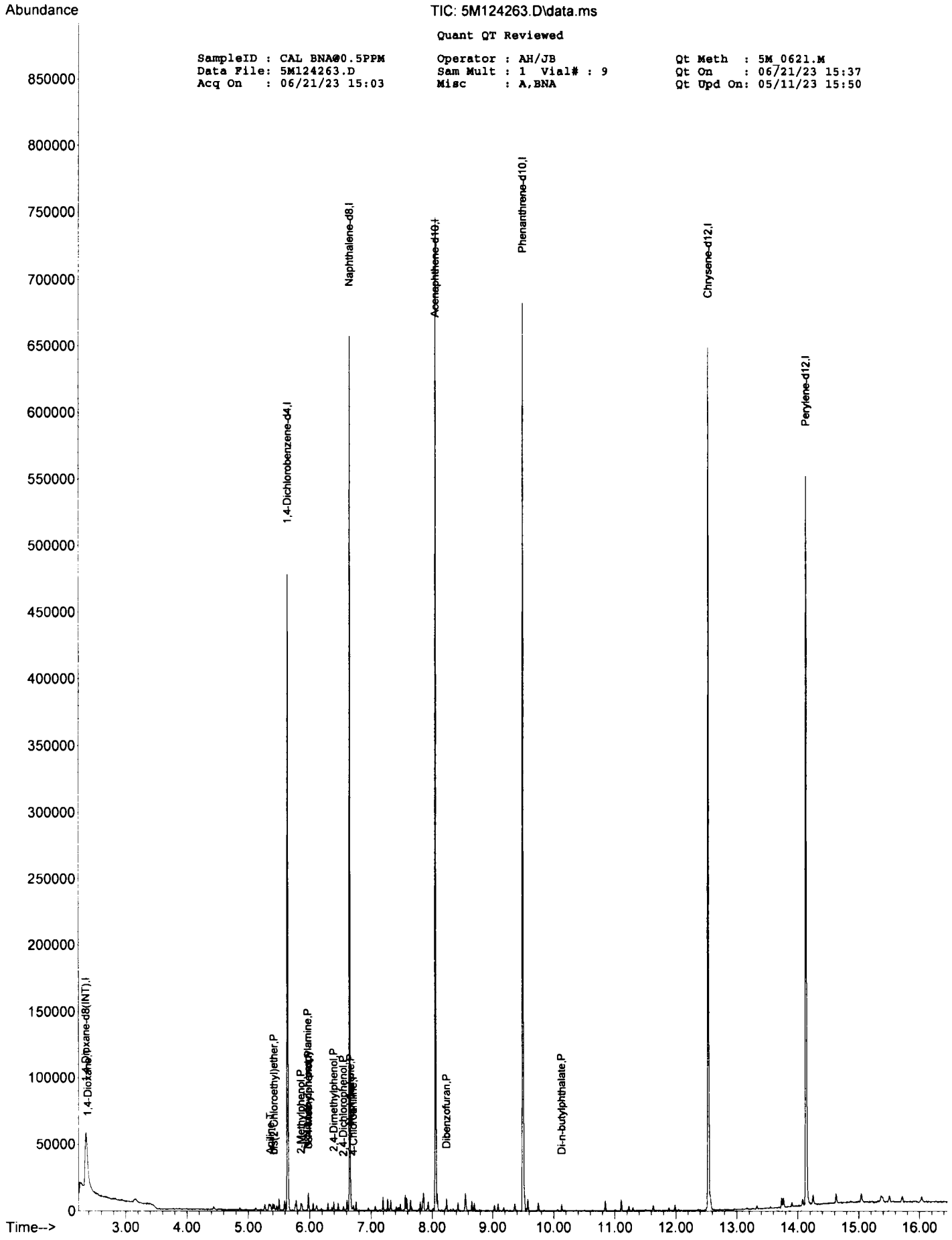
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@0.5PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124263.D Sam Mult : 1 Vial# : 9 Qt On : 06/21/23 15:37
Acq On : 06/21/23 15:03 Misc : A,BNA Qt Upd On: 05/11/23 15:50

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	0.000		0	N.D.		
67)	2,4-Dinitrophenol	0.000		0	N.D.		
68)	Dibenzofuran	8.237	168	3965	0.6128	ng	81
69)	2,4-Dinitrotoluene	0.000		0	N.D. d		
70)	4-Nitrophenol	0.000		0	N.D. d		
71)	2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
72)	Fluorene	0.000		0	N.D. d		
73)	4-Chlorophenyl-phenyle...	0.000		0	N.D. d		
74)	Diethylphthalate	0.000		0	N.D. d		
75)	4-Nitroaniline	0.000		0	N.D.		
76)	Atrazine	0.000		0	N.D. d		
78)	4,6-Dinitro-2-methylph...	0.000		0	N.D.		
79)	n-Nitrosodiphenylamine	0.000		0	N.D. d		
81)	1,2-Diphenylhydrazine	0.000		0	N.D. d		
82)	4-Bromophenyl-phenylether	0.000		0	N.D. d		
83)	Hexachlorobenzene	0.000		0	N.D. d		
84)	N-Octadecane	0.000		0	N.D. d		
85)	Pentachlorophenol	0.000		0	N.D.		
86)	Phenanthrene	0.000		0	N.D. d		
87)	Anthracene	0.000		0	N.D. d		
88)	Carbazole	0.000		0	N.D. d		
89)	Di-n-butylphthalate	10.133	149	2865	0.3731	ng	98
90)	Fluoranthene	0.000		0	N.D. d		
92)	Pyrene	0.000		0	N.D. d		
93)	Benzidine	0.000		0	N.D. d		
95)	4,4'-DDE	0.000		0	N.D. d		
96)	4,4'-DDD	0.000		0	N.D. d		
97)	Butylbenzylphthalate	0.000		0	N.D. d		
98)	4,4'-DDT	0.000		0	N.D. d		
99)	3,3'-Dichlorobenzidine	0.000		0	N.D. d		
100)	Benzo[a]anthracene	0.000		0	N.D. d		
101)	Chrysene	0.000		0	N.D. d		
102)	bis(2-Ethylhexyl)phtha...	0.000		0	N.D. d		
104)	Di-n-octylphthalate	0.000		0	N.D. d		
105)	Benzo[b]fluoranthene	0.000		0	N.D. d		
106)	Benzo[k]fluoranthene	0.000		0	N.D. d		
107)	Benzo[a]pyrene	0.000		0	N.D. d		
108)	Indeno[1,2,3-cd]pyrene	0.000		0	N.D. d		
109)	Dibenzo[a,h]anthracene	0.000		0	N.D. d		
110)	Benzo[g,h,i]perylene	0.000		0	N.D. d		

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M124263.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@0.5PPM
Data File: 5M124263.D
Acq On : 06/21/23 15:03
Operator : AH/JB
Sam Mult : 1 Vial# : 9
Misc : A,BNA
Qt Meth : 5M_0621.M
Qt On : 06/21/23 15:37
Qt Upd On: 05/11/23 15:50
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Chrysene-d12,I
Perylene-d12,I
Dibenzofuran,P
Di-n-butylphthalate,P
Time-->

3062404 0296

Form 6
Initial Calibration

Method: EPA8270E SIM

Instrument: GCMS_12Sm

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	12M67048.D	CAL SIM@5PPM	05/18/23 12:53	2	12M67041.D	CAL SIM@0.02PPM	05/18/23 10:22
3	12M67042.D	CAL SIM@0.1PPM	05/18/23 10:43	4	12M67043.D	CAL SIM@0.2PPM	05/18/23 11:05
5	12M67044.D	CAL SIM@0.5PPM	05/18/23 11:27	6	12M67045.D	CAL SIM@1PPM	05/18/23 11:49
7	12M67046.D	CAL SIM@10PPM	05/18/23 12:10	8	12M67047.D	CAL SIM@19.6PPM	05/18/23 12:32

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Avg	0.9932	-----	1.0911	0.9841	0.9862	0.9758	0.9463	0.8706	-----	0.978	2.57	0.998	1.00	6.7		5.00		0.10	0.20	0.50	1.00	10.00	19.60	
N-Nitrosodimethylamin	1	0	Avg	1.1384	-----	-----	0.9990	1.0841	0.8481	1.1286	1.0044	-----	1.03	2.97	0.995	1.00	11	0.01	5.00			0.20	0.50	1.00	10.00	19.60	
bis(2-Chloroethyl)ether	1	0	Avg	1.2589	1.1645	1.3498	1.3118	1.5071	1.4079	1.1382	0.9514	-----	1.26	5.56	0.983	1.00	14		5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
2-Methylphenol	1	0	Avg	1.1142	0.8332	0.8423	0.8047	0.9103	0.9334	1.0890	0.9767	-----	0.938	5.98	0.996	1.00	12		5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Hexachloroethane	1	0	Avg	0.4751	0.4664	0.4761	0.4463	0.4442	0.4366	0.4591	0.4235	-----	0.453	6.19	0.998	1.00	4.2	0.30	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
3&4-Methylphenol	1	0	Avg	1.1361	0.8429	0.8630	0.8650	0.9106	0.9497	1.1050	1.0073	-----	0.960	6.10	0.997	1.00	12		5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Nitrobenzene-d5	1	0	Avg	0.2382	0.1990	0.2243	0.2159	0.2396	0.2140	0.2121	0.1754	-----	0.215	6.22	0.987	1.00	9.7		25.00	0.10	0.50	1.00	2.50	5.00	50.00	98.00	
2,4-Dimethylphenol	1	0	Avg	0.2415	0.1959	0.1798	0.1800	0.1993	0.1959	0.2291	0.2082	-----	0.204	6.52	0.997	1.00	11		5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Naphthalene	1	0	Avg	0.9706	1.0366	1.0609	1.0226	1.0985	0.9991	0.9071	0.7907	-----	0.986	6.80	0.994	1.00	9.9	0.70	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Hexachlorobutadiene	1	0	Avg	0.1821	0.2045	0.2047	0.2034	0.2031	0.1806	0.1814	0.1632	-----	0.190	6.89	0.997	1.00	8.2	0.01	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Hexachlorocyclopenta	1	0	Qua	0.2093	-----	-----	0.1169	0.1638	0.1561	0.2368	0.2447	-----	0.188	7.46	0.999	1.00	27		5.00			0.20	0.50	1.00	10.00	19.60	
2,4,5-Trichlorophenol	1	0	Qua	0.3172	0.1904	0.1926	0.2026	0.2150	0.2511	0.3208	0.2934	-----	0.248	7.58	0.998	1.00	22		5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
2-Fluorobiphenyl	1	0	Qua	0.8475	1.1409	1.1839	1.1350	1.1545	1.0744	0.7734	0.6079	-----	0.990	7.62	0.981	1.00	22		25.00	0.10	0.50	1.00	2.50	5.00	50.00	98.00	
Acenaphthylene	1	0	Avg	1.6707	1.3958	1.4693	1.3814	1.4468	1.4365	1.7316	1.5021	-----	1.50	8.08	0.995	0.999	8.5	0.90	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Acenaphthene	1	0	Avg	1.0032	1.1073	1.1166	1.0713	1.1004	1.0558	1.0238	0.8779	-----	1.04	8.23	0.994	0.999	7.5	0.90 a	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Dibenzofuran	1	0	Avg	1.3096	1.6890	1.7076	1.6286	1.6381	1.5452	1.2890	1.1103	-----	1.49	8.39	0.994	1.00	15		5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Fluorene	1	0	Avg	0.9899	0.8695	0.9114	0.8807	0.9391	0.9054	1.0069	0.8761	-----	0.922	8.71	0.995	1.00	5.7	0.90 a	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
4,6-Dinitro-2-methylph	1	0	Qua	0.0665	-----	-----	0.0316	0.0276	0.0327	0.0829	0.0943	-----	0.0560	8.75	0.994	0.999	52	0.01	5.00			0.20	0.50	1.00	10.00	19.60	
1,2-Diphenylhydrazine	1	0	Avg	0.4731	0.3112	0.3198	0.3267	0.3778	0.4124	0.4786	0.4333	-----	0.392	8.84	0.997	1.00	17		5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Hexachlorobenzene	1	0	Avg	0.1869	0.2012	0.1981	0.1880	0.1923	0.1865	0.1860	0.1668	-----	0.188	9.25	0.997	1.00	5.5	0.10	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Pentachlorophenol	1	0	Qua	0.0906	-----	-----	0.0316	0.0413	0.0474	0.1082	0.1122	-----	0.0719	9.45	0.998	0.999	50	0.05 a	5.00			0.20	0.50	1.00	10.00	19.60	
Phenanthrene	1	0	Avg	1.0007	1.0944	1.1053	1.0332	1.0658	1.0304	0.9479	0.7940	-----	1.01	9.68	0.990	1.00	10	0.70	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Anthracene	1	0	Avg	0.9044	0.8078	0.8231	0.7666	0.8590	0.8600	0.8730	0.7614	-----	0.832	9.74	0.994	1.00	6.2	0.70	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Carbazole	1	0	Avg	0.7682	0.6841	0.6568	0.6411	0.6820	0.7122	0.7216	0.6367	-----	0.688	9.91	0.995	1.00	6.5	0.01	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Fluoranthene	1	0	Avg	1.0717	0.9476	0.9365	0.9438	0.9695	0.9682	1.0689	0.9134	-----	0.977	11.02	0.993	1.00	6.1	0.60	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Pyrene	1	0	Avg	2.2512	2.5982	2.4196	2.2894	2.2672	2.1998	2.3199	2.1176	-----	2.31	11.28	0.998	0.999	6.3	0.60	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Terphenyl-d14	1	0	Qua	0.9489	1.2935	1.4231	1.3673	1.3416	1.2069	0.8877	0.7728	-----	1.16	11.47	0.994	1.00	22		25.00	0.10	0.50	1.00	2.50	5.00	50.00	98.00	
Benzo[a]anthracene	1	0	Avg	1.3677	1.1889	1.1160	1.0414	1.0459	1.0724	1.5125	1.4551	-----	1.23	12.70	0.999	0.999	16	0.80	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Chrysene	1	0	Avg	1.3879	1.7996	1.6625	1.6028	1.6022	1.4905	1.3987	1.2516	-----	1.52	12.74	0.997	1.00	12	0.70	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Benzo[b]fluoranthene	1	0	Avg	1.7909	1.6858	1.7330	1.6741	1.6011	1.6100	1.7780	1.4474	-----	1.67	13.92	0.990	0.998	6.7	0.70	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Benzo[k]fluoranthene	1	0	Avg	1.8309	1.9055	1.8273	1.6429	1.9955	1.9813	1.7439	1.4183	-----	1.79	13.95	0.987	1.00	11	0.70	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Benzo[a]pyrene	1	0	Avg	1.6857	1.2190	1.2289	1.2329	1.2416	1.3169	1.7099	1.4555	-----	1.39	14.27	0.993	0.999	15	0.70	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.8812	1.6296	1.4712	1.4071	1.5309	1.5802	1.9099	1.6248	-----	1.63	15.62	0.993	0.999	11	0.50	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Dibenzo[a,h]anthracen	1	0	Avg	1.4636	1.3508	1.1907	1.1396	1.3709	1.3743	1.4330	1.2018	-----	1.32	15.64	0.991	1.00	9.2	0.40	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	
Benzo[g,h,i]perylene	1	0	Avg	1.5752	1.7303	1.4938	1.3695	1.4801	1.4963	1.5763	1.3450	-----	1.51	15.98	0.993	1.00	8.1	0.50	5.00	0.02	0.10	0.20	0.50	1.00	10.00	19.60	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 13.58

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

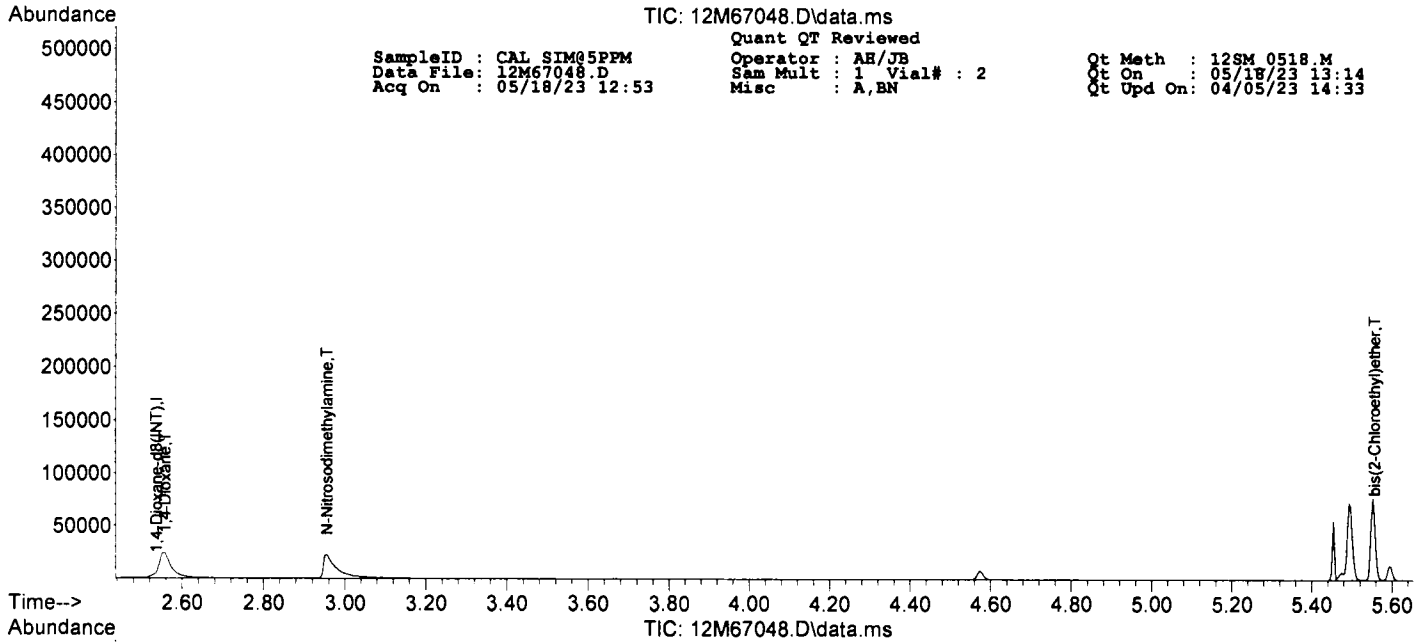
Quantitation Report (QT Reviewed)

SampleID : CAL SIM@5PPM Operator : AH/JB Qt Meth : 12SM_0518.M
Data File: 12M67048.D Sam Mult : 1 Vial# : 2 Qt On : 05/18/23 13:14
Acq On : 05/18/23 12:53 Misc : A,BN Qt Upd On: 04/05/23 14:33

Data Path : G:\GcMsData\2023\GCMS_12SM\Data\05-18-23\
Qt Path : G:\GCMSDATA\2023\GCMS_12SM\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.534	96	22506	0.40	ng	-0.02
3) 1,4-Dichlorobenzene-d4	5.779	152	22307	0.40	ng	-0.02
9) Naphthalene-d8	6.788	136	98083	0.40	ng	-0.02
14) Acenaphthene-d10	8.209	164	54961	0.40	ng	-0.02
22) Phenanthrene-d10	9.664	188	99688	0.40	ng	-0.02
31) Chrysene-d12	12.718	240	48909m	0.40	ng	-0.02
36) Perylene-d12	14.338	264	34149	0.40	ng	-0.03
System Monitoring Compounds						
10) Nitrobenzene-d5	6.223	82	1460460	29.36	ng	-0.02
Spiked Amount 50.000			Recovery = 58.72%			
17) 2-Fluorobiphenyl	7.620	172	2911363	27.60	ng	-0.02
Spiked Amount 50.000			Recovery = 55.20%			
33) Terphenyl-d14	11.468	244	2900908	25.72	ng	-0.03
Spiked Amount 50.000			Recovery = 51.44%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.559	88	279423	5.2817	ng	91
4) N-Nitrosodimethylamine	2.958	74	317444	5.2523	ng	92
5) bis(2-Chloroethyl)ether	5.555	93	351033	4.8285	ng	86
6) 2-Methylphenol	5.977	108	310697m	5.5507	ng	
7) Hexachloroethane	6.194	201	132482	5.0764	ng	68
8) 3&4-Methylphenol	6.103	108	316797m	5.4372	ng	
11) 2,4-Dimethylphenol	6.520	107	296190	6.1099	ng	48
12) Naphthalene	6.801	128	1190014	4.8063	ng	87
13) Hexachlorobutadiene	6.894	225	223314	4.8730	ng	59
15) Hexachlorocyclopentadiene	7.456	237	143825	5.1974	ng	94
16) 2,4,5-Trichlorophenol	7.584	196	217979	5.9183	ng	92
18) Acenaphthylene	8.079	152	1147809	5.2062	ng	93
19) Acenaphthene	8.234	153	689219	4.7276	ng	97
20) Dibenzofuran	8.392	168	899755	4.2149	ng	95
21) Fluorene	8.708	166	680101	5.1794	ng	88
23) 4,6-Dinitro-2-methylph...	8.749	198	82880	4.6432	ng	83
24) 1,2-Diphenylhydrazine	8.841	77	589577m	5.7822	ng	
25) Hexachlorobenzene	9.255	284	232992	4.7426	ng	93
26) Pentachlorophenol	9.453	266	112971	4.5967	ng	91
27) Phenanthrene	9.685	178	1247027	4.7765	ng	96
28) Anthracene	9.738	178	1126996	5.1081	ng	93
29) Carbazole	9.914	167	957256	5.2707	ng	97
30) Fluoranthene	11.017	202	1335452	5.3556	ng	92
32) Pyrene	11.282	202	1376333	4.6544	ng	93
34) Benzo[a]anthracene	12.699	228	836180m	5.2024	ng	
35) Chrysene	12.744	228	848544	4.3893	ng	99
37) Benzo[b]fluoranthene	13.924	252	764469	5.7765	ng	90
38) Benzo[k]fluoranthene	13.953	252	781530	5.0204	ng	96
39) Benzo[a]pyrene	14.273	252	719552	5.8503	ng	90
40) Indeno[1,2,3-cd]pyrene	15.621	276	803004	5.4294	ng	98
41) Dibenzo[a,h]anthracene	15.644	278	624775	5.3974	ng	98
42) Benzo[g,h,i]perylene	15.985	276	672393	5.1329	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
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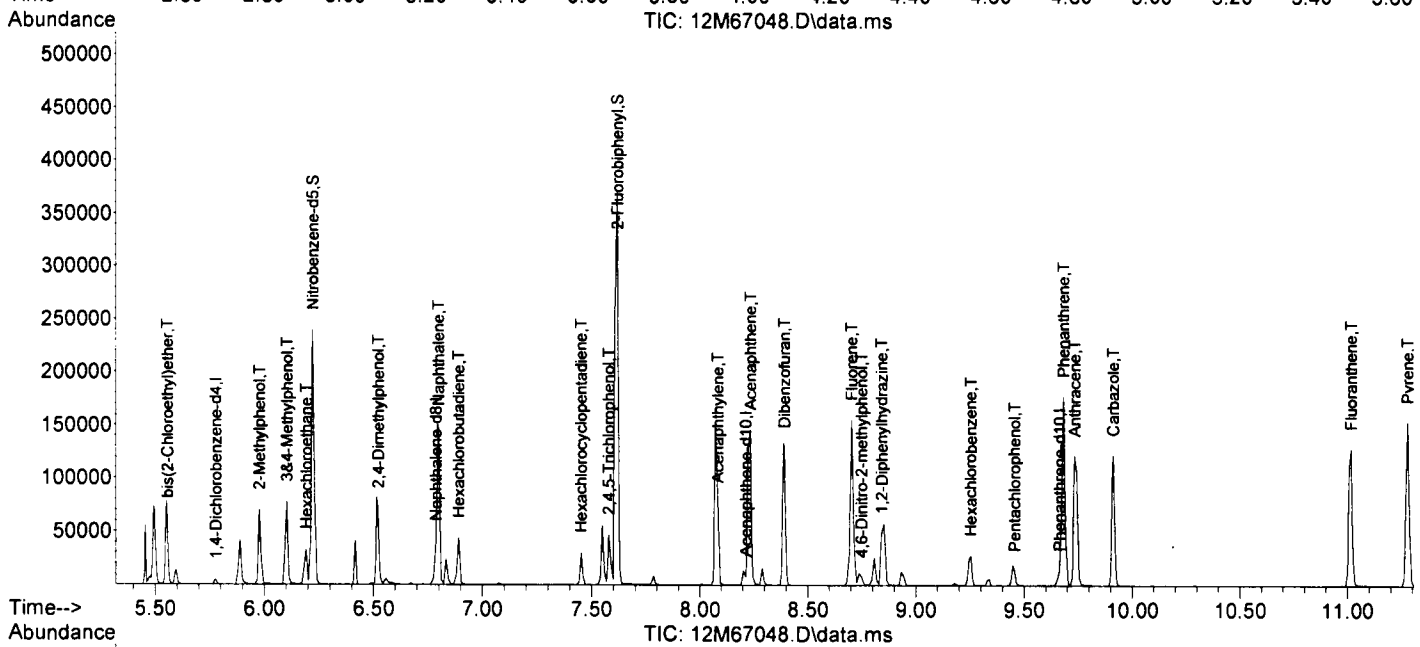
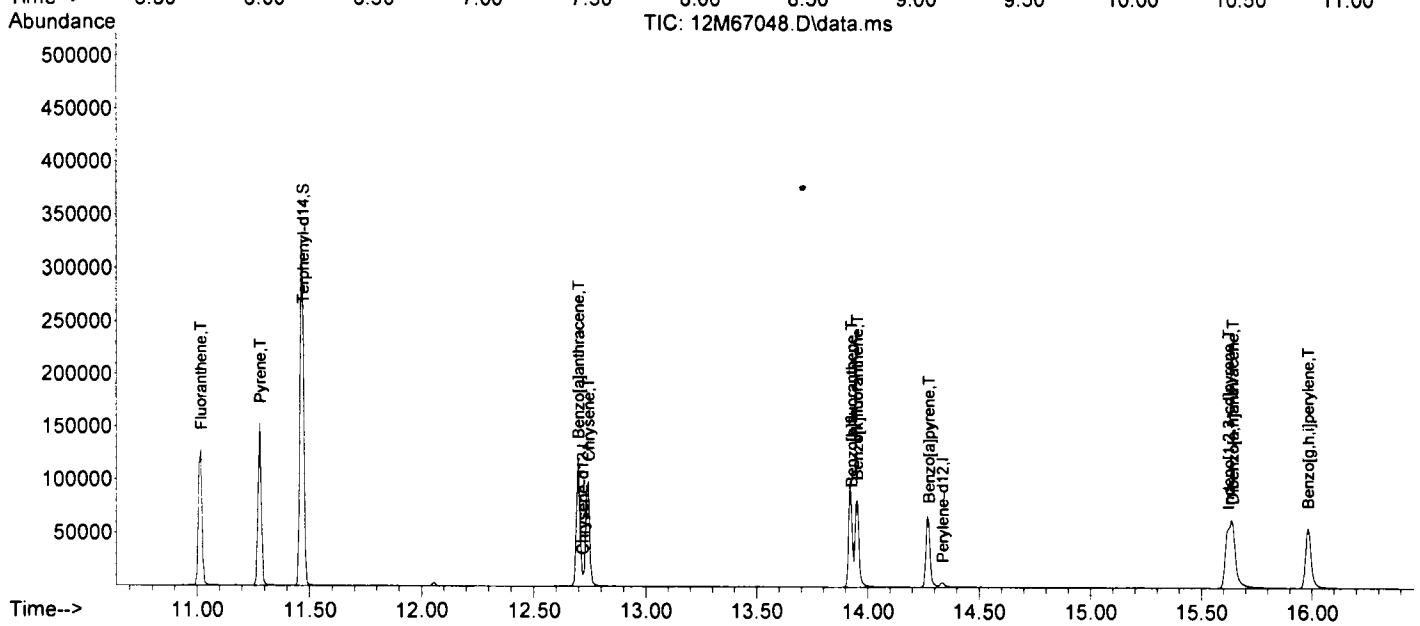
Quant QT Reviewed
SampleID : CAL SIM@5PPM
Data File: 12M67048.D
Acq On : 05/18/23 12:53
Operator : AE/JB
Sam Mult : 1 Vial# : 2
Misc : A,BN
Qt Meth : 12SM_0518.M
Qt On : 05/18/23 13:14
Qt Upd On: 04/05/23 14:33
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
Time-->


Abundance
TIC: 12M67048.D\data.ms
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Hexachloroethane,T
Nitrobenzene-d5,S
2,4-Dimethylphenol,T
Naphthalene-d8,I
Naphthalene,T
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2,4,5-Trichlorophenol,T
2-Fluorobiphenyl,S
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
Fluorene,T
4,6-Dinitro-2-methylphenol,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Phenanthrene-d10,I
Phenanthrene,T
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Time-->


Abundance
TIC: 12M67048.D\data.ms
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Benzo[a]anthracene,T
Chrysene,T
Benzo[b]fluoranthene,T
Benzo[k]fluoranthene,T
Benzo[a]pyrene,T
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,T
Dibenz[a,h]anthracene,T
Benzo[g,h,i]perylene,T
Time-->

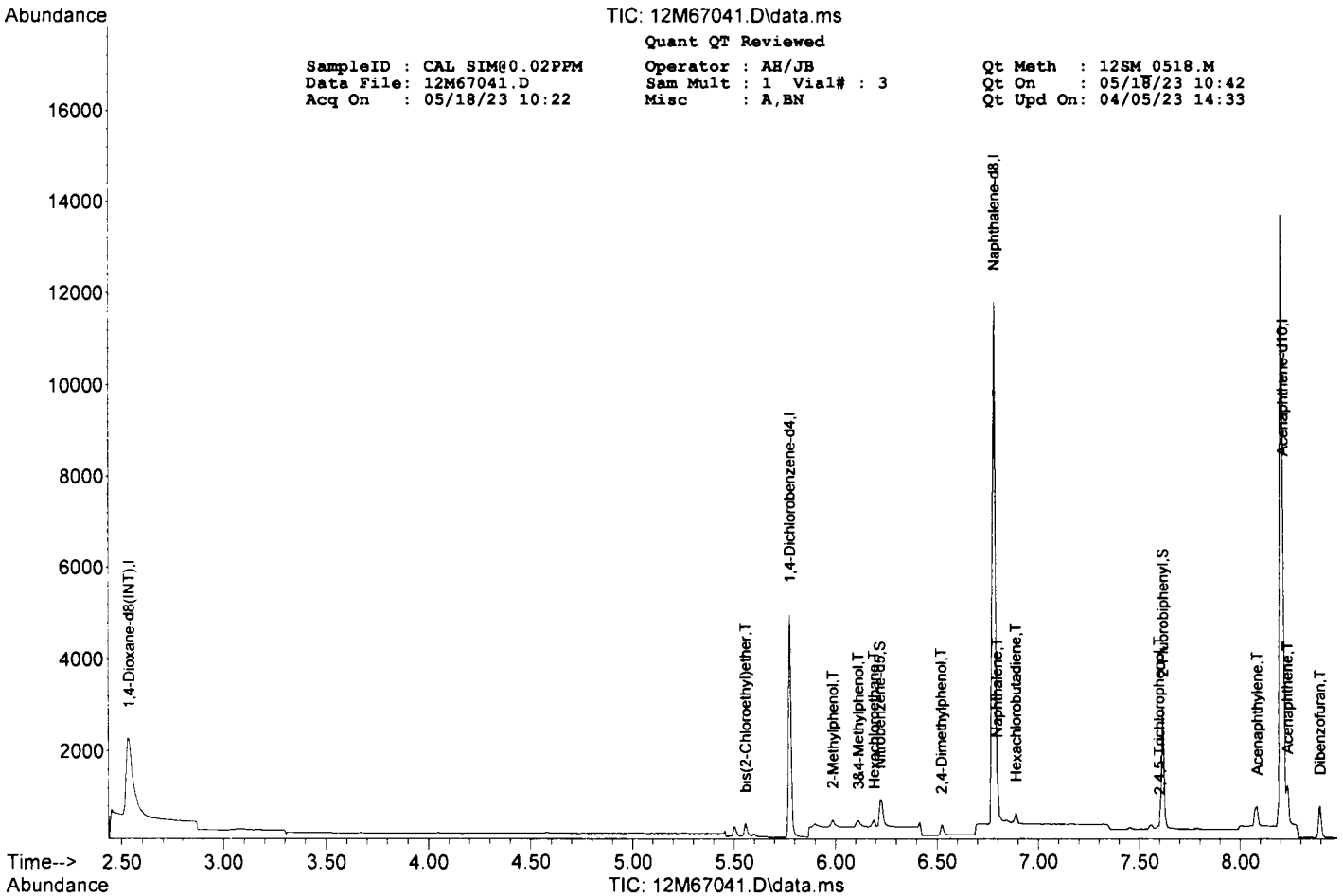
Quantitation Report (QT Reviewed)

SampleID : CAL SIM@0.02PPM Operator : AH/JB Qt Meth : 12SM_0518.M
Data File: 12M67041.D Sam Mult : 1 Vial# : 3 Qt On : 05/18/23 10:42
Acq On : 05/18/23 10:22 Misc : A,BN Qt Upd On: 04/05/23 14:33

Data Path : G:\GcMsData\2023\GCMS_12SM\Data\05-18-23\
Qt Path : G:\GCMSDATA\2023\GCMS_12SM\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	Qvalue
Internal Standards							
1) 1,4-Dioxane-d8(INT)	2.537	96	23681m	0.40	ng	-0.02	
3) 1,4-Dichlorobenzene-d4	5.777	152	27499m	0.40	ng	-0.02	
9) Naphthalene-d8	6.789	136	113251	0.40	ng	-0.02	
14) Acenaphthene-d10	8.210	164	60150	0.40	ng	-0.02	
22) Phenanthrene-d10	9.665	188	106948	0.40	ng	-0.02	
31) Chrysene-d12	12.718	240	44104m	0.40	ng	-0.02	
36) Perylene-d12	14.341	264	32051	0.40	ng	-0.03	
System Monitoring Compounds							
10) Nitrobenzene-d5	6.225	82	5635	0.10	ng	-0.02	
Spiked Amount 50.000			Recovery =	0.20%			
17) 2-Fluorobiphenyl	7.621	172	17158	0.14	ng	-0.02	
Spiked Amount 50.000			Recovery =	0.28%			
33) Terphenyl-d14	11.474	244	14263	0.14	ng	-0.02	
Spiked Amount 50.000			Recovery =	0.28%			
Target Compounds							Qvalue
2) 1,4-Dioxane	0.000		0	N.D.			
4) N-Nitrosodimethylamine	0.000		0	N.D.			
5) bis(2-Chloroethyl)ether	5.556	93	1601m	0.0179	ng		
6) 2-Methylphenol	5.987	108	1145m	0.0166	ng		
7) Hexachloroethane	6.191	201	641m	0.0199	ng		
8) 3&4-Methylphenol	6.113	108	1159m	0.0161	ng		
11) 2,4-Dimethylphenol	6.522	107	1110m	0.0198	ng		
12) Naphthalene	6.798	128	5870m	0.0205	ng		
13) Hexachlorobutadiene	6.894	225	1158	0.0219	ng		60
15) Hexachlorocyclopentadiene	0.000		0	N.D. d			
16) 2,4,5-Trichlorophenol	7.599	196	572m	0.0142	ng		
18) Acenaphthylene	8.085	152	4198m	0.0174	ng		
19) Acenaphthene	8.235	153	3330m	0.0209	ng		
20) Dibenzofuran	8.396	168	5079m	0.0217	ng		
21) Fluorene	8.704	166	2615m	0.0182	ng		
23) 4,6-Dinitro-2-methylph...	0.000		0	N.D.			
24) 1,2-Diphenylhydrazine	8.855	77	1664	0.0152	ng		73
25) Hexachlorobenzene	9.254	284	1076m	0.0204	ng		
26) Pentachlorophenol	0.000		0	N.D.			
27) Phenanthrene	9.687	178	5852	0.0209	ng		89
28) Anthracene	9.745	178	4320	0.0183	ng		99
29) Carbazole	9.920	167	3658m	0.0188	ng		
30) Fluoranthene	11.021	202	5067	0.0189	ng		95
32) Pyrene	11.280	202	5730m	0.0215	ng		
34) Benzo[a]anthracene	12.700	228	2621m	0.0181	ng		
35) Chrysene	12.745	228	3968m	0.0228	ng		
37) Benzo[b]fluoranthene	13.927	252	2702m	0.0217	ng		
38) Benzo[k]fluoranthene	13.954	252	3054m	0.0209	ng		
39) Benzo[a]pyrene	14.275	252	1954m	0.0169	ng		
40) Indeno[1,2,3-cd]pyrene	15.629	276	2611m	0.0188	ng		
41) Dibenzo[a,h]anthracene	15.649	278	2165m	0.0199	ng		
42) Benzo[g,h,i]perylene	15.994	276	2773m	0.0226	ng		

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
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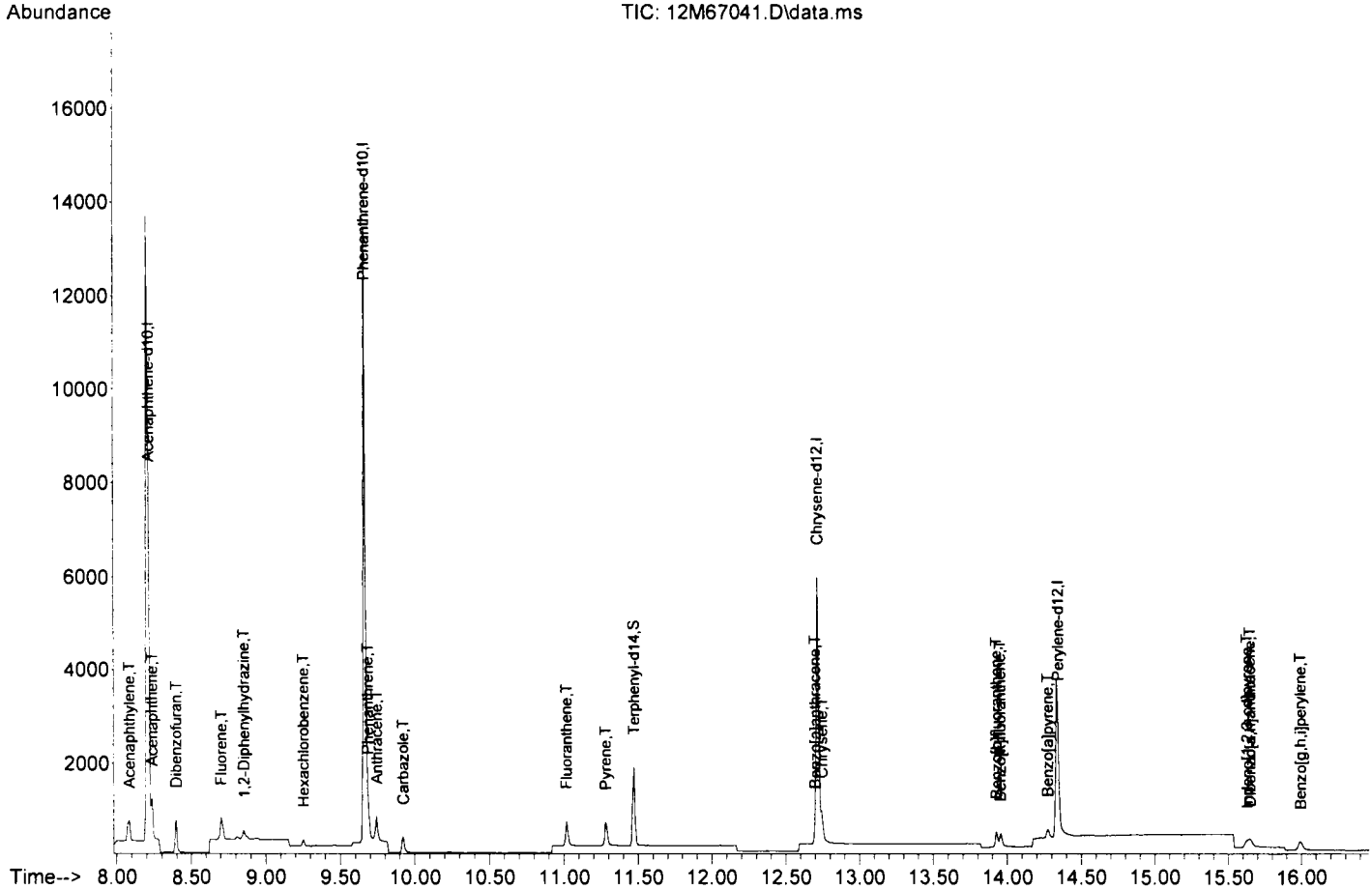
Quant QT Reviewed
SampleID : CAL SIM@0.02PPM
Data File: 12M67041.D
Acq On : 05/18/23 10:22
Operator : AH/JB
Sam Mult : 1 Vial# : 3
Misc : A,BN
Qt Meth : 12SM_0518.M
Qt On : 05/18/23 10:42
Qt Upd On: 04/05/23 14:33
1,4-Dioxane-d8(INT),I
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Hexachloroethane,T
Nitrobenzene-d5,S
2,4-Dimethylphenol,T
Naphthalene-d8,I
Naphthalene,T
Hexachlorobutadiene,T
2,4,5-Trichlorophenol,T
2-Chlorobiphenyl,S
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
Time-->


Abundance
TIC: 12M67041.D\data.ms
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
Fluorene,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Phenanthrene-d10,I
Phenanthrene,T
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Chrysene-d12,I
Benzo[a]anthracene,T
Chrysene,T
Benzo[a]pyrene,T
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,T
Dibenz[a,h]anthracene,T
Benzo[g,h,i]perylene,T
Time-->

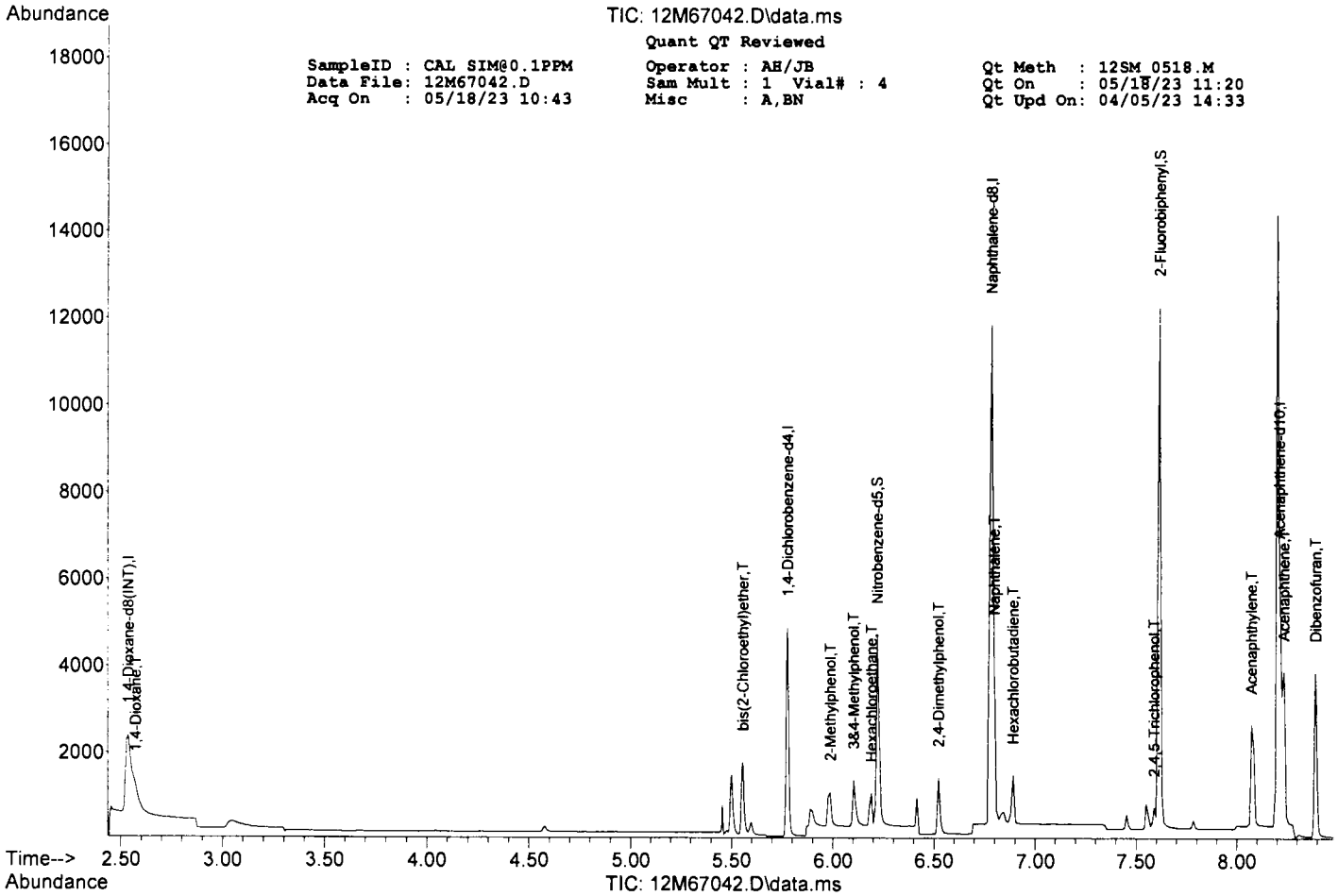
Quantitation Report (QT Reviewed)

SampleID : CAL SIM@0.1PPM Operator : AH/JB Qt Meth : 12SM_0518.M
Data File: 12M67042.D Sam Mult : 1 Vial# : 4 Qt On : 05/18/23 11:20
Acq On : 05/18/23 10:43 Misc : A,BN Qt Upd On: 04/05/23 14:33

Data Path : G:\GcMsData\2023\GCMS_12SM\Data\05-18-23\
Qt Path : G:\GCMSDATA\2023\GCMS_12SM\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.536	96	23581m	0.40	ng	-0.02
3) 1,4-Dichlorobenzene-d4	5.779	152	26092	0.40	ng	-0.02
9) Naphthalene-d8	6.788	136	108741	0.40	ng	-0.02
14) Acenaphthene-d10	8.209	164	58499	0.40	ng	-0.02
22) Phenanthrene-d10	9.665	188	102165	0.40	ng	-0.02
31) Chrysene-d12	12.719	240	41235	0.40	ng	-0.02
36) Perylene-d12	14.336	264	30599m	0.40	ng	-0.03
System Monitoring Compounds						
10) Nitrobenzene-d5	6.224	82	30499	0.55	ng	-0.02
Spiked Amount 50.000			Recovery =	1.10%		
17) 2-Fluorobiphenyl	7.621	172	86577	0.71	ng	-0.02
Spiked Amount 50.000			Recovery =	1.42%		
33) Terphenyl-d14	11.471	244	73356	0.76	ng	-0.03
Spiked Amount 50.000			Recovery =	1.52%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.572	88	6432m	0.1160	ng	
4) N-Nitrosodimethylamine	0.000		0	N.D.		
5) bis(2-Chloroethyl)ether	5.556	93	8805m	0.1035	ng	
6) 2-Methylphenol	5.986	108	5494m	0.0839	ng	
7) Hexachloroethane	6.194	201	3106	0.1017	ng	61
8) 3&4-Methylphenol	6.103	108	5629m	0.0826	ng	
11) 2,4-Dimethylphenol	6.524	107	4890	0.0910	ng	84
12) Naphthalene	6.801	128	28843	0.1051	ng	87
13) Hexachlorobutadiene	6.894	225	5566	0.1096	ng	60
15) Hexachlorocyclopentadiene	0.000		0	N.D. d		
16) 2,4,5-Trichlorophenol	7.593	196	2817	0.0719	ng	94
18) Acenaphthylene	8.074	152	21489m	0.0916	ng	
19) Acenaphthene	8.235	153	16331m	0.1052	ng	
20) Dibenzofuran	8.392	168	24973m	0.1099	ng	
21) Fluorene	8.704	166	13330m	0.0954	ng	
23) 4,6-Dinitro-2-methylph...	0.000		0	N.D.		
24) 1,2-Diphenylhydrazine	8.850	77	8168	0.0782	ng	9
25) Hexachlorobenzene	9.256	284	5062	0.1005	ng	93
26) Pentachlorophenol	0.000		0	N.D.		
27) Phenanthrene	9.685	178	28232	0.1055	ng	91
28) Anthracene	9.743	178	21024m	0.0930	ng	
29) Carbazole	9.916	167	16776m	0.0901	ng	
30) Fluoranthene	11.020	202	23921	0.0936	ng	99
32) Pyrene	11.283	202	24944	0.1001	ng	86
34) Benzo[a]anthracene	12.700	228	11504m	0.0849	ng	
35) Chrysene	12.745	228	17138m	0.1051	ng	
37) Benzo[b]fluoranthene	13.921	252	13258m	0.1118	ng	
38) Benzo[k]fluoranthene	13.954	252	13979m	0.1002	ng	
39) Benzo[a]pyrene	14.273	252	9402	0.0853	ng	93
40) Indeno[1,2,3-cd]pyrene	15.622	276	11255m	0.0849	ng	
41) Dibenzo[a,h]anthracene	15.642	278	9109m	0.0878	ng	
42) Benzo[g,h,i]perylene	15.983	276	11428m	0.0974	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
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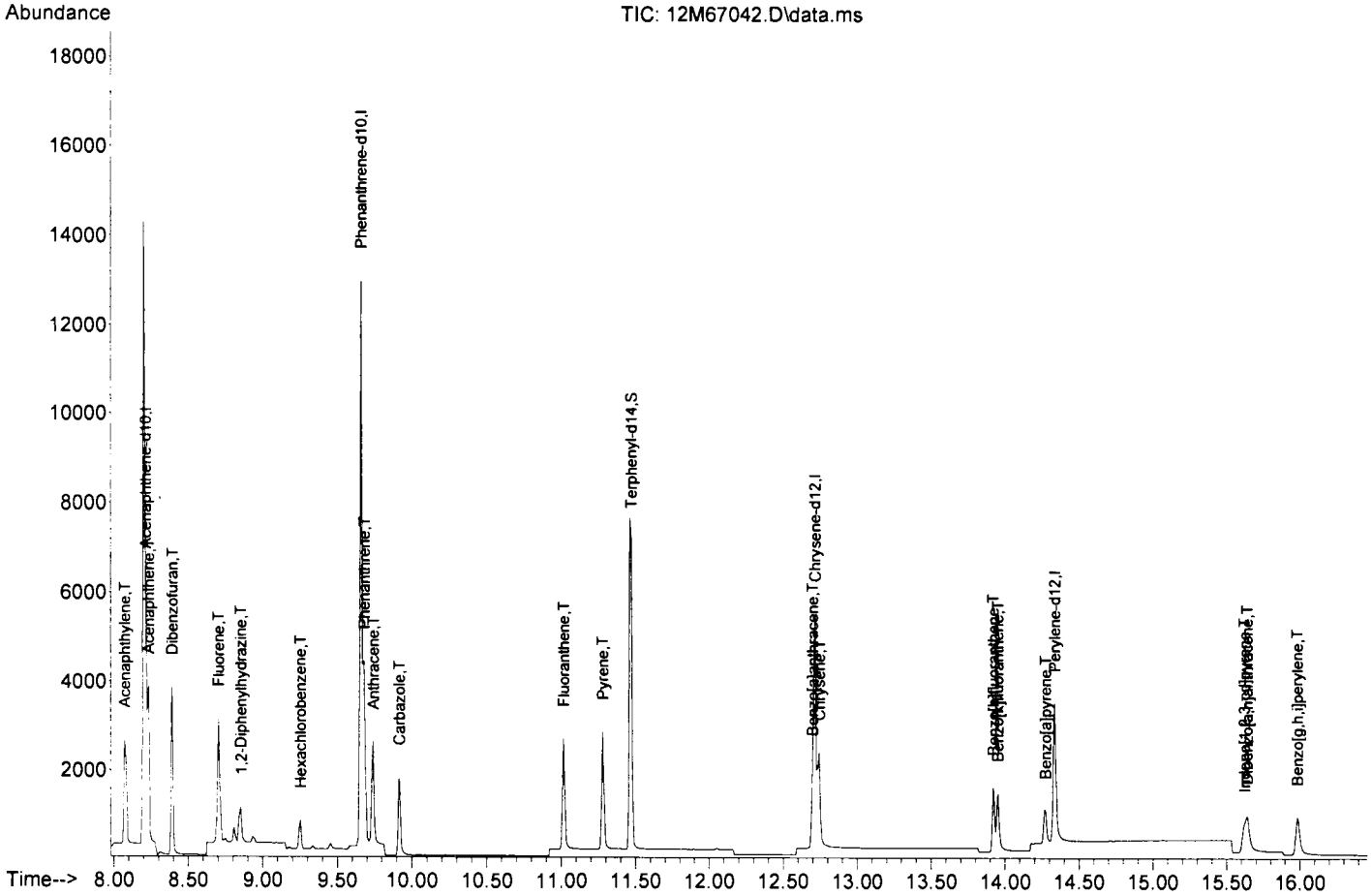
Quant QT Reviewed
SampleID : CAL SIM@0.1PPM
Data File: 12M67042.D
Acq On : 05/18/23 10:43
Operator : AH/JB
Sam Mult : 1 Vial# : 4
Misc : A,BN
Qt Meth : 12SM_0518.M
Qt On : 05/18/23 11:20
Qt Upd On: 04/05/23 14:33
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Hexachloroethane,T
Nitrobenzene-d5,S
2,4-Dimethylphenol,T
Naphthalene-d8,I
Naphthalene,T
Hexachlorobutadiene,T
2-Fluorobiphenyl,S
2,4,5-Trichlorophenol,T
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
Time-->


Abundance
TIC: 12M67042.D\data.ms
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
Fluorene,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Phenanthrene-d10,I
Phenanthrene,T
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Benzo[a]anthracene,T
Chrysene-d12,I
Chrysene,T
Benzo[b]fluoranthene,T
Benzo[k]fluoranthene,T
Benzo[a]pyrene,T
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,T
Dibenz[a,h]anthracene,T
Benzo[g,h,i]perylene,T
Time-->

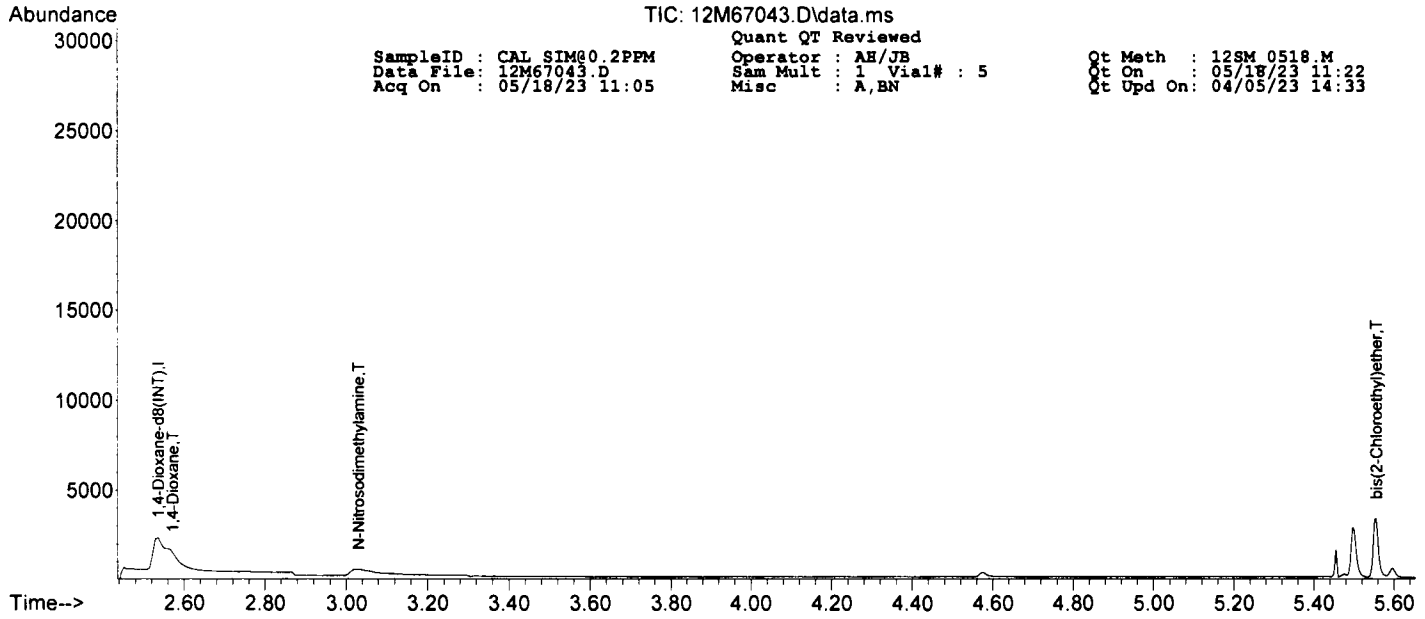
Quantitation Report (QT Reviewed)

SampleID : CAL SIM@0.2PPM Operator : AH/JB Qt Meth : 12SM_0518.M
Data File: 12M67043.D Sam Mult : 1 Vial# : 5 Qt On : 05/18/23 11:22
Acq On : 05/18/23 11:05 Misc : A,BN Qt Upd On: 04/05/23 14:33

Data Path : G:\GcMsData\2023\GCMS_12SM\Data\05-18-23\
Qt Path : G:\GCMSDATA\2023\GCMS_12SM\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.537	96	22379	0.40	ng	-0.02
3) 1,4-Dichlorobenzene-d4	5.779	152	25736	0.40	ng	-0.02
9) Naphthalene-d8	6.788	136	106205	0.40	ng	-0.02
14) Acenaphthene-d10	8.209	164	57003	0.40	ng	-0.02
22) Phenanthrene-d10	9.665	188	99965	0.40	ng	-0.02
31) Chrysene-d12	12.718	240	40935	0.40	ng	-0.02
36) Perylene-d12	14.336	264	30414m	0.40	ng	-0.03
System Monitoring Compounds						
10) Nitrobenzene-d5	6.224	82	57349	1.06	ng	-0.02
Spiked Amount 50.000			Recovery =	2.12%		
17) 2-Fluorobiphenyl	7.620	172	161755	1.36	ng	-0.02
Spiked Amount 50.000			Recovery =	2.72%		
33) Terphenyl-d14	11.469	244	139929	1.45	ng	-0.03
Spiked Amount 50.000			Recovery =	2.90%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.571	88	11012	0.2093	ng	100
4) N-Nitrosodimethylamine	3.031	74	12856m	0.1844	ng	
5) bis(2-Chloroethyl)ether	5.557	93	16880	0.2012	ng	97
6) 2-Methylphenol	5.986	108	10355m	0.1603	ng	
7) Hexachloroethane	6.194	201	5744	0.1908	ng	68
8) 3&4-Methylphenol	6.107	108	11132	0.1656	ng	59
11) 2,4-Dimethylphenol	6.522	107	9563	0.1822	ng	78
12) Naphthalene	6.801	128	54303	0.2025	ng	91
13) Hexachlorobutadiene	6.894	225	10804	0.2177	ng	59
15) Hexachlorocyclopentadiene	7.453	237	3332m	0.1161	ng	
16) 2,4,5-Trichlorophenol	7.589	196	5774m	0.1511	ng	
18) Acenaphthylene	8.074	152	39373m	0.1722	ng	
19) Acenaphthene	8.235	153	30534m	0.2019	ng	
20) Dibenzofuran	8.393	168	46419	0.2097	ng	97
21) Fluorene	8.704	166	25103m	0.1843	ng	
23) 4,6-Dinitro-2-methylph...	8.750	198	1582m	0.1004	ng	
24) 1,2-Diphenylhydrazine	8.841	77	16331m	0.1597	ng	
25) Hexachlorobenzene	9.255	284	9399	0.1908	ng	95
26) Pentachlorophenol	9.457	266	1579	0.0688	ng	100
27) Phenanthrene	9.685	178	51643	0.1973	ng	92
28) Anthracene	9.743	178	38318m	0.1732	ng	
29) Carbazole	9.918	167	32047	0.1760	ng	99
30) Fluoranthene	11.019	202	47174	0.1887	ng	99
32) Pyrene	11.283	202	46859	0.1893	ng	87
34) Benzo[a]anthracene	12.699	228	21315m	0.1584	ng	
35) Chrysene	12.745	228	32806	0.2028	ng	100
37) Benzo[b]fluoranthene	13.921	252	25458m	0.2160	ng	
38) Benzo[k]fluoranthene	13.948	252	24985m	0.1802	ng	
39) Benzo[a]pyrene	14.267	252	18749m	0.1712	ng	
40) Indeno[1,2,3-cd]pyrene	15.622	276	21398m	0.1624	ng	
41) Dibenzo[a,h]anthracene	15.642	278	17330m	0.1681	ng	
42) Benzo[g,h,i]perylene	15.984	276	20827	0.1785	ng	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed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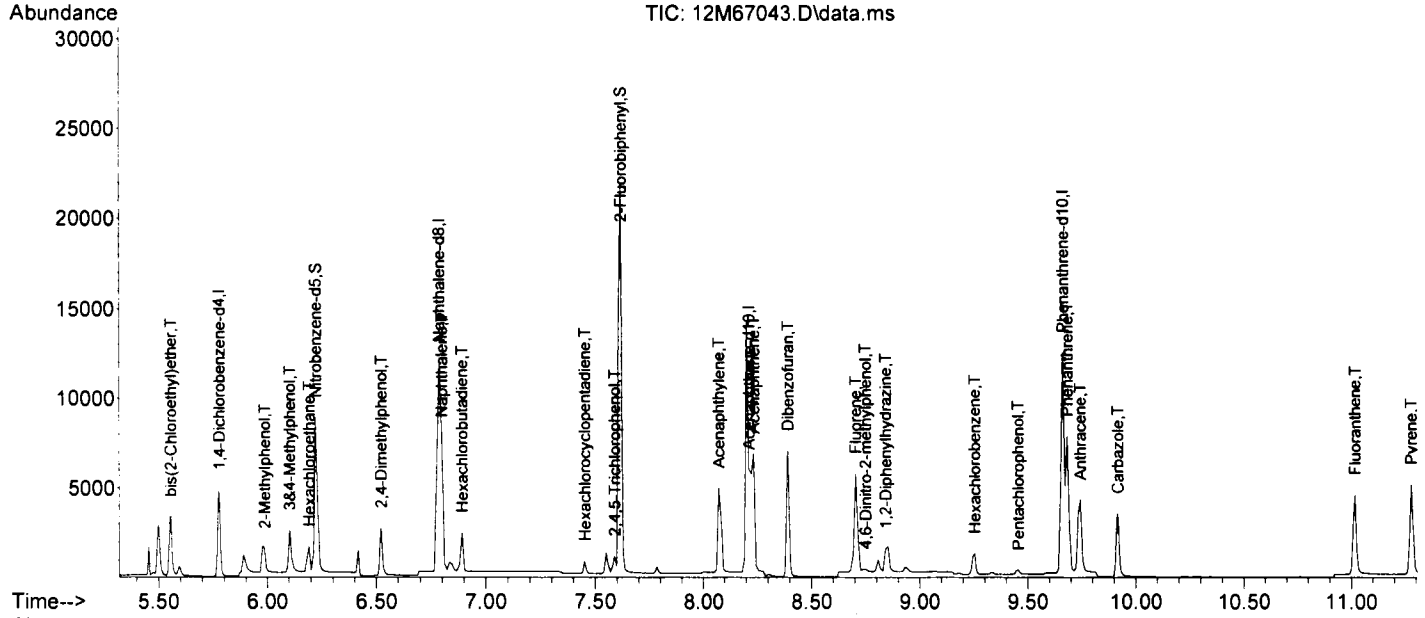
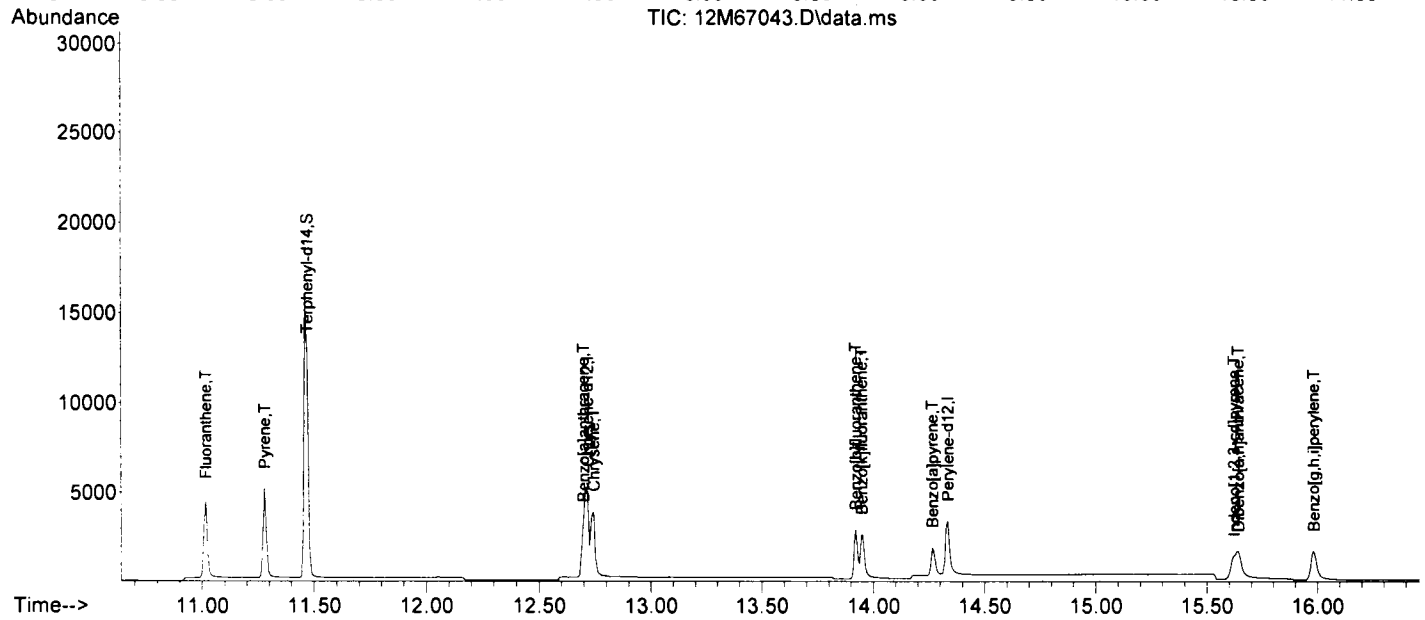
Quant QT Reviewed
SampleID : CAL SIM@0.2PPM
Data File: 12M67043.D
Acq On : 05/18/23 11:05
Operator : AH/JB
Sam Mult : 1 Vial# : 5
Misc : A,BN
Qt Meth : 12SM_0518.M
Qt On : 05/18/23 11:22
Qt Upd On: 04/05/23 14:33
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
Time-->


Abundance
TIC: 12M67043.D\data.ms
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Hexachloroethane,T
Nitrobenzene-d5,S
2,4-Dimethylphenol,T
Naphthalene-d8,I
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2,4,5-Trichlorophenol,T
2-Fluorobiphenyl,S
Acenaphthylene,T
Dibenzofuran,T
Fluorene,T
4,6-Dinitro-2-methylphenol,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Phenanthrene-d10,I
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Time-->


Abundance
TIC: 12M67043.D\data.ms
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Benzo[a]pyrene,T
Perylene-d12,I
Benzo[g,h,i]perylene,T
Time-->

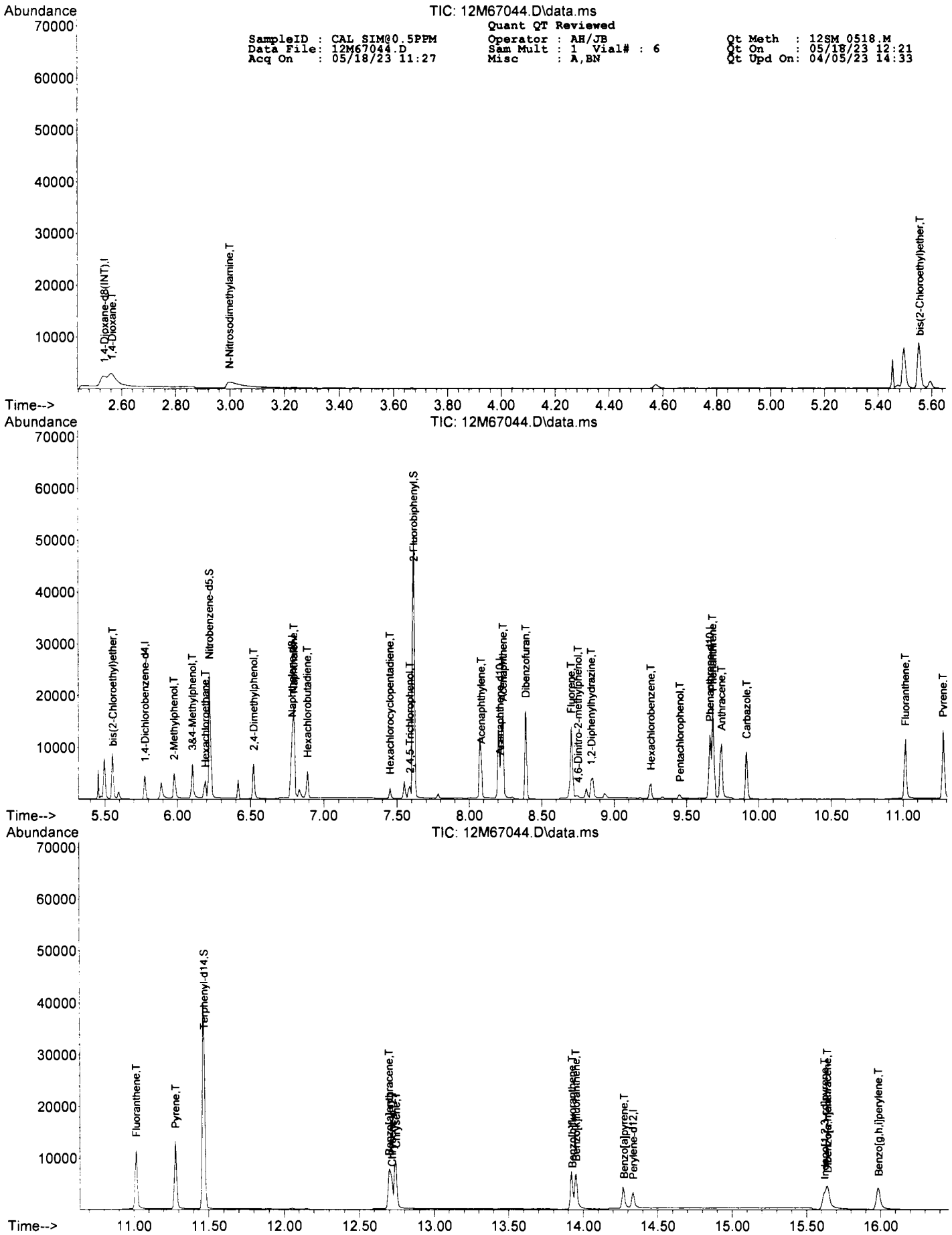
Quantitation Report (QT Reviewed)

SampleID : CAL SIM@0.5PPM Operator : AH/JB Qt Meth : 12SM_0518.M
Data File: 12M67044.D Sam Mult : 1 Vial# : 6 Qt On : 05/18/23 12:21
Acq On : 05/18/23 11:27 Misc : A,BN Qt Upd On: 04/05/23 14:33

Data Path : G:\GcMsData\2023\GCMS_12SM\Data\05-18-23\
Qt Path : G:\GCMSDATA\2023\GCMS_12SM\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.536	96	22169	0.40	ng	-0.02
3) 1,4-Dichlorobenzene-d4	5.779	152	24701	0.40	ng	-0.02
9) Naphthalene-d8	6.788	136	101565	0.40	ng	-0.02
14) Acenaphthene-d10	8.209	164	54411	0.40	ng	-0.02
22) Phenanthrene-d10	9.665	188	95010	0.40	ng	-0.02
31) Chrysene-d12	12.718	240	42430m	0.40	ng	-0.02
36) Perylene-d12	14.336	264	29960m	0.40	ng	-0.03
System Monitoring Compounds						
10) Nitrobenzene-d5	6.224	82	152109	2.95	ng	-0.02
Spiked Amount 50.000			Recovery =	5.90%		
17) 2-Fluorobiphenyl	7.620	172	392634	3.48	ng	-0.02
Spiked Amount 50.000			Recovery =	6.96%		
33) Terphenyl-d14	11.469	244	355782	3.57	ng	-0.03
Spiked Amount 50.000			Recovery =	7.14%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.568	88	27330	0.5244	ng	93
4) N-Nitrosodimethylamine	2.998	74	33474m	0.5002	ng	
5) bis(2-Chloroethyl)ether	5.556	93	46535	0.5780	ng	91
6) 2-Methylphenol	5.981	108	28109	0.4535	ng	82
7) Hexachloroethane	6.194	201	13716	0.4746	ng	64
8) 3&4-Methylphenol	6.107	108	28118	0.4358	ng	73
11) 2,4-Dimethylphenol	6.522	107	25314	0.5043	ng	68
12) Naphthalene	6.801	128	139470	0.5440	ng	90
13) Hexachlorobutadiene	6.894	225	25788	0.5434	ng	60
15) Hexachlorocyclopentadiene	7.457	237	11141	0.4067	ng	93
16) 2,4,5-Trichlorophenol	7.588	196	14627	0.4011	ng	70
18) Acenaphthylene	8.081	152	98402	0.4508	ng	97
19) Acenaphthene	8.235	153	74847	0.5186	ng	89
20) Dibenzofuran	8.393	168	111416	0.5272	ng	96
21) Fluorene	8.708	166	63873	0.4914	ng	79
23) 4,6-Dinitro-2-methylph...	8.751	198	3285	0.2185	ng	94
24) 1,2-Diphenylhydrazine	8.841	77	44873m	0.4618	ng	
25) Hexachlorobenzene	9.256	284	22842	0.4878	ng	94
26) Pentachlorophenol	9.455	266	4911	0.2245	ng	98
27) Phenanthrene	9.685	178	126577	0.5087	ng	92
28) Anthracene	9.744	178	102017	0.4852	ng	95
29) Carbazole	9.917	167	81005	0.4680	ng	97
30) Fluoranthene	11.019	202	115141	0.4845	ng	96
32) Pyrene	11.283	202	120246	0.4687	ng	89
34) Benzo[a]anthracene	12.703	228	55474	0.3978	ng	98
35) Chrysene	12.745	228	84977	0.5067	ng	100
37) Benzo[b]fluoranthene	13.924	252	59965	0.5165	ng	90
38) Benzo[k]fluoranthene	13.953	252	74734	0.5472	ng	97
39) Benzo[a]pyrene	14.272	252	46500	0.4309	ng	91
40) Indeno[1,2,3-cd]pyrene	15.622	276	57334	0.4418	ng	96
41) Dibenzo[a,h]anthracene	15.646	278	51342	0.5056	ng	96
42) Benzo[g,h,i]perylene	15.986	276	55431	0.4823	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed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Quant QT Reviewed
SampleID : CAL SIM@0.5PPM
Data File: 12M67044.D
Acq On : 05/18/23 11:27
Operator : AH/JB
Sam Mult : 1 Vial# : 6
Misc : A,BN
Qt Meth : 12SM_0518.M
Qt On : 05/18/23 12:21
Qt Upd On: 04/05/23 14:33
Abundance
Time-->
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
TIC: 12M67044.D\data.ms
Abundance
Time-->
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Hexachloroethane,T
Nitrobenzene-d5,S
2,4-Dimethylphenol,T
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2,4,5-Trichlorophenol,T
2-Fluorobiphenyl,S
Acenaphthylene,T
Dibenzofuran,T
Fluorene,T
4,6-Dinitro-2-methylphenol,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
TIC: 12M67044.D\data.ms
Abundance
Time-->
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Chrysene,T
Benzo[b]fluoranthene,T
Benzo[k]fluoranthene,T
Benzo[a]pyrene,T
Perylene-d12,I
Benzo[g,h,i]perylene,T

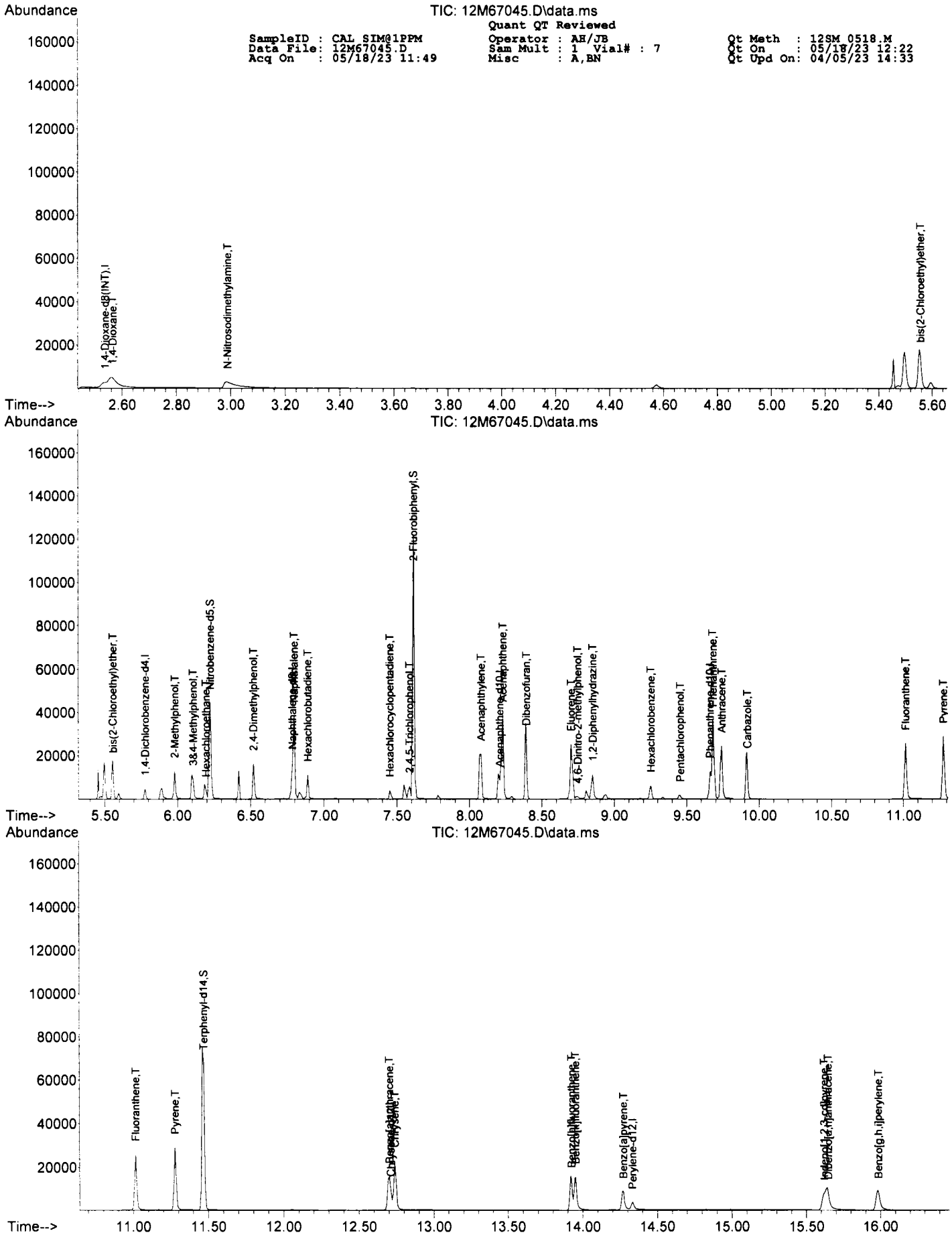
Quantitation Report (QT Reviewed)

SampleID : CAL SIM@1PPM Operator : AH/JB Qt Meth : 12SM_0518.M
Data File: 12M67045.D Sam Mult : 1 Vial# : 7 Qt On : 05/18/23 12:22
Acq On : 05/18/23 11:49 Misc : A,BN Qt Upd On: 04/05/23 14:33

Data Path : G:\GcMsData\2023\GCMS_12SM\Data\05-18-23\
Qt Path : G:\GCMSDATA\2023\GCMS_12SM\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.536	96	23150	0.40	ng	-0.02
3) 1,4-Dichlorobenzene-d4	5.778	152	25065	0.40	ng	-0.02
9) Naphthalene-d8	6.788	136	113266	0.40	ng	-0.02
14) Acenaphthene-d10	8.210	164	57217	0.40	ng	-0.02
22) Phenanthrene-d10	9.663	188	100074	0.40	ng	-0.03
31) Chrysene-d12	12.717	240	46908	0.40	ng	-0.02
36) Perylene-d12	14.334	264	32411m	0.40	ng	-0.04
System Monitoring Compounds						
10) Nitrobenzene-d5	6.223	82	303090	5.28	ng	-0.02
Spiked Amount 50.000			Recovery =	10.56%		
17) 2-Fluorobiphenyl	7.620	172	768447	6.53	ng	-0.02
Spiked Amount 50.000			Recovery =	13.06%		
33) Terphenyl-d14	11.469	244	707725	6.44	ng	-0.03
Spiked Amount 50.000			Recovery =	12.88%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.565	88	56476	1.0378	ng	93
4) N-Nitrosodimethylamine	2.987	74	53148	0.7826	ng	95
5) bis(2-Chloroethyl)ether	5.556	93	88226	1.0800	ng	89
6) 2-Methylphenol	5.983	108	58494	0.9300	ng	92
7) Hexachloroethane	6.194	201	27364	0.9331	ng	37
8) 3&4-Methylphenol	6.106	108	59516	0.9091	ng	97
11) 2,4-Dimethylphenol	6.521	107	55487	0.9912	ng	80
12) Naphthalene	6.800	128	282920	0.9895	ng	93
13) Hexachlorobutadiene	6.893	225	51146	0.9665	ng	67
15) Hexachlorocyclopentadiene	7.455	237	22329	0.7751	ng	83
16) 2,4,5-Trichlorophenol	7.587	196	35930m	0.9371	ng	
18) Acenaphthylene	8.082	152	205484	0.8953	ng	99
19) Acenaphthene	8.234	153	151025	0.9951	ng	85
20) Dibenzofuran	8.393	168	221039	0.9946	ng	90
21) Fluorene	8.707	166	129511	0.9474	ng	69
23) 4,6-Dinitro-2-methylph...	8.749	198	8196	0.5131	ng	92
24) 1,2-Diphenylhydrazine	8.851	77	103191m	1.0081	ng	
25) Hexachlorobenzene	9.255	284	46675	0.9464	ng	85
26) Pentachlorophenol	9.454	266	11874	0.5129	ng	97
27) Phenanthrene	9.684	178	257810	0.9837	ng	91
28) Anthracene	9.742	178	215174	0.9715	ng	95
29) Carbazole	9.917	167	178201	0.9774	ng	92
30) Fluoranthene	11.018	202	242244	0.9677	ng	97
32) Pyrene	11.281	202	257983	0.9096	ng	87
34) Benzo[a]anthracene	12.702	228	125770	0.8159	ng	95
35) Chrysene	12.744	228	174800	0.9428	ng	93
37) Benzo[b]fluoranthene	13.923	252	130460	1.0386	ng	92
38) Benzo[k]fluoranthene	13.952	252	160545	1.0866	ng	97
39) Benzo[a]pyrene	14.271	252	106706	0.9141	ng	93
40) Indeno[1,2,3-cd]pyrene	15.621	276	128042	0.9121	ng	98
41) Dibenzo[a,h]anthracene	15.644	278	111359	1.0136	ng	96
42) Benzo[g,h,i]perylene	15.984	276	121244	0.9752	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed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Quant QT Reviewed
SampleID : CAL SIM@1PPM
Data File: 12M67045.D
Acq On : 05/18/23 11:49
Operator : AH/JB
Sam Mult : 1 Vial# : 7
Misc : A,BN
Qt Meth : 12SM_0518.M
Qt On : 05/18/23 12:22
Qt Upd On: 04/05/23 14:33
1,4-Dioxane-d8(INT),I
1,4-Dioxane,I
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
Time-->
Abundance
TIC: 12M67045.D\data.ms
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Hexachloroethane,T
Nitrobenzene-d5,S
2,4-Dimethylphenol,T
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2-Fluorobiphenyl,S
2,4,5-Trichlorophenol,T
Acenaphthylene,T
Dibenzofuran,T
4,6-Dinitro-2-methylphenol,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Time-->
Abundance
TIC: 12M67045.D\data.ms
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Benzo[a]pyrene,T
Perylene-d12,I
Benzo[g,h,i]perylene,T
Time-->

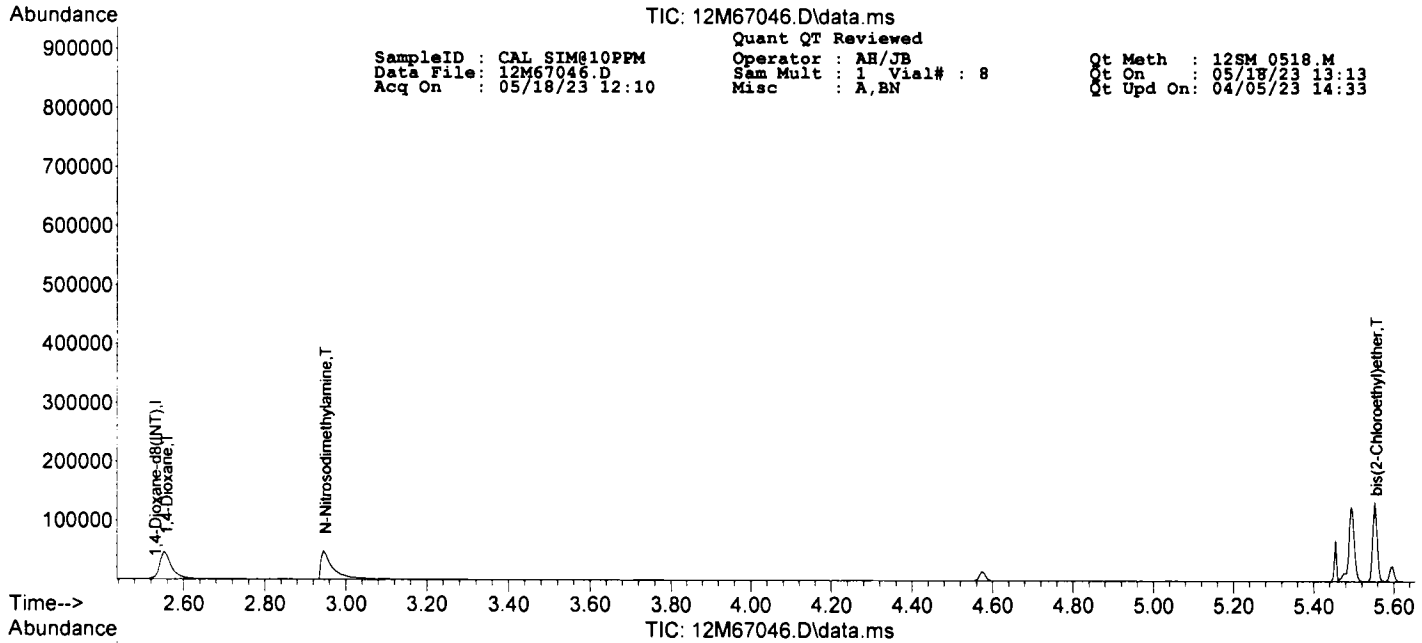
Quantitation Report (QT Reviewed)

SampleID : CAL SIM@10PPM Operator : AH/JB Qt Meth : 12SM_0518.M
Data File: 12M67046.D Sam Mult : 1 Vial# : 8 Qt On : 05/18/23 13:13
Acq On : 05/18/23 12:10 Misc : A,BN Qt Upd On: 04/05/23 14:33

Data Path : G:\GcMsData\2023\GCMS_12SM\Data\05-18-23\
Qt Path : G:\GCMSDATA\2023\GCMS_12SM\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.529	96	22364m	0.40	ng	-0.03
3) 1,4-Dichlorobenzene-d4	5.779	152	21218	0.40	ng	-0.02
9) Naphthalene-d8	6.788	136	94288	0.40	ng	-0.02
14) Acenaphthene-d10	8.209	164	49108	0.40	ng	-0.02
22) Phenanthrene-d10	9.665	188	94110	0.40	ng	-0.02
31) Chrysene-d12	12.709	240	43409m	0.40	ng	-0.03
36) Perylene-d12	14.337	264	32078	0.40	ng	-0.03
System Monitoring Compounds						
10) Nitrobenzene-d5	6.224	82	2500024	52.27	ng	-0.02
Spiked Amount 50.000			Recovery = 104.54%			
17) 2-Fluorobiphenyl	7.621	172	4747539	55.59	ng	-0.02
Spiked Amount 50.000			Recovery = 111.18%			
33) Terphenyl-d14	11.469	244	4816804	49.06	ng	-0.03
Spiked Amount 50.000			Recovery = 98.12%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.557	88	529070	10.0640	ng	95
4) N-Nitrosodimethylamine	2.949	74	598690	10.4139	ng	90
5) bis(2-Chloroethyl)ether	5.556	93	603772	8.7310	ng	88
6) 2-Methylphenol	5.977	108	577679m	10.8499	ng	
7) Hexachloroethane	6.194	201	243574	9.8121	ng	65
8) 3&4-Methylphenol	6.104	108	586149m	10.5761	ng	
11) 2,4-Dimethylphenol	6.520	107	540133	11.5906	ng	49
12) Naphthalene	6.801	128	2138399	8.9843	ng	85
13) Hexachlorobutadiene	6.894	225	427784	9.7106	ng	58
15) Hexachlorocyclopentadiene	7.457	237	290781	11.7604	ng	92
16) 2,4,5-Trichlorophenol	7.579	196	393957m	11.9710	ng	
18) Acenaphthylene	8.080	152	2125904	10.7918	ng	93
19) Acenaphthene	8.235	153	1256979	9.6497	ng	98
20) Dibenzofuran	8.392	168	1582502	8.2969	ng	95
21) Fluorene	8.708	166	1236247	10.5370	ng	90
23) 4,6-Dinitro-2-methylph...	8.751	198	195206	10.1247	ng	81
24) 1,2-Diphenylhydrazine	8.851	77	1126246	11.7003	ng	12
25) Hexachlorobenzene	9.255	284	437698	9.4374	ng	98
26) Pentachlorophenol	9.452	266	254702	10.1318	ng	88
27) Phenanthrene	9.685	178	2230240	9.0489	ng	98
28) Anthracene	9.738	178	2054047	9.8617	ng	94
29) Carbazole	9.915	167	1697769	9.9022	ng	93
30) Fluoranthene	11.018	202	2514915	10.6835	ng	92
32) Pyrene	11.281	202	2517697	9.5929	ng	93
34) Benzo[a]anthracene	12.700	228	1641439m	11.5062	ng	
35) Chrysene	12.742	228	1517981	8.8470	ng	96
37) Benzo[b]fluoranthene	13.922	252	1425912	11.4700	ng	93
38) Benzo[k]fluoranthene	13.952	252	1398587	9.5642	ng	93
39) Benzo[a]pyrene	14.270	252	1371307	11.8690	ng	94
40) Indeno[1,2,3-cd]pyrene	15.620	276	1531642	11.0243	ng	98
41) Dibenzo[a,h]anthracene	15.643	278	1149271	10.5694	ng	98
42) Benzo[g,h,i]perylene	15.983	276	1264146	10.2730	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed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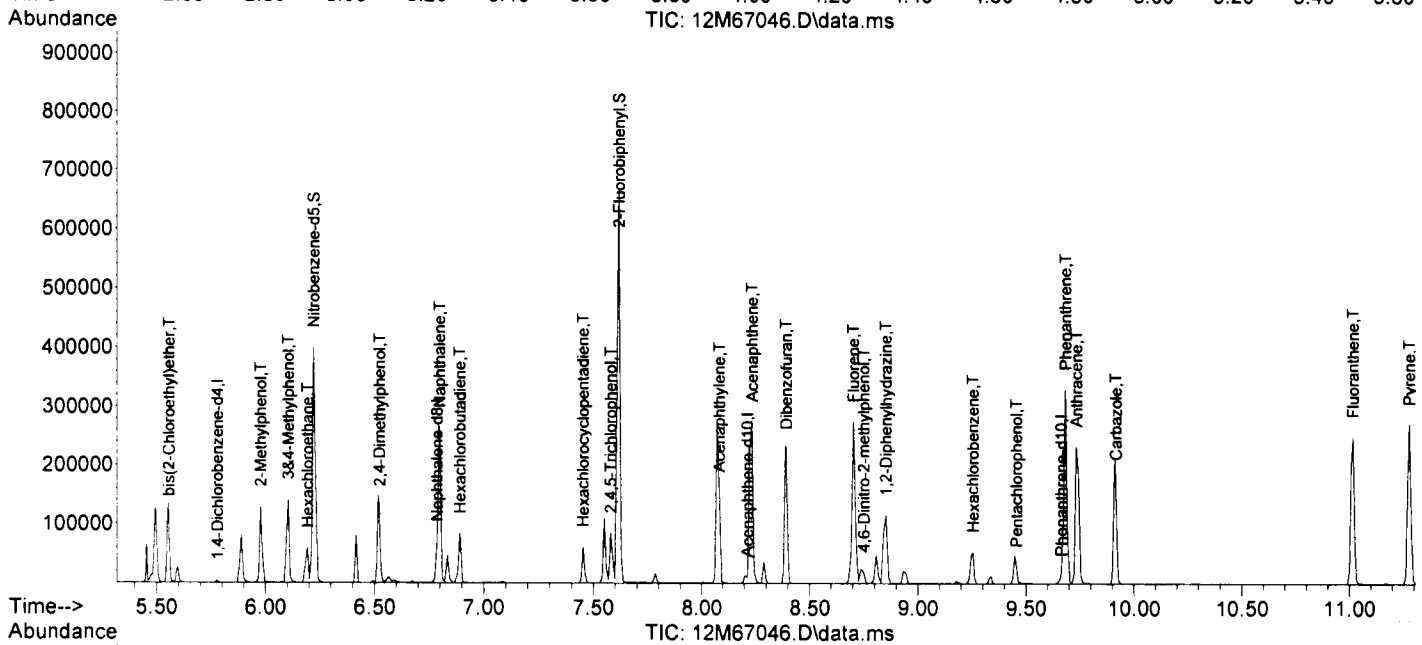
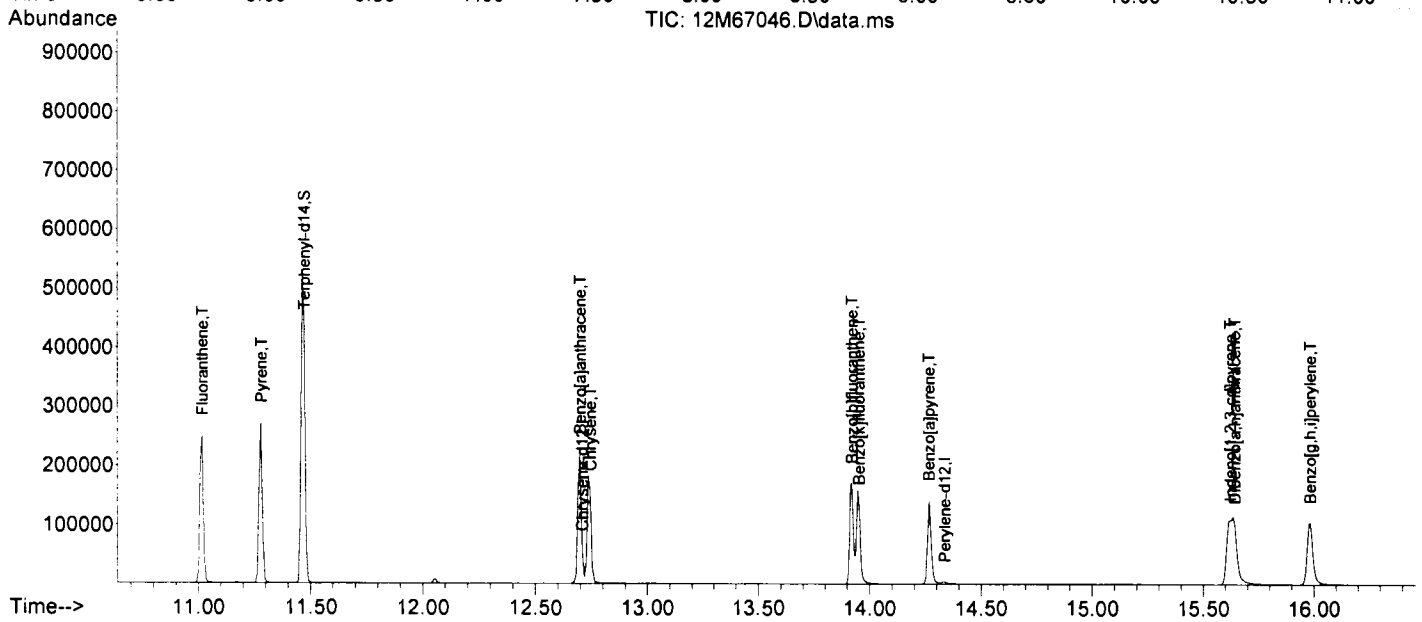
Quant QT Reviewed
SampleID : CAL SIM@10PPM
Data File: 12M67046.D
Acq On : 05/18/23 12:10
Operator : AH/JB
Sam Mult : 1 Vial# : 8
Misc : A,BN
Qt Meth : 12SM_0518.M
Qt On : 05/18/23 13:13
Qt Upd On: 04/05/23 14:33
1,4-Dioxane-d8(UNT),I
1,4-Dioxane,I
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
Time-->


Abundance
TIC: 12M67046.D\data.ms
bis(2-Chloroethyl)ether,T
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Hexachloroethane,T
Nitrobenzene-d5,S
2,4-Dimethylphenol,T
Naphthalene-d8,I
Naphthalene,T
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2,4,5-Trichlorophenol,T
2-Fluorobiphenyl,S
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
4,6-Dinitro-2-methylphenol,T
Fluorene,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Phenanthrene-d10,I
Phenanthrene,T
Anthracene,I
Carbazole,T
Fluoranthene,T
Pyrene,T
Time-->


Abundance
TIC: 12M67046.D\data.ms
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Benzo[a]anthracene,T
Chrysene,I
Benzo[b]fluoranthene,T
Benzo[k]fluoranthene,T
Benzo[a]pyrene,T
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,T
Dibenz[a,h]anthracene,T
Benzo[g,h,i]perylene,T
Time-->

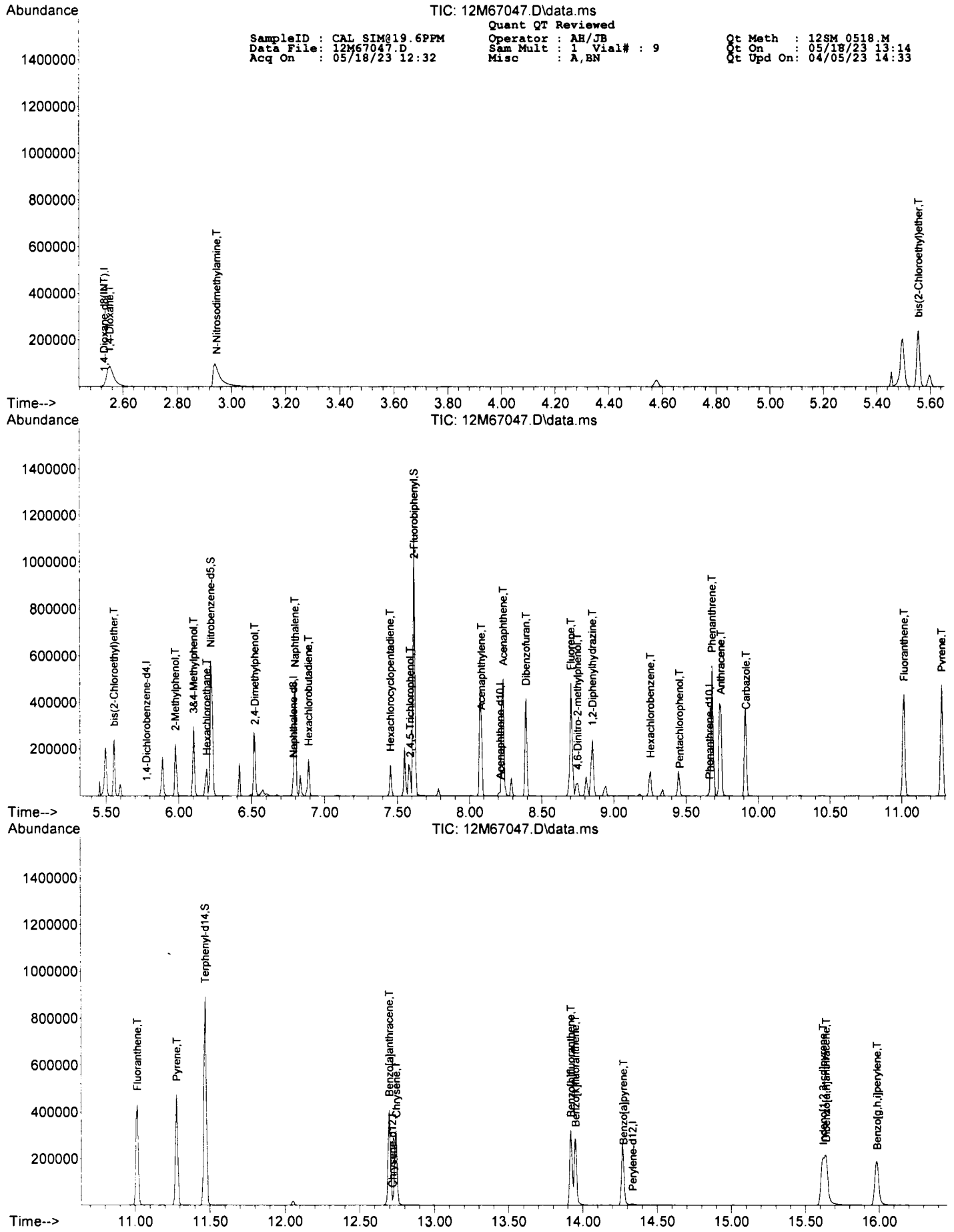
Quantitation Report (QT Reviewed)

SampleID : CAL SIM@19.6PPM Operator : AH/JB Qt Meth : 12SM_0518.M
Data File: 12M67047.D Sam Mult : 1 Vial# : 9 Qt On : 05/18/23 13:14
Acq On : 05/18/23 12:32 Misc : A,BN Qt Upd On: 04/05/23 14:33

Data Path : G:\GcMsData\2023\GCMS_12SM\Data\05-18-23\
Qt Path : G:\GCMSDATA\2023\GCMS_12SM\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.529	96	23025m	0.40	ng	-0.03
3) 1,4-Dichlorobenzene-d4	5.779	152	22928	0.40	ng	-0.02
9) Naphthalene-d8	6.788	136	100059	0.40	ng	-0.02
14) Acenaphthene-d10	8.209	164	52354	0.40	ng	-0.02
22) Phenanthrene-d10	9.665	188	100790	0.40	ng	-0.02
31) Chrysene-d12	12.718	240	43224m	0.40	ng	-0.02
36) Perylene-d12	14.336	264	36482	0.40	ng	-0.03
System Monitoring Compounds						
10) Nitrobenzene-d5	6.224	82	4301801	84.76	ng	-0.02
Spiked Amount 50.000			Recovery = 169.52%			
17) 2-Fluorobiphenyl	7.621	172	7798197	104.74	ng	-0.02
Spiked Amount 50.000			Recovery = 209.48%			
33) Terphenyl-d14	11.474	244	8184078	86.45	ng	-0.02
Spiked Amount 50.000			Recovery = 172.90%			
Target Compounds						Qvalue
2) 1,4-Dioxane	2.554	88	982256	18.1475	ng	89
4) N-Nitrosodimethylamine	2.942	74	1128423	18.1649	ng	88
5) bis(2-Chloroethyl)ether	5.558	93	1068854	14.3040	ng	97
6) 2-Methylphenol	5.980	108	1097359	19.0737	ng	92
7) Hexachloroethane	6.194	201	475783	17.7373	ng	65
8) 3&4-Methylphenol	6.104	108	1131645m	18.8964	ng	
11) 2,4-Dimethylphenol	6.520	107	1020940	20.6445	ng	54
12) Naphthalene	6.801	128	3877108	15.3498	ng	83
13) Hexachlorobutadiene	6.894	225	800478	17.1225	ng	58
15) Hexachlorocyclopentadiene	7.457	237	627837	23.8180	ng	95
16) 2,4,5-Trichlorophenol	7.585	196	752888	21.4593	ng	50
18) Acenaphthylene	8.080	152	3853574	18.3492	ng	93
19) Acenaphthene	8.235	153	2252300	16.2187	ng	97
20) Dibenzofuran	8.393	168	2848432	14.0081	ng	99
21) Fluorene	8.708	166	2247556	17.9690	ng	92
23) 4,6-Dinitro-2-methylph...	8.752	198	466112	18.8149	ng	84
24) 1,2-Diphenylhydrazine	8.854	77	2139968	20.7582	ng	47
25) Hexachlorobenzene	9.256	284	824161	16.5925	ng	89
26) Pentachlorophenol	9.452	266	554564	18.4582	ng	89
27) Phenanthrene	9.685	178	3921602	14.8568	ng	97
28) Anthracene	9.740	178	3760475	16.8580	ng	91
29) Carbazole	9.914	167	3144687	17.1257	ng	95
30) Fluoranthene	11.017	202	4510999	17.8930	ng	95
32) Pyrene	11.282	202	4485108	17.1623	ng	89
34) Benzo[a]anthracene	12.702	228	3081897	21.6960	ng	96
35) Chrysene	12.745	228	2650879	15.5158	ng	98
37) Benzo[b]fluoranthene	13.923	252	2587439	18.3008	ng	94
38) Benzo[k]fluoranthene	13.953	252	2535476	15.2458	ng	93
39) Benzo[a]pyrene	14.271	252	2601948	19.8021	ng	85
40) Indeno[1,2,3-cd]pyrene	15.621	276	2904516	18.3824	ng	98
41) Dibenzo[a,h]anthracene	15.645	278	2148420	17.3731	ng	99
42) Benzo[g,h,i]perylene	15.986	276	2404375	17.1805	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed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Data File: 12M67047.D
Acq On : 05/18/23 12:32
Operator : AH/JB
Sam Mult : 1 Vial# : 9
Misc : A,BN
Qt Meth : 12SM_0518.M
Qt On : 05/18/23 13:14
Qt Upd On: 04/05/23 14:33
Abundance
Time-->
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
bis(2-Chloroethyl)ether,T
bis(2-Chloroethyl)ether,T
bis(2-Chloroethyl)ether-d4,I
1,4-Dichlorobenzene-d4,I
2-Methylphenol,T
3&4-Methylphenol,T
Hexachloroethane,T
Nitrobenzene-d5,S
2,4-Dimethylphenol,T
Naphthalene-d8,I
Naphthalene,T
Hexachlorobutadiene,T
Hexachlorocyclopentadiene,T
2-Fluorobiphenyl,S
2,4,5-Trichlorophenol,T
Acenaphthylene,T
Acenaphthene-d10,I
Acenaphthene,T
Dibenzofuran,T
Fluorene,T
4,6-Dinitro-2-methylphenol,T
1,2-Diphenylhydrazine,T
Hexachlorobenzene,T
Pentachlorophenol,T
Phenanthrene-d10,I
Phenanthrene,T
Anthracene,T
Carbazole,T
Fluoranthene,T
Pyrene,T
Terphenyl-d14,S
Fluoranthene,T
Pyrene,T
Benzo[a]anthracene,T
Chrysene-d12,I
Chrysene,T
Benzo[b]fluoranthene,T
Benzo[k]fluoranthene,T
Benzo[a]pyrene,T
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,T
Dibenz[a,h]anthracene,T
Benzo[g,h,i]perylene,T

TxtDfile: 5M124265.D ICV FORM Date/Time: 06/21/23 15:55

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
1.4-Dioxane	1	0		51.8289	50	104		70	130
Pyridine	1	0		48.3327	50	97		50	150
N-Nitrosodimethylamine	1	0		47.1991	50	94		70	130
Benzaldehyde	1	0		31.5643	50	63		50	150
Aniline	1	0		55.0473	50	110		50	150
Pentachloroethane	1	0		46.4125	50	93		70	130
bis(2-Chloroethyl)ether	1	0		44.5353	50	89		70	130
Phenol	1	0		46.1545	50	92		70	130
2-Chlorophenol	1	0		45.3955	50	91		70	130
1.3-Dichlorobenzene	1	0		45.6264	50	91		70	130
1.4-Dichlorobenzene	1	0		46.9121	50	94		70	130
1.2-Dichlorobenzene	1	0		46.8721	50	94		70	130
Benzyl alcohol	1	0		47.8142	50	96		70	130
bis(2-chloroisopropyl)ether	1	0		47.4486	50	95		70	130
2-Methylphenol	1	0		47.9564	50	96		70	130
Acetophenone	1	0		56.1514	50	112		70	130
Hexachloroethane	1	0		46.2626	50	93		70	130
N-Nitroso-di-n-propylamine	1	0		49.1698	50	98		70	130
3&4-Methylphenol	1	0		51.1805	50	102		70	130
Nitrobenzene	1	0		46.7757	50	94		70	130
Isophorone	1	0		48.395	50	97		70	130
2-Nitrophenol	1	0		49.0765	50	98		70	130
2.4-Dimethylphenol	1	0		46.4896	50	93		70	130
Benzoic Acid	1	0		74.5942	50	149		50	190
bis(2-Chloroethoxy)methane	1	0		48.2963	50	97		70	130
2.4-Dichlorophenol	1	0		47.1016	50	94		70	130
1.2.4-Trichlorobenzene	1	0		48.412	50	97		70	130
Naphthalene	1	0		44.5936	50	89		70	130
4-Chloroaniline	1	0		56.3747	50	113		50	150
Hexachlorobutadiene	1	0		48.937	50	98		70	130
Caprolactam	1	0		58.6816	50	117		70	130
4-Chloro-3-methylphenol	1	0		47.0158	50	94		70	130
2-Methylnaphthalene	1	0		47.9989	50	96		70	130
1-Methylnaphthalene	1	0		59.8193	50	120		70	130
1.1'-Biphenyl	1	0		47.5762	50	95		70	130
1.2.4.5-Tetrachlorobenzene	1	0		55.8307	50	112		70	130
Hexachlorocyclopentadiene	1	0		57.1641	50	114		70	130
2.4.6-Trichlorophenol	1	0		47.696	50	95		70	130
2.4.5-Trichlorophenol	1	0		49.4943	50	99		70	130
2-Chloronaphthalene	1	0		47.6022	50	95		70	130
1.4-Dimethylnaphthalene	1	0		47.9231	50	96		70	130
Diphenyl Ether	1	0		55.9521	50	112		70	130
2-Nitroaniline	1	0		52.0206	50	104		70	130
Acenaphthylene	1	0		53.5093	50	107		70	130
Dimethylphthalate	1	0		46.7056	50	93		70	130
2.6-Dinitrotoluene	1	0		47.3986	50	95		70	130
Acenaphthene	1	0		46.6834	50	93		70	130
3-Nitroaniline	1	0		53.1445	50	106		70	130
2.4-Dinitrophenol	1	0		54.5036	50	109		70	130
Dibenzofuran	1	0		45.963	50	92		70	130
2.4-Dinitrotoluene	1	0		49.843	50	100		70	130
4-Nitrophenol	1	0		49.6474	50	99		70	130
2.3.4.6-Tetrachlorophenol	1	0		47.4665	50	95		70	130
Fluorene	1	0		48.998	50	98		70	130
4-Chlorophenyl-phenylether	1	0		47.8547	50	96		70	130
Diethylphthalate	1	0		48.258	50	97		70	130
4-Nitroaniline	1	0		51.5684	50	103		70	130
Atrazine	1	0		59.5534	50	119		70	130
4.6-Dinitro-2-methylphenol	1	0		57.4402	50	115		70	130
n-Nitrosodiphenylamine	1	0		39.7838	50	80		70	130
1.2-Diphenylhydrazine	1	0		43.446	50	87		70	130
4-Bromophenyl-phenylether	1	0		47.0589	50	94		70	130
Hexachlorobenzene	1	0		46.0176	50	92		70	130
Pentachlorophenol	1	0		55.4877	50	111		70	130
Phenanthrene	1	0		45.99	50	92		70	130
Anthracene	1	0		47.1485	50	94		70	130
Carbazole	1	0		47.5309	50	95		70	130
Di-n-butylphthalate	1	0		49.8325	50	100		70	130
Fluoranthene	1	0		48.1539	50	96		70	130
Pyrene	1	0		47.2715	50	95		70	130
Benzidine	1	0		48.9345	50	98		30	150
Butylbenzylphthalate	1	0		49.7159	50	99		70	130
3.3'-Dichlorobenzidine	1	0		51.7171	50	103		50	150
Benzo(a)anthracene	1	0		47.2106	50	94		70	130
Chrysene	1	0		47.7436	50	95		70	130
bis(2-Ethylhexyl)phthalate	1	0		48.5563	50	97		70	130
Di-n-octylphthalate	1	0		52.0239	50	104		70	130
Benzo(b)fluoranthene	1	0		48.7825	50	98		70	130
Benzo(k)fluoranthene	1	0		51.0531	50	102		70	130
Benzo(a)pyrene	1	0		52.1784	50	104		70	130
Indeno(1.2.3-cd)pyrene	1	0		49.1172	50	98		70	130
Dibenzo(a.h)anthracene	1	0		49.4139	50	99		70	130
Benzo(g.h.i)perylene	1	0		50.4801	50	101		70	130

TxtDfile: 12M67049.D ICV FORM Date/Time: 05/18/23 13:15

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
1.4-Dioxane	1	0		5.7795	5	116		70	130
N-Nitrosodimethylamine	1	0		5.9625	5	119		70	130
Naphthalene	1	0		5.157	5	103		70	130
Acenaphthylene	1	0		6.0153	5	120		70	130
Acenaphthene	1	0		5.4192	5	108		70	130
Fluorene	1	0		5.6474	5	113		70	130
Hexachlorobenzene	1	0		5.0565	5	101		70	130
Pentachlorophenol	1	0		4.1862	5	84		70	130
Phenanthrene	1	0		5.157	5	103		70	130
Anthracene	1	0		5.4873	5	110		70	130
Fluoranthene	1	0		5.6859	5	114		70	130
Pyrene	1	0		4.7669	5	95		70	130
Benzo[a]anthracene	1	0		5.9298	5	119		70	130
Chrysene	1	0		4.4973	5	90		70	130
Benzo[b]fluoranthene	1	0		5.6615	5	113		70	130
Benzo[k]fluoranthene	1	0		5.0977	5	102		70	130
Benzo[a]pyrene	1	0		5.8537	5	117		70	130
Indeno[1,2,3-cd]pyrene	1	0		6.0261	5	121		70	130
Dibenz[a,h]anthracene	1	0		5.6672	5	113		70	130
Benzo[g,h,i]perylene	1	0		5.3041	5	106		70	130

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 5M124292.D **Instrument:** GCMS 5

Cont Calibration Date/Time 6/28/2023 3:10:00 P Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.35	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.39	49.94	50	**		1.060	1.059	0.13	
Pyridine	1	0		2.81	46.63	50	**		2.130	1.987	6.74	
N-Nitrosodimethylamine	1	0		2.76	48.56	50	**		1.613	1.567	2.88	
2-Fluorophenol	1	0	S	4.43	48.45	50	**		1.761	1.706	3.10	
Benzaldehyde	1	0		5.27	45.16	50	20	0.01	1.543	1.394	9.69	
Aniline	1	0		5.36	49.22	50	**		2.485	2.447	1.56	
Pentachloroethane	1	0		5.40	48.56	50	**	0.05	0.689	0.669	2.87	
bis(2-Chloroethyl)ether	1	0		5.43	45.87	50	20	0.7	1.941	1.781	8.27	
Phenol-d5	1	0	S	5.34	49.37	50	**		2.155	2.127	1.27	
Phenol	1	0		5.35	48.19	50	20	0.8	2.606	2.512	3.61	
2-Chlorophenol	1	0		5.46	48.20	50	20	0.8	1.891	1.822	3.61	
N-Decane	1	0		5.51	49.49	50	**	0.05	1.987	1.966	1.02	
1,3-Dichlorobenzene	1	0		5.59	47.30	50	**		2.174	2.057	5.39	
1,4-Dichlorobenzene-d4	1	0	I	5.65	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.66	48.83	50	20		1.572	1.535	2.34	
1,2-Dichlorobenzene	1	0		5.78	47.95	50	**		1.478	1.418	4.10	
Benzyl alcohol	1	0		5.76	48.90	50	**		0.871	0.852	2.20	
bis(2-chloroisopropyl)ether	1	0		5.88	49.63	50	20	0.01	1.616	1.604	0.74	
2-Methylphenol	1	0		5.85	49.29	50	20	0.7	1.200	1.183	1.42	
Acetophenone	1	0		5.98	54.62	50	20	0.01	1.758	1.921	9.24	
Hexachloroethane	1	0		6.06	48.29	50	20	0.3	0.559	0.540	3.42	
N-Nitroso-di-n-propylamine	1	0		5.98	51.10	50	20	0.5	0.911	0.931	2.20	
3&4-Methylphenol	1	0		5.98	51.72	50	20		1.260	1.303	3.45	
Naphthalene-d8	1	0	I	6.66	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.10	24.24	25	**		0.167	0.162	3.02	
Nitrobenzene	1	0		6.12	47.92	50	20	0.2	0.380	0.364	4.16	
Isophorone	1	0		6.30	49.42	50	20	0.4	0.683	0.675	1.15	
2-Nitrophenol	1	0		6.36	49.38	50	20	0.1	0.191	0.188	1.25	
2,4-Dimethylphenol	1	0		6.39	49.06	50	20	0.2	0.354	0.348	1.87	
Benzoic Acid	1	0		6.46	48.32	50	**		0.226	0.215	3.36	
bis(2-Chloroethoxy)methane	1	0		6.47	48.92	50	20	0.3	0.431	0.421	2.16	
2,4-Dichlorophenol	1	0		6.55	49.64	50	20	0.2	0.311	0.308	0.72	
1,2,4-Trichlorobenzene	1	0		6.61	47.94	50	**		0.363	0.348	4.13	
Naphthalene	1	0		6.67	47.32	50	20	0.7	1.151	1.089	5.35	
4-Chloroaniline	1	0		6.71	53.83	50	20	0.01	0.365	0.393	7.67	
Hexachlorobutadiene	1	0		6.76	47.77	50	20	0.01	0.208	0.198	4.47	
Caprolactam	1	0		6.98	55.08	50	20	0.01	0.097	0.107	10.16	
4-Chloro-3-methylphenol	1	0		7.07	48.90	50	20	0.2	0.286	0.279	2.20	
2-Methylnaphthalene	1	0		7.19	49.28	50	**	0.4	0.726	0.716	1.44	
1-Methylnaphthalene	1	0		7.27	48.79	50	**	0.4	0.678	0.661	2.42	
Methylnaphthalenes	1	0		7.19	98.79	50	**			1.385	97.59	
1,1'-Biphenyl	1	0		7.56	48.78	50	20	0.01	0.908	0.886	2.44	
Acenaphthene-d10	1	0	I	8.06	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.32	52.10	50	20	0.01	0.655	0.682	4.20	
Hexachlorocyclopentadiene	1	0		7.31	54.52	50	20	0.05	0.255	0.273	9.05	
2,4,6-Trichlorophenol	1	0		7.41	49.13	50	20	0.2	0.394	0.387	1.73	
2,4,5-Trichlorophenol	1	0		7.45	50.78	50	20	0.2	0.422	0.429	1.57	
2-Fluorobiphenyl	1	0	S	7.48	24.58	25	**		1.431	1.407	1.68	
2-Chloronaphthalene	1	0		7.58	47.17	50	20	0.8	1.225	1.155	5.67	
1,4-Dimethylnaphthalene	1	0		7.86	50.98	50	**		1.023	1.043	1.95	
Dimethylnaphthalenes	1	0		7.86	50.98	50	20			1.043	1.95	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 5M124292.D **Instrument:** GCMS 5

Cont Calibration Date/Time 6/28/2023 3:10:00 P Method: EPA 8270E

TxtCompd:	Co#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.65	52.83	50	**		0.849	0.897	5.67	
2-Nitroaniline	1	0		7.67	51.73	50	20	0.01	0.367	0.380	3.47	
Coumarin	1	0		7.85	49.82		**		0.495			
Acenaphthylene	1	0		7.94	48.80	50	20	0.9	1.713	1.672	2.41	
Dimethylphthalate	1	0		7.81	48.50	50	20	0.01	1.309	1.270	2.99	
2,6-Dinitrotoluene	1	0		7.87	50.65	50	20	0.2	0.293	0.297	1.31	
Acenaphthene	1	0		8.09	48.88	50	20	0.9	1.211	1.184	2.24	
3-Nitroaniline	1	0		8.02	53.74	50	20	0.01	0.291	0.313	7.48	
2,4-Dinitrophenol	1	0		8.11	55.45	50	20	0.2	0.136	0.146	10.90	
Dibenzofuran	1	0		8.24	47.46	50	20	0.8	1.780	1.690	5.08	
2,4-Dinitrotoluene	1	0		8.22	50.93	50	20	0.2	0.370	0.377	1.86	
4-Nitrophenol	1	0		8.15	51.66	50	20	0.01	0.203	0.210	3.31	
2,3,4,6-Tetrachlorophenol	1	0		8.35	49.48	50	20	0.01	0.343	0.339	1.04	
Fluorene	1	0		8.56	49.29	50	20	0.9	1.409	1.389	1.42	
4-Chlorophenyl-phenylether	1	0		8.55	47.89	50	20	0.4	0.701	0.672	4.21	
Diethylphthalate	1	0		8.43	49.09	50	20	0.01	1.248	1.225	1.83	
4-Nitroaniline	1	0		8.57	51.67	50	20	0.01	0.321	0.332	3.34	
Atrazine	1	0		9.19	55.14	50	20	0.01	0.354	0.390	10.29	
Phenanthrene-d10	1	0	I	9.50	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.60	52.72	50	20	0.01	0.109	0.112	5.44	
n-Nitrosodiphenylamine	1	0		8.66	49.77	50	20	0.01	0.626	0.624	0.47	
2,4,6-Tribromophenol	1	0	S	8.79	49.56	50	**		0.099	0.098	0.89	
1,2-Diphenylhydrazine	1	0		8.70	45.43	50	**		0.760	0.690	9.13	
4-Bromophenyl-phenylether	1	0		9.03	48.38	50	20	0.1	0.217	0.210	3.25	
Hexachlorobenzene	1	0		9.09	46.59	50	20	0.1	0.237	0.221	6.82	
N-Octadecane	1	0		9.36	52.02	50	**	0.05	0.327	0.340	4.03	
Pentachlorophenol	1	0		9.29	51.86	50	20	0.05	0.128	0.128	3.72	
Phenanthrene	1	0		9.53	49.39	50	20	0.7	1.102	1.088	1.22	
Anthracene	1	0		9.58	49.29	50	20	0.7	1.099	1.083	1.42	
Carbazole	1	0		9.75	49.95	50	20	0.01	1.014	1.013	0.10	
Di-n-butylphthalate	1	0		10.13	50.40	50	20	0.01	1.113	1.122	0.80	
Fluoranthene	1	0		10.85	50.63	50	20	0.6	1.199	1.214	1.26	
Chrysene-d12	1	0	I	12.54	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.11	51.66	50	20	0.6	1.353	1.398	3.33	
Benzidine	1	0		11.01	58.11	50	**		0.505	0.587	16.23	
Terphenyl-d14	1	0	S	11.30	24.50	25	**		0.750	0.735	2.00	
4,4'-DDE	1	0		11.23	50.72		**		0.279			
4,4'-DDD	1	0		11.63	52.20		**		0.489			
Butylbenzylphthalate	1	0		11.90	50.70	50	20	0.01	0.512	0.519	1.39	
4,4'-DDT	1	0		11.99	52.55		**		0.392			
3,3'-Dichlorobenzidine	1	0		12.51	50.76	50	20	0.01	0.368	0.373	1.51	
Benzo[a]anthracene	1	0		12.53	50.16	50	20	0.8	1.283	1.287	0.32	
Chrysene	1	0		12.57	49.72	50	20	0.7	1.206	1.199	0.57	
bis(2-Ethylhexyl)phthalate	1	0		12.59	50.47	50	20	0.01	0.724	0.731	0.94	
Perylene-d12	1	0	I	14.15	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.34	51.78	50	20	0.01	1.218	1.239	3.57	
Benzo[b]fluoranthene	1	0		13.74	52.37	50	20	0.7	1.219	1.277	4.74	
Benzo[k]fluoranthene	1	0		13.77	53.27	50	20	0.7	1.211	1.291	6.55	
Benzo[a]pyrene	1	0		14.09	50.93	50	20	0.7	1.070	1.090	1.87	
Indeno[1,2,3-cd]pyrene	1	0		15.38	50.71	50	20	0.5	1.335	1.354	1.42	
Dibenzo[a,h]anthracene	1	0		15.40	49.92	50	20	0.4	1.097	1.095	0.17	
Benzo[g,h,i]perylene	1	0		15.73	50.29	50	20	0.5	1.077	1.083	0.58	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 5M124292.D **Instrument:** GCMS 5

Cont Calibration Date/Time 6/28/2023 3:10:00 P Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.701	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		1.023	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124292.D Sam Mult : 1 Vial# : 2 Qt On : 06/28/23 15:27
Acq On : 06/28/23 15:10 Misc : A,BNA Qt Upd On: 06/25/23 09:20

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-28-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.355	96	53734	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.646	152	73438	40.00	ng	0.00
31) Naphthalene-d8	6.655	136	255444	40.00	ng	0.00
50) Acenaphthene-d10	8.060	164	139607	40.00	ng	0.00
77) Phenanthrene-d10	9.503	188	255045	40.00	ng	0.00
91) Chrysene-d12	12.542	240	234012	40.00	ng	0.00
103) Perylene-d12	14.145	264	225561	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.433	112	114600	48.45	ng	0.00
Spiked Amount 100.000			Recovery = 48.45%			
16) Phenol-d5	5.336	99	142882	49.37	ng	0.00
Spiked Amount 100.000			Recovery = 49.37%			
32) Nitrobenzene-d5	6.100	128	25896	24.24	ng	0.00
Spiked Amount 50.000			Recovery = 48.48%			
55) 2-Fluorobiphenyl	7.478	172	122786	24.58	ng	0.00
Spiked Amount 50.000			Recovery = 49.16%			
80) 2,4,6-Tribromophenol	8.787	330	31300	49.56	ng	0.00
Spiked Amount 100.000			Recovery = 49.56%			
94) Terphenyl-d14	11.303	244	107492	24.50	ng	0.00
Spiked Amount 50.000			Recovery = 49.00%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.387	88	71109	49.9368	ng	99
9) Pyridine	2.814	79	133455	46.6301	ng	68
10) N-Nitrosodimethylamine	2.755	74	105231	48.5589	ng	74
12) Benzaldehyde	5.266	77	93616	45.1558	ng	78
13) Aniline	5.362	93	164333	49.2182	ng	60
14) Pentachloroethane	5.400	117	44930	48.5640	ng	73
15) bis(2-Chloroethyl)ether	5.427	93	119594	45.8671	ng	80
17) Phenol	5.346	94	168736	48.1946	ng	81
18) 2-Chlorophenol	5.464	128	122411	48.1973	ng	79
19) N-Decane	5.507	57	132077	49.4922	ng	99
20) 1,3-Dichlorobenzene	5.592	146	138134	47.3036	ng	99
22) 1,4-Dichlorobenzene	5.656	146	140943	48.8311	ng	97
23) 1,2-Dichlorobenzene	5.779	146	130143	47.9521	ng	98
24) Benzyl alcohol	5.763	108	78182	48.8984	ng	70
25) bis(2-chloroisopropyl)...	5.875	45	147210	49.6281	ng	99
26) 2-Methylphenol	5.854	108	108628	49.2883	ng	97
27) Acetophenone	5.977	105	176313	54.6193	ng	72
28) Hexachloroethane	6.057	117	49561	48.2917	ng	90
29) N-Nitroso-di-n-propyla...	5.977	70	85456	51.1001	ng	73
30) 3&4-Methylphenol	5.982	108	119625	51.7233	ng	96
33) Nitrobenzene	6.116	77	116330	47.9217	ng	78
34) Isophorone	6.303	82	215652	49.4244	ng	84
35) 2-Nitrophenol	6.361	139	60172	49.3763	ng	84
36) 2,4-Dimethylphenol	6.394	107	110959	49.0641	ng	91
37) Benzoic Acid	6.463	105	68512	48.3200	ng	86
38) bis(2-Chloroethoxy)met...	6.468	93	134569	48.9212	ng	96
39) 2,4-Dichlorophenol	6.548	162	98469	49.6406	ng	83
40) 1,2,4-Trichlorobenzene	6.607	180	111101	47.9360	ng	97
41) Naphthalene	6.671	128	347828	47.3226	ng	99
42) 4-Chloroaniline	6.709	127	125539	53.8332	ng	93
43) Hexachlorobutadiene	6.757	225	63307	47.7674	ng	97
44) Caprolactam	6.981	113	34265	55.0806	ng	70
45) 4-Chloro-3-methylphenol	7.072	107	89190	48.9012	ng	76
46) 2-Methylnaphthalene	7.195	142	228474	49.2793	ng	99
47) 1-Methylnaphthalene	7.275	142	211216	48.7891	ng	92
48) Methylnaphthalenes (To...	7.195	142	442301m	98.7928	ng	
49) 1,1'-Biphenyl	7.563	154	282773	48.7813	ng	95
51) 1,2,4,5-Tetrachloroben...	7.323	216	119065	52.1018	ng	98
52) Hexachlorocyclopentadiene	7.312	237	47579	54.5231	ng	100
53) 2,4,6-Trichlorophenol	7.414	196	67539m	49.1342	ng	
54) 2,4,5-Trichlorophenol	7.446	196	74857m	50.7831	ng	
56) 2-Chloronaphthalene	7.585	162	201639	47.1675	ng	91
57) 1,4-Dimethylnaphthalene	7.863	156	182015	50.9770	ng	86
58) Dimethylnaphthalenes (...	7.863	156	182015	50.9770	ng	86
59) Diphenyl Ether	7.649	170	156561	52.8331	ng	75
60) 2-Nitroaniline	7.670	65	66267	51.7345	ng	46
61) Coumarin	7.852	146	86118	49.8154	ng	97
62) Acenaphthylene	7.937	152	291723	48.7953	ng	98
63) Dimethylphthalate	7.809	163	221665	48.5038	ng	98
64) 2,6-Dinitrotoluene	7.868	165	51841	50.6534	ng	62
65) Acenaphthene	8.087	153	206545	48.8814	ng	95

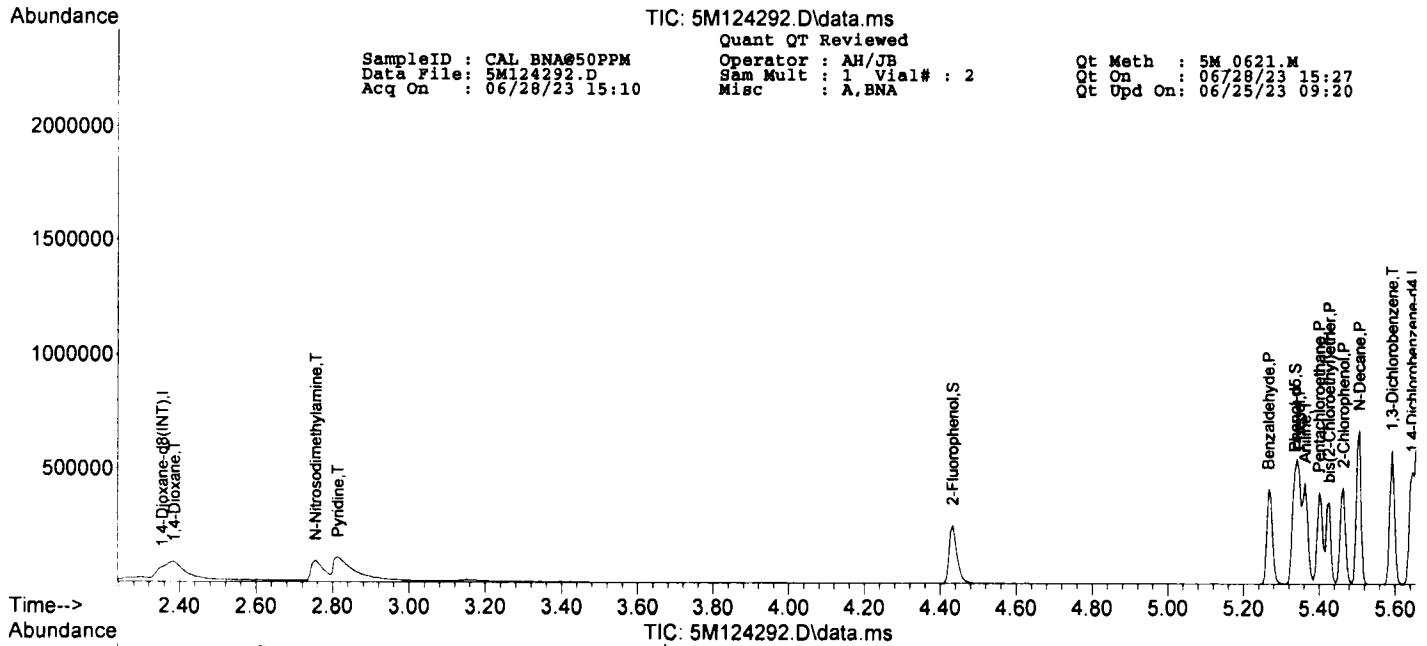
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124292.D Sam Mult : 1 Vial# : 2 Qt On : 06/28/23 15:27
Acq On : 06/28/23 15:10 Misc : A,BNA Qt Upd On: 06/25/23 09:20

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-28-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) 3-Nitroaniline	8.018	138	54594	53.7383	ng	73
67) 2,4-Dinitrophenol	8.108	184	25468	55.4481	ng	28
68) Dibenzofuran	8.242	168	294889	47.4605	ng	81
69) 2,4-Dinitrotoluene	8.221	165	65723	50.9293	ng	62
70) 4-Nitrophenol	8.151	65	36617	51.6562	ng	89
71) 2,3,4,6-Tetrachlorophenol	8.349	232	59219m	49.4816	ng	
72) Fluorene	8.557	166	242428	49.2895	ng	98
73) 4-Chlorophenyl-phenyle...	8.552	204	117184	47.8930	ng	78
74) Diethylphthalate	8.434	149	213791	49.0851	ng	96
75) 4-Nitroaniline	8.573	138	57957	51.6711	ng	75
76) Atrazine	9.193	200	68098	55.1438	ng	94
78) 4,6-Dinitro-2-methylph...	8.600	198	35561	52.7183	ng	76
79) n-Nitrosodiphenylamine	8.664	169	198781	49.7662	ng	99
81) 1,2-Diphenylhydrazine	8.701	77	220073	45.4331	ng	87
82) 4-Bromophenyl-phenylether	9.033	248	67080	48.3750	ng	78
83) Hexachlorobenzene	9.091	284	70377	46.5913	ng	66
84) N-Octadecane	9.364	57	108332	52.0163	ng	77
85) Pentachlorophenol	9.294	266	40778	51.8594	ng	99
86) Phenanthrene	9.529	178	346903	49.3901	ng	100
87) Anthracene	9.583	178	345356	49.2893	ng	99
88) Carbazole	9.754	167	322946	49.9482	ng	97
89) Di-n-butylphthalate	10.133	149	357656	50.4004	ng	97
90) Fluoranthene	10.849	202	386980	50.6281	ng	90
92) Pyrene	11.111	202	408846	51.6636	ng	88
93) Benzidine	11.015	184	171647	58.1146	ng	85
95) 4,4'-DDE	11.234	246	82661	50.7248	ng	95
96) 4,4'-DDD	11.634	235	149346	52.2049	ng	97
97) Butylbenzylphthalate	11.896	149	151807	50.6956	ng	69
98) 4,4'-DDT	11.992	235	120618	52.5463	ng	99
99) 3,3'-Dichlorobenzidine	12.510	252	109235	50.7568	ng	95
100) Benzo[a]anthracene	12.532	228	376400m	50.1584	ng	
101) Chrysene	12.574	228	350664	49.7169	ng	100
102) bis(2-Ethylhexyl)phtha...	12.585	149	213747	50.4720	ng	93
104) Di-n-octylphthalate	13.338	149	349464	51.7847	ng	99
105) Benzo[b]fluoranthene	13.744	252	360031	52.3716	ng	96
106) Benzo[k]fluoranthene	13.771	252	363888m	53.2741	ng	
107) Benzo[a]pyrene	14.086	252	307216	50.9331	ng	91
108) Indeno[1,2,3-cd]pyrene	15.379	276	381675	50.7100	ng	80
109) Dibenzo[a,h]anthracene	15.401	278	308785	49.9169	ng	94
110) Benzo[g,h,i]perylene	15.732	276	305441	50.2880	ng	75

(#) = qualifier out of range (m) = manual integration (+) = signals summed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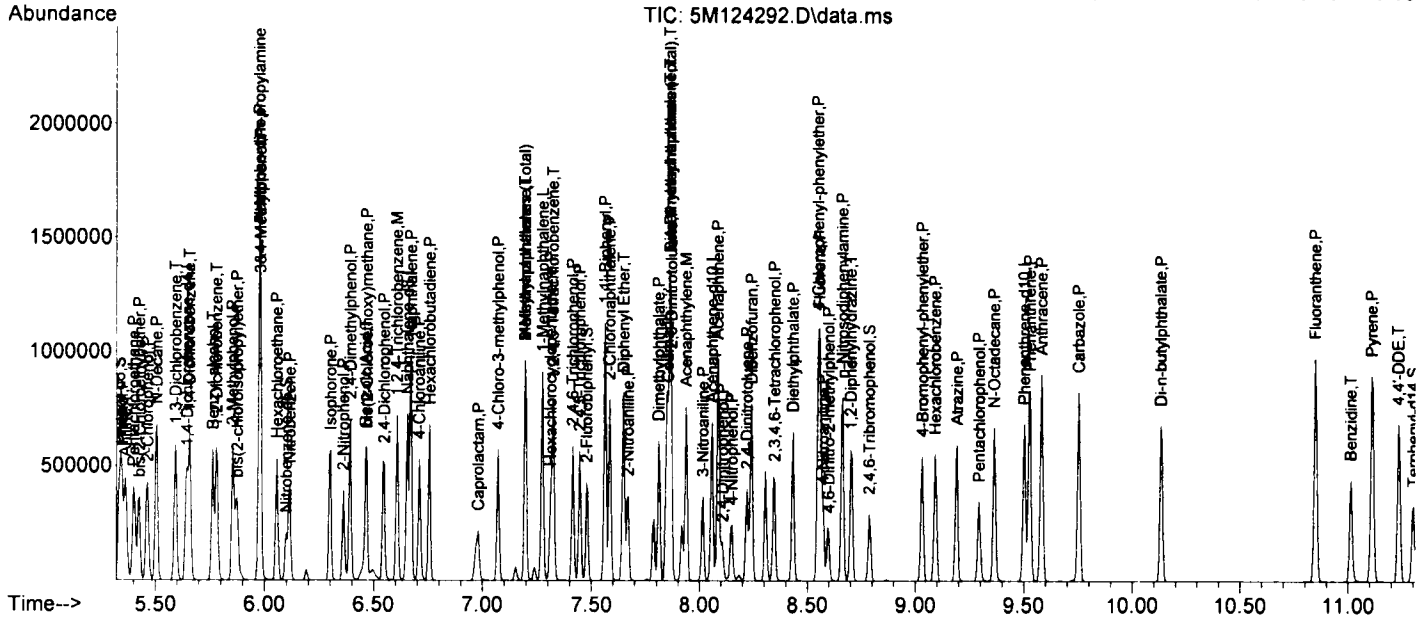
Quant QT Reviewed
SampleID : CAL BNA@50PPM
Data File: 5M124292.D
Acq On : 06/28/23 15:10
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 5M_0621.M
Qt On : 06/28/23 15:27
Qt Upd On: 06/25/23 09:20
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
1,3-Dichlorobenzene,T
Time-->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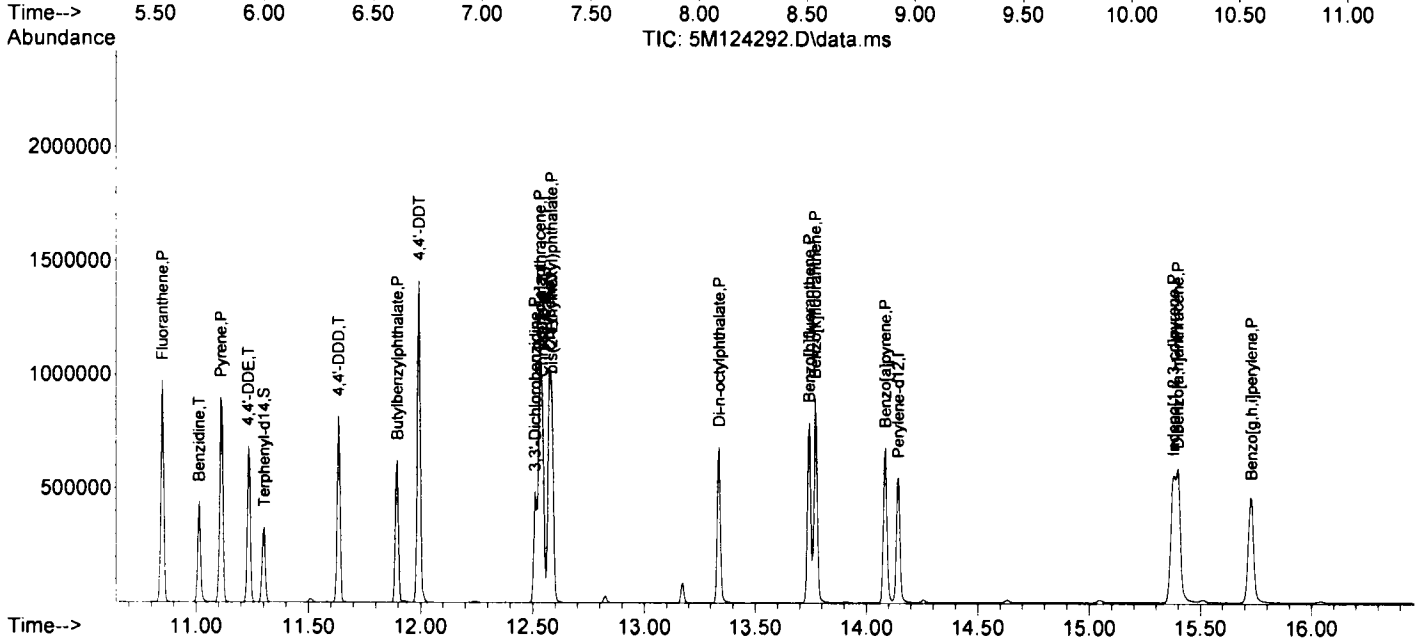
4-Chloro-3-methylphenol,P
Isophorone,P
2-Nitrophenol,P
2,4-Dichlorophenol,P
Hexachlorobutadiene,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Time-->


Abundance
TIC: 5M124292.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo(b)fluoranthene,P
Benzo(k)fluoranthene,P
Benzo(a)pyrene,P
Perylene-d12,I
Indeno(1,2,3-cd)pyrene,P
Dibenz(a,h)anthracene,P
Benzo(g,h,i)perylene,P
Time-->

Form7

Continuing Calibration

Calibration Name: CAL SIM@5PPM **Data File:** 12M67376.D **Instrument:** GCMS 12Sm

Cont Calibration Date/Time 6/28/2023 8:21:00 A Method: EPA8270E SIM

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.54	0.40	0.4000	**			0.000	0.00	
1,4-Dioxane	1	0		2.56	4.94	5	20		0.978	0.966	1.22	
1,4-Dichlorobenzene-d4	1	0	I	5.78	0.40	0.4000	**			0.000	0.00	
N-Nitrosodimethylamine	1	0		2.96	5.99	5	20	0.01	1.034	1.239	19.85	
bis(2-Chloroethyl)ether	1	0		5.55	5.15		**		1.261			
2-Methylphenol	1	0		5.98	5.92	5	20		0.938	1.110	18.31	
Hexachloroethane	1	0		6.19	5.42	5	20	0.3	0.453	0.491	8.31	
3&4-Methylphenol	1	0		6.10	5.88	5	20		0.960	1.129	17.62	
Naphthalene-d8	1	0	I	6.79	0.40	0.4000	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.22	28.27		**		0.215			
2,4-Dimethylphenol	1	0		6.52	3.01	5	20		0.204	0.123	39.85	C1
Naphthalene	1	0		6.80	4.92	5	20	0.7	0.986	0.970	1.63	
Hexachlorobutadiene	1	0		6.89	4.85	5	20	0.01	0.190	0.185	2.92	
Acenaphthene-d10	1	0	I	8.21	0.40	0.4000	**			0.000	0.00	
Hexachlorocyclopentadiene	1	0		7.46	4.16	5	20		0.188	0.184	16.83	
2,4,5-Trichlorophenol	1	0		7.58	5.05		**		0.248			
2-Fluorobiphenyl	1	0	S	7.62	23.85		**		0.990			
Acenaphthylene	1	0		8.08	5.68	5	20	0.9	1.504	1.708	13.52	
Acenaphthene	1	0		8.23	4.96	5	20	0.9	1.045	1.036	0.79	
Dibenzofuran	1	0		8.39	4.46	5	20		1.490	1.328	10.89	
Fluorene	1	0		8.71	5.39	5	20	0.9	0.922	0.994	7.73	
Phenanthrene-d10	1	0	I	9.66	0.40	0.4000	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.75	4.62	5	20	0.01	0.056	0.066	7.68	
1,2-Diphenylhydrazine	1	0		8.85	6.02	5	20		0.392	0.471	20.31	
Hexachlorobenzene	1	0		9.26	4.86	5	20	0.1	0.188	0.183	2.72	
Pentachlorophenol	1	0		9.45	4.84	5	20	0.05	0.072	0.096	3.26	
Phenanthrene	1	0		9.68	4.92	5	20	0.7	1.009	0.994	1.52	
Anthracene	1	0		9.74	5.29	5	20	0.7	0.832	0.881	5.87	
Carbazole	1	0		9.91	5.56	5	20	0.01	0.688	0.765	11.25	
Fluoranthene	1	0		11.02	5.74	5	20	0.6	0.977	1.123	14.87	
Chrysene-d12	1	0	I	12.72	0.40	0.4000	**			0.000	0.00	
Pyrene	1	0		11.28	4.27	5	20	0.6	2.308	1.970	14.65	
Terphenyl-d14	1	0	S	11.47	21.03		**		1.155			
Benzo[a]anthracene	1	0		12.70	5.46	5	20	0.8	1.225	1.337	9.16	
Chrysene	1	0		12.74	4.09	5	20	0.7	1.525	1.246	18.29	
Perylene-d12	1	0	I	14.34	0.40	0.4000	**			0.000	0.00	
Benzo[b]fluoranthene	1	0		13.92	4.90	5	20	0.7	1.665	1.633	1.94	
Benzo[k]fluoranthene	1	0		13.95	4.63	5	20	0.7	1.793	1.659	7.48	
Benzo[a]pyrene	1	0		14.27	5.52	5	20	0.7	1.386	1.531	10.42	
Indeno[1,2,3-cd]pyrene	1	0		15.62	5.33	5	20	0.5	1.629	1.737	6.61	
Dibenzo[a,h]anthracene	1	0		15.64	5.06	5	20	0.4	1.316	1.333	1.30	
Benzo[g,h,i]perylene	1	0		15.98	4.81	5	20	0.5	1.508	1.451	3.78	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

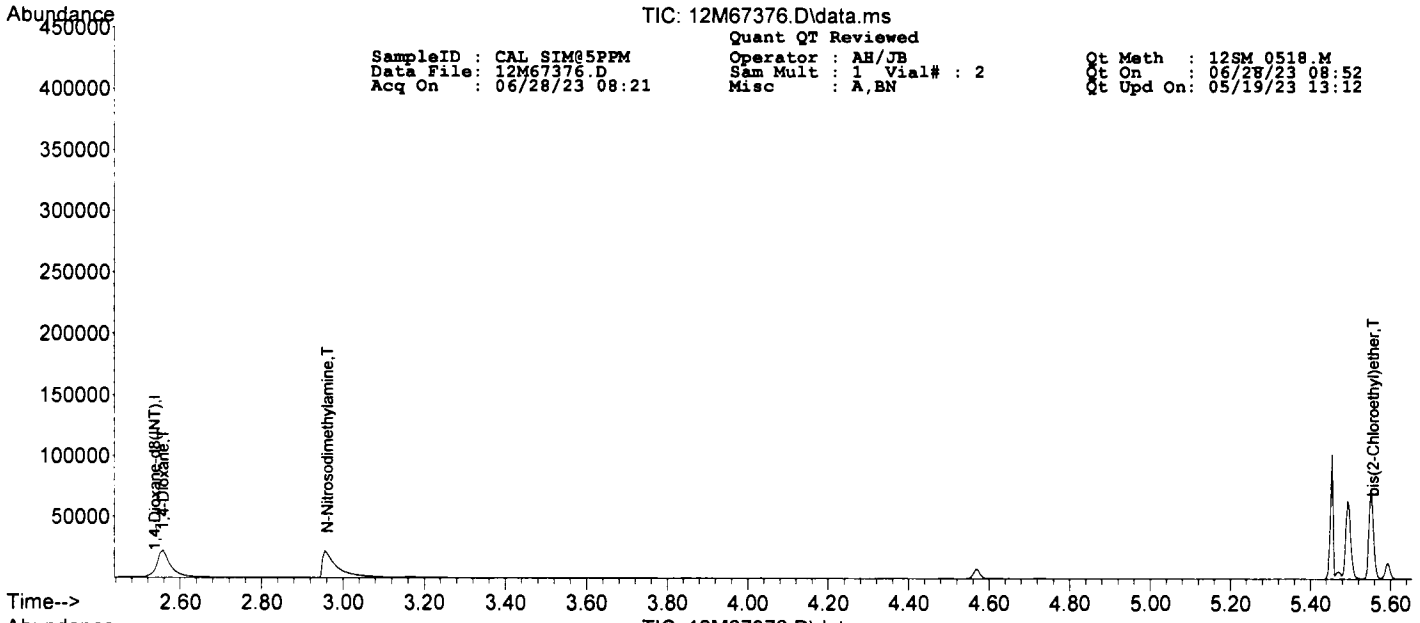
Quantitation Report (QT Reviewed)

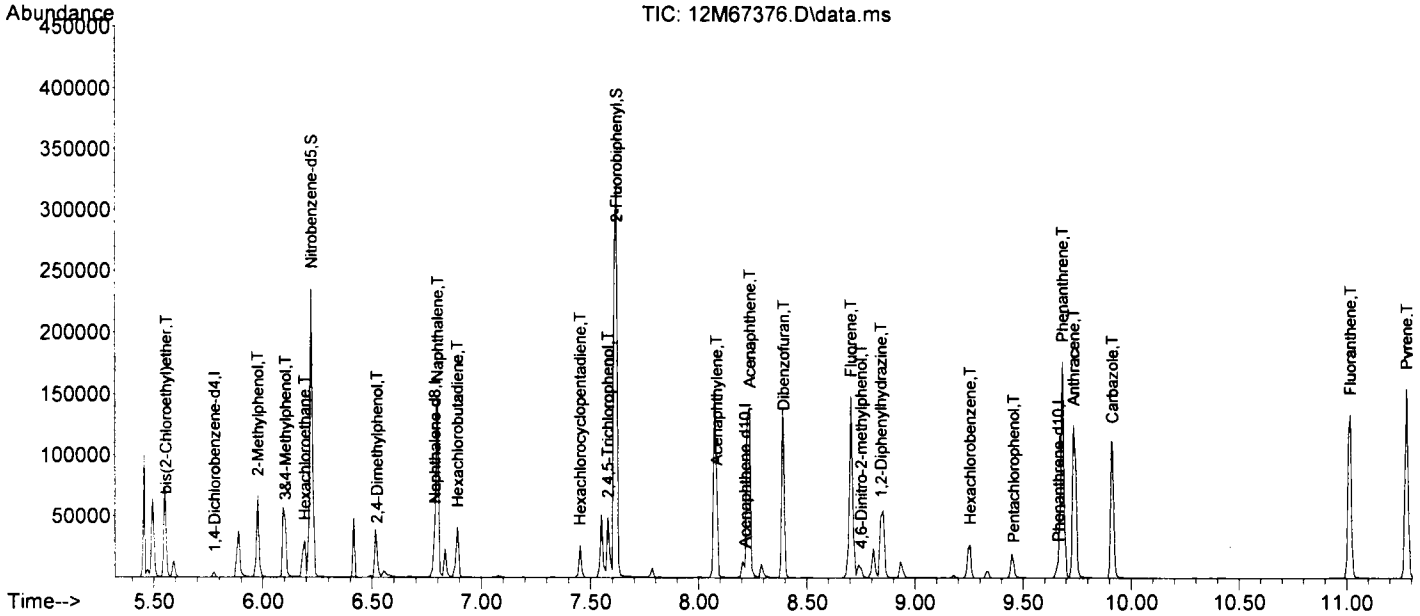
SampleID : CAL SIM@5PPM Operator : AH/JB Qt Meth : 12SM_0518.M
Data File: 12M67376.D Sam Mult : 1 Vial# : 2 Qt On : 06/28/23 08:52
Acq On : 06/28/23 08:21 Misc : A,BN Qt Upd On: 05/19/23 13:12

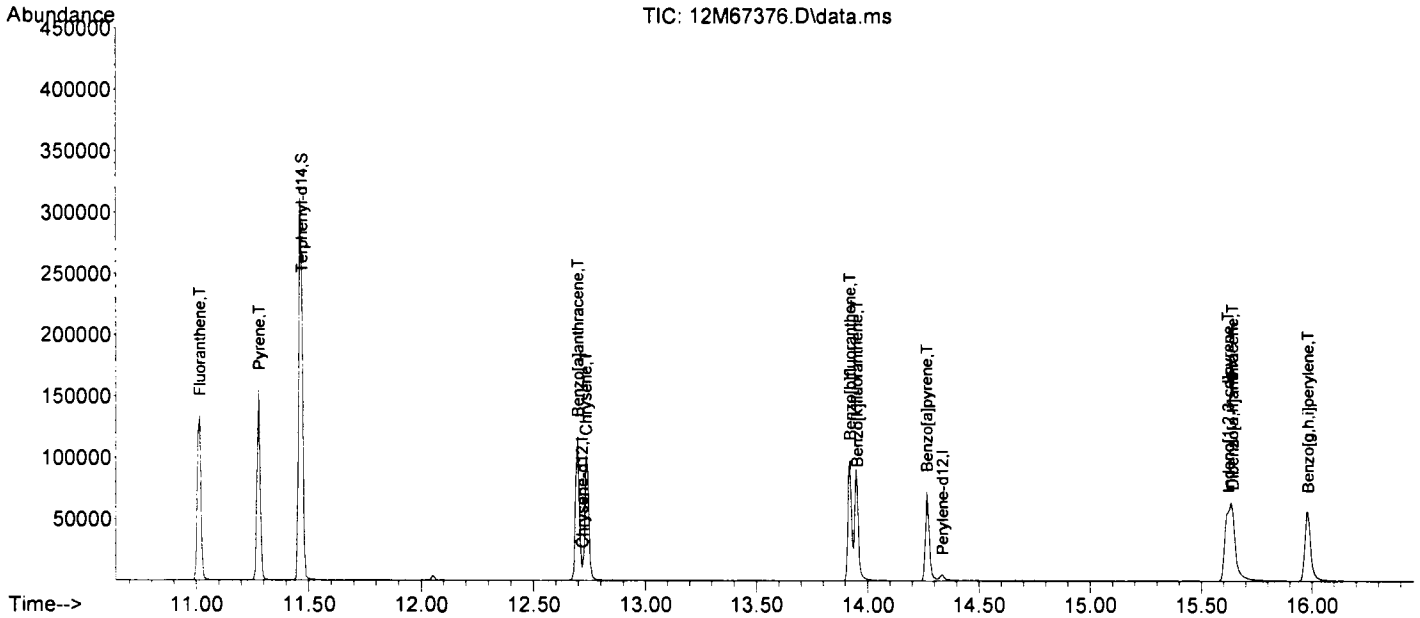
Data Path : G:\GcMsData\2023\GCMS_12SM\Data\06-28-23\
Qt Path : G:\GCMSDATA\2023\GCMS_12SM\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.536	96	22974	0.40	ng	-0.01
3) 1,4-Dichlorobenzene-d4	5.778	152	21297	0.40	ng	0.00
9) Naphthalene-d8	6.788	136	93517	0.40	ng	0.00
14) Acenaphthene-d10	8.208	164	53184	0.40	ng	0.00
22) Phenanthrene-d10	9.665	188	99939	0.40	ng	0.00
31) Chrysene-d12	12.716	240	55599	0.40	ng	0.00
36) Perylene-d12	14.337	264	38639	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.223	82	1420068	28.27	ng	0.00
Spiked Amount 50.000			Recovery =	56.54%		
17) 2-Fluorobiphenyl	7.619	172	2737168	23.85	ng	0.00
Spiked Amount 50.000			Recovery =	47.70%		
33) Terphenyl-d14	11.469	244	2817943	21.03	ng	0.00
Spiked Amount 50.000			Recovery =	42.06%		
Target Compounds						Qvalue
2) 1,4-Dioxane	2.561	88	277477	4.9389	ng	87
4) N-Nitrosodimethylamine	2.960	74	329842	5.9925	ng	92
5) bis(2-Chloroethyl)ether	5.555	93	345633	5.1471	ng	83
6) 2-Methylphenol	5.979	108	295447	5.9157	ng	93
7) Hexachloroethane	6.194	201	130746	5.4155	ng	60
8) 3&4-Methylphenol	6.102	108	300602	5.8812	ng	99
11) 2,4-Dimethylphenol	6.520	107	143288	3.0076	ng	39
12) Naphthalene	6.800	128	1133607	4.9186	ng	87
13) Hexachlorobutadiene	6.894	225	216102	4.8541	ng	57
15) Hexachlorocyclopentadiene	7.456	237	122304	4.1585	ng	95
16) 2,4,5-Trichlorophenol	7.584	196	219016	5.0525	ng	100
18) Acenaphthylene	8.079	152	1135329	5.6762	ng	94
19) Acenaphthene	8.232	153	688969	4.9606	ng	98
20) Dibenzofuran	8.392	168	882562	4.4557	ng	93
21) Fluorene	8.708	166	660658	5.3867	ng	87
23) 4,6-Dinitro-2-methylph...	8.751	198	82640	4.6160	ng	86
24) 1,2-Diphenylhydrazine	8.847	77	588638	6.0155	ng	80
25) Hexachlorobenzene	9.255	284	228818	4.8640	ng	98
26) Pentachlorophenol	9.452	266	119622	4.8372	ng	92
27) Phenanthrene	9.685	178	1241325	4.9240	ng	96
28) Anthracene	9.738	178	1100292	5.2934	ng	93
29) Carbazole	9.914	167	956000	5.5625	ng	97
30) Fluoranthene	11.017	202	1402732	5.7437	ng	92
32) Pyrene	11.281	202	1369048	4.2677	ng	93
34) Benzo[a]anthracene	12.700	228	929336m	5.4578	ng	
35) Chrysene	12.736	228	865703m	4.0853	ng	
37) Benzo[b]fluoranthene	13.922	252	788621	4.9031	ng	94
38) Benzo[k]fluoranthene	13.952	252	801303	4.6259	ng	93
39) Benzo[a]pyrene	14.271	252	739349	5.5210	ng	97
40) Indeno[1,2,3-cd]pyrene	15.620	276	839004	5.3306	ng	100
41) Dibenzo[a,h]anthracene	15.643	278	643673	5.0649	ng	99
42) Benzo[g,h,i]perylene	15.983	276	700938	4.8108	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 12M67376.D\data.ms
Quant QT Reviewed
SampleID : CAL SIM@5PPM
Data File: 12M67376.D
Acq On : 06/28/23 08:21
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BN
Qt Meth : 12SM_0518.M
Qt On : 06/28/23 08:52
Qt Upd On: 05/19/23 13:12
Abundance
Time-->


TIC: 12M67376.D\data.ms
Abundance
Time-->


TIC: 12M67376.D\data.ms
Abundance
Time-->

GC/MS Base Neutral/Acid Extractable Data
Raw QC Data

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 5
Data File: 5M124255.D
Analysis Date: 06/21/23 11:53
Method: EPA 8270E

Tune Scan/Time Range: Scan 1414

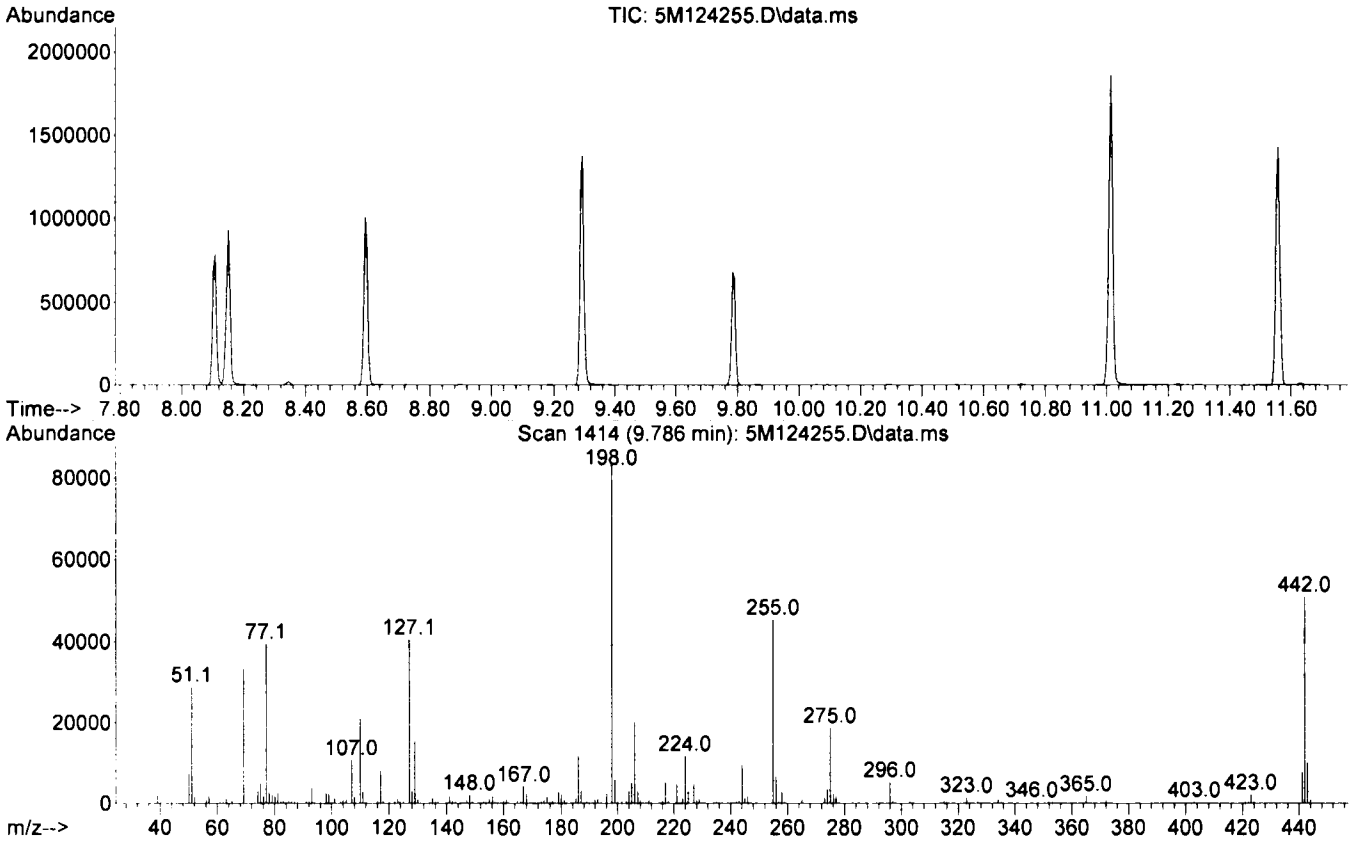
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	34.5	28968	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.9	33440	PASS
70	69	0.00	2	0.5	168	PASS
127	198	40	60	48.3	40536	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	83904	PASS
199	198	5	9	7.1	5926	PASS
275	198	10	30	22.4	18760	PASS
365	198	1	100	2.2	1844	PASS
441	443	0.01	100	76.2	7695	PASS
442	198	40	100	60.7	50920	PASS
443	442	17	23	19.8	10097	PASS

Data File	Sample Number	Analysis Date:
5M124256.D	CAL BNA@2PPM	06/21/23 12:17
5M124257.D	CAL BNA@10PPM	06/21/23 12:41
5M124258.D	CAL BNA@196PP	06/21/23 13:04
5M124259.D	CAL BNA@160PP	06/21/23 13:28
5M124260.D	CAL BNA@120PP	06/21/23 13:52
5M124261.D	CAL BNA@80PPM	06/21/23 14:16
5M124262.D	CAL BNA@20PPM	06/21/23 14:39
5M124263.D	CAL BNA@0.5PP	06/21/23 15:03
5M124264.D	CAL BNA@50PPM	06/21/23 15:27
5M124265.D	ICV BNA@50PPM	06/21/23 15:55

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-21-23\
Data File : 5M124255.D
Acq On : 21 Jun 2023 11:53
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2023\GCMS_5\METHODQT\5M_0619.M
Title : @GCMS_5,mg,625,8270
Last Update : Mon Jun 19 15:30:03 2023



Spectrum Information: Scan 1414

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	34.5	28968	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	39.9	33440	PASS
70	69	0.00	2	0.5	168	PASS
127	198	40	60	48.3	40536	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	83904	PASS
199	198	5	9	7.1	5926	PASS
275	198	10	30	22.4	18760	PASS
365	198	1	100	2.2	1844	PASS
441	443	0.01	100	76.2	7695	PASS
442	198	40	100	60.7	50920	PASS
443	442	17	23	19.8	10097	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 5
Data File: 5M124291.D
Analysis Date: 06/28/23 14:46
Method: EPA 8270E

Tune Scan/Time Range: Scan 1415

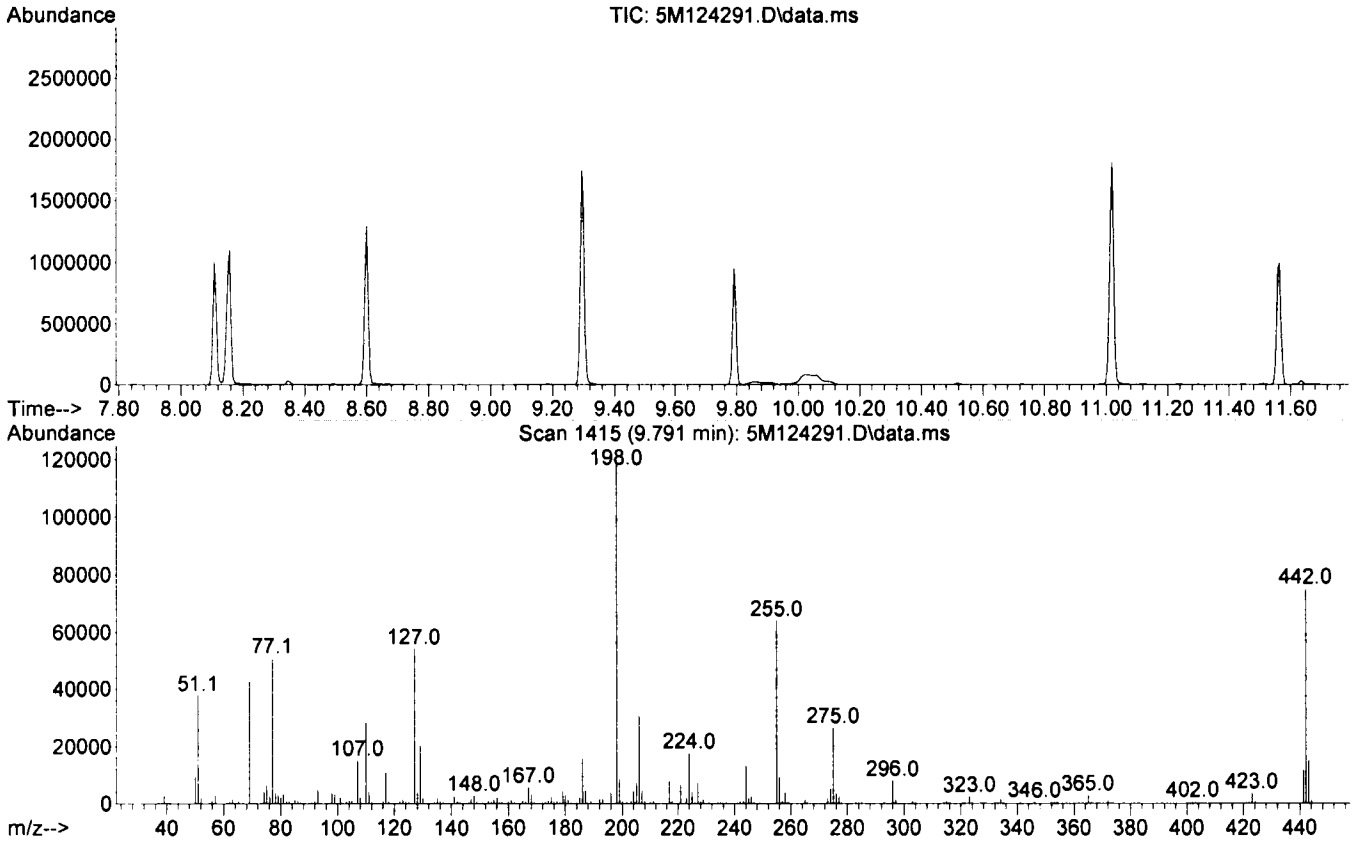
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	31.8	37888	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	35.9	42832	PASS
70	69	0.00	2	0.6	242	PASS
127	198	40	60	45.6	54272	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	119144	PASS
199	198	5	9	7.1	8491	PASS
275	198	10	30	22.2	26456	PASS
365	198	1	100	2.4	2869	PASS
441	443	0.01	100	77.4	11626	PASS
442	198	40	100	63.0	75104	PASS
443	442	17	23	20.0	15023	PASS

Data File	Sample Number	Analysis Date:
5M124292.D	CAL BNA@50PPM	06/28/23 15:10
5M124293.D	WMB109448(MS)	06/28/23 15:34
5M124294.D	WMB109448	06/28/23 15:58
5M124295.D	MDL-3 (AQ)	06/28/23 16:22
5M124296.D	OMB109445(MS)	06/28/23 17:13
5M124297.D	OMB109445	06/28/23 17:37
5M124298.D	AD38798-002	06/28/23 18:01
5M124299.D	AD38798-004(MS:	06/28/23 18:25
5M124300.D	AD38798-005(MSD	06/28/23 18:49
5M124301.D	AD38798-001	06/28/23 19:13
5M124302.D	AD38798-003	06/28/23 19:38
5M124303.D	AD38798-006	06/28/23 20:02
5M124304.D	AD38798-007	06/28/23 20:25
5M124305.D	AD38818-023	06/28/23 20:49

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-28-23\
Data File : 5M124291.D
Acq On : 28 Jun 2023 14:46
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e

Method : G:\GCMSDATA\2023\GCMS_12SM\MethodQt\12SM_0518.M
Title : @GCMS_12Sm,M:8270SIM
Last Update : Thu May 18 13:19:20 2023



Spectrum Information: Scan 1415

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	31.8	37888	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	35.9	42832	PASS
70	69	0.00	2	0.6	242	PASS
127	198	40	60	45.6	54272	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	119144	PASS
199	198	5	9	7.1	8491	PASS
275	198	10	30	22.2	26456	PASS
365	198	1	100	2.4	2869	PASS
441	443	0.01	100	77.4	11626	PASS
442	198	40	100	63.0	75104	PASS
443	442	17	23	20.0	15023	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 12Sm
Data File: 12M67038.D
Analysis Date: 05/18/23 08:59
Method: EPA8270E SIM

Tune Scan/Time Range: Average of 9.941 to 9.946 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	39.6	51320	PASS
68	69	0.00	2	1.7	942	PASS
69	198	0.00	100	41.6	53848	PASS
70	69	0.00	2	0.5	262	PASS
127	198	40	60	51.5	66688	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	129436	PASS
199	198	5	9	6.9	8957	PASS
275	198	10	30	20.9	27024	PASS
365	198	1	100	2.2	2891	PASS
441	443	0.01	100	68.2	9251	PASS
442	198	40	100	50.6	65508	PASS
443	442	17	23	20.7	13559	PASS

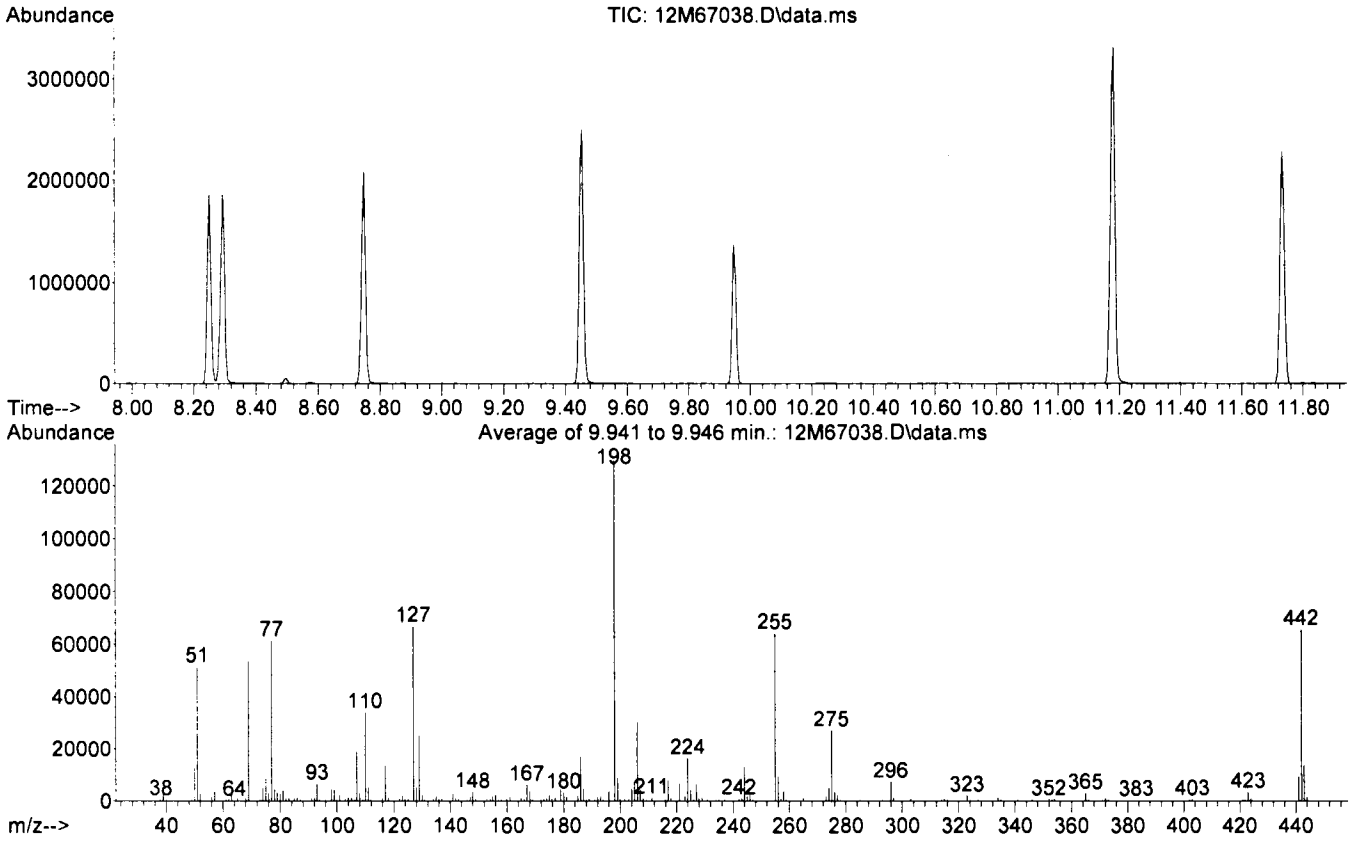
Data File	Sample Number	Analysis Date:
12M67039.D	CAL SIM@5PPM	05/18/23 09:21
12M67040.D	CAL SIM@5PPM	05/18/23 09:55
12M67041.D	CAL SIM@0.02PP	05/18/23 10:22
12M67042.D	CAL SIM@0.1PPM	05/18/23 10:43
12M67043.D	CAL SIM@0.2PPM	05/18/23 11:05
12M67044.D	CAL SIM@0.5PPM	05/18/23 11:27
12M67045.D	CAL SIM@1PPM	05/18/23 11:49
12M67046.D	CAL SIM@10PPM	05/18/23 12:10
12M67047.D	CAL SIM@19.6PP	05/18/23 12:32
12M67048.D	CAL SIM@5PPM	05/18/23 12:53
12M67049.D	ICV SIM@5PPM	05/18/23 13:15
12M67050.D	AD37540-007	05/18/23 14:03
12M67051.D	AD37730-018	05/18/23 14:24
12M67052.D	AD37730-018(3X)	05/18/23 14:46
12M67053.D	SMB107419	05/18/23 15:07
12M67054.D	SMB107512	05/18/23 15:28
12M67055.D	SIM MDL(S)-3	05/18/23 15:50
12M67056.D	SIM MDL(AQ)-3	05/18/23 16:11

DFTPP

Data Path : G:\GcMsData\2023\GCMS_12SM\Data\05-18-23\
Data File : 12M67038.D
Acq On : 18 May 2023 8:59
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BN
ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e

Method : G:\GCMSDATA\2023\GCMS_12SM\MethodQt\12SM_0405.M
Title : @GCMS_12Sm,M:8270SIM
Last Update : Wed Apr 05 13:21:54 2023



Spectrum Information: Average of 9.941 to 9.946 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.6	51320	PASS
68	69	0.00	2	1.7	942	PASS
69	198	0.00	100	41.6	53848	PASS
70	69	0.00	2	0.5	262	PASS
127	198	40	60	51.5	66688	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	129436	PASS
199	198	5	9	6.9	8957	PASS
275	198	10	30	20.9	27024	PASS
365	198	1	100	2.2	2891	PASS
441	443	0.01	100	68.2	9251	PASS
442	198	40	100	50.6	65508	PASS
443	442	17	23	20.7	13559	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 12Sm
Data File: 12M67375.D
Analysis Date: 06/28/23 07:55
Method: EPA8270E SIM

Tune Scan/Time Range: Scan 1433

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	31.6	85032	PASS
68	69	0.00	2	1.7	1579	PASS
69	198	0.00	100	34.3	92448	PASS
70	69	0.00	2	0.6	515	PASS
127	198	40	60	46.2	124304	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	269248	PASS
199	198	5	9	6.8	18240	PASS
275	198	10	30	24.4	65744	PASS
365	198	1	100	2.9	7902	PASS
441	443	0.01	100	80.5	33208	PASS
442	198	40	100	79.4	213760	PASS
443	442	17	23	19.3	41272	PASS

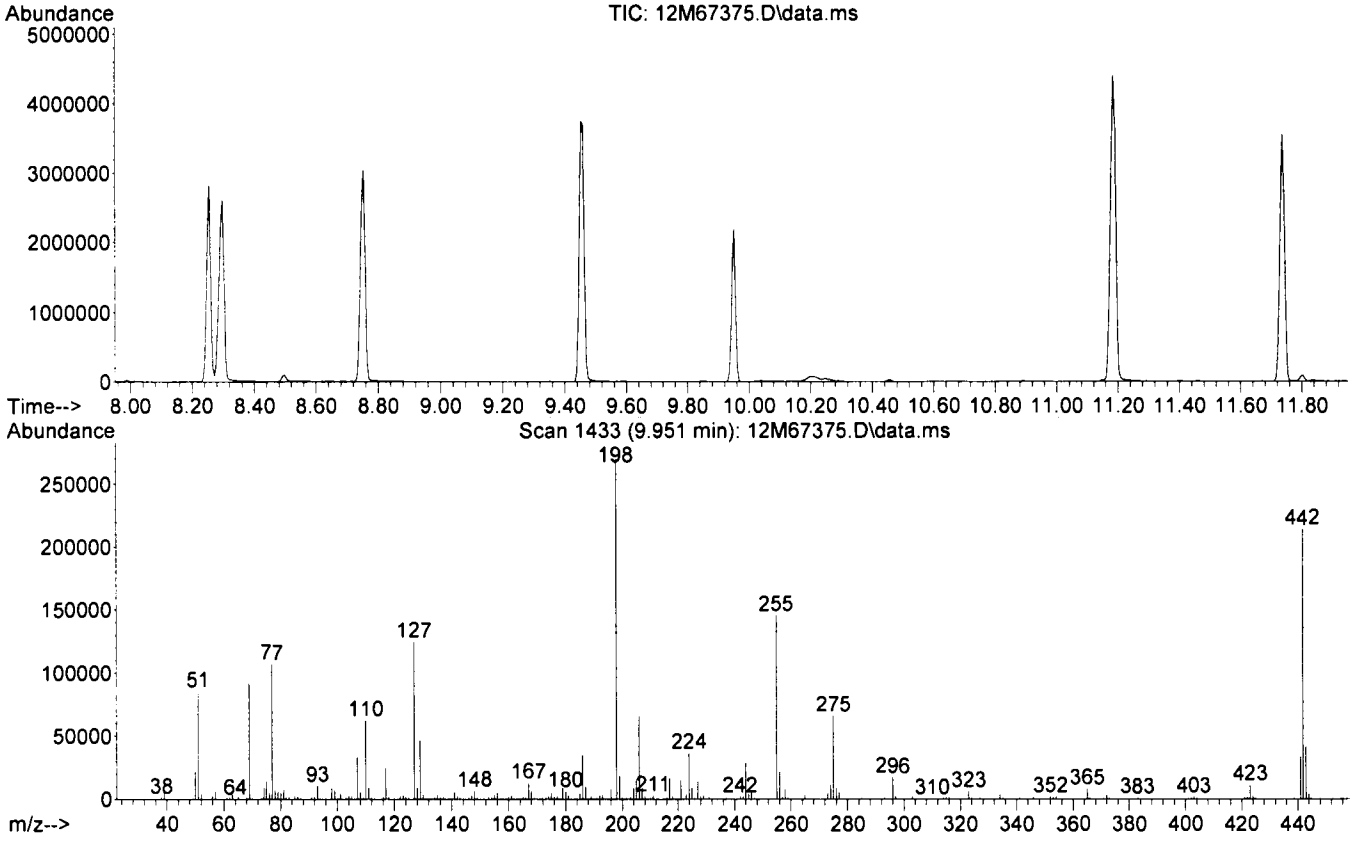
Data File	Sample Number	Analysis Date:
12M67376.D	CAL SIM@5PPM	06/28/23 08:21
12M67377.D	TCCD STD@5PPM	06/28/23 08:55
12M67378.D	WMB108930	06/28/23 09:16
12M67379.D	AD38757-009	06/28/23 09:37
12M67380.D	AD38757-001	06/28/23 09:59
12M67381.D	AD38757-002	06/28/23 10:21
12M67382.D	AD38757-003	06/28/23 10:42
12M67383.D	AD38757-004	06/28/23 11:04
12M67384.D	AD38757-005	06/28/23 11:26
12M67385.D	AD38757-006	06/28/23 11:47
12M67386.D	AD38757-007	06/28/23 12:09
12M67387.D	AD38757-008	06/28/23 12:31
12M67388.D	AD38796-001	06/28/23 12:53
12M67389.D	AD38720-001	06/28/23 13:14
12M67390.D	AD38720-002	06/28/23 13:36
12M67391.D	AD38720-003	06/28/23 13:58
12M67392.D	AD38720-004	06/28/23 14:20
12M67393.D	AD38720-005	06/28/23 14:41
12M67394.D	WMB109448	06/28/23 15:03
12M67395.D	MDL-3 (AQ)	06/28/23 15:25
12M67396.D	AD38720-006	06/28/23 15:47
12M67397.D	AD38720-007	06/28/23 16:09
12M67398.D	AD38714-003(50X)	06/28/23 16:31
12M67399.D	AD38798-002	06/28/23 16:53
12M67400.D	AD38798-006	06/28/23 17:14
12M67401.D	AD38798-007	06/28/23 17:36

DFTPP

Data Path : G:\GcMsData\2023\GCMS_12SM\Data\06-28-23\
Data File : 12M67375.D
Acq On : 28 Jun 2023 7:55
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BN
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2023\GCMS_7\METHODQT\7M_0619.M
Title : @GCMS_7,mg,625,8270
Last Update : Mon Jun 19 13:31:01 2023



Spectrum Information: Scan 1433

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	31.6	85032	PASS
68	69	0.00	2	1.7	1579	PASS
69	198	0.00	100	34.3	92448	PASS
70	69	0.00	2	0.6	515	PASS
127	198	40	60	46.2	124304	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	269248	PASS
199	198	5	9	6.8	18240	PASS
275	198	10	30	24.4	65744	PASS
365	198	1	100	2.9	7902	PASS
441	443	0.01	100	80.5	33208	PASS
442	198	40	100	79.4	213760	PASS
443	442	17	23	19.3	41272	PASS

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: WMB109448
Client Id:
Data File: 5M124294.D
Analysis Date: 06/28/23 15:58
Date Rec/Extracted: NA-06/28/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	U	50-32-8	Benzo[a]pyrene	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	205-99-2	Benzo[b]fluoranthene	2.0	U
123-91-1	1,4-Dioxane	0.50	U	191-24-2	Benzo[g,h,i]perylene	2.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	207-08-9	Benzo[k]fluoranthene	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U	111-91-1	bis(2-Chloroethoxy)methan	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	111-44-4	bis(2-Chloroethyl)ether	0.51	U
120-83-2	2,4-Dichlorophenol	0.62	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
105-67-9	2,4-Dimethylphenol	1.1	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	85-68-7	Butylbenzylphthalate	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	105-60-2	Caprolactam	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	86-74-8	Carbazole	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
95-57-8	2-Chlorophenol	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	132-64-9	Dibenzofuran	0.59	U
95-48-7	2-Methylphenol	0.59	U	84-66-2	Diethylphthalate	2.0	U
88-74-4	2-Nitroaniline	2.0	U	131-11-3	Dimethylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	84-74-2	Di-n-butylphthalate	0.72	U
106-44-5	3&4-Methylphenol	0.64	U	117-84-0	Di-n-octylphthalate	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	206-44-0	Fluoranthene	2.0	U
99-09-2	3-Nitroaniline	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	6.8	U
106-47-8	4-Chloroaniline	0.59	U	67-72-1	Hexachloroethane	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
100-01-6	4-Nitroaniline	2.0	U	78-59-1	Isophorone	2.0	U
100-02-7	4-Nitrophenol	2.0	U	91-20-3	Naphthalene	0.50	U
83-32-9	Acenaphthene	2.0	U	98-95-3	Nitrobenzene	2.0	U
208-96-8	Acenaphthylene	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.61	U
98-86-2	Acetophenone	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
120-12-7	Anthracene	2.0	U	87-86-5	Pentachlorophenol	10	U
1912-24-9	Atrazine	2.0	U	85-01-8	Phenanthrene	2.0	U
100-52-7	Benzaldehyde	2.0	U	108-95-2	Phenol	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 697606

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

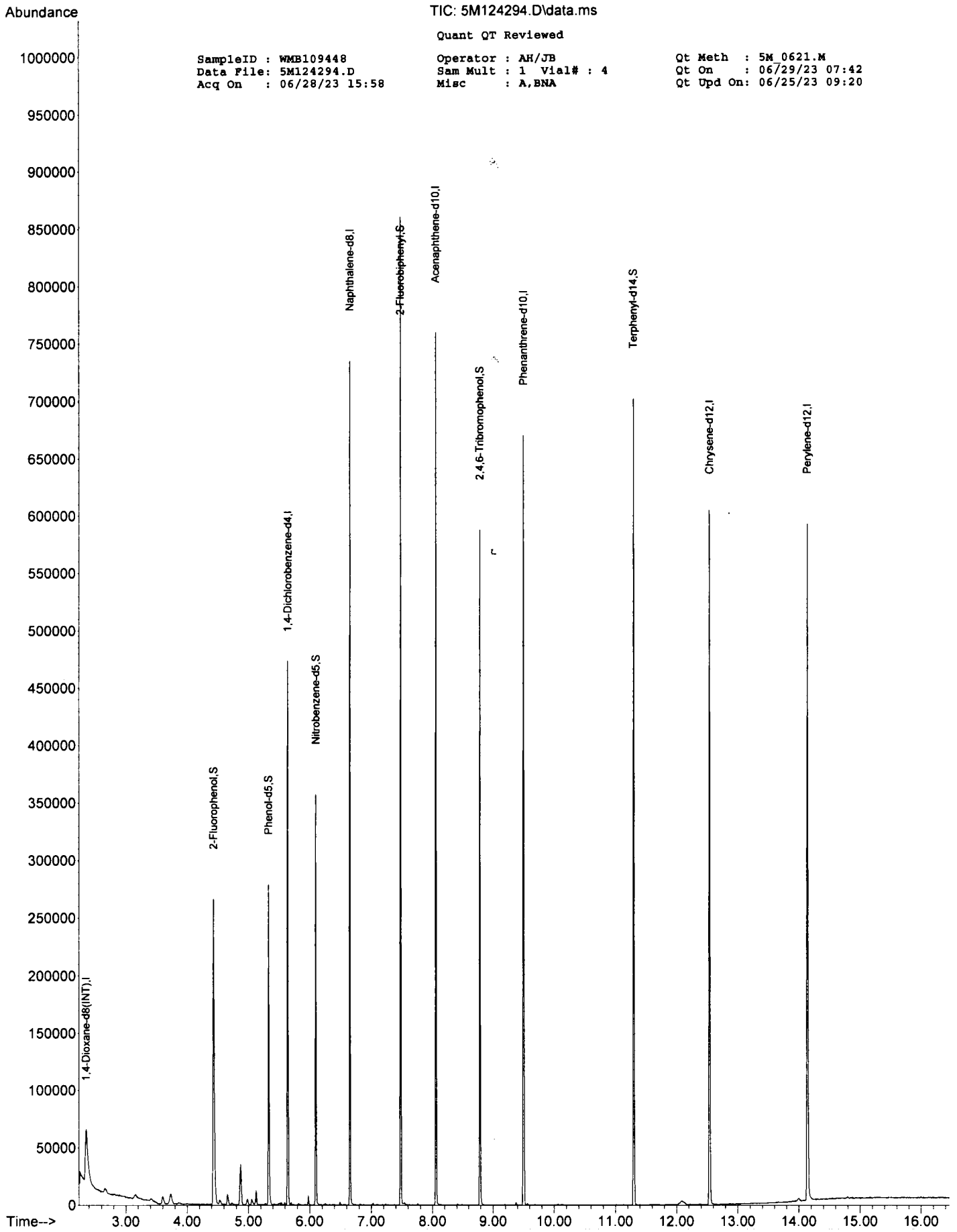
Quantitation Report (QT Reviewed)

SampleID : WMB109448 Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124294.D Sam Mult : 1 Vial# : 4 Qt On : 06/29/23 07:42
Acq On : 06/28/23 15:58 Misc : A,BNA Qt Upd On: 06/25/23 09:20

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-28-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.350	96	53605	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.646	152	79184	40.00	ng	0.00
31) Naphthalene-d8	6.655	136	284306	40.00	ng	0.00
50) Acenaphthene-d10	8.055	164	154020	40.00	ng	0.00
77) Phenanthrene-d10	9.503	188	275726	40.00	ng	0.00
91) Chrysene-d12	12.543	240	239439	40.00	ng	0.00
103) Perylene-d12	14.140	264	232294	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.433	112	122908	52.09	ng	0.00
Spiked Amount 100.000			Recovery = 52.09%			
16) Phenol-d5	5.331	99	99712	34.53	ng	0.00
Spiked Amount 100.000			Recovery = 34.53%			
32) Nitrobenzene-d5	6.100	128	49194	41.38	ng	0.00
Spiked Amount 50.000			Recovery = 82.76%			
55) 2-Fluorobiphenyl	7.478	172	236463	42.91	ng	0.00
Spiked Amount 50.000			Recovery = 85.82%			
80) 2,4,6-Tribromophenol	8.787	330	61276	89.74	ng	0.00
Spiked Amount 100.000			Recovery = 89.74%			
94) Terphenyl-d14	11.298	244	226630	50.48	ng	0.00
Spiked Amount 50.000			Recovery = 100.96%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M124294.D\data.ms
Quant QT Reviewed
SampleID : WMB109448
Data File: 5M124294.D
Acq On : 06/28/23 15:58
Operator : AH/JB
Sam Mult : 1 Vial# : 4
Misc : A,BNA
Qt Meth : 5M_0621.M
Qt On : 06/29/23 07:42
Qt Upd On: 06/25/23 09:20
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: WMB109448
Client Id:
Data File: 12M67394.D
Analysis Date: 06/28/23 15:03
Date Rec/Extracted: NA-06/28/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 697610

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

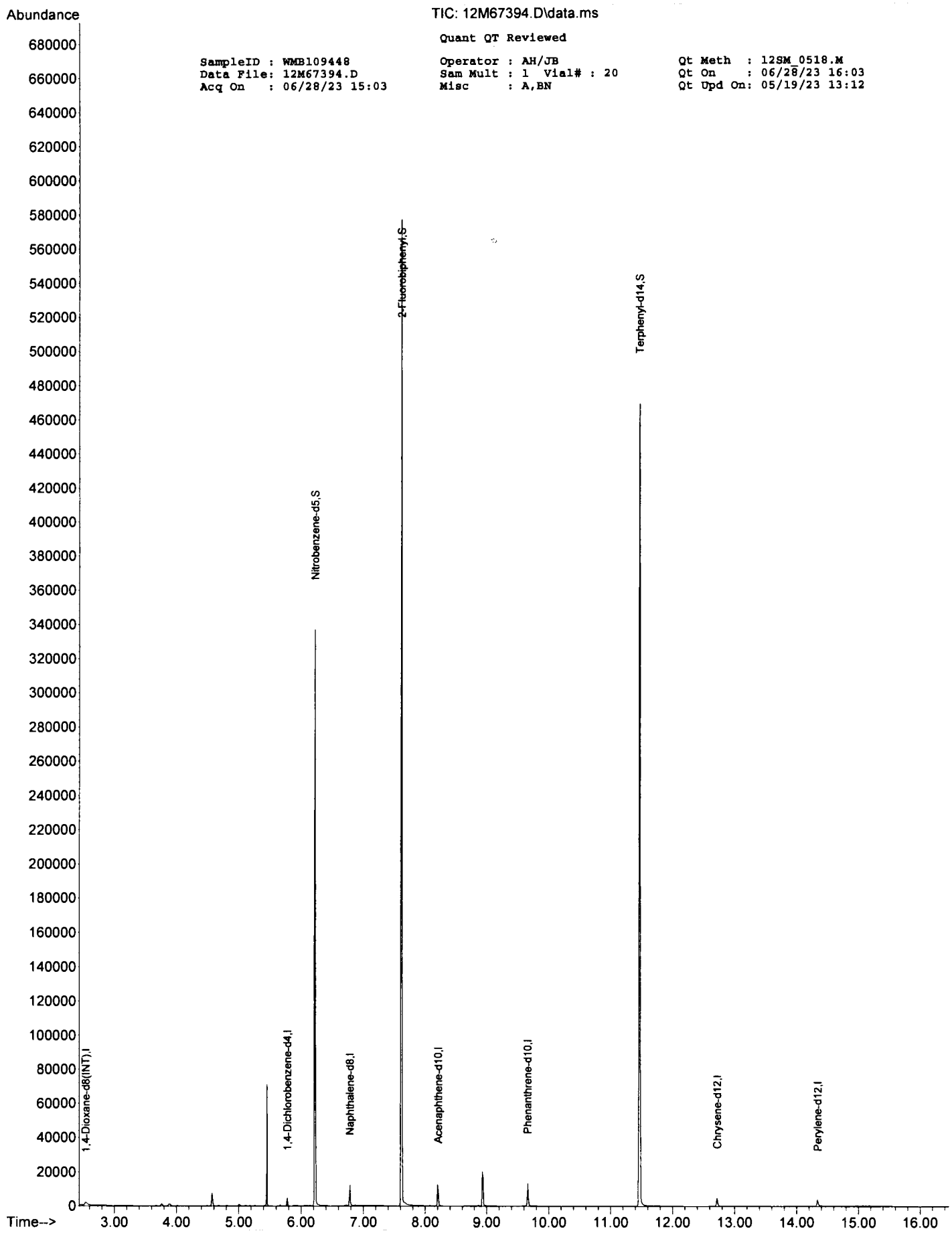
Quantitation Report (QT Reviewed)

SampleID : WMB109448 Operator : AH/JB Qt Meth : 12SM_0518.M
Data File: 12M67394.D Sam Mult : 1 Vial# : 20 Qt On : 06/28/23 16:03
Acq On : 06/28/23 15:03 Misc : A,BN Qt Upd On: 05/19/23 13:12

Data Path : G:\GcMsData\2023\GCMS_12SM\Data\06-28-23\
Qt Path : G:\GCMSDATA\2023\GCMS_12SM\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dioxane-d8(INT)	2.543	96	23663	0.40	ng	0.00
3) 1,4-Dichlorobenzene-d4	5.779	152	25968	0.40	ng	0.00
9) Naphthalene-d8	6.788	136	107262	0.40	ng	0.00
14) Acenaphthene-d10	8.209	164	57849	0.40	ng	0.00
22) Phenanthrene-d10	9.663	188	108199	0.40	ng	0.00
31) Chrysene-d12	12.720	240	45392	0.40	ng	0.00
36) Perylene-d12	14.340	264	38327	0.40	ng	0.00
System Monitoring Compounds						
10) Nitrobenzene-d5	6.222	82	2388177	41.45	ng	0.00
Spiked Amount 50.000			Recovery = 82.90%			
17) 2-Fluorobiphenyl	7.618	172	4431932	37.56	ng	0.00
Spiked Amount 50.000			Recovery = 75.12%			
33) Terphenyl-d14	11.470	244	4714157	46.08	ng	0.00
Spiked Amount 50.000			Recovery = 92.16%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 12M67394.D\data.ms
Quant QT Reviewed
SampleID : WMB109448
Data File: 12M67394.D
Acq On : 06/28/23 15:03
Operator : AH/JB
Sam Mult : 1 Vial# : 20
Misc : A,BN
Qt Meth : 12SM_0518.M
Qt On : 06/28/23 16:03
Qt Upd On: 05/19/23 13:12
1,4-Dioxane-d8(INT),I
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form3
Recovery Data Laboratory Limits
QC Batch: WMB109448

	Data File	Sample ID:	Analysis Date
Spike or Dup:	5M124293.D	WMB109448(MS)	6/28/2023 3:34:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8270E Matrix: Aqueous Units: ug/L QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	52.569	0	100	53	16	112
Pyridine	1	64.0577	0	100	64	10	131
N-Nitrosodimethylamine	1	62.2746	0	100	62	24	118
Benzaldehyde	1	57.6609	0	100	58	10	103
Aniline	1	97.8137	0	100	98	10	149
Pentachloroethane	1	66.4785	0	100	66	10	155
bis(2-Chloroethyl)ether	1	80.3768	0	100	80	42	118
Phenol	1	42.1728	0	100	42	19	121
2-Chlorophenol	1	84.4718	0	100	84	50	123
N-Decane	1	57.3237	0	100	57	25	129
1,3-Dichlorobenzene	1	70.9391	0	100	71	13	126
1,4-Dichlorobenzene	1	73.2672	0	100	73	13	133
1,2-Dichlorobenzene	1	74.7819	0	100	75	16	129
Benzyl alcohol	1	81.2655	0	100	81	33	150
bis(2-chloroisopropyl)ether	1	69.0529	0	100	69	28	119
2-Methylphenol	1	81.2426	0	100	81	50	128
Acetophenone	1	95.3897	0	100	95	47	132
Hexachloroethane	1	71.4334	0	100	71	19	132
N-Nitroso-di-n-propylamine	1	84.7152	0	100	85	46	127
3&4-Methylphenol	1	75.4766	0	100	75	53	129
Nitrobenzene	1	87.8966	0	100	88	45	134
Isophorone	1	80.5189	0	100	81	48	121
2-Nitrophenol	1	95.8954	0	100	96	55	143
2,4-Dimethylphenol	1	88.7865	0	100	89	46	134
Benzoic Acid	1	52.1196	0	100	52	14	216
bis(2-Chloroethoxy)methane	1	88.8319	0	100	89	47	131
2,4-Dichlorophenol	1	94.132	0	100	94	59	134
1,2,4-Trichlorobenzene	1	79.2954	0	100	79	32	135
Naphthalene	1	79.0629	0	100	79	12	146
4-Chloroaniline	1	121.0114	0	100	121	10	161
Hexachlorobutadiene	1	77.6294	0	100	78	24	136
Caprolactam	1	44.8061	0	100	45	10	155
4-Chloro-3-methylphenol	1	99.6496	0	100	100	62	142
2-Methylnaphthalene	1	93.9312	0	100	94	34	156
1-Methylnaphthalene	1	95.3157	0	100	95	44	149
1,1'-Biphenyl	1	92.7695	0	100	93	51	137
1,2,4,5-Tetrachlorobenzene	1	88.9114	0	100	89	52	131
Hexachlorocyclopentadiene	1	96.5191	0	100	97	24	137
2,4,6-Trichlorophenol	1	102.282	0	100	102	66	142
2,4,5-Trichlorophenol	1	100.2862	0	100	100	65	143
2-Chloronaphthalene	1	88.6485	0	100	89	51	129
1,4-Dimethylnaphthalene	1	91.7029	0	100	92	50	137
Diphenyl Ether	1	98.2521	0	100	98	55	134
2-Nitroaniline	1	102.8623	0	100	103	45	165
Coumarin	1	100.1945	0	100	100	10	194
Acenaphthylene	1	101.6718	0	100	102	46	130
Dimethylphthalate	1	94.5198	0	100	95	10	177
2,6-Dinitrotoluene	1	99.0902	0	100	99	55	135
Acenaphthene	1	91.0286	0	100	91	48	136
3-Nitroaniline	1	110.0488	0	100	110	24	169
2,4-Dinitrophenol	1	112.2329	0	100	112	42	160
Dibenzofuran	1	96.0885	0	100	96	50	147
2,4-Dinitrotoluene	1	101.9045	0	100	102	55	136
4-Nitrophenol	1	46.8274	0	100	47	27	141
2,3,4,6-Tetrachlorophenol	1	100.9337	0	100	101	59	141
Fluorene	1	95.8065	0	100	96	53	132
4-Chlorophenyl-phenylether	1	93.7816	0	100	94	58	133
Diethylphthalate	1	97.267	0	100	97	25	152
4-Nitroaniline	1	105.7068	0	100	106	33	156
Atrazine	1	99.4112	0	100	99	21	152
4,6-Dinitro-2-methylphenol	1	111.9924	0	100	112	58	158

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB109448

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	**1**	**79.0169**	**0**	**100**	**79**	**44**	**122**
1,2-Diphenylhydrazine	1	98.3178	0	100	98	53	140
4-Bromophenyl-phenylether	**1**	**100.3373**	**0**	**100**	**100**	**60**	**139**
Hexachlorobenzene	**1**	**95.0045**	**0**	**100**	**95**	**58**	**132**
N-Octadecane	1	130.1221	0	100	130	53	157
Pentachlorophenol	**1**	**105.6174**	**0**	**100**	**106**	**64**	**176**
Phenanthrene	**1**	**97.2717**	**0**	**100**	**97**	**56**	**136**
Anthracene	**1**	**97.769**	**0**	**100**	**98**	**59**	**131**
Carbazole	**1**	**105.7534**	**0**	**100**	**106**	**53**	**159**
Di-n-butylphthalate	**1**	**112.2835**	**0**	**100**	**112**	**60**	**140**
Fluoranthene	**1**	**102.7664**	**0**	**100**	**103**	**61**	**139**
Pyrene	**1**	**97.4967**	**0**	**100**	**97**	**58**	**133**
Benzidine	1	30.8742	0	100	31	10	43
Butylbenzylphthalate	**1**	**109.5855**	**0**	**100**	**110**	**61**	**145**
3,3'-Dichlorobenzidine	**1**	**110.6339**	**0**	**100**	**111**	**10**	**145**
Benzo[a]anthracene	**1**	**95.2946**	**0**	**100**	**95**	**56**	**122**
Chrysene	**1**	**95.5789**	**0**	**100**	**96**	**58**	**136**
bis(2-Ethylhexyl)phthalate	**1**	**104.1143**	**0**	**100**	**104**	**59**	**145**
Di-n-octylphthalate	**1**	**102.1364**	**0**	**100**	**102**	**57**	**147**
Benzo[b]fluoranthene	**1**	**106.32**	**0**	**100**	**106**	**58**	**146**
Benzo[k]fluoranthene	**1**	**105.6739**	**0**	**100**	**106**	**57**	**140**
Benzo[a]pyrene	**1**	**111.0475**	**0**	**100**	**111**	**55**	**135**
Indeno[1,2,3-cd]pyrene	**1**	**104.8272**	**0**	**100**	**105**	**59**	**147**
Dibenzo[a,h]anthracene	**1**	**105.66**	**0**	**100**	**106**	**58**	**142**
Benzo[g,h,i]perylene	**1**	**101.695**	**0**	**100**	**102**	**57**	**138**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Quantitation Report (QT Reviewed)

SampleID : WMB109448(MS) Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124293.D Sam Mult : 1 Vial# : 3 Qt On : 06/29/23 07:42
Acq On : 06/28/23 15:34 Misc : A,BNA Qt Upd On: 06/25/23 09:20

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-28-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.355	96	55415	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.646	152	76843	40.00	ng	0.00
31) Naphthalene-d8	6.656	136	260041	40.00	ng	0.00
50) Acenaphthene-d10	8.061	164	142555	40.00	ng	0.00
77) Phenanthrene-d10	9.503	188	257037	40.00	ng	0.00
91) Chrysene-d12	12.548	240	246310	40.00	ng	0.00
103) Perylene-d12	14.145	264	224930	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.433	112	137719	56.46	ng	0.00
Spiked Amount 100.000			Recovery = 56.46%			
16) Phenol-d5	5.336	99	116576	39.06	ng	0.00
Spiked Amount 100.000			Recovery = 39.06%			
32) Nitrobenzene-d5	6.100	128	52007	47.83	ng	0.00
Spiked Amount 50.000			Recovery = 95.66%			
55) 2-Fluorobiphenyl	7.484	172	248644	48.75	ng	0.00
Spiked Amount 50.000			Recovery = 97.50%			
80) 2,4,6-Tribromophenol	8.792	330	70211	110.30	ng	0.00
Spiked Amount 100.000			Recovery = 110.30%			
94) Terphenyl-d14	11.303	244	245824	53.23	ng	0.00
Spiked Amount 50.000			Recovery = 106.46%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.387	88	77199	52.5690	ng	99
9) Pyridine	2.809	79	189068	64.0577	ng	69
10) N-Nitrosodimethylamine	2.756	74	139176	62.2746	ng	72
12) Benzaldehyde	5.272	77	123281	57.6609	ng	74
13) Aniline	5.363	93	336804	97.8137	ng	59
14) Pentachloroethane	5.400	117	63428	66.4785	ng	72
15) bis(2-Chloroethyl)ether	5.427	93	216131	80.3768	ng	80
17) Phenol	5.347	94	152272	42.1728	ng	83
18) 2-Chlorophenol	5.464	128	221252	84.4718	ng	79
19) N-Decane	5.507	57	157762	57.3237	ng	97
20) 1,3-Dichlorobenzene	5.592	146	213634	70.9391	ng	97
22) 1,4-Dichlorobenzene	5.657	146	221279	73.2672	ng	98
23) 1,2-Dichlorobenzene	5.785	146	212370	74.7819	ng	97
24) Benzyl alcohol	5.763	108	135957	81.2655	ng	71
25) bis(2-chloroisopropyl)...	5.876	45	214326	69.0529	ng	100
26) 2-Methylphenol	5.860	108	187355	81.2426	ng	96
27) Acetophenone	5.982	105	322198	95.3897	ng	69
28) Hexachloroethane	6.057	117	76710	71.4334	ng	90
29) N-Nitroso-di-n-propyla...	5.982	70	148240	84.7152	ng	70
30) 3&4-Methylphenol	5.982	108	182655	75.4766	ng	88
33) Nitrobenzene	6.116	77	217209	87.8966	ng	79
34) Isophorone	6.303	82	357648	80.5189	ng	88
35) 2-Nitrophenol	6.362	139	118965	95.8954	ng	87
36) 2,4-Dimethylphenol	6.394	107	204405	88.7865	ng	90
37) Benzoic Acid	6.469	105	75915	52.1196	ng	85
38) bis(2-Chloroethoxy)met...	6.469	93	248750	88.8319	ng	97
39) 2,4-Dichlorophenol	6.549	162	190084	94.1320	ng	85
40) 1,2,4-Trichlorobenzene	6.613	180	187090	79.2954	ng	96
41) Naphthalene	6.672	128	591582	79.0629	ng	98
42) 4-Chloroaniline	6.714	127	287277	121.0114	ng	96
43) Hexachlorobutadiene	6.757	225	104735	77.6294	ng	96
44) Caprolactam	6.987	113	28375	44.8061	ng	68
45) 4-Chloro-3-methylphenol	7.072	107	185020	99.6496	ng	78
46) 2-Methylnaphthalene	7.195	142	443331	93.9312	ng	98
47) 1-Methylnaphthalene	7.275	142	420063	95.3157	ng	91
48) Methylnaphthalenes (To...	7.275	142	869157m	190.7038	ng	
49) 1,1'-Biphenyl	7.564	154	547439	92.7695	ng	95
51) 1,2,4,5-Tetrachloroben...	7.329	216	207474	88.9114	ng	99
52) Hexachlorocyclopentadiene	7.313	237	94119	96.5191	ng	99
53) 2,4,6-Trichlorophenol	7.414	196	143564m	102.2820	ng	
54) 2,4,5-Trichlorophenol	7.446	196	150949m	100.2862	ng	
56) 2-Chloronaphthalene	7.590	162	386971	88.6485	ng	88
57) 1,4-Dimethylnaphthalene	7.863	156	334342	91.7029	ng	88
58) Dimethylnaphthalenes (...	7.863	156	334342	91.7029	ng	88
59) Diphenyl Ether	7.649	170	297300	98.2521	ng	75
60) 2-Nitroaniline	7.671	65	134539	102.8623	ng	48
61) Coumarin	7.852	146	176868	100.1945	ng	95
62) Acenaphthylene	7.938	152	620681	101.6718	ng	98
63) Dimethylphthalate	7.815	163	441082	94.5198	ng	99
64) 2,6-Dinitrotoluene	7.868	165	103555	99.0902	ng	64
65) Acenaphthene	8.087	153	392757	91.0286	ng	96

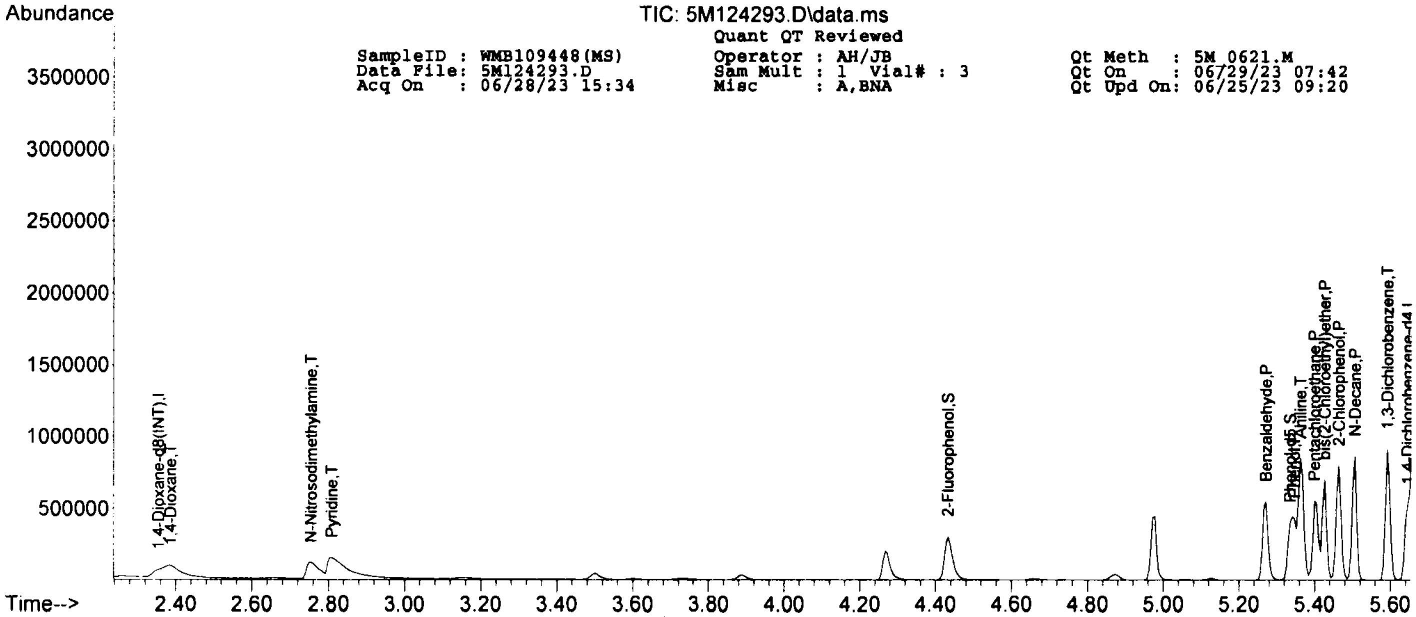
Quantitation Report (QT Reviewed)

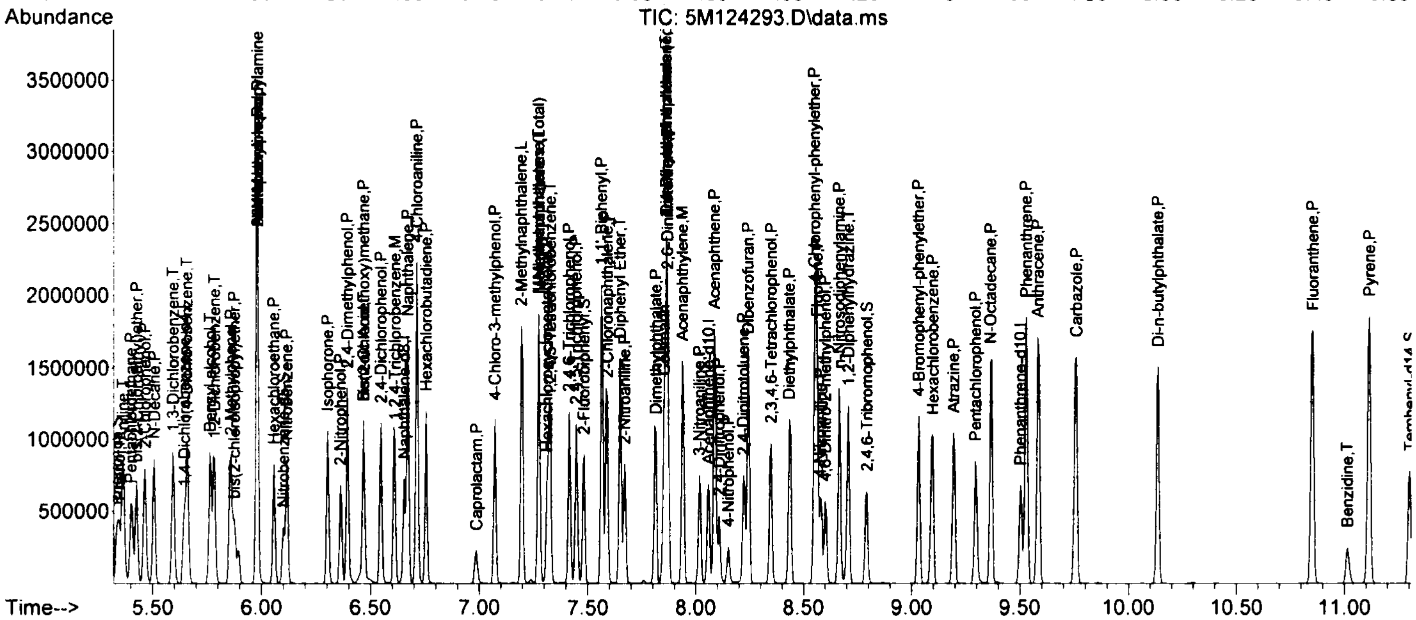
SampleID : WMB109448(MS) Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124293.D Sam Mult : 1 Vial# : 3 Qt On : 06/29/23 07:42
Acq On : 06/28/23 15:34 Misc : A,BNA Qt Upd On: 06/25/23 09:20

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-28-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.018	138	114162	110.0488	ng	79
67)	2,4-Dinitrophenol	8.109	184	62421	112.2329	ng	37
68)	Dibenzofuran	8.242	168	609639	96.0885	ng	83
69)	2,4-Dinitrotoluene	8.221	165	134282	101.9045	ng	68
70)	4-Nitrophenol	8.151	65	33895	46.8274	ng	94
71)	2,3,4,6-Tetrachlorophenol	8.349	232	123347	100.9337	ng	81
72)	Fluorene	8.563	166	481170	95.8065	ng	100
73)	4-Chlorophenyl-phenyle...	8.552	204	234309	93.7816	ng	80
74)	Diethylphthalate	8.435	149	432594	97.2670	ng	97
75)	4-Nitroaniline	8.579	138	121070	105.7068	ng	75
76)	Atrazine	9.193	200	125357	99.4112	ng	96
78)	4,6-Dinitro-2-methylph...	8.600	198	86209	111.9924	ng	65
79)	n-Nitrosodiphenylamine	8.664	169	318082	79.0169	ng	99
81)	1,2-Diphenylhydrazine	8.707	77	479960	98.3178	ng	81
82)	4-Bromophenyl-phenylether	9.033	248	140221	100.3373	ng	80
83)	Hexachlorobenzene	9.097	284	144627	95.0045	ng	61
84)	N-Octadecane	9.364	57	273116	130.1221	ng	74
85)	Pentachlorophenol	9.295	266	95136	105.6174	ng	96
86)	Phenanthrene	9.530	178	688547	97.2717	ng	99
87)	Anthracene	9.583	178	690390	97.7690	ng	98
88)	Carbazole	9.759	167	689101	105.7534	ng	97
89)	Di-n-butylphthalate	10.139	149	803019	112.2835	ng	97
90)	Fluoranthene	10.855	202	791638	102.7664	ng	89
92)	Pyrene	11.116	202	812099	97.4967	ng	86
93)	Benzidine	11.015	184	95982	30.8742	ng	84
97)	Butylbenzylphthalate	11.896	149	345397	109.5855	ng	69
99)	3,3'-Dichlorobenzidine	12.516	252	250611	110.6339	ng	94
100)	Benzo[a]anthracene	12.532	228	752694	95.2946	ng	97
101)	Chrysene	12.580	228	709566m	95.5789	ng	
102)	bis(2-Ethylhexyl)phtha...	12.585	149	464092	104.1143	ng	94
104)	Di-n-octylphthalate	13.339	149	773582	102.1364	ng	99
105)	Benzo[b]fluoranthene	13.745	252	728857	106.3200	ng	99
106)	Benzo[k]fluoranthene	13.777	252	719785	105.6739	ng	94
107)	Benzo[a]pyrene	14.092	252	667938	111.0475	ng	91
108)	Indeno[1,2,3-cd]pyrene	15.385	276	786788	104.8272	ng	83
109)	Dibenzo[a,h]anthracene	15.406	278	651782	105.6600	ng	95
110)	Benzo[g,h,i]perylene	15.737	276	615951	101.6950	ng	75

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M124293.D\data.ms
Quant QT Reviewed
SampleID : WMB109448(MS)
Data File: 5M124293.D
Acq On : 06/28/23 15:34
Operator : AH/JB
Sam Mult : 1 Vial# : 3
Misc : A,BNA
Qt Meth : 5M_0621.M
Qt On : 06/29/23 07:42
Qt Upd On: 06/25/23 09:20
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Aniline,T
2-Chlorophenol,P
N-Decane,P
1,3-Dichlorobenzene,T
Time-->


Abundance
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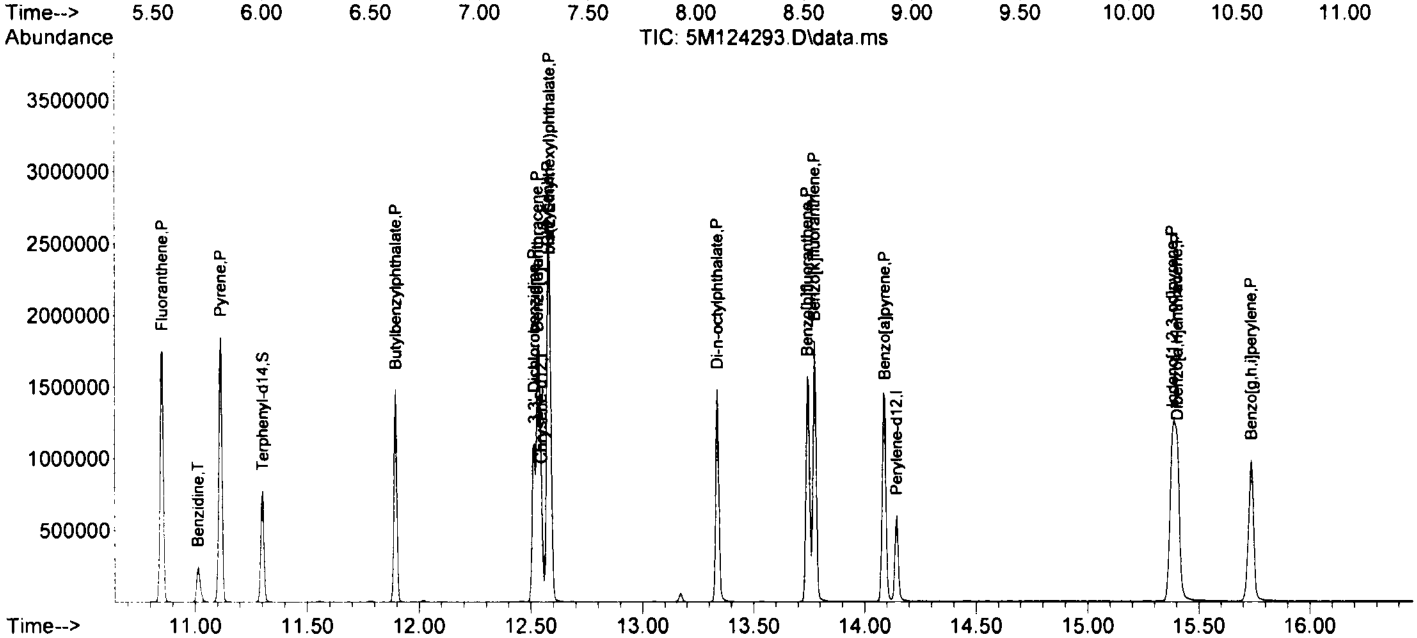
Hexachloroethane,P
Isophorone,P
2-Nitrophenol,P
2,4-Dimethylphenol,P
2,4-Dichlorophenol,P
Naphthalene,P
4-Chloroaniline,P
Hexachlorobutadiene,P
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Methylnaphthalene,L
2-Nitroaniline,P
Dimethylphthalate,P
Acenaphthylene,M
Acenaphthene,P
4-Nitrophenol,P
Dibenzofuran,P
2,4-Dinitrotoluene,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Chlorophenyl-phenylether,P
1,2-Diphenylhydrazine,T
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 5M124293.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Form3
Recovery Data Laboratory Limits
QC Batch:WMB109448

	Data File	Sample ID:	Analysis Date
Spike or Dup:	5M124299.D	AD38798-004(MS:AD38798-002	6/28/2023 6:25:00 PM
Non Spike(If applicable):	5M124298.D	AD38798-002	6/28/2023 6:01:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	48.7108	0	100	49	16	112
Pyridine	1	17.481	0	100	17	10	131
N-Nitrosodimethylamine	1	55.174	0	100	55	24	118
Benzaldehyde	1	54.3524	0	100	54	10	103
Aniline	1	74.6039	0	100	75	10	149
Pentachloroethane	1	72.0807	0	100	72	10	155
bis(2-Chloroethyl)ether	1	75.253	0	100	75	42	118
Phenol	1	36.0293	0	100	36	19	121
2-Chlorophenol	1	75.2	0	100	75	50	123
N-Decane	1	66.7421	0	100	67	25	129
1,3-Dichlorobenzene	1	74.141	0	100	74	13	126
1,4-Dichlorobenzene	1	77.6367	0	100	78	13	133
1,2-Dichlorobenzene	1	77.3861	0	100	77	16	129
Benzyl alcohol	1	77.1734	0	100	77	33	150
bis(2-chloroisopropyl)ether	1	55.4977	0	100	55	28	119
2-Methylphenol	1	67.1861	0	100	67	50	128
Acetophenone	1	94.1234	0	100	94	47	132
Hexachloroethane	1	76.5665	0	100	77	19	132
N-Nitroso-di-n-propylamine	1	85.4023	0	100	85	46	127
3&4-Methylphenol	1	64.8024	0	100	65	53	129
Nitrobenzene	1	87.8236	0	100	88	45	134
Isophorone	1	77.8996	0	100	78	48	121
2-Nitrophenol	1	95.3203	0	100	95	55	143
2,4-Dimethylphenol	1	71.4002	0	100	71	46	134
Benzoic Acid	1	45.1748	0	100	45	14	216
bis(2-Chloroethoxy)methane	1	85.6287	0	100	86	47	131
2,4-Dichlorophenol	1	89.8213	0	100	90	59	134
1,2,4-Trichlorobenzene	1	85.313	0	100	85	32	135
Naphthalene	1	82.0049	0	100	82	12	148
4-Chloroaniline	1	115.4051	0	100	115	10	161
Hexachlorobutadiene	1	82.5343	0	100	83	24	136
Caprolactam	1	38.5512	0	100	39	10	155
4-Chloro-3-methylphenol	1	91.5143	0	100	92	62	142
2-Methylnaphthalene	1	97.3642	0	100	97	34	156
1-Methylnaphthalene	1	98.8061	0	100	99	44	149
1,1'-Biphenyl	1	93.2342	0	100	93	51	137
1,2,4,5-Tetrachlorobenzene	1	92.9418	0	100	93	52	131
Hexachlorocyclopentadiene	1	95.7666	0	100	96	24	137
2,4,6-Trichlorophenol	1	101.939	0	100	102	66	142
2,4,5-Trichlorophenol	1	98.3336	0	100	98	65	143
2-Chloronaphthalene	1	88.8632	0	100	89	51	129
1,4-Dimethylnaphthalene	1	91.3852	0	100	91	50	137
Diphenyl Ether	1	94.9825	0	100	95	55	134
2-Nitroaniline	1	80.584	0	100	81	45	165
Coumarin	1	95.8452	0	100	96	10	194
Acenaphthylene	1	100.5465	0	100	101	46	130
Dimethylphthalate	1	92.4345	0	100	92	10	177
2,6-Dinitrotoluene	1	97.9753	0	100	98	55	135
Acenaphthene	1	93.6846	0	100	94	48	136
3-Nitroaniline	1	105.2632	0	100	105	24	169
2,4-Dinitrophenol	1	107.229	0	100	107	42	160
Dibenzofuran	1	95.6067	0	100	96	50	147
2,4-Dinitrotoluene	1	99.6277	0	100	100	55	136
4-Nitrophenol	1	39.206	0	100	39	27	141
2,3,4,6-Tetrachlorophenol	1	98.7706	0	100	99	59	141
Fluorene	1	95.9618	0	100	96	53	132
4-Chlorophenyl-phenylether	1	96.2425	0	100	96	58	133
Diethylphthalate	1	97.3823	0	100	97	25	152
4-Nitroaniline	1	93.8556	0	100	94	33	166
Atrazine	1	96.9216	0	100	97	21	152
4,6-Dinitro-2-methylphenol	1	112.394	0	100	112	58	158

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB109448

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	73.8144	0	100	74	44	112
1,2-Diphenylhydrazine	1	89.8502	0	100	90	53	140
4-Bromophenyl-phenylether	1	96.5394	0	100	97	60	139
Hexachlorobenzene	1	92.7115	0	100	93	58	132
N-Octadecane	1	127.426	0	100	127	53	157
Pentachlorophenol	1	107.7336	0	100	108	64	176
Phenanthrene	1	94.8565	0	100	95	56	136
Anthracene	1	94.0749	0	100	94	59	131
Carbazole	1	102.131	0	100	102	53	149
Di-n-butylphthalate	1	111.2291	0	100	111	60	140
Fluoranthene	1	102.0835	0	100	102	61	139
Pyrene	1	97.6193	0	100	98	58	133
Benzidine	1	0	0	100	0*	10	43
Butylbenzylphthalate	1	108.2969	0	100	108	61	145
3,3'-Dichlorobenzidine	1	66.0053	0	100	66	10	145
Benzo[a]anthracene	1	94.7511	0	100	95	56	122
Chrysene	1	95.355	0	100	95	58	136
bis(2-Ethylhexyl)phthalate	1	104.0236	0	100	104	59	145
Di-n-octylphthalate	1	100.3101	0	100	100	57	147
Benzo[b]fluoranthene	1	105.3426	0	100	105	58	146
Benzo[k]fluoranthene	1	105.7809	0	100	106	57	140
Benzo[a]pyrene	1	104.7327	0	100	105	55	135
Indeno[1,2,3-cd]pyrene	1	100.7351	0	100	101	59	147
Dibenzo[a,h]anthracene	1	103.1001	0	100	103	58	142
Benzo[g,h,i]perylene	1	97.2045	0	100	97	57	138

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB109448

	Data File	Sample ID:	Analysis Date
Spike or Dup:	5M124300.D	AD38798-005(MSD:AD38798-0	6/28/2023 6:49:00 PM
Non Spike(If applicable):	5M124298.D	AD38798-002	6/28/2023 6:01:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	42.1968	0	100	42	16	112
Pyridine	1	61.148	0	100	61	10	131
N-Nitrosodimethylamine	1	51.0184	0	100	51	24	118
Benzaldehyde	1	52.939	0	100	53	10	103
Aniline	1	87.2215	0	100	87	10	149
Pentachloroethane	1	71.8521	0	100	72	10	155
bis(2-Chloroethyl)ether	1	75.5493	0	100	76	42	118
Phenol	1	35.276	0	100	35	19	121
2-Chlorophenol	1	78.6018	0	100	79	50	123
N-Decane	1	65.6176	0	100	66	25	129
1,3-Dichlorobenzene	1	73.4492	0	100	73	13	126
1,4-Dichlorobenzene	1	73.9693	0	100	74	13	133
1,2-Dichlorobenzene	1	74.8967	0	100	75	16	129
Benzyl alcohol	1	72.077	0	100	72	33	150
bis(2-chloroisopropyl)ether	1	54.4114	0	100	54	28	119
2-Methylphenol	1	72.2419	0	100	72	50	128
Acetophenone	1	91.4097	0	100	91	47	132
Hexachloroethane	1	73.7763	0	100	74	19	132
N-Nitroso-di-n-propylamine	1	84.732	0	100	85	46	127
3&4-Methylphenol	1	67.9282	0	100	68	53	129
Nitrobenzene	1	85.3938	0	100	85	45	134
Isophorone	1	76.8078	0	100	77	48	121
2-Nitrophenol	1	93.0238	0	100	93	55	143
2,4-Dimethylphenol	1	79.8783	0	100	80	46	134
Benzoic Acid	1	40.6318	0	100	41	14	216
bis(2-Chloroethoxy)methane	1	84.4413	0	100	84	47	131
2,4-Dichlorophenol	1	91.539	0	100	92	59	134
1,2,4-Trichlorobenzene	1	83.1273	0	100	83	32	135
Naphthalene	1	79.8671	0	100	80	12	146
4-Chloroaniline	1	112.3736	0	100	112	10	161
Hexachlorobutadiene	1	79.9002	0	100	80	24	136
Caprolactam	1	36.0724	0	100	36	10	155
4-Chloro-3-methylphenol	1	97.0917	0	100	97	62	142
2-Methylnaphthalene	1	93.1821	0	100	93	34	156
1-Methylnaphthalene	1	93.0547	0	100	93	44	149
1,1'-Biphenyl	1	88.4323	0	100	88	51	137
1,2,4,5-Tetrachlorobenzene	1	89.3343	0	100	89	52	131
Hexachlorocyclopentadiene	1	101.9627	0	100	102	24	137
2,4,6-Trichlorophenol	1	101.4131	0	100	101	66	142
2,4,5-Trichlorophenol	1	98.811	0	100	99	65	143
2-Chloronaphthalene	1	87.7825	0	100	88	51	129
1,4-Dimethylnaphthalene	1	89.5783	0	100	90	50	137
Diphenyl Ether	1	93.1526	0	100	93	55	134
2-Nitroaniline	1	79.6593	0	100	80	45	165
Coumarin	1	94.3321	0	100	94	10	194
Acenaphthylene	1	98.4552	0	100	98	46	130
Dimethylphthalate	1	92.0065	0	100	92	10	177
2,6-Dinitrotoluene	1	96.015	0	100	96	55	135
Acenaphthene	1	91.5556	0	100	92	48	136
3-Nitroaniline	1	104.7786	0	100	105	24	169
2,4-Dinitrophenol	1	110.4481	0	100	110	42	160
Dibenzofuran	1	94.1467	0	100	94	50	147
2,4-Dinitrotoluene	1	99.6738	0	100	100	55	136
4-Nitrophenol	1	39.7662	0	100	40	27	141
2,3,4,6-Tetrachlorophenol	1	96.9944	0	100	97	59	141
Fluorene	1	94.6224	0	100	95	53	132
4-Chlorophenyl-phenylether	1	95.4108	0	100	95	58	133
Diethylphthalate	1	95.941	0	100	96	25	152
4-Nitroaniline	1	91.6594	0	100	92	33	166
Atrazine	1	94.2246	0	100	94	21	152
4,6-Dinitro-2-methylphenol	1	111.8117	0	100	112	58	158

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB109448

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	**1**	**77.4081**	**0**	**100**	**77**	**44**	**112**
1,2-Diphenylhydrazine	1	89.0775	0	100	89	53	140
4-Bromophenyl-phenylether	**1**	**96.0575**	**0**	**100**	**96**	**60**	**139**
Hexachlorobenzene	**1**	**91.6198**	**0**	**100**	**92**	**58**	**132**
N-Octadecane	1	125.4086	0	100	125	53	157
Pentachlorophenol	**1**	**103.0671**	**0**	**100**	**103**	**64**	**176**
Phenanthrene	**1**	**92.3699**	**0**	**100**	**92**	**56**	**136**
Anthracene	**1**	**94.2817**	**0**	**100**	**94**	**59**	**131**
Carbazole	**1**	**97.7706**	**0**	**100**	**98**	**58**	**136**
Di-n-butylphthalate	**1**	**107.1854**	**0**	**100**	**107**	**60**	**140**
Fluoranthene	**1**	**100.1317**	**0**	**100**	**100**	**61**	**139**
Pyrene	**1**	**94.4722**	**0**	**100**	**94**	**58**	**133**
Benzidine	1	35.6055	0	100	36	10	43
Butylbenzylphthalate	**1**	**104.8246**	**0**	**100**	**105**	**61**	**145**
3,3'-Dichlorobenzidine	**1**	**85.3929**	**0**	**100**	**85**	**10**	**145**
Benzo[a]anthracene	**1**	**93.459**	**0**	**100**	**93**	**56**	**122**
Chrysene	**1**	**92.6041**	**0**	**100**	**93**	**58**	**136**
bis(2-Ethylhexyl)phthalate	**1**	**102.7201**	**0**	**100**	**103**	**59**	**145**
Di-n-octylphthalate	**1**	**99.6104**	**0**	**100**	**100**	**57**	**147**
Benzo[b]fluoranthene	**1**	**101.9834**	**0**	**100**	**102**	**58**	**146**
Benzo[k]fluoranthene	**1**	**100.902**	**0**	**100**	**101**	**57**	**140**
Benzo[a]pyrene	**1**	**104.9628**	**0**	**100**	**105**	**55**	**135**
Indeno[1,2,3-cd]pyrene	**1**	**97.709**	**0**	**100**	**98**	**59**	**147**
Dibenzo[a,h]anthracene	**1**	**98.3955**	**0**	**100**	**98**	**58**	**142**
Benzo[g,h,i]perylene	**1**	**94.7946**	**0**	**100**	**95**	**57**	**138**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: WMB109448

	Data File	Sample ID:	Analysis Date
Spike or Dup:	5M124300.D	AD38798-005(MSD:AD38798-0	6/28/2023 6:49:00 PM
Duplicate(If applicable):	5M124299.D	AD38798-004(MS:AD38798-002	6/28/2023 6:25:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
1,4-Dioxane	**1**	**42.1968**	**48.7108**	**14**	**58**
Pyridine	1	61.148	17.481	111	143
N-Nitrosodimethylamine	1	51.0184	55.174	7.8	40
Benzaldehyde	**1**	**52.939**	**54.3524**	**2.6**	**92**
Aniline	1	87.2215	74.6039	16	138
Pentachloroethane	1	71.8521	72.0807	0.32	79
bis(2-Chloroethyl)ether	**1**	**75.5493**	**75.253**	**0.39**	**42**
Phenol	**1**	**35.276**	**36.0293**	**2.1**	**86**
2-Chlorophenol	**1**	**78.6018**	**75.2**	**4.4**	**47**
N-Decane	1	65.6176	66.7421	1.7	59
1,3-Dichlorobenzene	1	73.4492	74.141	0.94	90
1,4-Dichlorobenzene	1	73.9693	77.6367	4.8	88
1,2-Dichlorobenzene	1	74.8967	77.3861	3.3	74
Benzyl alcohol	1	72.077	77.1734	6.8	35
bis(2-chloroisopropyl)ether	**1**	**54.4114**	**55.4977**	**2**	**48**
2-Methylphenol	**1**	**72.2419**	**67.1861**	**7.3**	**34**
Acetophenone	**1**	**91.4097**	**94.1234**	**2.9**	**30**
Hexachloroethane	**1**	**73.7763**	**76.5665**	**3.7**	**88**
N-Nitroso-di-n-propylamine	**1**	**84.732**	**85.4023**	**0.79**	**56**
3&4-Methylphenol	**1**	**67.9282**	**64.8024**	**4.7**	**28**
Nitrobenzene	**1**	**85.3938**	**87.8236**	**2.8**	**38**
Isophorone	**1**	**76.8078**	**77.8996**	**1.4**	**35**
2-Nitrophenol	**1**	**93.0238**	**95.3203**	**2.4**	**41**
2,4-Dimethylphenol	**1**	**79.8783**	**71.4002**	**11**	**33**
Benzoic Acid	1	40.6318	45.1748	11	82
bis(2-Chloroethoxy)methane	**1**	**84.4413**	**85.6287**	**1.4**	**44**
2,4-Dichlorophenol	**1**	**91.539**	**89.8213**	**1.9**	**37**
1,2,4-Trichlorobenzene	1	83.1273	85.313	2.6	50
Naphthalene	**1**	**79.8671**	**82.0049**	**2.6**	**47**
4-Chloroaniline	**1**	**112.3736**	**115.4051**	**2.7**	**85**
Hexachlorobutadiene	**1**	**79.9002**	**82.5343**	**3.2**	**58**
Caprolactam	**1**	**36.0724**	**38.5512**	**6.6**	**33**
4-Chloro-3-methylphenol	**1**	**97.0917**	**91.5143**	**5.9**	**28**
2-Methylnaphthalene	**1**	**93.1821**	**97.3642**	**4.4**	**38**
1-Methylnaphthalene	1	93.0547	98.8061	6	32
1,1'-Biphenyl	**1**	**88.4323**	**93.2342**	**5.3**	**31**
1,2,4,5-Tetrachlorobenzene	**1**	**89.3343**	**92.9418**	**4**	**32**
Hexachlorocyclopentadiene	**1**	**101.9627**	**95.7666**	**6.3**	**48**
2,4,6-Trichlorophenol	**1**	**101.4131**	**101.939**	**0.52**	**62**
2,4,5-Trichlorophenol	**1**	**98.811**	**98.3336**	**0.48**	**35**
2-Chloronaphthalene	**1**	**87.7825**	**88.8632**	**1.2**	**35**
1,4-Dimethylnaphthalene	1	89.5783	91.3852	2	31
Diphenyl Ether	1	93.1526	94.9825	1.9	32
2-Nitroaniline	**1**	**79.6593**	**80.584**	**1.2**	**37**
Coumarin	1	94.3321	95.8452	1.6	97
Acenaphthylene	**1**	**98.4552**	**100.5465**	**2.1**	**41**
Dimethylphthalate	**1**	**92.0065**	**92.4345**	**0.46**	**108**
2,6-Dinitrotoluene	**1**	**96.015**	**97.9753**	**2**	**35**
Acenaphthene	**1**	**91.5556**	**93.6846**	**2.3**	**35**
3-Nitroaniline	**1**	**104.7786**	**105.2632**	**0.46**	**64**
2,4-Dinitrophenol	**1**	**110.4481**	**107.229**	**3**	**63**
Dibenzofuran	**1**	**94.1467**	**95.6067**	**1.5**	**36**
2,4-Dinitrotoluene	**1**	**99.6738**	**99.6277**	**0.05**	**35**
4-Nitrophenol	**1**	**39.7662**	**39.206**	**1.4**	**33**
2,3,4,6-Tetrachlorophenol	**1**	**96.9944**	**98.7706**	**1.8**	**36**
Fluorene	**1**	**94.6224**	**95.9618**	**1.4**	**34**
4-Chlorophenyl-phenylether	**1**	**95.4108**	**96.2425**	**0.87**	**33**
Diethylphthalate	**1**	**95.941**	**97.3823**	**1.5**	**37**
4-Nitroaniline	**1**	**91.6594**	**93.8556**	**2.4**	**35**
Atrazine	**1**	**94.2246**	**96.9216**	**2.8**	**47**
4,6-Dinitro-2-methylphenol	**1**	**111.8117**	**112.394**	**0.52**	**46**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: WMB109448

Method: 8270E | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Nitrosodiphenylamine	1	77.4081	73.8144	4.8	37
1,2-Diphenylhydrazine	1	89.0775	89.8502	0.86	36
4-Bromophenyl-phenylether	1	96.0575	96.5394	0.5	34
Hexachlorobenzene	1	91.6198	92.7115	1.2	34
N-Octadecane	1	125.4086	127.426	1.6	31
Pentachlorophenol	1	103.0671	107.7336	4.4	32
Phenanthrene	1	92.3699	94.8565	2.7	33
Anthracene	1	94.2817	94.0749	0.22	34
Carbazole	1	97.7706	102.131	4.4	32
Di-n-butylphthalate	1	107.1854	111.2291	3.7	34
Fluoranthene	1	100.1317	102.0835	1.9	34
Pyrene	1	94.4722	97.6193	3.3	33
Benzidine	1	35.6055	0	200	213
Butylbenzylphthalate	1	104.8246	108.2969	3.3	34
3,3'-Dichlorobenzidine	1	85.3929	66.0053	26	126
Benzo[a]anthracene	1	93.459	94.7511	1.4	33
Chrysene	1	92.6041	95.355	2.9	32
bis(2-Ethylhexyl)phthalate	1	102.7201	104.0236	1.3	33
Di-n-octylphthalate	1	99.6104	100.3101	0.7	36
Benzo[b]fluoranthene	1	101.9834	105.3426	3.2	36
Benzo[k]fluoranthene	1	100.902	105.7809	4.7	20
Benzo[a]pyrene	1	104.9628	104.7327	0.22	35
Indeno[1,2,3-cd]pyrene	1	97.709	100.7351	3	35
Dibenzo[a,h]anthracene	1	98.3955	103.1001	4.7	35
Benzo[g,h,i]perylene	1	94.7946	97.2045	2.5	35

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Quantitation Report (QT Reviewed)

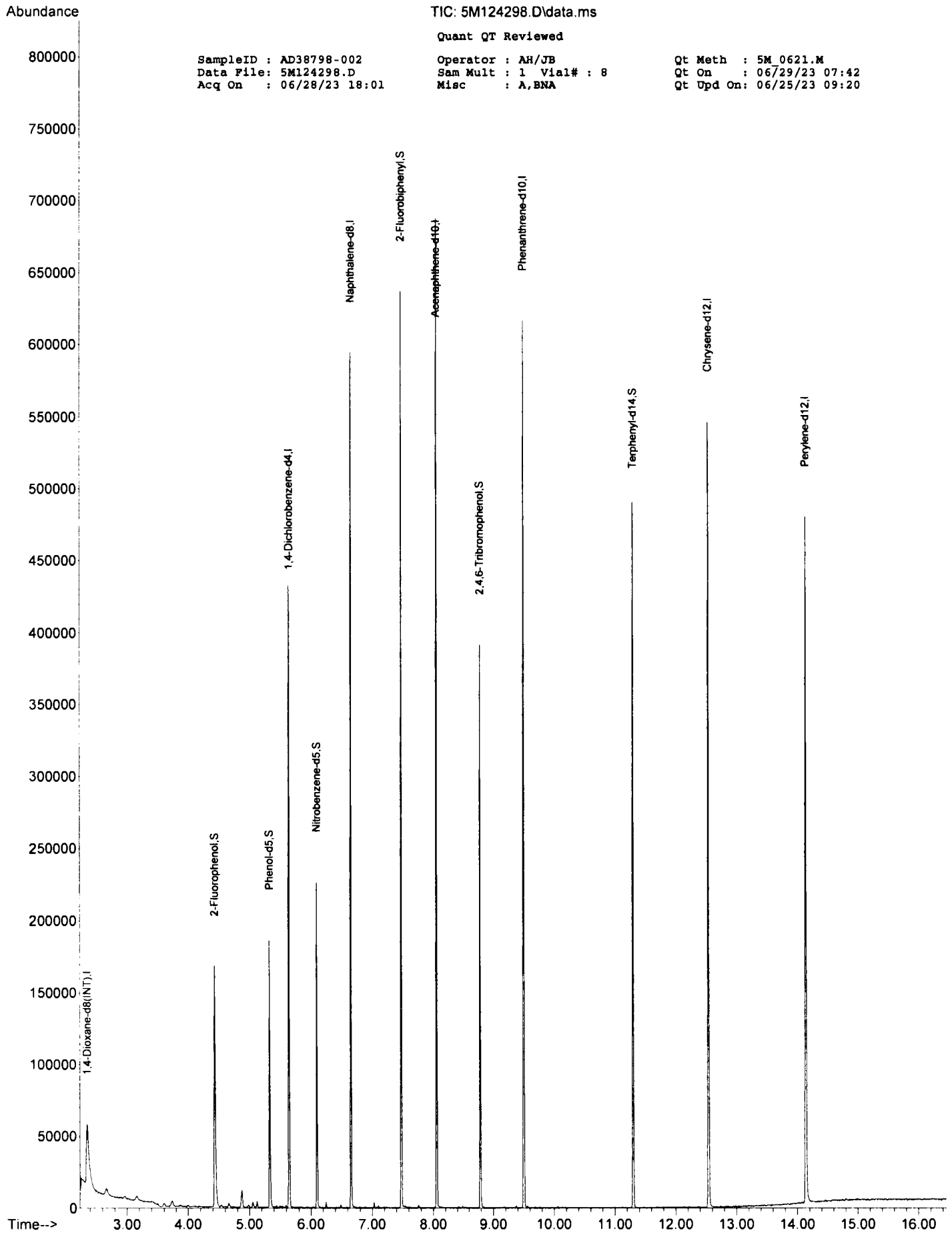
SampleID : AD38798-002 Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124298.D Sam Mult : 1 Vial# : 8 Qt On : 06/29/23 07:42
Acq On : 06/28/23 18:01 Misc : A,BNA Qt Upd On: 06/25/23 09:20

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-28-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.355	96	48891	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.646	152	71426	40.00	ng	0.00
31) Naphthalene-d8	6.655	136	246889	40.00	ng	0.00
50) Acenaphthene-d10	8.055	164	136164	40.00	ng	0.00
77) Phenanthrene-d10	9.498	188	243116	40.00	ng	0.00
91) Chrysene-d12	12.537	240	206576	40.00	ng	0.00
103) Perylene-d12	14.140	264	188754	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.433	112	77373	35.95	ng	0.00
Spiked Amount 100.000			Recovery = 35.95%			
16) Phenol-d5	5.331	99	64396	24.45	ng	0.00
Spiked Amount 100.000			Recovery = 24.45%			
32) Nitrobenzene-d5	6.100	128	32066	31.06	ng	0.00
Spiked Amount 50.000			Recovery = 62.12%			
55) 2-Fluorobiphenyl	7.478	172	171611	35.22	ng	0.00
Spiked Amount 50.000			Recovery = 70.44%			
80) 2,4,6-Tribromophenol	8.787	330	40306	66.95	ng	0.00
Spiked Amount 100.000			Recovery = 66.95%			
94) Terphenyl-d14	11.303	244	158075	40.81	ng	0.00
Spiked Amount 50.000			Recovery = 81.62%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M124298.D\data.ms
Quant QT Reviewed
SampleID : AD38798-002
Data File: 5M124298.D
Acq On : 06/28/23 18:01
Operator : AH/JB
Sam Mult : 1 Vial# : 8
Misc : A,BNA
Qt Meth : 5M_0621.M
Qt On : 06/29/23 07:42
Qt Upd On: 06/25/23 09:20
1,4-Dioxane-d8(NT),I
2-Fluorophenol,S
Phenol-d5,S
Nitrobenzene-d5,S
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Quantitation Report (QT Reviewed)

SampleID : AD38798-004(MS:AD38 Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124299.D Sam Mult : 1 Vial# : 9 Qt On : 06/29/23 07:42
Acq On : 06/28/23 18:25 Misc : A,BNA Qt Upd On: 06/25/23 09:20

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-28-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.350	96	55597	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.646	152	76596	40.00	ng	0.00
31) Naphthalene-d8	6.655	136	260607	40.00	ng	0.00
50) Acenaphthene-d10	8.060	164	143211	40.00	ng	0.00
77) Phenanthrene-d10	9.503	188	259772	40.00	ng	0.00
91) Chrysene-d12	12.548	240	247941	40.00	ng	0.00
103) Perylene-d12	14.145	264	230506	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.433	112	106169m	43.38	ng	0.00
Spiked Amount 100.000			Recovery = 43.38%			
16) Phenol-d5	5.336	99	93803	31.32	ng	0.00
Spiked Amount 100.000			Recovery = 31.32%			
32) Nitrobenzene-d5	6.100	128	50100	45.97	ng	0.00
Spiked Amount 50.000			Recovery = 91.94%			
55) 2-Fluorobiphenyl	7.483	172	240112m	46.86	ng	0.00
Spiked Amount 50.000			Recovery = 93.72%			
80) 2,4,6-Tribromophenol	8.792	330	65857m	102.37	ng	0.00
Spiked Amount 100.000			Recovery = 102.37%			
94) Terphenyl-d14	11.303	244	235615	50.69	ng	0.00
Spiked Amount 50.000			Recovery = 101.38%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.387	88	71768m	48.7108	ng	
9) Pyridine	2.830	79	51765m	17.4810	ng	
10) N-Nitrosodimethylamine	2.756	74	123712m	55.1740	ng	
12) Benzaldehyde	5.272	77	116589m	54.3524	ng	
13) Aniline	5.363	93	257729m	74.6039	ng	
14) Pentachloroethane	5.400	117	68999m	72.0807	ng	
15) bis(2-Chloroethyl)ether	5.427	93	203018m	75.2530	ng	
17) Phenol	5.347	94	130517m	36.0293	ng	
18) 2-Chlorophenol	5.464	128	197614m	75.2000	ng	
19) N-Decane	5.507	57	184286m	66.7421	ng	
20) 1,3-Dichlorobenzene	5.592	146	224010m	74.1410	ng	
22) 1,4-Dichlorobenzene	5.656	146	233722m	77.6367	ng	
23) 1,2-Dichlorobenzene	5.785	146	219059m	77.3861	ng	
24) Benzyl alcohol	5.763	108	128696m	77.1734	ng	
25) bis(2-chloroisopropyl)...	5.875	45	171700m	55.4977	ng	
26) 2-Methylphenol	5.854	108	154441m	67.1861	ng	
27) Acetophenone	5.977	105	316899m	94.1234	ng	
28) Hexachloroethane	6.057	117	81958	76.5665	ng	89
29) N-Nitroso-di-n-propyla...	5.982	70	148962m	85.4023	ng	
30) 3&4-Methylphenol	5.982	108	156319m	64.8024	ng	
33) Nitrobenzene	6.116	77	217501m	87.8236	ng	
34) Isophorone	6.303	82	346767m	77.8996	ng	
35) 2-Nitrophenol	6.362	139	118509m	95.3203	ng	
36) 2,4-Dimethylphenol	6.394	107	164736m	71.4002	ng	
37) Benzoic Acid	6.474	105	64854m	45.1748	ng	
38) bis(2-Chloroethoxy)met...	6.468	93	240302m	85.6287	ng	
39) 2,4-Dichlorophenol	6.549	162	181774m	89.8213	ng	
40) 1,2,4-Trichlorobenzene	6.607	180	201726m	85.3130	ng	
41) Naphthalene	6.671	128	614931m	82.0049	ng	
42) 4-Chloroaniline	6.714	127	274564m	115.4051	ng	
43) Hexachlorobutadiene	6.757	225	111595m	82.5343	ng	
44) Caprolactam	6.987	113	24467m	38.5512	ng	
45) 4-Chloro-3-methylphenol	7.072	107	170285m	91.5143	ng	
46) 2-Methylnaphthalene	7.195	142	460534m	97.3642	ng	
47) 1-Methylnaphthalene	7.275	142	436393m	98.8061	ng	
48) Methylnaphthalenes (To...	7.275	142	902600m	197.6115	ng	
49) 1,1'-Biphenyl	7.564	154	551379m	93.2342	ng	
51) 1,2,4,5-Tetrachloroben...	7.329	216	217877m	92.9418	ng	
52) Hexachlorocyclopentadiene	7.313	237	93670	95.7666	ng	99
53) 2,4,6-Trichlorophenol	7.414	196	143741m	101.9390	ng	
54) 2,4,5-Trichlorophenol	7.446	196	148691m	98.3336	ng	
56) 2-Chloronaphthalene	7.590	162	389693m	88.8632	ng	
57) 1,4-Dimethylnaphthalene	7.863	156	334717m	91.3852	ng	
58) Dimethylnaphthalenes (...	7.863	156	335296	91.5433	ng	87
59) Diphenyl Ether	7.649	170	288729m	94.9825	ng	
60) 2-Nitroaniline	7.670	65	105885m	80.5840	ng	
61) Coumarin	7.852	146	169969m	95.8452	ng	
62) Acenaphthylene	7.938	152	616636m	100.5465	ng	
63) Dimethylphthalate	7.809	163	433336m	92.4345	ng	
64) 2,6-Dinitrotoluene	7.873	165	102861m	97.9753	ng	
65) Acenaphthene	8.087	153	406077m	93.6846	ng	

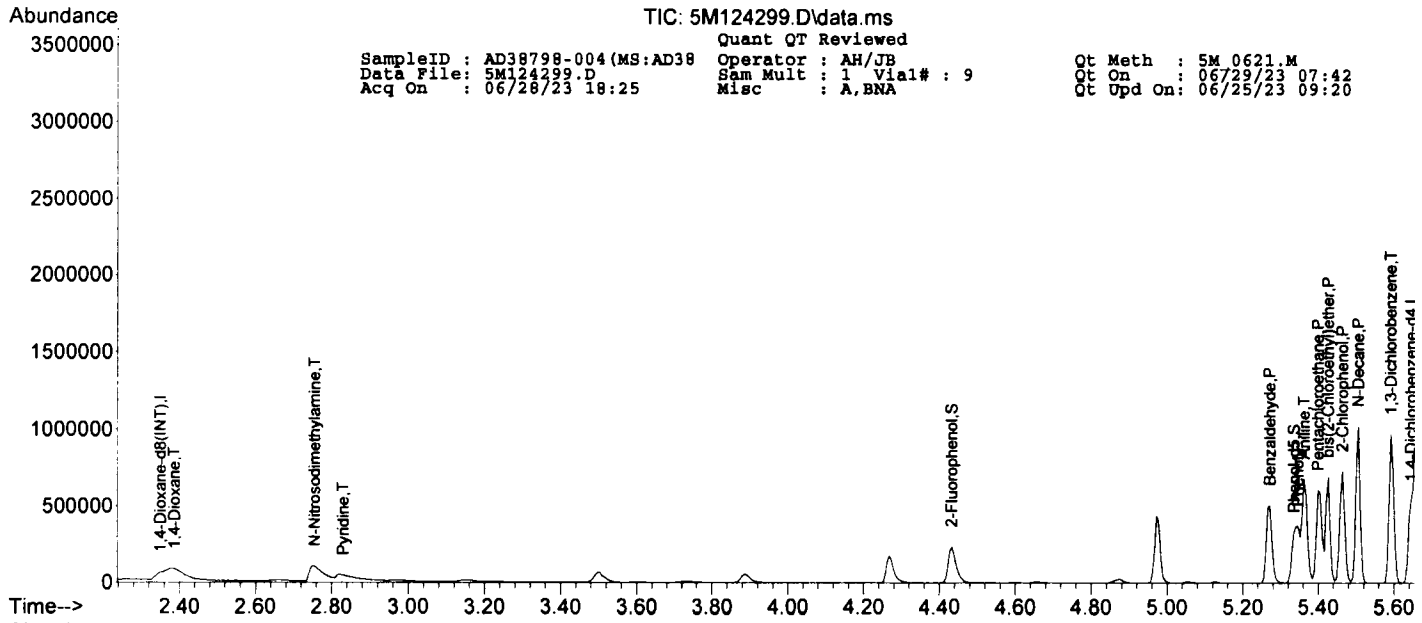
Quantitation Report (QT Reviewed)

SampleID : AD38798-004(MS:AD38 Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124299.D Sam Mult : 1 Vial# : 9 Qt On : 06/29/23 07:42
Acq On : 06/28/23 18:25 Misc : A,BNA Qt Upd On: 06/25/23 09:20

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-28-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.018	138	109700m	105.2632	ng	
67)	2,4-Dinitrophenol	8.109	184	59085m	107.2290	ng	
68)	Dibenzofuran	8.242	168	609374m	95.6067	ng	
69)	2,4-Dinitrotoluene	8.226	165	131886m	99.6277	ng	
70)	4-Nitrophenol	8.151	65	28509m	39.2060	ng	
71)	2,3,4,6-Tetrachlorophenol	8.349	232	121259m	98.7706	ng	
72)	Fluorene	8.557	166	484168m	95.9618	ng	
73)	4-Chlorophenyl-phenyle...	8.552	204	241564m	96.2425	ng	
74)	Diethylphthalate	8.434	149	435100m	97.3823	ng	
75)	4-Nitroaniline	8.579	138	107991m	93.8556	ng	
76)	Atrazine	9.193	200	122780m	96.9216	ng	
78)	4,6-Dinitro-2-methylph...	8.600	198	87508m	112.3940	ng	
79)	n-Nitrosodiphenylamine	8.664	169	300301m	73.8144	ng	
81)	1,2-Diphenylhydrazine	8.707	77	443291m	89.8502	ng	
82)	4-Bromophenyl-phenylether	9.033	248	136349m	96.5394	ng	
83)	Hexachlorobenzene	9.097	284	142638m	92.7115	ng	
84)	N-Octadecane	9.364	57	270303m	127.4260	ng	
85)	Pentachlorophenol	9.294	266	98539m	107.7336	ng	
86)	Phenanthrene	9.530	178	678595m	94.8565	ng	
87)	Anthracene	9.583	178	671373m	94.0749	ng	
88)	Carbazole	9.759	167	672578m	102.1310	ng	
89)	Di-n-butylphthalate	10.139	149	803943m	111.2291	ng	
90)	Fluoranthene	10.854	202	794745m	102.0835	ng	
92)	Pyrene	11.116	202	818504m	97.6193	ng	
97)	Butylbenzylphthalate	11.896	149	343596m	108.2969	ng	
99)	3,3'-Dichlorobenzidine	12.511	252	150507m	66.0053	ng	
100)	Benzo[a]anthracene	12.532	228	753357m	94.7511	ng	
101)	Chrysene	12.580	228	712592m	95.3550	ng	
102)	bis(2-Ethylhexyl)phtha...	12.585	149	466758m	104.0236	ng	
104)	Di-n-octylphthalate	13.339	149	775435m	100.3101	ng	
105)	Benzo[b]fluoranthene	13.745	252	740059	105.3426	ng	98
106)	Benzo[k]fluoranthene	13.777	252	738375m	105.7809	ng	
107)	Benzo[a]pyrene	14.092	252	645572m	104.7327	ng	
108)	Indeno[1,2,3-cd]pyrene	15.385	276	774817m	100.7351	ng	
109)	Dibenzo[a,h]anthracene	15.406	278	651757m	103.1001	ng	
110)	Benzo[g,h,i]perylene	15.737	276	603348m	97.2045	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed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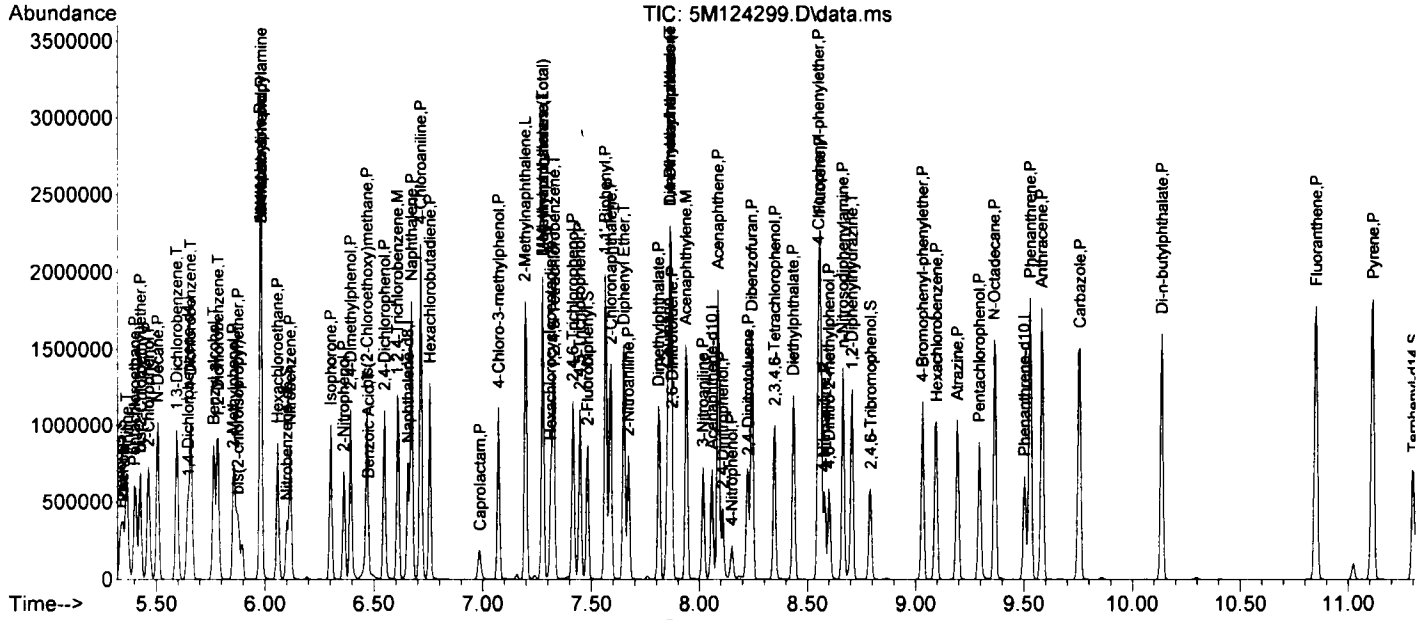
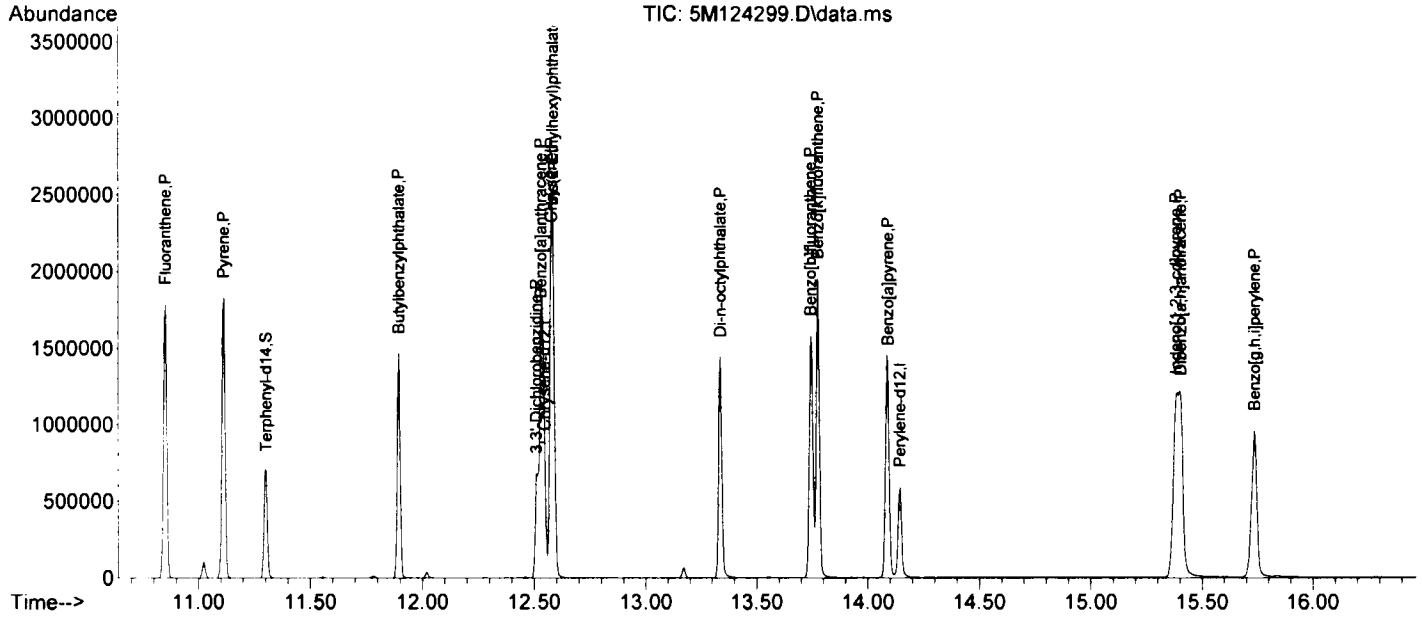
Quant QT Reviewed
SampleID : AD38798-004(MS:AD38
Data File: 5M124299.D
Acq On : 06/28/23 18:25
Operator : AH/JB
Sam Mult : 1 Vial# : 9
Misc : A,BNA
Qt Meth : 5M_0621.M
Qt On : 06729/23 07:42
Qt Upd On: 06/25/23 09:20
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Aniline,T
bis(2-Chloroethyl)ether,P
2-Chlorophenol,P
N-Decane,P
1,3-Dichlorobenzene,T
Time-->


Abundance
TIC: 5M124299.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Methylnaphthalene,I
Hexachlorocyclopentadiene,T
2-Fluorobiphenyl,S
Acenaphthylene,M
Acenaphthene,P
Dibenzofuran,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Pyrene,P
Time-->


Abundance
TIC: 5M124299.D\data.ms
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
Benzo[a]anthracene,P
Chrysene,P
Di-n-octylphthalate,P
Benzo[b]fluoranthene,P
Benzo[k]fluoranthene,P
Benzo[a]pyrene,P
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,P
Dibenz[a,h]anthracene,P
Benzo[g,h,i]perylene,P
Time-->

Quantitation Report (QT Reviewed)

SampleID : AD38798-005(MSD:AD3 Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124300.D Sam Mult : 1 Vial# : 10 Qt On : 06/29/23 07:42
Acq On : 06/28/23 18:49 Misc : A,BNA Qt Upd On: 06/25/23 09:20

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-28-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.355	96	55921	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.646	152	78906	40.00	ng	0.00
31) Naphthalene-d8	6.655	136	271401	40.00	ng	0.00
50) Acenaphthene-d10	8.060	164	148246	40.00	ng	0.00
77) Phenanthrene-d10	9.503	188	268514	40.00	ng	0.00
91) Chrysene-d12	12.548	240	256415m	40.00	ng	0.00
103) Perylene-d12	14.145	264	238049	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.433	112	109758m	44.59	ng	0.00
Spiked Amount 100.000			Recovery = 44.59%			
16) Phenol-d5	5.336	99	90744	30.13	ng	0.00
Spiked Amount 100.000			Recovery = 30.13%			
32) Nitrobenzene-d5	6.100	128	49209	43.36	ng	0.00
Spiked Amount 50.000			Recovery = 86.72%			
55) 2-Fluorobiphenyl	7.483	172	243457m	45.90	ng	0.00
Spiked Amount 50.000			Recovery = 91.80%			
80) 2,4,6-Tribromophenol	8.792	330	67566m	101.61	ng	0.00
Spiked Amount 100.000			Recovery = 101.61%			
94) Terphenyl-d14	11.303	244	238470	49.60	ng	0.00
Spiked Amount 50.000			Recovery = 99.20%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.392	88	62533m	42.1968	ng	
9) Pyridine	2.809	79	182128m	61.1480	ng	
10) N-Nitrosodimethylamine	2.756	74	115061m	51.0184	ng	
12) Benzaldehyde	5.272	77	114219m	52.9390	ng	
13) Aniline	5.363	93	303074m	87.2215	ng	
14) Pentachloroethane	5.405	117	69181m	71.8521	ng	
15) bis(2-Chloroethyl)ether	5.427	93	205005m	75.5493	ng	
17) Phenol	5.347	94	128533m	35.2760	ng	
18) 2-Chlorophenol	5.464	128	207757m	78.6018	ng	
19) N-Decane	5.507	57	182237m	65.6176	ng	
20) 1,3-Dichlorobenzene	5.592	146	223213m	73.4492	ng	
22) 1,4-Dichlorobenzene	5.662	146	229397m	73.9693	ng	
23) 1,2-Dichlorobenzene	5.785	146	218406m	74.8967	ng	
24) Benzyl alcohol	5.763	108	123822m	72.0770	ng	
25) bis(2-chloroisopropyl)...	5.875	45	173416m	54.4114	ng	
26) 2-Methylphenol	5.859	108	171071m	72.2419	ng	
27) Acetophenone	5.982	105	317044m	91.4097	ng	
28) Hexachloroethane	6.057	117	81353	73.7763	ng	87
29) N-Nitroso-di-n-propyla...	5.982	70	152250m	84.7320	ng	
30) 3&4-Methylphenol	5.982	108	168801m	67.9282	ng	
33) Nitrobenzene	6.116	77	220243m	85.3938	ng	
34) Isophorone	6.303	82	356068m	76.8078	ng	
35) 2-Nitrophenol	6.362	139	120444m	93.0238	ng	
36) 2,4-Dimethylphenol	6.394	107	191930m	79.8783	ng	
37) Benzoic Acid	6.468	105	60081m	40.6318	ng	
38) bis(2-Chloroethoxy)met...	6.468	93	246785m	84.4413	ng	
39) 2,4-Dichlorophenol	6.549	162	192923m	91.5390	ng	
40) 1,2,4-Trichlorobenzene	6.613	180	204699	83.1273	ng	95
41) Naphthalene	6.671	128	623706	79.8671	ng	98
42) 4-Chloroaniline	6.714	127	278425	112.3736	ng	97
43) Hexachlorobutadiene	6.757	225	112508	79.9002	ng	96
44) Caprolactam	6.987	113	23842m	36.0724	ng	
45) 4-Chloro-3-methylphenol	7.072	107	188146	97.0917	ng	75
46) 2-Methylnaphthalene	7.195	142	459008m	93.1821	ng	
47) 1-Methylnaphthalene	7.275	142	428014m	93.0547	ng	
48) Methylnaphthalenes (To...	7.275	142	889490m	186.9961	ng	
49) 1,1'-Biphenyl	7.564	154	544642m	88.4323	ng	
51) 1,2,4,5-Tetrachloroben...	7.328	216	216783m	89.3343	ng	
52) Hexachlorocyclopentadiene	7.312	237	104552	101.9627	ng	100
53) 2,4,6-Trichlorophenol	7.414	196	148027m	101.4131	ng	
54) 2,4,5-Trichlorophenol	7.446	196	154666m	98.8110	ng	
56) 2-Chloronaphthalene	7.590	162	398488m	87.7825	ng	
57) 1,4-Dimethylnaphthalene	7.863	156	339634	89.5783	ng	85
58) Dimethylnaphthalenes (...	7.863	156	339634	89.5783	ng	85
59) Diphenyl Ether	7.649	170	293122m	93.1526	ng	
60) 2-Nitroaniline	7.670	65	108350m	79.6593	ng	
61) Coumarin	7.852	146	173167m	94.3321	ng	
62) Acenaphthylene	7.938	152	625039m	98.4552	ng	
63) Dimethylphthalate	7.815	163	446494m	92.0065	ng	
64) 2,6-Dinitrotoluene	7.868	165	104347m	96.0150	ng	
65) Acenaphthene	8.087	153	410801m	91.5556	ng	

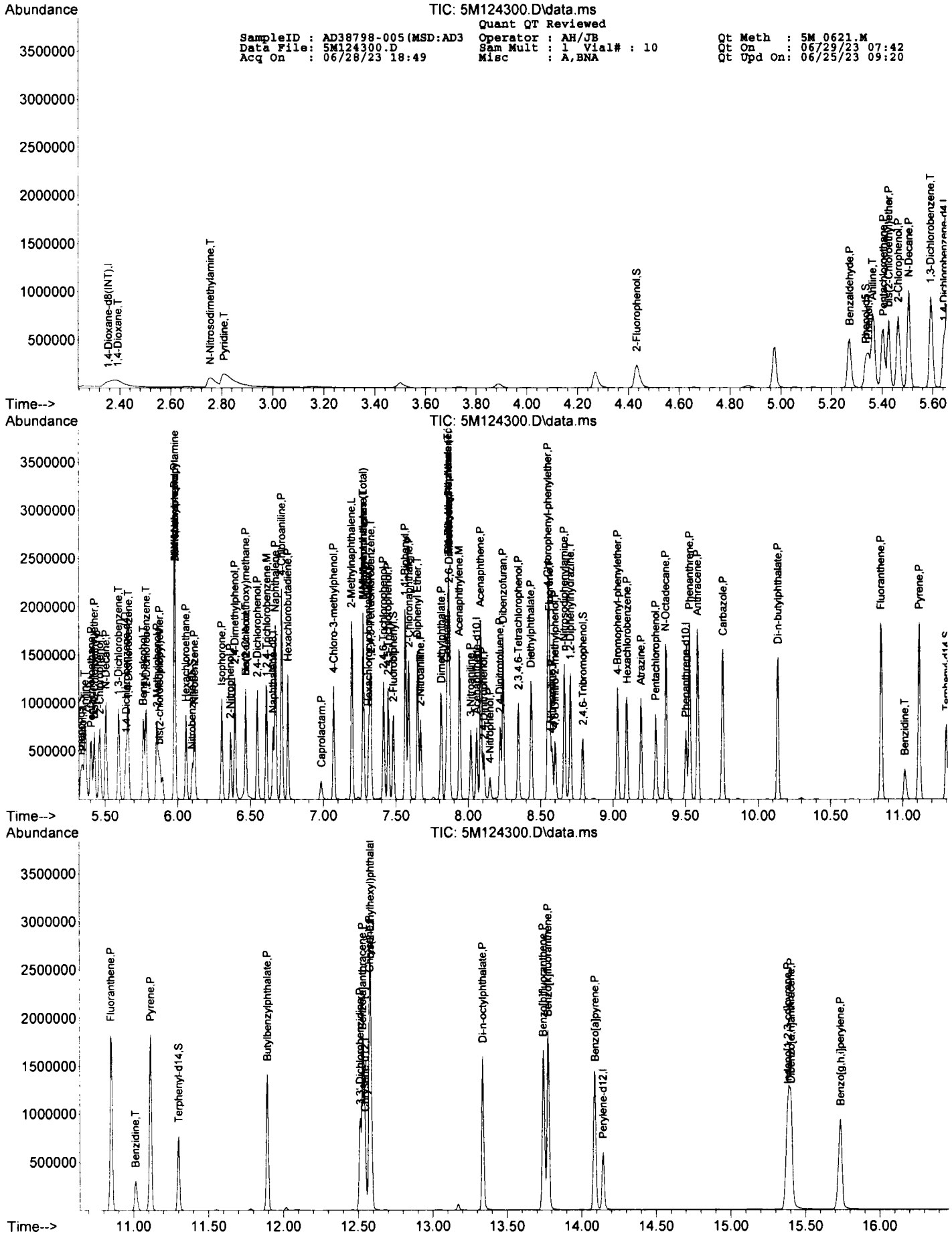
Quantitation Report (QT Reviewed)

SampleID : AD38798-005(MSD:AD3 Operator : AH/JB Qt Meth : 5M_0621.M
Data File: 5M124300.D Sam Mult : 1 Vial# : 10 Qt On : 06/29/23 07:42
Acq On : 06/28/23 18:49 Misc : A,BNA Qt Upd On: 06/25/23 09:20

Data Path : G:\GcMsData\2023\GCMS_5\Data\06-28-23\
Qt Path : G:\GCMSDATA\2023\GCMS_5\METHODQT\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.018	138	113034m	104.7786	ng	
67)	2,4-Dinitrophenol	8.108	184	63566m	110.4481	ng	
68)	Dibenzofuran	8.242	168	621165m	94.1467	ng	
69)	2,4-Dinitrotoluene	8.221	165	136586m	99.6738	ng	
70)	4-Nitrophenol	8.151	65	29933m	39.7662	ng	
71)	2,3,4,6-Tetrachlorophenol	8.349	232	123265m	96.9944	ng	
72)	Fluorene	8.563	166	494195m	94.6224	ng	
73)	4-Chlorophenyl-phenyle...	8.552	204	247896m	95.4108	ng	
74)	Diethylphthalate	8.434	149	443731m	95.9410	ng	
75)	4-Nitroaniline	8.579	138	109172m	91.6594	ng	
76)	Atrazine	9.193	200	123560m	94.2246	ng	
78)	4,6-Dinitro-2-methylph...	8.600	198	89881m	111.8117	ng	
79)	n-Nitrosodiphenylamine	8.664	169	325519m	77.4081	ng	
81)	1,2-Diphenylhydrazine	8.707	77	454268m	89.0775	ng	
82)	4-Bromophenyl-phenylether	9.033	248	140234m	96.0575	ng	
83)	Hexachlorobenzene	9.097	284	145702m	91.6198	ng	
84)	N-Octadecane	9.364	57	274976m	125.4086	ng	
85)	Pentachlorophenol	9.294	266	96431m	103.0671	ng	
86)	Phenanthrene	9.530	178	683044m	92.3699	ng	
87)	Anthracene	9.583	178	695492m	94.2817	ng	
88)	Carbazole	9.759	167	665531m	97.7706	ng	
89)	Di-n-butylphthalate	10.139	149	800787	107.1854	ng	97
90)	Fluoranthene	10.849	202	805783	100.1317	ng	93
92)	Pyrene	11.116	202	819189m	94.4722	ng	
93)	Benzidine	11.015	184	115232m	35.6055	ng	
97)	Butylbenzylphthalate	11.896	149	343946m	104.8246	ng	
99)	3,3'-Dichlorobenzidine	12.516	252	201370m	85.3929	ng	
100)	Benzo[a]anthracene	12.532	228	768480m	93.4590	ng	
101)	Chrysene	12.580	228	715686m	92.6041	ng	
102)	bis(2-Ethylhexyl)phtha...	12.585	149	476662m	102.7201	ng	
104)	Di-n-octylphthalate	13.339	149	793987	99.6104	ng	100
105)	Benzo[b]fluoranthene	13.745	252	739905	101.9834	ng	99
106)	Benzo[k]fluoranthene	13.777	252	727367m	100.9020	ng	
107)	Benzo[a]pyrene	14.092	252	668162m	104.9628	ng	
108)	Indeno[1,2,3-cd]pyrene	15.385	276	776135m	97.7090	ng	
109)	Dibenzo[a,h]anthracene	15.406	278	642371m	98.3955	ng	
110)	Benzo[g,h,i]perylene	15.737	276	607644m	94.7946	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed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Quant QT Reviewed
SampleID : AD38798-005(MSD:AD3
Data File: 5M124300.D
Acq On : 06/28/23 18:49
Operator : AH/JB
Sam Mult : 1 Vial# : 10
Misc : A,BNA
Qt Meth : 5M_0621.M
Qt On : 06/29/23 07:42
Qt Upd On: 06/25/23 09:20
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Aniline,T
2-Chlorophenol,P
N-Decane,P
1,3-Dichlorobenzene,T
Time-->

Abundance
TIC: 5M124300.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
Acenaphthylene,P
Acenaphthene,P
Dibenzofuran,P
Diethylphthalate,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->

Abundance
TIC: 5M124300.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

GC/MS Base Neutral/Acid Extractable Data
Logbook Data

QC109448

Hampton-Clarke

Extraction of Semi-volatile – Aqueous
Method 3510 C

Batch No.: 109448
Start extraction time: 9:00 AM
End extraction time: _____
Recirculator: Start temp: 20.0, 15.0
End temp: 20.0, 14.9

Date: 06/28/2023
Shaker Used: 2, 3, 4
Condenser used: 1, 2, 5
Condenser Flow: 2500 CCM

Sample Number	# In Batch	Initial Volume	Final Volume	pH Verif NaOH ≥12	pH Verif H_2SO_4 <2	Fraction BN	Fraction BNA	Fraction AE	Extracted By/ Comments TCLP/SPLP Extract Fluid	Ext by	QC
MB 109448	x	1000	1.0	X	X		X			PP	
MBS 109448	x	↓	↓	↓	↓		↓				
MS 38798-004	x										
MSD 38798-005	x										
AD 38798-002	1										
006	2										
007	3	↓	↓		↓		↓				
001	4	500	0.5			X					
003	5	↓	↓			↓					
AD 38818-023	6	1000	1.0	↓		↓					
BNA MDL-1	x	↓	↓	↓	X		X				
SIM MDL-1	x	↓	↓	↓	↓		↓				

Spike Standard

Vol (µl)	Conc. (ppm/ppb)	Lot No.	
50	2000	15124	BN Mix
↓	↓	15283	Acid comP
↓	↓	15125	Toxic Mix
↓	↓	396428	CLP Mix
100	Various	397404	BNA MDL SpikeMix
↓	↓	397392	Sim MDL Spike Mix

Surrogate Standard

Vol (µl)	Conc. (ppm/ppb)	Lot No.	
50	1000/2000	376954	BNA Surr

Reagent Lots: $MeCl_2$ 15357 Acetone _____ Hexane _____ baked Na_2SO_4 398096
10N NaOH 397757 H_2SO_4 15245 Other _____

Relinquished By: PP Date: 06/28/2023

Received By: MP Date: 06/29/23

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QC109448

Hampton-Clarke

Extraction of Semi-volatile – Aqueous
Method 3510 C

Batch No.: 109448
Start extraction time: 9:00 AM
End extraction time: _____
Recirculator: Start temp: 20.0, 15.0
End temp: 20.0, 14.9

Date: 06/28/2023
Shaker Used: 2, 3, 4
Condenser used: 1, 2, 5
Condenser Flow: 2500 CCM

Sample Number	# In Batch	Initial Volume	Final Volume	pH Verif NaOH ≥12	pH Verif H_2SO_4 <2	Fraction BN	Fraction BNA	Fraction AE	Extracted By/ Comments TCLP/SPLP Extract Fluid	Ext by	QC
MB 109448	x	1000	1.0	X	X		X			PP	
MBS 109448	x	↓	↓	↓	↓		↓				
MS 38798-004	x										
MSD 38798-005	x										
AD 38798-002	1										
006	2										
007	3	↓	↓		↓		↓				
001	4	500	0.5			X					
003	5	↓	↓			↓					
AD 38818-023	6	1000	1.0	↓		↓					
BNA MDL-1	x	↓	↓	↓	X		X				
SIM MDL-1	x	↓	↓	↓	↓		↓				

Spike Standard

Vol (µl)	Conc. (ppm/ppb)	Lot No.	
50	2000	15124	BN Mix
↓	↓	15283	Acid comP
		15125	Toxic Mix
↓	↓	396428	CLP Mix
100	Various	397404	BNA MDL SpikeMix
↓	↓	397392	Sim MDL Spike Mix

Surrogate Standard

Vol (µl)	Conc. (ppm/ppb)	Lot No.	
50	1000/2000	376954	BNA S222

Reagent Lots: $MeCl_2$ 15357 Acetone _____ Hexane _____ baked Na_2SO_4 398096

10N NaOH 397757 H_2SO_4 15245 Other _____

Relinquished By: PP Date: 06/28/2023

Received By: MP Date: 06/29/23

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QC109448

Hampton-Clarke

Extraction of Semi-volatile – Aqueous
Method 3510 C

Batch No.: 109448
Start extraction time: 9:00 AM
End extraction time: _____
Recirculator: Start temp: 20.0, 15.0
End temp: 20.0, 14.9

Date: 06/28/2023
Shaker Used: 2, 3, 4
Condenser used: 1, 2, 5
Condenser Flow: 2500 CCM

Sample Number	# In Batch	Initial Volume	Final Volume	pH Verif NaOH ≥12	pH Verif H_2SO_4 <2	Fraction BN	Fraction BNA	Fraction AE	Extracted By/ Comments TCLP/SPLP Extract Fluid	Ext by	QC
MB 109448	x	1000	1.0	x	x		x			PP	
MBS 109448	x	↓	↓	↓	↓		↓				
MS 38798-004	x										
MSD 38798-005	x										
AD 38798-002	1										
006	2										
007	3	↓	↓		↓		↓				
001	4	500	0.5			x					
003	5	↓	↓			↓					
AD 38818-023	6	1000	1.0	↓		↓					
BNA MDL-1	x	↓	↓	↓	x		x				
SIM MDL-1	x	↓	↓	↓	↓		↓				

Spike Standard

Vol (µl)	Conc. (ppm/ppb)	Lot No.	
50	2000	15124	BN Mix
↓	↓	15283	Acid comp
		15125	Toxic Mix
↓	↓	396428	CLP Mix
100	Various	397404	BNA MDL Spike Mix
↓	↓	397392	Sim MDL Spike Mix

Surrogate Standard

Vol (µl)	Conc. (ppm/ppb)	Lot No.	
50	1000/2000	376954	BNA Surr

Reagent Lots: $MeCl_2$ 15357 Acetone _____ Hexane _____ baked Na_2SO_4 398096

10N NaOH 397757 H_2SO_4 15245 Other _____

Relinquished By: PP Date: 06/28/2023

Received By: MP Date: 06/29/23

T:\QC\FORMS\LOGBOOK FORMS\extractions\BN Aqu Ext Log 2022.doc

RUN LOG

1-1-5M124255

Instrument: GCMS_5 Year: 2023
Analyst: AH/JB

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
5M124255.	CAL DFTPP	Ee1=1.1;Ed1=0.14;	OK, V-395403	AH 06/22/23		Aqueous	1	1		06/21 11:53
5M124256.	CAL BNA@2PPM		OK, V-397599	AH 06/22/23		Aqueous	1	1	625\8270	06/21 12:17
5M124257.	CAL BNA@10PPM		OK, V-397591	AH 06/22/23		Aqueous	1	1	625\8270	06/21 12:41
5M124258.	CAL BNA@196PPM		OK, V-397597	AH 06/22/23		Aqueous	1	1	625\8270	06/21 13:04
5M124259.	CAL BNA@160PPM		OK, V-397596	AH 06/22/23		Aqueous	1	1	625\8270	06/21 13:28
5M124260.	CAL BNA@120PPM		OK, V-397595	AH 06/22/23		Aqueous	1	1	625\8270	06/21 13:52
5M124261.	CAL BNA@80PPM		OK, V-397594	AH 06/22/23		Aqueous	1	1	625\8270	06/21 14:16
5M124262.	CAL BNA@20PPM		OK, V-397592	AH 06/22/23		Aqueous	1	1	625\8270	06/21 14:39
5M124263.	CAL BNA@0.5PPM		OK, V-397600	AH 06/22/23		Aqueous	1	1	625\8270	06/21 15:03
5M124264.	CAL BNA@50PPM		OK, V-397593	AH 06/22/23		Aqueous	1	1	625\8270	06/21 15:27
5M124265.	ICV BNA@50PPM	Is	OK, V-397602	AH 06/22/23		Aqueous	1	1	625\8270	06/21 15:55

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
An	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 ... not checked
BBm	Blank 8000 series missing	Etn	Tolo/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for anh
BBm	Blank 8000 series missing	Eto	Tolo Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C1B	Calibration Column 1 Out (800 Series)	Hb	Analysis Before Collection Date	Evm	Eval Mix missing ddt or endrin
C1B	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R1B R2B	Rnd Out on MsMsd (col1 and or col2) 800 series
C2B	Calibration Column 2 Out (800 Series)	I1B I2B	Initial cal 600 series failed Column 1 and or 2	R1B R2B	Rnd Out on MsMsd (col1 and or col2) 8000 series
C2B	Calibration Column 2 Out (8000 Series)	I1B I2B	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C8f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Ddft
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmtl.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Endrin Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

1-1-5M124291

Instrument: GCMS_5 Year: 2023
Analyst: AH/JB

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
5M124291.	CAL DFTPP	Ee1=18;Ed1=0.071;	OK, V-395403	AH 06/29/23		Aqueous	1	1		06/28 14:46
5M124292.	CAL BNA@50PPM		OK, V-397593	AH 06/29/23		Aqueous	1	1	625\8270	06/28 15:10
5M124293.	WMB109448(MS)		OK WMB109448	AH 06/29/23		Aqueous	1	1	625\8270	06/28 15:34
5M124294.	WMB109448		OK	AH 06/29/23		Aqueous	1	1	625\8270	06/28 15:58
5M124295.	MDL-3 (AQ)		OK	AH 06/29/23		Aqueous	1	1	625\8270	06/28 16:22
5M124296.	OMB109445(MS)		OK OMB109445	AH 06/29/23		Oil/Other	1	1	8270E	06/28 17:13
5M124297.	OMB109445		OK	AH 06/29/23		Oil/Other	1	1	8270E	06/28 17:37
5M124298.	AD38798-002		OK WMB109448	AH 06/29/23	BNA-8270	Aqueous	1	1	625\8270	06/28 18:01
5M124299.	AD38798-004(MS:AM16M18		OK WMB109448	AH 06/29/23	BNA-8270	Aqueous	1	1	625\8270	06/28 18:25
5M124300.	AD38798-005(MSD:R16		OK WMB109448	AH 06/29/23	BNA-8270	Aqueous	1	1	625\8270	06/28 18:49
5M124301.	AD38798-001		OK	AH 06/29/23	BNPAH-8270	Aqueous	1	1	8270E	06/28 19:13
5M124302.	AD38798-003		OK	AH 06/29/23	BNPAH-8270	Aqueous	1	1	8270E	06/28 19:38
5M124303.	AD38798-006		OK	AH 06/29/23	BNA-8270	Aqueous	1	1	8270E	06/28 20:02
5M124304.	AD38798-007		OK	AH 06/29/23	BNA-8270	Aqueous	1	1	8270E	06/28 20:25
5M124305.	AD38818-023		OK	AH 06/29/23	BNPAH-8270	Aqueous	1	1	8270E	06/28 20:49

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B8m	Blank 8000 series missing	Etn	Tcln/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for anh
B8m	Blank 8000 series missing	Eto	Tcln Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C1B	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C1B	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C2B	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C2B	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C8f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt csv for init calibration chek rls	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a samol	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

Instrument: GCMS_5 Year: 2023
Analyst: AH/JB

1-1-5M124255

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
5M124255.	CAL DFTPP	Ee1=1.1;Ed1= 0.14;	OK, V-395403	AH 06/22/23		Aqueous	1	1		06/21 11:53
5M124256.	CAL BNA@2PPM		OK, V-397599	AH 06/22/23		Aqueous	1	1	625\8270	06/21 12:17
5M124257.	CAL BNA@10PPM		OK, V-397591	AH 06/22/23		Aqueous	1	1	625\8270	06/21 12:41
5M124258.	CAL BNA@196PPM		OK, V-397597	AH 06/22/23		Aqueous	1	1	625\8270	06/21 13:04
5M124259.	CAL BNA@160PPM		OK, V-397596	AH 06/22/23		Aqueous	1	1	625\8270	06/21 13:28
5M124260.	CAL BNA@120PPM		OK, V-397595	AH 06/22/23		Aqueous	1	1	625\8270	06/21 13:52
5M124261.	CAL BNA@80PPM		OK, V-397594	AH 06/22/23		Aqueous	1	1	625\8270	06/21 14:16
5M124262.	CAL BNA@20PPM		OK, V-397592	AH 06/22/23		Aqueous	1	1	625\8270	06/21 14:39
5M124263.	CAL BNA@0.5PPM		OK, V-397600	AH 06/22/23		Aqueous	1	1	625\8270	06/21 15:03
5M124264.	CAL BNA@50PPM		OK, V-397593	AH 06/22/23		Aqueous	1	1	625\8270	06/21 15:27
5M124265.	ICV BNA@50PPM	Is	OK, V-397602	AH 06/22/23		Aqueous	1	1	625\8270	06/21 15:55

Anc	Area Not Checked	Fe	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Fsm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Ftn	Trdn/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for epb
B8m	Blank 8000 series missing	Etn	Trdn Extraction Performed Outside of Hold	FvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Fv	Eval Time Exceeded	Fvnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hh	Analysis Before Collection Date	Fvm	Eval Mix missing dpfr or epdpp
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt csv for init calibration chek rls	S6	600 series surrogate out
Cme	Endinp Cal missing for sample (8000 series)	Iw	Initial cal warning Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

1-1-5M124291

Instrument: GCMS_5 Year: 2023
Analyst: AH/JB

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
5M124291.	CAL DFTPP	Ee1=18;Ed1=0.071;	OK, V-395403	AH 06/29/23		Aqueous	1	1		06/28 14:46
5M124292.	CAL BNA@50PPM		OK, V-397593	AH 06/29/23		Aqueous	1	1	625\8270	06/28 15:10
5M124293.	WMB109448(MS)		OK WMB109448	AH 06/29/23		Aqueous	1	1	625\8270	06/28 15:34
5M124294.	WMB109448		OK	AH 06/29/23		Aqueous	1	1	625\8270	06/28 15:58
5M124295.	MDL-3 (AQ)		OK	AH 06/29/23		Aqueous	1	1	625\8270	06/28 16:22
5M124296.	OMB109445(MS)		OK OMB109445	AH 06/29/23		Oil/Other	1	1	8270E	06/28 17:13
5M124297.	OMB109445		OK	AH 06/29/23		Oil/Other	1	1	8270E	06/28 17:37
5M124298.	AD38798-002		OK WMB109448	AH 06/29/23	BNA-8270	Aqueous	1	1	625\8270	06/28 18:01
5M124299.	AD38798-004(MS:AM16M18		OK WMB109448	AH 06/29/23	BNA-8270	Aqueous	1	1	625\8270	06/28 18:25
5M124300.	AD38798-005(MSD:R16		OK WMB109448	AH 06/29/23	BNA-8270	Aqueous	1	1	625\8270	06/28 18:49
5M124301.	AD38798-001		OK	AH 06/29/23	BNPAH-8270	Aqueous	1	1	8270E	06/28 19:13
5M124302.	AD38798-003		OK	AH 06/29/23	BNPAH-8270	Aqueous	1	1	8270E	06/28 19:38
5M124303.	AD38798-006		OK	AH 06/29/23	BNA-8270	Aqueous	1	1	8270E	06/28 20:02
5M124304.	AD38798-007		OK	AH 06/29/23	BNA-8270	Aqueous	1	1	8270E	06/28 20:25
5M124305.	AD38818-023		OK	AH 06/29/23	BNPAH-8270	Aqueous	1	1	8270E	06/28 20:49

Anc	Area Not Checked	Fo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Fsm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Ftn	Tcln/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for eph
B8m	Blank 8000 series missing	Fto	Tcln Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Fv	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rnd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rnd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Rn	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmpl.csv for init.calibration chek rds	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini.cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl.	Sa8.Sb8	Acid and or BN Surrogate Out (600 series)

RUN LOG

1-1-12M67038

Instrument: GCMS_12Year: 2023
Analyst: AH/JB

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
12M67038.	CAL DFTPP	Ee1=3.1;Ed1=0.39;	OK, V-395403	JB 05/23/23		Aqueous	1	1		05/18 08:59
12M67039.	CAL SIM@5PPM		OK, V-395641	JB 05/23/23		Aqueous	1	1	8270ESI	05/18 09:21
12M67040.	CAL SIM@5PPM		OK, V-395641	JB 05/23/23		Aqueous	1	1	8270ESI	05/18 09:55
12M67041.	CAL SIM@0.02PPM		OK, V-395643	JB 05/23/23		Aqueous	1	1	8270ESI	05/18 10:22
12M67042.	CAL SIM@0.1PPM		OK, V-395647	JB 05/23/23		Aqueous	1	1	8270ESI	05/18 10:43
12M67043.	CAL SIM@0.2PPM		OK, V-395644	JB 05/23/23		Aqueous	1	1	8270ESI	05/18 11:05
12M67044.	CAL SIM@0.5PPM		OK, V-395642	JB 05/23/23		Aqueous	1	1	8270ESI	05/18 11:27
12M67045.	CAL SIM@1PPM		OK, V-395645	JB 05/23/23		Aqueous	1	1	8270ESI	05/18 11:49
12M67046.	CAL SIM@10PPM		OK, V-395640	JB 05/23/23		Aqueous	1	1	8270ESI	05/18 12:10
12M67047.	CAL SIM@19.6PPM		OK, V-395639	JB 05/23/23		Aqueous	1	1	8270ESI	05/18 12:32
12M67048.	CAL SIM@5PPM		OK, V-395641	JB 05/23/23		Aqueous	1	1	8270ESI	05/18 12:53
12M67049.	ICV SIM@5PPM		OK, V-395648	JB 05/23/23		Aqueous	1	1	8270ESI	05/18 13:15
12M67050.	AD37540-007	Eo	OK	JB 05/23/23	BNP-SIM-827	Aqueous	1	1	8270ESI	05/18 14:03
12M67051.	AD37730-018	Ocf	RR 3X	JB 05/23/23	BN-SIM-8270	Soil	1	1	8270ESI	05/18 14:24
12M67052.	AD37730-018(3X)		OK	JB 05/23/23	BN-SIM-8270	Soil	3	3	8270ESI	05/18 14:46
12M67053.	SMB107419		OK	JB 05/23/23		Soil	1	1	8270ESI	05/18 15:07
12M67054.	SMB107512		OK	JB 05/23/23		Soil	1	1	8270ESI	05/18 15:28
12M67055.	SIM MDL(S)-3		OK	JB 05/23/23		Soil	1	1	8270ESI	05/18 15:50
12M67056.	SIM MDL(AQ)-3		OK	JB 05/23/23		Aqueous	1	1	8270ESI	05/18 16:11

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Eto	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for enh
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evm	Eval Mix missing ddt or enddp
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Diff
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt csv for init calibration chek rls	S6	600 series surrogate out
Cme	Endrop Cal missing for sample (8000 series)	Iw	Initial cal warning Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

1-1-12M67375

Instrument: GCMS_12Year: 2023
Analyst: AH/JB

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
12M67375.	CAL DFTPP	Ee1=3.9;Ed1=1.7;	OK, V-395403	AH 06/28/23		Aqueous	1	1		06/28 07:55
12M67376.	CAL SIM@5PPM		OK, V-395641	AH 06/28/23		Aqueous	1	1	8270ESI	06/28 08:21
12M67377.	TCCD STD@5PPM		OK, V-389400	AH 06/28/23		Aqueous	1	1	8270ESI	06/28 08:55
12M67378.	WMB108930		OK	AH 06/28/23		Aqueous	1	1	8270ESI	06/28 09:16
12M67379.	AD38757-009	Sb8Ocf	OK	AH 06/28/23	BNP-SIM-827	Aqueous	1	1	8270ESI	06/28 09:37
12M67380.	AD38757-001		OK	AH 06/28/23	BNP-SIM-827	Aqueous	1	1	8270ESI	06/28 09:59
12M67381.	AD38757-002		OK	AH 06/28/23	BNP-SIM-827	Aqueous	1	1	8270ESI	06/28 10:21
12M67382.	AD38757-003	Sb8Ocf	OK	AH 06/28/23	BNP-SIM-827	Aqueous	1	1	8270ESI	06/28 10:42
12M67383.	AD38757-004		OK	AH 06/28/23	BNP-SIM-827	Aqueous	1	1	8270ESI	06/28 11:04
12M67384.	AD38757-005		OK	AH 06/28/23	BNP-SIM-827	Aqueous	1	1	8270ESI	06/28 11:26
12M67385.	AD38757-006		OK	AH 06/28/23	BNP-SIM-827	Aqueous	1	1	8270ESI	06/28 11:47
12M67386.	AD38757-007		OK	AH 06/28/23	BNP-SIM-827	Aqueous	1	1	8270ESI	06/28 12:09
12M67387.	AD38757-008		OK	AH 06/28/23	BNP-SIM-827	Aqueous	1	1	8270ESI	06/28 12:31
12M67388.	AD38796-001		OK	AH 06/28/23	BN-SIM-8270	Aqueous	1	1	8270ESI	06/28 12:53
12M67389.	AD38720-001	Ocf	OK	AH 06/28/23	BNP-SIM-827	Aqueous	1	1	8270ESI	06/28 13:14
12M67390.	AD38720-002		OK	AH 06/28/23	BNP-SIM-827	Aqueous	1	1	8270ESI	06/28 13:36
12M67391.	AD38720-003		OK	AH 06/28/23	BNP-SIM-827	Aqueous	1	1	8270ESI	06/28 13:58
12M67392.	AD38720-004		OK	AH 06/28/23	BNP-SIM-827	Aqueous	1	1	8270ESI	06/28 14:20
12M67393.	AD38720-005		OK	AH 06/28/23	BNP-SIM-827	Aqueous	1	1	8270ESI	06/28 14:41
12M67394.	WMB109448		OK	AH 06/28/23		Aqueous	1	1	8270ESI	06/28 15:03
12M67395.	MDL-3 (AQ)		OK	AH 06/28/23		Aqueous	1	1	8270ESI	06/28 15:25
12M67396.	AD38720-006		OK	AH 06/28/23	BNP-SIM-827	Aqueous	1	1	8270ESI	06/28 15:47
12M67397.	AD38720-007		OK	AH 06/28/23	BNP-SIM-827	Aqueous	1	1	8270ESI	06/28 16:09
12M67398.	AD38714-003(50X)	SdOc	RR 20X	AH 06/29/23	BN-SIM-8270	Aqueous	50	50	8270ESI	06/28 16:31
12M67399.	AD38798-002	Anc	OK	AH 06/28/23	BNA-SIM-827	Aqueous	1	1	625\8270	06/28 16:53
12M67400.	AD38798-006		OK	AH 06/28/23	BNA-SIM-827	Aqueous	1	1	8270ESI	06/28 17:14
12M67401.	AD38798-007		OK	AH 06/28/23	BNA-SIM-827	Aqueous	1	1	8270ESI	06/28 17:36

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Etn	Tcln/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for anh
B8m	Blank 8000 series missing	Eto	Tcln Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evm	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R18 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Endion Cal missing for sample (8000 series)	Iw	Initial cal warning Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-375729

Prepared By: Bis, Yolanta
Description: DFTPP STOCK STD.
Prep Date: 7/13/2022
Expiration Date: 7/13/2023
Department: Organics
BatchNumber:
Concentration: 2000 ppm
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 07/20/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
13602	DFTPP STD.	.01 g	NEAT neat	2000 ppm
13117	Methylene Chloride optima	5 ml	neat neat	

Veritech Lot Number: V-376959

Prepared By: Hamid, Akmal
Description: BNA Surrog.Std.
Prep Date: 7/28/2022
Expiration Date: 7/28/2023
Department: Organics
BatchNumber:
Concentration: 1000-2000 pp
Final Volume: 1000 ml
ApprovedBy: akmal
ApproveDate: 07/29/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
13086	2-Fluorobiphenyl	1 g	NEAT neat	1000 ppm
14141	p-Terphenyl-d14	1 g	NEAT neat	1000 ppm
12713	Phenol-2,3,4,5,6-d5	2 g	NEAT neat	2000 ppm
12019	2,4,6-Tribromophenol	2 g	NEAT neat	2000 ppm
12021	Nitrobenzene-d5	800 ul	NEAT neat	1000 ppm
12716	2-Fluorophenol	1.6 ml	NEAT neat	2000 ppm
14703	acetone	1000 ml	neat neat	

Veritech Lot Number: V-380073

Prepared By: Hamid, Akmal
Description: BNA-6 MIX
Prep Date: 9/15/2022
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
13494	Biphenyl	.05 g	NEAT neat	5000 ppm
14182	Coumarin	.05 g	NEAT neat	5000 ppm
13496	Octadecane	.05 g	NEAT neat	5000 ppm
12783	Pentachloroethane	.05 g	NEAT neat	5000 ppm
9435	1,4-Dimethylnaphthalene	.0518 g	95 %	5000 ppm
14183	n-Decane	.05 g	NEAT neat	5000 ppm
14765	dichloromethane	10 ml	neat neat	

Veritech Lot Number: V-380074

Prepared By: Hamid, Akmal
Description: BNA-7 MIX
Prep Date: 9/15/2022
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14808	2,3,4,6-Tetrachlorophenol	.05 g	NEAT neat	5000 ppm
13494	Biphenyl	.05 g	NEAT neat	5000 ppm
14182	Coumarin	.05 g	NEAT neat	5000 ppm
13496	Octadecane	.05 g	NEAT neat	5000 ppm
12783	Pentachloroethane	.05 g	NEAT neat	5000 ppm
9435	1,4-Dimethylnaphthalene	.0518 g	95 %	5000 ppm
14183	n-Decane	.05 g	NEAT neat	5000 ppm
14765	dichloromethane	10 ml	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-380075

Prepared By: Hamid, Akmal
Description: Benzaldehyde Std (2nd source)
Prep Date: 9/15/2022
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 25 ml
ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
9150	Benzaldehyde	.25 g	NEAT neat	10000 ppm
14801	acetone	25 ml	neat neat	

Veritech Lot Number: V-380076

Prepared By: Hamid, Akmal
Description: Benzaldehyde Std
Prep Date: 9/15/2022
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
9150	Benzaldehyde	.1 g	NEAT neat	10000 ppm
14765	dichloromethane	10 ml	neat neat	

Veritech Lot Number: V-380077

Prepared By: Hamid, Akmal
Description: BNA-Pest Mix(Danger)
Prep Date: 9/15/2022
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14187	4,4'-DDD	.05 g	NEAT neat	5000 ppm
13106	4,4' -DDE	.05 g	NEAT neat	5000 ppm
12842	4,4'-DDT	.05 g	NEAT neat	5000 ppm
14765	dichloromethane	10 ml	neat neat	

Veritech Lot Number: V-380192

Prepared By: Hamid, Akmal
Description: 8270 EXTRA MIX#1(1st Source)(DANG
Prep Date: 9/16/2022
Expiration Date: 8/30/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/16/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12844	Caprolactam	.1 g	NEAT neat	10000 ppm
12843	1,2,4,5-Tetrachlorobenzene	.1 g	NEAT neat	10000 ppm
14222	Atrazine	.1 g	NEAT neat	10000 ppm
11341	Acetophenone	.1 g	NEAT neat	10000 ppm
9149	Diphenyl Ether	.1 g	NEAT neat	10000 ppm
13821	1,4 Dioxane	.1 g	NEAT neat	10000 ppm
14802	Dichloromethane	10 ml	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-380193

Prepared By: Hamid, Akmal
Description: 8270 EXTRA MIX#1(2nd Source)(DAN
Prep Date: 9/16/2022
Expiration Date: 8/30/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 09/16/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12844	Caprolactam	.5 g	NEAT neat	10000 ppm
12843	1,2,4,5-Tetrachlorobenzene	.5 g	NEAT neat	10000 ppm
14222	Atrazine	.5 g	NEAT neat	10000 ppm
11341	Acetophenone	.5 g	NEAT neat	10000 ppm
9149	Diphenyl Ether	.5 g	NEAT neat	10000 ppm
14204	1- Methylnaphthalene	.5 g	NEAT neat	10000 ppm
13821	1,4 Dioxane	.5 g	NEAT neat	10000 ppm
14800	ACETONE	50 ml	neat neat	

Veritech Lot Number: V-392947

Prepared By: Bis, Yolanta
Description: Pyridine Stock Std.
Prep Date: 4/5/2023
Expiration Date: 4/5/2024
Department: Organics
BatchNumber:
Concentration: 10,000 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 04/11/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12769	Pyridine	10 ul	neat neat	10000 ppm
14864	Methylene Chloride Optima-4L	990 ul	NEAT neat	

Veritech Lot Number: V-394768

Prepared By: Hamid, Akmal
Description: BNA Internal Std.
Prep Date: 5/3/2023
Expiration Date: 5/3/2024
Department: Organics
BatchNumber:
Concentration: 2000 ppm
Final Volume: 500 ml
ApprovedBy: akmal
ApproveDate: 05/03/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15084	Naphthalene-D8	1 g	NEAT neat	2000 ppm
15086	Phenanthrene-d10	1 g	NEAT neat	2000 ppm
15087	Chrysene-d12	1 g	NEAT neat	2000 ppm
15088	Perylene-d12	1 g	NEAT neat	2000 ppm
13897	Acenaphthene-d10	1 g	NEAT neat	2000 ppm
12507	1,4-Dichlorobenzene-D4	1 g	NEAT neat	2000 ppm
15082	1,4 Dioxane-D8	1 g	NEAT neat	2000 ppm
14864	Methylene Chloride Optima-4L	500 ml	NEAT neat	

Veritech Lot Number: V-395403

Prepared By: Bis, Yolanta
Description: DFTPP Mix
Prep Date: 5/15/2023
Expiration Date: 7/13/2023
Department: Organics
BatchNumber:
Concentration: 50 ppm
Final Volume: 1.5 ml
ApprovedBy: akmal
ApproveDate: 05/17/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-375729	DFTPP STOCK STD.	25 ul	2000 ppm	50 ppm
15268	DDT - Endrin Mix	200 ul	500 ppm	100 ppm
14759	Phenolics Mix	50 ul	2000 ppm	100 ppm
14598	EPA TCL Benzidines Mix	50	2000 ppm	100 ppm
14864	Methylene Chloride Optima-4L	675 ul	NEAT neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-397589

Prepared By: Bis, Yolanta
Description: BNA STOCK Std.A (DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber:
Concentration: 250 ppm
Final Volume: 600 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14569	MEGAMIX	150 ul	1000 ppm	250 ppm
14570	BENZOIC ACID	75 ul	2000 ppm	250 ppm
15050	EPA TCL Benzidines Mix	75 ul	2000 ppm	250 ppm
V-376959	BNA Surrog.Std.	75 ul	1000-2000 pp	125-250 pp
V-380077	BNA-Pest Mix(Danger)	30 ul	5000 ppm	250 ppm
V-380073	BNA-6 MIX	30 ul	5000 ppm	250 ppm
14765	dichloromethane	165 ul	neat neat	

Veritech Lot Number: V-397590

Prepared By: Bis, Yolanta
Description: BNA STOCK Std.(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber:
Concentration: 200 ppm
Final Volume: 500 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397589	BNA STOCK Std.A (DANGER)	400 ul	250 ppm	250 ppm
V-380192	8270 EXTRA MIX#1(1st Source)(DANGER)	10 ul	10000 ppm	250 ppm
V-380076	Benzaldehyde Std	10 ul	10000 ppm	250 ppm
14765	dichloromethane	80 ul	neat neat	

Veritech Lot Number: V-397591

Prepared By: Bis, Yolanta
Description: BNA 10 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 10 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397590	BNA STOCK Std.(DANGER)	5 ul	200 ppm	10 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14765	dichloromethane	93 ul	neat neat	

Veritech Lot Number: V-397592

Prepared By: Bis, Yolanta
Description: BNA 20 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 20 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397590	BNA STOCK Std.(DANGER)	10 ul	200 ppm	20 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14765	dichloromethane	88 ul	neat neat	

Veritech Lot Number: V-397593

Prepared By: Bis, Yolanta
Description: BNA 50 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 50 ppm
Final Volume: 600 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397590	BNA STOCK Std.(DANGER)	150 ul	200 ppm	50 ppm
V-394768	BNA Internal Std.	12 ul	2000 ppm	40 ppm
14765	dichloromethane	438 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-397594

Prepared By: Bis, Yolanta
Description: BNA 80 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 80 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397590	BNA STOCK Std.(DANGER)	40 ul	200 ppm	80 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14765	dichloromethane	58 ul	neat neat	

Veritech Lot Number: V-397595

Prepared By: Bis, Yolanta
Description: BNA 120 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 120 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397590	BNA STOCK Std.(DANGER)	60 ul	200 ppm	120 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14765	dichloromethane	38 ul	neat neat	

Veritech Lot Number: V-397596

Prepared By: Bis, Yolanta
Description: BNA 160 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 160 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397590	BNA STOCK Std.(DANGER)	80 ul	200 ppm	160 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14765	dichloromethane	18 ul	neat neat	

Veritech Lot Number: V-397597

Prepared By: Bis, Yolanta
Description: BNA 196 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 196 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397590	BNA STOCK Std.(DANGER)	98 ul	200 ppm	196 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14765	dichloromethane	0	neat neat	

Veritech Lot Number: V-397598

Prepared By: Bis, Yolanta
Description: BNA 50 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 50 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397590	BNA STOCK Std.(DANGER)	25 ul	200 ppm	50 ppm
14765	dichloromethane	75 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-397599

Prepared By: Bis, Yolanta
Description: BNA 2 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 2 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397598	BNA 50 ppm curve(DANGER)	4 ul	50 ppm	2 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14765	dichloromethane	94 ul	neat neat	

Veritech Lot Number: V-397600

Prepared By: Bis, Yolanta
Description: BNA 0.5 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 0.5 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397598	BNA 50 ppm curve(DANGER)	1 ul	50 ppm	2 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14765	dichloromethane	97 ul	neat neat	

Veritech Lot Number: V-397601

Prepared By: Bis, Yolanta
Description: BNA STOCK Std.B(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber:
Concentration: 250 ppm
Final Volume: 600 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14446	Polynuclear Aromatic Hydrocarbons Mix.	75 ul	2000 ppm	250 ppm
15050	EPA TCL Benzidines Mix	75 ul	2000 ppm	250 ppm
14140	EPA TCL Hazardous subs. Mix	75 ul	2000 ppm	250 ppm
15169	EPA TCL BASE-NEUTRALS Mix	75 ul	2000 ppm	250 ppm
V-376959	BNA Surrog.Std.	75 ul	1000-2000 pp	125-250 pp
V-392947	Pyridine Stock Std.	15 ul	10,000 ppm	250 ppm
V-380074	BNA-7 MIX	30 ul	5000 ppm	250 ppm
14759	Phenolics Mix	75 ul	2000 ppm	250 ppm
14765	dichloromethane	180 ul	neat neat	

Veritech Lot Number: V-397602

Prepared By: Bis, Yolanta
Description: BNA ICV CAL@50ppm(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber:
Concentration: 50 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397601	BNA STOCK Std.B(DANGER)	40 ul	250 ppm	50 ppm
v-380193	8270 EXTRA MIX#1(2nd Source)(DANGER)	1 ul	10000 ppm	50 ppm
v-380075	Benzaldehyde Std (2nd source)	1 ul	10000 ppm	50 ppm
V-394768	BNA Internal Std.	4 ul	2000 ppm	40 ppm
14765	dichloromethane	154 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-376959

Prepared By: Hamid, Akmal
Description: BNA Surrog.Std.
Prep Date: 7/28/2022
Expiration Date: 7/28/2023
Department: Organics
BatchNumber:
Concentration: 1000-2000 pp
Final Volume: 1000 ml
ApprovedBy: akmal
ApproveDate: 07/29/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
13086	2-Fluorobiphenyl	1 g	NEAT neat	1000 ppm
14141	p-Terphenyl-d14	1 g	NEAT neat	1000 ppm
12713	Phenol-2,3,4,5,6-d5	2 g	NEAT neat	2000 ppm
12019	2,4,6-Tribromophenol	2 g	NEAT neat	2000 ppm
12021	Nitrobenzene-d5	800 ul	NEAT neat	1000 ppm
12716	2-Fluorophenol	1.6 ml	NEAT neat	2000 ppm
14703	acetone	1000 ml	neat neat	

Veritech Lot Number: V-380073

Prepared By: Hamid, Akmal
Description: BNA-6 MIX
Prep Date: 9/15/2022
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
13494	Biphenyl	.05 g	NEAT neat	5000 ppm
14182	Coumarin	.05 g	NEAT neat	5000 ppm
13496	Octadecane	.05 g	NEAT neat	5000 ppm
12783	Pentachloroethane	.05 g	NEAT neat	5000 ppm
9435	1,4-Dimethylnaphthalene	.0518 g	95 %	5000 ppm
14183	n-Decane	.05 g	NEAT neat	5000 ppm
14765	dichloromethane	10 ml	neat neat	

Veritech Lot Number: V-380075

Prepared By: Hamid, Akmal
Description: Benzaldehyde Std (2nd source)
Prep Date: 9/15/2022
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 25 ml
ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
9150	Benzaldehyde	.25 g	NEAT neat	10000 ppm
14801	acetone	25 ml	neat neat	

Veritech Lot Number: V-380076

Prepared By: Hamid, Akmal
Description: Benzaldehyde Std
Prep Date: 9/15/2022
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
9150	Benzaldehyde	.1 g	NEAT neat	10000 ppm
14765	dichloromethane	10 ml	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-380077

Prepared By: Hamid, Akmal
Department: Organics
ApprovedBy: akmal
Description: BNA-Pest Mix(Danger)
BatchNumber:
ApproveDate: 09/15/22
Prep Date: 9/15/2022
Concentration: 5000 ppm
Checked: Yes
Expiration Date: 9/15/2023
Final Volume: 10 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14187	4,4'-DDD	.05 g	NEAT neat	5000 ppm
13106	4,4' -DDE	.05 g	NEAT neat	5000 ppm
12842	4,4'-DDT	.05 g	NEAT neat	5000 ppm
14765	dichloromethane	10 ml	neat neat	

Veritech Lot Number: V-380192

Prepared By: Hamid, Akmal
Department: Organics
ApprovedBy: akmal
Description: 8270 EXTRA MIX#1(1st Source)(DANG
BatchNumber:
ApproveDate: 09/16/22
Prep Date: 9/16/2022
Concentration: 10000 ppm
Checked: Yes
Expiration Date: 8/30/2023
Final Volume: 10 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12844	Caprolactam	.1 g	NEAT neat	10000 ppm
12843	1,2,4,5-Tetrachlorobenzene	.1 g	NEAT neat	10000 ppm
14222	Atrazine	.1 g	NEAT neat	10000 ppm
11341	Acetophenone	.1 g	NEAT neat	10000 ppm
9149	Diphenyl Ether	.1 g	NEAT neat	10000 ppm
13821	1,4 Dioxane	.1 g	NEAT neat	10000 ppm
14802	Dichloromethane	10 ml	neat neat	

Veritech Lot Number: V-380193

Prepared By: Hamid, Akmal
Department: Organics
ApprovedBy: akmal
Description: 8270 EXTRA MIX#1(2nd Source)(DAN
BatchNumber:
ApproveDate: 09/16/22
Prep Date: 9/16/2022
Concentration: 10000 ppm
Checked: Yes
Expiration Date: 8/30/2023
Final Volume: 50 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12844	Caprolactam	.5 g	NEAT neat	10000 ppm
12843	1,2,4,5-Tetrachlorobenzene	.5 g	NEAT neat	10000 ppm
14222	Atrazine	.5 g	NEAT neat	10000 ppm
11341	Acetophenone	.5 g	NEAT neat	10000 ppm
9149	Diphenyl Ether	.5 g	NEAT neat	10000 ppm
14204	1- Methylnaphthalene	.5 g	NEAT neat	10000 ppm
13821	1,4 Dioxane	.5 g	NEAT neat	10000 ppm
14800	ACETONE	50 ml	neat neat	

Veritech Lot Number: V-380429

Prepared By: Hamid, Akmal
Department: Organics
ApprovedBy: akmal
Description: 8270 EXTRA MIX#2A
BatchNumber:
ApproveDate: 09/20/22
Prep Date: 9/20/2022
Concentration: 10000 ppm
Checked: Yes
Expiration Date: 9/20/2023
Final Volume: 25 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14184	Carbazole	.25 g	NEAT neat	10000 ppm
14821	Biphenyl	.25 g	NEAT neat	10000 ppm
13496	Octadecane	.25 g	NEAT neat	10000 ppm
14182	Coumarin	.25 g	NEAT neat	10000 ppm
14183	n-Decane	.25 g	NEAT neat	10000 ppm
13659	PYRIDINE	.25 g	NEAT neat	10000 ppm
9435	1,4-Dimethylnaphthalene	.263 g	95 %	10000 ppm
14831	Pentachloroethane	.25 g	NEAT neat	10000 ppm
14801	acetone	25 ml	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-392947

Prepared By: Bis, Yolanta
Description: Pyridine Stock Std.
Prep Date: 4/5/2023
Expiration Date: 4/5/2024
Department: Organics
BatchNumber:
Concentration: 10,000 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 04/11/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12769	Pyridine	10 ul	neat neat	10000 ppm
14864	Methylene Chloride Optima-4L	990 ul	NEAT neat	

Veritech Lot Number: V-396428

Prepared By: Bis, Yolanta
Description: CLP SPK (AQ)(DANGER)
Prep Date: 5/31/2023
Expiration Date: 8/30/2023
Department: Organics
BatchNumber:
Concentration: 2000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 06/01/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-380193	8270 EXTRA MIX#1(2nd Source)(DANGER)	2 ml	10000 ppm	2000 ppm
V-380429	8270 EXTRA MIX#2A	2 ml	10000 ppm	2000 ppm
V-380075	Benzaldehyde Std (2nd source)	2 ml	10000 ppm	2000 ppm
15275	acetone	4 ml	neat neat	

Veritech Lot Number: V-397390

Prepared By: Bis, Yolanta
Description: SIM-MDL @10/250PPM INTERM.
Prep Date: 6/15/2023
Expiration Date: 8/30/2023
Department: Organics
BatchNumber:
Concentration: VARIOUS
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 06/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14224	N-Nitrosodimethylamine	50 ul	5000 ppm	250 ppm
14223	Pentachlorophenol	50 ul	5000 ppm	250 ppm
14219	4,6-Dinitro-o-Cresol	50 ul	5000 ppm	250 ppm
14569	MEGAMIX	10 ul	1000 ppm	10 ppm
V-380192	8270 EXTRA MIX#1(1st Source)(DANGER)	5 ul	10000 ppm	50 ppm
14864	Methylene Chloride Optima-4L	835 ul	NEAT neat	

Veritech Lot Number: V-397392

Prepared By: Bis, Yolanta
Description: SIM-MDL@0.20/5 PPM
Prep Date: 6/15/2023
Expiration Date: 8/30/2023
Department: Organics
BatchNumber:
Concentration: VARIOUS
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 06/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397390	SIM-MDL @10/250PPM INTERM.	20 ul	VARIOUS	0.20/5 ppm
14977	Hexachlorocyclopentadiene	1 ul	1000 ppm	5 ppm
14864	Methylene Chloride Optima-4L	979 ul	NEAT neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-397403

Prepared By: Bis, Yolanta
Description: BNA MDL STOCK Std.
Prep Date: 6/15/2023
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 250 ppm
Final Volume: 600 ml
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14569	MEGAMIX	150 ul	1000 ppm	250 ppm
14570	BENZOIC ACID	75 ul	2000 ppm	250 ppm
14598	EPA TCL Benzidines Mix	150 ul	2000 ppm	500 ppm
V-380077	BNA-Pest Mix(Danger)	30 ul	5000 ppm	250 ppm
V-380073	BNA-6 MIX	30 ul	5000 ppm	250 ppm
15356	Acetone	165 ul	Neat neat	

Veritech Lot Number: V-397404

Prepared By: Bis, Yolanta
Description: BNA MDL Spike Mix
Prep Date: 6/15/2023
Expiration Date: 8/30/2023
Department: Organics
BatchNumber:
Concentration: various ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397403	BNA MDL STOCK Std.	80 ul	250 ppm	20 ppm
V-380192	8270 EXTRA MIX#1(1st Source)(DANGER)	2 ul	10000 ppm	20 ppm
14570	BENZOIC ACID	90 ul	2000 ppm	180 ppm
14810	Benzidine solution	36 ul	5000 ppm	180 ppm
14811	2,4-Dinitrolphenol	16 ul	5000 ppm	80 ppm
14223	Pentachlorophenol	16 ul	5000 ppm	80 ppm
14977	Hexachlorocyclopentadiene	16 ul	1000 ppm	80 ppm
v-392947	Pyridine Stock Std.	10 ul	10,000 ppm	100 ppm
14219	4,6-Dinitro-o-Cresol	16 ul	5000 ppm	80 ppm
V-380076	Benzaldehyde Std	2 ul	10000 ppm	20 ppm
15356	Acetone	716 ul	Neat neat	

Veritech Lot Number: V-397757

Prepared By: Nadler, Jacob
Description: 10N Sodium Hydroxide
Prep Date: 6/20/2023
Expiration Date: 6/1/2024
Department: Organics
BatchNumber:
Concentration: 10 n
Final Volume: 4000 ml
ApprovedBy: akmal
ApproveDate: 06/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O	4000 ml		10 n
15241	Sodium Hydroxide , Pallets , ACS	1600 g	Neat neat	10 n

Veritech Lot Number: V-398096

Prepared By: User, Organics
Description: BAKED sodium sulphate
Prep Date: 6/23/2023
Expiration Date: 7/22/2023
Department: Organics
BatchNumber:
Concentration: 4000 g
Final Volume: 4000 g
ApprovedBy: akmal
ApproveDate: 06/27/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15342	sodium sulfate	4000 g	neat neat	neat neat

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-376959

Prepared By: Hamid, Akmal
Description: BNA Surrog.Std.
Prep Date: 7/28/2022
Expiration Date: 7/28/2023
Department: Organics
BatchNumber:
Concentration: 1000-2000 pp
Final Volume: 1000 ml
ApprovedBy: akmal
ApproveDate: 07/29/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
13086	2-Fluorobiphenyl	1 g	NEAT neat	1000 ppm
14141	p-Terphenyl-d14	1 g	NEAT neat	1000 ppm
12713	Phenol-2,3,4,5,6-d5	2 g	NEAT neat	2000 ppm
12019	2,4,6-Tribromophenol	2 g	NEAT neat	2000 ppm
12021	Nitrobenzene-d5	800 ul	NEAT neat	1000 ppm
12716	2-Fluorophenol	1.6 ml	NEAT neat	2000 ppm
14703	acetone	1000 ml	neat neat	

Veritech Lot Number: V-380073

Prepared By: Hamid, Akmal
Description: BNA-6 MIX
Prep Date: 9/15/2022
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
13494	Biphenyl	.05 g	NEAT neat	5000 ppm
14182	Coumarin	.05 g	NEAT neat	5000 ppm
13496	Octadecane	.05 g	NEAT neat	5000 ppm
12783	Pentachloroethane	.05 g	NEAT neat	5000 ppm
9435	1,4-Dimethylnaphthalene	.0518 g	95 %	5000 ppm
14183	n-Decane	.05 g	NEAT neat	5000 ppm
14765	dichloromethane	10 ml	neat neat	

Veritech Lot Number: V-380075

Prepared By: Hamid, Akmal
Description: Benzaldehyde Std (2nd source)
Prep Date: 9/15/2022
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 25 ml
ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
9150	Benzaldehyde	.25 g	NEAT neat	10000 ppm
14801	acetone	25 ml	neat neat	

Veritech Lot Number: V-380076

Prepared By: Hamid, Akmal
Description: Benzaldehyde Std
Prep Date: 9/15/2022
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
9150	Benzaldehyde	.1 g	NEAT neat	10000 ppm
14765	dichloromethane	10 ml	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-380077

Prepared By: Hamid, Akmal
Description: BNA-Pest Mix(Danger)
Prep Date: 9/15/2022
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14187	4,4'-DDD	.05 g	NEAT neat	5000 ppm
13106	4,4' -DDE	.05 g	NEAT neat	5000 ppm
12842	4,4'-DDT	.05 g	NEAT neat	5000 ppm
14765	dichloromethane	10 ml	neat neat	

Veritech Lot Number: V-380192

Prepared By: Hamid, Akmal
Description: 8270 EXTRA MIX#1(1st Source)(DANG
Prep Date: 9/16/2022
Expiration Date: 8/30/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/16/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12844	Caprolactam	.1 g	NEAT neat	10000 ppm
12843	1,2,4,5-Tetrachlorobenzene	.1 g	NEAT neat	10000 ppm
14222	Atrazine	.1 g	NEAT neat	10000 ppm
11341	Acetophenone	.1 g	NEAT neat	10000 ppm
9149	Diphenyl Ether	.1 g	NEAT neat	10000 ppm
13821	1,4 Dioxane	.1 g	NEAT neat	10000 ppm
14802	Dichloromethane	10 ml	neat neat	

Veritech Lot Number: V-380193

Prepared By: Hamid, Akmal
Description: 8270 EXTRA MIX#1(2nd Source)(DAN
Prep Date: 9/16/2022
Expiration Date: 8/30/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 09/16/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12844	Caprolactam	.5 g	NEAT neat	10000 ppm
12843	1,2,4,5-Tetrachlorobenzene	.5 g	NEAT neat	10000 ppm
14222	Atrazine	.5 g	NEAT neat	10000 ppm
11341	Acetophenone	.5 g	NEAT neat	10000 ppm
9149	Diphenyl Ether	.5 g	NEAT neat	10000 ppm
14204	1- Methylnaphthalene	.5 g	NEAT neat	10000 ppm
13821	1,4 Dioxane	.5 g	NEAT neat	10000 ppm
14800	ACETONE	50 ml	neat neat	

Veritech Lot Number: V-380429

Prepared By: Hamid, Akmal
Description: 8270 EXTRA MIX#2A
Prep Date: 9/20/2022
Expiration Date: 9/20/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 25 ml
ApprovedBy: akmal
ApproveDate: 09/20/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14184	Carbazole	.25 g	NEAT neat	10000 ppm
14821	Biphenyl	.25 g	NEAT neat	10000 ppm
13496	Octadecane	.25 g	NEAT neat	10000 ppm
14182	Coumarin	.25 g	NEAT neat	10000 ppm
14183	n-Decane	.25 g	NEAT neat	10000 ppm
13659	PYRIDINE	.25 g	NEAT neat	10000 ppm
9435	1,4-Dimethylnaphthalene	.263 g	95 %	10000 ppm
14831	Pentachloroethane	.25 g	NEAT neat	10000 ppm
14801	acetone	25 ml	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-392947

Prepared By: Bis, Yolanta
Description: Pyridine Stock Std.
Prep Date: 4/5/2023
Expiration Date: 4/5/2024
Department: Organics
BatchNumber:
Concentration: 10,000 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 04/11/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12769	Pyridine	10 ul	neat neat	10000 ppm
14864	Methylene Chloride Optima-4L	990 ul	NEAT neat	

Veritech Lot Number: V-396428

Prepared By: Bis, Yolanta
Description: CLP SPK (AQ)(DANGER)
Prep Date: 5/31/2023
Expiration Date: 8/30/2023
Department: Organics
BatchNumber:
Concentration: 2000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 06/01/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-380193	8270 EXTRA MIX#1(2nd Source)(DANGER)	2 ml	10000 ppm	2000 ppm
V-380429	8270 EXTRA MIX#2A	2 ml	10000 ppm	2000 ppm
V-380075	Benzaldehyde Std (2nd source)	2 ml	10000 ppm	2000 ppm
15275	acetone	4 ml	neat neat	

Veritech Lot Number: V-397390

Prepared By: Bis, Yolanta
Description: SIM-MDL @10/250PPM INTERM.
Prep Date: 6/15/2023
Expiration Date: 8/30/2023
Department: Organics
BatchNumber:
Concentration: VARIOUS
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 06/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14224	N-Nitrosodimethylamine	50 ul	5000 ppm	250 ppm
14223	Pentachlorophenol	50 ul	5000 ppm	250 ppm
14219	4,6-Dinitro-o-Cresol	50 ul	5000 ppm	250 ppm
14569	MEGAMIX	10 ul	1000 ppm	10 ppm
V-380192	8270 EXTRA MIX#1(1st Source)(DANGER)	5 ul	10000 ppm	50 ppm
14864	Methylene Chloride Optima-4L	835 ul	NEAT neat	

Veritech Lot Number: V-397392

Prepared By: Bis, Yolanta
Description: SIM-MDL@0.20/5 PPM
Prep Date: 6/15/2023
Expiration Date: 8/30/2023
Department: Organics
BatchNumber:
Concentration: VARIOUS
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 06/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397390	SIM-MDL @10/250PPM INTERM.	20 ul	VARIOUS	0.20/5 ppm
14977	Hexachlorocyclopentadiene	1 ul	1000 ppm	5 ppm
14864	Methylene Chloride Optima-4L	979 ul	NEAT neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-397403

Prepared By: Bis, Yolanta
Description: BNA MDL STOCK Std.
Prep Date: 6/15/2023
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 250 ppm
Final Volume: 600 ml
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14569	MEGAMIX	150 ul	1000 ppm	250 ppm
14570	BENZOIC ACID	75 ul	2000 ppm	250 ppm
14598	EPA TCL Benzidines Mix	150 ul	2000 ppm	500 ppm
V-380077	BNA-Pest Mix(Danger)	30 ul	5000 ppm	250 ppm
V-380073	BNA-6 MIX	30 ul	5000 ppm	250 ppm
15356	Acetone	165 ul	Neat neat	

Veritech Lot Number: V-397404

Prepared By: Bis, Yolanta
Description: BNA MDL Spike Mix
Prep Date: 6/15/2023
Expiration Date: 8/30/2023
Department: Organics
BatchNumber:
Concentration: various ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397403	BNA MDL STOCK Std.	80 ul	250 ppm	20 ppm
V-380192	8270 EXTRA MIX#1(1st Source)(DANGER)	2 ul	10000 ppm	20 ppm
14570	BENZOIC ACID	90 ul	2000 ppm	180 ppm
14810	Benzidine solution	36 ul	5000 ppm	180 ppm
14811	2,4-Dinitrolphenol	16 ul	5000 ppm	80 ppm
14223	Pentachlorophenol	16 ul	5000 ppm	80 ppm
14977	Hexachlorocyclopentadiene	16 ul	1000 ppm	80 ppm
v-392947	Pyridine Stock Std.	10 ul	10,000 ppm	100 ppm
14219	4,6-Dinitro-o-Cresol	16 ul	5000 ppm	80 ppm
V-380076	Benzaldehyde Std	2 ul	10000 ppm	20 ppm
15356	Acetone	716 ul	Neat neat	

Veritech Lot Number: V-397757

Prepared By: Nadler, Jacob
Description: 10N Sodium Hydroxide
Prep Date: 6/20/2023
Expiration Date: 6/1/2024
Department: Organics
BatchNumber:
Concentration: 10 n
Final Volume: 4000 ml
ApprovedBy: akmal
ApproveDate: 06/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O	4000 ml		10 n
15241	Sodium Hydroxide , Pallets , ACS	1600 g	Neat neat	10 n

Veritech Lot Number: V-398096

Prepared By: User, Organics
Description: BAKED sodium sulphate
Prep Date: 6/23/2023
Expiration Date: 7/22/2023
Department: Organics
BatchNumber:
Concentration: 4000 g
Final Volume: 4000 g
ApprovedBy: akmal
ApproveDate: 06/27/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15342	sodium sulfate	4000 g	neat neat	neat neat

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-375729

Prepared By: Bis, Yolanta
Department: Organics
ApprovedBy: akmal
Description: DFTPP STOCK STD.
BatchNumber:
ApproveDate: 07/20/22
Prep Date: 7/13/2022
Concentration: 2000 ppm
Checked: Yes
Expiration Date: 7/13/2023
Final Volume: 5 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
13602	DFTPP STD.	.01 g	NEAT neat	2000 ppm
13117	Methylene Chloride optima	5 ml	neat neat	

Veritech Lot Number: V-376959

Prepared By: Hamid, Akmal
Department: Organics
ApprovedBy: akmal
Description: BNA Surrog.Std.
BatchNumber:
ApproveDate: 07/29/22
Prep Date: 7/28/2022
Concentration: 1000-2000 pp
Checked: Yes
Expiration Date: 7/28/2023
Final Volume: 1000 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
13086	2-Fluorobiphenyl	1 g	NEAT neat	1000 ppm
14141	p-Terphenyl-d14	1 g	NEAT neat	1000 ppm
12713	Phenol-2,3,4,5,6-d5	2 g	NEAT neat	2000 ppm
12019	2,4,6-Tribromophenol	2 g	NEAT neat	2000 ppm
12021	Nitrobenzene-d5	800 ul	NEAT neat	1000 ppm
12716	2-Fluorophenol	1.6 ml	NEAT neat	2000 ppm
14703	acetone	1000 ml	neat neat	

Veritech Lot Number: V-380073

Prepared By: Hamid, Akmal
Department: Organics
ApprovedBy: akmal
Description: BNA-6 MIX
BatchNumber:
ApproveDate: 09/15/22
Prep Date: 9/15/2022
Concentration: 5000 ppm
Checked: Yes
Expiration Date: 9/15/2023
Final Volume: 10 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
13494	Biphenyl	.05 g	NEAT neat	5000 ppm
14182	Coumarin	.05 g	NEAT neat	5000 ppm
13496	Octadecane	.05 g	NEAT neat	5000 ppm
12783	Pentachloroethane	.05 g	NEAT neat	5000 ppm
9435	1,4-Dimethylnaphthalene	.0518 g	95 %	5000 ppm
14183	n-Decane	.05 g	NEAT neat	5000 ppm
14765	dichloromethane	10 ml	neat neat	

Veritech Lot Number: V-380074

Prepared By: Hamid, Akmal
Department: Organics
ApprovedBy: akmal
Description: BNA-7 MIX
BatchNumber:
ApproveDate: 09/15/22
Prep Date: 9/15/2022
Concentration: 5000 ppm
Checked: Yes
Expiration Date: 9/15/2023
Final Volume: 10 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14808	2,3,4,6-Tetrachlorophenol	.05 g	NEAT neat	5000 ppm
13494	Biphenyl	.05 g	NEAT neat	5000 ppm
14182	Coumarin	.05 g	NEAT neat	5000 ppm
13496	Octadecane	.05 g	NEAT neat	5000 ppm
12783	Pentachloroethane	.05 g	NEAT neat	5000 ppm
9435	1,4-Dimethylnaphthalene	.0518 g	95 %	5000 ppm
14183	n-Decane	.05 g	NEAT neat	5000 ppm
14765	dichloromethane	10 ml	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-380075

Prepared By: Hamid, Akmal
Department: Organics
ApprovedBy: akmal
Description: Benzaldehyde Std (2nd source)
BatchNumber:
ApproveDate: 09/15/22
Prep Date: 9/15/2022
Concentration: 10000 ppm
Checked: Yes
Expiration Date: 9/15/2023
Final Volume: 25 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
9150	Benzaldehyde	.25 g	NEAT neat	10000 ppm
14801	acetone	25 ml	neat neat	

Veritech Lot Number: V-380076

Prepared By: Hamid, Akmal
Department: Organics
ApprovedBy: akmal
Description: Benzaldehyde Std
BatchNumber:
ApproveDate: 09/15/22
Prep Date: 9/15/2022
Concentration: 10000 ppm
Checked: Yes
Expiration Date: 9/15/2023
Final Volume: 10 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
9150	Benzaldehyde	.1 g	NEAT neat	10000 ppm
14765	dichloromethane	10 ml	neat neat	

Veritech Lot Number: V-380077

Prepared By: Hamid, Akmal
Department: Organics
ApprovedBy: akmal
Description: BNA-Pest Mix(Danger)
BatchNumber:
ApproveDate: 09/15/22
Prep Date: 9/15/2022
Concentration: 5000 ppm
Checked: Yes
Expiration Date: 9/15/2023
Final Volume: 10 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14187	4,4'-DDD	.05 g	NEAT neat	5000 ppm
13106	4,4' -DDE	.05 g	NEAT neat	5000 ppm
12842	4,4'-DDT	.05 g	NEAT neat	5000 ppm
14765	dichloromethane	10 ml	neat neat	

Veritech Lot Number: V-380192

Prepared By: Hamid, Akmal
Department: Organics
ApprovedBy: akmal
Description: 8270 EXTRA MIX#1(1st Source)(DANG
BatchNumber:
ApproveDate: 09/16/22
Prep Date: 9/16/2022
Concentration: 10000 ppm
Checked: Yes
Expiration Date: 8/30/2023
Final Volume: 10 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12844	Caprolactam	.1 g	NEAT neat	10000 ppm
12843	1,2,4,5-Tetrachlorobenzene	.1 g	NEAT neat	10000 ppm
14222	Atrazine	.1 g	NEAT neat	10000 ppm
11341	Acetophenone	.1 g	NEAT neat	10000 ppm
9149	Diphenyl Ether	.1 g	NEAT neat	10000 ppm
13821	1,4 Dioxane	.1 g	NEAT neat	10000 ppm
14802	Dichloromethane	10 ml	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-380193

Prepared By: Hamid, Akmal
Description: 8270 EXTRA MIX#1(2nd Source)(DAN
Prep Date: 9/16/2022
Expiration Date: 8/30/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 09/16/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12844	Caprolactam	.5 g	NEAT neat	10000 ppm
12843	1,2,4,5-Tetrachlorobenzene	.5 g	NEAT neat	10000 ppm
14222	Atrazine	.5 g	NEAT neat	10000 ppm
11341	Acetophenone	.5 g	NEAT neat	10000 ppm
9149	Diphenyl Ether	.5 g	NEAT neat	10000 ppm
14204	1- Methylnaphthalene	.5 g	NEAT neat	10000 ppm
13821	1,4 Dioxane	.5 g	NEAT neat	10000 ppm
14800	ACETONE	50 ml	neat neat	

Veritech Lot Number: V-392947

Prepared By: Bis, Yolanta
Description: Pyridine Stock Std.
Prep Date: 4/5/2023
Expiration Date: 4/5/2024
Department: Organics
BatchNumber:
Concentration: 10,000 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 04/11/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12769	Pyridine	10 ul	neat neat	10000 ppm
14864	Methylene Chloride Optima-4L	990 ul	NEAT neat	

Veritech Lot Number: V-394768

Prepared By: Hamid, Akmal
Description: BNA Internal Std.
Prep Date: 5/3/2023
Expiration Date: 5/3/2024
Department: Organics
BatchNumber:
Concentration: 2000 ppm
Final Volume: 500 ml
ApprovedBy: akmal
ApproveDate: 05/03/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15084	Naphthalene-D8	1 g	NEAT neat	2000 ppm
15086	Phenanthrene-d10	1 g	NEAT neat	2000 ppm
15087	Chrysene-d12	1 g	NEAT neat	2000 ppm
15088	Perylene-d12	1 g	NEAT neat	2000 ppm
13897	Acenaphthene-d10	1 g	NEAT neat	2000 ppm
12507	1,4-Dichlorobenzene-D4	1 g	NEAT neat	2000 ppm
15082	1,4 Dioxane-D8	1 g	NEAT neat	2000 ppm
14864	Methylene Chloride Optima-4L	500 ml	NEAT neat	

Veritech Lot Number: V-395403

Prepared By: Bis, Yolanta
Description: DFTPP Mix
Prep Date: 5/15/2023
Expiration Date: 7/13/2023
Department: Organics
BatchNumber:
Concentration: 50 ppm
Final Volume: 1.5 ml
ApprovedBy: akmal
ApproveDate: 05/17/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-375729	DFTPP STOCK STD.	25 ul	2000 ppm	50 ppm
15268	DDT - Endrin Mix	200 ul	500 ppm	100 ppm
14759	Phenolics Mix	50 ul	2000 ppm	100 ppm
14598	EPA TCL Benzidines Mix	50	2000 ppm	100 ppm
14864	Methylene Chloride Optima-4L	675 ul	NEAT neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-397589

Prepared By: Bis, Yolanta
Description: BNA STOCK Std.A (DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber:
Concentration: 250 ppm
Final Volume: 600 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14569	MEGAMIX	150 ul	1000 ppm	250 ppm
14570	BENZOIC ACID	75 ul	2000 ppm	250 ppm
15050	EPA TCL Benzidines Mix	75 ul	2000 ppm	250 ppm
V-376959	BNA Surrog.Std.	75 ul	1000-2000 pp	125-250 pp
V-380077	BNA-Pest Mix(Danger)	30 ul	5000 ppm	250 ppm
V-380073	BNA-6 MIX	30 ul	5000 ppm	250 ppm
14765	dichloromethane	165 ul	neat neat	

Veritech Lot Number: V-397590

Prepared By: Bis, Yolanta
Description: BNA STOCK Std.(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber:
Concentration: 200 ppm
Final Volume: 500 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397589	BNA STOCK Std.A (DANGER)	400 ul	250 ppm	250 ppm
V-380192	8270 EXTRA MIX#1(1st Source)(DANGER)	10 ul	10000 ppm	250 ppm
V-380076	Benzaldehyde Std	10 ul	10000 ppm	250 ppm
14765	dichloromethane	80 ul	neat neat	

Veritech Lot Number: V-397591

Prepared By: Bis, Yolanta
Description: BNA 10 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 10 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397590	BNA STOCK Std.(DANGER)	5 ul	200 ppm	10 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14765	dichloromethane	93 ul	neat neat	

Veritech Lot Number: V-397592

Prepared By: Bis, Yolanta
Description: BNA 20 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 20 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397590	BNA STOCK Std.(DANGER)	10 ul	200 ppm	20 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14765	dichloromethane	88 ul	neat neat	

Veritech Lot Number: V-397593

Prepared By: Bis, Yolanta
Description: BNA 50 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 50 ppm
Final Volume: 600 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397590	BNA STOCK Std.(DANGER)	150 ul	200 ppm	50 ppm
V-394768	BNA Internal Std.	12 ul	2000 ppm	40 ppm
14765	dichloromethane	438 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-397594

Prepared By: Bis, Yolanta
Description: BNA 80 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 80 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397590	BNA STOCK Std.(DANGER)	40 ul	200 ppm	80 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14765	dichloromethane	58 ul	neat neat	

Veritech Lot Number: V-397595

Prepared By: Bis, Yolanta
Description: BNA 120 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 120 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397590	BNA STOCK Std.(DANGER)	60 ul	200 ppm	120 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14765	dichloromethane	38 ul	neat neat	

Veritech Lot Number: V-397596

Prepared By: Bis, Yolanta
Description: BNA 160 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 160 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397590	BNA STOCK Std.(DANGER)	80 ul	200 ppm	160 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14765	dichloromethane	18 ul	neat neat	

Veritech Lot Number: V-397597

Prepared By: Bis, Yolanta
Description: BNA 196 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 196 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397590	BNA STOCK Std.(DANGER)	98 ul	200 ppm	196 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14765	dichloromethane	0	neat neat	

Veritech Lot Number: V-397598

Prepared By: Bis, Yolanta
Description: BNA 50 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 50 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397590	BNA STOCK Std.(DANGER)	25 ul	200 ppm	50 ppm
14765	dichloromethane	75 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-397599

Prepared By: Bis, Yolanta
Description: BNA 2 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 2 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397598	BNA 50 ppm curve(DANGER)	4 ul	50 ppm	2 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14765	dichloromethane	94 ul	neat neat	

Veritech Lot Number: V-397600

Prepared By: Bis, Yolanta
Description: BNA 0.5 ppm curve(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber: B-34981
Concentration: 0.5 ppm
Final Volume: 100 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397598	BNA 50 ppm curve(DANGER)	1 ul	50 ppm	2 ppm
V-394768	BNA Internal Std.	2 ul	2000 ppm	40 ppm
14765	dichloromethane	97 ul	neat neat	

Veritech Lot Number: V-397601

Prepared By: Bis, Yolanta
Description: BNA STOCK Std.B(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber:
Concentration: 250 ppm
Final Volume: 600 ul
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14446	Polynuclear Aromatic Hydrocarbons Mix.	75 ul	2000 ppm	250 ppm
15050	EPA TCL Benzidines Mix	75 ul	2000 ppm	250 ppm
14140	EPA TCL Hazardous subs. Mix	75 ul	2000 ppm	250 ppm
15169	EPA TCL BASE-NEUTRALS Mix	75 ul	2000 ppm	250 ppm
V-376959	BNA Surrog.Std.	75 ul	1000-2000 pp	125-250 pp
V-392947	Pyridine Stock Std.	15 ul	10,000 ppm	250 ppm
V-380074	BNA-7 MIX	30 ul	5000 ppm	250 ppm
14759	Phenolics Mix	75 ul	2000 ppm	250 ppm
14765	dichloromethane	180 ul	neat neat	

Veritech Lot Number: V-397602

Prepared By: Bis, Yolanta
Description: BNA ICV CAL@50ppm(DANGER)
Prep Date: 6/19/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber:
Concentration: 50 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397601	BNA STOCK Std.B(DANGER)	40 ul	250 ppm	50 ppm
v-380193	8270 EXTRA MIX#1(2nd Source)(DANGER)	1 ul	10000 ppm	50 ppm
v-380075	Benzaldehyde Std (2nd source)	1 ul	10000 ppm	50 ppm
V-394768	BNA Internal Std.	4 ul	2000 ppm	40 ppm
14765	dichloromethane	154 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-375729

Prepared By: Bis, Yolanta
Description: DFTPP STOCK STD.
Prep Date: 7/13/2022
Expiration Date: 7/13/2023
Department: Organics
BatchNumber:
Concentration: 2000 ppm
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 07/20/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
13602	DFTPP STD.	.01 g	NEAT neat	2000 ppm
13117	Methylene Chloride optima	5 ml	neat neat	

Veritech Lot Number: V-376959

Prepared By: Hamid, Akmal
Description: BNA Surrog.Std.
Prep Date: 7/28/2022
Expiration Date: 7/28/2023
Department: Organics
BatchNumber:
Concentration: 1000-2000 pp
Final Volume: 1000 ml
ApprovedBy: akmal
ApproveDate: 07/29/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
13086	2-Fluorobiphenyl	1 g	NEAT neat	1000 ppm
14141	p-Terphenyl-d14	1 g	NEAT neat	1000 ppm
12713	Phenol-2,3,4,5,6-d5	2 g	NEAT neat	2000 ppm
12019	2,4,6-Tribromophenol	2 g	NEAT neat	2000 ppm
12021	Nitrobenzene-d5	800 ul	NEAT neat	1000 ppm
12716	2-Fluorophenol	1.6 ml	NEAT neat	2000 ppm
14703	acetone	1000 ml	neat neat	

Veritech Lot Number: V-380073

Prepared By: Hamid, Akmal
Description: BNA-6 MIX
Prep Date: 9/15/2022
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
13494	Biphenyl	.05 g	NEAT neat	5000 ppm
14182	Coumarin	.05 g	NEAT neat	5000 ppm
13496	Octadecane	.05 g	NEAT neat	5000 ppm
12783	Pentachloroethane	.05 g	NEAT neat	5000 ppm
9435	1,4-Dimethylnaphthalene	.0518 g	95 %	5000 ppm
14183	n-Decane	.05 g	NEAT neat	5000 ppm
14765	dichloromethane	10 ml	neat neat	

Veritech Lot Number: V-380075

Prepared By: Hamid, Akmal
Description: Benzaldehyde Std (2nd source)
Prep Date: 9/15/2022
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 25 ml
ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
9150	Benzaldehyde	.25 g	NEAT neat	10000 ppm
14801	acetone	25 ml	neat neat	

Veritech Lot Number: V-380076

Prepared By: Hamid, Akmal
Description: Benzaldehyde Std
Prep Date: 9/15/2022
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
9150	Benzaldehyde	.1 g	NEAT neat	10000 ppm
14765	dichloromethane	10 ml	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-380077

Prepared By: Hamid, Akmal
Description: BNA-Pest Mix(Danger)
Prep Date: 9/15/2022
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14187	4,4'-DDD	.05 g	NEAT neat	5000 ppm
13106	4,4' -DDE	.05 g	NEAT neat	5000 ppm
12842	4,4'-DDT	.05 g	NEAT neat	5000 ppm
14765	dichloromethane	10 ml	neat neat	

Veritech Lot Number: V-380192

Prepared By: Hamid, Akmal
Description: 8270 EXTRA MIX#1(1st Source)(DANG
Prep Date: 9/16/2022
Expiration Date: 8/30/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/16/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12844	Caprolactam	.1 g	NEAT neat	10000 ppm
12843	1,2,4,5-Tetrachlorobenzene	.1 g	NEAT neat	10000 ppm
14222	Atrazine	.1 g	NEAT neat	10000 ppm
11341	Acetophenone	.1 g	NEAT neat	10000 ppm
9149	Diphenyl Ether	.1 g	NEAT neat	10000 ppm
13821	1,4 Dioxane	.1 g	NEAT neat	10000 ppm
14802	Dichloromethane	10 ml	neat neat	

Veritech Lot Number: V-380193

Prepared By: Hamid, Akmal
Description: 8270 EXTRA MIX#1(2nd Source)(DAN
Prep Date: 9/16/2022
Expiration Date: 8/30/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 09/16/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12844	Caprolactam	.5 g	NEAT neat	10000 ppm
12843	1,2,4,5-Tetrachlorobenzene	.5 g	NEAT neat	10000 ppm
14222	Atrazine	.5 g	NEAT neat	10000 ppm
11341	Acetophenone	.5 g	NEAT neat	10000 ppm
9149	Diphenyl Ether	.5 g	NEAT neat	10000 ppm
14204	1- Methylnaphthalene	.5 g	NEAT neat	10000 ppm
13821	1,4 Dioxane	.5 g	NEAT neat	10000 ppm
14800	ACETONE	50 ml	neat neat	

Veritech Lot Number: V-380429

Prepared By: Hamid, Akmal
Description: 8270 EXTRA MIX#2A
Prep Date: 9/20/2022
Expiration Date: 9/20/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 25 ml
ApprovedBy: akmal
ApproveDate: 09/20/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14184	Carbazole	.25 g	NEAT neat	10000 ppm
14821	Biphenyl	.25 g	NEAT neat	10000 ppm
13496	Octadecane	.25 g	NEAT neat	10000 ppm
14182	Coumarin	.25 g	NEAT neat	10000 ppm
14183	n-Decane	.25 g	NEAT neat	10000 ppm
13659	PYRIDINE	.25 g	NEAT neat	10000 ppm
9435	1,4-Dimethylnaphthalene	.263 g	95 %	10000 ppm
14831	Pentachloroethane	.25 g	NEAT neat	10000 ppm
14801	acetone	25 ml	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-392947

Prepared By: Bis, Yolanta | Department: Organics | ApprovedBy: akmal
Description: Pyridine Stock Std. | BatchNumber: | ApproveDate: 04/11/23
Prep Date: 4/5/2023 | Concentration: 10,000 ppm | Checked: Yes
Expiration Date: 4/5/2024 | Final Volume: 1 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12769	Pyridine	10 ul	neat neat	10000 ppm
14864	Methylene Chloride Optima-4L	990 ul	NEAT neat	

Veritech Lot Number: V-395403

Prepared By: Bis, Yolanta | Department: Organics | ApprovedBy: akmal
Description: DFTPP Mix | BatchNumber: | ApproveDate: 05/17/23
Prep Date: 5/15/2023 | Concentration: 50 ppm | Checked: Yes
Expiration Date: 7/13/2023 | Final Volume: 1.5 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-375729	DFTPP STOCK STD.	25 ul	2000 ppm	50 ppm
15268	DDT - Endrin Mix	200 ul	500 ppm	100 ppm
14759	Phenolics Mix	50 ul	2000 ppm	100 ppm
14598	EPA TCL Benzidines Mix	50	2000 ppm	100 ppm
14864	Methylene Chloride Optima-4L	675 ul	NEAT neat	

Veritech Lot Number: V-396428

Prepared By: Bis, Yolanta | Department: Organics | ApprovedBy: akmal
Description: CLP SPK (AQ)(DANGER) | BatchNumber: | ApproveDate: 06/01/23
Prep Date: 5/31/2023 | Concentration: 2000 ppm | Checked: Yes
Expiration Date: 8/30/2023 | Final Volume: 10 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-380193	8270 EXTRA MIX#1(2nd Source)(DANGER)	2 ml	10000 ppm	2000 ppm
V-380429	8270 EXTRA MIX#2A	2 ml	10000 ppm	2000 ppm
V-380075	Benzaldehyde Std (2nd source)	2 ml	10000 ppm	2000 ppm
15275	acetone	4 ml	neat neat	

Veritech Lot Number: V-397390

Prepared By: Bis, Yolanta | Department: Organics | ApprovedBy: akmal
Description: SIM-MDL @10/250PPM INTERM. | BatchNumber: | ApproveDate: 06/23/23
Prep Date: 6/15/2023 | Concentration: VARIOUS | Checked: Yes
Expiration Date: 8/30/2023 | Final Volume: 1 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14224	N-Nitrosodimethylamine	50 ul	5000 ppm	250 ppm
14223	Pentachlorophenol	50 ul	5000 ppm	250 ppm
14219	4,6-Dinitro-o-Cresol	50 ul	5000 ppm	250 ppm
14569	MEGAMIX	10 ul	1000 ppm	10 ppm
V-380192	8270 EXTRA MIX#1(1st Source)(DANGER)	5 ul	10000 ppm	50 ppm
14864	Methylene Chloride Optima-4L	835 ul	NEAT neat	

Veritech Lot Number: V-397392

Prepared By: Bis, Yolanta | Department: Organics | ApprovedBy: akmal
Description: SIM-MDL@0.20/5 PPM | BatchNumber: | ApproveDate: 06/23/23
Prep Date: 6/15/2023 | Concentration: VARIOUS | Checked: Yes
Expiration Date: 8/30/2023 | Final Volume: 1 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397390	SIM-MDL @10/250PPM INTERM.	20 ul	VARIOUS	0.20/5 ppm
14977	Hexachlorocyclopentadiene	1 ul	1000 ppm	5 ppm
14864	Methylene Chloride Optima-4L	979 ul	NEAT neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-397403

Prepared By: Bis, Yolanta
Description: BNA MDL STOCK Std.
Prep Date: 6/15/2023
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 250 ppm
Final Volume: 600 ml
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14569	MEGAMIX	150 ul	1000 ppm	250 ppm
14570	BENZOIC ACID	75 ul	2000 ppm	250 ppm
14598	EPA TCL Benzidines Mix	150 ul	2000 ppm	500 ppm
V-380077	BNA-Pest Mix(Danger)	30 ul	5000 ppm	250 ppm
V-380073	BNA-6 MIX	30 ul	5000 ppm	250 ppm
15356	Acetone	165 ul	Neat neat	

Veritech Lot Number: V-397404

Prepared By: Bis, Yolanta
Description: BNA MDL Spike Mix
Prep Date: 6/15/2023
Expiration Date: 8/30/2023
Department: Organics
BatchNumber:
Concentration: various ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 06/22/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397403	BNA MDL STOCK Std.	80 ul	250 ppm	20 ppm
V-380192	8270 EXTRA MIX#1(1st Source)(DANGER)	2 ul	10000 ppm	20 ppm
14570	BENZOIC ACID	90 ul	2000 ppm	180 ppm
14810	Benzidine solution	36 ul	5000 ppm	180 ppm
14811	2,4-Dinitrolphenol	16 ul	5000 ppm	80 ppm
14223	Pentachlorophenol	16 ul	5000 ppm	80 ppm
14977	Hexachlorocyclopentadiene	16 ul	1000 ppm	80 ppm
v-392947	Pyridine Stock Std.	10 ul	10,000 ppm	100 ppm
14219	4,6-Dinitro-o-Cresol	16 ul	5000 ppm	80 ppm
V-380076	Benzaldehyde Std	2 ul	10000 ppm	20 ppm
15356	Acetone	716 ul	Neat neat	

Veritech Lot Number: V-397757

Prepared By: Nadler, Jacob
Description: 10N Sodium Hydroxide
Prep Date: 6/20/2023
Expiration Date: 6/1/2024
Department: Organics
BatchNumber:
Concentration: 10 n
Final Volume: 4000 ml
ApprovedBy: akmal
ApproveDate: 06/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O	4000 ml		10 n
15241	Sodium Hydroxide , Pallets , ACS	1600 g	Neat neat	10 n

Veritech Lot Number: V-398096

Prepared By: User, Organics
Description: BAKED sodium sulphate
Prep Date: 6/23/2023
Expiration Date: 7/22/2023
Department: Organics
BatchNumber:
Concentration: 4000 g
Final Volume: 4000 g
ApprovedBy: akmal
ApproveDate: 06/27/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15342	sodium sulfate	4000 g	neat neat	neat neat

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-376959

Prepared By: Hamid, Akmal
Description: BNA Surrog.Std.
Prep Date: 7/28/2022
Expiration Date: 7/28/2023
Department: Organics
BatchNumber:
Concentration: 1000-2000 pp
Final Volume: 1000 ml
ApprovedBy: akmal
ApproveDate: 07/29/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
13086	2-Fluorobiphenyl	1 g	NEAT neat	1000 ppm
14141	p-Terphenyl-d14	1 g	NEAT neat	1000 ppm
12713	Phenol-2,3,4,5,6-d5	2 g	NEAT neat	2000 ppm
12019	2,4,6-Tribromophenol	2 g	NEAT neat	2000 ppm
12021	Nitrobenzene-d5	800 ul	NEAT neat	1000 ppm
12716	2-Fluorophenol	1.6 ml	NEAT neat	2000 ppm
14703	acetone	1000 ml	neat neat	

Veritech Lot Number: V-380073

Prepared By: Hamid, Akmal
Description: BNA-6 MIX
Prep Date: 9/15/2022
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
13494	Biphenyl	.05 g	NEAT neat	5000 ppm
14182	Coumarin	.05 g	NEAT neat	5000 ppm
13496	Octadecane	.05 g	NEAT neat	5000 ppm
12783	Pentachloroethane	.05 g	NEAT neat	5000 ppm
9435	1,4-Dimethylnaphthalene	.0518 g	95 %	5000 ppm
14183	n-Decane	.05 g	NEAT neat	5000 ppm
14765	dichloromethane	10 ml	neat neat	

Veritech Lot Number: V-380077

Prepared By: Hamid, Akmal
Description: BNA-Pest Mix(Danger)
Prep Date: 9/15/2022
Expiration Date: 9/15/2023
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14187	4,4'-DDD	.05 g	NEAT neat	5000 ppm
13106	4,4' -DDE	.05 g	NEAT neat	5000 ppm
12842	4,4'-DDT	.05 g	NEAT neat	5000 ppm
14765	dichloromethane	10 ml	neat neat	

Veritech Lot Number: V-380192

Prepared By: Hamid, Akmal
Description: 8270 EXTRA MIX#1(1st Source)(DANG
Prep Date: 9/16/2022
Expiration Date: 8/30/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 09/16/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12844	Caprolactam	.1 g	NEAT neat	10000 ppm
12843	1,2,4,5-Tetrachlorobenzene	.1 g	NEAT neat	10000 ppm
14222	Atrazine	.1 g	NEAT neat	10000 ppm
11341	Acetophenone	.1 g	NEAT neat	10000 ppm
9149	Diphenyl Ether	.1 g	NEAT neat	10000 ppm
13821	1,4 Dioxane	.1 g	NEAT neat	10000 ppm
14802	Dichloromethane	10 ml	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-380193

Prepared By: Hamid, Akmal
Description: 8270 EXTRA MIX#1(2nd Source)(DAN
Prep Date: 9/16/2022
Expiration Date: 8/30/2023
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 09/16/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12844	Caprolactam	.5 g	NEAT neat	10000 ppm
12843	1,2,4,5-Tetrachlorobenzene	.5 g	NEAT neat	10000 ppm
14222	Atrazine	.5 g	NEAT neat	10000 ppm
11341	Acetophenone	.5 g	NEAT neat	10000 ppm
9149	Diphenyl Ether	.5 g	NEAT neat	10000 ppm
14204	1- Methylnaphthalene	.5 g	NEAT neat	10000 ppm
13821	1,4 Dioxane	.5 g	NEAT neat	10000 ppm
14800	ACETONE	50 ml	neat neat	

Veritech Lot Number: V-388254

Prepared By: Hamid, Akmal
Description: BNA Internal Std.
Prep Date: 1/25/2023
Expiration Date: 11/15/2023
Department: Organics
BatchNumber:
Concentration: 2000 ppm
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 01/25/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
13893	Naphthalene-d8	.2 g	NEAT neat	2000 ppm
13894	Phenanthrene-d10	.2 g	NEAT neat	2000 ppm
13895	Chrysene-d12	.2 g	NEAT neat	2000 ppm
13896	Perylene-d12	.2 g	NEAT neat	2000 ppm
12507	1,4-Dichlorobenzene-D4	.2 g	NEAT neat	2000 ppm
13897	Acenaphthene-d10	.2 g	NEAT neat	2000 ppm
13898	1,4-Dioxane-d8	.2 g	NEAT neat	2000 ppm
14765	dichloromethane	100 ml	neat neat	

Veritech Lot Number: V-388307

Prepared By: Bis, Yolanta
Description: INTERNAL STD@20PPM
Prep Date: 1/26/2023
Expiration Date: 7/26/2023
Department: Organics
BatchNumber:
Concentration: 20 ppm
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 02/15/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-388254	BNA Internal Std.	.5 ml	2000 ppm	20 ppm
15035	Dichloromethane	49.5 ml	neat neat	

Veritech Lot Number: V-389400

Prepared By: Bis, Yolanta
Description: TCDD STD
Prep Date: 2/13/2023
Expiration Date: 7/26/2023
Department: Organics
BatchNumber:
Concentration: 5 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 02/15/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14978	2,3,7,8-Tetrachlorodibenzo-p-dioxin	100 ul	50 ppm	5 ppm
V-388307	INTERNAL STD@20PPM	20 ul	20 ppm	0.4 ppm
14765	dichloromethane	880 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-395238

Prepared By: Bis, Yolanta
Description: BNA STOCK Std.A (DANGER)
Prep Date: 5/11/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber:
Concentration: 250 ppm
Final Volume: 600 ul
ApprovedBy: akmal
ApproveDate: 05/17/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14569	MEGAMIX	150 ul	1000 ppm	250 ppm
14570	BENZOIC ACID	75 ul	2000 ppm	250 ppm
14598	EPA TCL Benzidines Mix	75 ul	2000 ppm	250 ppm
V-376959	BNA Surrog.Std.	75 ul	1000-2000 pp	125-250 pp
V-380077	BNA-Pest Mix(Danger)	30 ul	5000 ppm	250 ppm
V-380073	BNA-6 MIX	30 ul	5000 ppm	250 ppm
14864	Methylene Chloride Optima-4L	165 ul	NEAT neat	

Veritech Lot Number: V-395638

Prepared By: Bis, Yolanta
Description: BNA SIMS STOCK. Std.(DANGER)
Prep Date: 5/18/2023
Expiration Date: 7/28/2023
Department: Organics
BatchNumber:
Concentration: 20 ppm
Final Volume: 1.5 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14864	Methylene Chloride Optima-4L	1272 ul	NEAT neat	
15169	EPA TCL BASE-NEUTRALS Mix	15 ul	2000 ppm	20 ppm
14140	EPA TCL Hazardous subs. Mix	15 ul	2000 ppm	20 ppm
14446	Polynuclear Aromatic Hydrocarbons Mix.	15 ul	2000 ppm	20 ppm
14759	Phenolics Mix	15 ul	2000 ppm	20 ppm
V-376959	BNA Surrog.Std.	150 ul	1000-2000 pp	100-200 pp
v-380192	8270 EXTRA MIX#1(1st Source)(DANGER)	3 ul	10000 ppm	20 ppm
14598	EPA TCL Benzidines Mix	15 ul	2000 ppm	20 ppm

Veritech Lot Number: V-395639

Prepared By: Bis, Yolanta
Description: BNA SIM CAL STD(DANGER)
Prep Date: 5/18/2023
Expiration Date: 7/26/2023
Department: Organics
BatchNumber: B-34820
Concentration: 19.6 ppm
Final Volume: 400 ul
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14864	Methylene Chloride Optima-4L	0 ul	NEAT neat	
V-395638	BNA SIMS STOCK. Std.(DANGER)	392 ul	20 ppm	19.6 ppm
V-388307	INTERNAL STD@20PPM	8 ul	20 ppm	0.4 ppm

Veritech Lot Number: V-395640

Prepared By: Bis, Yolanta
Description: BNA SIM CAL STD.(DANGER)
Prep Date: 5/18/2023
Expiration Date: 7/26/2023
Department: Organics
BatchNumber: B-34820
Concentration: 10 ppm
Final Volume: 400 ul
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14864	Methylene Chloride Optima-4L	192 ul	NEAT neat	
V-395638	BNA SIMS STOCK. Std.(DANGER)	200 ul	20 ppm	10 ppm
V-388307	INTERNAL STD@20PPM	8 ul	20 ppm	0.4 ppm

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-395641

Prepared By: Bis, Yolanta
Description: BNA SIM CAL STD.(DANGER)
Prep Date: 5/18/2023
Expiration Date: 7/26/2023
Department: Organics
BatchNumber: B-34820
Concentration: 5 ppm
Final Volume: 1600 ul
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14864	Methylene Chloride Optima-4L	1168 ul	NEAT neat	
V-395638	BNA SIMS STOCK. Std.(DANGER)	400 ul	20 ppm	5 ppm
V-388307	INTERNAL STD@20PPM	32 ul	20 ppm	0.4 ppm

Veritech Lot Number: V-395642

Prepared By: Bis, Yolanta
Description: BNA SIM CAL STD.(DANGER)
Prep Date: 5/18/2023
Expiration Date: 7/26/2023
Department: Organics
BatchNumber: B-34820
Concentration: 0.5 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14864	Methylene Chloride Optima-4L	955 ul	NEAT neat	
V-395638	BNA SIMS STOCK. Std.(DANGER)	25 ul	20 ppm	0.5 ppm
V-388307	INTERNAL STD@20PPM	20 ul	20 ppm	0.4 ppm

Veritech Lot Number: V-395643

Prepared By: Bis, Yolanta
Description: BNA SIM CAL STD.(DANGER)
Prep Date: 5/18/2023
Expiration Date: 7/26/2023
Department: Organics
BatchNumber: B-34820
Concentration: 0.02 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14864	Methylene Chloride Optima-4L	960 ul	NEAT neat	
V-395646	BNA SIM CAL STD.(DANGER)	20 ul	1 ppm	0.02 ppm
V-388307	INTERNAL STD@20PPM	20 ul	20 ppm	0.4 ppm

Veritech Lot Number: V-395644

Prepared By: Bis, Yolanta
Description: BNA SIM CAL STD.(DANGER)
Prep Date: 5/18/2023
Expiration Date: 7/26/2023
Department: Organics
BatchNumber: B-34820
Concentration: 0.2 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14864	Methylene Chloride Optima-4L	970 ul	NEAT neat	
V-395638	BNA SIMS STOCK. Std.(DANGER)	10 ul	20 ppm	0.2 ppm
V-388307	INTERNAL STD@20PPM	20 ul	20 ppm	0.4 ppm

Veritech Lot Number: V-395645

Prepared By: Bis, Yolanta
Description: BNA SIM CAL STD.(DANGER)
Prep Date: 5/18/2023
Expiration Date: 7/26/2023
Department: Organics
BatchNumber: B-34820
Concentration: 1 ppm
Final Volume: 400 ul
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14864	Methylene Chloride Optima-4L	372 ul	NEAT neat	
V-395638	BNA SIMS STOCK. Std.(DANGER)	20 ul	20 ppm	1 ppm
V-388307	INTERNAL STD@20PPM	8 ul	20 ppm	0.4 ppm

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-395646

Prepared By: Bis, Yolanta
Description: BNA SIM CAL STD.(DANGER)
Prep Date: 5/18/2023
Expiration Date: 7/26/2023
Department: Organics
BatchNumber: B-34820
Concentration: 1 ppm
Final Volume: 400 ul
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14864	Methylene Chloride Optima-4L	380 ul	NEAT neat	
V-395638	BNA SIMS STOCK. Std.(DANGER)	20 ul	20 ppm	1 ppm

Veritech Lot Number: V-395647

Prepared By: Bis, Yolanta
Description: BNA SIM CAL STD.(DANGER)
Prep Date: 5/18/2023
Expiration Date: 7/26/2023
Department: Organics
BatchNumber: B-34820
Concentration: 0.1 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14864	Methylene Chloride Optima-4L	975 ul	NEAT neat	
V-395638	BNA SIMS STOCK. Std.(DANGER)	5 ul	20 ppm	0.1 ppm
V-388307	INTERNAL STD@20PPM	20 ul	20 ppm	0.4 ppm

Veritech Lot Number: V-395648

Prepared By: Bis, Yolanta
Description: BNA SIMICV 5PPM STD(DANGER)
Prep Date: 5/18/2023
Expiration Date: 7/26/2023
Department: Organics
BatchNumber:
Concentration: 5 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-395238	BNA STOCK Std.A (DANGER)	20 ul	250 ppm	5 ppm
V-380193	8270 EXTRA MIX#1(2nd Source)(DANGER)	.5 ul	10000 ppm	5 ppm
V-388307	INTERNAL STD@20PPM	20 ul	20 ppm	0.4 ppm
14864	Methylene Chloride Optima-4L	960 ul	NEAT neat	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 9149

Description
Diphenyl Ether

ApprovedBy: akmal
ApproveDate: 12/15/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	240834-5g	MKBH5698V	12/12/14	12/31/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 9150

Description
Benzaldehyde

ApprovedBy: akmal
ApproveDate: 12/15/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	B1334-5g	MKBP5021V	12/12/14	12/31/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 9435

Description
1,4-Dimethylnaphthalene

ApprovedBy: akmal
ApproveDate: 04/24/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	D170305-5G	STBD6188V	04/24/15	04/24/25	Hamid, Akmal	5	5G	95	%

Veritech Control/Receipt Number: 11341

Description
Acetophenone

ApprovedBy: akmal
ApproveDate: 12/26/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	42163-1ML-F	BCBV0864	12/20/17	12/20/25	Hamid, Akmal	1	1ML	NEAT	NEAT

Veritech Control/Receipt Number: 12019

Description
2,4,6-Tribromophenol

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma- Aldrich	137715-5G	S55013V	09/28/18	07/08/29	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12021

Description
Nitrobenzene-d5

ApprovedBy: akmal
ApproveDate: 10/01/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma- Aldrich	151955-5G	MBBC0000V	10/01/18	07/08/29	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12507

Description
1,4-Dichlorobenzene-D4

ApprovedBy: akmal
ApproveDate: 05/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL	DLM-268-0	PR-18488/08247CB1	05/20/19	06/07/27	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 12713

Description: Phenol-2,3,4,5,6-d5

ApprovedBy: akmal
ApproveDate: 08/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	425370-5G	MBBC4769	08/08/19	05/21/24	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12716

Description: 2-Fluorophenol

ApprovedBy: akmal
ApproveDate: 08/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	F12804-10G	STBH4989	08/08/19	05/21/28	Hamid, Akmal	1	10G	NEAT	NEAT

Veritech Control/Receipt Number: 12769

Description: Pyridine

ApprovedBy: janee
ApproveDate: 09/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Fisher	P368-1	190224	09/20/19	09/19/24	Wonge, Janee	1	1 L	neat	neat

Veritech Control/Receipt Number: 12783

Description: Pentachloroethane

ApprovedBy: akmal
ApproveDate: 09/24/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service Inc	N-12829-1G	8728100	09/24/19	12/31/23	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 12842

Description: 4,4'-DDT

ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	31041-100MG	BCBW0671	10/18/19	11/30/23	Hamid, Akmal	3	100M	NEAT	NEAT

Veritech Control/Receipt Number: 12843

Description: 1,2,4,5-Tetrachlorobenzene

ApprovedBy: akmal
ApproveDate: 03/04/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	131857-5G	MKCG5992	10/17/19	07/23/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12844

Description: Caprolactam

ApprovedBy: akmal
ApproveDate: 03/04/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	C2204-5G	MKCG1442	10/17/19	07/23/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 13086

Description
2-Fluorobiphenyl

ApprovedBy: akmal
ApproveDate: 03/03/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	102741-10G	MKCK0527	03/03/20	08/31/30	Hamid, Akmal	1	10G	NEAT	NEAT

Veritech Control/Receipt Number: 13106

Description
4,4' -DDE

ApprovedBy: akmal
ApproveDate: 03/10/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	RPN-10875-1G	9710700	03/10/20	02/28/25	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 13117

Description
Methylene Chloride optima

ApprovedBy: akmal
ApproveDate: 04/01/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Fisher	D1514	197501	03/13/20	01/31/25	Lopez, Jose	4	4L	neat	neat

Veritech Control/Receipt Number: 13494

Description
Biphenyl

ApprovedBy: akmal
ApproveDate: 09/11/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	35800-1G	BCBZ9522	09/11/20	12/31/23	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 13496

Description
Octadecane

ApprovedBy: akmal
ApproveDate: 09/11/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	O652-25G	MKCG6046	09/11/20	09/11/30	Hamid, Akmal	1	25G	NEAT	NEAT

Veritech Control/Receipt Number: 13602

Description
DFTPP STD.

ApprovedBy: akmal
ApproveDate: 11/13/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	442543	LRAC7179	11/12/20	07/23/23	Hamid, Akmal	1	100M	NEAT	NEAT

Veritech Control/Receipt Number: 13821

Description
1,4 Dioxane

ApprovedBy: akmal
ApproveDate: 03/22/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-10220-1G	11271700	03/19/21	08/30/23	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 13897

Description: Acenaphthene-d10

ApprovedBy: akmal
ApproveDate: 04/28/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL	DLM-108-0	PR-30913	04/23/21	08/16/29	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14140

Description: EPA TCL Hazardous subs. Mix

ApprovedBy: akmal
ApproveDate: 08/16/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	47990-U	LRAC9004	08/16/21	02/28/24	Hamid, Akmal	1	1ML	2000	PPM

Veritech Control/Receipt Number: 14141

Description: p-Terphenyl-d14

ApprovedBy: akmal
ApproveDate: 08/16/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	364630-500MG	MBBD0055	08/16/21	08/16/30	Hamid, Akmal	5	500M	NEAT	NEAT

Veritech Control/Receipt Number: 14182

Description: Coumarin

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-11508	12354100	09/14/21	09/30/29	Hamid, Akmal	2	IG	NEAT	NEAT

Veritech Control/Receipt Number: 14183

Description: n-Decane

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	n-12526-1G	12277000	09/14/21	09/30/25	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14187

Description: 4,4'-DDD

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-10874-250MG	12359100	09/14/21	05/31/24	Hamid, Akmal	4	250M	NEAT	NEAT

Veritech Control/Receipt Number: 14204

Description: 1- Methylnaphthalene

ApprovedBy: Akmal
ApproveDate: 09/28/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	45795-250MG	BCCC3346	09/28/21	01/31/25	Hamid, Akmal	5	250M	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14222

Description: Atrazine

ApprovedBy: akmal
ApproveDate: 10/06/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	45330	BCBZ3835	09/30/21	08/31/23	Hamid, Akmal	2	250M	NEAT	NEAT

Veritech Control/Receipt Number: 14446

Description: Polynuclear Aromatic Hydrocarbons Mix.

ApprovedBy: akmal
ApproveDate: 02/11/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	CRM48905	LRAD0869	02/07/22	11/30/24	Hamid, Akmal	1	1ML	2000	PPM

Veritech Control/Receipt Number: 14569

Description: MEGAMIX

ApprovedBy: akmal
ApproveDate: 05/06/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
RESTEK	31850	A0182362	05/02/22	09/30/23	Hamid, Akmal	2	1ML	1000	PPM

Veritech Control/Receipt Number: 14570

Description: BENZOIC ACID

ApprovedBy: akmal
ApproveDate: 05/06/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
RESTEK	31879	A0176303	05/02/22	09/30/25	Hamid, Akmal	1	ML	2000	PPM

Veritech Control/Receipt Number: 14598

Description: EPA TCL Benzidines Mix

ApprovedBy: akmal
ApproveDate: 05/23/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Millipore Sigma	48906	LRAD1455	05/20/22	01/31/25	Hamid, Akmal	1	1ML	2000	PPM

Veritech Control/Receipt Number: 14703

Description: acetone

ApprovedBy: akmal
ApproveDate: 07/07/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9254-03	22D1162003	06/30/22	03/19/25	Lopez, Jose	48	4L	neat	neat

Veritech Control/Receipt Number: 14759

Description: Phenolics Mix

ApprovedBy: akmal
ApproveDate: 07/28/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Spex Certiprep	CLPS-A	AA191210005	07/28/22	07/25/25	Hamid, Akmal	2	1ML	2000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14765

Description
dichloromethane

ApprovedBy: akmal
ApproveDate: 08/16/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco/EMD	DX0831	62161	08/02/22	08/01/27	Lopez, Jose	100	4L	neat	neat

Veritech Control/Receipt Number: 14800

Description
ACETONE

ApprovedBy: akmal
ApproveDate: 08/31/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
JT.Baker	9254-03	22E1562001	08/30/22	05/02/25	Lopez, Jose	16	4L	neat	neat

Veritech Control/Receipt Number: 14801

Description
acetone

ApprovedBy: akmal
ApproveDate: 08/31/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9254-03	22D1162003	08/30/22	03/19/25	Lopez, Jose	32	4L	neat	neat

Veritech Control/Receipt Number: 14802

Description
Dichloromethane

ApprovedBy: akmal
ApproveDate: 09/09/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco/EMD	DX0831-1	62231	08/31/22	08/30/27	Lopez, Jose	100	4L	neat	neat

Veritech Control/Receipt Number: 14808

Description
2,3,4,6-Tetrachlorophenol

ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	442282	LRAC9464	09/15/22	04/30/25	Hamid, Akmal	5	100M	NEAT	NEAT

Veritech Control/Receipt Number: 14864

Description
Methylene Chloride Optima-4L

ApprovedBy: akmal
ApproveDate: 09/29/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Fisher Chemical	D151-4	223493	09/28/22	08/31/27	Hamid, Akmal	4	4L	NEAT	NEAT

Veritech Control/Receipt Number: 15050

Description
EPA TCL Benzidines Mix

ApprovedBy: akmal
ApproveDate: 01/20/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco	48906	LRAD1455	01/20/23	01/31/25	Hamid, Akmal	2	1ML	2000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15082

Description: 1,4-Dioxane-D8

ApprovedBy: akmal
ApproveDate: 06/15/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL, Inc.	DLM-28-0	I-26030A	02/06/23	02/06/26	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 15084

Description: Naphthalene-D8

ApprovedBy: akmal
ApproveDate: 02/07/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL INC,	DLM-365-0	PR-30164/121418NP	02/06/23	01/04/29	Hamid, Akmal	1	IG	NEAT	NEAT

Veritech Control/Receipt Number: 15086

Description: Phenanthrene-d10

ApprovedBy: akmal
ApproveDate: 02/07/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL INC,	DLM-371-0	PR-29119	02/06/23	11/10/27	Hamid, Akmal	1	IG	NEAT	NEAT

Veritech Control/Receipt Number: 15087

Description: Chrysene-d12

ApprovedBy: akmal
ApproveDate: 05/02/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL INC,	DLM-261-0	PR33506	02/06/23	11/30/32	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 15088

Description: Perylene-d12

ApprovedBy: akmal
ApproveDate: 02/07/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL INC,	DLM-366-0	PR-31716	02/06/23	05/18/30	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 15169

Description: EPA TCL BASE-NEUTRALS Mix

ApprovedBy: akmal
ApproveDate: 03/23/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SIGMA ALDRICH	47991-U	LRAD4201	03/23/23	02/28/26	Hamid, Akmal	2	1ML	2000	PPM

Veritech Control/Receipt Number: 15268

Description: DDT - Endrin Mix

ApprovedBy: akmal
ApproveDate: 05/11/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma Aldrich	48282	LRAD4476	05/10/23	03/31/26	Hamid, Akmal	3	1ML	500	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 9149

Description: Diphenyl Ether

ApprovedBy: akmal
ApproveDate: 12/15/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	240834-5g	MKBH5698V	12/12/14	12/31/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 9150

Description: Benzaldehyde

ApprovedBy: akmal
ApproveDate: 12/15/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	B1334-5g	MKBP5021V	12/12/14	12/31/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 9435

Description: 1,4-Dimethylnaphthalene

ApprovedBy: akmal
ApproveDate: 04/24/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	D170305-5G	STBD6188V	04/24/15	04/24/25	Hamid, Akmal	5	5G	95	%

Veritech Control/Receipt Number: 11341

Description: Acetophenone

ApprovedBy: akmal
ApproveDate: 12/26/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	42163-1ML-F	BCBV0864	12/20/17	12/20/25	Hamid, Akmal	1	1ML	NEAT	NEAT

Veritech Control/Receipt Number: 12019

Description: 2,4,6-Tribromophenol

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma- Aldrich	137715-5G	S55013V	09/28/18	07/08/29	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12021

Description: Nitrobenzene-d5

ApprovedBy: akmal
ApproveDate: 10/01/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma- Aldrich	151955-5G	MBBC0000V	10/01/18	07/08/29	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12713

Description: Phenol-2,3,4,5,6-d5

ApprovedBy: akmal
ApproveDate: 08/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	425370-5G	MBBC4769	08/08/19	05/21/24	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 12716

Description
2-Fluorophenol

ApprovedBy: akmal
ApproveDate: 08/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	F12804-10G	STBH4989	08/08/19	05/21/28	Hamid, Akmal	1	10G	NEAT	NEAT

Veritech Control/Receipt Number: 12769

Description
Pyridine

ApprovedBy: janee
ApproveDate: 09/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Fisher	P368-1	190224	09/20/19	09/19/24	Wonge, Janee	1	1 L	neat	neat

Veritech Control/Receipt Number: 12783

Description
Pentachloroethane

ApprovedBy: akmal
ApproveDate: 09/24/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service Inc	N-12829-1G	8728100	09/24/19	12/31/23	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 12842

Description
4,4'-DDT

ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	31041-100MG	BCBW0671	10/18/19	11/30/23	Hamid, Akmal	3	100M	NEAT	NEAT

Veritech Control/Receipt Number: 12843

Description
1,2,4,5-Tetrachlorobenzene

ApprovedBy: akmal
ApproveDate: 03/04/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	131857-5G	MKCG5992	10/17/19	07/23/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12844

Description
Caprolactam

ApprovedBy: akmal
ApproveDate: 03/04/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	C2204-5G	MKCG1442	10/17/19	07/23/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 13086

Description
2-Fluorobiphenyl

ApprovedBy: akmal
ApproveDate: 03/03/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	102741-10G	MKCK0527	03/03/20	08/31/30	Hamid, Akmal	1	10G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 13106

Description: 4,4' -DDE

ApprovedBy: akmal
ApproveDate: 03/10/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	RPN-10875-1G	9710700	03/10/20	02/28/25	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 13494

Description: Biphenyl

ApprovedBy: akmal
ApproveDate: 09/11/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	35800-1G	BCBZ9522	09/11/20	12/31/23	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 13496

Description: Octadecane

ApprovedBy: akmal
ApproveDate: 09/11/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	O652-25G	MKCG6046	09/11/20	09/11/30	Hamid, Akmal	1	25G	NEAT	NEAT

Veritech Control/Receipt Number: 13659

Description: PYRIDINE

ApprovedBy: jessica
ApproveDate: 12/10/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Fisher	P368-1	203790	12/10/20	12/09/30	Patel, Jessica	1	1 L	NEAT	NEAT

Veritech Control/Receipt Number: 13821

Description: 1,4 Dioxane

ApprovedBy: akmal
ApproveDate: 03/22/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-10220-1G	11271700	03/19/21	08/30/23	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14141

Description: p-Terphenyl-d14

ApprovedBy: akmal
ApproveDate: 08/16/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	364630-500MG	MBBD0055	08/16/21	08/16/30	Hamid, Akmal	5	500M	NEAT	NEAT

Veritech Control/Receipt Number: 14182

Description: Coumarin

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-11508	12354100	09/14/21	09/30/29	Hamid, Akmal	2	IG	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14183

Description
n-Decane

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	n-12526-1G	12277000	09/14/21	09/30/25	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14184

Description
Carbazole

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-11403-1G	12358900	09/14/21	10/31/25	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14187

Description
4,4'-DDD

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-10874-250MG	12359100	09/14/21	05/31/24	Hamid, Akmal	4	250M	NEAT	NEAT

Veritech Control/Receipt Number: 14204

Description
1- Methylnaphthalene

ApprovedBy: Akmal
ApproveDate: 09/28/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	45795-250MG	BCCC3346	09/28/21	01/31/25	Hamid, Akmal	5	250M	NEAT	NEAT

Veritech Control/Receipt Number: 14219

Description
4,6-Dinitro-o-Cresol

ApprovedBy: akmal
ApproveDate: 10/06/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
AccuStandard	AS-E0058	218121434-01	10/05/21	10/04/24	Hamid, Akmal	1	1ML	5000	PPM

Veritech Control/Receipt Number: 14222

Description
Atrazine

ApprovedBy: akmal
ApproveDate: 10/06/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	45330	BCBZ3835	09/30/21	08/31/23	Hamid, Akmal	2	250M	NEAT	NEAT

Veritech Control/Receipt Number: 14223

Description
Pentachlorophenol

ApprovedBy: akmal
ApproveDate: 10/06/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	40062	LRAD0592	10/06/21	09/30/24	Hamid, Akmal	1	1ML	5000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14224

Description	ApprovedBy: akmal ApproveDate: 10/06/21 Checked: Yes
N-Nitrosodimethylamine	

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	CRM40059	LRAC9913	10/06/21	07/31/24	Hamid, Akmal	1	1ML	5000	PPM

Veritech Control/Receipt Number: 14569

Description	ApprovedBy: akmal ApproveDate: 05/06/22 Checked: Yes
MEGAMIX	

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
RESTEK	31850	A0182362	05/02/22	09/30/23	Hamid, Akmal	2	1ML	1000	PPM

Veritech Control/Receipt Number: 14570

Description	ApprovedBy: akmal ApproveDate: 05/06/22 Checked: Yes
BENZOIC ACID	

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
RESTEK	31879	A0176303	05/02/22	09/30/25	Hamid, Akmal	1	ML	2000	PPM

Veritech Control/Receipt Number: 14598

Description	ApprovedBy: akmal ApproveDate: 05/23/22 Checked: Yes
EPA TCL Benzidines Mix	

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Millipore Sigma	48906	LRAD1455	05/20/22	01/31/25	Hamid, Akmal	1	1ML	2000	PPM

Veritech Control/Receipt Number: 14703

Description	ApprovedBy: akmal ApproveDate: 07/07/22 Checked: Yes
acetone	

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9254-03	22D1162003	06/30/22	03/19/25	Lopez, Jose	48	4L	neat	neat

Veritech Control/Receipt Number: 14765

Description	ApprovedBy: akmal ApproveDate: 08/16/22 Checked: Yes
dichloromethane	

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco/EMD	DX0831	62161	08/02/22	08/01/27	Lopez, Jose	100	4L	neat	neat

Veritech Control/Receipt Number: 14800

Description	ApprovedBy: akmal ApproveDate: 08/31/22 Checked: Yes
ACETONE	

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
JT.Baker	9254-03	22E1562001	08/30/22	05/02/25	Lopez, Jose	16	4L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14801

Description: acetone

ApprovedBy: akmal
ApproveDate: 08/31/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9254-03	22D1162003	08/30/22	03/19/25	Lopez, Jose	32	4L	neat	neat

Veritech Control/Receipt Number: 14802

Description: Dichloromethane

ApprovedBy: akmal
ApproveDate: 09/09/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco/EMD	DX0831-1	62231	08/31/22	08/30/27	Lopez, Jose	100	4L	neat	neat

Veritech Control/Receipt Number: 14810

Description: Benzidine solution

ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	40005	LRAC8551	09/15/22	12/31/23	Hamid, Akmal	1	1ML	5000	PPM

Veritech Control/Receipt Number: 14811

Description: 2,4-Dinitrolphenol

ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	40057	LRAD1708	09/15/22	02/28/25	Hamid, Akmal	1	1ML	5000	PPM

Veritech Control/Receipt Number: 14821

Description: Biphenyl

ApprovedBy: akmal
ApproveDate: 09/16/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	35800-1G	BCCF1061	09/16/22	10/31/25	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14831

Description: Pentachloroethane

ApprovedBy: akmal
ApproveDate: 09/19/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem-Service	N-12829-250MG	12860800	09/19/22	12/31/23	Hamid, Akmal	2	250M	NEAT	NEAT

Veritech Control/Receipt Number: 14864

Description: Methylene Chloride Optima-4L

ApprovedBy: akmal
ApproveDate: 09/29/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Fisher Chemical	D151-4	223493	09/28/22	08/31/27	Hamid, Akmal	4	4L	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14977

Description: Hexachlorocyclopentadiene

ApprovedBy: akmal
ApproveDate: 12/09/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
AccuStandard	AS-E0051	221121349	12/09/22	01/23/24	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 15241

Description: Sodium Hydroxide , Pallets , ACS

ApprovedBy: akmal
ApproveDate: 04/28/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
LAB SALES	LS - 2755095	220713 - 2A	04/27/23	04/26/28	Cajuste, Pierre	2	12 Kg	Neat	Neat

Veritech Control/Receipt Number: 15275

Description: acetone

ApprovedBy: akmal
ApproveDate: 05/16/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Tedia	AA1111	22070110	05/15/23	07/23/24	Lopez, Jose	48	4L	neat	neat

Veritech Control/Receipt Number: 15340

Description: DI H2O

ApprovedBy: jessica
ApproveDate: 06/25/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
EVOQUA	1	1	06/01/23	06/01/24	Cousineau, Paul	1			

Veritech Control/Receipt Number: 15342

Description: sodium sulfate

ApprovedBy: akmal
ApproveDate: 06/07/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Allan Corp.	6399	208404	06/05/23	06/04/28	Lopez, Jose	6	100L	neat	neat

Veritech Control/Receipt Number: 15356

Description: Acetone

ApprovedBy: akmal
ApproveDate: 06/12/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
TEDIA	AA1111	22070110	06/09/23	07/23/24	Cajuste, Pierre	80	4 L	Neat	Neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15124

Description
Base/Neutral Composite

ApprovedBy: jean
ApproveDate: 02/23/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ACCUSTANDAR	CLP-HC-BN-PAK	222041298-01	02/23/23	02/20/24	Revolus, Jean	20	1ml	2000	PPM

Veritech Control/Receipt Number: 15125

Description
Toxic Substances Mix #2

ApprovedBy: jean
ApproveDate: 02/23/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ACCUSTANDAR	Z-014E-PAK	222041218	02/23/23	05/13/24	Revolus, Jean	4	1ml	2000	PPM

Veritech Control/Receipt Number: 15283

Description
Acid Composite Mixture

ApprovedBy: jean
ApproveDate: 05/17/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ACCUSTANDAR	CLP-HC-A-R-PAK	222111297	05/17/23	11/30/25	Revolus, Jean	20	1ml	2000	PPM

Veritech Control/Receipt Number: 15357

Description
Dichloromethane

ApprovedBy: akmal
ApproveDate: 06/13/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco/EMD	DX0831	63083	06/12/23	06/11/28	Lopez, Jose	100	4L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15124

Description: Base/Neutral Composite

ApprovedBy: jean
ApproveDate: 02/23/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ACCUSTANDAR	CLP-HC-BN-PAK	222041298-01	02/23/23	02/20/24	Revolus, Jean	20	1ml	2000	PPM

Veritech Control/Receipt Number: 15125

Description: Toxic Substances Mix #2

ApprovedBy: jean
ApproveDate: 02/23/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ACCUSTANDAR	Z-014E-PAK	222041218	02/23/23	05/13/24	Revolus, Jean	4	1ml	2000	PPM

Veritech Control/Receipt Number: 15283

Description: Acid Composite Mixture

ApprovedBy: jean
ApproveDate: 05/17/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ACCUSTANDAR	CLP-HC-A-R-PAK	222111297	05/17/23	11/30/25	Revolus, Jean	20	1ml	2000	PPM

Veritech Control/Receipt Number: 15357

Description: Dichloromethane

ApprovedBy: akmal
ApproveDate: 06/13/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco/EMD	DX0831	63083	06/12/23	06/11/28	Lopez, Jose	100	4L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 9149

Description: Diphenyl Ether

ApprovedBy: akmal
ApproveDate: 12/15/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	240834-5g	MKBH5698V	12/12/14	12/31/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 9150

Description: Benzaldehyde

ApprovedBy: akmal
ApproveDate: 12/15/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	B1334-5g	MKBP5021V	12/12/14	12/31/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 9435

Description: 1,4-Dimethylnaphthalene

ApprovedBy: akmal
ApproveDate: 04/24/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	D170305-5G	STBD6188V	04/24/15	04/24/25	Hamid, Akmal	5	5G	95	%

Veritech Control/Receipt Number: 11341

Description: Acetophenone

ApprovedBy: akmal
ApproveDate: 12/26/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	42163-1ML-F	BCBV0864	12/20/17	12/20/25	Hamid, Akmal	1	1ML	NEAT	NEAT

Veritech Control/Receipt Number: 12019

Description: 2,4,6-Tribromophenol

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma- Aldrich	137715-5G	S55013V	09/28/18	07/08/29	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12021

Description: Nitrobenzene-d5

ApprovedBy: akmal
ApproveDate: 10/01/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma- Aldrich	151955-5G	MBBC0000V	10/01/18	07/08/29	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12713

Description: Phenol-2,3,4,5,6-d5

ApprovedBy: akmal
ApproveDate: 08/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	425370-5G	MBBC4769	08/08/19	05/21/24	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 12716

Description: 2-Fluorophenol

ApprovedBy: akmal
ApproveDate: 08/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	F12804-10G	STBH4989	08/08/19	05/21/28	Hamid, Akmal	1	10G	NEAT	NEAT

Veritech Control/Receipt Number: 12769

Description: Pyridine

ApprovedBy: janee
ApproveDate: 09/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Fisher	P368-1	190224	09/20/19	09/19/24	Wonge, Janee	1	1 L	neat	neat

Veritech Control/Receipt Number: 12783

Description: Pentachloroethane

ApprovedBy: akmal
ApproveDate: 09/24/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service Inc	N-12829-1G	8728100	09/24/19	12/31/23	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 12842

Description: 4,4'-DDT

ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	31041-100MG	BCBW0671	10/18/19	11/30/23	Hamid, Akmal	3	100M	NEAT	NEAT

Veritech Control/Receipt Number: 12843

Description: 1,2,4,5-Tetrachlorobenzene

ApprovedBy: akmal
ApproveDate: 03/04/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	131857-5G	MKCG5992	10/17/19	07/23/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12844

Description: Caprolactam

ApprovedBy: akmal
ApproveDate: 03/04/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	C2204-5G	MKCG1442	10/17/19	07/23/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 13086

Description: 2-Fluorobiphenyl

ApprovedBy: akmal
ApproveDate: 03/03/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	102741-10G	MKCK0527	03/03/20	08/31/30	Hamid, Akmal	1	10G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 13106

Description: 4,4' -DDE

ApprovedBy: akmal
ApproveDate: 03/10/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	RPN-10875-1G	9710700	03/10/20	02/28/25	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 13494

Description: Biphenyl

ApprovedBy: akmal
ApproveDate: 09/11/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	35800-1G	BCBZ9522	09/11/20	12/31/23	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 13496

Description: Octadecane

ApprovedBy: akmal
ApproveDate: 09/11/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	O652-25G	MKCG6046	09/11/20	09/11/30	Hamid, Akmal	1	25G	NEAT	NEAT

Veritech Control/Receipt Number: 13659

Description: PYRIDINE

ApprovedBy: jessica
ApproveDate: 12/10/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Fisher	P368-1	203790	12/10/20	12/09/30	Patel, Jessica	1	1 L	NEAT	NEAT

Veritech Control/Receipt Number: 13821

Description: 1,4 Dioxane

ApprovedBy: akmal
ApproveDate: 03/22/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-10220-1G	11271700	03/19/21	08/30/23	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14141

Description: p-Terphenyl-d14

ApprovedBy: akmal
ApproveDate: 08/16/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	364630-500MG	MBBD0055	08/16/21	08/16/30	Hamid, Akmal	5	500M	NEAT	NEAT

Veritech Control/Receipt Number: 14182

Description: Coumarin

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-11508	12354100	09/14/21	09/30/29	Hamid, Akmal	2	IG	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14183

Description: n-Decane

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	n-12526-1G	12277000	09/14/21	09/30/25	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14184

Description: Carbazole

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-11403-1G	12358900	09/14/21	10/31/25	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14187

Description: 4,4'-DDD

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-10874-250MG	12359100	09/14/21	05/31/24	Hamid, Akmal	4	250M	NEAT	NEAT

Veritech Control/Receipt Number: 14204

Description: 1- Methylnaphthalene

ApprovedBy: Akmal
ApproveDate: 09/28/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	45795-250MG	BCCC3346	09/28/21	01/31/25	Hamid, Akmal	5	250M	NEAT	NEAT

Veritech Control/Receipt Number: 14219

Description: 4,6-Dinitro-o-Cresol

ApprovedBy: akmal
ApproveDate: 10/06/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
AccuStandard	AS-E0058	218121434-01	10/05/21	10/04/24	Hamid, Akmal	1	1ML	5000	PPM

Veritech Control/Receipt Number: 14222

Description: Atrazine

ApprovedBy: akmal
ApproveDate: 10/06/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	45330	BCBZ3835	09/30/21	08/31/23	Hamid, Akmal	2	250M	NEAT	NEAT

Veritech Control/Receipt Number: 14223

Description: Pentachlorophenol

ApprovedBy: akmal
ApproveDate: 10/06/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	40062	LRAD0592	10/06/21	09/30/24	Hamid, Akmal	1	1ML	5000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14224

Description: N-Nitrosodimethylamine

ApprovedBy: akmal
ApproveDate: 10/06/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	CRM40059	LRAC9913	10/06/21	07/31/24	Hamid, Akmal	1	1ML	5000	PPM

Veritech Control/Receipt Number: 14569

Description: MEGAMIX

ApprovedBy: akmal
ApproveDate: 05/06/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
RESTEK	31850	A0182362	05/02/22	09/30/23	Hamid, Akmal	2	1ML	1000	PPM

Veritech Control/Receipt Number: 14570

Description: BENZOIC ACID

ApprovedBy: akmal
ApproveDate: 05/06/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
RESTEK	31879	A0176303	05/02/22	09/30/25	Hamid, Akmal	1	ML	2000	PPM

Veritech Control/Receipt Number: 14598

Description: EPA TCL Benzidines Mix

ApprovedBy: akmal
ApproveDate: 05/23/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Millipore Sigma	48906	LRAD1455	05/20/22	01/31/25	Hamid, Akmal	1	1ML	2000	PPM

Veritech Control/Receipt Number: 14703

Description: acetone

ApprovedBy: akmal
ApproveDate: 07/07/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9254-03	22D1162003	06/30/22	03/19/25	Lopez, Jose	48	4L	neat	neat

Veritech Control/Receipt Number: 14765

Description: dichloromethane

ApprovedBy: akmal
ApproveDate: 08/16/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco/EMD	DX0831	62161	08/02/22	08/01/27	Lopez, Jose	100	4L	neat	neat

Veritech Control/Receipt Number: 14800

Description: ACETONE

ApprovedBy: akmal
ApproveDate: 08/31/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
JT.Baker	9254-03	22E1562001	08/30/22	05/02/25	Lopez, Jose	16	4L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14801

Description: acetone

ApprovedBy: akmal
ApproveDate: 08/31/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9254-03	22D1162003	08/30/22	03/19/25	Lopez, Jose	32	4L	neat	neat

Veritech Control/Receipt Number: 14802

Description: Dichloromethane

ApprovedBy: akmal
ApproveDate: 09/09/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco/EMD	DX0831-1	62231	08/31/22	08/30/27	Lopez, Jose	100	4L	neat	neat

Veritech Control/Receipt Number: 14810

Description: Benzidine solution

ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	40005	LRAC8551	09/15/22	12/31/23	Hamid, Akmal	1	1ML	5000	PPM

Veritech Control/Receipt Number: 14811

Description: 2,4-Dinitrolphenol

ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	40057	LRAD1708	09/15/22	02/28/25	Hamid, Akmal	1	1ML	5000	PPM

Veritech Control/Receipt Number: 14821

Description: Biphenyl

ApprovedBy: akmal
ApproveDate: 09/16/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	35800-1G	BCCF1061	09/16/22	10/31/25	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14831

Description: Pentachloroethane

ApprovedBy: akmal
ApproveDate: 09/19/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem-Service	N-12829-250MG	12860800	09/19/22	12/31/23	Hamid, Akmal	2	250M	NEAT	NEAT

Veritech Control/Receipt Number: 14864

Description: Methylene Chloride Optima-4L

ApprovedBy: akmal
ApproveDate: 09/29/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Fisher Chemical	D151-4	223493	09/28/22	08/31/27	Hamid, Akmal	4	4L	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14977

Description: Hexachlorocyclopentadiene

ApprovedBy: akmal
ApproveDate: 12/09/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
AccuStandard	AS-E0051	221121349	12/09/22	01/23/24	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 15241

Description: Sodium Hydroxide , Pallets , ACS

ApprovedBy: akmal
ApproveDate: 04/28/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
LAB SALES	LS - 2755095	220713 - 2A	04/27/23	04/26/28	Cajuste, Pierre	2	12 Kg	Neat	Neat

Veritech Control/Receipt Number: 15275

Description: acetone

ApprovedBy: akmal
ApproveDate: 05/16/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Tedia	AA1111	22070110	05/15/23	07/23/24	Lopez, Jose	48	4L	neat	neat

Veritech Control/Receipt Number: 15340

Description: DI H2O

ApprovedBy: jessica
ApproveDate: 06/25/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
EVOQUA	1	1	06/01/23	06/01/24	Cousineau, Paul	1			

Veritech Control/Receipt Number: 15342

Description: sodium sulfate

ApprovedBy: akmal
ApproveDate: 06/07/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Allan Corp.	6399	208404	06/05/23	06/04/28	Lopez, Jose	6	100L	neat	neat

Veritech Control/Receipt Number: 15356

Description: Acetone

ApprovedBy: akmal
ApproveDate: 06/12/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
TEDIA	AA1111	22070110	06/09/23	07/23/24	Cajuste, Pierre	80	4 L	Neat	Neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 9149

Description
Diphenyl Ether

ApprovedBy: akmal
ApproveDate: 12/15/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	240834-5g	MKBH5698V	12/12/14	12/31/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 9150

Description
Benzaldehyde

ApprovedBy: akmal
ApproveDate: 12/15/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	B1334-5g	MKBP5021V	12/12/14	12/31/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 9435

Description
1,4-Dimethylnaphthalene

ApprovedBy: akmal
ApproveDate: 04/24/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	D170305-5G	STBD6188V	04/24/15	04/24/25	Hamid, Akmal	5	5G	95	%

Veritech Control/Receipt Number: 11341

Description
Acetophenone

ApprovedBy: akmal
ApproveDate: 12/26/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	42163-1ML-F	BCBV0864	12/20/17	12/20/25	Hamid, Akmal	1	1ML	NEAT	NEAT

Veritech Control/Receipt Number: 12019

Description
2,4,6-Tribromophenol

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma- Aldrich	137715-5G	S55013V	09/28/18	07/08/29	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12021

Description
Nitrobenzene-d5

ApprovedBy: akmal
ApproveDate: 10/01/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma- Aldrich	151955-5G	MBBC0000V	10/01/18	07/08/29	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12507

Description
1,4-Dichlorobenzene-D4

ApprovedBy: akmal
ApproveDate: 05/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL	DLM-268-0	PR-18488/08247CB1	05/20/19	06/07/27	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 12713

Description: Phenol-2,3,4,5,6-d5

ApprovedBy: akmal
ApproveDate: 08/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	425370-5G	MBBC4769	08/08/19	05/21/24	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12716

Description: 2-Fluorophenol

ApprovedBy: akmal
ApproveDate: 08/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	F12804-10G	STBH4989	08/08/19	05/21/28	Hamid, Akmal	1	10G	NEAT	NEAT

Veritech Control/Receipt Number: 12769

Description: Pyridine

ApprovedBy: janee
ApproveDate: 09/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Fisher	P368-1	190224	09/20/19	09/19/24	Wonge, Janee	1	1 L	neat	neat

Veritech Control/Receipt Number: 12783

Description: Pentachloroethane

ApprovedBy: akmal
ApproveDate: 09/24/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service Inc	N-12829-1G	8728100	09/24/19	12/31/23	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 12842

Description: 4,4'-DDT

ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	31041-100MG	BCBW0671	10/18/19	11/30/23	Hamid, Akmal	3	100M	NEAT	NEAT

Veritech Control/Receipt Number: 12843

Description: 1,2,4,5-Tetrachlorobenzene

ApprovedBy: akmal
ApproveDate: 03/04/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	131857-5G	MKCG5992	10/17/19	07/23/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12844

Description: Caprolactam

ApprovedBy: akmal
ApproveDate: 03/04/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	C2204-5G	MKCG1442	10/17/19	07/23/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 13086

Description: 2-Fluorobiphenyl

ApprovedBy: akmal
ApproveDate: 03/03/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	102741-10G	MKCK0527	03/03/20	08/31/30	Hamid, Akmal	1	10G	NEAT	NEAT

Veritech Control/Receipt Number: 13106

Description: 4,4' -DDE

ApprovedBy: akmal
ApproveDate: 03/10/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	RPN-10875-1G	9710700	03/10/20	02/28/25	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 13117

Description: Methylene Chloride optima

ApprovedBy: akmal
ApproveDate: 04/01/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Fisher	D1514	197501	03/13/20	01/31/25	Lopez, Jose	4	4L	neat	neat

Veritech Control/Receipt Number: 13494

Description: Biphenyl

ApprovedBy: akmal
ApproveDate: 09/11/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	35800-1G	BCBZ9522	09/11/20	12/31/23	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 13496

Description: Octadecane

ApprovedBy: akmal
ApproveDate: 09/11/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	O652-25G	MKCG6046	09/11/20	09/11/30	Hamid, Akmal	1	25G	NEAT	NEAT

Veritech Control/Receipt Number: 13602

Description: DFTPP STD.

ApprovedBy: akmal
ApproveDate: 11/13/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	442543	LRAC7179	11/12/20	07/23/23	Hamid, Akmal	1	100M	NEAT	NEAT

Veritech Control/Receipt Number: 13821

Description: 1,4 Dioxane

ApprovedBy: akmal
ApproveDate: 03/22/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-10220-1G	11271700	03/19/21	08/30/23	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 13897

Description
Acenaphthene-d10

ApprovedBy: akmal
ApproveDate: 04/28/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL	DLM-108-0	PR-30913	04/23/21	08/16/29	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14140

Description
EPA TCL Hazardous subs. Mix

ApprovedBy: akmal
ApproveDate: 08/16/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	47990-U	LRAC9004	08/16/21	02/28/24	Hamid, Akmal	1	1ML	2000	PPM

Veritech Control/Receipt Number: 14141

Description
p-Terphenyl-d14

ApprovedBy: akmal
ApproveDate: 08/16/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	364630-500MG	MBBD0055	08/16/21	08/16/30	Hamid, Akmal	5	500M	NEAT	NEAT

Veritech Control/Receipt Number: 14182

Description
Coumarin

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-11508	12354100	09/14/21	09/30/29	Hamid, Akmal	2	IG	NEAT	NEAT

Veritech Control/Receipt Number: 14183

Description
n-Decane

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	n-12526-1G	12277000	09/14/21	09/30/25	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14187

Description
4,4'-DDD

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-10874-250MG	12359100	09/14/21	05/31/24	Hamid, Akmal	4	250M	NEAT	NEAT

Veritech Control/Receipt Number: 14204

Description
1- Methylnaphthalene

ApprovedBy: Akmal
ApproveDate: 09/28/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	45795-250MG	BCCC3346	09/28/21	01/31/25	Hamid, Akmal	5	250M	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14222

Description
Atrazine

ApprovedBy: akmal
ApproveDate: 10/06/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	45330	BCBZ3835	09/30/21	08/31/23	Hamid, Akmal	2	250M	NEAT	NEAT

Veritech Control/Receipt Number: 14446

Description
Polynuclear Aromatic Hydrocarbons Mix.

ApprovedBy: akmal
ApproveDate: 02/11/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	CRM48905	LRAD0869	02/07/22	11/30/24	Hamid, Akmal	1	1ML	2000	PPM

Veritech Control/Receipt Number: 14569

Description
MEGAMIX

ApprovedBy: akmal
ApproveDate: 05/06/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
RESTEK	31850	A0182362	05/02/22	09/30/23	Hamid, Akmal	2	1ML	1000	PPM

Veritech Control/Receipt Number: 14570

Description
BENZOIC ACID

ApprovedBy: akmal
ApproveDate: 05/06/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
RESTEK	31879	A0176303	05/02/22	09/30/25	Hamid, Akmal	1	ML	2000	PPM

Veritech Control/Receipt Number: 14598

Description
EPA TCL Benzidines Mix

ApprovedBy: akmal
ApproveDate: 05/23/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Millipore Sigma	48906	LRAD1455	05/20/22	01/31/25	Hamid, Akmal	1	1ML	2000	PPM

Veritech Control/Receipt Number: 14703

Description
acetone

ApprovedBy: akmal
ApproveDate: 07/07/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9254-03	22D1162003	06/30/22	03/19/25	Lopez, Jose	48	4L	neat	neat

Veritech Control/Receipt Number: 14759

Description
Phenolics Mix

ApprovedBy: akmal
ApproveDate: 07/28/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Spex Certiprep	CLPS-A	AA191210005	07/28/22	07/25/25	Hamid, Akmal	2	1ML	2000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14765

Description: dichloromethane

ApprovedBy: akmal
ApproveDate: 08/16/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco/EMD	DX0831	62161	08/02/22	08/01/27	Lopez, Jose	100	4L	neat	neat

Veritech Control/Receipt Number: 14800

Description: ACETONE

ApprovedBy: akmal
ApproveDate: 08/31/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
JT.Baker	9254-03	22E1562001	08/30/22	05/02/25	Lopez, Jose	16	4L	neat	neat

Veritech Control/Receipt Number: 14801

Description: acetone

ApprovedBy: akmal
ApproveDate: 08/31/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9254-03	22D1162003	08/30/22	03/19/25	Lopez, Jose	32	4L	neat	neat

Veritech Control/Receipt Number: 14802

Description: Dichloromethane

ApprovedBy: akmal
ApproveDate: 09/09/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco/EMD	DX0831-1	62231	08/31/22	08/30/27	Lopez, Jose	100	4L	neat	neat

Veritech Control/Receipt Number: 14808

Description: 2,3,4,6-Tetrachlorophenol

ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	442282	LRAC9464	09/15/22	04/30/25	Hamid, Akmal	5	100M	NEAT	NEAT

Veritech Control/Receipt Number: 14864

Description: Methylene Chloride Optima-4L

ApprovedBy: akmal
ApproveDate: 09/29/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Fisher Chemical	D151-4	223493	09/28/22	08/31/27	Hamid, Akmal	4	4L	NEAT	NEAT

Veritech Control/Receipt Number: 15050

Description: EPA TCL Benzidines Mix

ApprovedBy: akmal
ApproveDate: 01/20/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco	48906	LRAD1455	01/20/23	01/31/25	Hamid, Akmal	2	1ML	2000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15082

Description: 1,4-Dioxane-D8

ApprovedBy: akmal
ApproveDate: 06/15/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL, Inc.	DLM-28-0	I-26030A	02/06/23	02/06/26	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 15084

Description: Naphthalene-D8

ApprovedBy: akmal
ApproveDate: 02/07/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL INC,	DLM-365-0	PR-30164/121418NP	02/06/23	01/04/29	Hamid, Akmal	1	IG	NEAT	NEAT

Veritech Control/Receipt Number: 15086

Description: Phenanthrene-d10

ApprovedBy: akmal
ApproveDate: 02/07/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL INC,	DLM-371-0	PR-29119	02/06/23	11/10/27	Hamid, Akmal	1	IG	NEAT	NEAT

Veritech Control/Receipt Number: 15087

Description: Chrysene-d12

ApprovedBy: akmal
ApproveDate: 05/02/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL INC,	DLM-261-0	PR33506	02/06/23	11/30/32	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 15088

Description: Perylene-d12

ApprovedBy: akmal
ApproveDate: 02/07/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL INC,	DLM-366-0	PR-31716	02/06/23	05/18/30	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 15169

Description: EPA TCL BASE-NEUTRALS Mix

ApprovedBy: akmal
ApproveDate: 03/23/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SIGMA ALDRICH	47991-U	LRAD4201	03/23/23	02/28/26	Hamid, Akmal	2	1ML	2000	PPM

Veritech Control/Receipt Number: 15268

Description: DDT - Endrin Mix

ApprovedBy: akmal
ApproveDate: 05/11/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma Aldrich	48282	LRAD4476	05/10/23	03/31/26	Hamid, Akmal	3	1ML	500	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 9149

Description: Diphenyl Ether

ApprovedBy: akmal
ApproveDate: 12/15/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	240834-5g	MKBH5698V	12/12/14	12/31/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 9435

Description: 1,4-Dimethylnaphthalene

ApprovedBy: akmal
ApproveDate: 04/24/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	D170305-5G	STBD6188V	04/24/15	04/24/25	Hamid, Akmal	5	5G	95	%

Veritech Control/Receipt Number: 11341

Description: Acetophenone

ApprovedBy: akmal
ApproveDate: 12/26/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	42163-1ML-F	BCBV0864	12/20/17	12/20/25	Hamid, Akmal	1	1ML	NEAT	NEAT

Veritech Control/Receipt Number: 12019

Description: 2,4,6-Tribromophenol

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma- Aldrich	137715-5G	S55013V	09/28/18	07/08/29	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12021

Description: Nitrobenzene-d5

ApprovedBy: akmal
ApproveDate: 10/01/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma- Aldrich	151955-5G	MBBC0000V	10/01/18	07/08/29	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12507

Description: 1,4-Dichlorobenzene-D4

ApprovedBy: akmal
ApproveDate: 05/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL	DLM-268-0	PR-18488/08247CB1	05/20/19	06/07/27	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 12713

Description: Phenol-2,3,4,5,6-d5

ApprovedBy: akmal
ApproveDate: 08/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	425370-5G	MBBC4769	08/08/19	05/21/24	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 12716

Description: 2-Fluorophenol

ApprovedBy: akmal
ApproveDate: 08/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	F12804-10G	STBH4989	08/08/19	05/21/28	Hamid, Akmal	1	10G	NEAT	NEAT

Veritech Control/Receipt Number: 12783

Description: Pentachloroethane

ApprovedBy: akmal
ApproveDate: 09/24/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service Inc	N-12829-1G	8728100	09/24/19	12/31/23	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 12842

Description: 4,4'-DDT

ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	31041-100MG	BCBW0671	10/18/19	11/30/23	Hamid, Akmal	3	100M	NEAT	NEAT

Veritech Control/Receipt Number: 12843

Description: 1,2,4,5-Tetrachlorobenzene

ApprovedBy: akmal
ApproveDate: 03/04/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	131857-5G	MKCG5992	10/17/19	07/23/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12844

Description: Caprolactam

ApprovedBy: akmal
ApproveDate: 03/04/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	C2204-5G	MKCG1442	10/17/19	07/23/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 13086

Description: 2-Fluorobiphenyl

ApprovedBy: akmal
ApproveDate: 03/03/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	102741-10G	MKCK0527	03/03/20	08/31/30	Hamid, Akmal	1	10G	NEAT	NEAT

Veritech Control/Receipt Number: 13106

Description: 4,4' -DDE

ApprovedBy: akmal
ApproveDate: 03/10/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	RPN-10875-1G	9710700	03/10/20	02/28/25	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 13494

Description: Biphenyl

ApprovedBy: akmal
ApproveDate: 09/11/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	35800-1G	BCBZ9522	09/11/20	12/31/23	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 13496

Description: Octadecane

ApprovedBy: akmal
ApproveDate: 09/11/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	O652-25G	MKCG6046	09/11/20	09/11/30	Hamid, Akmal	1	25G	NEAT	NEAT

Veritech Control/Receipt Number: 13821

Description: 1,4 Dioxane

ApprovedBy: akmal
ApproveDate: 03/22/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-10220-1G	11271700	03/19/21	08/30/23	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 13893

Description: Naphthalene-d8

ApprovedBy: akmal
ApproveDate: 04/28/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL	DLM-365-0	PR-28784/060817NP	04/23/21	06/14/27	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 13894

Description: Phenanthrene-d10

ApprovedBy: akmal
ApproveDate: 04/28/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL	DLM-371-0	PR-29119	04/23/21	11/10/27	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 13895

Description: Chrysene-d12

ApprovedBy: akmal
ApproveDate: 04/28/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL	DLM-261-0	PR-29322	04/23/21	08/01/28	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 13896

Description: Perylene-d12

ApprovedBy: akmal
ApproveDate: 02/14/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL	DLM-366-0	PR-31716	04/23/21	05/18/30	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 13897

Description: Acenaphthene-d10

ApprovedBy: akmal
ApproveDate: 04/28/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL	DLM-108-0	PR-30913	04/23/21	08/16/29	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 13898

Description: 1,4-Dioxane-d8

ApprovedBy: akmal
ApproveDate: 05/03/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
CIL	DLM-28-0	1-21312	04/23/21	11/15/23	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 14140

Description: EPA TCL Hazardous subs. Mix

ApprovedBy: akmal
ApproveDate: 08/16/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	47990-U	LRAC9004	08/16/21	02/28/24	Hamid, Akmal	1	1ML	2000	PPM

Veritech Control/Receipt Number: 14141

Description: p-Terphenyl-d14

ApprovedBy: akmal
ApproveDate: 08/16/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	364630-500MG	MBBD0055	08/16/21	08/16/30	Hamid, Akmal	5	500M	NEAT	NEAT

Veritech Control/Receipt Number: 14182

Description: Coumarin

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-11508	12354100	09/14/21	09/30/29	Hamid, Akmal	2	IG	NEAT	NEAT

Veritech Control/Receipt Number: 14183

Description: n-Decane

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	n-12526-1G	12277000	09/14/21	09/30/25	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14187

Description: 4,4'-DDD

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-10874-250MG	12359100	09/14/21	05/31/24	Hamid, Akmal	4	250M	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14204

Description: 1- Methylnaphthalene

ApprovedBy: Akmal
ApproveDate: 09/28/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	45795-250MG	BCCC3346	09/28/21	01/31/25	Hamid, Akmal	5	250M	NEAT	NEAT

Veritech Control/Receipt Number: 14222

Description: Atrazine

ApprovedBy: akmal
ApproveDate: 10/06/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	45330	BCBZ3835	09/30/21	08/31/23	Hamid, Akmal	2	250M	NEAT	NEAT

Veritech Control/Receipt Number: 14446

Description: Polynuclear Aromatic Hydrocarbons Mix.

ApprovedBy: akmal
ApproveDate: 02/11/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	CRM48905	LRAD0869	02/07/22	11/30/24	Hamid, Akmal	1	1ML	2000	PPM

Veritech Control/Receipt Number: 14569

Description: MEGAMIX

ApprovedBy: akmal
ApproveDate: 05/06/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
RESTEK	31850	A0182362	05/02/22	09/30/23	Hamid, Akmal	2	1ML	1000	PPM

Veritech Control/Receipt Number: 14570

Description: BENZOIC ACID

ApprovedBy: akmal
ApproveDate: 05/06/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
RESTEK	31879	A0176303	05/02/22	09/30/25	Hamid, Akmal	1	ML	2000	PPM

Veritech Control/Receipt Number: 14598

Description: EPA TCL Benzidines Mix

ApprovedBy: akmal
ApproveDate: 05/23/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Millipore Sigma	48906	LRAD1455	05/20/22	01/31/25	Hamid, Akmal	1	1ML	2000	PPM

Veritech Control/Receipt Number: 14703

Description: acetone

ApprovedBy: akmal
ApproveDate: 07/07/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9254-03	22D1162003	06/30/22	03/19/25	Lopez, Jose	48	4L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14759

Description: Phenolics Mix

ApprovedBy: akmal
ApproveDate: 07/28/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Spex Certiprep	CLPS-A	AA191210005	07/28/22	07/25/25	Hamid, Akmal	2	1ML	2000	PPM

Veritech Control/Receipt Number: 14765

Description: dichloromethane

ApprovedBy: akmal
ApproveDate: 08/16/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco/EMD	DX0831	62161	08/02/22	08/01/27	Lopez, Jose	100	4L	neat	neat

Veritech Control/Receipt Number: 14800

Description: ACETONE

ApprovedBy: akmal
ApproveDate: 08/31/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
JT.Baker	9254-03	22E1562001	08/30/22	05/02/25	Lopez, Jose	16	4L	neat	neat

Veritech Control/Receipt Number: 14802

Description: Dichloromethane

ApprovedBy: akmal
ApproveDate: 09/09/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco/EMD	DX0831-1	62231	08/31/22	08/30/27	Lopez, Jose	100	4L	neat	neat

Veritech Control/Receipt Number: 14864

Description: Methylene Chloride Optima-4L

ApprovedBy: akmal
ApproveDate: 09/29/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Fisher Chemical	D151-4	223493	09/28/22	08/31/27	Hamid, Akmal	4	4L	NEAT	NEAT

Veritech Control/Receipt Number: 14978

Description: 2,3,7,8-Tetrachlorodibenzo-p-dioxin

ApprovedBy: akmal
ApproveDate: 12/09/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
AccuStandard	D-404S	222041639	12/09/22	05/03/32	Hamid, Akmal	1	1ML	50	PPM

Veritech Control/Receipt Number: 15035

Description: Dichloromethane

ApprovedBy: akmal
ApproveDate: 01/20/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
supelco/emd	DX0831	62245	01/17/23	01/16/28	Lopez, Jose	112	4L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15169

Description
EPA TCL BASE-NEUTRALS Mix

ApprovedBy: akmal
ApproveDate: 03/23/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SIGMA ALDRICH	47991-U	LRAD4201	03/23/23	02/28/26	Hamid, Akmal	2	1ML	2000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 9149

Description: Diphenyl Ether

ApprovedBy: akmal
ApproveDate: 12/15/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	240834-5g	MKBH5698V	12/12/14	12/31/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 9150

Description: Benzaldehyde

ApprovedBy: akmal
ApproveDate: 12/15/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	B1334-5g	MKBP5021V	12/12/14	12/31/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 9435

Description: 1,4-Dimethylnaphthalene

ApprovedBy: akmal
ApproveDate: 04/24/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	D170305-5G	STBD6188V	04/24/15	04/24/25	Hamid, Akmal	5	5G	95	%

Veritech Control/Receipt Number: 11341

Description: Acetophenone

ApprovedBy: akmal
ApproveDate: 12/26/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	42163-1ML-F	BCBV0864	12/20/17	12/20/25	Hamid, Akmal	1	1ML	NEAT	NEAT

Veritech Control/Receipt Number: 12019

Description: 2,4,6-Tribromophenol

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma- Aldrich	137715-5G	S55013V	09/28/18	07/08/29	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12021

Description: Nitrobenzene-d5

ApprovedBy: akmal
ApproveDate: 10/01/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma- Aldrich	151955-5G	MBBC0000V	10/01/18	07/08/29	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12713

Description: Phenol-2,3,4,5,6-d5

ApprovedBy: akmal
ApproveDate: 08/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	425370-5G	MBBC4769	08/08/19	05/21/24	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 12716

Description
2-Fluorophenol

ApprovedBy: akmal
ApproveDate: 08/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	F12804-10G	STBH4989	08/08/19	05/21/28	Hamid, Akmal	1	10G	NEAT	NEAT

Veritech Control/Receipt Number: 12769

Description
Pyridine

ApprovedBy: janee
ApproveDate: 09/20/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Fisher	P368-1	190224	09/20/19	09/19/24	Wonge, Janee	1	1 L	neat	neat

Veritech Control/Receipt Number: 12783

Description
Pentachloroethane

ApprovedBy: akmal
ApproveDate: 09/24/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service Inc	N-12829-1G	8728100	09/24/19	12/31/23	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 12842

Description
4,4'-DDT

ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	31041-100MG	BCBW0671	10/18/19	11/30/23	Hamid, Akmal	3	100M	NEAT	NEAT

Veritech Control/Receipt Number: 12843

Description
1,2,4,5-Tetrachlorobenzene

ApprovedBy: akmal
ApproveDate: 03/04/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	131857-5G	MKCG5992	10/17/19	07/23/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 12844

Description
Caprolactam

ApprovedBy: akmal
ApproveDate: 03/04/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	C2204-5G	MKCG1442	10/17/19	07/23/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 13086

Description
2-Fluorobiphenyl

ApprovedBy: akmal
ApproveDate: 03/03/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Aldrich	102741-10G	MKCK0527	03/03/20	08/31/30	Hamid, Akmal	1	10G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 13106

Description: 4,4' -DDE

ApprovedBy: akmal
ApproveDate: 03/10/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	RPN-10875-1G	9710700	03/10/20	02/28/25	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 13117

Description: Methylene Chloride optima

ApprovedBy: akmal
ApproveDate: 04/01/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Fisher	D1514	197501	03/13/20	01/31/25	Lopez, Jose	4	4L	neat	neat

Veritech Control/Receipt Number: 13494

Description: Biphenyl

ApprovedBy: akmal
ApproveDate: 09/11/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	35800-1G	BCBZ9522	09/11/20	12/31/23	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 13496

Description: Octadecane

ApprovedBy: akmal
ApproveDate: 09/11/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	O652-25G	MKCG6046	09/11/20	09/11/30	Hamid, Akmal	1	25G	NEAT	NEAT

Veritech Control/Receipt Number: 13602

Description: DFTPP STD.

ApprovedBy: akmal
ApproveDate: 11/13/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	442543	LRAC7179	11/12/20	07/23/23	Hamid, Akmal	1	100M	NEAT	NEAT

Veritech Control/Receipt Number: 13659

Description: PYRIDINE

ApprovedBy: jessica
ApproveDate: 12/10/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Fisher	P368-1	203790	12/10/20	12/09/30	Patel, Jessica	1	1 L	NEAT	NEAT

Veritech Control/Receipt Number: 13821

Description: 1,4 Dioxane

ApprovedBy: akmal
ApproveDate: 03/22/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-10220-1G	11271700	03/19/21	08/30/23	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14141

Description: p-Terphenyl-d14

ApprovedBy: akmal
ApproveDate: 08/16/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	364630-500MG	MBBD0055	08/16/21	08/16/30	Hamid, Akmal	5	500M	NEAT	NEAT

Veritech Control/Receipt Number: 14182

Description: Coumarin

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-11508	12354100	09/14/21	09/30/29	Hamid, Akmal	2	IG	NEAT	NEAT

Veritech Control/Receipt Number: 14183

Description: n-Decane

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	n-12526-1G	12277000	09/14/21	09/30/25	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14184

Description: Carbazole

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-11403-1G	12358900	09/14/21	10/31/25	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14187

Description: 4,4'-DDD

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem Service	N-10874-250MG	12359100	09/14/21	05/31/24	Hamid, Akmal	4	250M	NEAT	NEAT

Veritech Control/Receipt Number: 14204

Description: 1- Methylnaphthalene

ApprovedBy: Akmal
ApproveDate: 09/28/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	45795-250MG	BCCC3346	09/28/21	01/31/25	Hamid, Akmal	5	250M	NEAT	NEAT

Veritech Control/Receipt Number: 14219

Description: 4,6-Dinitro-o-Cresol

ApprovedBy: akmal
ApproveDate: 10/06/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
AccuStandard	AS-E0058	218121434-01	10/05/21	10/04/24	Hamid, Akmal	1	1ML	5000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14222

Description: Atrazine

ApprovedBy: akmal
ApproveDate: 10/06/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	45330	BCBZ3835	09/30/21	08/31/23	Hamid, Akmal	2	250M	NEAT	NEAT

Veritech Control/Receipt Number: 14223

Description: Pentachlorophenol

ApprovedBy: akmal
ApproveDate: 10/06/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	40062	LRAD0592	10/06/21	09/30/24	Hamid, Akmal	1	1ML	5000	PPM

Veritech Control/Receipt Number: 14224

Description: N-Nitrosodimethylamine

ApprovedBy: akmal
ApproveDate: 10/06/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	CRM40059	LRAC9913	10/06/21	07/31/24	Hamid, Akmal	1	1ML	5000	PPM

Veritech Control/Receipt Number: 14569

Description: MEGAMIX

ApprovedBy: akmal
ApproveDate: 05/06/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
RESTEK	31850	A0182362	05/02/22	09/30/23	Hamid, Akmal	2	1ML	1000	PPM

Veritech Control/Receipt Number: 14570

Description: BENZOIC ACID

ApprovedBy: akmal
ApproveDate: 05/06/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
RESTEK	31879	A0176303	05/02/22	09/30/25	Hamid, Akmal	1	ML	2000	PPM

Veritech Control/Receipt Number: 14598

Description: EPA TCL Benzidines Mix

ApprovedBy: akmal
ApproveDate: 05/23/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Millipore Sigma	48906	LRAD1455	05/20/22	01/31/25	Hamid, Akmal	1	1ML	2000	PPM

Veritech Control/Receipt Number: 14703

Description: acetone

ApprovedBy: akmal
ApproveDate: 07/07/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9254-03	22D1162003	06/30/22	03/19/25	Lopez, Jose	48	4L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14759

Description: Phenolics Mix

ApprovedBy: akmal
ApproveDate: 07/28/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Spex Certiprep	CLPS-A	AA191210005	07/28/22	07/25/25	Hamid, Akmal	2	1ML	2000	PPM

Veritech Control/Receipt Number: 14765

Description: dichloromethane

ApprovedBy: akmal
ApproveDate: 08/16/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco/EMD	DX0831	62161	08/02/22	08/01/27	Lopez, Jose	100	4L	neat	neat

Veritech Control/Receipt Number: 14800

Description: ACETONE

ApprovedBy: akmal
ApproveDate: 08/31/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
JT.Baker	9254-03	22E1562001	08/30/22	05/02/25	Lopez, Jose	16	4L	neat	neat

Veritech Control/Receipt Number: 14801

Description: acetone

ApprovedBy: akmal
ApproveDate: 08/31/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9254-03	22D1162003	08/30/22	03/19/25	Lopez, Jose	32	4L	neat	neat

Veritech Control/Receipt Number: 14802

Description: Dichloromethane

ApprovedBy: akmal
ApproveDate: 09/09/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco/EMD	DX0831-1	62231	08/31/22	08/30/27	Lopez, Jose	100	4L	neat	neat

Veritech Control/Receipt Number: 14810

Description: Benzidine solution

ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	40005	LRAC8551	09/15/22	12/31/23	Hamid, Akmal	1	1ML	5000	PPM

Veritech Control/Receipt Number: 14811

Description: 2,4-Dinitrolphenol

ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	40057	LRAD1708	09/15/22	02/28/25	Hamid, Akmal	1	1ML	5000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14821

Description: Biphenyl

ApprovedBy: akmal
ApproveDate: 09/16/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	35800-1G	BCCF1061	09/16/22	10/31/25	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 14831

Description: Pentachloroethane

ApprovedBy: akmal
ApproveDate: 09/19/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Chem-Service	N-12829-250MG	12860800	09/19/22	12/31/23	Hamid, Akmal	2	250M	NEAT	NEAT

Veritech Control/Receipt Number: 14864

Description: Methylene Chloride Optima-4L

ApprovedBy: akmal
ApproveDate: 09/29/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Fisher Chemical	D151-4	223493	09/28/22	08/31/27	Hamid, Akmal	4	4L	NEAT	NEAT

Veritech Control/Receipt Number: 14977

Description: Hexachlorocyclopentadiene

ApprovedBy: akmal
ApproveDate: 12/09/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
AccuStandard	AS-E0051	221121349	12/09/22	01/23/24	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 15241

Description: Sodium Hydroxide , Pallets , ACS

ApprovedBy: akmal
ApproveDate: 04/28/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
LAB SALES	LS - 2755095	220713 - 2A	04/27/23	04/26/28	Cajuste, Pierre	2	12 Kg	Neat	Neat

Veritech Control/Receipt Number: 15268

Description: DDT - Endrin Mix

ApprovedBy: akmal
ApproveDate: 05/11/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma Aldrich	48282	LRAD4476	05/10/23	03/31/26	Hamid, Akmal	3	1ML	500	PPM

Veritech Control/Receipt Number: 15275

Description: acetone

ApprovedBy: akmal
ApproveDate: 05/16/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Tedia	AA1111	22070110	05/15/23	07/23/24	Lopez, Jose	48	4L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15340

Description
DI H2O

ApprovedBy: jessica
ApproveDate: 06/25/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
EVOQUA	1	1	06/01/23	06/01/24	Cousineau, Paul	1			

Veritech Control/Receipt Number: 15342

Description
sodium sulfate

ApprovedBy: akmal
ApproveDate: 06/07/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Allan Corp.	6399	208404	06/05/23	06/04/28	Lopez, Jose	6	100L	neat	neat

Veritech Control/Receipt Number: 15356

Description
Acetone

ApprovedBy: akmal
ApproveDate: 06/12/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
TEDIA	AA1111	22070110	06/09/23	07/23/24	Cajuste, Pierre	80	4 L	Neat	Neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15124

Description
Base/Neutral Composite

ApprovedBy: jean
ApproveDate: 02/23/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ACCUSTANDAR	CLP-HC-BN-PAK	222041298-01	02/23/23	02/20/24	Revolus, Jean	20	1ml	2000	PPM

Veritech Control/Receipt Number: 15125

Description
Toxic Substances Mix #2

ApprovedBy: jean
ApproveDate: 02/23/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ACCUSTANDAR	Z-014E-PAK	222041218	02/23/23	05/13/24	Revolus, Jean	4	1ml	2000	PPM

Veritech Control/Receipt Number: 15283

Description
Acid Composite Mixture

ApprovedBy: jean
ApproveDate: 05/17/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
ACCUSTANDAR	CLP-HC-A-R-PAK	222111297	05/17/23	11/30/25	Revolus, Jean	20	1ml	2000	PPM

Veritech Control/Receipt Number: 15357

Description
Dichloromethane

ApprovedBy: akmal
ApproveDate: 06/13/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Supelco/EMD	DX0831	63083	06/12/23	06/11/28	Lopez, Jose	100	4L	neat	neat

GC PCB Data

GC PCB Data
QC Summary

FORM2

Surrogate Recovery

Method: EPA 8082A

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column2 S2 Recov	Column1 S3 Recov	Column2 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
2G178394.D	WMB109472	A	06/30/23 12:17	1		104	103	87	84		
2G178397.D	AD38798-002	A	06/30/23 12:53	1		104	102	103	100		
2G178395.D	AD38798-004(MS:AD38	A	06/30/23 12:29	1		97	99	104	100		
2G178396.D	AD38798-005(MSD:AD3	A	06/30/23 12:41	1		99	99	101	97		
2G178398.D	AD38798-006	A	06/30/23 13:04	1		104	102	101	97		
2G178399.D	AD38798-007	A	06/30/23 13:16	1		103	101	84	81		
2G178393.D	WMB109472(MS)	A	06/30/23 12:06	1		98	98	85	82		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8082A

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=TCMX-Surrogate	100	11-128
S2=TCMX-Surrogate	100	11-128
S3=DCB-Surrogate	100	11-144
S4=DCB-Surrogate	100	11-144

Form3
Recovery Data Laboratory Limits
QC Batch: WMB109472

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2G178393.D	WMB109472(MS)	6/30/2023 12:06:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous Units: ug/L QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	2	1401.528	0	1000	140	22	155
Aroclor-1260 -Total	2	1474.365	0	1000	147	34	147

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form

Form3
Recovery Data Laboratory Limits
QC Batch: WMB109472

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2G178395.D	AD38798-004(MS:AD38798-00	6/30/2023 12:29:00 PM
Non Spike(If applicable):	2G178397.D	AD38798-002	6/30/2023 12:53:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	2	1450.87	0	1000	145	22	155
Aroclor-1260 -Total	2	1568.722	0	1000	157 *	34	147

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2G178396.D	AD38798-005(MSD:AD38798-0	6/30/2023 12:41:00 PM
Non Spike(If applicable):	2G178397.D	AD38798-002	6/30/2023 12:53:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	2	1540.332	0	1000	154	22	155
Aroclor-1260 -Total	2	1610.72	0	1000	161 *	34	147

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form

Form3
RPD Data Laboratory Limits
QC Batch: WMB109472

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2G178396.D	AD38798-005(MSD:AD38798-0	6/30/2023 12:41:00 PM
Duplicate(If applicable):	2G178395.D	AD38798-004(MS:AD38798-00	6/30/2023 12:29:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Aroclor-1016 -Total	2	1540.332	1450.87	6	71
Aroclor-1260 -Total	2	1610.72	1568.722	2.6	49

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: WMB109472
Blank Data File: 2G178394.D
Matrix: Aqueous

Blank Analysis Date: 06/30/23 12:17
Blank Extraction Date: 06/29/23
(If Applicable)
Method: EPA 8082A

Sample Number	Data File	Analysis Date
AD38798-002	2G178397.D	06/30/23 12:53
AD38798-004(MS:	2G178395.D	06/30/23 12:29
AD38798-005(MSD	2G178396.D	06/30/23 12:41
AD38798-006	2G178398.D	06/30/23 13:04
AD38798-007	2G178399.D	06/30/23 13:16
WMB109472(MS)	2G178393.D	06/30/23 12:06

Form 5

Method: EPA 8082A

Instrument: GC_2 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
2G176266.D	CAL 3268@500PPB	05/17/23 11:42	Soil	2G17627	8.5912	0	8.9269	0.0134
2G176267.D	CAL 1242@500PPB	05/17/23 11:54	Soil	2G17627	8.5914	0.0023	8.9246	0.0123
2G176268.D	CAL 1248@500PPB	05/17/23 12:05	Soil	2G17627	8.5912	0	8.9255	0.0022
2G176269.D	CAL 2154@500PPB	05/17/23 12:17	Soil	2G17627	8.5914	0.0023	8.9259	0.0022
2G176270.D	CAL 1262@500PPB	05/17/23 12:29	Soil	2G17627	8.5919	0.0081	8.9274	0.019
2G176271.D	CAL 1660@50PPB	05/17/23 12:41	Soil	2G17627	8.5912	0	8.9257	0
2G176272.D	1660@50PPB	05/17/23 12:52	Soil	2G17627	8.5903	0.0105	8.9258	0.0011
2G176273.D	CAL 1660@200PPB	05/17/23 13:04	Soil	2G17627	8.5897	0.0175	8.9247	0.0112
2G176274.D	CAL 1660@500PPB	05/17/23 13:16	Soil	2G17627	8.5913	0.0012	8.9267	0.0112
2G176275.D	CAL 1660@1000PPB	05/17/23 13:28	Soil	2G17627	8.5900	0.014	8.9251	0.0067
2G176276.D	CAL 1660@2000PPB	05/17/23 13:39	Soil	2G17627	8.5911	0.0012	8.9269	0.0134
2G176277.D	CAL 1660@4000PPB	05/17/23 13:51	Soil	2G17627	8.5904	0.0093	8.9258	0.0011
2G176278.D	PEST WS	05/17/23 14:42	Soil	2G17627	0.0000	200*	0.0000	200*
2G176279.D	TEST	05/17/23 14:54	Soil	2G17627	8.5957	0.0524	8.9283	0.0291
2G176280.D	TEST	05/17/23 15:06	Soil	2G17627	8.5934	0.0256	8.9275	0.0202
2G176281.D	ICV	05/17/23 16:57	Soil	2G17627	8.6081	0.1965	8.9322	0.0728

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8082A

Instrument: GC_2 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
2G178371.D	CAL 1660@1000PPB	06/30/23 07:17	Soil	2G17837	8.6008	0	8.9283	0
2G178372.D	SMB109470	06/30/23 07:36	Soil	2G17837	8.5980	0.0326	8.9289	0.0067
2G178373.D	SMB109470(MS)	06/30/23 07:47	Soil	2G17837	8.5706	0.3517	8.9055	0.2557
2G178374.D	AD38651-033(MS)	06/30/23 08:16	Soil	2G17837	8.6004	0.0046	8.9286	0.0034
2G178375.D	AD38651-033(MSD)	06/30/23 08:28	Soil	2G17837	8.5895	0.1315	8.9259	0.0269
2G178376.D	AD38703-022	06/30/23 08:40	Soil	2G17837	8.5867	0.1641	8.9248	0.0392
2G178377.D	AD38703-024	06/30/23 08:52	Soil	2G17837	8.5862	0.1699	8.9247	0.0403
2G178378.D	AD38651-033	06/30/23 09:03	Soil	2G17837	8.5865	0.1664	8.9239	0.0493
2G178379.D	AD38659-025	06/30/23 09:15	Soil	2G17837	8.5841	0.1944	8.9229	0.0605
2G178380.D	AD38651-027	06/30/23 09:27	Soil	2G17837	8.5847	0.1874	8.9228	0.0616
2G178381.D	AD38651-029	06/30/23 09:39	Soil	2G17837	8.5854	0.1792	8.9237	0.0515
2G178382.D	AD38651-031	06/30/23 09:50	Soil	2G17837	8.5857	0.1757	8.9244	0.0437
2G178383.D	AD38787-003	06/30/23 10:02	Soil	2G17837	8.5861	0.1711	8.9245	0.0426
2G178384.D	AD38787-002	06/30/23 10:14	Soil	2G17837	8.5850	0.1839	8.9248	0.0392
2G178385.D	AD38787-001	06/30/23 10:26	Soil	2G17837	8.5859	0.1734	8.9249	0.0381
2G178386.D	AD38787-001(MSD)	06/30/23 10:37	Soil	2G17837	8.5869	0.1617	8.9243	0.0448
2G178387.D	AD38787-001(MS)	06/30/23 10:49	Soil	2G17837	8.5870	0.1606	8.9246	0.0415
2G178388.D	AD38703-026	06/30/23 11:06	Soil	2G17837	8.5963	0.0523	8.9297	0.0157
2G178389.D	AD38651-035	06/30/23 11:18	Soil	2G17837	8.5873	0.1571	8.9248	0.0392
2G178390.D	AD38651-037	06/30/23 11:30	Soil	2G17837	8.5886	0.1419	8.9243	0.0448
2G178391.D	AD38703-001	06/30/23 11:42	Soil	2G17837	8.5847	0.1874	8.9230	0.0594
2G178392.D	CAL 1660@1000PPB	06/30/23 11:53	Soil	2G17837	8.5855	0.178	8.9230	0.0594
2G178393.D	WMB109472(MS)	06/30/23 12:06	Aqueous	2G17839	8.5876	0.0245	8.9241	0.0123
2G178394.D	WMB109472	06/30/23 12:17	Aqueous	2G17839	8.5862	0.0082	8.9230	0
2G178395.D	AD38798-004(MS:AD38	06/30/23 12:29	Aqueous	2G17839	8.5874	0.0221	8.9245	0.0168
2G178396.D	AD38798-005(MSD:AD3	06/30/23 12:41	Aqueous	2G17839	8.5867	0.014	8.9249	0.0213
2G178397.D	AD38798-002	06/30/23 12:53	Aqueous	2G17839	8.5851	0.0047	8.9245	0.0168
2G178398.D	AD38798-006	06/30/23 13:04	Aqueous	2G17839	8.5881	0.0303	8.9257	0.0303
2G178399.D	AD38798-007	06/30/23 13:16	Aqueous	2G17839	8.5857	0.0023	8.9241	0.0123
2G178400.D	AD38812-012	06/30/23 13:28	Aqueous	2G17839	8.5871	0.0186	8.9235	0.0056
2G178401.D	AD38881-001	06/30/23 13:40	Aqueous	2G17839	8.5865	0.0117	8.9240	0.0112
2G178402.D	AD38806-006	06/30/23 13:51	Aqueous	2G17839	8.5868	0.0151	8.9257	0.0303
2G178403.D	AD38790-001	06/30/23 14:03	Soil	2G17839	8.5863	0.0093	8.9260	0.0336
2G178404.D	AD38804-003	06/30/23 14:15	Soil	2G17839	8.5862	0.0082	8.9247	0.019
2G178405.D	AD38857-001	06/30/23 14:27	Soil	2G17839	8.5860	0.0058	8.9234	0.0045
2G178406.D	AD38857-006	06/30/23 14:38	Soil	2G17839	8.5861	0.007	8.9259	0.0325
2G178407.D	AD38759-009	06/30/23 14:50	Soil	2G17839	8.5879	0.028	8.9250	0.0224
2G178408.D	AD38703-009	06/30/23 15:02	Soil	2G17839	8.5869	0.0163	8.9251	0.0235
2G178409.D	AD38703-011	06/30/23 15:14	Soil	2G17839	8.5860	0.0058	8.9258	0.0314
2G178410.D	AD38790-002	06/30/23 15:25	Soil	2G17839	8.5869	0.0163	8.9257	0.0303
2G178411.D	PCB SPIKE TEST	06/30/23 15:41	Soil	2G17839	8.6542	0.797 *	0.0000	200 *
2G178412.D	AD38851-003(2X)	06/30/23 16:03	Soil	2G17839	8.6001	0.1699	8.9295	0.0728
2G178413.D	1000PPB	06/30/23 16:15	Soil	2G17839	8.5897	0.0489	8.9270	0.0448
2G178414.D	CAL 1660@1000PPB	06/30/23 17:34	Soil	2G17839	8.6035	0.2094	8.9307	0.0863
2G178415.D	AD38651-023	06/30/23 17:46	Soil	2G17841	8.5892	0.1664	8.9244	0.0706
2G178416.D	AD38651-025	06/30/23 17:58	Soil	2G17841	8.5867	0.1955	8.9233	0.0829
2G178417.D	CAL 1660@1000PPB	06/30/23 18:13	Soil	2G17841	8.5918	0.1361	8.9262	0.0504

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

GC PCB Data
Sample Data

Form1

ORGANICS PCB REPORT

Sample Number: AD38798-002
Client Id: MW-2_6.22.23
Data File: 2G178397.D
Analysis Date: 06/30/23 12:53
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 965ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.26	U	11097-69-1	Aroclor-1254	0.26	U
11104-28-2	Aroclor-1221	0.26	U	11096-82-5	Aroclor-1260	0.26	U
11141-16-5	Aroclor-1232	0.26	U	37324-23-5	Aroclor-1262	0.26	U
53469-21-9	Aroclor-1242	0.26	U	11100-14-4	Aroclor-1268	0.26	U
12672-29-6	Aroclor-1248	0.26	U	1336-36-3	Aroclor (Total)	0.26	U

Worksheet #: 700848

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-30-23\
Data File : 2G178397.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jun 2023 12:53
Operator : AH/PR/KM
Sample : AD38798-002
Misc : A,PCB
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 13:09:01 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
	Target Compounds						
1)	TCMX-Surrogate	3.208	3.171	876.2E6	1306.3E6	103.542	101.869m
45)	DCB-Surrogate	8.585	8.924	736.5E6	1062.3E6	103.082m	99.815

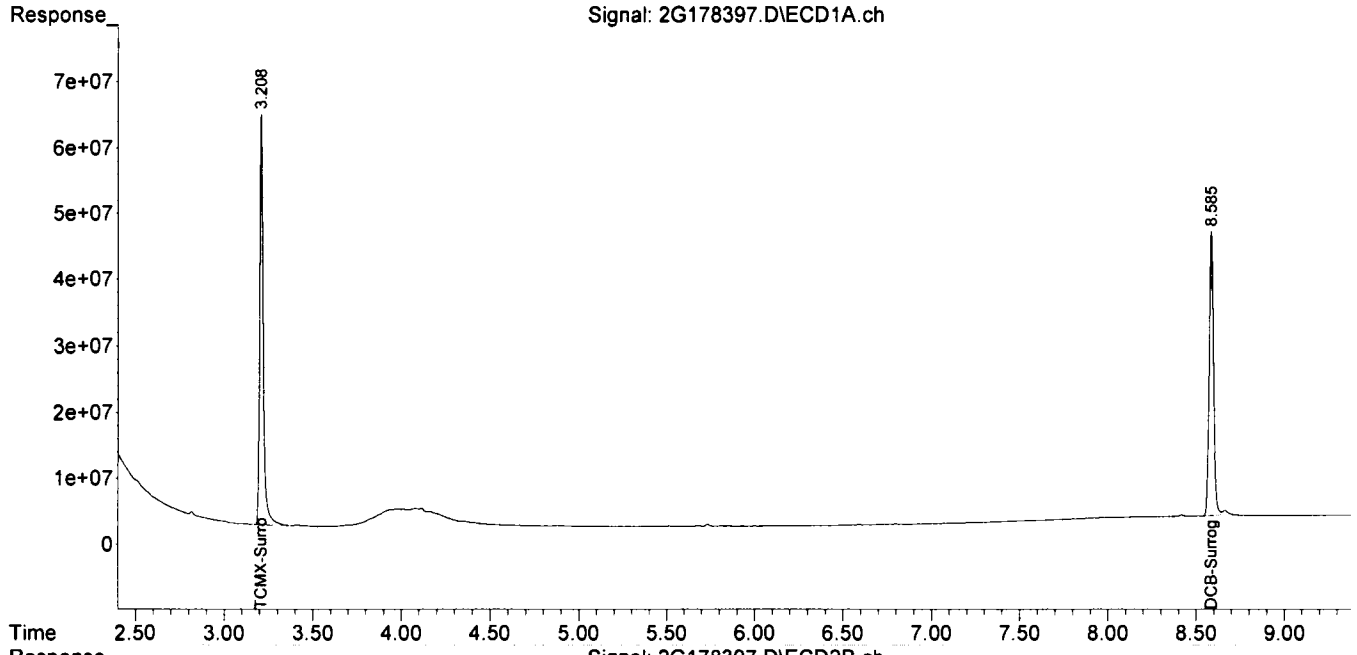
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

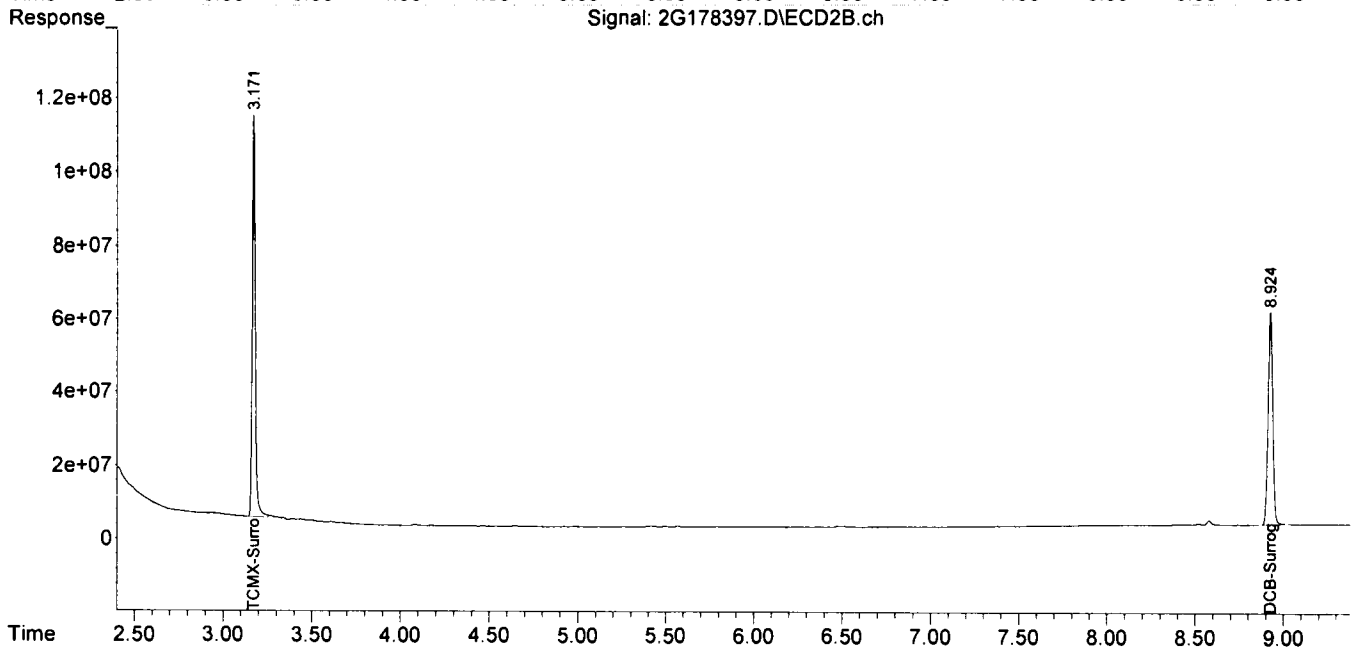
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-30-23\
Data File : 2G178397.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jun 2023 12:53
Operator : AH/PR/KM
Sample : AD38798-002
Misc : A,PCB
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 13:09:01 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Form1

ORGANICS PCB REPORT

Sample Number: AD38798-004(MS:AD38
Client Id: MW-2_6.22.23-MS
Data File: 2G178395.D
Analysis Date: 06/30/23 12:29
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 970ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	**(^)Aroclor-1016**	**0.26**	**7.5**	11097-69-1	Aroclor-1254	0.26	U
11104-28-2	Aroclor-1221	0.26	U	**11096-82-5**	**Aroclor-1260**	**0.26**	**8.4**
11141-16-5	Aroclor-1232	0.26	U	37324-23-5	Aroclor-1262	0.26	U
53469-21-9	Aroclor-1242	0.26	U	11100-14-4	Aroclor-1268	0.26	U
12672-29-6	Aroclor-1248	0.26	U	**1336-36-3**	**Aroclor (Total)**	**0.26**	**16**

Worksheet #: 700848

Total Target Concentration 8.4

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-30-23\
Data File : 2G178395.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jun 2023 12:29
Operator : AH/PR/KM
Sample : AD38798-004(MS:AD38798-002) (Sig #1); AD38798-004(MS) (Sig #2)
Misc : A,PCB
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 12:44:16 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.209	3.172	819.4E6	1272.1E6	96.832	99.201
2)Aroclor-1016 {1}	3.666	3.706	180.5E6	263.2E6	1402.923	1420.454
3)Aroclor-1016 {2}	3.989	4.072	426.0E6	661.8E6	1361.522m	1404.265
4)Aroclor-1016 {3}	4.405	4.409	900.6E6	954.8E6	1452.270m	1498.846
5)Aroclor-1016 {4}	4.615	4.559	251.2E6	480.6E6	1256.662m	1440.044
6)Aroclor-1016 {5}	4.689	4.689	183.4E6	645.3E6	1315.645m	1490.740
7)Aroclor-1260 {1}	6.036	6.138	591.0E6	987.9E6	1537.310m	1537.741
8)Aroclor-1260 {2}	6.257	6.211	723.6E6	1056.6E6	1613.886	1571.371
9)Aroclor-1260 {3}	6.675	7.055	308.2E6	717.9E6	1599.544	1558.682
10)Aroclor-1260 {4}	6.932	7.652	535.5E6	891.6E6	1670.289	1638.852
11)Aroclor-1260 {5}	7.553	8.111	867.2E6	496.0E6	1691.547	1536.972
45)DCB-Surrogate	8.587	8.925	739.6E6	1063.3E6	103.509	99.910

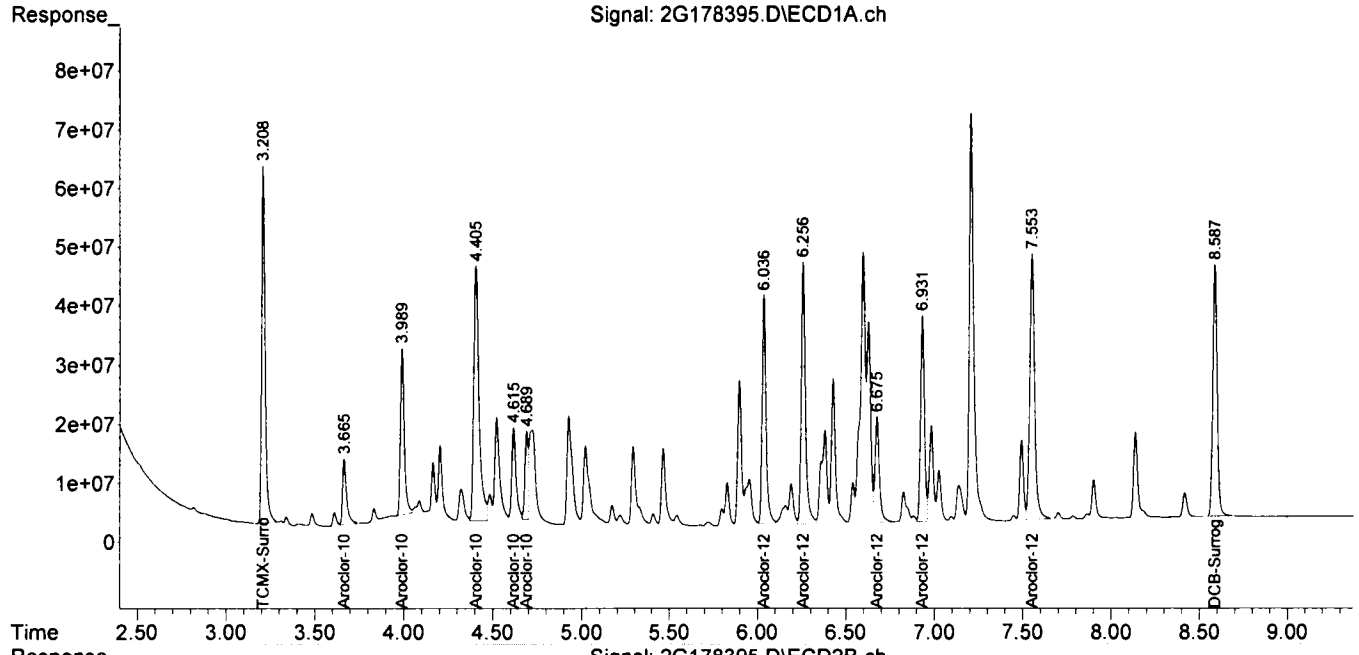
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

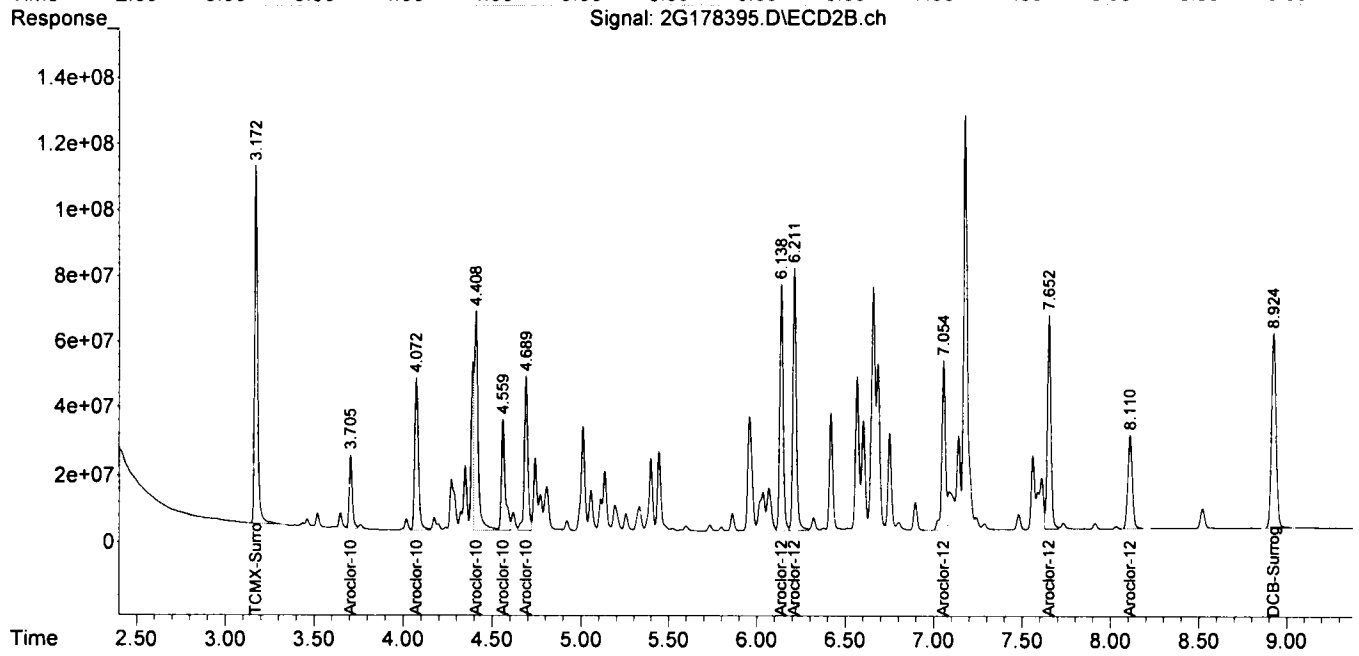
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-30-23\
Data File : 2G178395.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jun 2023 12:29
Operator : AH/PR/KM
Sample : AD38798-004(MS:AD38798-002) (Sig #1); AD38798-004(MS) (Sig #2)
Misc : A,PCB
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 12:44:16 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Form1

ORGANICS PCB REPORT

Sample Number: AD38798-005(MSD:AD
Client Id: MW-2_6.22.23-MSD
Data File: 2G178396.D
Analysis Date: 06/30/23 12:41
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 995ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	**(^)Aroclor-1016**	**0.25**	**7.7**	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	**11096-82-5**	**Aroclor-1260**	**0.25**	**8.5**
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	**1336-36-3**	**Aroclor (Total)**	**0.25**	**16**

Worksheet #: 700848

Total Target Concentration 8.5

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-30-23\
Data File : 2G178396.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jun 2023 12:41
Operator : AH/PR/KM
Sample : AD38798-005(MSD:AD38798-002) (Sig #1); AD38798-005(MSD) (Sig #2)
Misc : A,PCB
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 13:08:35 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.208	3.172	837.2E6	1268.4E6	98.937	98.914
2)Aroclor-1016 {1}	3.665	3.705	181.2E6	281.0E6	1407.734m	1516.320
3)Aroclor-1016 {2}	3.988	4.072	446.0E6	702.5E6	1425.464m	1490.635
4)Aroclor-1016 {3}	4.404	4.408	944.9E6	1001.9E6	1523.679m	1572.834
5)Aroclor-1016 {4}	4.615	4.559	269.1E6	511.2E6	1346.064m	1531.893
6)Aroclor-1016 {5}	4.689	4.689	191.3E6	688.2E6	1372.136m	1589.977
7)Aroclor-1260 {1}	6.036	6.138	635.1E6	1031.9E6	1651.921	1606.359
8)Aroclor-1260 {2}	6.256	6.212	752.7E6	1098.5E6	1678.740	1633.639
9)Aroclor-1260 {3}	6.675	7.054	320.9E6	748.2E6	1665.428	1624.424m
10)Aroclor-1260 {4}	6.931	7.651	551.0E6	904.5E6	1718.532	1662.595
11)Aroclor-1260 {5}	7.553	8.111	880.1E6	492.7E6	1716.738	1526.591
45)DCB-Surrogate	8.587	8.925	720.5E6	1034.4E6	100.843	97.195

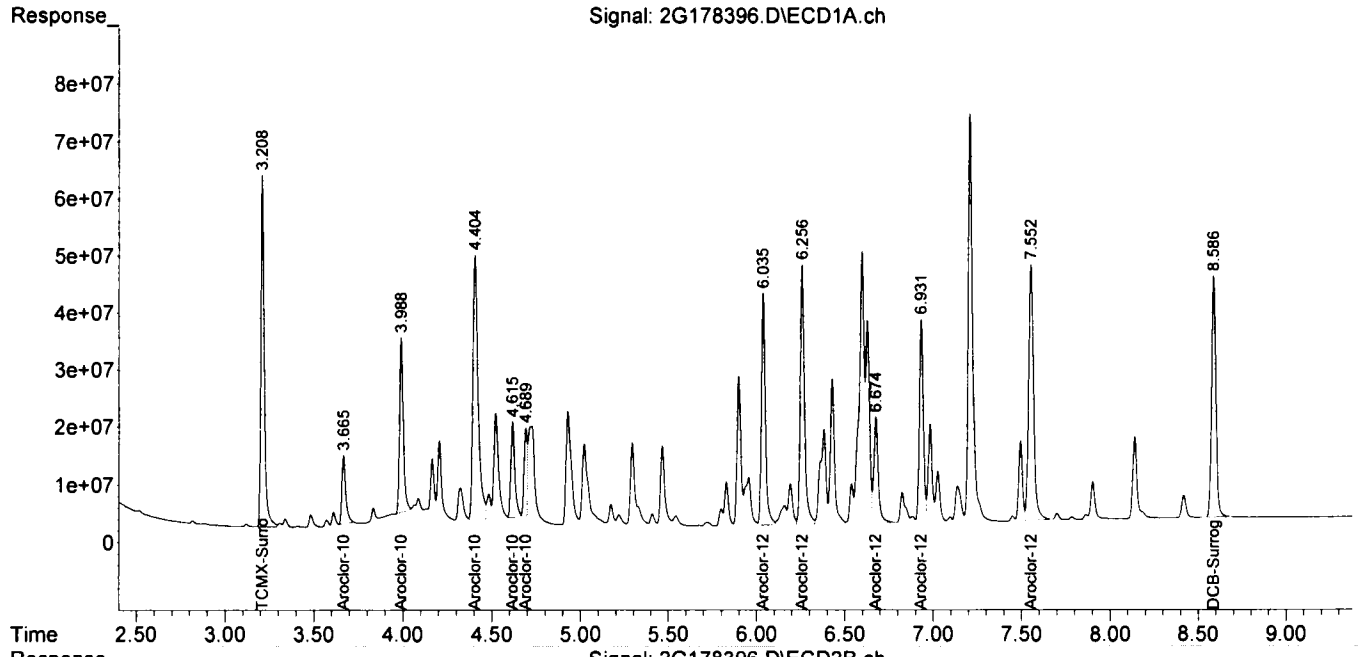
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

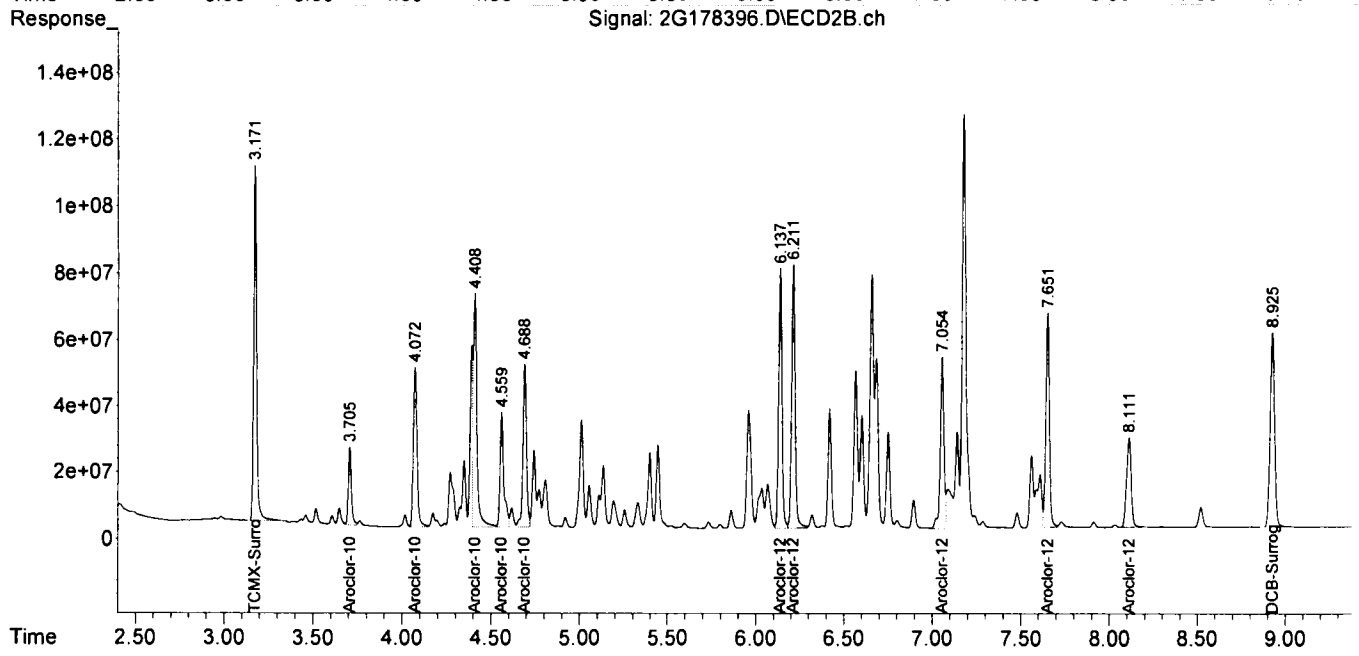
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-30-23\
Data File : 2G178396.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jun 2023 12:41
Operator : AH/PR/KM
Sample : AD38798-005(MSD:AD38798-002) (Sig #1); AD38798-005(MSD) (Sig #2)
Misc : A,PCB
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 13:08:35 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Form1

ORGANICS PCB REPORT

Sample Number: AD38798-006
Client Id: DUP-1
Data File: 2G178398.D
Analysis Date: 06/30/23 13:04
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 985ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 700848

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-30-23\
Data File : 2G178398.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jun 2023 13:04
Operator : AH/PR/KM
Sample : AD38798-006
Misc : A,PCB
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 13:28:38 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
	Target Compounds						
1)	TCMX-Surrogate	3.208	3.171	882.8E6	1312.2E6	104.328	102.327m
45)	DCB-Surrogate	8.588	8.926	724.3E6	1034.6E6	101.368	97.212

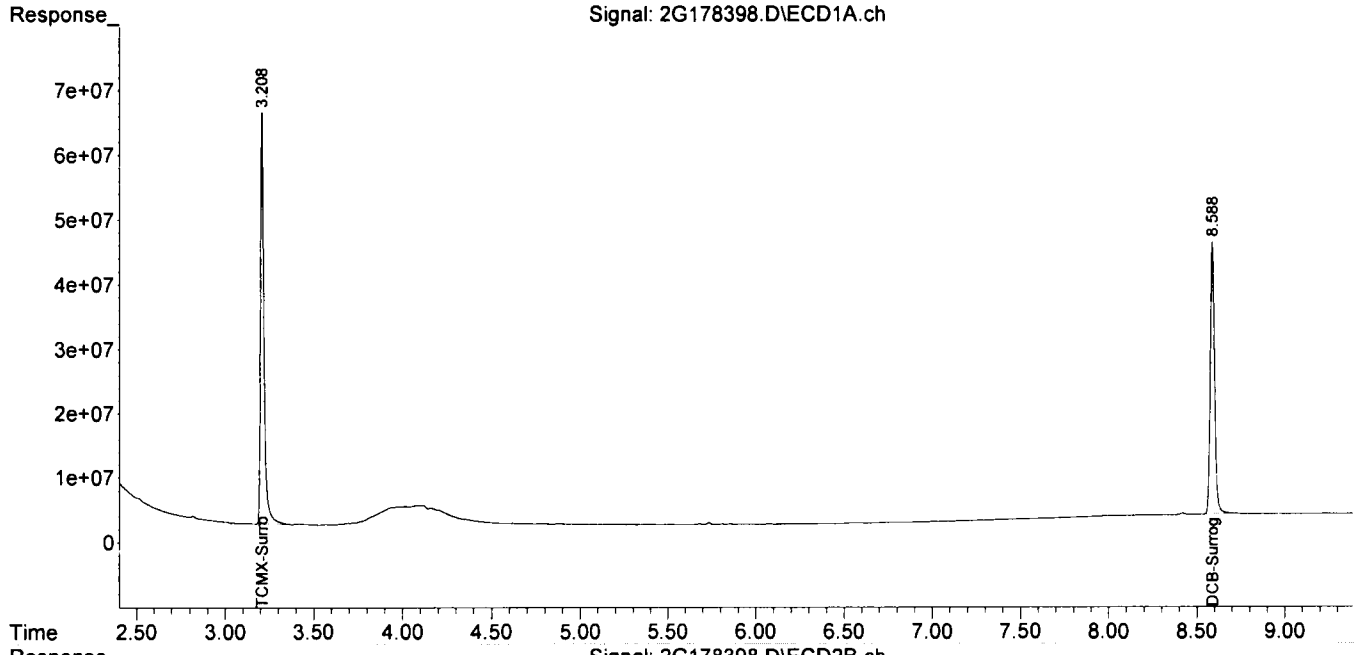
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

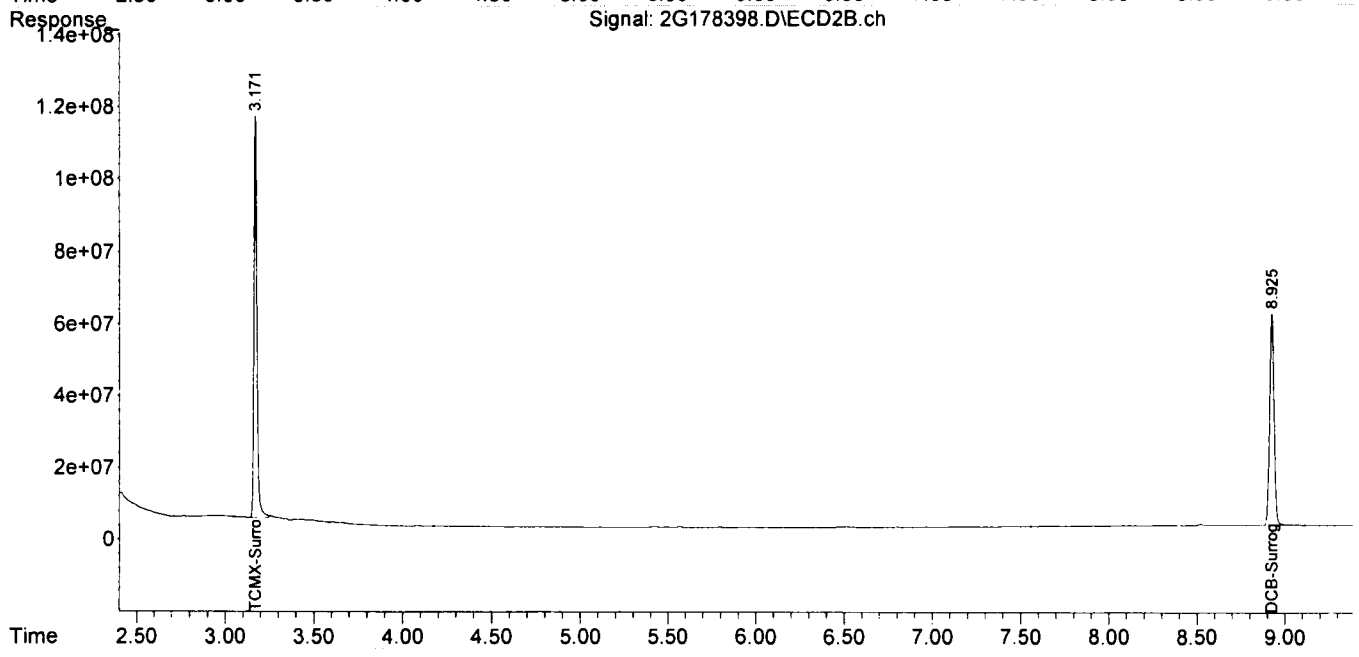
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-30-23\
Data File : 2G178398.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jun 2023 13:04
Operator : AH/PR/KM
Sample : AD38798-006
Misc : A,PCB
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 13:28:38 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Form1

ORGANICS PCB REPORT

Sample Number: AD38798-007
Client Id: Field Blank
Data File: 2G178399.D
Analysis Date: 06/30/23 13:16
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 965ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.26	U	11097-69-1	Aroclor-1254	0.26	U
11104-28-2	Aroclor-1221	0.26	U	11096-82-5	Aroclor-1260	0.26	U
11141-16-5	Aroclor-1232	0.26	U	37324-23-5	Aroclor-1262	0.26	U
53469-21-9	Aroclor-1242	0.26	U	11100-14-4	Aroclor-1268	0.26	U
12672-29-6	Aroclor-1248	0.26	U	1336-36-3	Aroclor (Total)	0.26	U

Worksheet #: 700848

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-30-23\
Data File : 2G178399.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jun 2023 13:16
Operator : AH/PR/KM
Sample : AD38798-007
Misc : A,PCB
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 13:29:01 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
	Target Compounds						
1)	TCMX-Surrogate	3.209	3.171	875.7E6	1301.5E6	103.483	101.492m
45)	DCB-Surrogate	8.586	8.924	601.7E6	858.2E6	84.219	80.641

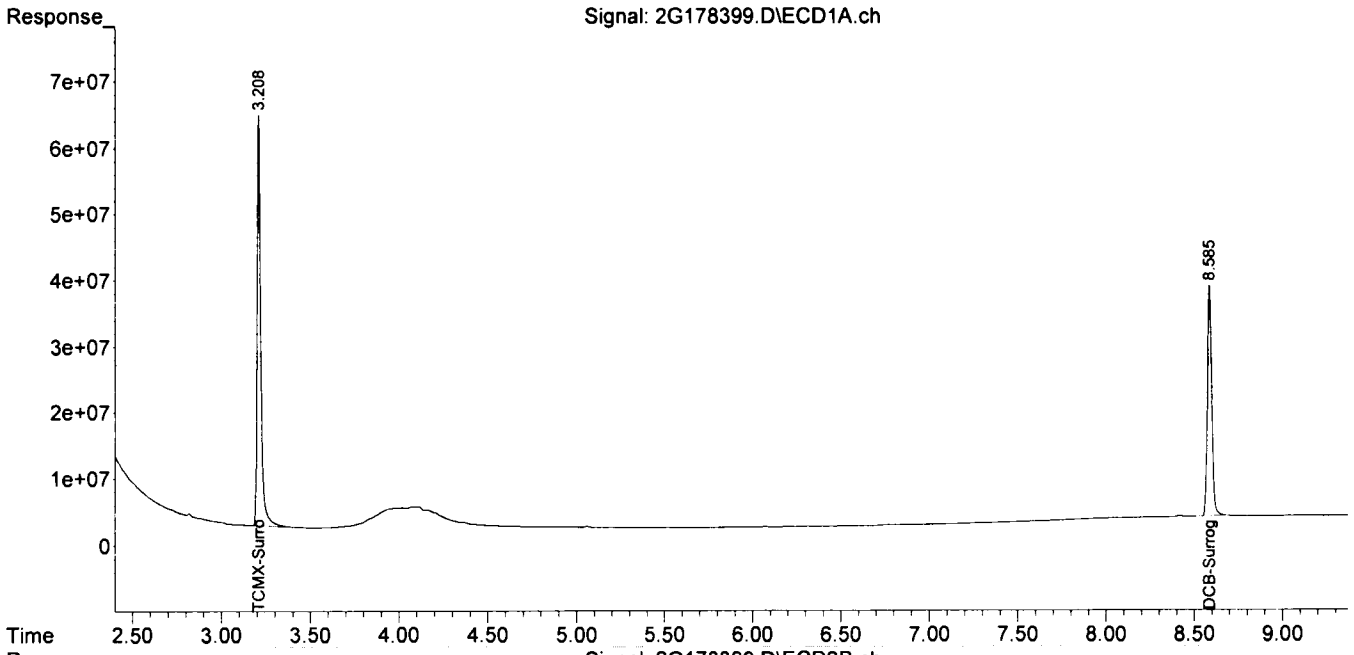
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

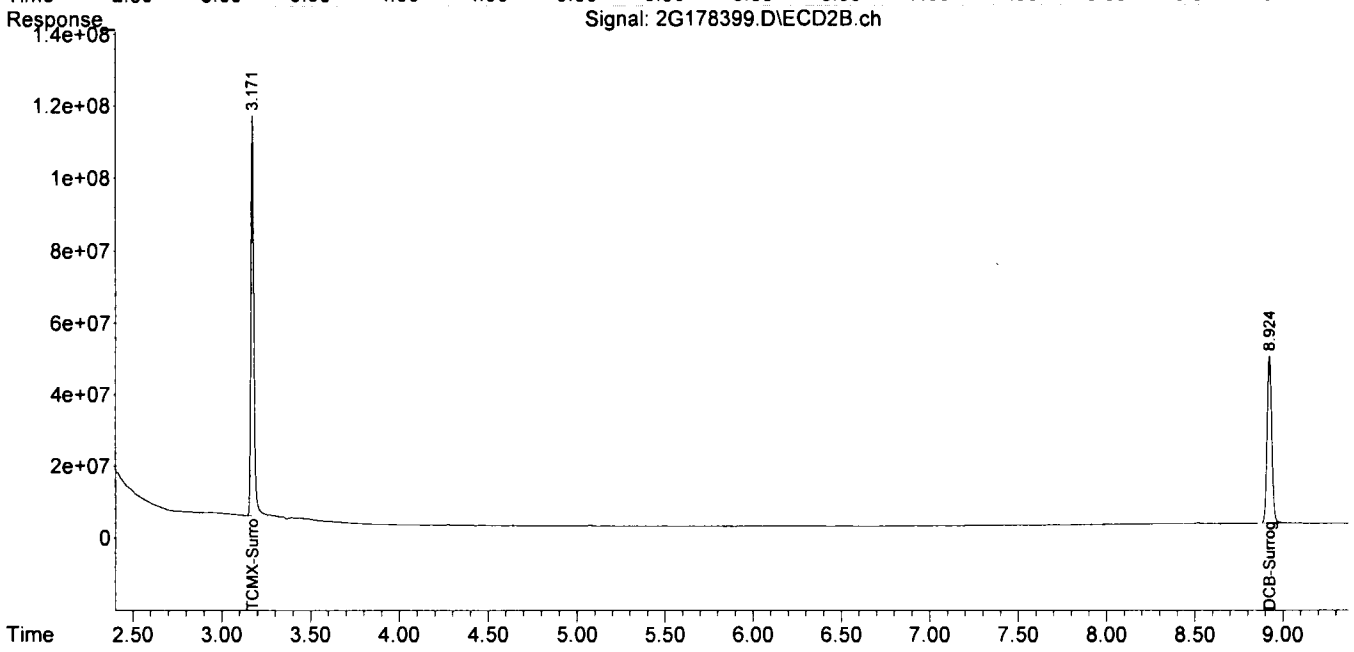
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-30-23\
Data File : 2G178399.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jun 2023 13:16
Operator : AH/PR/KM
Sample : AD38798-007
Misc : A,PCB
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 13:29:01 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





GC PCB Data
Standards Data

3062404 0469

Form 6

Initial Calibration

Method: EPA 8082A

Instrument: GC_2

Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	2G176271.D	CAL 1660@50PPB	05/17/23 12:41
2	2G176273.D	CAL 1660@200PPB	05/17/23 13:04
3	2G176274.D	CAL 1660@500PPB	05/17/23 13:16
4	2G176275.D	CAL 1660@1000PPB	05/17/23 13:28
5	2G176276.D	CAL 1660@2000PPB	05/17/23 13:39
6	2G176277.D	CAL 1660@4000PPB	05/17/23 13:51
7	2G176266.D	CAL 3268@500PPB	05/17/23 11:42
8	2G176267.D	CAL 1242@500PPB	05/17/23 11:54
9	2G176268.D	CAL 1248@500PPB	05/17/23 12:05
10	2G176269.D	CAL 2154@500PPB	05/17/23 12:17
11	2G176270.D	CAL 1262@500PPB	05/17/23 12:29

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
TCMX-Surrogate	1	0	Avg	812.21	838.88	850.02	870.49	859.12	846.46	----	----	846	3.21	1.00	1.00	2.4	5.00	20.00	50.00	100.0	200.0	400.0		
Aroclor-1016	1	1	Avg	10.655	12.923	12.685	14.902	12.394	13.653	----	----	12.9	3.67	0.996	0.997	11	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	2	Avg	34.679	32.233	29.866	30.132	31.483	29.332	----	----	31.3	3.99	0.999	1.00	6.3	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	3	Avg	58.631	59.817	63.096	64.915	63.413	62.210	----	----	62.0	4.41	1.00	1.00	3.8	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	4	Avg	15.691	22.082	20.503	21.384	20.452	19.834	----	----	20.0	4.62	0.999	1.00	11	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	5	Avg	13.377	15.341	14.007	14.234	13.593	13.083	----	----	13.9	4.69	0.999	1.00	5.8	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	1	Avg	43.344	40.804	38.089	37.336	36.128	34.963	----	----	38.4	6.04	1.00	1.00	8.1	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	2	Avg	47.469	47.709	44.515	44.172	43.132	42.033	----	----	44.8	6.26	1.00	1.00	5.1	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	3	Avg	19.305	21.178	19.942	18.978	18.485	17.701	----	----	19.3	6.68	0.999	1.00	6.3	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	4	Avg	32.764	32.772	31.529	31.906	31.764	31.636	----	----	32.1	6.94	1.00	1.00	1.8	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	5	Avg	47.052	52.448	51.687	52.317	52.078	52.002	----	----	51.3	7.56	1.00	1.00	4.1	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1221	1	1	Avg	----	----	----	----	----	----	----	----	7.47	3.48	-1	-1	Lvl=10	500.0							
Aroclor-1221	1	2	Avg	----	----	----	----	----	----	----	----	4.46	3.61	-1	-1	Lvl=10	500.0							
Aroclor-1221	1	3	Avg	----	----	----	----	----	----	----	----	18.3	3.67	-1	-1	Lvl=10	500.0							
Aroclor-1232	1	1	Avg	----	----	----	----	----	----	----	----	11.4	3.67	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	2	Avg	----	----	----	----	----	----	----	----	12.2	3.99	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	3	Avg	----	----	----	----	----	----	----	----	20.5	4.41	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	4	Avg	----	----	----	----	----	----	----	----	6.35	4.62	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	5	Avg	----	----	----	----	----	----	----	----	5.36	4.69	-1	-1	Lvl=7	500.0							
Aroclor-1242	1	1	Avg	----	----	----	----	----	----	----	----	11.1	3.67	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	2	Avg	----	----	----	----	----	----	----	----	22.2	3.99	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	3	Avg	----	----	----	----	----	----	----	----	41.9	4.41	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	4	Avg	----	----	----	----	----	----	----	----	15.3	4.62	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	5	Avg	----	----	----	----	----	----	----	----	19.8	4.93	-1	-1	Lvl=8	500.0							
Aroclor-1248	1	1	Avg	----	----	----	----	----	----	----	----	10.9	3.99	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	2	Avg	----	----	----	----	----	----	----	----	26.9	4.40	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	3	Avg	----	----	----	----	----	----	----	----	16.0	4.69	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	4	Avg	----	----	----	----	----	----	----	----	32.9	4.93	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	5	Avg	----	----	----	----	----	----	----	----	29.1	5.02	-1	-1	Lvl=9	500.0							
Aroclor-1254	1	1	Avg	----	----	----	----	----	----	----	----	48.6	5.90	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	2	Avg	----	----	----	----	----	----	----	----	25.4	6.04	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	3	Avg	----	----	----	----	----	----	----	----	30.6	6.14	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	4	Avg	----	----	----	----	----	----	----	----	22.1	6.26	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	5	Avg	----	----	----	----	----	----	----	----	20.9	6.48	-1	-1	Lvl=10	500.0							
Aroclor-1262	1	1	Avg	----	----	----	----	----	----	----	----	31.9	6.26	-1	-1	Lvl=11	500.0							
Aroclor-1262	1	2	Avg	----	----	----	----	----	----	----	----	29.8	7.50	-1	-1	Lvl=11	500.0							

Avg Rsd Col 1: 5.68 Avg Rsd Col 2: 4.24

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq
Corr 2 = Correlation Coefficient for quad Eq

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 · Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

3062404 0470

Form 6
Initial Calibration

Method: EPA 8082A

Instrument: GC_2

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	2G176271.D	CAL 1660@50PPB	05/17/23 12:41	2	2G176273.D	CAL 1660@200PPB	05/17/23 13:04
3	2G176274.D	CAL 1660@500PPB	05/17/23 13:16	4	2G176275.D	CAL 1660@1000PPB	05/17/23 13:28
5	2G176276.D	CAL 1660@2000PPB	05/17/23 13:39	6	2G176277.D	CAL 1660@4000PPB	05/17/23 13:51
7	2G176266.D	CAL 3268@500PPB	05/17/23 11:42	8	2G176267.D	CAL 1242@500PPB	05/17/23 11:54
9	2G176268.D	CAL 1248@500PPB	05/17/23 12:05	10	2G176269.D	CAL 2154@500PPB	05/17/23 12:17
11	2G176270.D	CAL 1262@500PPB	05/17/23 12:29				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Aroclor-1262	1	3	Avg	----	----	----	----	----	----	----	----	61.3	7.55	-1	-1	Lvl=11	500.0							
Aroclor-1262	1	4	Avg	----	----	----	----	----	----	----	----	28.8	8.14	-1	-1	Lvl=11	500.0							
Aroclor-1262	1	5	Avg	----	----	----	----	----	----	----	----	9.34	8.42	-1	-1	Lvl=11	500.0							
Aroclor-1268	1	1	Avg	----	----	----	----	----	----	----	----	7.19	6.93	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	2	Avg	----	----	----	----	----	----	----	----	8.30	7.21	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	3	Avg	----	----	----	----	----	----	----	----	72.2	7.70	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	4	Avg	----	----	----	----	----	----	----	----	18.3	7.79	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	5	Avg	----	----	----	----	----	----	----	----	224	8.42	-1	-1	Lvl=7	500.0							
DCB-Surrogate	1	0	Avg	729.80	740.35	710.16	710.85	700.27	695.43	----	----	714	8.59	1.00	1.00	2.4	5.00	20.00	50.00	100.0	200.0	400.0		
TCMX-Surrogate	2	0	Avg	1264.6	1274.0	1282.0	1322.5	1280.2	1270.7	----	----	1280	3.17	1.00	1.00	1.6	5.00	20.00	50.00	100.0	200.0	400.0		
Aroclor-1016	2	1	Avg	19.232	19.761	18.150	18.648	17.934	17.469	----	----	18.5	3.71	1.00	1.00	4.6	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	2	Avg	52.068	49.658	46.656	46.472	44.684	43.219	----	----	47.1	4.07	1.00	1.00	6.9	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	3	Avg	67.178	64.758	62.352	64.664	62.077	61.175	----	----	63.7	4.41	1.00	1.00	3.5	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	4	Avg	36.371	35.202	32.074	33.102	32.014	31.475	----	----	33.4	4.56	1.00	1.00	5.9	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	5	Avg	41.239	46.301	43.298	44.079	42.787	42.003	----	----	43.3	4.69	1.00	1.00	4.1	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	1	Avg	72.565	67.887	63.105	62.284	60.521	59.080	----	----	64.2	6.14	1.00	1.00	7.9	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	2	Avg	72.958	70.223	66.548	66.267	64.406	63.049	----	----	67.2	6.21	1.00	1.00	5.5	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	3	Avg	49.596	47.575	44.686	45.795	44.612	44.100	----	----	46.1	7.05	1.00	1.00	4.6	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	4	Avg	52.459	53.713	52.629	56.120	55.064	56.426	----	----	54.4	7.65	1.00	1.00	3.2	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	5	Avg	31.571	32.239	31.538	32.857	32.404	33.027	----	----	32.3	8.11	1.00	1.00	1.9	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1221	2	1	Avg	----	----	----	----	----	----	----	----	12.0	3.52	-1	-1	Lvl=10	500.0							
Aroclor-1221	2	2	Avg	----	----	----	----	----	----	----	----	7.23	3.65	-1	-1	Lvl=10	500.0							
Aroclor-1221	2	3	Avg	----	----	----	----	----	----	----	----	25.3	3.71	-1	-1	Lvl=10	500.0							
Aroclor-1232	2	1	Avg	----	----	----	----	----	----	----	----	16.0	3.71	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	2	Avg	----	----	----	----	----	----	----	----	19.2	4.07	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	3	Avg	----	----	----	----	----	----	----	----	22.8	4.41	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	4	Avg	----	----	----	----	----	----	----	----	17.7	4.69	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	5	Avg	----	----	----	----	----	----	----	----	7.97	4.74	-1	-1	Lvl=7	500.0							
Aroclor-1242	2	1	Avg	----	----	----	----	----	----	----	----	16.2	3.71	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	2	Avg	----	----	----	----	----	----	----	----	35.5	4.07	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	3	Avg	----	----	----	----	----	----	----	----	47.5	4.41	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	4	Avg	----	----	----	----	----	----	----	----	24.9	4.56	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	5	Avg	----	----	----	----	----	----	----	----	26.4	5.01	-1	-1	Lvl=8	500.0							
Aroclor-1248	2	1	Avg	----	----	----	----	----	----	----	----	16.7	4.07	-1	-1	Lvl=9	500.0							
Aroclor-1248	2	2	Avg	----	----	----	----	----	----	----	----	25.8	4.41	-1	-1	Lvl=9	500.0							
Aroclor-1248	2	3	Avg	----	----	----	----	----	----	----	----	38.0	4.69	-1	-1	Lvl=9	500.0							

Avg Rsd Col 1: 5.68 Avg Rsd Col 2: 4.24

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

3062404 0471

Form 6

Initial Calibration

Method: EPA 8082A

Instrument: GC_2

Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	2G176271.D	CAL 1660@50PPB	05/17/23 12:41
3	2G176274.D	CAL 1660@500PPB	05/17/23 13:16
5	2G176276.D	CAL 1660@2000PPB	05/17/23 13:39
7	2G176266.D	CAL 3268@500PPB	05/17/23 11:42
9	2G176268.D	CAL 1248@500PPB	05/17/23 12:05
11	2G176270.D	CAL 1262@500PPB	05/17/23 12:29

Level #:	Data File:	Cal Identifier:	Analysis Date/Time
2	2G176273.D	CAL 1660@200PPB	05/17/23 13:04
4	2G176275.D	CAL 1660@1000PPB	05/17/23 13:28
6	2G176277.D	CAL 1660@4000PPB	05/17/23 13:51
8	2G176267.D	CAL 1242@500PPB	05/17/23 11:54
10	2G176269.D	CAL 2154@500PPB	05/17/23 12:17

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Aroclor-1248	2	4	Avg	----	----	----	----	----	----	----	----	38.8	5.01	-1	-1	Lvl=9	500.0							
Aroclor-1248	2	5	Avg	----	----	----	----	----	----	----	----	43.0	5.25	-1	-1	Lvl=9	500.0							
Aroclor-1254	2	1	Avg	----	----	----	----	----	----	----	----	46.7	5.44	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	2	Avg	----	----	----	----	----	----	----	----	18.7	5.73	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	3	Avg	----	----	----	----	----	----	----	----	54.2	6.08	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	4	Avg	----	----	----	----	----	----	----	----	29.9	6.51	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	5	Avg	----	----	----	----	----	----	----	----	27.2	7.10	-1	-1	Lvl=10	500.0							
Aroclor-1262	2	1	Avg	----	----	----	----	----	----	----	----	39.4	6.57	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	2	Avg	----	----	----	----	----	----	----	----	50.6	7.56	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	3	Avg	----	----	----	----	----	----	----	----	50.6	7.65	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	4	Avg	----	----	----	----	----	----	----	----	55.9	8.11	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	5	Avg	----	----	----	----	----	----	----	----	13.0	8.52	-1	-1	Lvl=11	500.0							
Aroclor-1268	2	1	Avg	----	----	----	----	----	----	----	----	8.23	7.14	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	2	Avg	----	----	----	----	----	----	----	----	13.7	7.18	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	3	Avg	----	----	----	----	----	----	----	----	105	7.91	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	4	Avg	----	----	----	----	----	----	----	----	24.7	8.03	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	5	Avg	----	----	----	----	----	----	----	----	343	8.52	-1	-1	Lvl=7	500.0							
DCB-Surrogate	2	0	Avg	1073.8	1072.9	1042.1	1065.5	1061.0	1070.1	----	----	1060	8.93	1.00	1.00	1.1	5.00	20.00	50.00	100.0	200.0	400.0		

Avg Rsd Col 1: 5.68 Avg Rsd Col 2: 4.24

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 · Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176271.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 12:41
Operator : AH/PR/KM
Sample : CAL 1660@50PPB
Misc : S,PCB
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:06:08 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.208	3.171	40610822	63231849	4.959	5.011
2)Aroclor-1016 {1}	3.668	3.706	5327804	9616252	40.980	52.992 #
3)Aroclor-1016 {2}	3.990	4.072	17339629	26034019	56.524m	56.669
4)Aroclor-1016 {3}	4.407	4.407	29315919	33589119	49.418m	54.980m
5)Aroclor-1016 {4}	4.618	4.559	7845806	18185956	43.846	57.969m#
6)Aroclor-1016 {5}	4.693	4.688	6688657	20619729	52.058	48.660
7)Aroclor-1260 {1}	6.040	6.138	21672065	36282679	56.166	58.194
8)Aroclor-1260 {2}	6.260	6.212	23734534	36479011	52.789	55.857
9)Aroclor-1260 {3}	6.678	7.055	9652610	24798467	49.697	55.913m
10)Aroclor-1260 {4}	6.936	7.651	16382278	26229840	50.246m	48.546
11)Aroclor-1260 {5}	7.558	8.109	23526039	15785505	43.747	49.228
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176271.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 12:41
Operator : AH/PR/KM
Sample : CAL 1660@50PPB
Misc : S,PCB
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:06:08 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	8.591	8.926	36490329	53690431	5.113	5.161

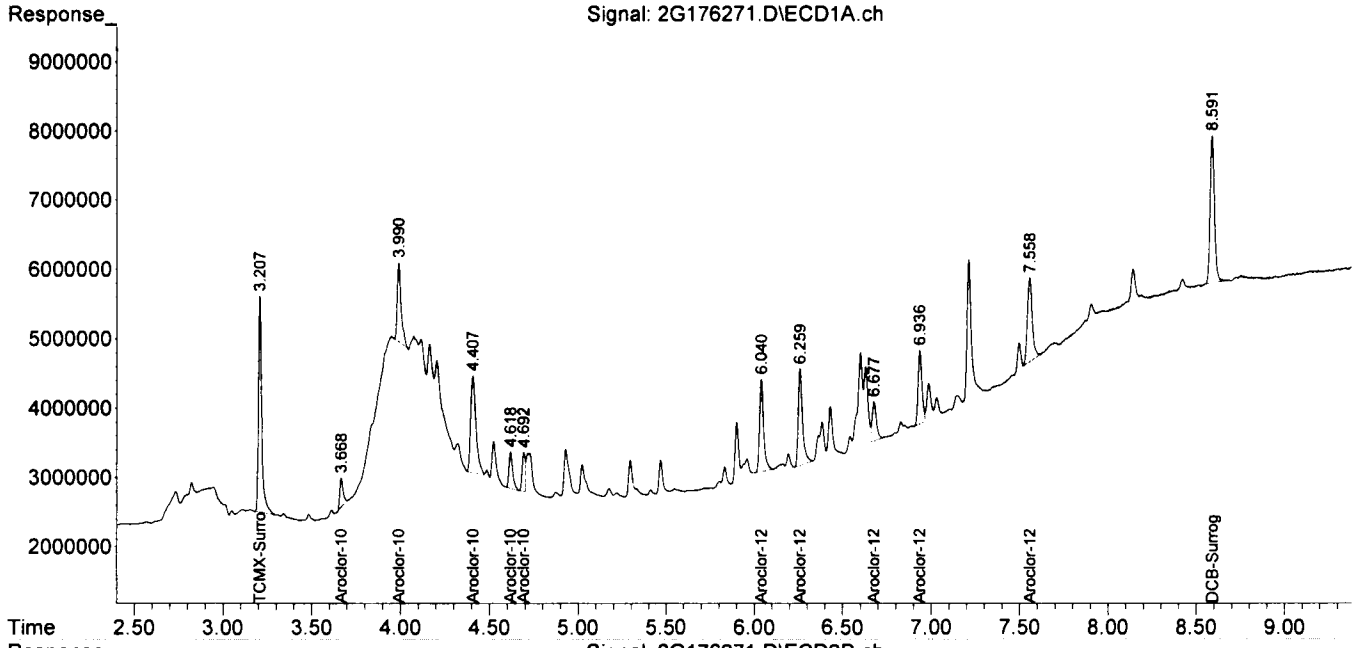
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

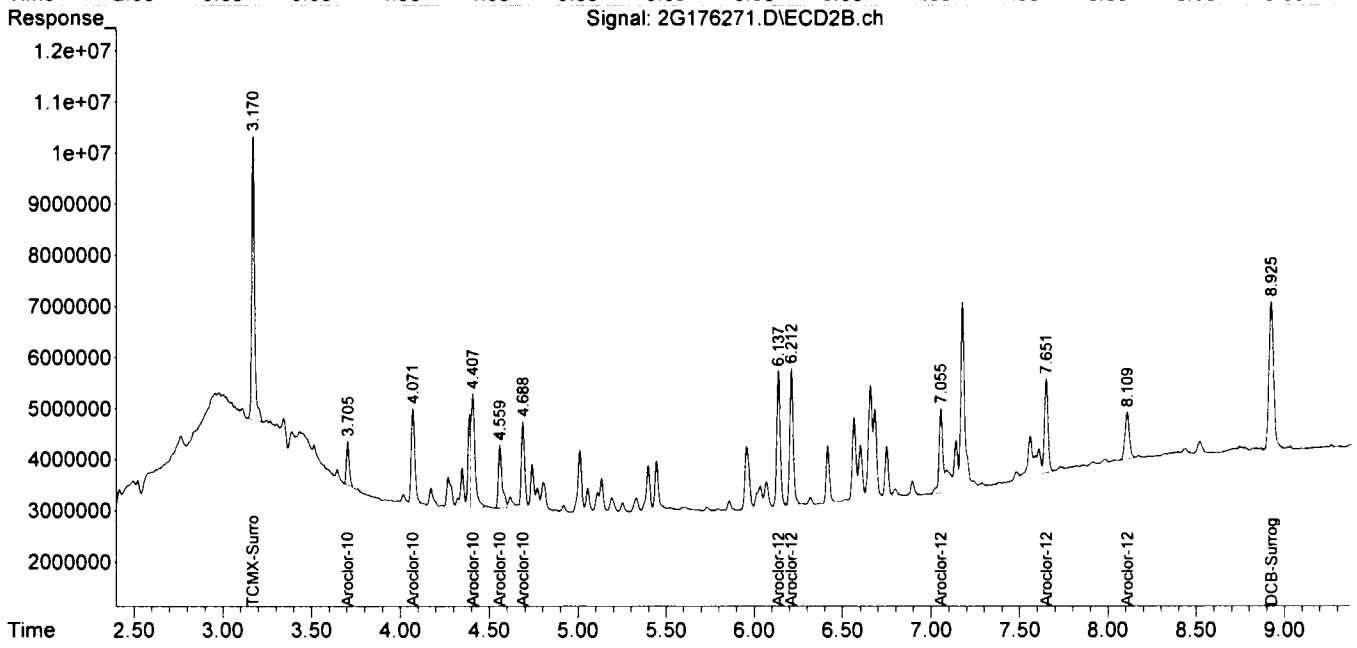
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176271.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 12:41
Operator : AH/PR/KM
Sample : CAL 1660@50PPB
Misc : S,PCB
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:06:08 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176273.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 13:04
Operator : AH/PR/KM
Sample : CAL 1660@200PPB
Misc : S,PCB
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:06:56 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.208	3.171	167.8E6	254.8E6	20.487	20.194
2)Aroclor-1016 {1}	3.667	3.706	25846787	39522113	198.805	217.794
3)Aroclor-1016 {2}	3.991	4.072	64467483	99316269	210.153m	216.185
4)Aroclor-1016 {3}	4.406	4.408	119.6E6	129.5E6	201.669m	211.999m
5)Aroclor-1016 {4}	4.617	4.559	44164256	70404248	246.809	224.419
6)Aroclor-1016 {5}	4.692	4.688	30683498	92603325	238.811	218.533
7)Aroclor-1260 {1}	6.039	6.137	81609304	135.8E6	211.503	217.769
8)Aroclor-1260 {2}	6.259	6.211	95419066	140.4E6	212.226	215.053
9)Aroclor-1260 {3}	6.678	7.054	42356070	95150348	218.072	214.534m
10)Aroclor-1260 {4}	6.935	7.651	65545452	107.4E6	201.035	198.823
11)Aroclor-1260 {5}	7.556	8.111	104.9E6	64479933	195.059	201.085
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176273.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 13:04
Operator : AH/PR/KM
Sample : CAL 1660@200PPB
Misc : S,PCB
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:06:56 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	8.590	8.925	148.1E6	214.6E6	20.748	20.628

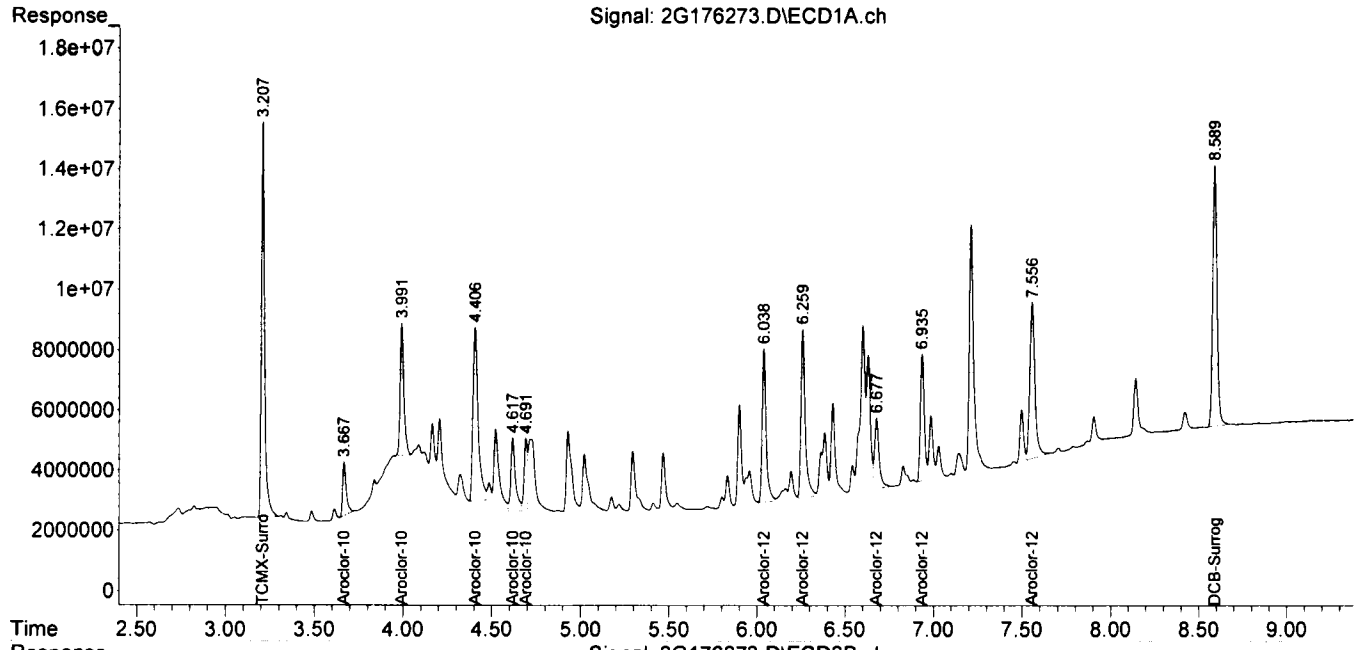
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

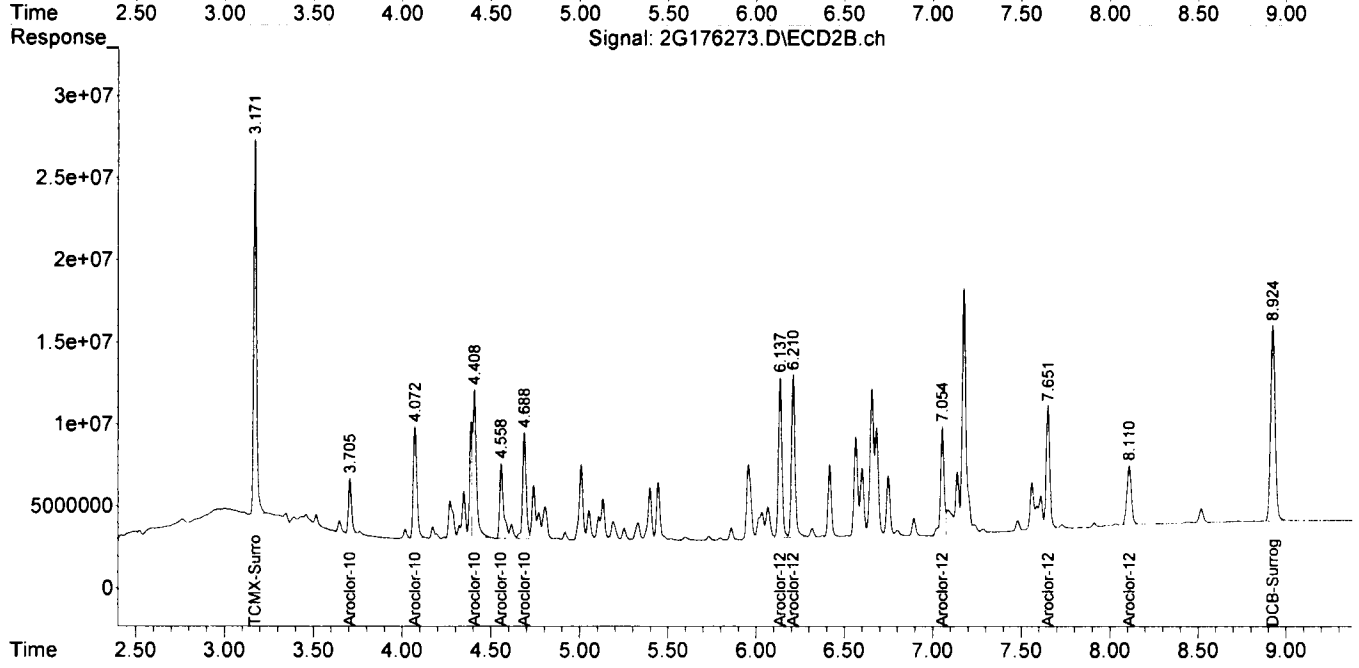
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176273.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 13:04
Operator : AH/PR/KM
Sample : CAL 1660@200PPB
Misc : S,PCB
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:06:56 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176274.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 13:16
Operator : AH/PR/KM
Sample : CAL 1660@500PPB
Misc : S,PCB
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:07:28 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.208	3.171	425.0E6	641.0E6	51.897	50.804
2)Aroclor-1016 {1}	3.667	3.706	63425130	90750572	487.846	500.098
3)Aroclor-1016 {2}	3.991	4.072	149.3E6	233.3E6	486.806m	507.791
4)Aroclor-1016 {3}	4.407	4.408	315.5E6	311.8E6	531.813	510.306
5)Aroclor-1016 {4}	4.618	4.559	102.5E6	160.4E6	572.903	511.205
6)Aroclor-1016 {5}	4.692	4.688	70036365	216.5E6	545.097	510.892
7)Aroclor-1260 {1}	6.039	6.138	190.4E6	315.5E6	493.579	506.076
8)Aroclor-1260 {2}	6.259	6.211	222.6E6	332.7E6	495.040	509.496
9)Aroclor-1260 {3}	6.678	7.055	99712636	223.4E6	513.375	503.766m
10)Aroclor-1260 {4}	6.935	7.651	157.6E6	263.1E6	483.522	487.032
11)Aroclor-1260 {5}	7.557	8.111	258.4E6	157.7E6	480.571	491.777
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176274.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 13:16
Operator : AH/PR/KM
Sample : CAL 1660@500PPB
Misc : S,PCB
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:07:28 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	8.591	8.927	355.1E6	521.1E6	49.754	50.087

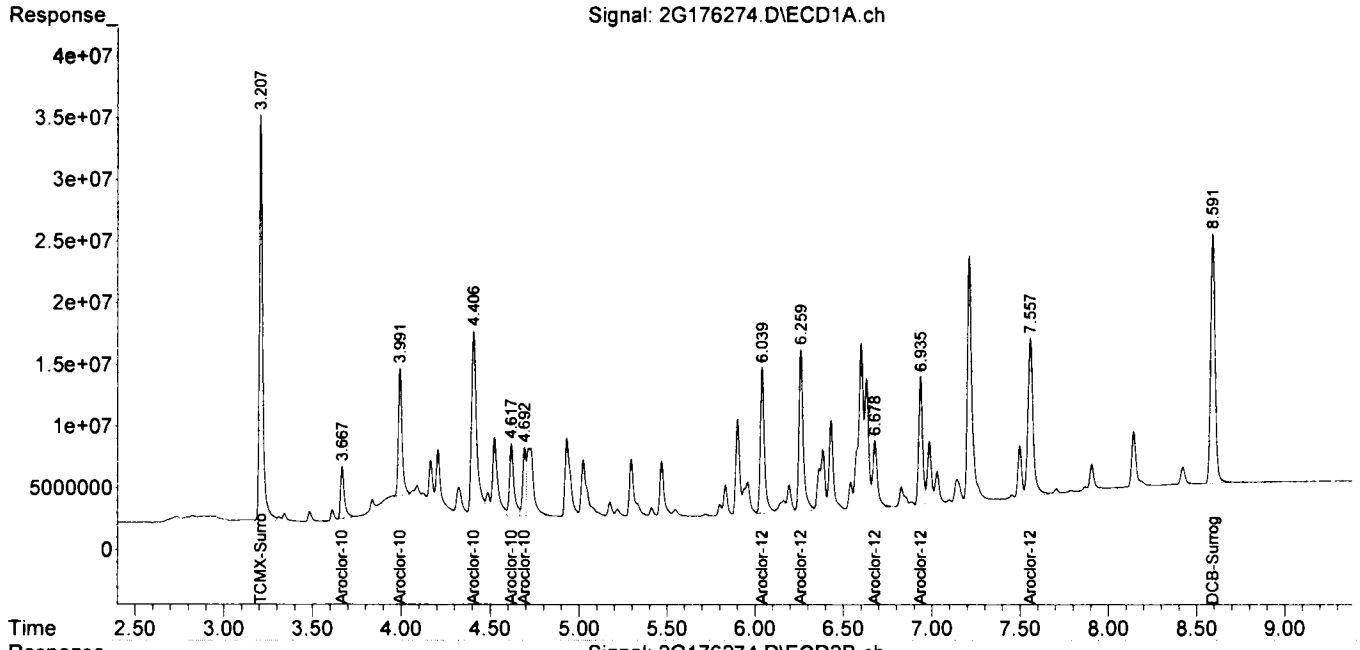
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

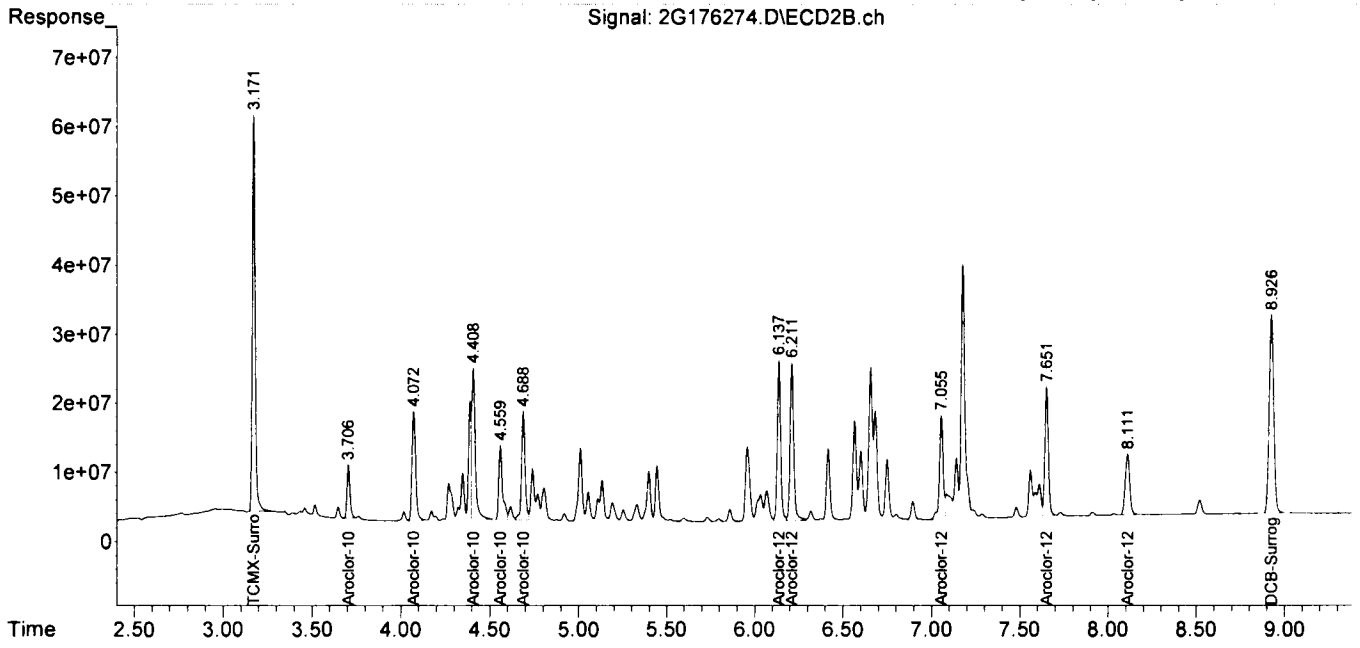
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176274.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 13:16
Operator : AH/PR/KM
Sample : CAL 1660@500PPB
Misc : S,PCB
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:07:28 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176275.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 13:28
Operator : AH/PR/KM
Sample : CAL 1660@1000PPB
Misc : S,PCB
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:08:03 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.208	3.172	870.5E6	1322.5E6	106.292	104.815
2)Aroclor-1016 {1}	3.667	3.706	149.0E6	186.5E6	1146.277	1027.668
3)Aroclor-1016 {2}	3.991	4.072	301.3E6	464.7E6	982.284m	1011.584
4)Aroclor-1016 {3}	4.406	4.408	649.2E6	646.6E6	1094.286	1058.451
5)Aroclor-1016 {4}	4.617	4.559	213.8E6	331.0E6	1195.062	1055.174
6)Aroclor-1016 {5}	4.692	4.689	142.3E6	440.8E6	1107.854	1040.217
7)Aroclor-1260 {1}	6.039	6.137	373.4E6	622.8E6	967.637	998.994
8)Aroclor-1260 {2}	6.259	6.211	441.7E6	662.7E6	982.449	1014.690
9)Aroclor-1260 {3}	6.678	7.055	189.8E6	458.0E6	977.125	1032.532m
10)Aroclor-1260 {4}	6.935	7.651	319.1E6	561.2E6	978.604	1038.670
11)Aroclor-1260 {5}	7.557	8.111	523.2E6	328.6E6	972.857	1024.691
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176275.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 13:28
Operator : AH/PR/KM
Sample : CAL 1660@1000PPB
Misc : S,PCB
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:08:03 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	8.590	8.925	710.9E6	1065.5E6	99.605	102.423

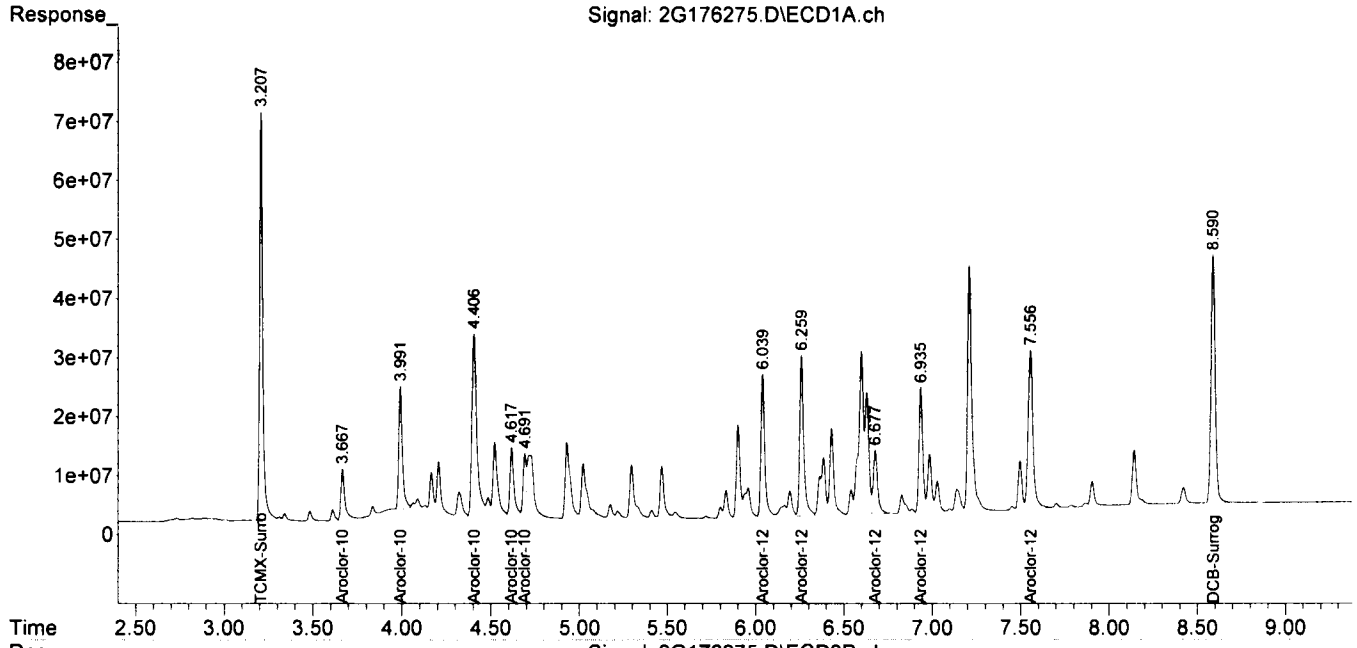
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

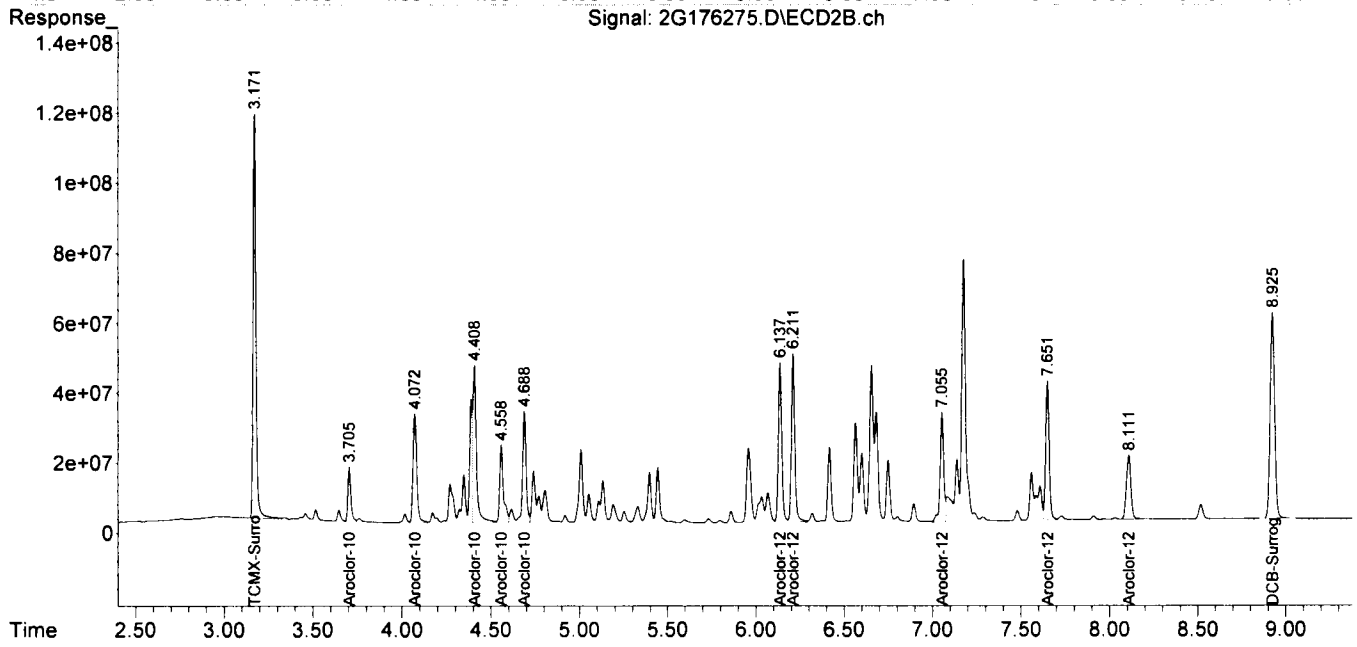
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176275.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 13:28
Operator : AH/PR/KM
Sample : CAL 1660@1000PPB
Misc : S,PCB
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:08:03 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176276.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 13:39
Operator : AH/PR/KM
Sample : CAL 1660@2000PPB
Misc : S,PCB
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:08:27 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.208	3.172	1718.3E6	2560.4E6	209.809	202.918
2)Aroclor-1016 {1}	3.666	3.706	247.9E6	358.7E6	1906.659m	1976.586
3)Aroclor-1016 {2}	3.991	4.072	629.7E6	893.7E6	2052.628m	1945.341
4)Aroclor-1016 {3}	4.406	4.408	1268.3E6	1241.6E6	2137.940	2032.218
5)Aroclor-1016 {4}	4.617	4.559	409.1E6	640.3E6	2285.977	2040.944
6)Aroclor-1016 {5}	4.691	4.688	271.9E6	855.8E6	2115.950	2019.480
7)Aroclor-1260 {1}	6.039	6.137	722.6E6	1210.4E6	1872.672	1941.429
8)Aroclor-1260 {2}	6.259	6.211	862.7E6	1288.1E6	1918.664	1972.388
9)Aroclor-1260 {3}	6.678	7.056	369.7E6	892.2E6	1903.510	2011.720
10)Aroclor-1260 {4}	6.935	7.651	635.3E6	1101.3E6	1948.536	2038.254
11)Aroclor-1260 {5}	7.557	8.111	1041.6E6	648.1E6	1936.801	2021.127
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176276.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 13:39
Operator : AH/PR/KM
Sample : CAL 1660@2000PPB
Misc : S,PCB
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:08:27 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	8.591	8.927	1400.6E6	2122.2E6	196.247	203.999

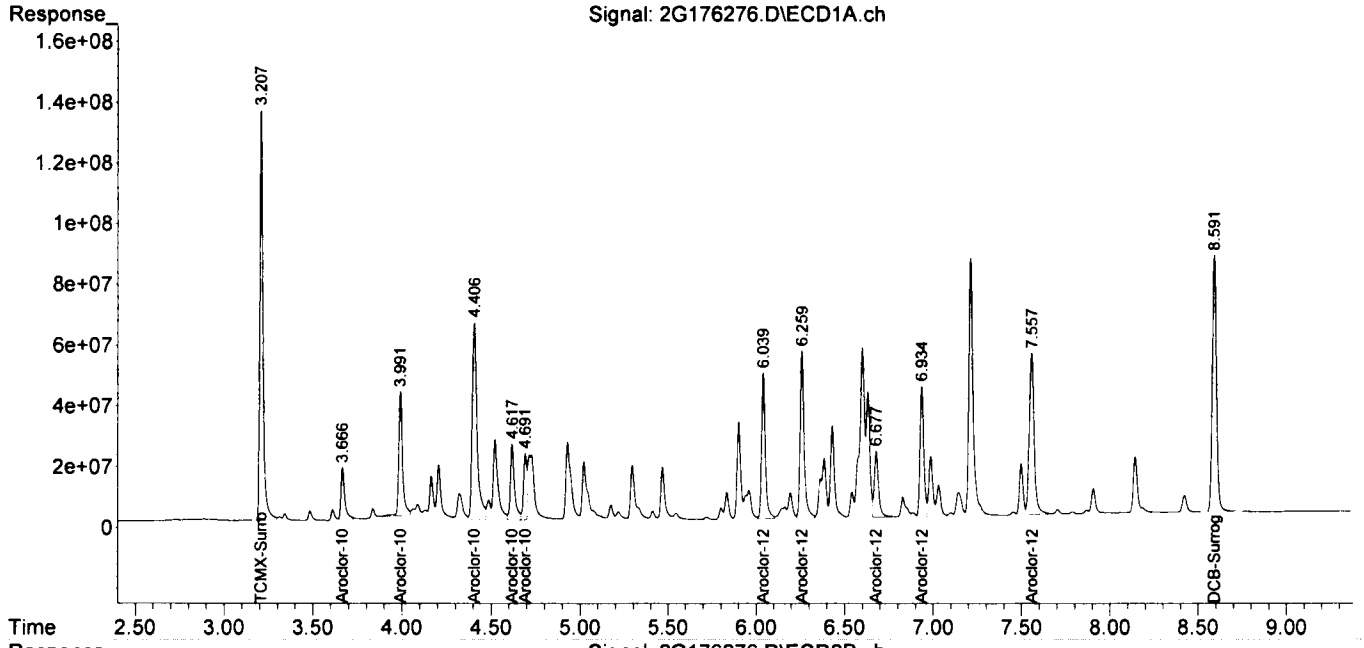
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

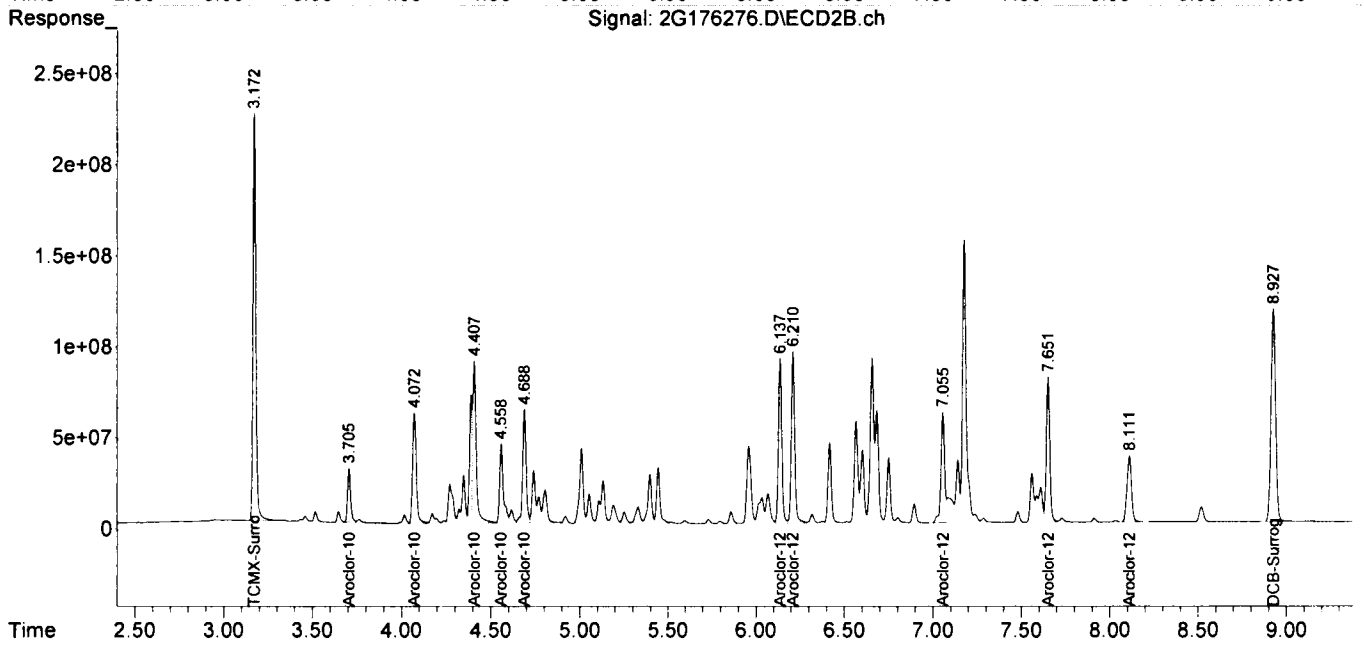
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176276.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 13:39
Operator : AH/PR/KM
Sample : CAL 1660@2000PPB
Misc : S,PCB
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:08:27 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176277.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 13:51
Operator : AH/PR/KM
Sample : CAL 1660@4000PPB
Misc : S,PCB
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:09:06 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.208	3.172	3385.8E6	5083.1E6	413.432	402.849
2)Aroclor-1016 {1}	3.666	3.705	546.1E6	698.8E6	4200.766	3850.813
3)Aroclor-1016 {2}	3.991	4.072	1173.3E6	1728.8E6	3824.800m	3763.059
4)Aroclor-1016 {3}	4.405	4.407	2488.4E6	2447.0E6	4194.776	4005.383
5)Aroclor-1016 {4}	4.617	4.558	793.4E6	1259.0E6	4433.823	4013.246
6)Aroclor-1016 {5}	4.691	4.688	523.3E6	1680.1E6	4073.157	3964.951
7)Aroclor-1260 {1}	6.038	6.137	1398.5E6	2363.2E6	3624.539	3790.409
8)Aroclor-1260 {2}	6.259	6.211	1681.3E6	2522.0E6	3739.508	3861.649
9)Aroclor-1260 {3}	6.677	7.055	708.1E6	1764.0E6	3645.495	3977.293m
10)Aroclor-1260 {4}	6.934	7.651	1265.5E6	2257.1E6	3881.280	4177.343
11)Aroclor-1260 {5}	7.556	8.110	2080.1E6	1321.1E6	3867.949	4119.920
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176277.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 13:51
Operator : AH/PR/KM
Sample : CAL 1660@4000PPB
Misc : S,PCB
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:09:06 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	8.590	8.926	2781.8E6	4280.7E6	389.781	411.491

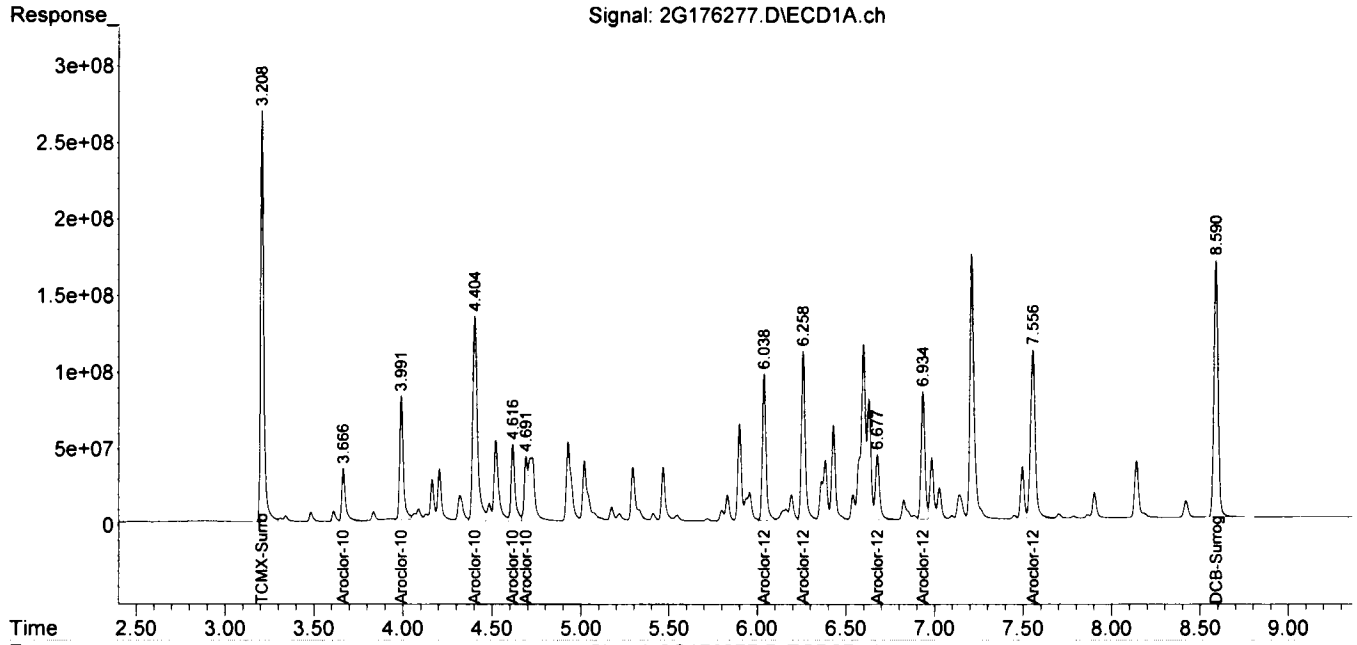
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

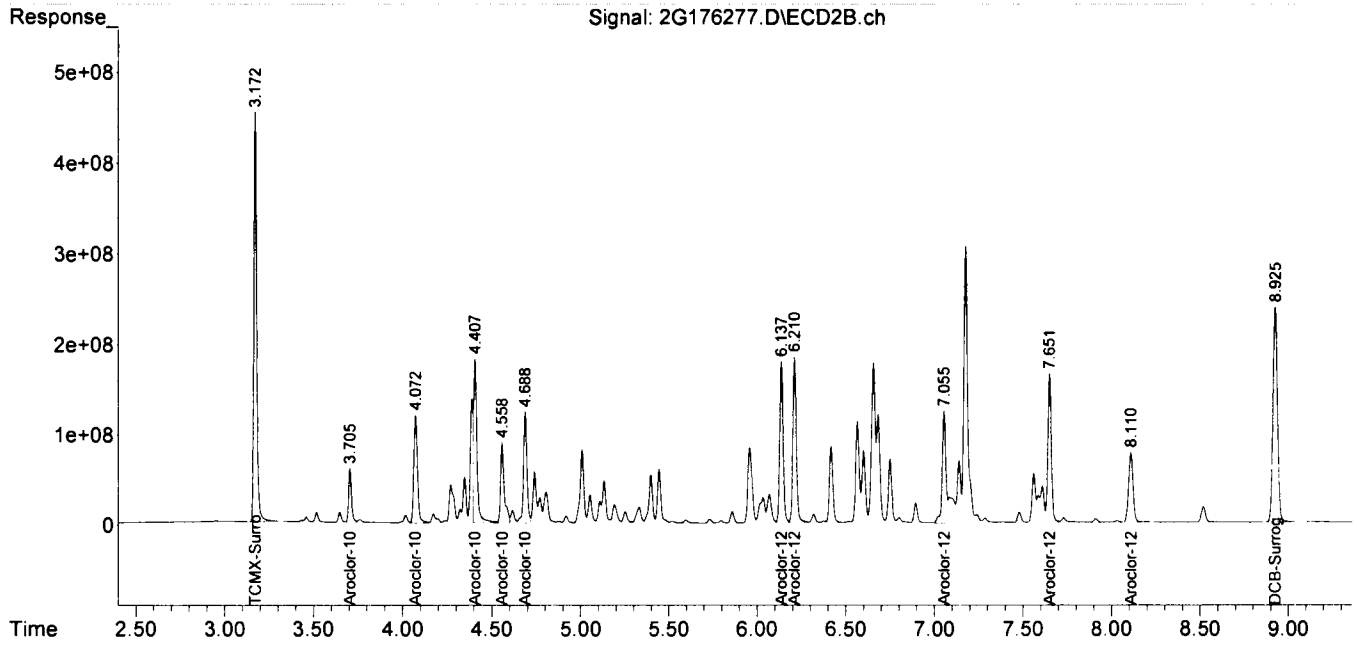
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176277.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 13:51
Operator : AH/PR/KM
Sample : CAL 1660@4000PPB
Misc : S,PCB
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:09:06 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176266.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 11:42
Operator : AH/PR/KM
Sample : CAL 3268@500PPB
Misc : S,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 15:56:45 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Fri Apr 28 16:11:06 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.208	3.171	401.8E6	625.9E6	49.058	49.601
2)Aroclor-1016 {1}	0.000	0.000	0	0	N.D. d	N.D. d
3)Aroclor-1016 {2}	0.000	0.000	0	0	N.D. d	N.D. d
4)Aroclor-1016 {3}	0.000	0.000	0	0	N.D. d	N.D. d
5)Aroclor-1016 {4}	0.000	0.000	0	0	N.D. d	N.D. d
6)Aroclor-1016 {5}	0.000	0.000	0	0	N.D. d	N.D. d
7)Aroclor-1260 {1}	0.000	0.000	0	0	N.D. d	N.D. d
8)Aroclor-1260 {2}	0.000	0.000	0	0	N.D. d	N.D. d
9)Aroclor-1260 {3}	0.000	0.000	0	0	N.D. d	N.D. d
10)Aroclor-1260 {4}	0.000	0.000	0	0	N.D. d	N.D. d
11)Aroclor-1260 {5}	0.000	0.000	0	0	N.D. d	N.D. d
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	3.667	3.705	56914349	79793714	494.864	490.874
16)Aroclor-1232 {2}	3.991	4.072	61179882	96057230	552.601m	496.436
17)Aroclor-1232 {3}	4.406	4.407	102.6E6	113.8E6	452.013m	493.904m
18)Aroclor-1232 {4}	4.618	4.688	31753068	88631685	488.460	503.646
19)Aroclor-1232 {5}	4.692	4.740	26810553	39859376	491.144m	508.834m
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	6.933	7.136	35968509	41163175	491.533m	480.211m
41)Aroclor-1268 {2}	7.212	7.177	41515475	68336066	479.990m	490.468
42)Aroclor-1268 {3}	7.703	7.912	360.8E6	525.9E6	483.964m	489.849

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176266.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 11:42
Operator : AH/PR/KM
Sample : CAL 3268@500PPB
Misc : S,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 15:56:45 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Fri Apr 28 16:11:06 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	7.787	8.032	91313332	123.3E6	484.796m	481.587
44)Aroclor-1268 {5}	8.422	8.520	1122.2E6	1714.4E6	472.310m	497.839
45)DCB-Surrogate	8.591	8.927	550.5E6	818.9E6	77.137	78.716

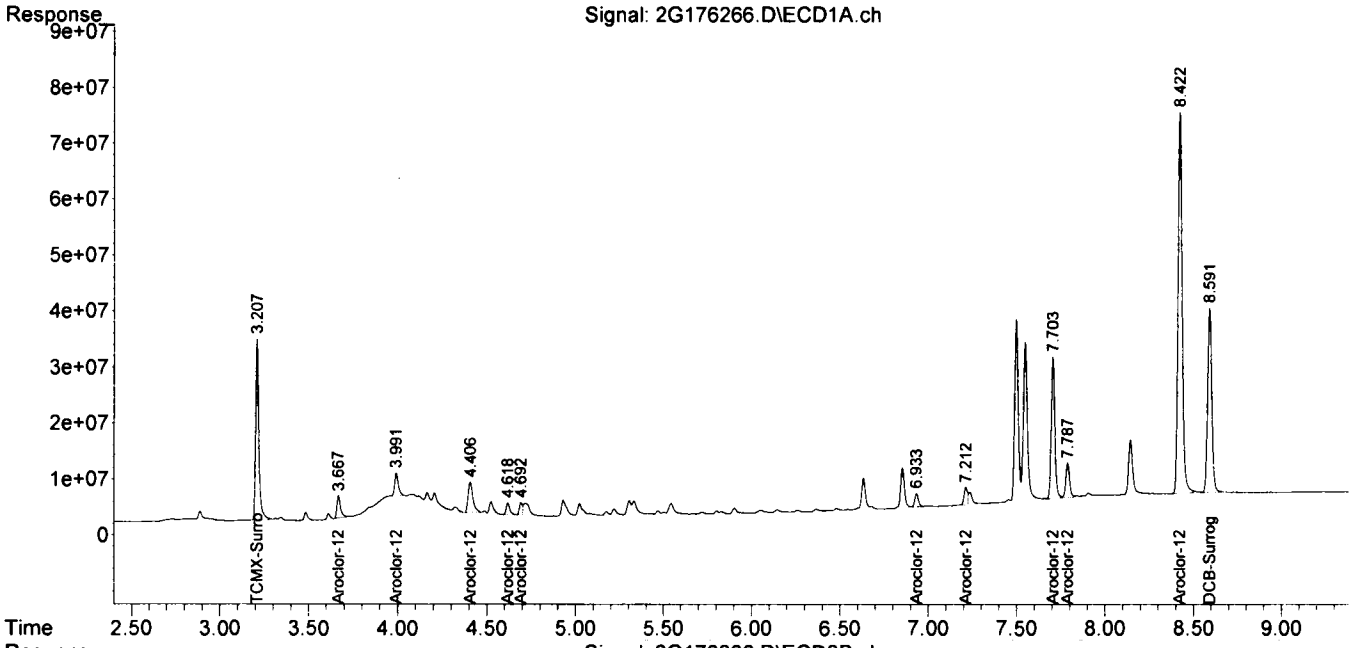
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

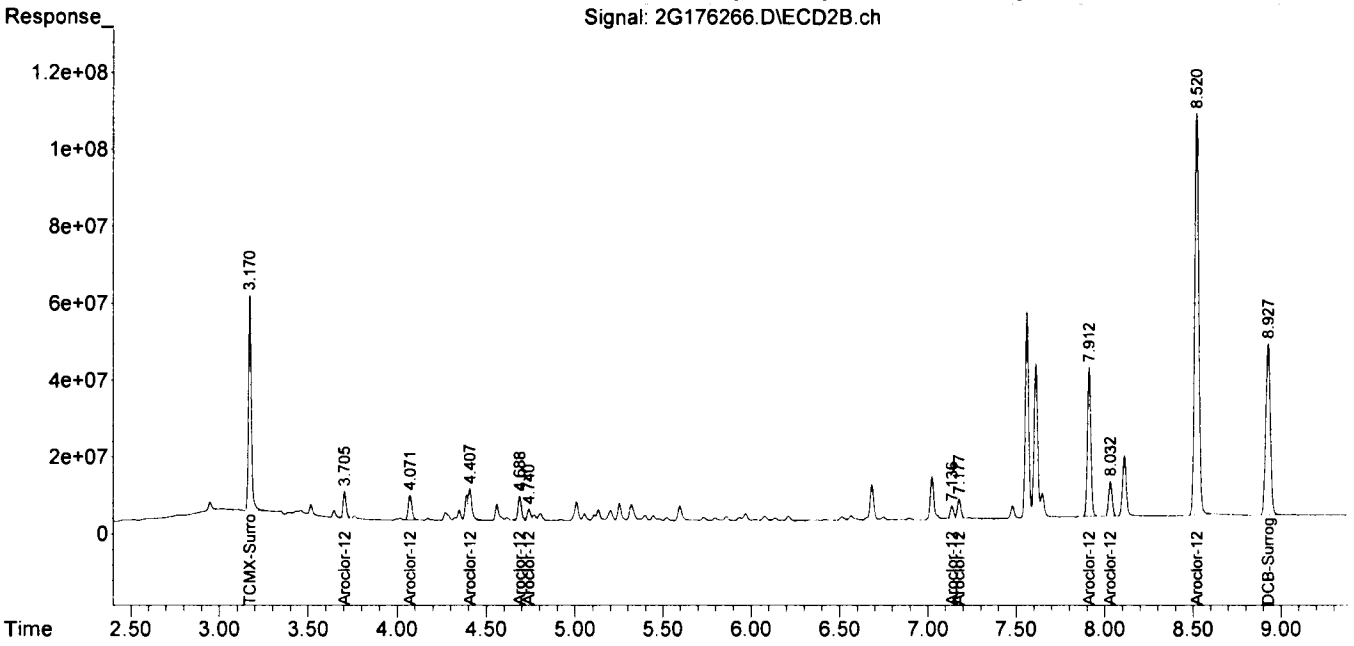
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176266.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 11:42
Operator : AH/PR/KM
Sample : CAL 3268@500PPB
Misc : S,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 15:56:45 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Fri Apr 28 16:11:06 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176267.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 11:54
Operator : AH/PR/KM
Sample : CAL 1242@500PPB
Misc : S,PCB
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:00:28 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Fri Apr 28 16:11:06 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.208	3.171	420.9E6	644.7E6	51.395	51.091
2)Aroclor-1016 {1}	0.000	0.000	0	0	N.D. d	N.D. d
3)Aroclor-1016 {2}	0.000	0.000	0	0	N.D. d	N.D. d
4)Aroclor-1016 {3}	0.000	0.000	0	0	N.D. d	N.D. d
5)Aroclor-1016 {4}	0.000	0.000	0	0	N.D. d	N.D. d
6)Aroclor-1016 {5}	0.000	0.000	0	0	N.D. d	N.D. d
7)Aroclor-1260 {1}	0.000	0.000	0	0	N.D. d	N.D. d
8)Aroclor-1260 {2}	0.000	0.000	0	0	N.D. d	N.D. d
9)Aroclor-1260 {3}	0.000	0.000	0	0	N.D. d	N.D. d
10)Aroclor-1260 {4}	0.000	0.000	0	0	N.D. d	N.D. d
11)Aroclor-1260 {5}	0.000	0.000	0	0	N.D. d	N.D. d
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	3.667	3.706	55353940	80973936	514.607	505.753
21)Aroclor-1242 {2}	3.991	4.072	110.8E6	177.4E6	517.386m	502.774
22)Aroclor-1242 {3}	4.406	4.408	209.3E6	237.5E6	473.517m	504.571
23)Aroclor-1242 {4}	4.618	4.559	76333473	124.6E6	593.473	508.936
24)Aroclor-1242 {5}	4.930	5.008	99146035	131.8E6	491.513m	500.379m
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176267.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 11:54
Operator : AH/PR/KM
Sample : CAL 1242@500PPB
Misc : S,PCB
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:00:28 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Fri Apr 28 16:11:06 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	8.591	8.925	348.1E6	516.9E6	48.771	49.692

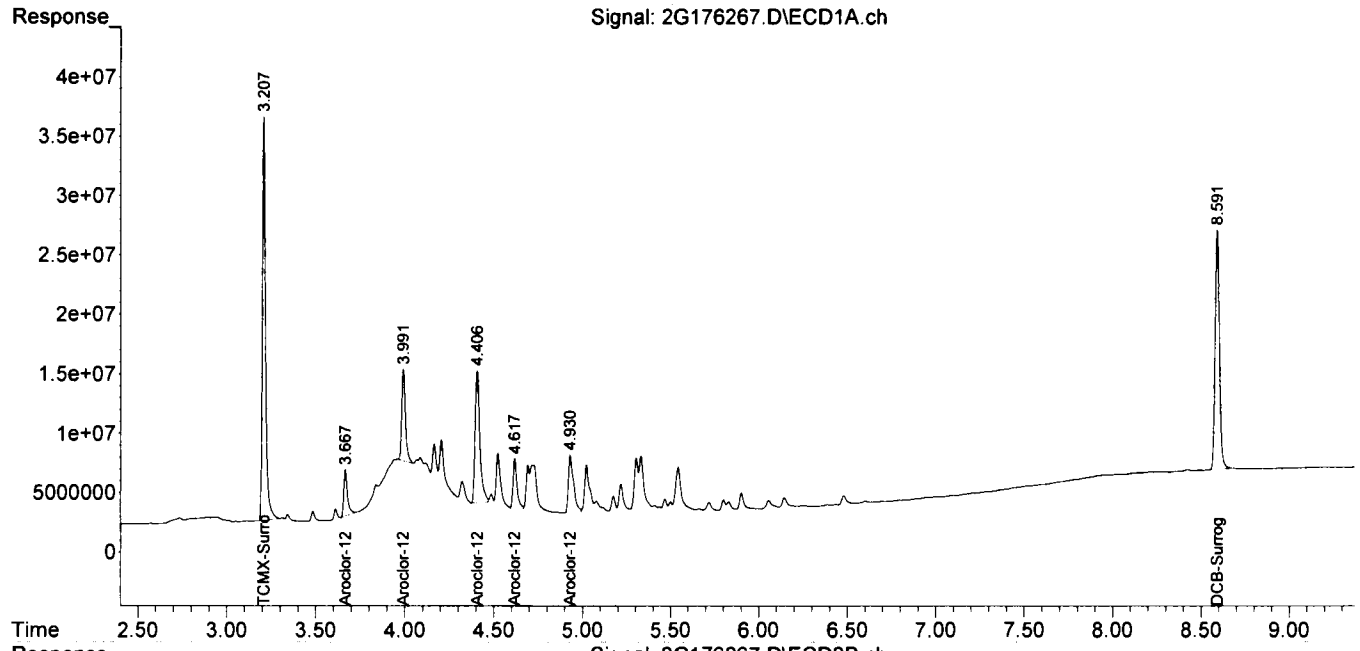
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

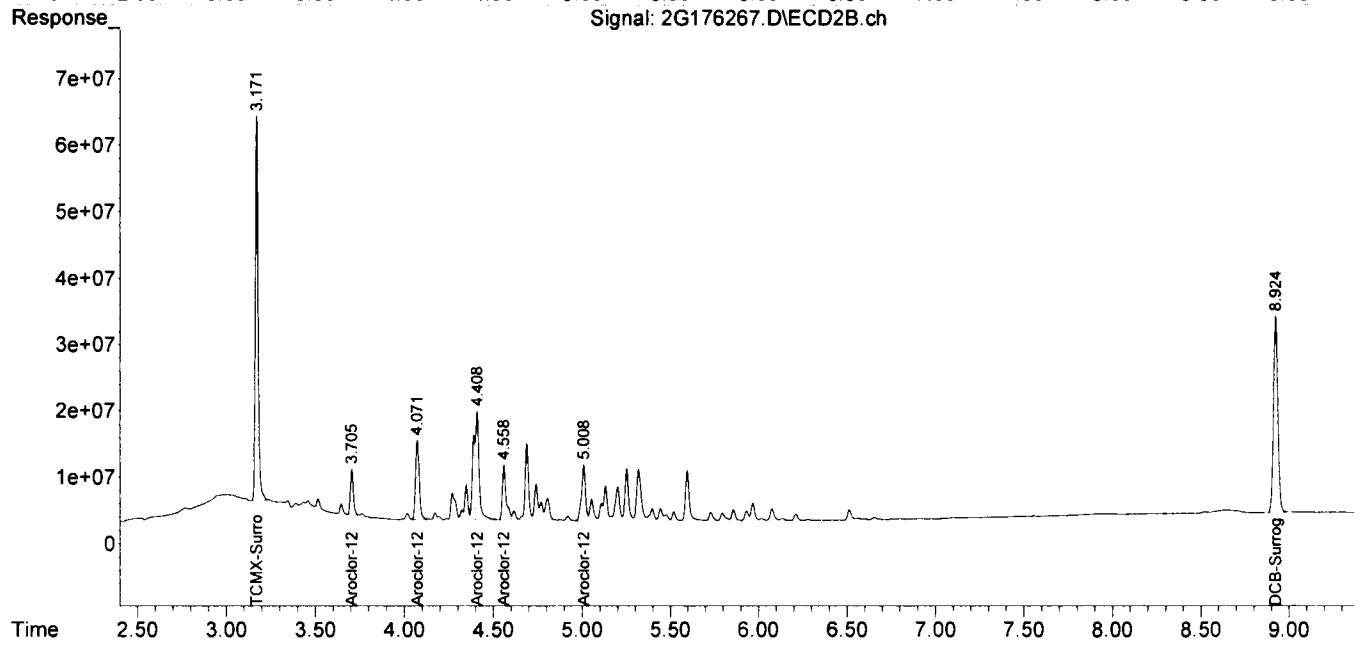
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176267.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 11:54
Operator : AH/PR/KM
Sample : CAL 1242@500PPB
Misc : S,PCB
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:00:28 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Fri Apr 28 16:11:06 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176268.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 12:05
Operator : AH/PR/KM
Sample : CAL 1248@500PPB
Misc : S,PCB
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:11:41 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Fri Apr 28 16:11:06 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.208	3.171	421.5E6	642.2E6	51.472	50.897
2)Aroclor-1016 {1}	0.000	0.000	0	0	N.D. d	N.D. d
3)Aroclor-1016 {2}	0.000	0.000	0	0	N.D. d	N.D. d
4)Aroclor-1016 {3}	0.000	0.000	0	0	N.D. d	N.D. d
5)Aroclor-1016 {4}	0.000	0.000	0	0	N.D. d	N.D. d
6)Aroclor-1016 {5}	0.000	0.000	0	0	N.D. d	N.D. d
7)Aroclor-1260 {1}	0.000	0.000	0	0	N.D. d	N.D. d
8)Aroclor-1260 {2}	0.000	0.000	0	0	N.D. d	N.D. d
9)Aroclor-1260 {3}	0.000	0.000	0	0	N.D. d	N.D. d
10)Aroclor-1260 {4}	0.000	0.000	0	0	N.D. d	N.D. d
11)Aroclor-1260 {5}	0.000	0.000	0	0	N.D. d	N.D. d
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	3.990	4.071	54736147	83476249	511.519m	501.503
26)Aroclor-1248 {2}	4.404	4.408	134.4E6	129.2E6	473.415m	498.002
27)Aroclor-1248 {3}	4.692	4.690	79992998	190.1E6	468.562m	501.644
28)Aroclor-1248 {4}	4.930	5.010	164.5E6	193.8E6	483.516	493.105
29)Aroclor-1248 {5}	5.022	5.251	145.4E6	214.8E6	490.605	494.971
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176268.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 12:05
Operator : AH/PR/KM
Sample : CAL 1248@500PPB
Misc : S,PCB
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:11:41 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Fri Apr 28 16:11:06 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	8.591	8.925	344.7E6	513.6E6	48.294	49.372

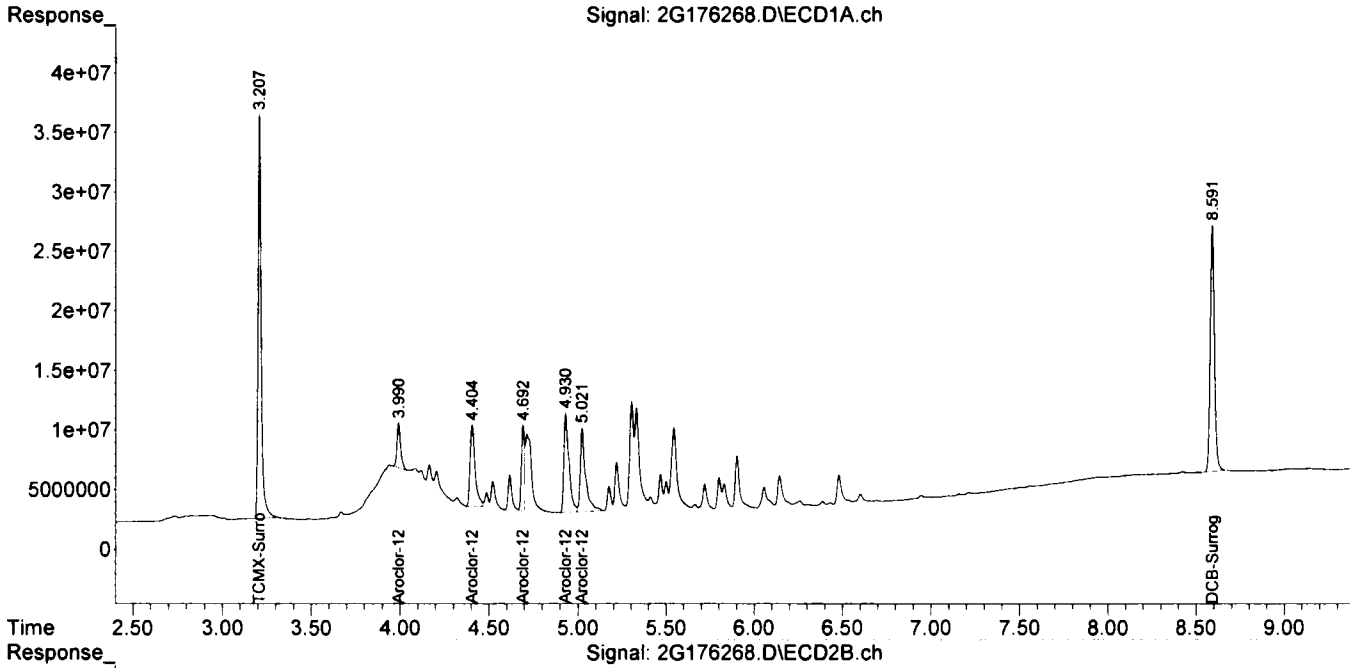
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

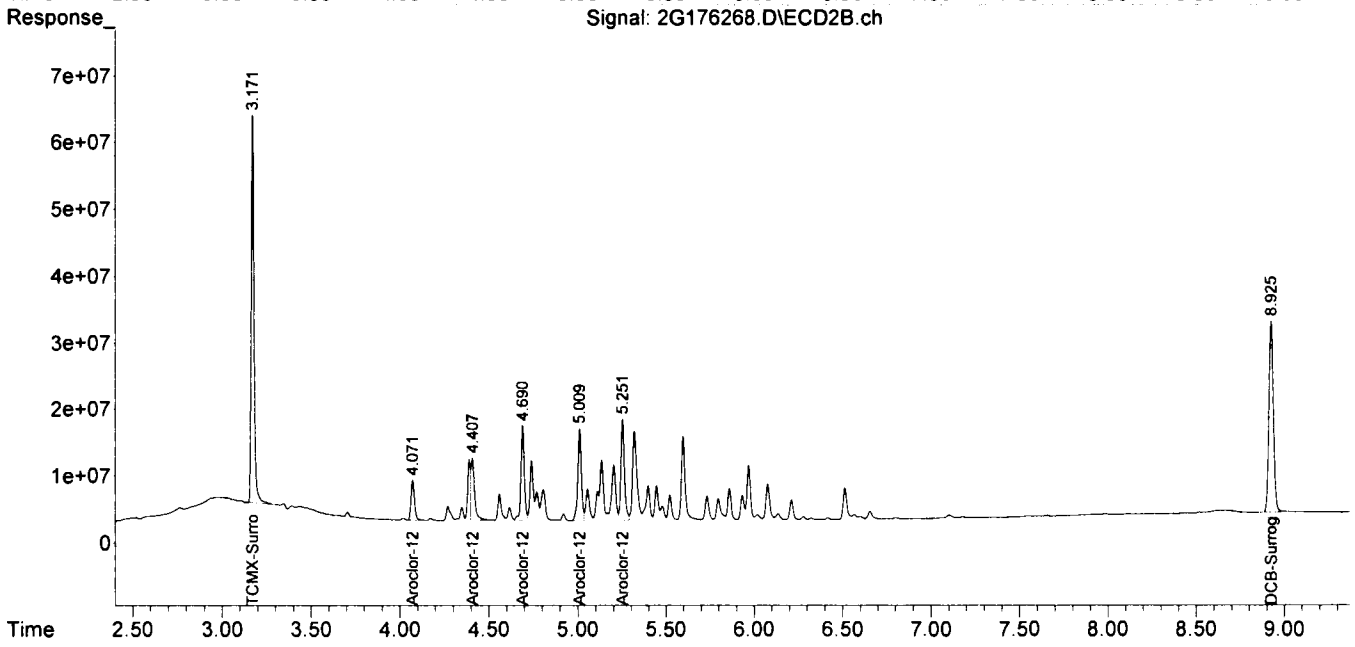
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176268.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 12:05
Operator : AH/PR/KM
Sample : CAL 1248@500PPB
Misc : S,PCB
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:11:41 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Fri Apr 28 16:11:06 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176269.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 12:17
Operator : AH/PR/KM
Sample : CAL 2154@500PPB
Misc : S,PCB
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:02:36 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Fri Apr 28 16:11:06 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.207	3.171	421.9E6	655.2E6	51.515	51.925
2)Aroclor-1016 {1}	0.000	0.000	0	0	N.D. d	N.D. d
3)Aroclor-1016 {2}	0.000	0.000	0	0	N.D. d	N.D. d
4)Aroclor-1016 {3}	0.000	0.000	0	0	N.D. d	N.D. d
5)Aroclor-1016 {4}	0.000	0.000	0	0	N.D. d	N.D. d
6)Aroclor-1016 {5}	0.000	0.000	0	0	N.D. d	N.D. d
7)Aroclor-1260 {1}	0.000	0.000	0	0	N.D. d	N.D. d
8)Aroclor-1260 {2}	0.000	0.000	0	0	N.D. d	N.D. d
9)Aroclor-1260 {3}	0.000	0.000	0	0	N.D. d	N.D. d
10)Aroclor-1260 {4}	0.000	0.000	0	0	N.D. d	N.D. d
11)Aroclor-1260 {5}	0.000	0.000	0	0	N.D. d	N.D. d
12)Aroclor-1221 {1}	3.483	3.517	37366676	60247215	478.427	473.765
13)Aroclor-1221 {2}	3.612	3.647	22313091	36144634	444.248	475.696
14)Aroclor-1221 {3}	3.667	3.705	91396674	126.5E6	491.694	492.084
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	5.900	5.444	243.2E6	233.3E6	472.436	481.029m
31)Aroclor-1254 {2}	6.040	5.732	127.2E6	93481775	470.040	492.854
32)Aroclor-1254 {3}	6.144	6.077	153.1E6	271.2E6	486.201	483.748
33)Aroclor-1254 {4}	6.259	6.513	110.6E6	149.3E6	471.314	467.528
34)Aroclor-1254 {5}	6.477	7.104	104.5E6	135.8E6	516.545m	484.983m
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176269.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 12:17
Operator : AH/PR/KM
Sample : CAL 2154@500PPB
Misc : S,PCB
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:02:36 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Fri Apr 28 16:11:06 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	8.591	8.926	348.1E6	517.2E6	48.778	49.720

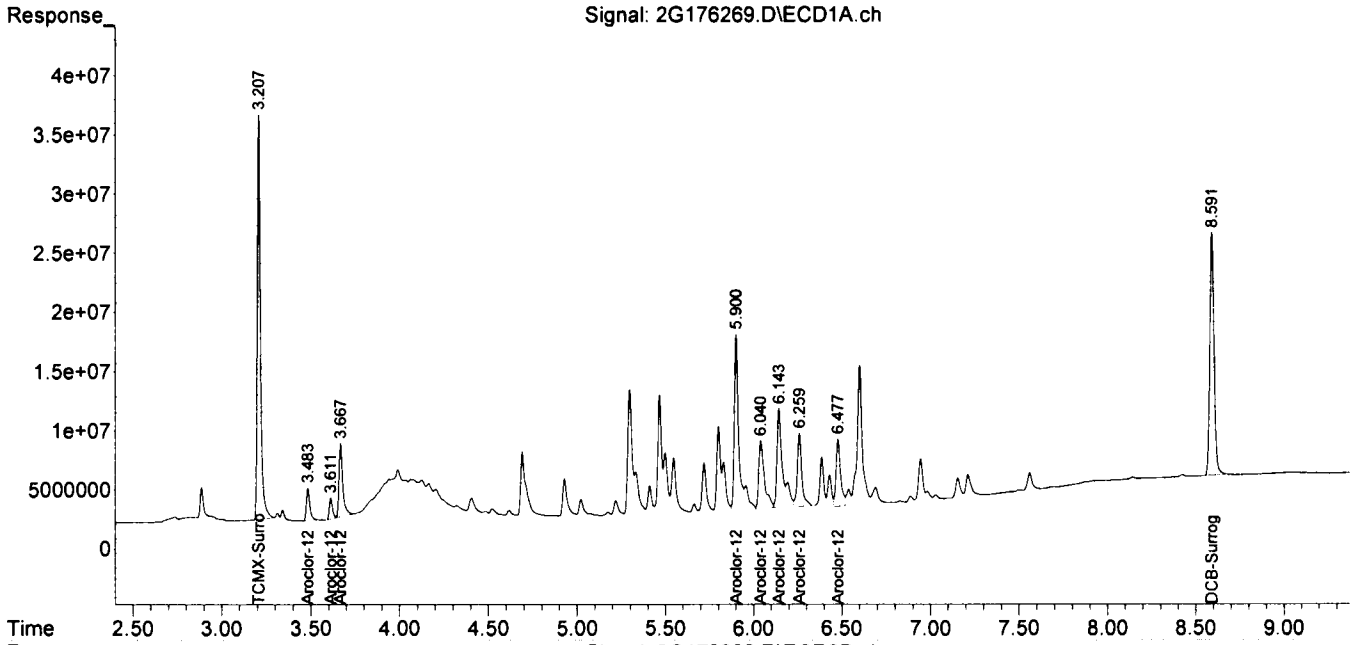
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

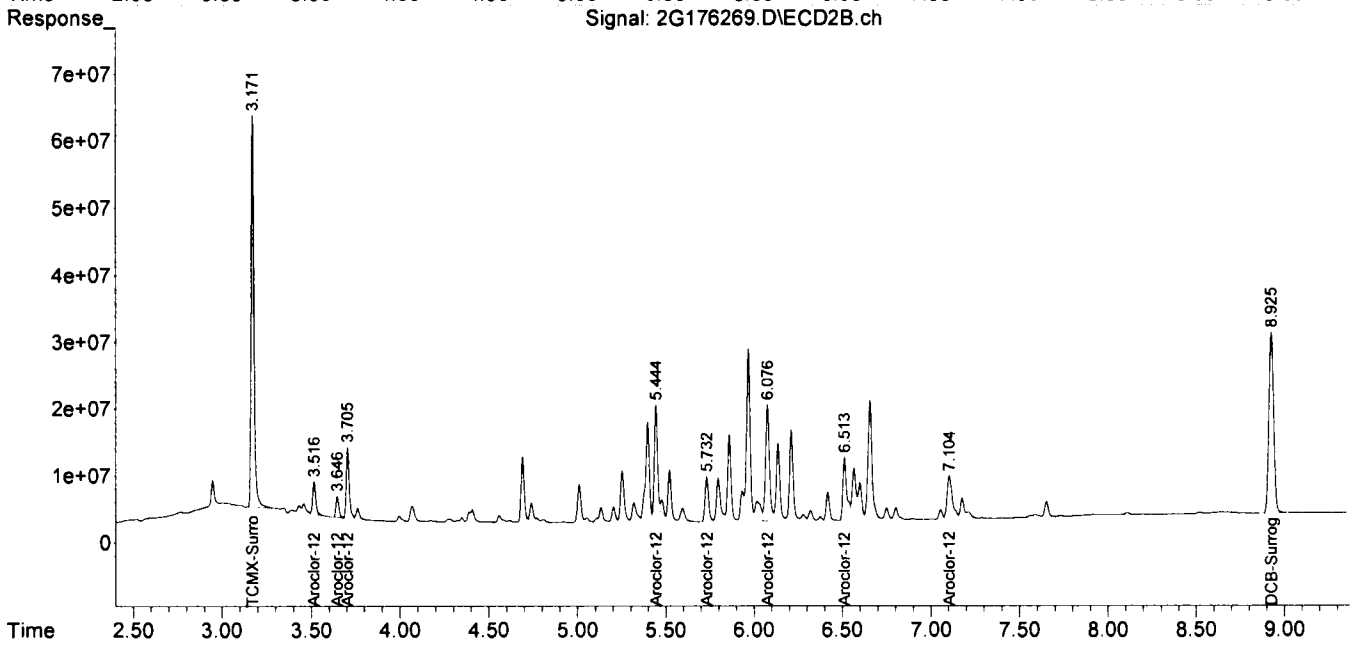
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176269.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 12:17
Operator : AH/PR/KM
Sample : CAL 2154@500PPB
Misc : S,PCB
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:02:36 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Fri Apr 28 16:11:06 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176270.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 12:29
Operator : AH/PR/KM
Sample : CAL 1262@500PPB
Misc : S,PCB
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:03:54 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.208	3.171	418.1E6	622.0E6	51.048	49.297
2)Aroclor-1016 {1}	0.000	0.000	0	0	N.D. d	N.D. d
3)Aroclor-1016 {2}	0.000	0.000	0	0	N.D. d	N.D. d
4)Aroclor-1016 {3}	0.000	0.000	0	0	N.D. d	N.D. d
5)Aroclor-1016 {4}	0.000	0.000	0	0	N.D. d	N.D. d
6)Aroclor-1016 {5}	0.000	0.000	0	0	N.D. d	N.D. d
7)Aroclor-1260 {1}	0.000	0.000	0	0	N.D. d	N.D. d
8)Aroclor-1260 {2}	0.000	0.000	0	0	N.D. d	N.D. d
9)Aroclor-1260 {3}	0.000	0.000	0	0	N.D. d	N.D. d
10)Aroclor-1260 {4}	0.000	0.000	0	0	N.D. d	N.D. d
11)Aroclor-1260 {5}	0.000	0.000	0	0	N.D. d	N.D. d
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	6.260	6.566	159.5E6	196.9E6	469.043	488.516m
36)Aroclor-1262 {2}	7.497	7.560	149.0E6	252.9E6	461.926	496.678m
37)Aroclor-1262 {3}	7.553	7.651	306.5E6	253.0E6	467.234	477.413
38)Aroclor-1262 {4}	8.143	8.111	144.0E6	279.5E6	485.581	471.782
39)Aroclor-1262 {5}	8.422	8.520	46687162	64979697	481.530	471.409
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176270.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 12:29
Operator : AH/PR/KM
Sample : CAL 1262@500PPB
Misc : S,PCB
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:03:54 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	8.592	8.927	348.7E6	518.0E6	48.862	49.791

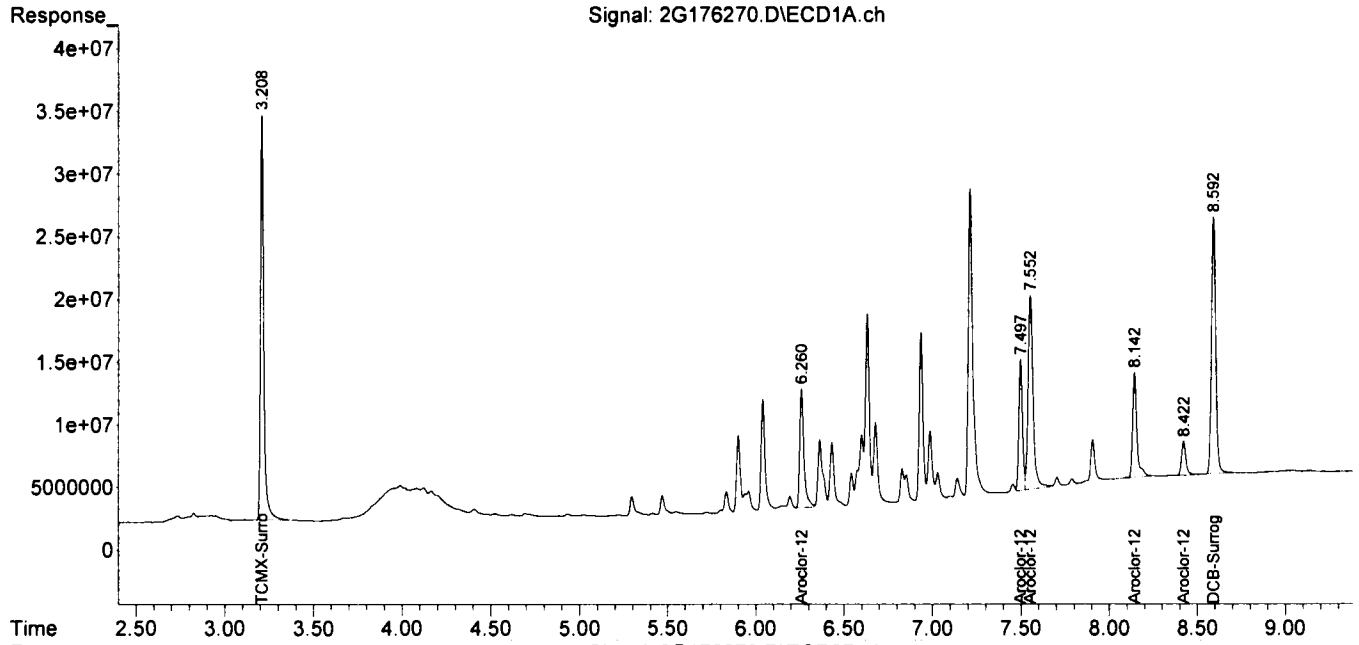
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

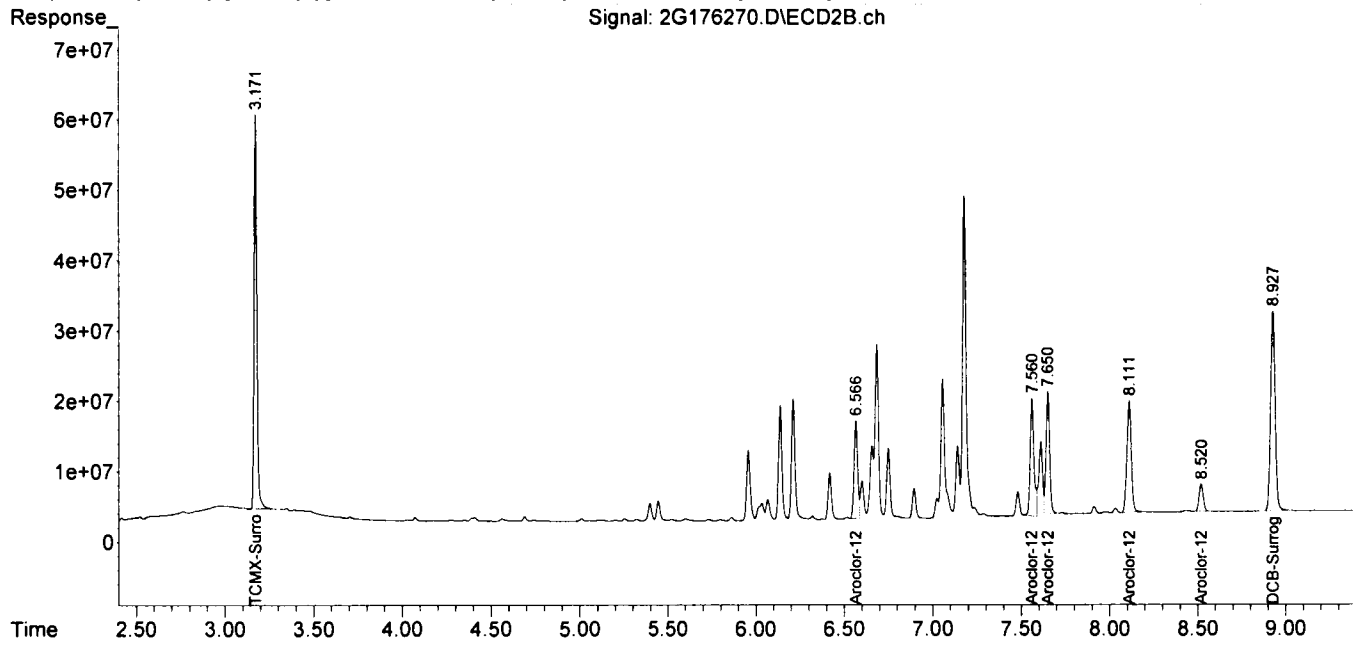
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\05-17-23\
Data File : 2G176270.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2023 12:29
Operator : AH/PR/KM
Sample : CAL 1262@500PPB
Misc : S,PCB
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 17 16:03:54 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 15:26:19 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





TxtDfile: 2G176281.D ICV FORM Date/Time: 05/17/23 16:57

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
TCMX-Surrogate	1	0		99.7	100	100		70	130
TCMX-Surrogate	2	0		97.68	100	98		70	130
Aroclor-1016	2	1		988.08	1000	99		70	130
Aroclor-1016	1	1		1052.04	1000	105		70	130
Aroclor-1016	2	2		963.86	1000	96		70	130
Aroclor-1016	1	2		978.4	1000	98		70	130
Aroclor-1016	2	3		984.28	1000	98		70	130
Aroclor-1016	1	3		989.4	1000	99		70	130
Aroclor-1016	2	4		969.2	1000	97		70	130
Aroclor-1016	1	4		970.22	1000	97		70	130
Aroclor-1016	2	5		997	1000	100		70	130
Aroclor-1016	1	5		953.18	1000	95		70	130
Aroclor-1260	2	1		954.28	1000	95		70	130
Aroclor-1260	1	1		965.48	1000	97		70	130
Aroclor-1260	2	2		970.05	1000	97		70	130
Aroclor-1260	1	2		981.69	1000	98		70	130
Aroclor-1260	1	3		958.07	1000	96		70	130
Aroclor-1260	2	3		989.2	1000	99		70	130
Aroclor-1260	2	4		1001.14	1000	100		70	130
Aroclor-1260	1	4		994.67	1000	99		70	130
Aroclor-1260	2	5		990.94	1000	99		70	130
Aroclor-1260	1	5		1009.07	1000	101		70	130
DCB-Surrogate	1	0		97.61	100	98		70	130
DCB-Surrogate	2	0		98.07	100	98		70	130

Form7
Continuing Calibration

Method: EPA 8082A

Data File:				2G178392.D			2G178414.D										
Method:				8082			8082										
Calibration Name:				CAL 1660@1000PP			CAL 1660@1000PP										
Calibration Date/Time				06/30/23 11:53			06/30/23 17:34										
					Conc			Conc			Conc			Conc			Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
TCMX-Surrogate	20	1	0	99.77	100	0.2	104.1	100	4.1									
Aroclor-1016	20	1	1	1003	1000	0.3	1038	1000	3.8									
Aroclor-1016	20	1	2	968.0	1000	3.2	991.1	1000	0.9									
Aroclor-1016	20	1	3	1017	1000	1.7	1064	1000	6.4									
Aroclor-1016	20	1	4	984.4	1000	1.6	981.9	1000	1.8									
Aroclor-1016	20	1	5	982.4	1000	1.8	1001	1000	0.1									
Aroclor-1260	20	1	1	936.6	1000	6.3	935.4	1000	6.5									
Aroclor-1260	20	1	2	941.7	1000	5.8	963.8	1000	3.6									
Aroclor-1260	20	1	3	892.5	1000	10.8	831.4	1000	16.9									
Aroclor-1260	20	1	4	959.1	1000	4.1	1007	1000	0.7									
Aroclor-1260	20	1	5	948.2	1000	5.2	1000	1000	0.0									
DCB-Surrogate	20	1	0	81.62	100	18.4	104.7	100	4.7									
Average Difference	20	1	0			4.9			4.1									
TCMX-Surrogate	20	2	0	101.3	100	1.3	98.86	100	1.1									
Aroclor-1016	20	2	1	947.4	1000	5.3	940	1000	6.0									
Aroclor-1016	20	2	2	957.3	1000	4.3	922.5	1000	7.8									
Aroclor-1016	20	2	3	1009	1000	0.9	913.9	1000	8.6									
Aroclor-1016	20	2	4	960.6	1000	3.9	888.7	1000	11.1									
Aroclor-1016	20	2	5	994.3	1000	0.6	923.7	1000	7.6									
Aroclor-1260	20	2	1	917.1	1000	8.3	892.6	1000	10.7									
Aroclor-1260	20	2	2	917	1000	8.3	899.7	1000	10.0									
Aroclor-1260	20	2	3	903.4	1000	9.7	939.9	1000	6.0									
Aroclor-1260	20	2	4	924.0	1000	7.6	1036	1000	3.6									
Aroclor-1260	20	2	5	854.2	1000	14.6	1046	1000	4.6									
DCB-Surrogate	20	2	0	79.51	100	20.5	105.1	100	5.1									
Average Difference	20	2	0			7.1			6.9									

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8082A

Data File:	2G176271.D	2G178392.D
Calibration Name:	CAL 1660@50PPB	CAL 1660@1000PPB
Calibration Date/Time	5/17/2023 12:41:00 PM	6/30/2023 11:53:00 AM

Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
TCMX-Surrogate	1	0	3.21	(3.15 - 3.27)	3.21	(3.15 - 3.27)						
Aroclor-1016	1	1	3.67	(3.63 - 3.71)	3.66	(3.62 - 3.70)						
Aroclor-1016	1	2	3.99	(3.95 - 4.03)	3.99	(3.95 - 4.03)						
Aroclor-1016	1	3	4.41	(4.37 - 4.45)	4.40	(4.36 - 4.44)						
Aroclor-1016	1	4	4.62	(4.58 - 4.66)	4.61	(4.57 - 4.65)						
Aroclor-1016	1	5	4.69	(4.65 - 4.73)	4.69	(4.65 - 4.73)						
Aroclor-1260	1	1	6.04	(6.00 - 6.08)	6.04	(6.00 - 6.08)						
Aroclor-1260	1	2	6.26	(6.22 - 6.30)	6.26	(6.22 - 6.30)						
Aroclor-1260	1	3	6.88	(6.64 - 6.72)	6.67	(6.83 - 6.71)						
Aroclor-1260	1	4	6.94	(6.90 - 6.98)	6.93	(6.89 - 6.97)						
Aroclor-1260	1	5	7.56	(7.52 - 7.80)	7.55	(7.51 - 7.59)						
Aroclor-1221	1	1	3.48	(3.44 - 3.52)								
Aroclor-1221	1	2	3.61	(3.57 - 3.65)								
Aroclor-1221	1	3	3.67	(3.63 - 3.71)								
Aroclor-1232	1	1	3.87	(3.63 - 3.71)								
Aroclor-1232	1	2	3.99	(3.95 - 4.03)								
Aroclor-1232	1	3	4.41	(4.37 - 4.45)								
Aroclor-1232	1	4	4.62	(4.58 - 4.86)								
Aroclor-1232	1	5	4.69	(4.65 - 4.73)								
Aroclor-1242	1	1	3.67	(3.63 - 3.71)								
Aroclor-1242	1	2	3.99	(3.95 - 4.03)								
Aroclor-1242	1	3	4.41	(4.37 - 4.45)								
Aroclor-1242	1	4	4.62	(4.58 - 4.66)								
Aroclor-1242	1	5	4.93	(4.89 - 4.97)								
Aroclor-1248	1	1	3.99	(3.95 - 4.03)								
Aroclor-1248	1	2	4.40	(4.36 - 4.44)								
Aroclor-1248	1	3	4.69	(4.65 - 4.73)								
Aroclor-1248	1	4	4.93	(4.89 - 4.97)								
Aroclor-1248	1	5	5.02	(4.98 - 5.06)								
Aroclor-1254	1	1	5.90	(5.86 - 5.94)								
Aroclor-1254	1	2	6.04	(6.00 - 6.08)								
Aroclor-1254	1	3	6.14	(6.10 - 6.18)								
Aroclor-1254	1	4	6.26	(6.22 - 6.30)								
Aroclor-1254	1	5	6.48	(6.44 - 6.52)								
Aroclor-1262	1	1	6.26	(6.22 - 6.30)								
Aroclor-1262	1	2	7.50	(7.46 - 7.54)								
Aroclor-1262	1	3	7.55	(7.51 - 7.59)								
Aroclor-1262	1	4	8.14	(8.10 - 8.18)								
Aroclor-1262	1	5	8.42	(8.38 - 8.46)								
Aroclor-1268	1	1	6.93	(6.89 - 6.97)								
Aroclor-1268	1	2	7.21	(7.17 - 7.25)								
Aroclor-1268	1	3	7.70	(7.66 - 7.74)								
Aroclor-1268	1	4	7.79	(7.75 - 7.83)								
Aroclor-1268	1	5	8.42	(8.38 - 8.46)								
DCB-Surrogate	1	0	8.59	(8.53 - 8.65)	8.59	(8.53 - 8.65)						
TCMX-Surrogate	2	0	3.17	(3.11 - 3.23)	3.17	(3.11 - 3.23)						
Aroclor-1016	2	1	3.71	(3.67 - 3.75)	3.70	(3.66 - 3.74)						
Aroclor-1016	2	2	4.07	(4.03 - 4.11)	4.07	(4.03 - 4.11)						
Aroclor-1016	2	3	4.41	(4.37 - 4.45)	4.41	(4.37 - 4.45)						
Aroclor-1016	2	4	4.56	(4.52 - 4.60)	4.56	(4.52 - 4.60)						
Aroclor-1016	2	5	4.69	(4.65 - 4.73)	4.69	(4.65 - 4.73)						
Aroclor-1260	2	1	6.14	(6.10 - 6.18)	8.14	(6.10 - 6.18)						
Aroclor-1260	2	2	6.21	(6.17 - 6.25)	6.21	(6.17 - 6.25)						
Aroclor-1260	2	3	7.05	(7.01 - 7.09)	7.05	(7.01 - 7.09)						
Aroclor-1260	2	4	7.65	(7.61 - 7.69)	7.65	(7.61 - 7.69)						
Aroclor-1260	2	5	8.11	(8.07 - 8.15)	8.11	(8.07 - 8.15)						
Aroclor-1221	2	1	3.52	(3.48 - 3.56)								
Aroclor-1221	2	2	3.65	(3.61 - 3.69)								
Aroclor-1221	2	3	3.71	(3.67 - 3.75)								
Aroclor-1232	2	1	3.71	(3.67 - 3.75)								
Aroclor-1232	2	2	4.07	(4.03 - 4.11)								
Aroclor-1232	2	3	4.41	(4.37 - 4.45)								
Aroclor-1232	2	4	4.69	(4.65 - 4.73)								
Aroclor-1232	2	5	4.74	(4.70 - 4.78)								
Aroclor-1242	2	1	3.71	(3.67 - 3.75)								
Aroclor-1242	2	2	4.07	(4.03 - 4.11)								
Aroclor-1242	2	3	4.41	(4.37 - 4.45)								
Aroclor-1242	2	4	4.56	(4.52 - 4.60)								
Aroclor-1242	2	5	5.01	(4.97 - 5.05)								
Aroclor-1248	2	1	4.07	(4.03 - 4.11)								
Aroclor-1248	2	2	4.41	(4.37 - 4.45)								
Aroclor-1248	2	3	4.69	(4.65 - 4.73)								
Aroclor-1248	2	4	5.01	(4.97 - 5.05)								
Aroclor-1248	2	5	5.25	(5.21 - 5.29)								
Aroclor-1254	2	1	5.44	(5.40 - 5.48)								
Aroclor-1254	2	2	5.73	(5.69 - 5.77)								
Aroclor-1254	2	3	6.08	(6.04 - 6.12)								
Aroclor-1254	2	4	6.51	(6.47 - 6.55)								
Aroclor-1254	2	5	7.10	(7.06 - 7.14)								
Aroclor-1262	2	1	6.57	(6.53 - 6.61)								
Aroclor-1262	2	2	7.56	(7.52 - 7.60)								
Aroclor-1262	2	3	7.65	(7.61 - 7.69)								
Aroclor-1262	2	4	8.11	(8.07 - 8.15)								
Aroclor-1262	2	5	8.52	(8.48 - 8.56)								
Aroclor-1268	2	1	7.14	(7.10 - 7.18)								
Aroclor-1268	2	2	7.18	(7.14 - 7.22)								
Aroclor-1268	2	3	7.91	(7.87 - 7.95)								
Aroclor-1268	2	4	8.03	(7.99 - 8.07)								
Aroclor-1268	2	5	8.52	(8.48 - 8.56)								
DCB-Surrogate	2	0	8.93	(8.87 - 8.99)	8.92	(8.86 - 8.98)						

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-30-23\
Data File : 2G178392.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jun 2023 11:53
Operator : AH/PR/KM
Sample : CAL 1660@1000PPB
Misc : S,PCB:0.5
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 12:03:47 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.208	3.171	844.3E6	1299.3E6	99.773	101.318
2)Aroclor-1016 {1}	3.665	3.705	129.1E6	175.6E6	1003.339	947.419
3)Aroclor-1016 {2}	3.988	4.072	302.9E6	451.1E6	968.035m	957.293
4)Aroclor-1016 {3}	4.404	4.408	630.7E6	642.7E6	1017.060	1008.904
5)Aroclor-1016 {4}	4.614	4.559	196.8E6	320.6E6	984.356	960.582
6)Aroclor-1016 {5}	4.688	4.688	136.9E6	430.4E6	982.427	994.270
7)Aroclor-1260 {1}	6.035	6.137	360.1E6	589.1E6	936.578	917.080
8)Aroclor-1260 {2}	6.256	6.211	422.2E6	616.6E6	941.664	916.974
9)Aroclor-1260 {3}	6.674	7.055	171.9E6	416.1E6	892.497	903.394m
10)Aroclor-1260 {4}	6.931	7.651	307.5E6	502.7E6	959.081	924.040
11)Aroclor-1260 {5}	7.552	8.110	486.1E6	275.7E6	948.236	854.185
45)DCB-Surrogate	8.585	8.923	583.1E6	846.2E6	81.618	79.507m

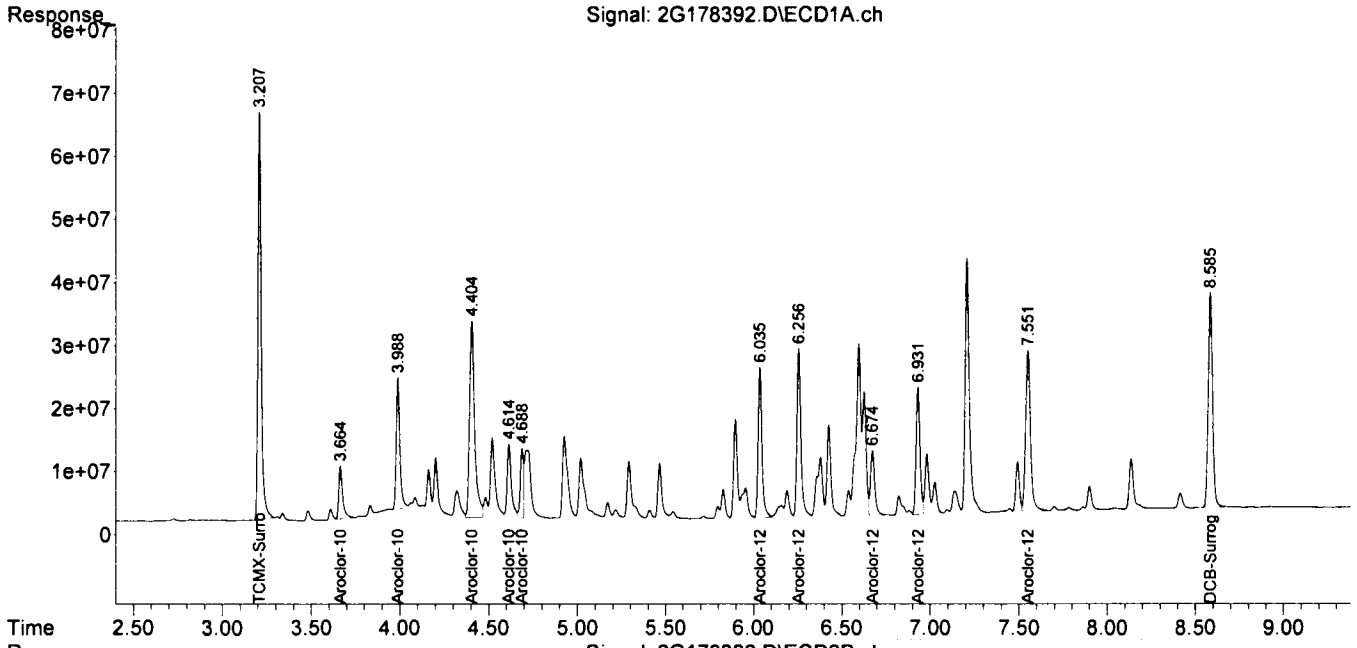
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

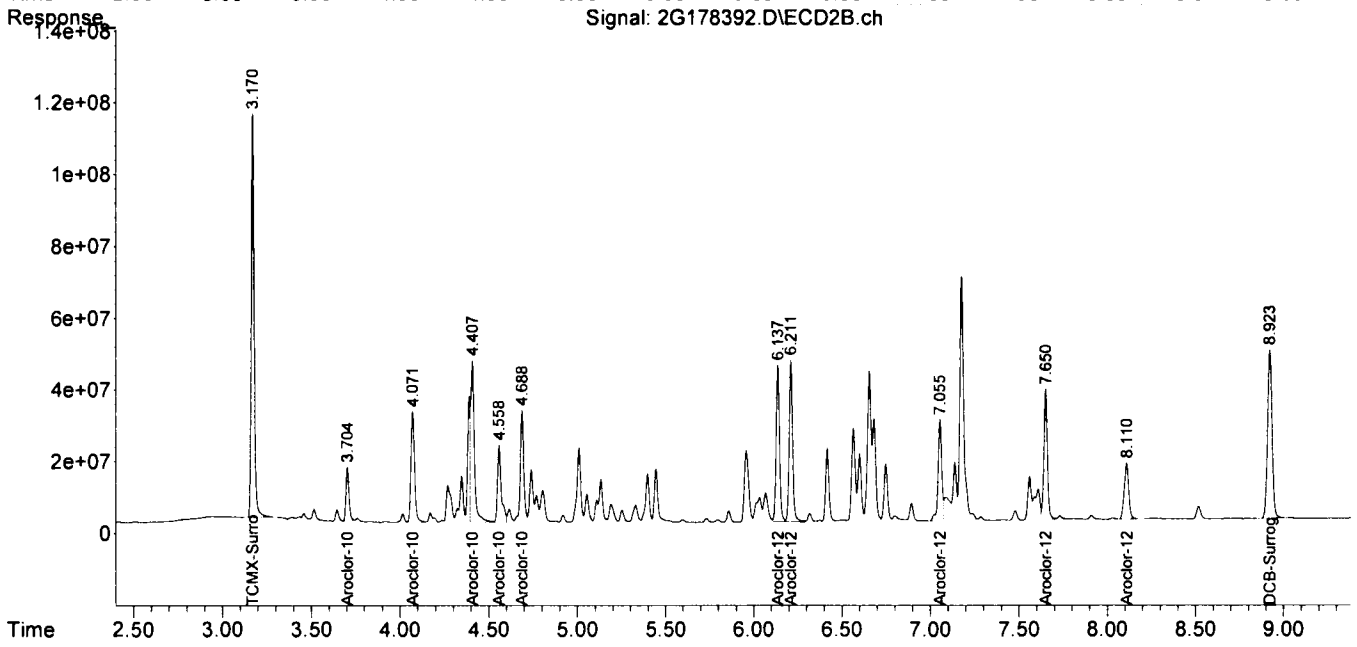
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-30-23\
Data File : 2G178392.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jun 2023 11:53
Operator : AH/PR/KM
Sample : CAL 1660@1000PPB
Misc : S,PCB:0.5
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 12:03:47 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-30-23\
Data File : 2G178414.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jun 2023 17:34
Operator : AH/PR/KM
Sample : CAL 1660@1000PPB
Misc : S,PCB:0.5
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 17:54:39 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.213	3.168	880.7E6	1267.8E6	104.081	98.861
2)Aroclor-1016 {1}	3.672	3.702	133.6E6	174.2E6	1038.095	939.988
3)Aroclor-1016 {2}	3.997	4.069	310.1E6	434.7E6	991.143	922.499
4)Aroclor-1016 {3}	4.413	4.405	659.8E6	582.1E6	1063.901	913.859
5)Aroclor-1016 {4}	4.624	4.556	196.3E6	296.6E6	981.910	888.727
6)Aroclor-1016 {5}	4.699	4.687	139.6E6	399.8E6	1001.406	923.712
7)Aroclor-1260 {1}	6.049	6.139	359.6E6	573.4E6	935.427	892.565
8)Aroclor-1260 {2}	6.269	6.213	432.1E6	604.9E6	963.773	899.646
9)Aroclor-1260 {3}	6.689	7.057	160.2E6	432.9E6	831.349	939.909m
10)Aroclor-1260 {4}	6.945	7.655	322.8E6	563.7E6	1006.653	1036.206
11)Aroclor-1260 {5}	7.567	8.114	512.9E6	337.5E6	1000.452	1045.810m
45)DCB-Surrogate	8.603	8.931	748.0E6	1118.5E6	104.697m	105.097

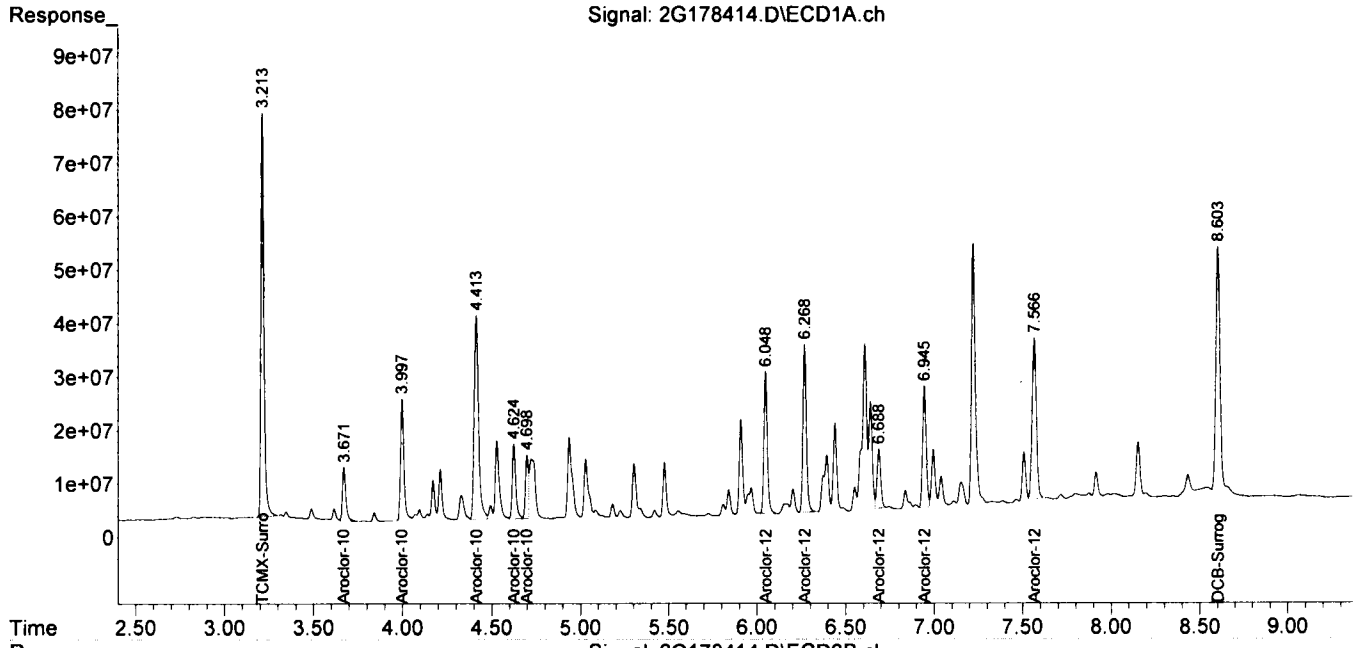
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

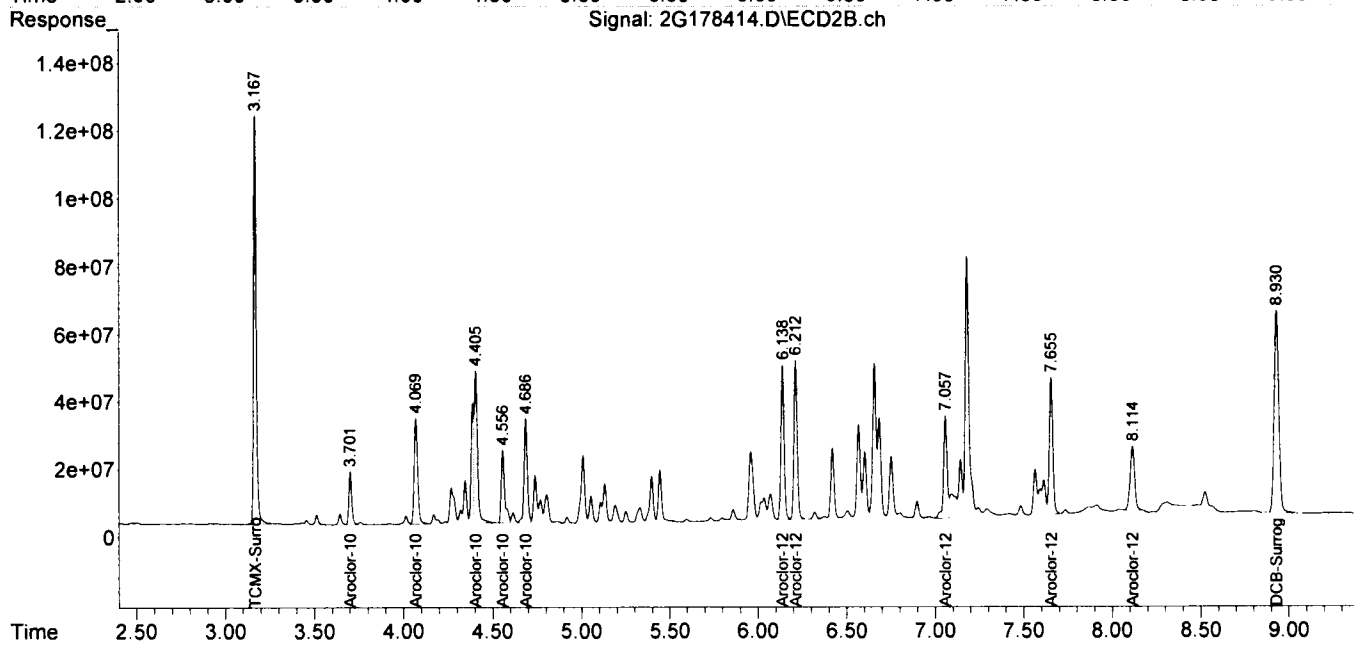
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-30-23\
Data File : 2G178414.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jun 2023 17:34
Operator : AH/PR/KM
Sample : CAL 1660@1000PPB
Misc : S,PCB:0.5
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 17:54:39 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





GC PCB Data
Raw QC Data

Form1

ORGANICS PCB REPORT

Sample Number: WMB109472
Client Id:
Data File: 2G178394.D
Analysis Date: 06/30/23 12:17
Date Rec/Extracted: NA-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U				

Worksheet #: 700848

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-30-23\
Data File : 2G178394.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jun 2023 12:17
Operator : AH/PR/KM
Sample : WMB109472
Misc : A,PCB
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 12:27:40 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
	Target Compounds						
1)	TCMX-Surrogate	3.209	3.172	883.6E6	1326.9E6	104.421	103.475
45)	DCB-Surrogate	8.586	8.923	624.6E6	894.4E6	87.413	84.040

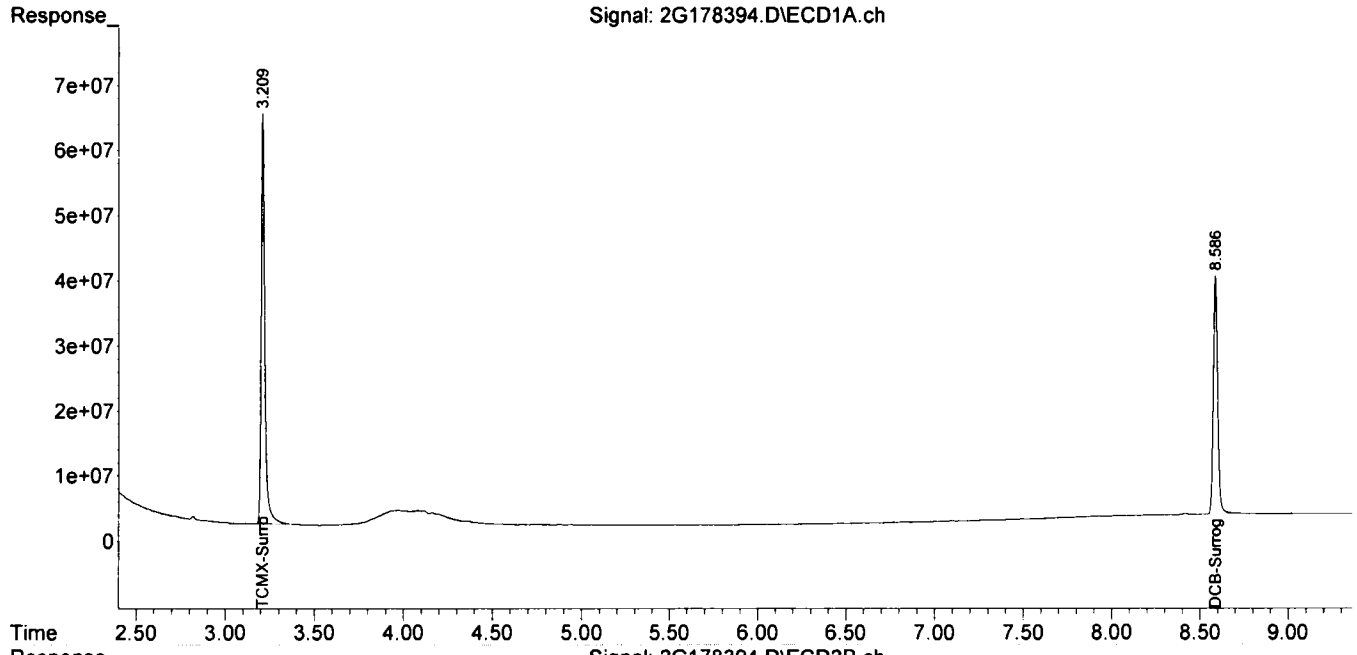
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

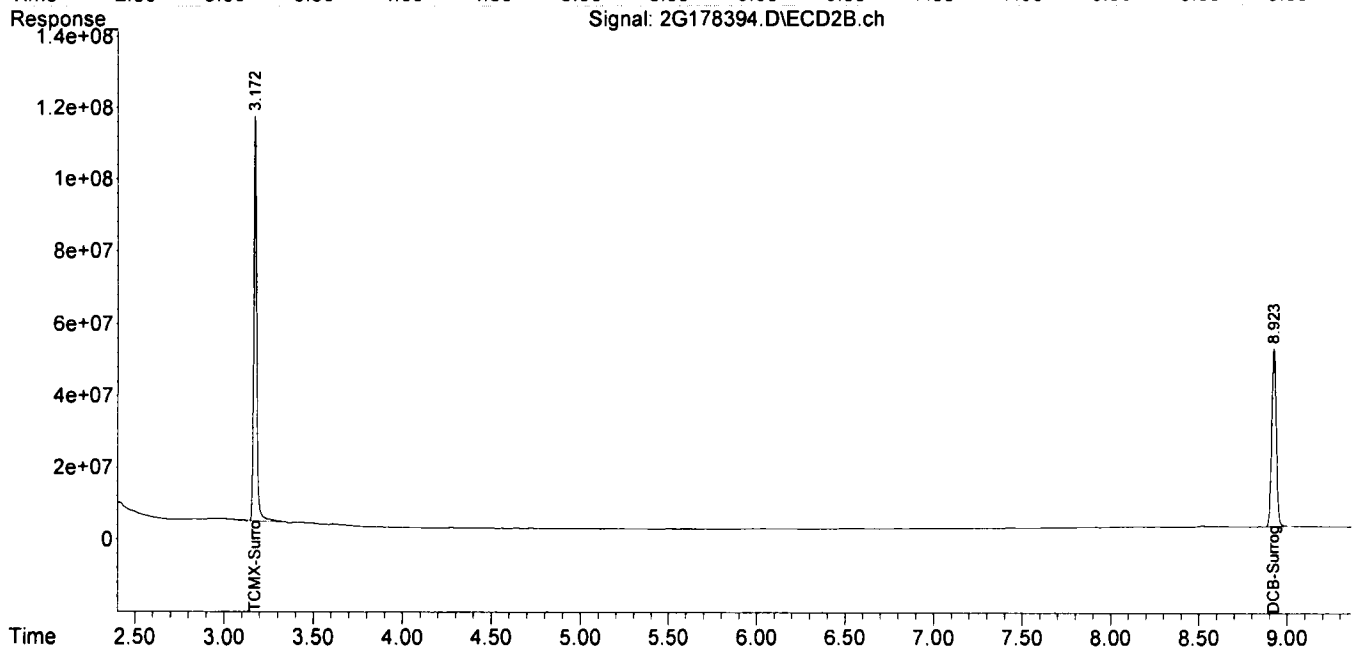
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-30-23\
Data File : 2G178394.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jun 2023 12:17
Operator : AH/PR/KM
Sample : WMB109472
Misc : A,PCB
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 12:27:40 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Form3
Recovery Data Laboratory Limits
QC Batch: WMB109472

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2G178393.D	WMB109472(MS)	6/30/2023 12:06:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous Units: ug/L QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	2	1401.528	0	1000	140	22	155
Aroclor-1260 -Total	2	1474.365	0	1000	147	34	147

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-30-23\
Data File : 2G178393.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jun 2023 12:06
Operator : AH/PR/KM
Sample : WMB109472(MS)
Misc : A,PCB
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 20 14:58:44 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.210	3.172	830.3E6	1259.6E6	98.118	98.221
2)Aroclor-1016 {1}	3.666	3.705	162.7E6	249.6E6	1264.043m	1347.056m
3)Aroclor-1016 {2}	3.991	4.072	413.7E6	640.9E6	1322.247m	1360.029
4)Aroclor-1016 {3}	4.406	4.409	873.6E6	929.4E6	1408.683	1458.983
5)Aroclor-1016 {4}	4.617	4.560	251.7E6	465.2E6	1259.175m	1393.980
6)Aroclor-1016 {5}	4.691	4.689	189.1E6	626.6E6	1356.854	1447.591
7)Aroclor-1260 {1}	6.037	6.137	587.1E6	932.7E6	1527.222	1451.948m
8)Aroclor-1260 {2}	6.258	6.211	705.8E6	985.5E6	1574.071	1465.590m
9)Aroclor-1260 {3}	6.676	7.055	301.8E6	699.6E6	1566.519	1518.902m
11)Aroclor-1260 {5}	7.554	8.110	838.6E6	471.5E6	1635.776	1461.022
45)DCB-Surrogate	8.588	8.924	610.8E6	877.9E6	85.489	82.488

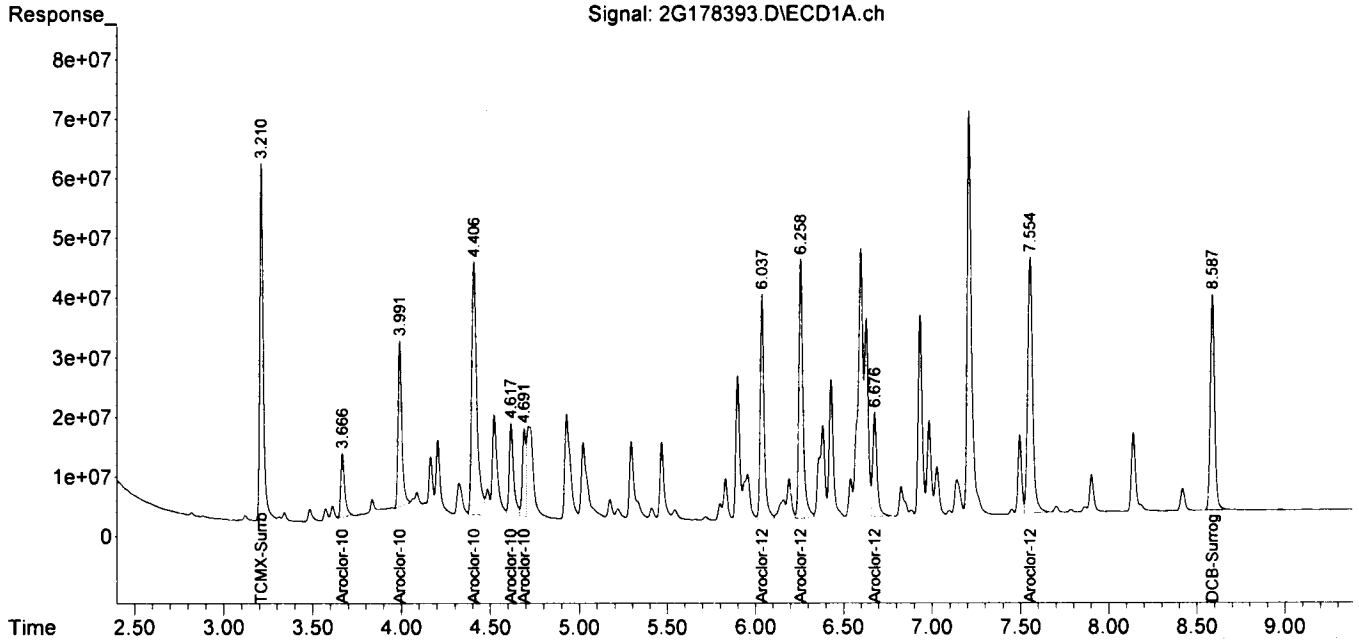
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

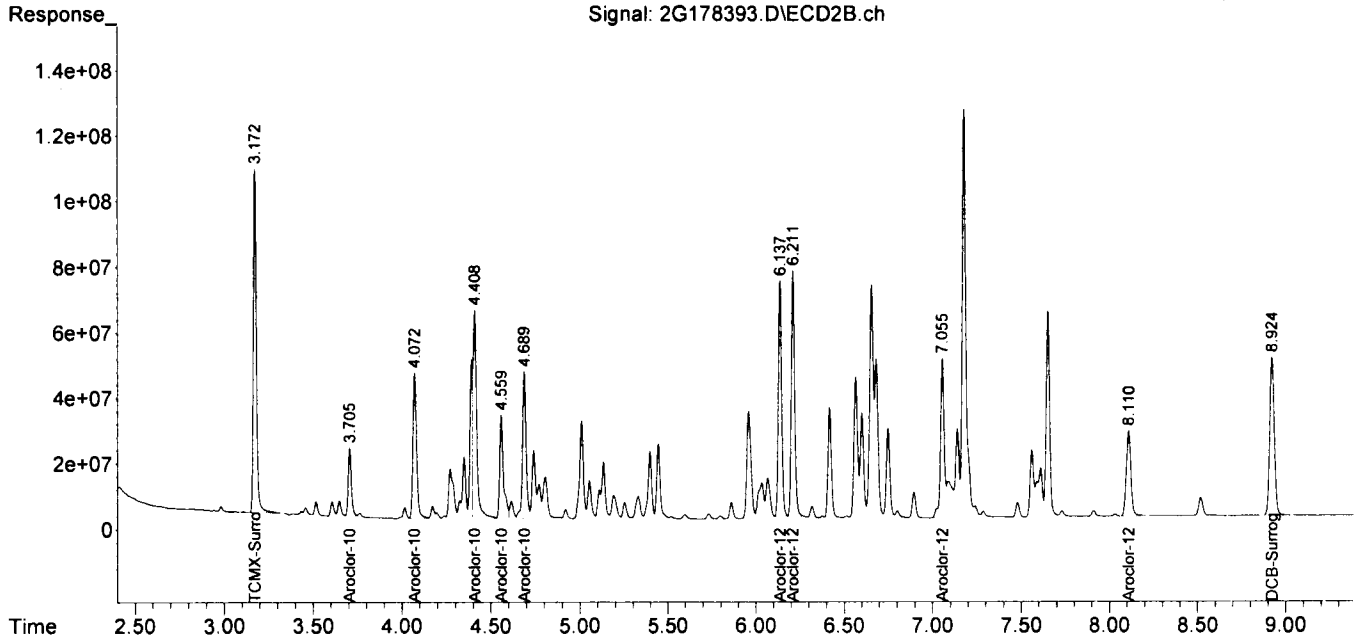
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-30-23\
Data File : 2G178393.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jun 2023 12:06
Operator : AH/PR/KM
Sample : WMB109472(MS)
Misc : A,PCB
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 20 14:58:44 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Form3
Recovery Data Laboratory Limits
QC Batch: WMB109472

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2G178395.D	AD38798-004(MS:AD38798-00	6/30/2023 12:29:00 PM
Non Spike(If applicable):	2G178397.D	AD38798-002	6/30/2023 12:53:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	2	1450.87	0	1000	145	22	155
Aroclor-1260 -Total	2	1568.722	0	1000	157 *	34	147

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2G178396.D	AD38798-005(MSD:AD38798-0	6/30/2023 12:41:00 PM
Non Spike(If applicable):	2G178397.D	AD38798-002	6/30/2023 12:53:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	2	1540.332	0	1000	154	22	155
Aroclor-1260 -Total	2	1610.72	0	1000	161 *	34	147

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form

Form3
RPD Data Laboratory Limits
QC Batch: WMB109472

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2G178396.D	AD38798-005(MSD:AD38798-0	6/30/2023 12:41:00 PM
Duplicate(If applicable):	2G178395.D	AD38798-004(MS:AD38798-00	6/30/2023 12:29:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Aroclor-1016 -Total	2	1540.332	1450.87	6	71
Aroclor-1260 -Total	2	1610.72	1568.722	2.6	49

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated
Bold and underline - Indicates the compounds reported on form1

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-30-23\
Data File : 2G178395.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jun 2023 12:29
Operator : AH/PR/KM
Sample : AD38798-004(MS:AD38798-002) (Sig #1); AD38798-004(MS) (Sig #2)
Misc : A,PCB
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 12:44:16 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.209	3.172	819.4E6	1272.1E6	96.832	99.201
2)Aroclor-1016 {1}	3.666	3.706	180.5E6	263.2E6	1402.923	1420.454
3)Aroclor-1016 {2}	3.989	4.072	426.0E6	661.8E6	1361.522m	1404.265
4)Aroclor-1016 {3}	4.405	4.409	900.6E6	954.8E6	1452.270m	1498.846
5)Aroclor-1016 {4}	4.615	4.559	251.2E6	480.6E6	1256.662m	1440.044
6)Aroclor-1016 {5}	4.689	4.689	183.4E6	645.3E6	1315.645m	1490.740
7)Aroclor-1260 {1}	6.036	6.138	591.0E6	987.9E6	1537.310m	1537.741
8)Aroclor-1260 {2}	6.257	6.211	723.6E6	1056.6E6	1613.886	1571.371
9)Aroclor-1260 {3}	6.675	7.055	308.2E6	717.9E6	1599.544	1558.682
10)Aroclor-1260 {4}	6.932	7.652	535.5E6	891.6E6	1670.289	1638.852
11)Aroclor-1260 {5}	7.553	8.111	867.2E6	496.0E6	1691.547	1536.972
45)DCB-Surrogate	8.587	8.925	739.6E6	1063.3E6	103.509	99.910

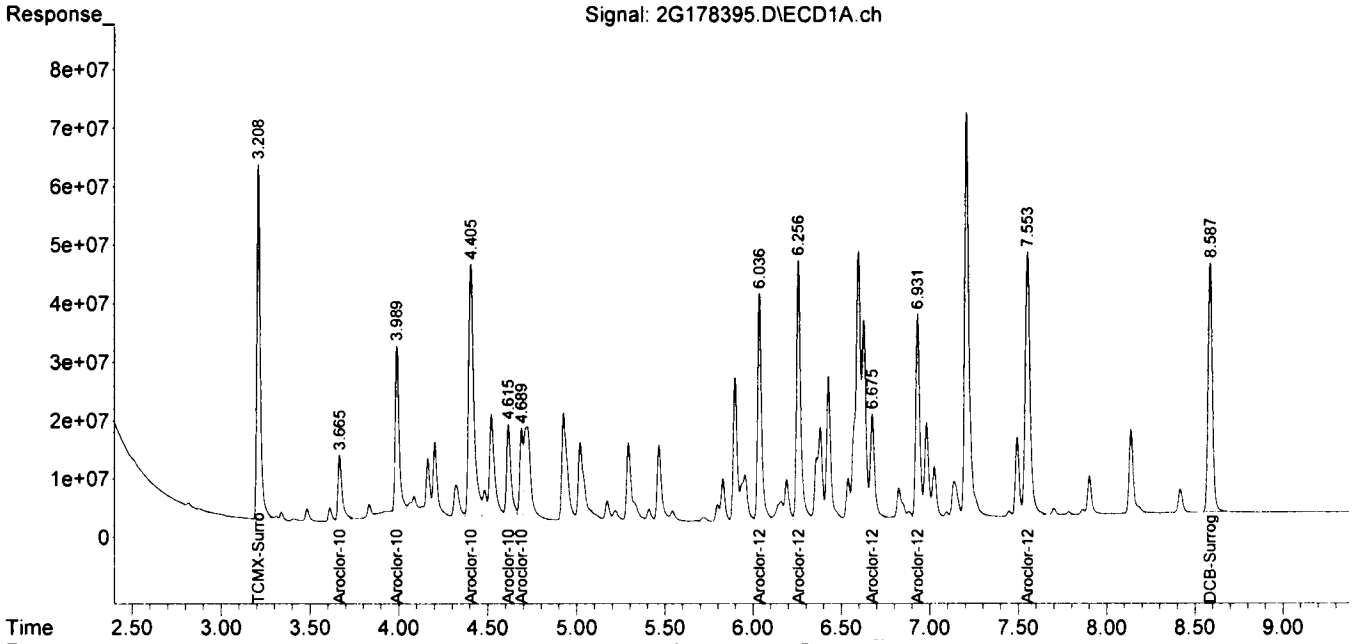
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

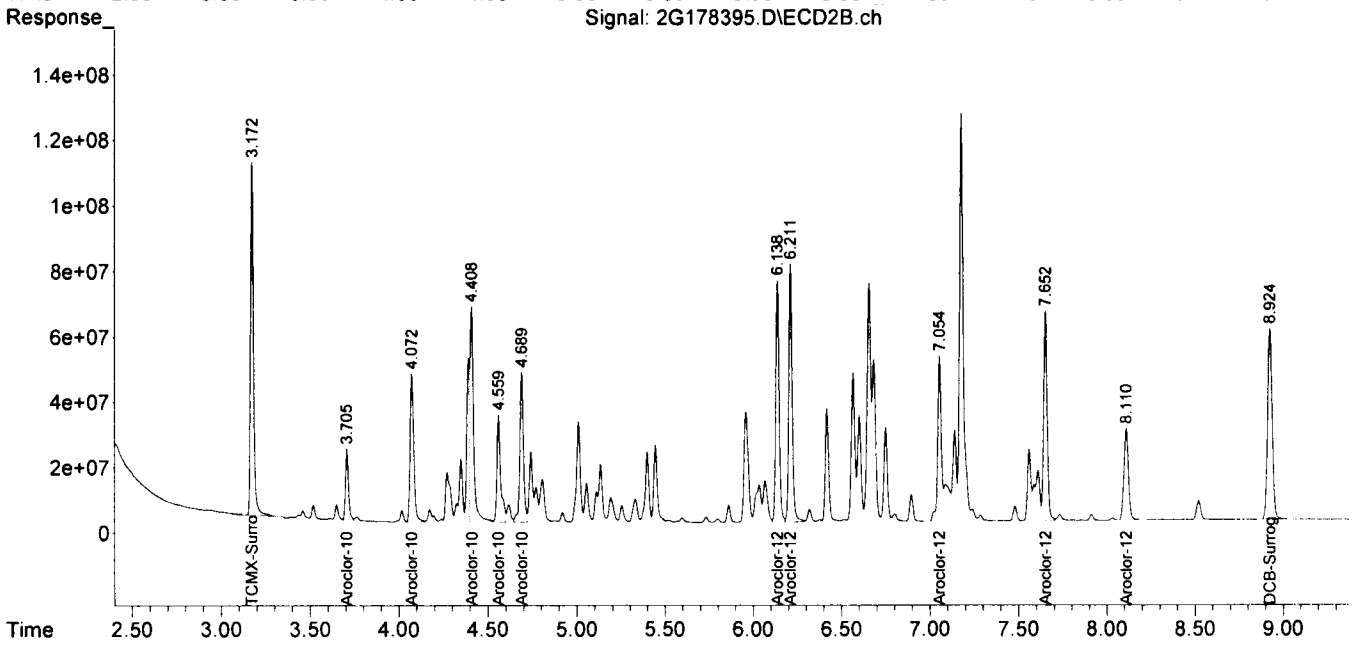
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-30-23\
Data File : 2G178395.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jun 2023 12:29
Operator : AH/PR/KM
Sample : AD38798-004(MS:AD38798-002) (Sig #1); AD38798-004(MS) (Sig #2)
Misc : A,PCB
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 12:44:16 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-30-23\
Data File : 2G178396.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jun 2023 12:41
Operator : AH/PR/KM
Sample : AD38798-005(MSD:AD38798-002) (Sig #1); AD38798-005(MSD) (Sig #2)
Misc : A,PCB
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 13:08:35 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.208	3.172	837.2E6	1268.4E6	98.937	98.914
2)Aroclor-1016 {1}	3.665	3.705	181.2E6	281.0E6	1407.734m	1516.320
3)Aroclor-1016 {2}	3.988	4.072	446.0E6	702.5E6	1425.464m	1490.635
4)Aroclor-1016 {3}	4.404	4.408	944.9E6	1001.9E6	1523.679m	1572.834
5)Aroclor-1016 {4}	4.615	4.559	269.1E6	511.2E6	1346.064m	1531.893
6)Aroclor-1016 {5}	4.689	4.689	191.3E6	688.2E6	1372.136m	1589.977
7)Aroclor-1260 {1}	6.036	6.138	635.1E6	1031.9E6	1651.921	1606.359
8)Aroclor-1260 {2}	6.256	6.212	752.7E6	1098.5E6	1678.740	1633.639
9)Aroclor-1260 {3}	6.675	7.054	320.9E6	748.2E6	1665.428	1624.424m
10)Aroclor-1260 {4}	6.931	7.651	551.0E6	904.5E6	1718.532	1662.595
11)Aroclor-1260 {5}	7.553	8.111	880.1E6	492.7E6	1716.738	1526.591
45)DCB-Surrogate	8.587	8.925	720.5E6	1034.4E6	100.843	97.195

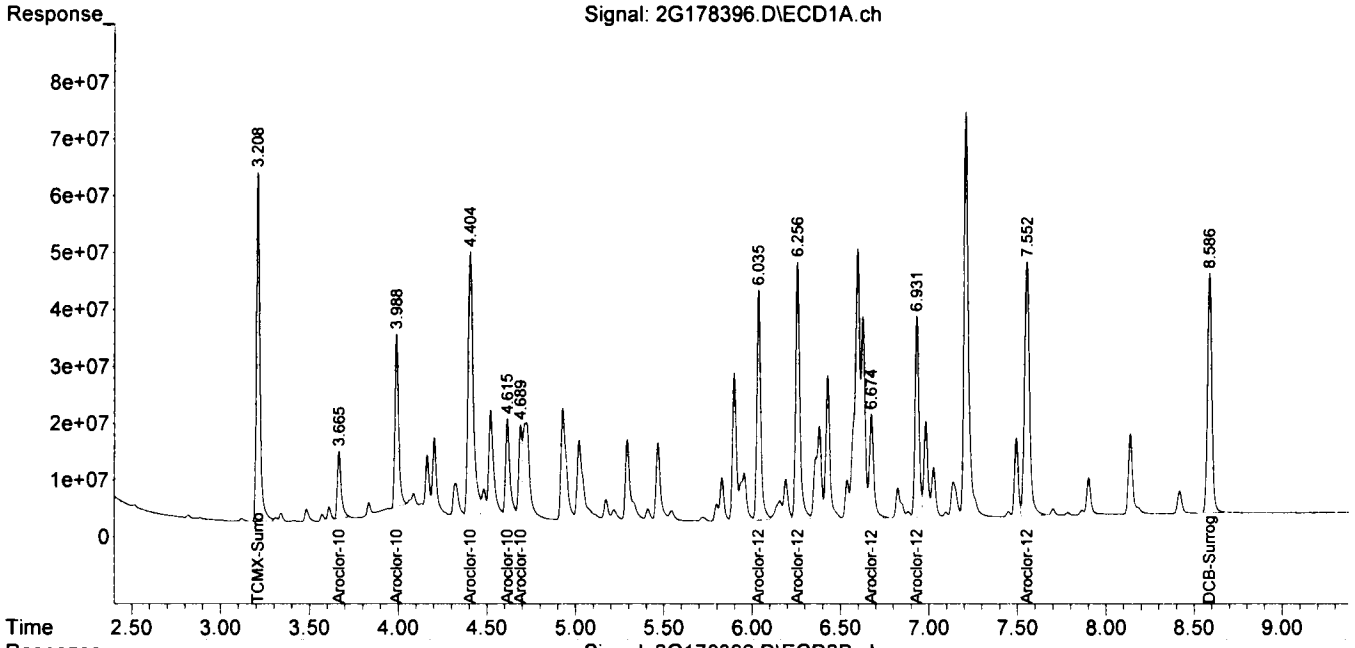
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

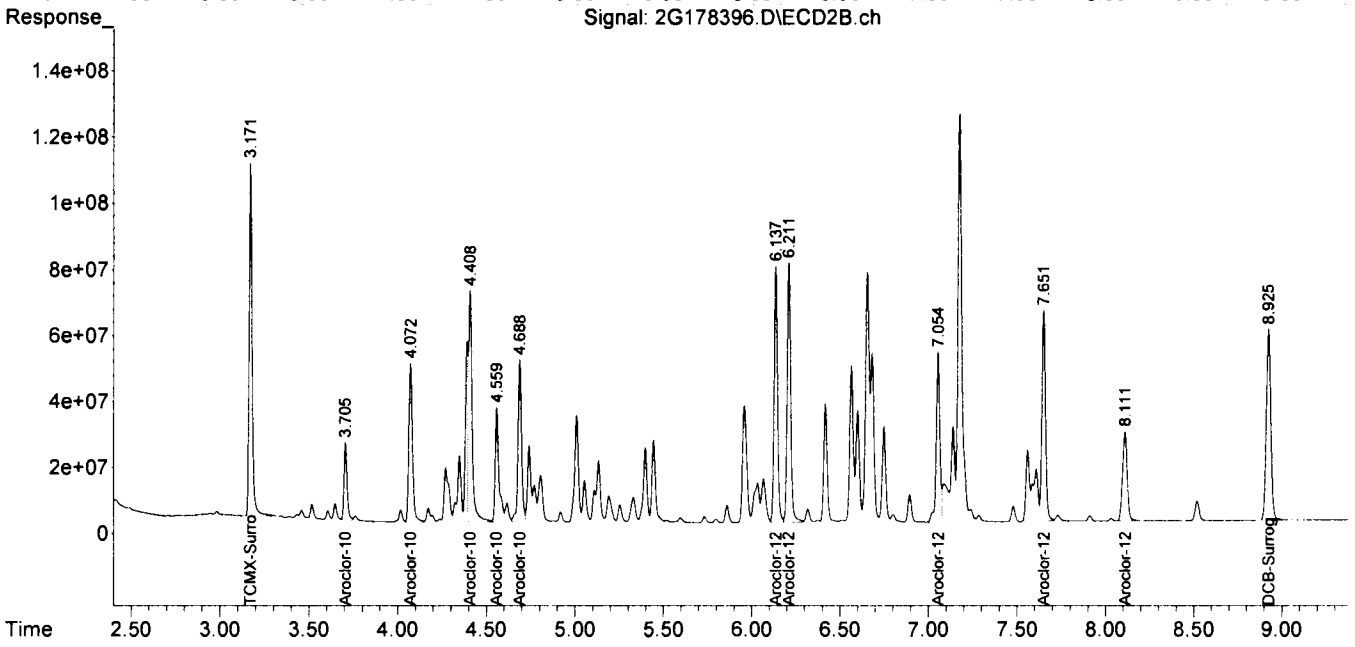
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-30-23\
Data File : 2G178396.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jun 2023 12:41
Operator : AH/PR/KM
Sample : AD38798-005(MSD:AD38798-002) (Sig #1); AD38798-005(MSD) (Sig #2)
Misc : A,PCB
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 13:08:35 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-30-23\
Data File : 2G178397.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jun 2023 12:53
Operator : AH/PR/KM
Sample : AD38798-002
Misc : A,PCB
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 13:09:01 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
	Target Compounds						
1)	TCMX-Surrogate	3.208	3.171	876.2E6	1306.3E6	103.542	101.869m
45)	DCB-Surrogate	8.585	8.924	736.5E6	1062.3E6	103.082m	99.815

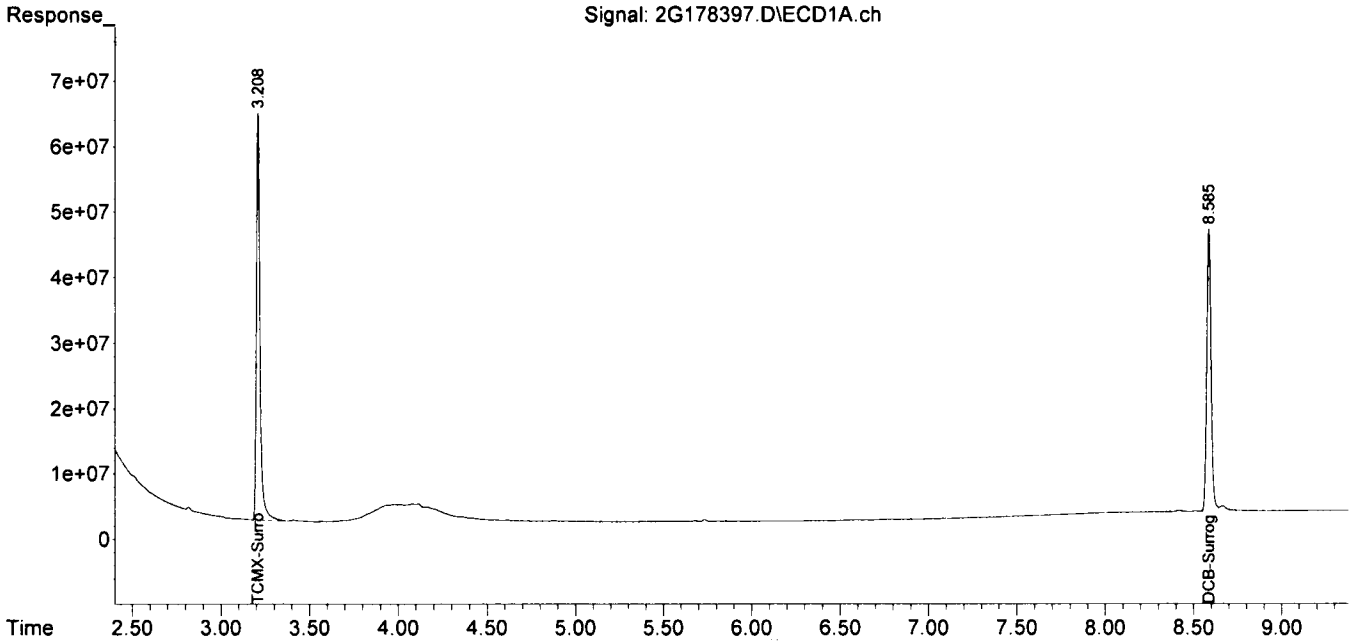
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

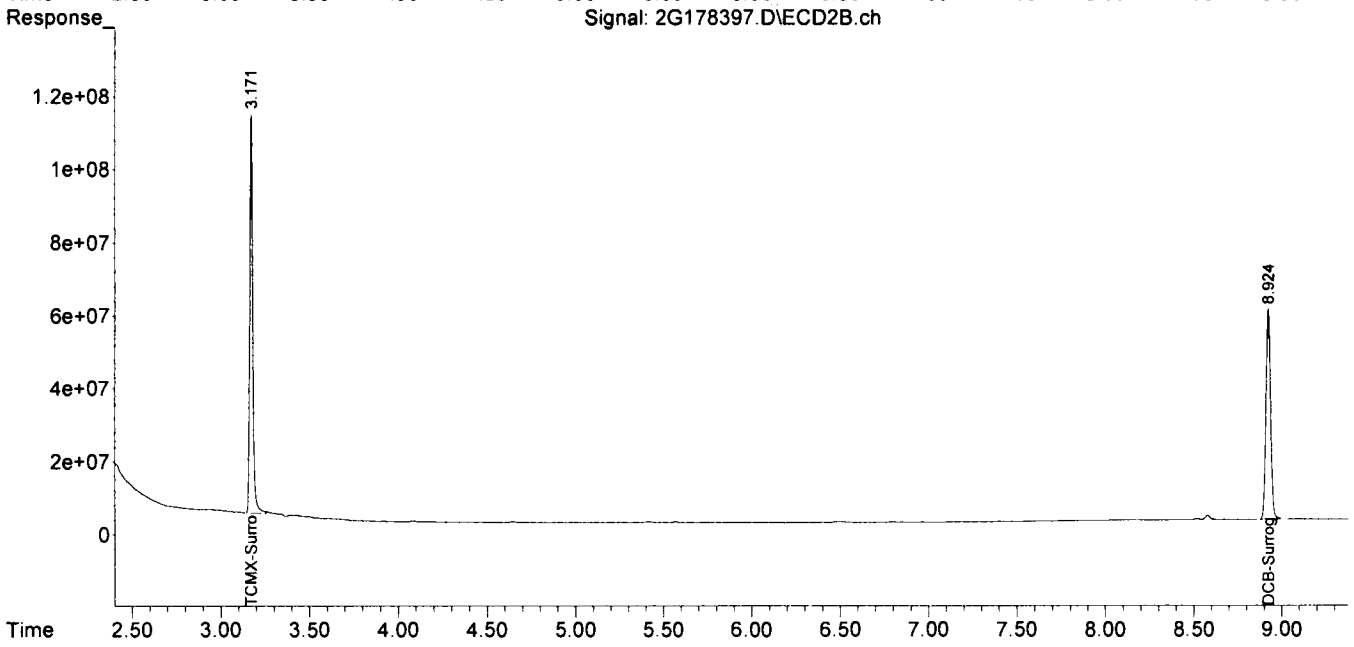
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_2\Data\06-30-23\
Data File : 2G178397.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jun 2023 12:53
Operator : AH/PR/KM
Sample : AD38798-002
Misc : A,PCB
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 13:09:01 2023
Quant Method : G:\GCDATA\2023\GC_2\METHODQT\2G_PCB0517.M
Quant Title : @GC_2,ug,608,8082
QLast Update : Wed May 17 17:00:33 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : 0.32 Signal #2 Info : 0.32





GC PCB Data
Logbook Data

QC109471 PEST

QC109472 PCB

Hampton-Clarke

Shaker Extraction: (Pest) (3510C) / (PCB) (3510C) / Other(_____):

Pest Batch No.: 109471
Start Ext Date/Time: 6/29/23 6:05pm
End Ext. Date/Time: 6/30/23 7:11am
Recirculator: Start temp: 20.0, 15.0
End temp: 20.1, 14.8

PCB Batch No.: 109472
Shaker Used: 2,3,4
Condenser Used: 1,2
Condenser Flow: 2500 CCM

Sample Number	No. in batch		Initial Vol	Final Vol	Extracted By/ Comments	TCLP QC	Extraction Fluid
	Pest	PCB					
MB 109471/472	X	X	1000mL	5mL	JM		
MBS 109471/472	X	X	↓	↓	↓		
MS 38798-004	X		970mL	↓	↓		
MSD 38798-005	X		990mL	↓	↓		
MS 38798-004		X	970mL	↓	↓		
MSD 38798-005		X	995mL	↓	↓		
AD 38798-002	1	1	965mL	↓	↓		
↓ -006	2	2	985mL	↓	↓		
↓ -007	3	3	965mL	↓	↓		
AD 38806-006	4	4	1000mL	↓	↓		
AD 38812-009	5	5	↓	↓	↓		
↓ -010	6	6	↓	↓	↓		
↓ -011	7	7	↓	↓	↓		
↓ -012	8	8	↓	↓	↓		
AD 38881-001	9	9	985mL	↓	↓		
					Rack #25		
Copper Cleanup:							
Sulfuric Acid Cleanup:	N/A	X					

Spike Standards

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
50	10	393041	(Pest) / PCB / multi
↓	100	389701	Pest / (PCB) / multi
			Pest / PCB / multi
			Pest / PCB / multi
			Pest / PCB / multi

Surrogate Standards

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
50	10	396477	(Pest / PCB) / multi
			Pest / PCB / multi
			Pest / PCB / multi
			Pest / PCB / multi
			Pest / PCB / multi

Reagent Lots: $MeCl_2$: 15357 Hexane: 15370 baked Na_2SO_4: 398425 Copper Powder: _____ Sulfuric Acid: 15245

Relinquished By: _____ Date: 6/29/23
Received By: _____ Date: 06/30/23

RUN LOG

1-1-2G176266

Instrument: GC_2 Year: 2023
Analyst: AH/PR/KM

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
2G176266.	CAL 3268@500PPB		V-395705	KM 05/23/23		Soil	1	1	608\808	05/17 11:42
2G176267.	CAL 1242@500PPB		V-395716	KM 05/23/23		Soil	1	1	608\808	05/17 11:54
2G176268.	CAL 1248@500PPB		V-395718	KM 05/23/23		Soil	1	1	608\808	05/17 12:05
2G176269.	CAL 2154@500PPB		V-395719	KM 05/23/23		Soil	1	1	608\808	05/17 12:17
2G176270.	CAL 1262@500PPB		V-395720	KM 05/23/23		Soil	1	1	608\808	05/17 12:29
2G176271.	CAL 1660@50PPB		B-34823	KM 05/23/23		Soil	1	1	608\808	05/17 12:41
2G176272.	1660@50PPB	IsCmeS8				Soil	1	1	8082	05/17 12:52
2G176273.	CAL 1660@200PPB		B-34823	KM 05/23/23		Soil	1	1	608\808	05/17 13:04
2G176274.	CAL 1660@500PPB		B-34823	KM 05/23/23		Soil	1	1	608\808	05/17 13:16
2G176275.	CAL 1660@1000PP		B-34823	KM 05/23/23		Soil	1	1	608\808	05/17 13:28
2G176276.	CAL 1660@2000PP		B-34823	KM 05/23/23		Soil	1	1	608\808	05/17 13:39
2G176277.	CAL 1660@4000PP		B-34823	KM 05/23/23		Soil	1	1	608\808	05/17 13:51
2G176278.	PEST WS	CmeS8Do				Soil	1	1	8082	05/17 14:42
2G176279.	TEST	CmeS8				Soil	1	1	8082	05/17 14:54
2G176280.	TEST	CmeS8				Soil	1	1	8082	05/17 15:06
2G176281.	ICV	Cme	V-395704	KM 05/23/23		Soil	1	1	8082	05/17 16:57

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
An	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for eph
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	FvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Fvnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Fvrc	Eval Mix missing dft or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rnd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rnd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Rn	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Dpft
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Endrin Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6.Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

1-1-2G178371

Instrument: GC_2 Year: 2023
Analyst: AH/PR/KM

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
2G178371.	CAL 1660@1000PP		OK,V-395695	KM 06/30/23		Soil	0.5	1	608\808	06/30 07:17
2G178372.	SMB109470		OK	KM 06/30/23		Soil	1	1	8082	06/30 07:36
2G178373.	SMB109470(MS)		OK SMB109470	KM 06/30/23		Soil	1	1	8082	06/30 07:47
2G178374.	AD38651-033(MS)		OK SMB109468	KM 06/30/23	PCB-8082	Soil	1	1	8082	06/30 08:16
2G178375.	AD38651-033(MSD)		OK SMB109468	KM 06/30/23	PCB-8082	Soil	1	1	8082	06/30 08:28
2G178376.	AD38703-022		OK,CONFIRMED	KM 06/30/23	PCB-8082	Soil	1	1	8082	06/30 08:40
2G178377.	AD38703-024		OK,CONFIRMED	KM 06/30/23	PCB-8082	Soil	1	1	8082	06/30 08:52
2G178378.	AD38651-033		OK SMB109468	KM 06/30/23	PCB-8082	Soil	1	1	8082	06/30 09:03
2G178379.	AD38659-025		OK	KM 06/30/23		Soil	1	1	8082	06/30 09:15
2G178380.	AD38651-027		OK	KM 06/30/23	PCB-8082	Soil	1	1	8082	06/30 09:27
2G178381.	AD38651-029		OK	KM 06/30/23	PCB-8082	Soil	1	1	8082	06/30 09:39
2G178382.	AD38651-031		OK	KM 06/30/23	PCB-8082	Soil	1	1	8082	06/30 09:50
2G178383.	AD38787-003		OK	KM 06/30/23	PCB-8082	Soil	1	1	8082	06/30 10:02
2G178384.	AD38787-002		OK	KM 06/30/23	PCB-8082	Soil	1	1	8082	06/30 10:14
2G178385.	AD38787-001		OK SMB109470	KM 06/30/23	PCB-8082	Soil	1	1	8082	06/30 10:26
2G178386.	AD38787-001(MSD)		OK SMB109470	KM 06/30/23	PCB-8082	Soil	1	1	8082	06/30 10:37
2G178387.	AD38787-001(MS)		OK SMB109470	KM 06/30/23	PCB-8082	Soil	1	1	8082	06/30 10:49
2G178388.	AD38703-026		OK,CONFIRMED	KM 06/30/23	PCB-8082	Soil	1	1	8082	06/30 11:06
2G178389.	AD38651-035		OK	KM 06/30/23	PCB-8082	Soil	1	1	8082	06/30 11:18
2G178390.	AD38651-037		OK	KM 06/30/23	PCB-8082	Soil	1	1	8082	06/30 11:30
2G178391.	AD38703-001		OK	KM 06/30/23	PCB-8082	Soil	1	1	8082	06/30 11:42
2G178392.	CAL 1660@1000PP		OK	KM 06/30/23		Soil	0.5	1	608\808	06/30 11:53
2G178393.	WMB109472(MS)	M16M18M26	OK WMB109472	KM 06/30/23		Aqueous	1	1	608\808	06/30 12:06
2G178394.	WMB109472		OK	KM 06/30/23		Aqueous	1	1	608\808	06/30 12:17
2G178395.	AD38798-004(MS:	AM16M18M26 M28	OK WMB109472	KM 06/30/23	PCB-8082	Aqueous	1	1	608\808	06/30 12:29
2G178396.	AD38798-005(MSD:	M16M18M26 M28	OK WMB109472	KM 06/30/23	PCB-8082	Aqueous	1	1	608\808	06/30 12:41
2G178397.	AD38798-002		OK WMB109472	KM 06/30/23	PCB-8082	Aqueous	1	1	608\808	06/30 12:53
2G178398.	AD38798-006		OK	KM 06/30/23	PCB-8082	Aqueous	1	1	8082	06/30 13:04
2G178399.	AD38798-007		OK	KM 06/30/23	PCB-8082	Aqueous	1	1	8082	06/30 13:16
2G178400.	AD38812-012		OK	KM 06/30/23	PCB-8082	Aqueous	1	1	8082	06/30 13:28
2G178401.	AD38881-001		OK	KM 06/30/23	PCB-8082	Aqueous	1	1	8082	06/30 13:40
2G178402.	AD38806-006		OK	KM 06/30/23	PCB-608.3	Aqueous	1	1	608	06/30 13:51
2G178403.	AD38790-001		OK	KM 06/30/23	PCB-8082	Soil	1	1	8082	06/30 14:03
2G178404.	AD38804-003		OK	KM 06/30/23	PCB-8082	Soil	1	1	8082	06/30 14:15
2G178405.	AD38857-001		OK	KM 06/30/23	PCB-8082	Soil	1	1	8082	06/30 14:27
2G178406.	AD38857-006		OK	KM 06/30/23	PCB-8082	Soil	1	1	8082	06/30 14:38
2G178407.	AD38759-009		OK	KM 06/30/23	PCB-8082	Soil	1	1	8082	06/30 14:50
2G178408.	AD38703-009		OK,CONFIRMED	KM 06/30/23	PCB-8082	Soil	1	1	8082	06/30 15:02
2G178409.	AD38703-011		OK,CONFIRMED	KM 06/30/23	PCB-8082	Soil	1	1	8082	06/30 15:14
2G178410.	AD38790-002		OK,CONFIRMED	KM 06/30/23	PCB-8082	Soil	1	1	8082	06/30 15:25
2G178411.	PCB SPIKE TEST	Do	TEST	KM 06/30/23		Soil	1	1	8082	06/30 15:41
2G178412.	AD38851-003(2X)		OK	KM 06/30/23	PCB-8082	Soil	2	2	8082	06/30 16:03
2G178413.	1000PPB	Tm	OK,NOT USED	KM 06/30/23		Soil	0.5	1	8082	06/30 16:15
2G178414.	CAL 1660@1000PP		OK	KM 06/30/23		Soil	0.5	1	608\808	06/30 17:34
2G178415.	AD38651-023		OK	KM 06/30/23	PCB-8082	Soil	1	1	8082	06/30 17:46
2G178416.	AD38651-025		OK	KM 06/30/23	PCB-8082	Soil	1	1	8082	06/30 17:58
2G178417.	CAL 1660@1000PP		OK	KM 06/30/23		Soil	0.5	1	608\808	06/30 18:13

Anc	Area Not Checked	Fo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Fsm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Ftn	Tcln/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for enb
B8m	Blank 8000 series missing	Fto	Tcln Extraction Performed Outside of Hold	FvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Fv	Eval Time Exceeded	Fvnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Fvrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rod Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rod Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt csv for ind calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a samol	Sa6,Sb6	Acid and or BN Surrogate Out (600 series)

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-384611

Prepared By: Hamid, Akmal
Description: PEST/PCB GC LAB SURR (DANGER)
Prep Date: 11/28/2022
Expiration Date: 11/28/2023
Department: Organics
BatchNumber:
Concentration: 200 ppm
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 11/28/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14846	Decachlorobiphenyl	20 mg	NEAT neat	200 ppm
14847	2,4,5,6-Tetrachloro-m-xylene	20 mg	NEAT neat	200 ppm
14910	acetone	100 ml	neat neat	

Veritech Lot Number: V-395678

Prepared By: Hamid, Akmal
Description: PCB SPIKE (DANGER)
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: OrgPrep
BatchNumber:
Concentration: 100 ppm
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14965	Aroclor 1016	5 ml	1000 ppm	100 ppm
14946	Aroclor 1260	5 ml	1000 ppm	100 ppm
15190	ACETONE	40 ml	Neat neat	

Veritech Lot Number: V-395687

Prepared By: Hamid, Akmal
Description: 3268 INTER(DANGER)
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	750 ul	Neat neat	
V-384611	PEST/PCB GC LAB SURR (DANGER)	50 ul	200 ppm	10 ppm
14347	Aroclor 1232	100 ul	1000 ppm	100 ppm
14897	Aroclor 1268	100 ul	1000 ppm	100 ppm

Veritech Lot Number: V-395688

Prepared By: Hamid, Akmal
Description: 1242 INTER(DANGER)
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9950 ul	Neat neat	
V-384611	PEST/PCB GC LAB SURR (DANGER)	50 ul	200 ppm	10 ppm
14203	Aroclor 1242 STD.	100 ul	1000 ppm	100 ppm

Veritech Lot Number: V-395689

Prepared By: Hamid, Akmal
Description: 1248 INTER(DANGER)
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	850 ul	Neat neat	
V-384611	PEST/PCB GC LAB SURR (DANGER)	50 ul	200 ppm	10 ppm
14349	Aroclor 1248	100 ul	1000 ppm	100 ppm

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-384611

Prepared By: Hamid, Akmal
Description: PEST/PCB GC LAB SURR (DANGER)
Prep Date: 11/28/2022
Expiration Date: 11/28/2023
Department: Organics
BatchNumber:
Concentration: 200 ppm
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 11/28/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14846	Decachlorobiphenyl	20 mg	NEAT neat	200 ppm
14847	2,4,5,6-Tetrachloro-m-xylene	20 mg	NEAT neat	200 ppm
14910	acetone	100 ml	neat neat	

Veritech Lot Number: V-388495

Prepared By: User, Organics
Description: BAKED SAND OTTAWA
Prep Date: 1/30/2023
Expiration Date: 2/13/2023
Department: Organics
BatchNumber:
Concentration: 1000 ppm
Final Volume: 4 ml
ApprovedBy: akmal
ApproveDate: 02/15/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14935	Sand Ottawa		neat neat	

Veritech Lot Number: V-389701

Prepared By: Rana, Priya
Description: PCB SPIKE (DANGER)
Prep Date: 2/16/2023
Expiration Date: 8/16/2023
Department: OrgPrep
BatchNumber:
Concentration: 100 ppm
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 02/16/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14965	Aroclor 1016	5 ml	1000 ppm	100 ppm
14946	Aroclor 1260	5 ml	1000 ppm	100 ppm
15039	acetone	40 ml	neat neat	

Veritech Lot Number: V-396477

Prepared By: McCracken, Kaitlyn
Description: PEST/PCB PREP SURR (danger)
Prep Date: 5/31/2023
Expiration Date: 11/28/2023
Department: Organics
BatchNumber:
Concentration: 10 ppm
Final Volume: 500 ml
ApprovedBy: akmal
ApproveDate: 06/01/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-384611	PEST/PCB GC LAB SURR (DANGER)	25 ml	200 ppm	10 ppm
15098	ACETONE	475 ml	neat neat	

Veritech Lot Number: V-398425

Prepared By: Patwala, Pooja
Description: BAKED SODIUM SULFATE
Prep Date: 6/28/2023
Expiration Date: 2/13/2023
Department: Organics
BatchNumber:
Concentration: 4000 g
Final Volume: 4000 g
ApprovedBy: akmal
ApproveDate: 07/05/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-388495	BAKED SAND OTTAWA		1000 ppm	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-395690

Prepared By: Hamid, Akmal
Description: 2154 INTER(DANGER)
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	750 ul	Neat neat	
V-384611	PEST/PCB GC LAB SURR (DANGER)	50 ul	200 ppm	10 ppm
14813	Aroclor 1221 Solution	100 ul	1000 ppm	100 ppm
14350	Aroclor 1254	100 ul	1000 ppm	100 ppm

Veritech Lot Number: V-395691

Prepared By: Hamid, Akmal
Description: 1262 INTER(DANGER)
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	850 ul	Neat neat	
V-384611	PEST/PCB GC LAB SURR (DANGER)	50 ul	200 ppm	10 ppm
14352	Aroclor 1262	100 ul	1000 ppm	100 ppm

Veritech Lot Number: V-395692

Prepared By: Hamid, Akmal
Description: 1660 PCB INTERMEDIATE (DANGER)
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	3750 ul	Neat neat	
14812	Aroclor 1016 Solution	500 ul	1000 pppm	100 ppm
14818	Aroclor 1260 Solution	500 ul	1000 ppm	100 ppm
V-384611	PEST/PCB GC LAB SURR (DANGER)	250 ul	200 ppm	10 ppm

Veritech Lot Number: V-395693

Prepared By: Hamid, Akmal
Description: CAL 1660@4000PPB
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber: B-34823
Concentration: 4000 ppb
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	48000 ul	Neat neat	
V-395692	1660 PCB INTERMEDIATE (DANGER)	2000 ul	100 ppm	4000 ppb

Veritech Lot Number: V-395694

Prepared By: Hamid, Akmal
Description: CAL 1660@2000PPB
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber: B-34823
Concentration: 2000 ppb
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	49000 ul	Neat neat	
V-395692	1660 PCB INTERMEDIATE (DANGER)	1000 ul	100 ppm	2000 ppb

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-395695

Prepared By: Hamid, Akmal
Description: CAL 1660@1000PPB
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber: B-34823
Concentration: 1000 ppb
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-395692	1660 PCB INTERMEDIATE (DANGER)	500 ul	100 ppm	1000 ppb
15192	HEXANE	49500 ul	Neat neat	

Veritech Lot Number: V-395696

Prepared By: Hamid, Akmal
Description: CAL 1660@500PPB
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber: B-34823
Concentration: 500 ppb
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-395692	1660 PCB INTERMEDIATE (DANGER)	250 ul	100 ppm	500 ppb
15192	HEXANE	49750 ul	Neat neat	

Veritech Lot Number: V-395697

Prepared By: Hamid, Akmal
Description: CAL 1660@200PPB
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber: B-34823
Concentration: 200 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9000 ul	Neat neat	
V-395694	CAL 1660@2000PPB	1000 ul	2000 ppb	200 ppb

Veritech Lot Number: V-395698

Prepared By: Hamid, Akmal
Description: CAL 1660@50PPB
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber: B-34823
Concentration: 50 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9000 ul	Neat neat	
V-395696	CAL 1660@500PPB	1000 ul	500 ppb	50 ppb

Veritech Lot Number: V-395704

Prepared By: Hamid, Akmal
Description: ICV PCB (DANGER)
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber:
Concentration: 1000 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9895 ul	Neat neat	
V-384611	PEST/PCB GC LAB SURR (DANGER)	5 ul	200 ppm	100 ppb
V-395678	PCB SPIKE (DANGER)	100 ul	100 ppm	1000 ppb

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-395705

Prepared By: Hamid, Akmal
Description: CAL 3268@500PPB (DANGER)
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber:
Concentration: 500 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9950 ul	Neat neat	
V-395687	3268 INTER(DANGER)	50 ul	100 ppm	500 ppb

Veritech Lot Number: V-395716

Prepared By: Hamid, Akmal
Description: CAL 1242@500PPB (DANGER)
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber:
Concentration: 500 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9950 ul	Neat neat	
V-395688	1242 INTER(DANGER)	50 ul	100 ppm	500 ppb

Veritech Lot Number: V-395718

Prepared By: Hamid, Akmal
Description: CAL1248@500PPB (DANGER)
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber:
Concentration: 500 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9950 ul	Neat neat	
V-395689	1248 INTER(DANGER)	50 ul	100 ppm	500 ppb

Veritech Lot Number: V-395719

Prepared By: Hamid, Akmal
Description: CAL 2154@500PPB (DANGER)
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber:
Concentration: 500 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9950 ul	Neat neat	
V-395690	2154 INTER(DANGER)	50 ul	100 ppm	500 ppb

Veritech Lot Number: V-395720

Prepared By: Hamid, Akmal
Description: CAL 1262@500PPB (DANGER)
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber:
Concentration: 500 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9950 ul	Neat neat	
V-395691	1262 INTER(DANGER)	50 ul	100 ppm	500 ppb

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14203

Description
Aroclor 1242 STD.

ApprovedBy: Akmal
ApproveDate: 09/28/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Sigma-Aldrich	44806	LRAC9022	09/28/21	05/31/24	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 14347

Description
Aroclor 1232

ApprovedBy: akmal
ApproveDate: 12/09/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44805	LRAD0035-1	12/08/21	11/30/24	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 14349

Description
Aroclor 1248

ApprovedBy: akmal
ApproveDate: 12/09/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44807	LRAD0035-3	12/08/21	11/30/24	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 14350

Description
Aroclor 1254

ApprovedBy: akmal
ApproveDate: 12/09/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44808	LRAD0035-4	12/08/21	11/30/24	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 14352

Description
Aroclor 1262

ApprovedBy: akmal
ApproveDate: 12/09/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44810	LRAD0035-6	12/08/21	11/30/24	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 14812

Description
Aroclor 1016 Solution

ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Sigma-Aldrich	48097	LRAD2481	09/15/22	06/30/25	Hamid, Akmal	2	1ML	1000	PPPM

Veritech Control/Receipt Number: 14813

Description
Aroclor 1221 Solution

ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Sigma-Aldrich	48098	LRAD2878	09/15/22	07/31/25	Hamid, Akmal	1	1ML	1000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14818

Description: Aroclor 1260 Solution

ApprovedBy: akmal
ApproveDate: 09/15/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Sigma-Aldrich	44809	LRAD2463	09/15/22	05/31/25	Hamid, Akmal	2	1ML	1000	PPM

Veritech Control/Receipt Number: 14846

Description: Decachlorobiphenyl

ApprovedBy: akmal
ApproveDate: 09/26/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	BZ-209-10MG	13660800	09/26/22	09/30/24	Hamid, Akmal	3	10MG	NEAT	NEAT

Veritech Control/Receipt Number: 14847

Description: 2,4,5,6-Tetrachloro-m-xylene

ApprovedBy: akmal
ApproveDate: 09/26/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-10542-100MG	13555000	09/26/22	10/31/26	Hamid, Akmal	3	100M	NEAT	NEAT

Veritech Control/Receipt Number: 14897

Description: Aroclor 1268

ApprovedBy: akmal
ApproveDate: 10/18/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Restek	32410	A0186492	10/17/22	09/30/28	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 14910

Description: acetone

ApprovedBy: jean
ApproveDate: 11/04/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9254-03	21J3062001	11/01/22	09/19/24	Lopez, Jose	2	4L	neat	neat

Veritech Control/Receipt Number: 14946

Description: Aroclor 1260

ApprovedBy: jean
ApproveDate: 11/17/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	C-260S-H-10X-PAK	222051148	11/17/22	05/11/32	User, Organics	15	ml	1000	PPM

Veritech Control/Receipt Number: 14965

Description: Aroclor 1016

ApprovedBy: jean
ApproveDate: 11/30/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	C-216S-H-10X-PAK	222111334	11/30/22	11/23/32	User, Organics	15	1ml	1000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15190

Description
ACETONE

ApprovedBy: akmal
ApproveDate: 04/11/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
TEDIA	AA1111	22070110	04/04/23	04/03/28	Longton, Rhys	60	4L	Neat	Neat

Veritech Control/Receipt Number: 15192

Description
HEXANE

ApprovedBy: akmal
ApproveDate: 04/11/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
TEDIA	HA1721	22090086	04/04/23	04/03/28	Longton, Rhys	60	4L	Neat	Neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14846

Description: Decachlorobiphenyl

ApprovedBy: akmal
ApproveDate: 09/26/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	BZ-209-10MG	13660800	09/26/22	09/30/24	Hamid, Akmal	3	10MG	NEAT	NEAT

Veritech Control/Receipt Number: 14847

Description: 2,4,5,6-Tetrachloro-m-xylene

ApprovedBy: akmal
ApproveDate: 09/26/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-10542-100MG	13555000	09/26/22	10/31/26	Hamid, Akmal	3	100M	NEAT	NEAT

Veritech Control/Receipt Number: 14910

Description: acetone

ApprovedBy: jean
ApproveDate: 11/04/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9254-03	21J3062001	11/01/22	09/19/24	Lopez, Jose	2	4L	neat	neat

Veritech Control/Receipt Number: 14935

Description: Sand Ottawa

ApprovedBy: jean
ApproveDate: 11/17/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Lab Sales Service	LSD2001100	-092122	11/15/22	11/13/27	Lopez, Jose	4	3kg	neat	neat

Veritech Control/Receipt Number: 14946

Description: Aroclor 1260

ApprovedBy: jean
ApproveDate: 11/17/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	C-260S-H-10X-PAK	222051148	11/17/22	05/11/32	User, Organics	15	ml	1000	PPM

Veritech Control/Receipt Number: 14965

Description: Aroclor 1016

ApprovedBy: jean
ApproveDate: 11/30/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	C-216S-H-10X-PAK	222111334	11/30/22	11/23/32	User, Organics	15	1ml	1000	PPM

Veritech Control/Receipt Number: 15039

Description: acetone

ApprovedBy: akmal
ApproveDate: 01/20/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Tedia	AA1111	22030360	01/18/23	09/27/23	Lopez, Jose	8	4L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15098

Description
ACETONE

ApprovedBy: akmal
ApproveDate: 02/15/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Tedia	AA1111	22070110	02/09/23	07/23/24	Lopez, Jose	48	4L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15245

Description: Sulfuric Acid

ApprovedBy: jean
ApproveDate: 05/05/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J. T .B AKER	9684-03	22H0962009	04/28/23	06/27/27	Cajuste, Pierre	18	2.5 L	Neat	Neat

Veritech Control/Receipt Number: 15357

Description: Dichloromethane

ApprovedBy: akmal
ApproveDate: 06/13/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco/EMD	DX0831	63083	06/12/23	06/11/28	Lopez, Jose	100	4L	neat	neat

Veritech Control/Receipt Number: 15370

Description: n-hexane

ApprovedBy: jean
ApproveDate: 06/23/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Tedia	HG4840	23050151	06/22/23	05/10/26	Lopez, Jose	4	4L	neat	neat

GC Pesticide Data

GC Pesticide Data
QC Summary

FORM2

Surrogate Recovery

Method: EPA 8081B

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column2 S2 Recov	Column1 S3 Recov	Column2 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
3G149358.D	WMB109471	A	07/06/23 10:20	1		97	93	101	102		
6G178541.D	AD38798-002	A	07/19/23 09:13	1		101	101	115	114		
6G178163.D	AD38798-004(MS:AD38	A	07/11/23 16:48	1		103	100	119	119		
6G178164.D	AD38798-005(MSD:AD3	A	07/11/23 17:00	1		93	93	118	118		
3G149272.D	AD38798-006	A	06/30/23 15:56	1		109	103	129	137		
3G149271.D	AD38798-007	A	06/30/23 15:44	1		109	104	109	116		
3G149355.D	WMB109471(MS)	A	07/06/23 09:45	1		98	97	109	112		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8081B

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=TCMX-Surrogate	100	12-137
S2=TCMX-Surrogate	100	12-137
S3=DCB-Surrogate	100	13-160
S4=DCB-Surrogate	100	13-160

Form3
Recovery Data Laboratory Limits
QC Batch: WMB109471

Data File | Sample ID: | Analysis Date
Spike or Dup: 3G149355.D | WMB109471(MS) | 7/6/2023 9:45:00 AM
Non Spike(If applicable):
Inst Blank(If applicable):

Method: 8081 | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	1	91.71	0	100	92	44	120
gamma-BHC	1	91.77	0	100	92	44	123
beta-BHC	1	93.29	0	100	93	35	129
Heptachlor	1	90.86	0	100	91	44	123
delta-BHC	1	89.15	0	100	89	38	128
Aldrin	1	90.44	0	100	90	46	118
Heptachlor Epoxide	1	95.73	0	100	96	49	121
y-chlordane	1	85.69	0	100	86	44	138
a-chlordane	1	95.88	0	100	96	46	123
Endosulfan I	1	97.96	0	100	98	44	126
p,p'-DDE	1	100.82	0	100	101	44	132
Dieldrin	1	93.9	0	100	94	54	134
Endrin	1	91.07	0	100	91	40	139
p,p'-DDD	1	99.35	0	100	99	43	144
Endosulfan II	1	100.62	0	100	101	39	139
p,p'-DDT	1	104.72	0	100	105	44	138
Endrin Aldehyde	1	110.4	0	100	110	29	143
Endosulfan Sulfate	1	94.15	0	100	94	38	142
Methoxychlor	1	101.98	0	100	102	22	159
Endrin Ketone	1	96.89	0	100	97	40	139

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form

Form3
Recovery Data Laboratory Limits
QC Batch: WMB109471

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G178163.D	AD38798-004(MS:AD38798-00	7/11/2023 4:48:00 PM
Non Spike(If applicable):	6G178541.D	AD38798-002	7/19/2023 9:13:00 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	1	94.64	0	100	95	44	120
gamma-BHC	1	94.64	0	100	95	44	123
beta-BHC	1	95.83	0	100	96	35	129
Heptachlor	1	91.27	0	100	91	44	123
delta-BHC	1	92.49	0	100	92	38	128
Aldrin	1	91.92	0	100	92	46	118
Heptachlor Epoxide	1	98.19	0	100	98	49	121
y-chlordane	1	88.58	0	100	89	44	138
a-chlordane	1	100.09	0	100	100	46	123
Endosulfan I	1	99.95	0	100	100	44	126
p,p'-DDE	1	105.56	0	100	106	44	132
Dieldrin	1	95.24	0	100	95	45	134
Endrin	1	102.4	0	100	102	40	139
p,p'-DDD	1	105.36	0	100	105	43	144
Endosulfan II	1	100.41	0	100	100	39	139
p,p'-DDT	1	91.3	0	100	91	44	138
Endrin Aldehyde	1	105.39	0	100	105	29	143
Endosulfan Sulfate	1	96.23	0	100	96	38	142
Methoxychlor	1	85.44	0	100	85	22	159
Endrin Ketone	1	98.73	0	100	99	40	139

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G178164.D	AD38798-005(MSD:AD38798-0	7/11/2023 5:00:00 PM
Non Spike(If applicable):	6G178541.D	AD38798-002	7/19/2023 9:13:00 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	1	103.98	0	100	104	44	120
gamma-BHC	1	98.72	0	100	99	44	123
beta-BHC	1	95.35	0	100	95	35	129
Heptachlor	1	94.34	0	100	94	44	123
delta-BHC	1	91.96	0	100	92	38	128
Aldrin	1	92.38	0	100	92	46	118
Heptachlor Epoxide	1	97.33	0	100	97	49	121
y-chlordane	1	86.63	0	100	87	44	138
a-chlordane	1	98.65	0	100	99	46	123
Endosulfan I	1	97.8	0	100	98	44	126
p,p'-DDE	1	103.13	0	100	103	44	132
Dieldrin	1	94.49	0	100	94	45	134
Endrin	1	101.48	0	100	101	40	139
p,p'-DDD	1	104.39	0	100	104	43	144
Endosulfan II	1	101.85	0	100	102	39	139
p,p'-DDT	1	91.44	0	100	91	44	138
Endrin Aldehyde	1	109.33	0	100	109	29	143
Endosulfan Sulfate	1	95.9	0	100	96	38	142
Methoxychlor	1	87.67	0	100	88	22	159
Endrin Ketone	1	99.5	0	100	100	40	139

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form

Form3
RPD Data Laboratory Limits
QC Batch: WMB109471

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G178164.D	AD38798-005(MSD:AD38798-0	7/11/2023 5:00:00 PM
Duplicate(If applicable):	6G178163.D	AD38798-004(MS:AD38798-00	7/11/2023 4:48:00 PM
Inst Blank(If applicable):			

Method: 8081 Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
alpha-BHC	1	103.98	94.64	9.4	27
gamma-BHC	1	98.72	94.64	4.2	29
beta-BHC	1	95.35	95.83	0.5	41
Heptachlor	1	94.34	91.27	3.3	41
delta-BHC	1	91.96	92.49	0.57	35
Aldrin	1	92.38	91.92	0.5	26
Heptachlor Epoxide	1	97.33	98.19	0.88	24
y-chlordane	1	86.63	88.58	2.2	24
a-chlordane	1	98.65	100.09	1.4	24
Endosulfan I	1	97.8	99.95	2.2	24
p,p'-DDE	1	103.13	105.56	2.3	23
Dieldrin	1	94.49	95.24	0.79	24
Endrin	1	101.48	102.4	0.9	29
p,p'-DDD	1	104.39	105.36	0.92	40
Endosulfan II	1	101.85	100.41	1.4	30
p,p'-DDT	1	91.44	91.3	0.15	60
Endrin Aldehyde	1	109.33	105.39	3.7	50
Endosulfan Sulfate	1	95.9	96.23	0.34	41
Methoxychlor	1	87.67	85.44	2.6	50
Endrin Ketone	1	99.5	98.73	0.78	42

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: WMB109471
Blank Data File: 3G149358.D
Matrix: Aqueous

Blank Analysis Date: 07/06/23 10:20
Blank Extraction Date: 06/29/23
(If Applicable)
Method: EPA 8081B

Sample Number	Data File	Analysis Date
AD38798-002	6G178541.D	07/19/23 09:13
AD38798-004(MS:	6G178163.D	07/11/23 16:48
AD38798-005(MSD	6G178164.D	07/11/23 17:00
AD38798-006	3G149272.D	06/30/23 15:56
AD38798-007	3G149271.D	06/30/23 15:44
WMB109471(MS)	3G149355.D	07/06/23 09:45

Form 5

Method: EPA 8081B

Instrument: GC_3 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
3G148103.D	CAL EVAL	06/02/23 15:27	Soil					
3G148104.D	CAL EVAL	06/02/23 15:39	Soil					
3G148105.D	PEST@2PPB	06/02/23 15:50	Soil					
3G148106.D	CAL PEST@2PPB	06/02/23 16:02	Soil	3G14810	8.5825	0	9.0517	0
3G148107.D	CAL PEST@10PPB	06/02/23 16:14	Soil	3G14810	8.5816	0.0105	9.0517	0
3G148108.D	PEST@10PPB	06/02/23 16:26	Soil	3G14810	8.5817	0.0093	9.0525	0.0088
3G148109.D	CAL PEST@50PPB	06/02/23 16:37	Soil	3G14810	8.5808	0.0198	9.0510	0.0077
3G148110.D	CAL PEST@100PPB	06/02/23 16:49	Soil	3G14810	8.5805	0.0233	9.0531	0.0155
3G148111.D	CAL PEST@200PPB	06/02/23 17:01	Soil	3G14810	8.5810	0.0175	9.0514	0.0033
3G148112.D	CAL PEST@400PPB	06/02/23 17:13	Soil	3G14810	8.5798	0.0315	9.0508	0.0099
3G148113.D	CAL CHLORO@100PP	06/02/23 17:24	Soil	3G14810	8.5805	0.0233	9.0525	0.0088
3G148114.D	TOX@50PPB	06/02/23 17:36	Soil	3G14810	0.0000	200 *	0.0000	200 *
3G148115.D	TOX@200PPB	06/02/23 17:48	Soil	3G14810	0.0000	200 *	0.0000	200 *
3G148116.D	TOX@500PPB	06/02/23 18:00	Soil	3G14810	0.0000	200 *	0.0000	200 *
3G148117.D	TOX@1000PPB	06/02/23 18:12	Soil	3G14810	0.0000	200 *	0.0000	200 *
3G148118.D	TOX@2000PPB	06/02/23 18:23	Soil	3G14810	0.0000	200 *	0.0000	200 *
3G148119.D	TOX@4000PPB	06/02/23 18:35	Soil	3G14810	0.0000	200 *	0.0000	200 *
3G148120.D	TOX ICV	06/02/23 18:47	Soil	3G14810	8.5756	0.0804	9.0483	0.0376
3G148121.D	ICV	06/02/23 18:59	Soil	3G14810	8.5772	0.0618	9.0493	0.0265
3G148122.D	ICV	06/02/23 19:10	Soil	3G14810	8.5772	0.0618	9.0496	0.0232

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8081B

Instrument: GC_6 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
6G177184.D	EVAL	06/14/23 10:13	Soil					
6G177185.D	CAL EVAL	06/14/23 10:25	Soil					
6G177186.D	CAL PEST@100PPB	06/14/23 10:39	Soil	6G17718	8.4165	0.0666	9.1076	0.0351
6G177187.D	CAL PEST@10PPB	06/14/23 10:50	Soil	6G17718	8.4121	0.0143	9.1048	0.0044
6G177188.D	CAL PEST@2PPB	06/14/23 11:02	Soil	6G17718	8.4109	0	9.1044	0
6G177189.D	CAL PEST@400PPB	06/14/23 11:14	Soil	6G17718	8.4131	0.0262	9.1069	0.0275
6G177190.D	CAL PEST@200PPB	06/14/23 11:26	Soil	6G17718	8.4136	0.0321	9.1054	0.011
6G177191.D	CAL PEST@50PPB	06/14/23 11:37	Soil	6G17718	8.4117	0.0095	9.1047	0.0033
6G177192.D	CAL CHLORO@100PP	06/14/23 11:49	Soil	6G17718	8.4128	0.0226	9.1051	0.0077
6G177193.D	TOX@4000PPB	06/14/23 12:01	Soil	6G17718	8.4119	0.0119	9.1060	0.0176
6G177194.D	TOX@200PPB	06/14/23 12:12	Soil	6G17718	8.4112	0.0036	9.1048	0.0044
6G177195.D	TOX@1000PPB	06/14/23 12:24	Soil	6G17718	8.4117	0.0095	9.1048	0.0044
6G177196.D	TOX@500PPB	06/14/23 12:36	Soil	6G17718	8.4118	0.0107	9.1061	0.0187
6G177197.D	TOX@2000PPB	06/14/23 12:48	Soil	6G17718	8.4110	0.0012	9.1059	0.0165
6G177198.D	TOX@50PPB	06/14/23 12:59	Soil	6G17718	8.4108	0	9.1030	0.0154
6G177199.D	TOX ICV	06/14/23 13:11	Soil	6G17719	8.4100	0.0095	9.1034	0.0044
6G177200.D	ICV	06/14/23 13:23	Soil	6G17719	8.4110	0.0024	9.1044	0.0154
6G177201.D	AD38482-003	06/14/23 15:48	Aqueous	6G17719	8.4296	0.2233	9.1171	0.1548
6G177202.D	AD38482-005	06/14/23 16:00	Aqueous	6G17719	8.4154	0.0547	9.1064	0.0373
6G177203.D	EF-1-V-396484(06/09/23	06/14/23 16:11	Aqueous	6G17719	8.4116	0.0095	9.1045	0.0165
6G177204.D	EF-1-V-396484(06/07/23	06/14/23 16:23	Aqueous	6G17719	8.4110	0.0024	9.1043	0.0143
6G177205.D	CAL PEST@100PPB	06/14/23 17:02	Soil	6G17719	8.4248	0.1663	9.1121	0.0999

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8081B

Instrument: GC_3 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
3G149231.D	CAL EVAL	06/30/23 07:21	Soil					
3G149232.D	CAL PEST@100PPB	06/30/23 07:36	Soil	3G14923	8.5405	0	9.0173	0
3G149233.D	AD38797-014	06/30/23 08:02	Soil	3G14923	8.5479	0.0866	9.0227	0.0599
3G149234.D	AD38797-025	06/30/23 08:14	Soil	3G14923	8.5321	0.0984	9.0140	0.0366
3G149235.D	AD38797-026	06/30/23 08:26	Soil	3G14923	8.5288	0.1371	9.0118	0.061
3G149236.D	AD38797-024	06/30/23 08:38	Soil	3G14923	8.5293	0.1312	9.0120	0.0588
3G149237.D	AD38797-023	06/30/23 08:49	Soil	3G14923	8.5278	0.1488	9.0126	0.0521
3G149238.D	AD38797-021	06/30/23 09:01	Soil	3G14923	8.5284	0.1418	9.0122	0.0566
3G149239.D	AD38797-020	06/30/23 09:13	Soil	3G14923	8.5255	0.1758	9.0108	0.0721
3G149240.D	AD38797-019	06/30/23 09:25	Soil	3G14923	8.5266	0.1629	9.0112	0.0677
3G149241.D	AD38790-003	06/30/23 09:36	Soil	3G14923	8.5269	0.1594	9.0114	0.0654
3G149242.D	AD38790-005	06/30/23 09:48	Soil	3G14923	8.5256	0.1746	9.0105	0.0754
3G149243.D	AD38797-018	06/30/23 10:00	Soil	3G14923	8.5260	0.1699	8.9916	0.2854
3G149244.D	AD38797-007	06/30/23 10:12	Soil	3G14923	8.5268	0.1605	9.0110	0.0699
3G149245.D	AD38797-010	06/30/23 10:23	Soil	3G14923	8.5275	0.1523	9.0116	0.0632
3G149246.D	AD38797-009	06/30/23 10:35	Soil	3G14923	8.5279	0.1476	9.0113	0.0666
3G149247.D	AD38797-005	06/30/23 10:47	Soil	3G14923	8.5271	0.157	9.0118	0.061
3G149248.D	AD38797-006	06/30/23 10:59	Soil	3G14923	8.5264	0.1652	9.0106	0.0743
3G149249.D	AD38797-012	06/30/23 11:10	Soil	3G14923	8.5271	0.157	9.0109	0.071
3G149250.D	AD38797-011	06/30/23 11:22	Soil	3G14923	8.5272	0.1558	9.0107	0.0732
3G149251.D	AD38695-001	06/30/23 11:34	Soil	3G14923	8.5277	0.15	9.0109	0.071
3G149252.D	AD38797-001	06/30/23 11:46	Soil	3G14923	8.5266	0.1629	9.0106	0.0743
3G149253.D	100PPB	06/30/23 12:03	Soil	3G14923	8.6233	0.9648 *	9.0174	0.0011
3G149254.D	CAL PEST@100PPB	06/30/23 12:21	Soil	3G14923	8.5388	0.0199	9.0173	0
3G149255.D	WMB109473	06/30/23 12:36	Aqueous	3G14925	8.5379	0.0105	9.0164	0.01
3G149256.D	WMB109471	06/30/23 12:48	Aqueous	3G14925	8.5279	0.1277	9.0114	0.0654
3G149257.D	WMB109471(MS)	06/30/23 13:00	Aqueous	3G14925	8.5275	0.1324	9.0107	0.0732
3G149258.D	WMB109473(MS)	06/30/23 13:11	Aqueous	3G14925	8.5255	0.1559	9.0100	0.081
3G149259.D	AD38748-001(MS)	06/30/23 13:23	Aqueous	3G14925	8.5255	0.1559	9.0096	0.0854
3G149260.D	AD38748-001(MSD)	06/30/23 13:35	Aqueous	3G14925	8.5265	0.1442	9.0098	0.0832
3G149261.D	38798-004(MS)	06/30/23 13:47	Aqueous	3G14925	8.5256	0.1547	9.0093	0.0888
3G149262.D	38798-004(MSD)	06/30/23 13:58	Aqueous	3G14925	8.5252	0.1594	9.0108	0.0721
3G149263.D	AD38748-001(T)	06/30/23 14:10	Aqueous	3G14925	8.5242	0.1711	9.0101	0.0799
3G149264.D	AD38798-002	06/30/23 14:22	Aqueous	3G14925	8.5243	0.17	9.0093	0.0888
3G149265.D	AD38790-001(T)	06/30/23 14:34	Aqueous	3G14925	8.5263	0.1465	9.0105	0.0754
3G149266.D	AD38790-002(T)	06/30/23 14:45	Aqueous	3G14925	8.5245	0.1676	9.0093	0.0888
3G149267.D	AD38790-003(T)	06/30/23 14:57	Aqueous	3G14925	8.5247	0.1653	9.0102	0.0788
3G149268.D	AD38790-004(T)	06/30/23 15:09	Aqueous	3G14925	8.5249	0.1629	9.0102	0.0788
3G149269.D	AD38790-005(T)	06/30/23 15:21	Aqueous	3G14925	8.5255	0.1559	9.0111	0.0688
3G149270.D	AD38790-006(T)	06/30/23 15:32	Aqueous	3G14925	8.5252	0.1594	9.0095	0.0865
3G149271.D	AD38798-007	06/30/23 15:44	Aqueous	3G14925	8.5256	0.1547	9.0094	0.0876
3G149272.D	AD38798-006	06/30/23 15:56	Aqueous	3G14925	8.5247	0.1653	9.0088	0.0943
3G149273.D	AD38812-010	06/30/23 16:08	Aqueous	3G14925	8.5242	0.1711	9.0094	0.0876
3G149274.D	AD38812-009	06/30/23 16:19	Aqueous	3G14925	8.5239	0.1747	9.0100	0.081
3G149275.D	CAL PEST@100PPB	06/30/23 16:46	Soil	3G14925	8.5438	0.0585	9.0218	0.0499
3G149276.D	CAL PEST@100PPB	06/30/23 17:03	Soil	3G14925	8.5244	0.1688	9.0047	0.1398

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8081B

Instrument: GC_3 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
3G149287.D	CAL EVAL	07/03/23 14:17	Soil					
3G149288.D	PEST@100PPB	07/03/23 15:07	Soil					
3G149290.D	PEST@2PPB	07/03/23 15:49	Soil					
3G149291.D	CAL PEST@2PPB	07/03/23 16:01	Soil	3G14929	8.5300	0	9.0120	0
3G149292.D	PEST@10PPB	07/03/23 16:13	Soil	3G14929	8.5276	0.0281	9.0112	0.0089
3G149293.D	CAL PEST@10PPB	07/03/23 16:25	Soil	3G14929	8.5228	0.0844	9.0063	0.0633
3G149294.D	CAL PEST@50PPB	07/03/23 16:36	Soil	3G14929	8.5255	0.0528	9.0096	0.0266
3G149295.D	CAL PEST@100PPB	07/03/23 16:48	Soil	3G14929	8.5256	0.0516	9.0097	0.0255
3G149296.D	CAL PEST@200PPB	07/03/23 17:00	Soil	3G14929	8.5188	0.1314	9.0038	0.091
3G149297.D	CAL PEST@400PPB	07/03/23 17:12	Soil	3G14929	8.5256	0.0516	9.0101	0.0211
3G149298.D	CAL CHLORO@100PP	07/03/23 17:23	Soil	3G14929	8.5243	0.0668	9.0090	0.0333
3G149299.D	TOX@50PPB	07/03/23 17:35	Soil	3G14929	0.0000	200 *	0.0000	200 *
3G149300.D	TOX@50PPB	07/03/23 17:47	Soil	3G14929	0.0000	200 *	0.0000	200 *
3G149301.D	TOX@200PPB	07/03/23 17:59	Soil	3G14929	0.0000	200 *	0.0000	200 *
3G149302.D	TOX@500PPB	07/03/23 18:10	Soil	3G14929	0.0000	200 *	0.0000	200 *
3G149303.D	TOX@1000PPB	07/03/23 18:22	Soil	3G14929	0.0000	200 *	0.0000	200 *
3G149304.D	TOX@2000PPB	07/03/23 18:34	Soil	3G14929	0.0000	200 *	0.0000	200 *
3G149305.D	TOX@4000PPB	07/03/23 18:46	Soil	3G14929	0.0000	200 *	0.0000	200 *
3G149306.D	TOX ICV	07/03/23 18:57	Soil	3G14929	8.5234	0.0774	9.0079	0.0455
3G149307.D	ICV	07/03/23 19:09	Soil	3G14929	8.5227	0.0856	9.0073	0.0522

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8081B

Instrument: GC_3 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
3G149353.D	CAL EVAL	07/06/23 09:05	Soil					
3G149354.D	CAL PEST@100PPB	07/06/23 09:31	Soil	3G14935	8.5334	0	9.0179	0
3G149355.D	WMB109471(MS)	07/06/23 09:45	Aqueous	3G14935	8.5350	0.0188	9.0140	0.0433
3G149356.D	WMB109473(MS)	07/06/23 09:57	Aqueous	3G14935	8.5253	0.095	9.0082	0.1076
3G149357.D	WMB109504(MS)	07/06/23 10:08	Aqueous	3G14935	8.5233	0.1184	9.0071	0.1198
3G149358.D	WMB109471	07/06/23 10:20	Aqueous	3G14935	8.5234	0.1172	9.0061	0.1309
3G149359.D	WMB109473	07/06/23 10:32	Aqueous	3G14935	8.5155	0.21	9.0089	0.0999
3G149360.D	WMB109504	07/06/23 10:44	Aqueous	3G14935	8.5212	0.1431	9.0056	0.1365
3G149361.D	AD38748-001(T)	07/06/23 10:55	Aqueous	3G14935	8.5138	0.2299	9.0066	0.1254
3G149362.D	AD38881-001	07/06/23 11:07	Aqueous	3G14935	8.5223	0.1302	9.0067	0.1243
3G149363.D	AD38748-001(T)(MS)	07/06/23 11:19	Aqueous	3G14935	8.5223	0.1302	9.0060	0.1321
3G149364.D	AD38748-001(T)(MSD)	07/06/23 11:31	Aqueous	3G14935	8.5229	0.1231	9.0058	0.1343
3G149365.D	38798-004(MS:AD38798	07/06/23 11:42	Aqueous	3G14935	8.5220	0.1337	9.0067	0.1243
3G149366.D	38798-005(MSD:AD387	07/06/23 11:54	Aqueous	3G14935	8.5225	0.1278	9.0070	0.1209
3G149367.D	EF-1-V-397759(06/27)	07/06/23 12:06	Aqueous	3G14935	8.5085	0.2922	8.9929	0.2776
3G149368.D	AD38750-038	07/06/23 12:18	Soil	3G14935	8.5227	0.1255	9.0071	0.1198
3G149369.D	AD38750-039	07/06/23 12:29	Soil	3G14935	8.5220	0.1337	9.0072	0.1187
3G149370.D	AD38750-040	07/06/23 12:41	Soil	3G14935	8.5228	0.1243	9.0079	0.111
3G149371.D	AD38800-001	07/06/23 12:53	Soil	3G14935	8.5237	0.1137	9.0081	0.1087
3G149372.D	AD38808-001	07/06/23 13:05	Soil	3G14935	8.5248	0.1008	9.0087	0.1021
3G149373.D	AD38808-004	07/06/23 13:16	Soil	3G14935	8.5233	0.1184	9.0077	0.1132
3G149374.D	AD38808-007	07/06/23 13:28	Soil	3G14935	8.5157	0.2076	9.0005	0.1931
3G149375.D	CAL PEST@100PPB	07/06/23 13:47	Soil	3G14935	8.5254	0.0938	9.0045	0.1487
3G149376.D	AD38782-006(MS)	07/06/23 14:03	Soil	3G14937	8.5361	0.1254	9.0149	0.1154
3G149377.D	AD38782-006(MSD)	07/06/23 14:15	Soil	3G14937	8.5281	0.0317	9.0117	0.0799
3G149378.D	AD38764-002(MS)	07/06/23 14:27	Soil	3G14937	8.5262	0.0094	9.0109	0.071
3G149379.D	AD38764-002(MSD)	07/06/23 14:39	Soil	3G14937	8.5264	0.0117	9.0113	0.0755
3G149380.D	AD38823-001(MS)	07/06/23 14:50	Soil	3G14937	8.5252	0.0023	9.0108	0.0699
3G149381.D	AD38823-001(MSD)	07/06/23 15:02	Soil	3G14937	8.5256	0.0023	9.0103	0.0644
3G149382.D	AD38787-001(MS)	07/06/23 15:14	Soil	3G14937	8.5247	0.0082	9.0095	0.0555
3G149383.D	SMB109524(MS)	07/06/23 15:26	Soil	3G14937	8.5246	0.0094	9.0083	0.0422
3G149384.D	CAL PEST@100PPB	07/06/23 15:41	Soil	3G14937	8.5322	0.0797	9.0122	0.0855

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8081B

Instrument: GC_6 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
6G178119.D	CAL EVAL	07/11/23 02:01	Soil					
6G178121.D	CAL PEST@100PPB	07/11/23 02:25	Soil	6G17812	8.3982	0	9.1040	0
6G178123.D	AD38838-027	07/11/23 03:12	Soil	6G17812	8.3948	0.0405	9.1005	0.0385
6G178124.D	AD38838-026	07/11/23 03:23	Soil	6G17812	8.3949	0.0393	9.1020	0.022
6G178125.D	AD38838-025	07/11/23 03:35	Soil	6G17812	8.3956	0.031	9.1017	0.0253
6G178126.D	AD38838-024	07/11/23 03:47	Soil	6G17812	8.3954	0.0333	9.1021	0.0209
6G178127.D	AD38838-024(MSD)	07/11/23 03:59	Soil	6G17812	8.3951	0.0369	9.1037	0.0033
6G178128.D	AD38838-024(MS)	07/11/23 04:10	Soil	6G17812	8.3959	0.0274	9.1032	0.0088
6G178129.D	AD38838-010	07/11/23 04:22	Soil	6G17812	8.3952	0.0357	9.1032	0.0088
6G178130.D	AD38838-011	07/11/23 04:34	Soil	6G17812	8.3953	0.0345	9.1023	0.0187
6G178131.D	AD38838-012	07/11/23 04:45	Soil	6G17812	8.3948	0.0405	9.1007	0.0363
6G178132.D	AD38838-023	07/11/23 04:57	Soil	6G17812	8.3942	0.0476	9.1024	0.0176
6G178133.D	SMB109559(MS)	07/11/23 05:09	Soil	6G17812	8.3956	0.031	9.1021	0.0209
6G178134.D	AD38838-022	07/11/23 05:21	Soil	6G17812	8.3958	0.0286	9.1018	0.0242
6G178135.D	SMB109559	07/11/23 05:32	Soil	6G17812	8.3955	0.0322	9.1038	0.0022
6G178136.D	AD38838-021	07/11/23 05:44	Soil	6G17812	8.3945	0.0441	9.1015	0.0275
6G178137.D	AD38838-020	07/11/23 05:56	Soil	6G17812	8.3943	0.0464	9.1023	0.0187
6G178138.D	AD38833-007	07/11/23 06:08	Soil	6G17812	8.3942	0.0476	9.1013	0.0297
6G178139.D	AD38833-008	07/11/23 06:19	Soil	6G17812	8.3961	0.025	9.1037	0.0033
6G178140.D	AD38965-003	07/11/23 06:31	Soil	6G17812	8.3956	0.031	9.1023	0.0187
6G178141.D	AD38979-003	07/11/23 06:43	Soil	6G17812	8.3953	0.0345	9.1032	0.0088
6G178142.D	AD38833-006	07/11/23 06:55	Soil	6G17812	8.3953	0.0345	9.1040	0
6G178143.D	CAL EVAL	07/11/23 07:27	Soil					
6G178144.D	CAL PEST@100PPB	07/11/23 08:09	Soil	6G17812	8.4007	0.0298	9.1053	0.0143
6G178145.D	AD38920-001(T)	07/11/23 08:31	Aqueous	6G17814	8.4082	0.0892	9.1106	0.0582
6G178146.D	AD38833-010	07/11/23 08:42	Aqueous	6G17814	8.3996	0.0131	9.1061	0.0088
6G178147.D	AD38833-011	07/11/23 08:54	Aqueous	6G17814	8.3983	0.0286	9.1051	0.0022
6G178148.D	AD38833-012	07/11/23 09:06	Aqueous	6G17814	8.3965	0.05	9.1027	0.0286
6G178149.D	AD38833-009	07/11/23 09:17	Aqueous	6G17814	8.3957	0.0595	9.1024	0.0319
6G178150.D	EF-1-V-398329(07/07/23	07/11/23 09:29	Aqueous	6G17814	8.3958	0.0583	9.1022	0.0341
6G178151.D	AD38955-001	07/11/23 09:41	Aqueous	6G17814	8.3955	0.0619	9.1012	0.045
6G178152.D	SMB109558(MS)	07/11/23 09:53	Soil	6G17814	8.3955	0.0619	9.1014	0.0428
6G178153.D	AD38838-004(MS)	07/11/23 10:04	Soil	6G17814	8.3965	0.05	9.1035	0.0198
6G178154.D	AD38833-001(MSD)	07/11/23 10:16	Soil	6G17814	8.3956	0.0607	9.1036	0.0187
6G178155.D	AD38833-001(MS)	07/11/23 10:28	Soil	6G17814	8.3956	0.0607	9.1032	0.0231
6G178156.D	SMB109562(MS)	07/11/23 10:40	Soil	6G17814	8.3970	0.044	9.1036	0.0187
6G178157.D	SMB109562	07/11/23 10:51	Soil	6G17814	8.3970	0.044	9.1041	0.0132
6G178158.D	38838-018	07/11/23 12:20	Soil	6G17814	8.4148	0.1677	9.1154	0.1109
6G178159.D	100PPB	07/11/23 13:37	Soil	6G17814	8.4131	0.1475	9.1143	0.0988
6G178160.D	CAL PEST@100PPB	07/11/23 14:15	Soil	6G17814	8.4085	0.0928	9.1098	0.0494
6G178161.D	38798-004(MS)	07/11/23 16:04	Aqueous	6G17816	8.4151	0.0785	9.1154	0.0615
6G178162.D	38798-005(MSD)	07/11/23 16:16	Aqueous	6G17816	8.4016	0.0821	9.1066	0.0351
6G178163.D	AD38798-004(MS:AD38	07/11/23 16:48	Aqueous	6G17816	8.4117	0.0381	9.1136	0.0417
6G178164.D	AD38798-005(MSD:AD3	07/11/23 17:00	Aqueous	6G17816	8.4006	0.094	9.1068	0.0329
6G178165.D	100PPB	07/11/23 17:36	Soil	6G17816	8.4124	0.0464	9.1148	0.0549
6G178166.D	CAL PEST@100PPB	07/11/23 17:50	Soil	6G17816	8.4065	0.0238	9.1117	0.0209
6G178167.D	AD38955-001	07/11/23 18:35	Aqueous	6G17816	8.4109	0.0523	9.1138	0.023
6G178169.D	AD38955-001(20X)	07/11/23 19:09	Aqueous	6G17816	8.4000	0.0774	9.1060	0.0626
6G178170.D	CAL PEST@100PPB	07/11/23 19:27	Soil	6G17816	8.4046	0.0226	9.1084	0.0362

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8081B
Instrument: GC_6 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
6G178537.D	CAL EVAL	07/19/23 07:42	Soil					
6G178538.D	100PPB	07/19/23 07:57	Soil					
6G178539.D	CAL PEST@100PPB	07/19/23 08:38	Soil	6G17853	8.4030	0	9.1103	0
6G178540.D	SMB109524	07/19/23 09:01	Soil	6G17853	8.4029	0.0012	9.1082	0.0231
6G178541.D	AD38798-002	07/19/23 09:13	Aqueous	6G17853	8.3954	0.0905	9.1046	0.0626
6G178542.D	AD38953-003(MSD)	07/19/23 09:25	Soil	6G17853	8.3931	0.1179	9.1032	0.078
6G178543.D	SMB109502(MS)	07/19/23 09:45	Soil	6G17853	8.3983	0.0559	9.1063	0.0439
6G178544.D	AD38787-001(MSD)	07/19/23 10:37	Soil	6G17853	8.4042	0.0143	9.1098	0.0055
6G178545.D	SMB109641(MS)	07/19/23 10:48	Soil	6G17853	8.3982	0.0571	9.1066	0.0406
6G178546.D	AD39065-001(MSD)	07/19/23 11:00	Soil	6G17853	8.3944	0.1024	9.1044	0.0648
6G178547.D	SMB109639(MS)	07/19/23 11:12	Soil	6G17853	8.3933	0.1155	9.1034	0.0758
6G178548.D	AD39070-003(MSD)	07/19/23 11:24	Soil	6G17853	8.3919	0.1322	9.1023	0.0879
6G178549.D	AD39065-001(MS)	07/19/23 11:35	Soil	6G17853	8.3907	0.1465	9.1025	0.0857
6G178550.D	SMB109661(MS)	07/19/23 11:47	Soil	6G17853	8.3919	0.1322	9.1033	0.0769
6G178551.D	AD39070-003(MS)	07/19/23 11:59	Soil	6G17853	8.3923	0.1274	9.1031	0.0791
6G178552.D	SMB109509(MS)	07/19/23 12:17	Soil	6G17853	8.3996	0.0405	9.1072	0.034
6G178553.D	CAL PEST@100PPB	07/19/23 12:39	Soil	6G17853	8.4004	0.0309	9.1076	0.0296
6G178554.D	SMB109676	07/19/23 13:43	Soil	6G17855	8.4053	0.0583	9.1105	0.0318
6G178555.D	SMB109676(MS)	07/19/23 13:54	Soil	6G17855	8.3968	0.0429	9.1060	0.0176
6G178556.D	AD39061-005(MS)	07/19/23 14:06	Soil	6G17855	8.3923	0.0965	9.1015	0.067
6G178557.D	AD39061-005(MSD)	07/19/23 14:18	Soil	6G17855	8.3928	0.0905	9.1035	0.045
6G178558.D	AD39061-005	07/19/23 14:29	Soil	6G17855	8.3918	0.1024	9.1011	0.0714
6G178559.D	AD39061-002	07/19/23 14:41	Soil	6G17855	8.3922	0.0977	9.1026	0.0549
6G178560.D	AD39061-008	07/19/23 14:53	Soil	6G17855	8.3916	0.1048	9.1015	0.067
6G178561.D	AD39061-011	07/19/23 15:05	Soil	6G17855	8.3918	0.1024	9.1017	0.0648
6G178562.D	AD39061-014	07/19/23 15:16	Soil	6G17855	8.3905	0.1179	9.1007	0.0758
6G178563.D	AD39061-017	07/19/23 15:28	Soil	6G17855	8.3922	0.0977	9.1018	0.0637
6G178564.D	AD39061-020	07/19/23 15:40	Soil	6G17855	8.3919	0.1012	9.1013	0.0692
6G178565.D	AD39061-023	07/19/23 15:52	Soil	6G17855	8.3916	0.1048	9.1014	0.0681
6G178566.D	AD39061-026	07/19/23 16:03	Soil	6G17855	8.3909	0.1132	9.1022	0.0593
6G178567.D	AD39061-029	07/19/23 16:15	Soil	6G17855	8.3916	0.1048	9.1028	0.0527
6G178568.D	AD39061-032	07/19/23 16:27	Soil	6G17855	8.3928	0.0905	9.1035	0.045
6G178569.D	AD39061-035	07/19/23 16:39	Soil	6G17855	8.3916	0.1048	9.1022	0.0593
6G178570.D	AD39027-007	07/19/23 16:50	Soil	6G17855	8.3921	0.0989	9.1037	0.0428
6G178571.D	AD39027-019	07/19/23 17:02	Soil	6G17855	8.3921	0.0989	9.1025	0.056
6G178572.D	AD39090-003	07/19/23 17:14	Soil	6G17855	8.3954	0.0595	9.1035	0.045
6G178573.D	AD39092-001	07/19/23 17:25	Soil	6G17855	8.3963	0.0488	9.1058	0.0198
6G178574.D	CAL PEST@100PPB	07/19/23 17:43	Soil	6G17855	8.3963	0.0488	9.1047	0.0318

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

GC Pesticide Data
Sample Data

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD38798-002
Client Id: MW-2_6.22.23
Data File: 6G178541.D
Analysis Date: 07/19/23 09:13
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 965ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
5103-71-9	a-chlordane	0.010	U	53494-70-5	Endrin Ketone	0.010	U
309-00-2	Aldrin	0.010	U	58-89-9	gamma-BHC	0.010	U
319-84-6	alpha-BHC	0.010	U	76-44-8	Heptachlor	0.010	U
319-85-7	beta-BHC	0.010	U	1024-57-3	Heptachlor Epoxide	0.010	U
319-86-8	delta-BHC	0.010	U	72-43-5	Methoxychlor	0.015	U
60-57-1	Dieldrin	0.010	U	72-54-8	p,p'-DDD	0.010	U
959-98-8	Endosulfan I	0.010	U	72-55-9	p,p'-DDE	0.010	U
33213-65-9	Endosulfan II	0.010	U	50-29-3	p,p'-DDT	0.010	U
1031-07-8	Endosulfan Sulfate	0.010	U	8001-35-2	Toxaphene	0.26	U
72-20-8	Endrin	0.010	U	5103-74-2	y-chlordane	0.010	U
7421-93-4	Endrin Aldehyde	0.010	U	57-74-9	Chlordane (Total)	0.010	U

Worksheet #: 699675

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\07-19-23\
Data File : 6G178541.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jul 2023 09:13
Operator : AH/PR/KM
Sample : AD38798-002
Misc : A,PEST
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 19 09:28:40 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Jul 05 11:39:32 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
	Target Compounds						
1)	TCMX-Surrogate	3.088	3.231	949.0E6	798.9E6	100.732	101.431
22)	DCB-Surrogate	8.395	9.105	911.4E6	735.0E6	115.094m	113.793

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

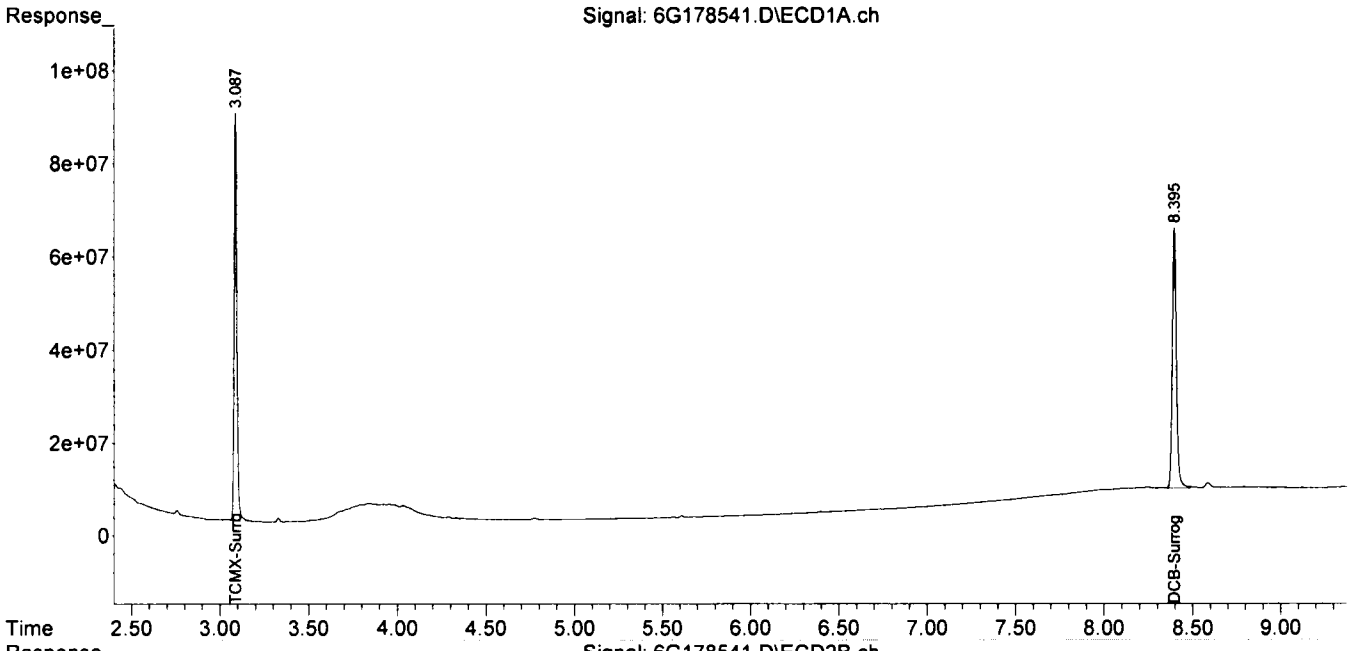
PR

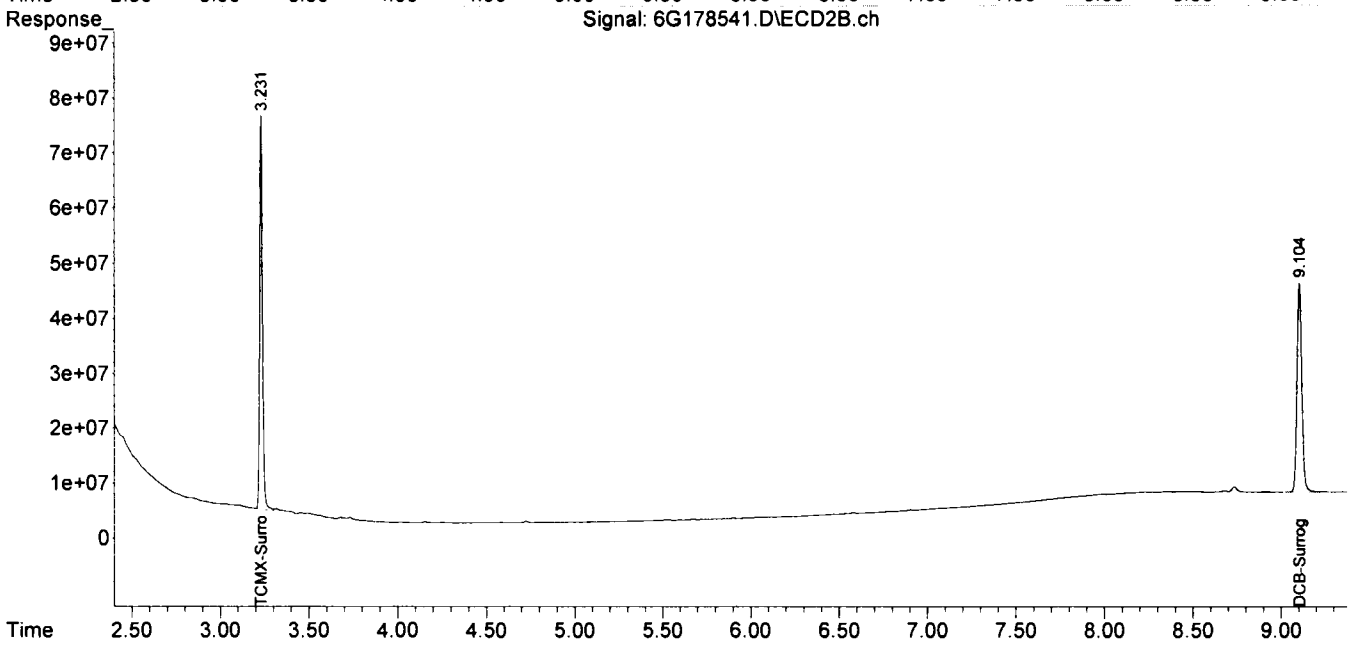
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\07-19-23\
Data File : 6G178541.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jul 2023 09:13
Operator : AH/PR/KM
Sample : AD38798-002
Misc : A,PEST
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 19 09:28:40 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Jul 05 11:39:32 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD38798-004(MS:AD38
Client Id: MW-2_6.22.23-MS
Data File: 6G178163.D
Analysis Date: 07/11/23 16:48
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 970ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
5103-71-9	a-chlordane	0.010	0.52	53494-70-5	(^)Endrin Ketone	0.010	0.52
309-00-2	Aldrin	0.010	0.47	58-89-9	gamma-BHC	0.010	0.49
319-84-6	alpha-BHC	0.010	0.49	76-44-8	(^)Heptachlor	0.010	0.50
319-85-7	(^)beta-BHC	0.010	0.49	1024-57-3	Heptachlor Epoxide	0.010	0.51
319-86-8	delta-BHC	0.010	0.48	72-43-5	(^)Methoxychlor	0.015	0.50
60-57-1	Dieldrin	0.010	0.49	72-54-8	(^)p,p'-DDD	0.010	0.55
959-98-8	(^)Endosulfan I	0.010	0.52	72-55-9	p,p'-DDE	0.010	0.54
33213-65-9	(^)Endosulfan II	0.010	0.53	50-29-3	(^)p,p'-DDT	0.010	0.48
1031-07-8	(^)Endosulfan Sulfate	0.010	0.50	8001-35-2	Toxaphene	0.26	U
72-20-8	Endrin	0.010	0.53	5103-74-2	y-chlordane	0.010	0.46
7421-93-4	(^)Endrin Aldehyde	0.010	0.55	57-74-9	Chlordane (Total)	0.010	0.98

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\07-11-23\
Data File : 6G178163.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Jul 2023 16:48
Operator : AH/PR/KM
Sample : AD38798-004(MS:AD38798-002) (Sig #1); AD38798-004(MS) (Sig #2)
Misc : A,PEST
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 11 17:00:06 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Jul 05 11:39:32 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.095	3.230	965.8E6	789.6E6	102.510	100.244
2)alpha-BHC	3.843	3.820	1264.9E6	997.6E6	94.638	92.792
3)gamma-BHC	4.194	4.181	1136.9E6	910.8E6	94.643	93.643
4)beta-BHC	4.846	4.229	512.7E6	428.5E6	95.825	95.842
5)Heptachlor	4.384	4.498	984.8E6	768.7E6	91.274	96.989
6)delta-BHC	5.095	4.587	1057.4E6	873.8E6	92.490	90.687
7)Aldrin	4.644	4.824	1026.0E6	815.5E6	91.919	90.844
8)Heptachlor Epoxid	5.268	5.362	976.6E6	769.1E6	98.194	96.487
9)y-chlordane	5.575	5.522	878.1E6	710.7E6	88.579	88.402
10)a-chlordane	5.626	5.680	980.1E6	775.5E6	100.086	98.172
11)Endosulfan I	5.537	5.722	902.6E6	749.0E6	99.949	100.176
12)p,p'-DDE	5.692	5.905	1022.3E6	821.1E6	105.559	104.922
13)Dieldrin	5.885	6.029	966.3E6	779.9E6	95.240	95.102
14)Endrin	6.087	6.405	935.9E6	724.8E6	102.399	101.738
15)p,p'-DDD	6.459	6.467	836.7E6	689.3E6	105.357	106.025
16)Endosulfan II	6.550	6.580	842.7E6	701.8E6	100.409	102.167
17)p,p'-DDT	6.621	6.777	641.9E6	486.5E6	91.299	93.824
18)Endrin Aldehyde	6.958	6.909	574.9E6	539.2E6	105.387	106.829
19)Endosulfan Sulfat	7.263	7.031	734.0E6	597.3E6	96.232	96.976
20)Methoxychlor	7.197	7.652	342.4E6	265.3E6	85.437m	96.299
21)Endrin Ketone	7.672	7.841	869.5E6	750.6E6	98.735	101.633
22)DCB-Surrogate	8.412	9.114	942.6E6	770.2E6	119.032m	119.252m

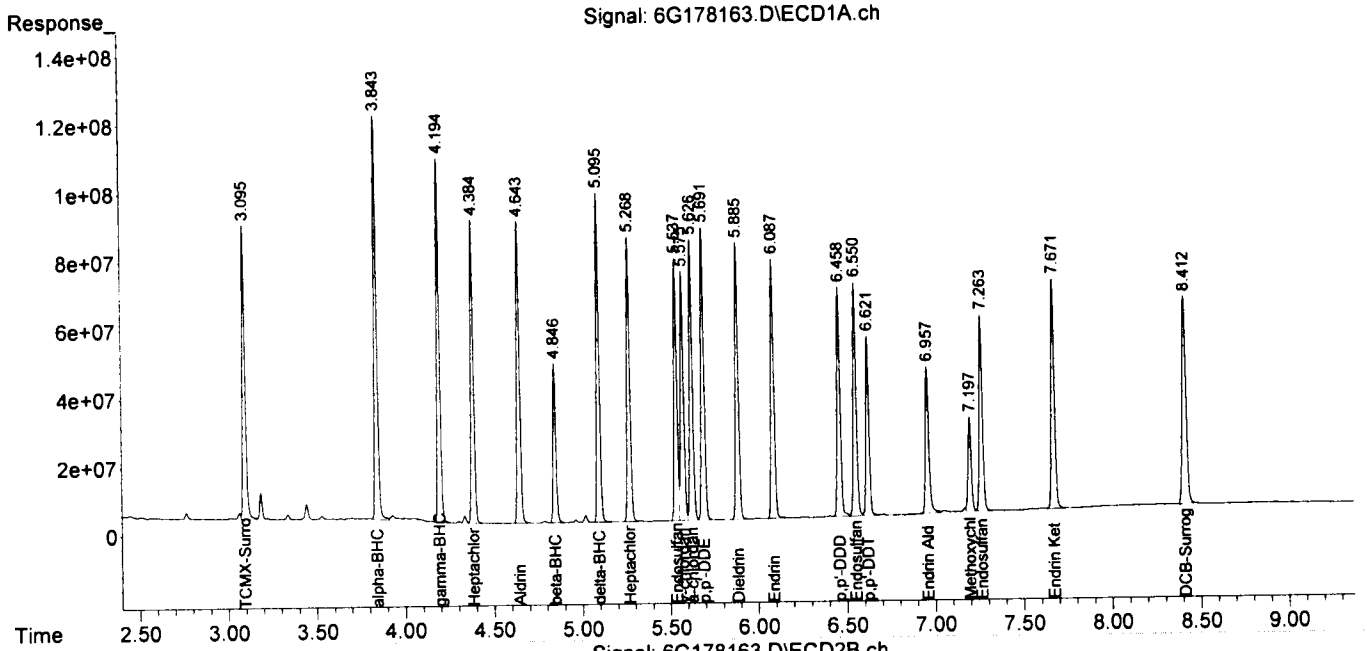
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

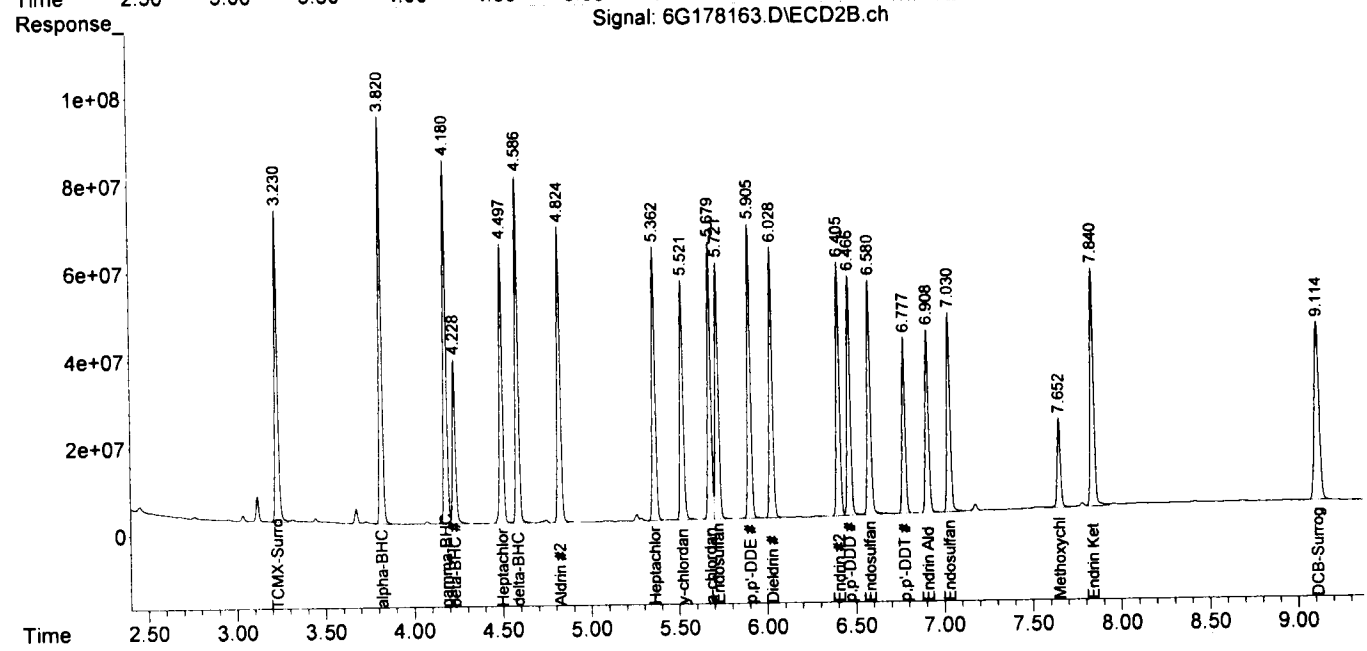
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\07-11-23\
Data File : 6G178163.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Jul 2023 16:48
Operator : AH/PR/KM
Sample : AD38798-004(MS:AD38798-002) (Sig #1); AD38798-004(MS) (Sig #2)
Misc : A,PEST
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 11 17:00:06 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Jul 05 11:39:32 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P
Signal #1 Info : .32
Signal #2 Phase: db-17
Signal #2 Info : .32





Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD38798-005(MSD:AD
Client Id: MW-2_6.22.23-MSD
Data File: 6G178164.D
Analysis Date: 07/11/23 17:00
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 990ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
5103-71-9	a-chlordane	0.010	0.50	53494-70-5	(^)Endrin Ketone	0.010	0.52
309-00-2	Aldrin	0.010	0.47	58-89-9	gamma-BHC	0.010	0.50
319-84-6	alpha-BHC	0.010	0.53	76-44-8	(^)Heptachlor	0.010	0.49
319-85-7	(^)beta-BHC	0.010	0.49	1024-57-3	Heptachlor Epoxide	0.010	0.49
319-86-8	delta-BHC	0.010	0.46	72-43-5	(^)Methoxychlor	0.014	0.52
60-57-1	(^)Dieldrin	0.010	0.48	72-54-8	(^)p,p'-DDD	0.010	0.53
959-98-8	(^)Endosulfan I	0.010	0.50	72-55-9	p,p'-DDE	0.010	0.52
33213-65-9	(^)Endosulfan II	0.010	0.53	50-29-3	(^)p,p'-DDT	0.010	0.49
1031-07-8	(^)Endosulfan Sulfate	0.010	0.50	8001-35-2	Toxaphene	0.25	U
72-20-8	Endrin	0.010	0.51	5103-74-2	(^)y-chlordane	0.010	0.44
7421-93-4	(^)Endrin Aldehyde	0.010	0.56	57-74-9	Chlordane (Total)	0.010	0.94

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\07-11-23\
Data File : 6G178164.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Jul 2023 17:00
Operator : AH/PR/KM
Sample : AD38798-005(MSD:AD38798-002) (Sig #1); AD38798-005(MSD) (Sig #2)
Misc : A,PEST
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 11 17:23:35 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Jul 05 11:39:32 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.089	3.231	879.4E6	735.7E6	93.340	93.396
2)alpha-BHC	3.835	3.820	1389.7E6	997.8E6	103.978	92.810
3)gamma-BHC	4.186	4.180	1185.9E6	910.4E6	98.716	93.603
4)beta-BHC	4.837	4.228	510.2E6	430.1E6	95.350	96.205
5)Heptachlor	4.376	4.495	1017.9E6	776.1E6	94.336	97.916
6)delta-BHC	5.086	4.585	1051.4E6	883.5E6	91.963	91.697
7)Aldrin	4.635	4.823	1031.2E6	820.9E6	92.381	91.449
8)Heptachlor Epoxid	5.259	5.360	968.0E6	763.5E6	97.330	95.793
9)y-chlordane	5.566	5.519	858.8E6	703.2E6	86.626	87.468
10)a-chlordane	5.616	5.677	966.0E6	767.0E6	98.653	97.087
11)Endosulfan I	5.527	5.719	883.2E6	743.8E6	97.801	99.482
12)p,p'-DDE	5.682	5.901	998.8E6	806.7E6	103.131	103.077
13)Dieldrin	5.876	6.026	958.7E6	775.9E6	94.493	94.611
14)Endrin	6.077	6.402	927.4E6	721.5E6	101.479	101.279
15)p,p'-DDD	6.449	6.463	829.0E6	683.1E6	104.387	105.067
16)Endosulfan II	6.540	6.577	854.8E6	716.2E6	101.849	104.263
17)p,p'-DDT	6.611	6.773	642.9E6	498.2E6	91.437	96.083
18)Endrin Aldehyde	6.947	6.905	596.4E6	559.7E6	109.325	110.886
19)Endosulfan Sulfat	7.253	7.027	731.5E6	603.8E6	95.900	98.034
20)Methoxychlor	7.187	7.647	351.3E6	283.0E6	87.668	102.701
21)Endrin Ketone	7.662	7.837	876.3E6	762.4E6	99.504	103.219
22)DCB-Surrogate	8.401	9.107	933.0E6	759.3E6	117.817	117.553

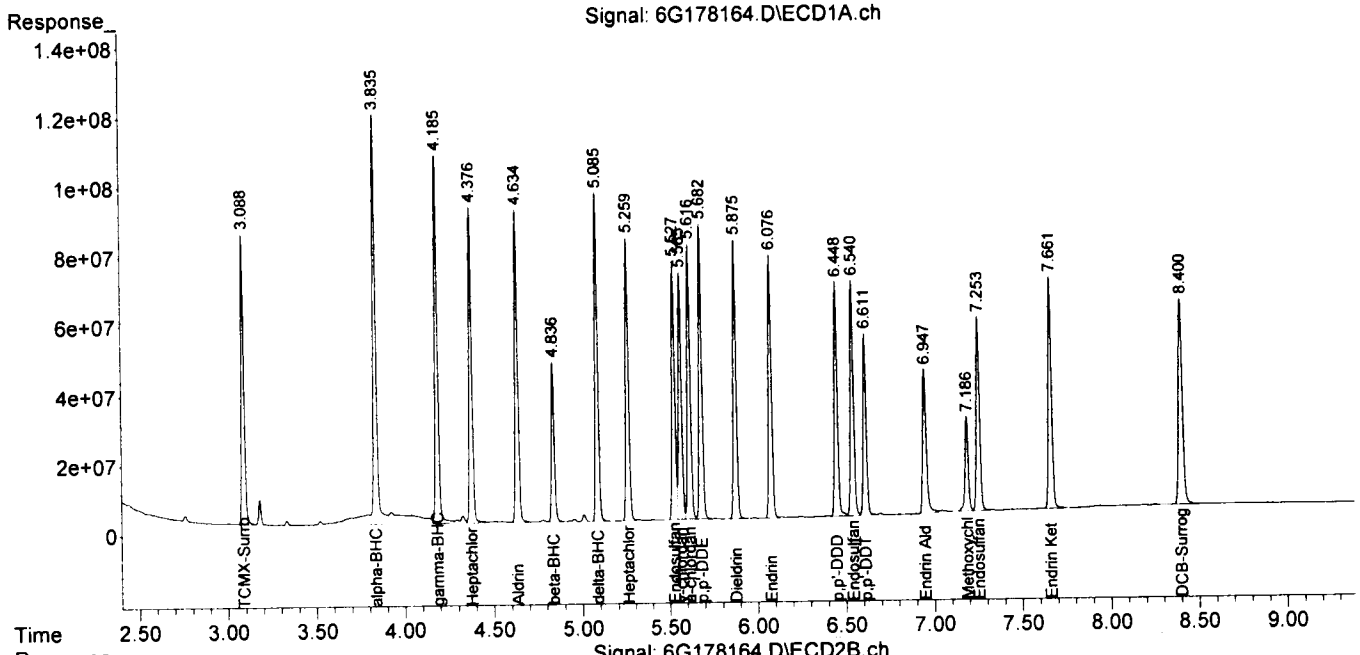
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

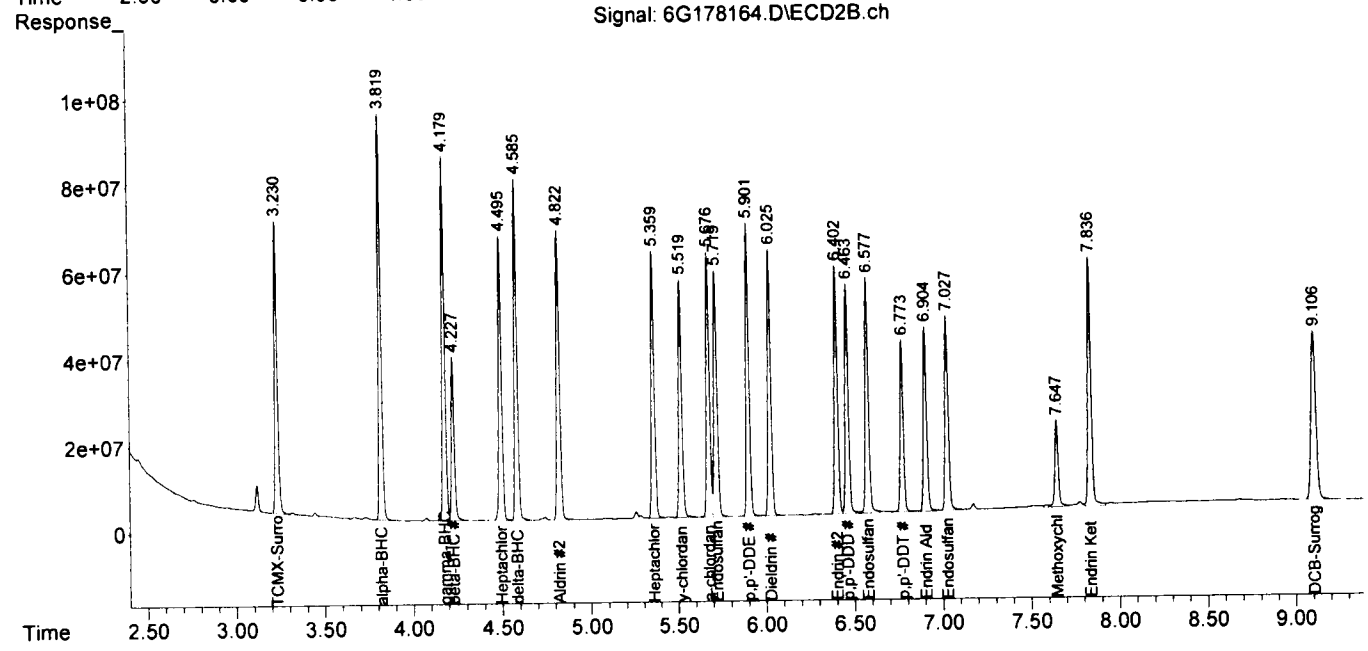
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\07-11-23\
Data File : 6G178164.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Jul 2023 17:00
Operator : AH/PR/KM
Sample : AD38798-005(MSD:AD38798-002) (Sig #1); AD38798-005(MSD) (Sig #2)
Misc : A,PEST
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 11 17:23:35 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Jul 05 11:39:32 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P
Signal #1 Info : .32
Signal #2 Phase: db-17
Signal #2 Info : .32





Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD38798-006
Client Id: DUP-1
Data File: 3G149272.D
Analysis Date: 06/30/23 15:56
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 985ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
5103-71-9	a-chlordane	0.010	U	53494-70-5	Endrin Ketone	0.010	U
309-00-2	Aldrin	0.010	U	58-89-9	gamma-BHC	0.010	U
319-84-6	alpha-BHC	0.010	U	76-44-8	Heptachlor	0.010	U
319-85-7	beta-BHC	0.010	U	1024-57-3	Heptachlor Epoxide	0.010	U
319-86-8	delta-BHC	0.010	U	72-43-5	Methoxychlor	0.015	U
60-57-1	Dieldrin	0.010	U	72-54-8	p,p'-DDD	0.010	U
959-98-8	Endosulfan I	0.010	U	72-55-9	p,p'-DDE	0.010	U
33213-65-9	Endosulfan II	0.010	U	50-29-3	p,p'-DDT	0.010	U
1031-07-8	Endosulfan Sulfate	0.010	U	8001-35-2	Toxaphene	0.25	U
72-20-8	Endrin	0.010	U	5103-74-2	y-chlordane	0.010	U
7421-93-4	Endrin Aldehyde	0.010	U	57-74-9	Chlordane (Total)	0.010	U

Worksheet #: 699675

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\06-30-23\
Data File : 3G149272.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jun 2023 15:56
Operator : AH//PR/KM
Sample : AD38798-006
Misc : A,PEST
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 16:10:59 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:43:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
	Target Compounds						
1)	TCMX-Surrogate	3.140	3.173	1092.2E6	882.4E6	109.479	103.255m
22)	DCB-Surrogate	8.525	9.009	1208.0E6	883.2E6	128.708	136.657

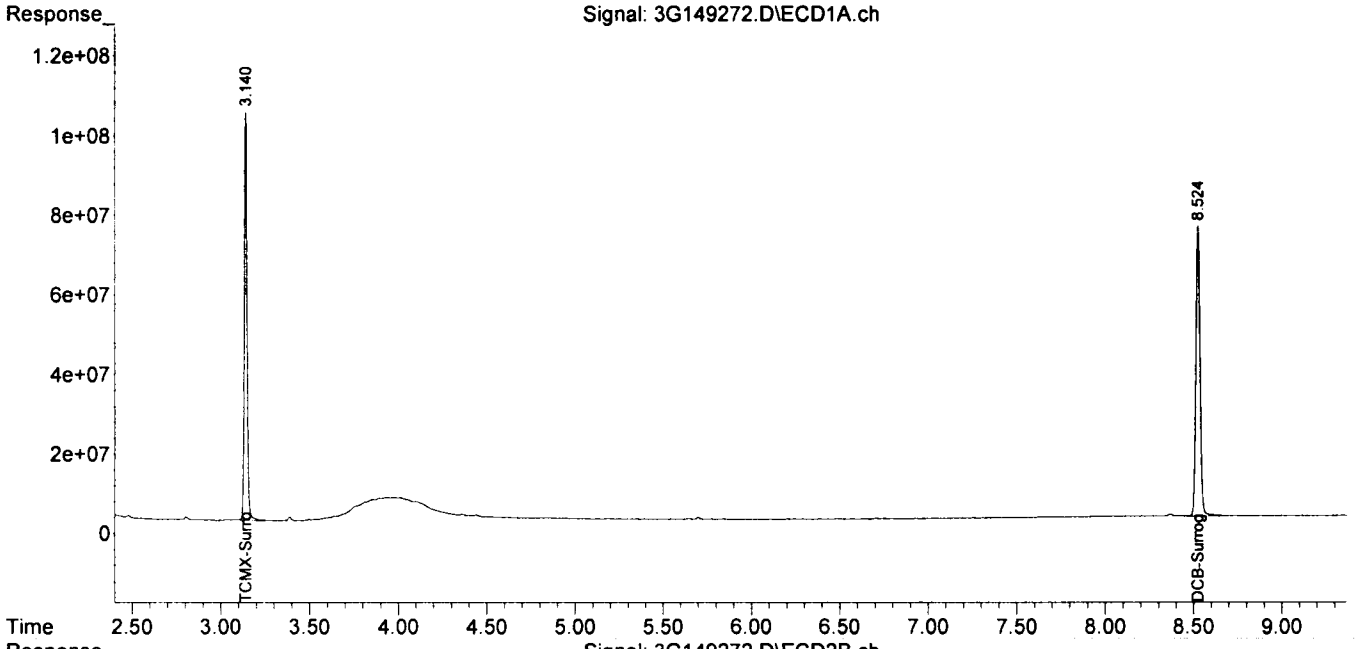
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

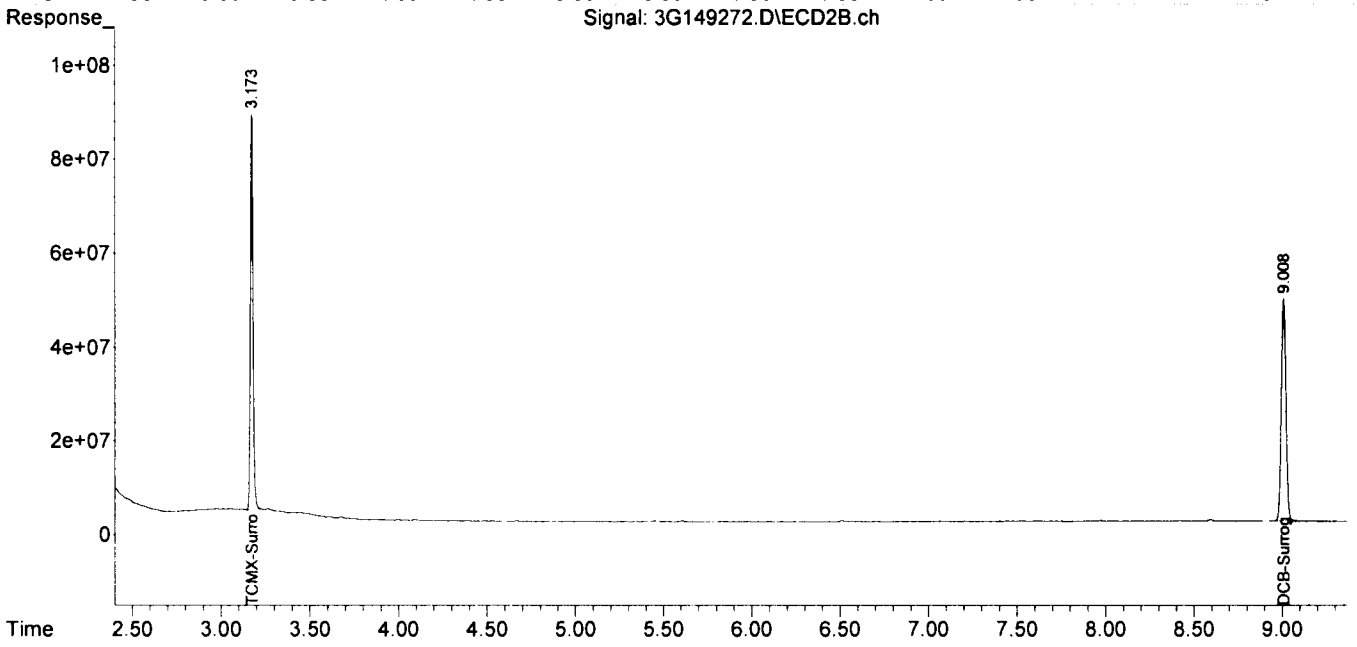
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\06-30-23\
Data File : 3G149272.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jun 2023 15:56
Operator : AH//PR/KM
Sample : AD38798-006
Misc : A,PEST
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 16:10:59 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:43:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD38798-007
Client Id: Field Blank
Data File: 3G149271.D
Analysis Date: 06/30/23 15:44
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 965ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
5103-71-9	a-chlordane	0.010	U	53494-70-5	Endrin Ketone	0.010	U
309-00-2	Aldrin	0.010	U	58-89-9	gamma-BHC	0.010	U
319-84-6	alpha-BHC	0.010	U	76-44-8	Heptachlor	0.010	U
319-85-7	beta-BHC	0.010	U	1024-57-3	Heptachlor Epoxide	0.010	U
319-86-8	delta-BHC	0.010	U	72-43-5	Methoxychlor	0.015	U
60-57-1	Dieldrin	0.010	U	72-54-8	p,p'-DDD	0.010	U
959-98-8	Endosulfan I	0.010	U	72-55-9	p,p'-DDE	0.010	U
33213-65-9	Endosulfan II	0.010	U	50-29-3	p,p'-DDT	0.010	U
1031-07-8	Endosulfan Sulfate	0.010	U	8001-35-2	Toxaphene	0.26	U
72-20-8	Endrin	0.010	U	5103-74-2	y-chlordane	0.010	U
7421-93-4	Endrin Aldehyde	0.010	U	57-74-9	Chlordane (Total)	0.010	U

Worksheet #: 699675

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\06-30-23\
Data File : 3G149271.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jun 2023 15:44
Operator : AH//PR/KM
Sample : AD38798-007
Misc : A,PEST
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 16:10:06 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:43:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
	Target Compounds						
1)	TCMX-Surrogate	3.141	3.174	1090.0E6	886.5E6	109.261	103.735
22)	DCB-Surrogate	8.526	9.009	1023.7E6	747.4E6	109.078	115.645

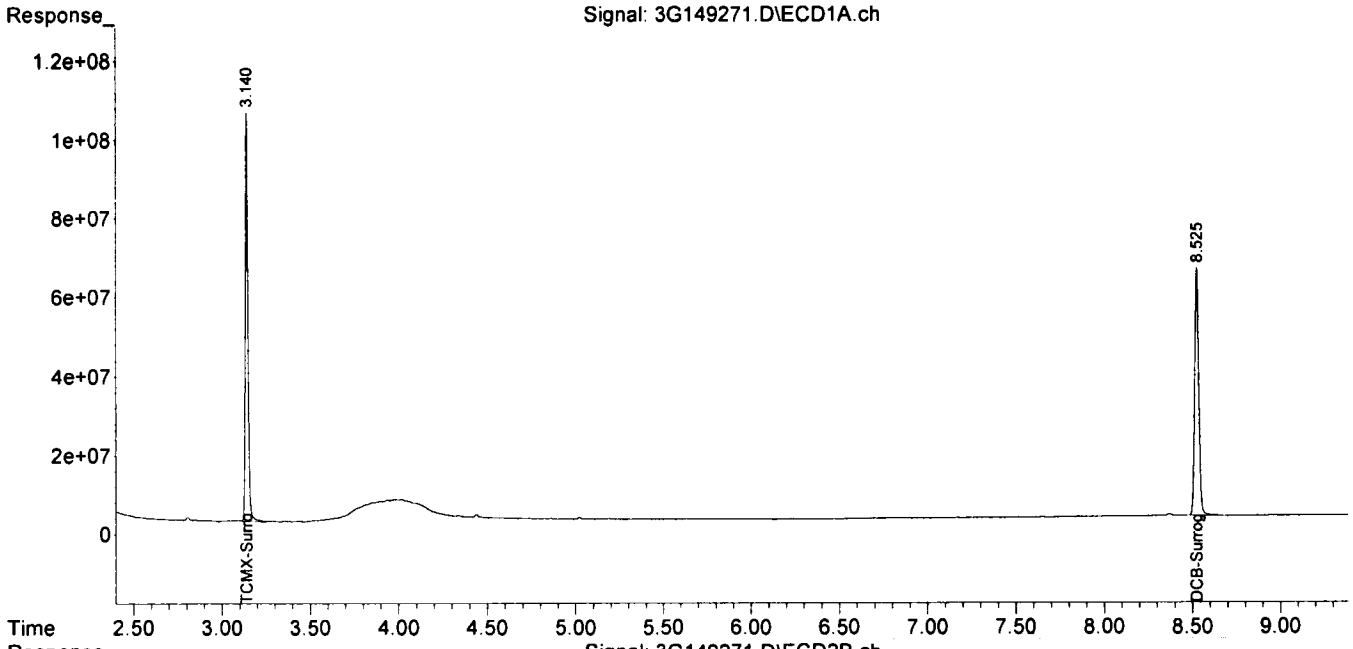
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

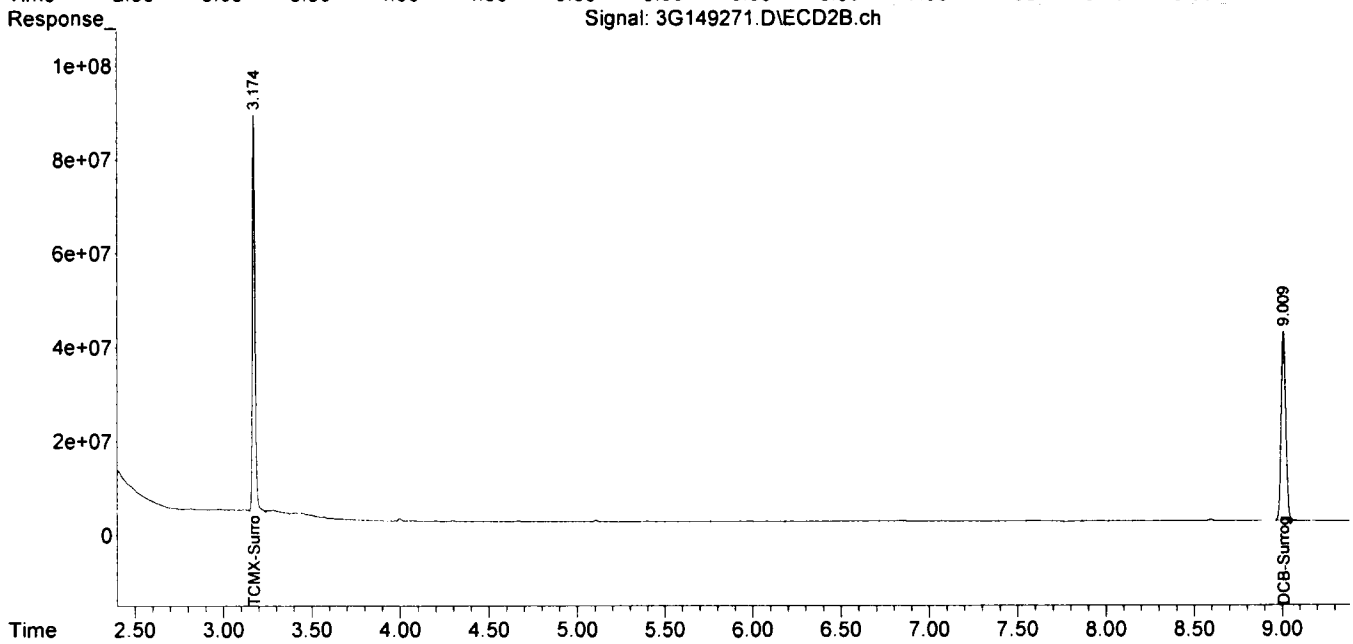
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\06-30-23\
Data File : 3G149271.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jun 2023 15:44
Operator : AH//PR/KM
Sample : AD38798-007
Misc : A,PEST
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 16:10:06 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:43:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





GC Pesticide Data
Standards Data

3062404 0573

Form 6

Initial Calibration

Method: EPA 8081B

Instrument: GC_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3G148106.D	CAL PEST@2PPB	06/02/23 16:02	2	3G148107.D	CAL PEST@10PPB	06/02/23 16:14
3	3G148109.D	CAL PEST@50PPB	06/02/23 16:37	4	3G148110.D	CAL PEST@100PPB	06/02/23 16:49
5	3G148111.D	CAL PEST@200PPB	06/02/23 17:01	6	3G148112.D	CAL PEST@400PPB	06/02/23 17:13
7	3G148113.D	CAL CHLORO@100P	06/02/23 17:24				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
TCMX-Surrogate	1	0	Avg	915.23	1016.6	1001.0	1031.3	1020.2	1001.3	----	----	998	3.16	1.00	1.00	4.2	2.00	10.00	50.00	100.0	200.0	400.0		
alpha-BHC	1	0	Avg	1431.9	1459.4	1426.0	1465.3	1502.2	1481.9	----	----	1460	3.92	1.00	1.00	2.0	2.00	10.00	50.00	100.0	200.0	400.0		
gamma-BHC	1	0	Avg	1050.1	1243.3	1293.7	1328.7	1401.7	1344.4	----	----	1280	4.28	0.999	1.00	9.6	2.00	10.00	50.00	100.0	200.0	400.0		
beta-BHC	1	0	Avg	541.40	566.94	552.15	560.68	563.67	550.08	----	----	556	4.94	1.00	1.00	1.7	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor	1	0	Avg	1099.6	1212.4	1253.5	1294.5	1306.9	1283.1	----	----	1240	4.48	1.00	1.00	6.2	2.00	10.00	50.00	100.0	200.0	400.0		
delta-BHC	1	0	Avg	976.04	1126.9	1226.0	1283.3	1313.6	1311.6	----	----	1210	5.19	1.00	1.00	11	2.00	10.00	50.00	100.0	200.0	400.0		
Aldrin	1	0	Avg	998.48	1148.3	1229.1	1265.6	1288.4	1272.1	----	----	1200	4.74	1.00	1.00	9.2	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor Epoxide	1	0	Avg	971.89	1061.4	1095.7	1129.0	1150.7	1129.3	----	----	1090	5.38	1.00	1.00	6.0	2.00	10.00	50.00	100.0	200.0	400.0		
g-chlordane	1	0	Avg	941.56	1031.6	1079.4	1118.7	1139.5	1124.8	----	----	1070	5.69	1.00	1.00	7.0	2.00	10.00	50.00	100.0	200.0	400.0		
a-chlordane	1	0	Avg	943.29	1032.8	1058.0	1090.0	1108.3	1089.2	----	----	1050	5.74	1.00	1.00	5.7	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan I	1	0	Avg	912.81	949.59	985.59	1017.9	1035.1	1018.7	----	----	987	5.65	1.00	1.00	4.8	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDE	1	0	Avg	839.71	977.05	1058.7	1106.4	1137.6	1126.9	----	----	1040	5.81	1.00	1.00	11	2.00	10.00	50.00	100.0	200.0	400.0		
Dieldrin	1	0	Avg	903.09	1039.1	1118.9	1166.0	1195.1	1184.6	----	----	1100	6.00	1.00	1.00	10	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin	1	0	Avg	789.40	885.50	921.24	948.28	982.60	950.02	----	----	913	6.21	1.00	1.00	7.5	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDD	1	0	Avg	715.44	791.74	857.19	901.34	918.19	912.49	----	----	849	6.58	1.00	1.00	9.5	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan II	1	0	Avg	809.98	886.41	926.33	959.06	973.06	962.26	----	----	920	6.67	1.00	1.00	6.8	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDT	1	0	Avg	540.79	628.07	719.20	763.80	815.76	827.85	----	----	716	6.75	0.998	0.999	16	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Aldehyde	1	0	Avg	544.64	597.14	630.11	652.14	661.67	670.90	----	----	626	7.09	1.00	1.00	7.6	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan Sulfate	1	0	Avg	750.63	797.29	834.49	857.96	871.39	875.31	----	----	831	7.40	1.00	1.00	5.9	2.00	10.00	50.00	100.0	200.0	400.0		
Methoxychlor	1	0	Avg	307.95	357.06	386.45	404.29	429.09	434.80	----	----	387	7.34	0.999	1.00	12	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Ketone	1	0	Avg	847.08	898.16	943.02	979.84	1009.7	1016.3	----	----	949	7.81	1.00	1.00	7.0	2.00	10.00	50.00	100.0	200.0	400.0		
DCB-Surrogate	1	0	Avg	979.40	993.14	942.56	930.23	910.72	875.11	----	----	939	8.58	1.00	1.00	4.7	2.00	10.00	50.00	100.0	200.0	400.0		
Chlordane (Technical)	1	1	Avg	----	----	----	----	----	----	----	----	62.9	4.48	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	1	2	Avg	----	----	----	----	----	----	----	----	111	5.69	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	1	3	Avg	----	----	----	----	----	----	----	----	159	5.74	-1	-1	Lvl=7	100.0							
Toxaphene	1	1	Avg	10.484	10.221	9.6826	9.7771	10.342	9.8304	----	----	10.1	6.02	0.999	1.00	3.3	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	1	2	Avg	15.875	12.469	13.618	14.344	15.159	14.963	----	----	14.4	6.31	1.00	1.00	8.5	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	1	3	Avg	12.337	12.177	11.938	12.029	13.523	12.232	----	----	12.4	6.60	0.997	0.998	4.7	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	1	4	Avg	10.867	12.112	12.417	12.838	14.150	13.639	----	----	12.7	6.96	0.999	0.999	9.2	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	1	5	Avg	12.608	15.625	17.018	18.629	20.887	20.446	----	----	17.5	7.33	0.999	0.999	18	50.00	200.0	500.0	1000.	2000.	4000.		
TCMX-Surrogate	2	0	Avg	818.48	863.86	869.90	870.87	868.76	835.82	----	----	855	3.19	1.00	1.00	2.6	2.00	10.00	50.00	100.0	200.0	400.0		
alpha-BHC	2	0	Avg	894.96	1149.8	1158.9	1213.9	1251.5	1222.8	----	----	1150	3.78	1.00	1.00	11	2.00	10.00	50.00	100.0	200.0	400.0		
gamma-BHC	2	0	Avg	834.01	961.58	1044.1	1090.1	1114.7	1093.7	----	----	1020	4.14	1.00	1.00	11	2.00	10.00	50.00	100.0	200.0	400.0		
beta-BHC	2	0	Avg	440.70	466.37	453.39	462.87	471.00	456.65	----	----	459	4.19	1.00	1.00	2.4	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor	2	0	Avg	829.54	902.76	963.63	1007.6	1036.4	1016.7	----	----	959	4.45	1.00	1.00	8.3	2.00	10.00	50.00	100.0	200.0	400.0		
delta-BHC	2	0	Avg	747.28	887.56	1003.3	1062.6	1095.1	1083.3	----	----	980	4.54	1.00	1.00	14	2.00	10.00	50.00	100.0	200.0	400.0		

Avg Rsd Col 1: 7.76 Avg Rsd Col 2: 10.08

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

3062404 0574

Form 6
Initial Calibration

Method: EPA 8081B

Instrument: GC_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3G148106.D	CAL PEST@2PPB	06/02/23 16:02	2	3G148107.D	CAL PEST@10PPB	06/02/23 16:14
3	3G148109.D	CAL PEST@50PPB	06/02/23 16:37	4	3G148110.D	CAL PEST@100PPB	06/02/23 16:49
5	3G148111.D	CAL PEST@200PPB	06/02/23 17:01	6	3G148112.D	CAL PEST@400PPB	06/02/23 17:13
7	3G148113.D	CAL CHLORO@100P	06/02/23 17:24				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Aldrin	2	0	Avg	740.74	871.38	966.79	1011.2	1041.2	1018.8	----	----	942	4.78	1.00	1.00	12	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor Epoxide	2	0	Avg	718.85	795.24	855.33	890.28	918.59	898.76	----	----	846	5.32	1.00	1.00	9.0	2.00	10.00	50.00	100.0	200.0	400.0		
v-chlordane	2	0	Avg	700.46	772.53	841.78	881.84	910.70	892.84	----	----	833	5.48	1.00	1.00	9.8	2.00	10.00	50.00	100.0	200.0	400.0		
a-chlordane	2	0	Avg	684.23	764.96	815.20	856.00	878.98	863.21	----	----	810	5.64	1.00	1.00	9.2	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan I	2	0	Avg	658.18	721.16	779.77	820.02	846.90	831.76	----	----	776	5.68	1.00	1.00	9.5	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDE	2	0	Avg	615.54	726.45	816.09	863.72	905.22	892.48	----	----	803	5.86	1.00	1.00	14	2.00	10.00	50.00	100.0	200.0	400.0		
Dieldrin	2	0	Avg	656.99	765.42	854.90	910.39	954.23	941.49	----	----	847	5.98	1.00	1.00	14	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin	2	0	Avg	556.86	618.98	685.79	723.27	762.26	748.27	----	----	683	6.36	1.00	1.00	12	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDD	2	0	Avg	526.07	606.89	686.88	726.70	758.09	753.10	----	----	676	6.42	1.00	1.00	14	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan II	2	0	Avg	584.95	663.15	716.93	753.84	780.75	771.72	----	----	712	6.54	1.00	1.00	11	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDT	2	0	Avg	463.95	526.95	603.37	655.07	705.14	712.18	----	----	611	6.73	1.00	1.00	16	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Aldehyde	2	0	Avg	455.65	498.80	531.05	561.95	579.84	585.15	----	----	535	6.86	1.00	1.00	9.5	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan Sulfate	2	0	Avg	533.47	577.08	614.46	650.82	664.08	664.70	----	----	617	6.99	1.00	1.00	8.6	2.00	10.00	50.00	100.0	200.0	400.0		
Methoxychlor	2	0	Avg	306.46	306.77	325.47	342.92	362.17	362.90	----	----	334	7.61	1.00	1.00	7.7	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Ketone	2	0	Avg	628.28	699.41	762.46	811.73	839.13	843.49	----	----	764	7.80	1.00	1.00	11	2.00	10.00	50.00	100.0	200.0	400.0		
DCB-Surrogate	2	0	Avg	619.41	645.82	642.46	659.44	660.32	650.39	----	----	646	9.05	1.00	1.00	2.3	2.00	10.00	50.00	100.0	200.0	400.0		
Chlordane (Technical)	2	1	Avg	----	----	----	----	----	----	----	----	49.3	4.45	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	2	2	Avg	----	----	----	----	----	----	----	----	102	5.48	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	2	3	Avg	----	----	----	----	----	----	----	----	71.0	5.63	-1	-1	Lvl=7	100.0							
Toxaphene	2	1	Avg	6.1000	6.2224	6.4989	6.5020	6.9542	7.0345	----	----	6.55	6.08	1.00	1.00	5.8	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	2	2	Avg	9.6717	11.119	10.900	11.179	12.136	11.818	----	----	11.1	6.77	0.999	1.00	7.7	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	2	3	Avg	4.4569	5.9589	5.6319	5.9717	6.6094	6.8260	----	----	5.91	7.24	0.999	1.00	14	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	2	4	Avg	10.906	12.337	13.232	14.094	15.332	15.240	----	----	13.5	7.39	1.00	1.00	13	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	2	5	Avg	7.9994	8.4319	8.6043	9.2788	10.856	10.958	----	----	9.35	7.45	0.999	0.999	14	50.00	200.0	500.0	1000.	2000.	4000.		

Avg Rsd Col 1: 7.76 Avg Rsd Col 2: 10.08

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq
Corr 2 = Correlation Coefficient for quad Eq

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0602-23\
Data File : 3G148106.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 16:02
Operator : AH//PR/KM
Sample : CAL PEST@2PPB
Misc : S,PEST
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 09:42:44 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.159	3.190	18304717	16369716	1.870m	1.826m
2)alpha-BHC	3.924	3.779	28638600	17899268	2.082m	1.477m#
3)gamma-BHC	4.280	4.138	21002879	16680205	1.726m	1.533m
4)beta-BHC	4.939	4.185	10828069	8814119	1.932	1.695m
5)Heptachlor	4.480	4.454	21992726	16590946	2.224m	2.087m
6)delta-BHC	5.192	4.542	19520807	14945647	1.650	1.373
7)Aldrin	4.743	4.780	19969787	14814822	1.698m	1.450m
8)Heptachlor Epoxid	5.378	5.318	19437872	14377006	1.871m	1.555m
9)y-chlordane	5.688	5.477	18831344	14009277	1.719	1.509m
10)a-chlordane	5.741	5.636	18865806	13684689	1.806	1.520
11)Endosulfan I	5.651	5.678	18256340	13163666	2.019	1.508 #
12)p,p'-DDE	5.808	5.862	16794370	12310932	1.658	1.406m
13)Dieldrin	6.003	5.984	18061913	13139848	1.703m	1.393m
14)Endrin	6.205	6.360	15788006	11137219	2.500m	1.904m
15)p,p'-DDD	6.585	6.423	14308907	10521547	1.544	1.362
16)Endosulfan II	6.675	6.535	16199714	11699085	1.804	1.447m
17)p,p'-DDT	6.751	6.734	10815817	9279110	2.715	1.746m#
18)Endrin Aldehyde	7.091	6.864	10892865	9113074	1.799m	1.404m
19)Endosulfan Sulfat	7.401	6.986	15012605	10669544	1.868m	1.495m
20)Methoxychlor	7.341	7.612	6159098	6129294	2.599m	2.214m
21)Endrin Ketone	7.807	7.796	16941795	12565674	1.861m	1.413m
22)DCB-Surrogate	8.582	9.052	19588088	12388275	2.119m	1.615m
23)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

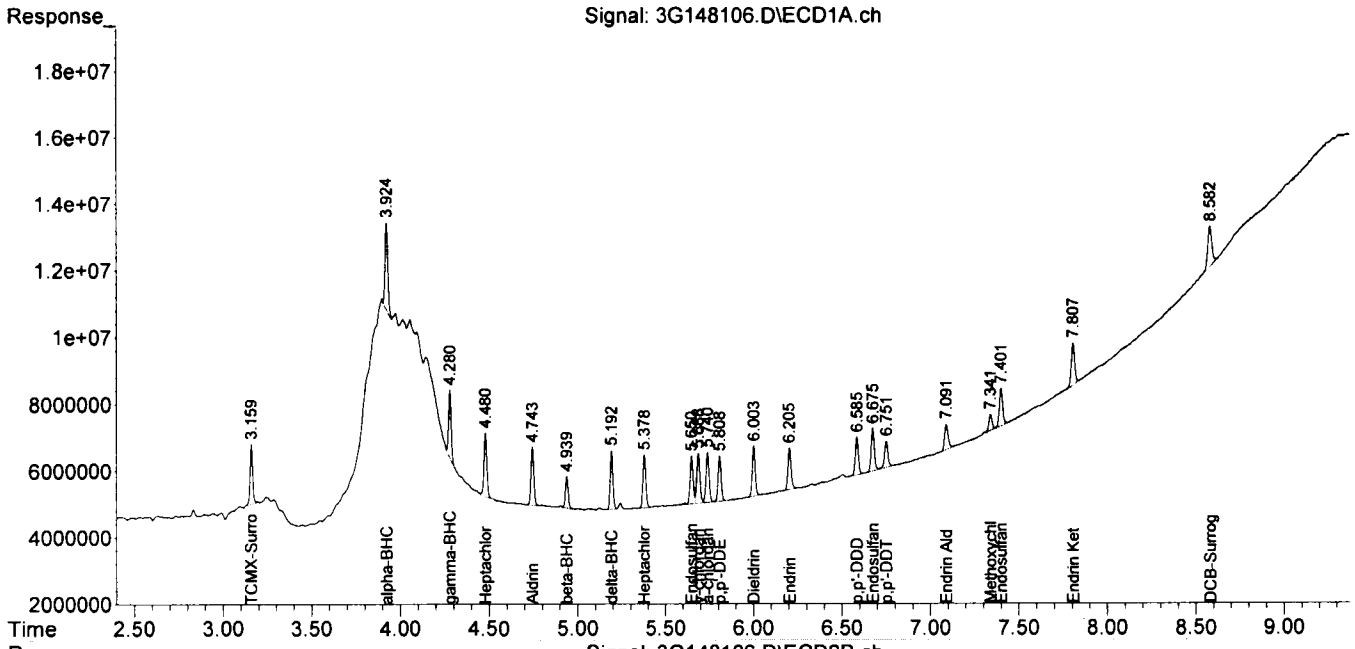
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

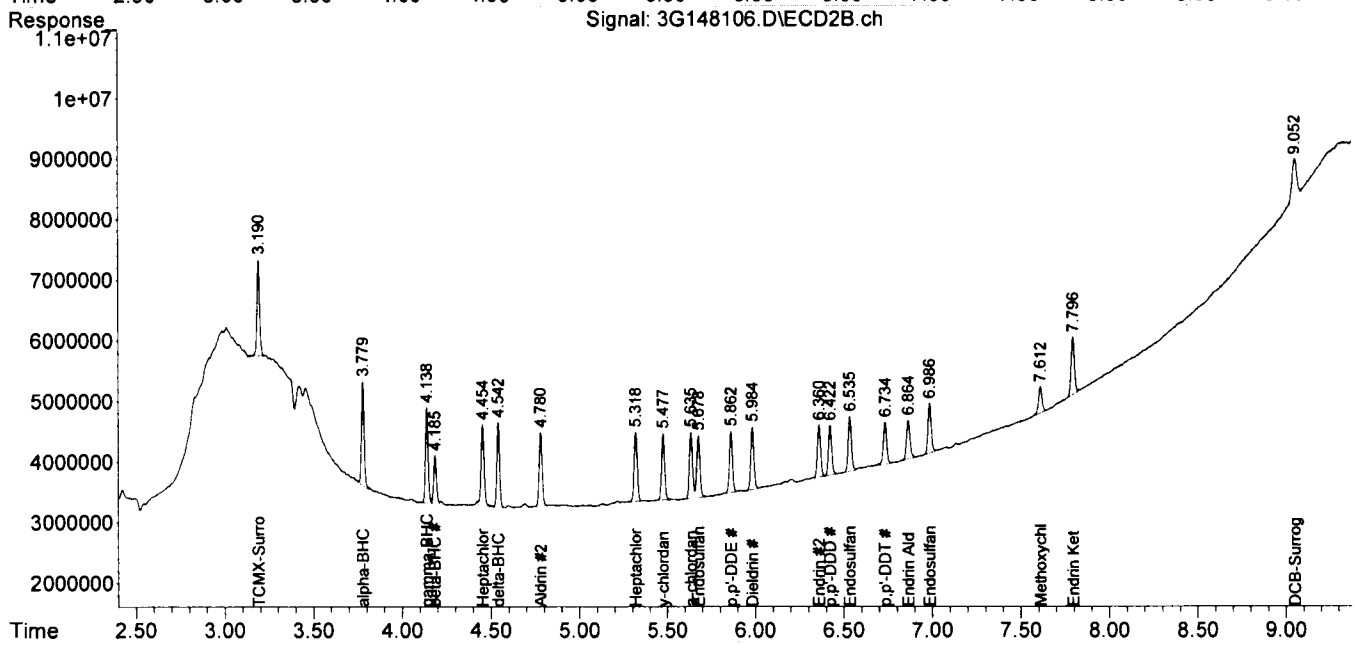
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0602-23\
Data File : 3G148106.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 16:02
Operator : AH//PR/KM
Sample : CAL PEST@2PPB
Misc : S,PEST
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 09:42:44 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2023\GC_3\Data\0602-23\
Data File : 3G148107.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 16:14
Operator : AH//PR/KM
Sample : CAL PEST@10PPB
Misc : S,PEST
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:43:36 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.159	3.191	101.7E6	86386608	10.388m	9.637m
2)alpha-BHC	3.923	3.780	145.9E6	115.0E6	10.612m	9.490
3)gamma-BHC	4.279	4.139	124.3E6	96158204	10.217m	8.837
4)beta-BHC	4.939	4.185	56694069	46637070	10.117	8.967
5)Heptachlor	4.480	4.454	121.2E6	90276876	12.259m	11.354
6)delta-BHC	5.191	4.542	112.7E6	88756614	9.528	8.154
7)Aldrin	4.743	4.781	114.8E6	87138190	9.761	8.526
8)Heptachlor Epoxid	5.377	5.318	106.1E6	79524670	10.217	8.599
9)y-chlordane	5.688	5.477	103.2E6	77253704	9.418	8.324
10)a-chlordane	5.739	5.636	103.3E6	76496224	9.888	8.498
11)Endosulfan I	5.650	5.677	94959524	72116756	10.504	8.263
12)p,p'-DDE	5.808	5.861	97705889	72645804	9.646	8.298m
13)Dieldrin	6.002	5.984	103.9E6	76542877	9.799m	8.116
14)Endrin	6.204	6.360	88550337	61898606	14.023m	10.582m
15)p,p'-DDD	6.585	6.423	79174954	60689626	8.544m	7.859
16)Endosulfan II	6.674	6.535	88641843	66315098	9.870	8.201
17)p,p'-DDT	6.751	6.734	62807311	52695838	15.443	9.852m#
18)Endrin Aldehyde	7.090	6.864	59714611	49880395	9.863m	7.686m
19)Endosulfan Sulfat	7.401	6.986	79729083	57708576	9.920	8.085
20)Methoxychlor	7.340	7.611	35706646	30677723	14.832	11.014m#
21)Endrin Ketone	7.806	7.795	89816963	69941886	9.868m	7.864m
22)DCB-Surrogate	8.582	9.052	99314091	64582783	10.741m	8.418m
23)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

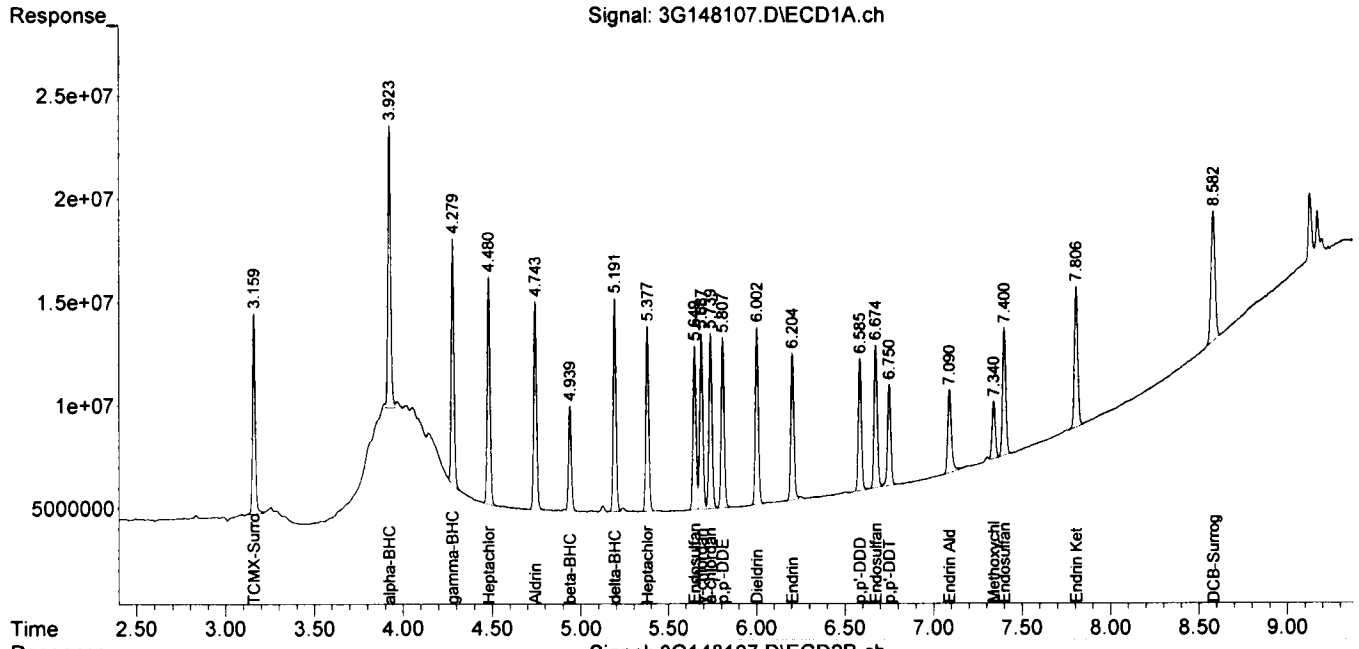
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

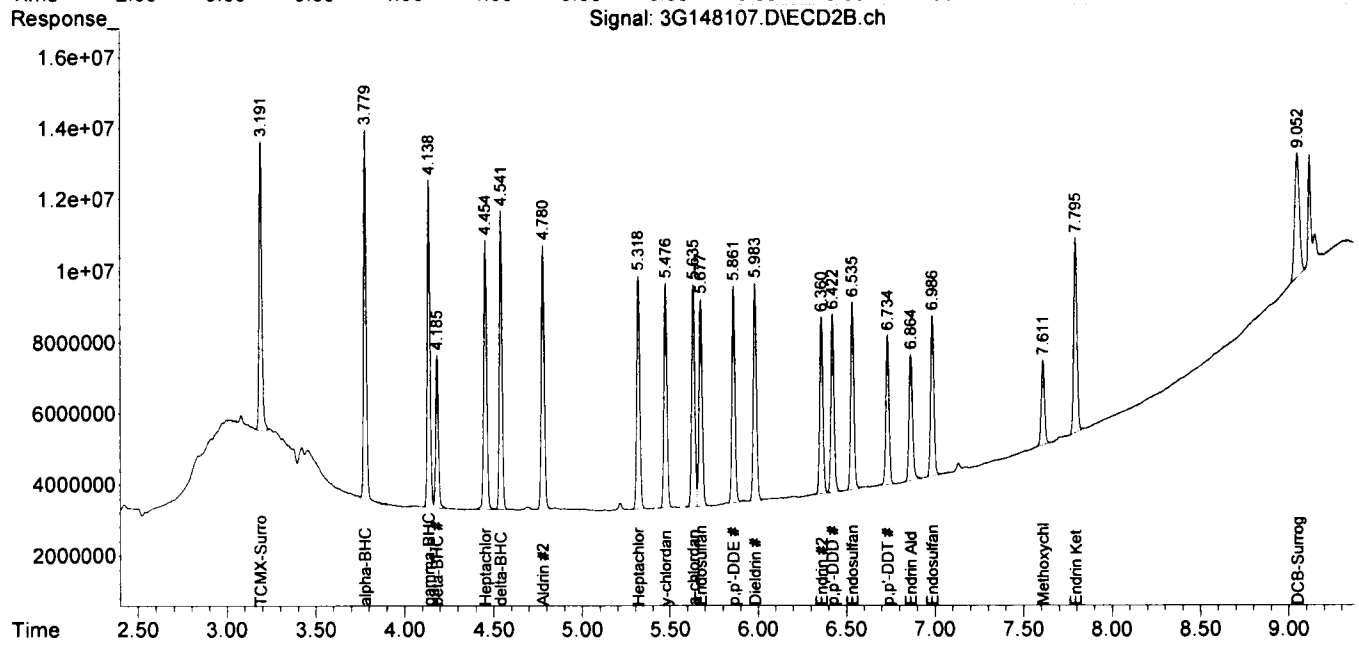
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0602-23\
Data File : 3G148107.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 16:14
Operator : AH//PR/KM
Sample : CAL PEST@10PPB
Misc : S,PEST
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:43:36 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0602-23\
Data File : 3G148109.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 16:37
Operator : AH//PR/KM
Sample : CAL PEST@50PPB
Misc : S,PEST
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:02:47 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.159	3.191	500.5E6	435.0E6	51.147m	48.523m
2)alpha-BHC	3.923	3.779	713.0E6	579.5E6	51.847m	47.826m
3)gamma-BHC	4.280	4.139	646.9E6	522.1E6	53.154m	47.976
4)beta-BHC	4.939	4.185	276.1E6	226.7E6	49.266	43.588
5)Heptachlor	4.480	4.454	626.8E6	481.8E6	63.369m	60.599m
6)delta-BHC	5.192	4.542	613.0E6	501.7E6	51.830	46.090
7)Aldrin	4.744	4.781	614.6E6	483.4E6	52.244	47.297
8)Heptachlor Epoxid	5.378	5.319	547.9E6	427.7E6	52.736	46.243
9)y-chlordane	5.688	5.477	539.7E6	420.9E6	49.269	45.351
10)a-chlordane	5.739	5.636	529.0E6	407.6E6	50.646	45.281
11)Endosulfan I	5.650	5.678	492.8E6	389.9E6	54.510	44.671
12)p,p'-DDE	5.808	5.862	529.4E6	408.0E6	52.264	46.609
13)Dieldrin	6.002	5.984	559.5E6	427.5E6	52.763	45.322
14)Endrin	6.205	6.360	460.6E6	342.9E6	72.947	58.623m
15)p,p'-DDD	6.585	6.423	428.6E6	343.4E6	46.252	44.473
16)Endosulfan II	6.674	6.535	463.2E6	358.5E6	51.575	44.328
17)p,p'-DDT	6.750	6.734	359.6E6	301.7E6	80.096	54.536m#
18)Endrin Aldehyde	7.090	6.865	315.1E6	265.5E6	52.036m	40.916m
19)Endosulfan Sulfat	7.401	6.986	417.2E6	307.2E6	51.916m	43.043
20)Methoxychlor	7.341	7.612	193.2E6	162.7E6	74.541	56.584m
21)Endrin Ketone	7.807	7.795	471.5E6	381.2E6	51.802	42.866
22)DCB-Surrogate	8.581	9.051	471.3E6	321.2E6	50.971m	41.869m
23)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

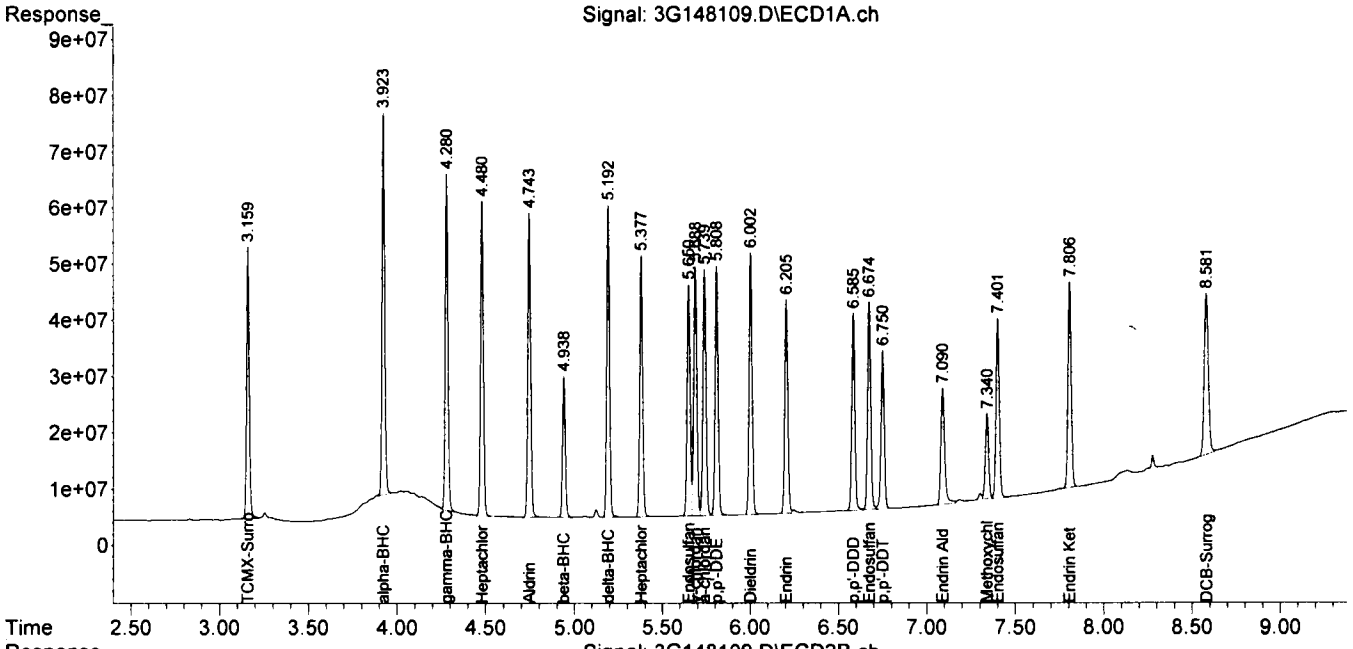
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

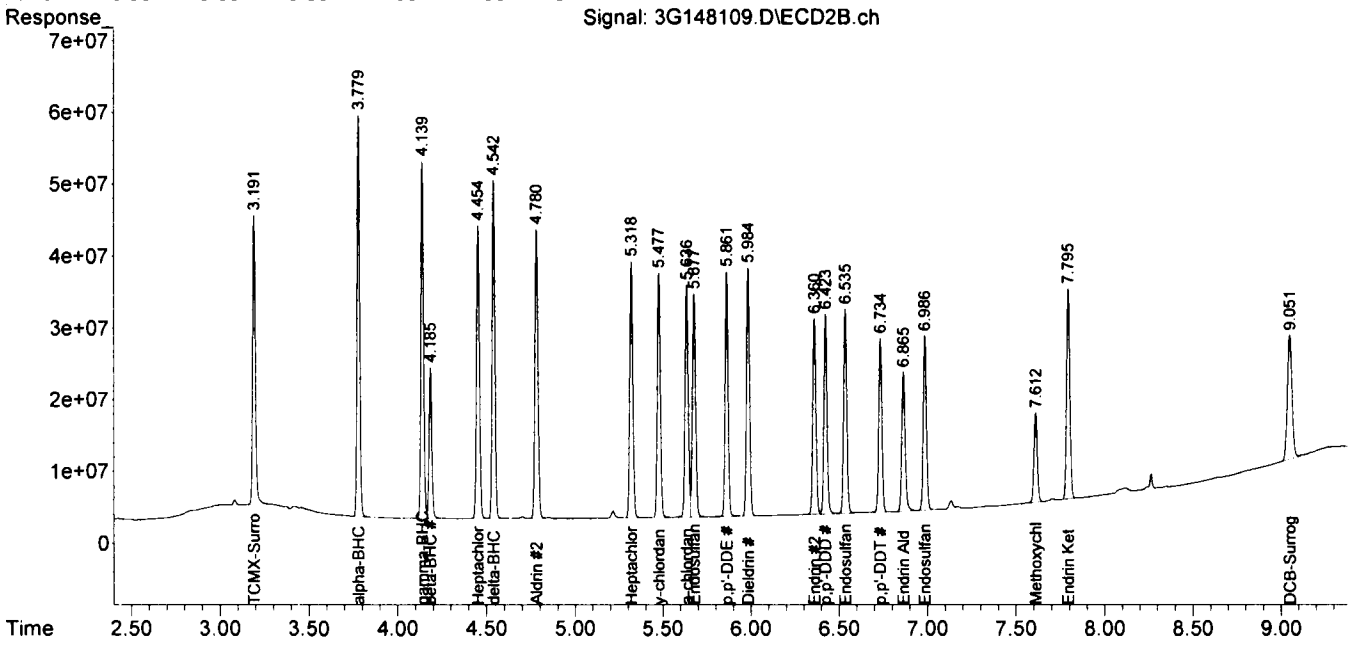
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0602-23\
Data File : 3G148109.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 16:37
Operator : AH//PR/KM
Sample : CAL PEST@50PPB
Misc : S,PEST
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:02:47 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0602-23\
Data File : 3G148110.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 16:49
Operator : AH//PR/KM
Sample : CAL PEST@100PPB
Misc : S,PEST
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:05:43 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.159	3.191	1031.3E6	870.9E6	105.388m	97.154m
2)alpha-BHC	3.923	3.779	1465.4E6	1214.0E6	106.553m	100.195m
3)gamma-BHC	4.279	4.139	1328.7E6	1090.1E6	109.182m	100.180
4)beta-BHC	4.938	4.185	560.7E6	462.9E6	100.055	88.998
5)Heptachlor	4.480	4.455	1294.6E6	1007.7E6	130.892	126.738
6)delta-BHC	5.192	4.542	1283.3E6	1062.6E6	108.500	97.624
7)Aldrin	4.744	4.781	1265.7E6	1011.3E6	107.592	98.948
8)Heptachlor Epoxid	5.377	5.319	1129.1E6	890.3E6	108.679	96.266
9)y-chlordane	5.688	5.478	1118.8E6	881.8E6	102.127	95.019
10)a-chlordane	5.739	5.636	1090.1E6	856.0E6	104.355	95.095
11)Endosulfan I	5.650	5.678	1017.9E6	820.0E6	112.594	93.953
12)p,p'-DDE	5.808	5.862	1106.4E6	863.7E6	109.233	98.660
13)Dieldrin	6.003	5.984	1166.0E6	910.4E6	109.963	96.528
14)Endrin	6.205	6.361	948.3E6	723.3E6	150.177	123.652
15)p,p'-DDD	6.585	6.425	901.3E6	726.7E6	97.267m	94.102
16)Endosulfan II	6.675	6.536	959.1E6	753.8E6	106.794	93.221
17)p,p'-DDT	6.751	6.734	763.8E6	655.1E6	153.668	113.467m#
18)Endrin Aldehyde	7.090	6.865	652.1E6	562.0E6	107.711	86.594
19)Endosulfan Sulfat	7.400	6.987	858.0E6	650.8E6	106.752	91.182
20)Methoxychlor	7.340	7.612	404.3E6	342.9E6	144.019	114.638m
21)Endrin Ketone	7.806	7.796	979.8E6	811.7E6	107.649	91.272
22)DCB-Surrogate	8.581	9.053	930.2E6	659.4E6	100.609m	85.951m
23)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

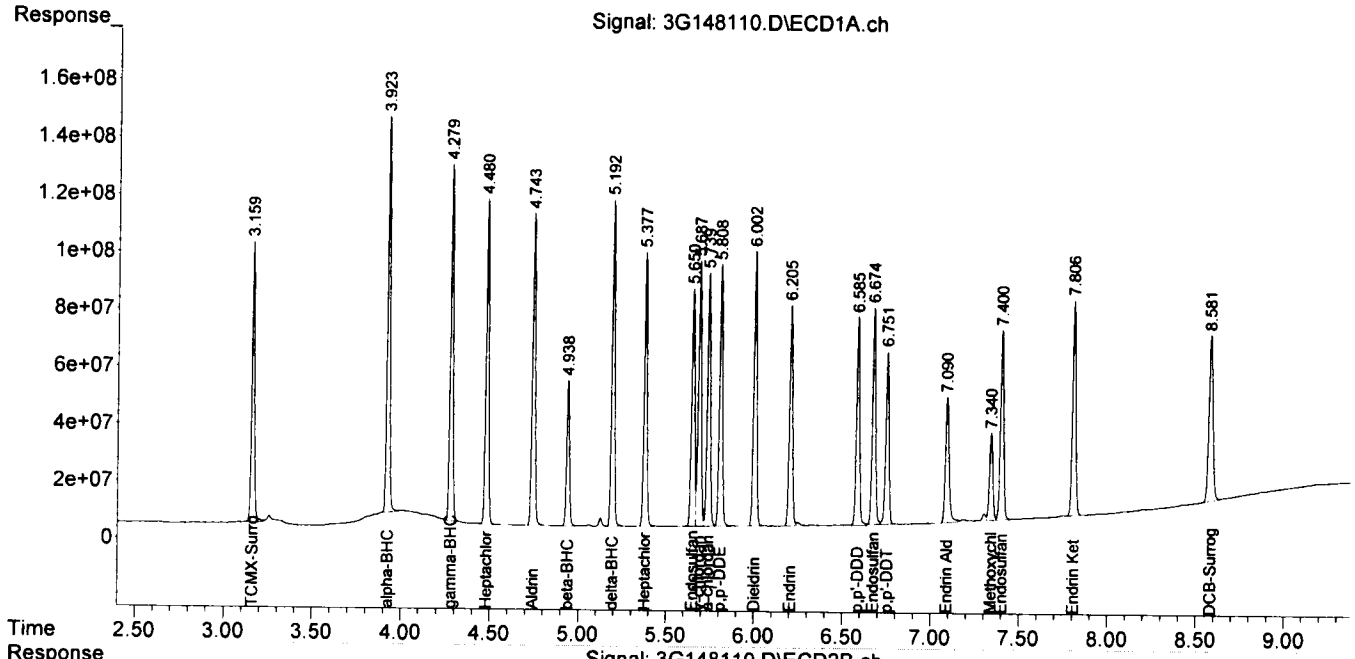
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

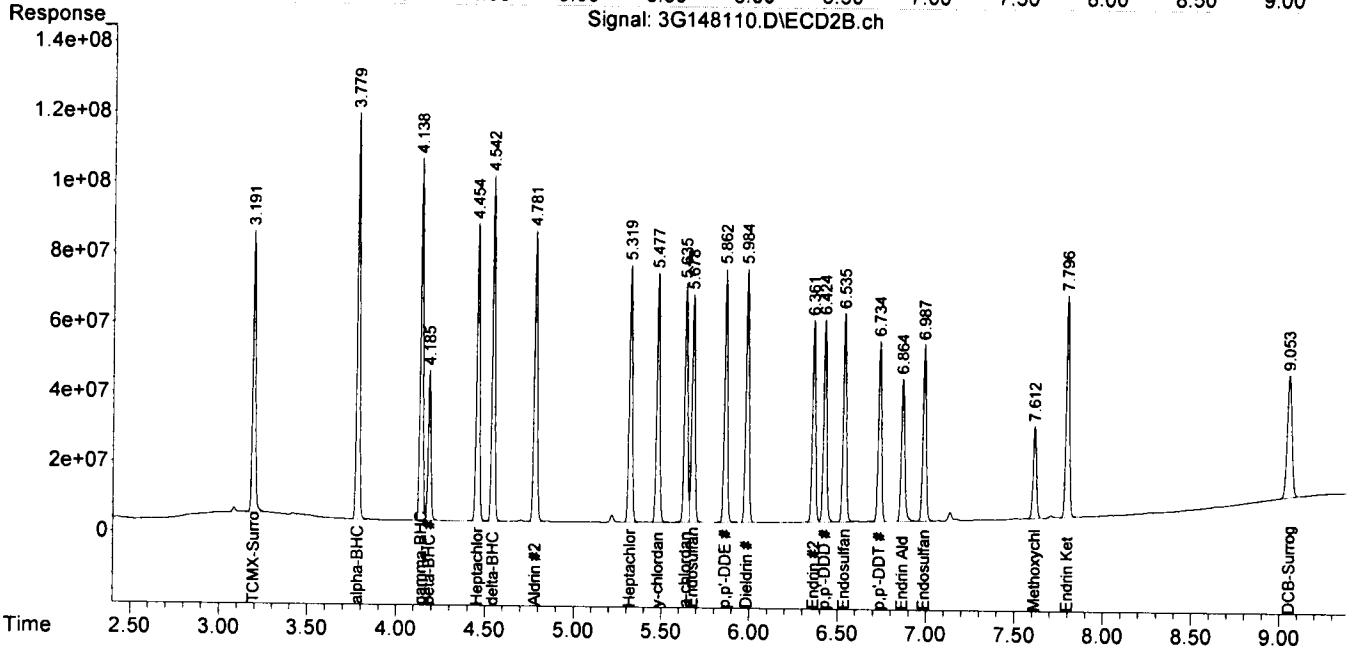
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0602-23\
Data File : 3G148110.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 16:49
Operator : AH//PR/KM
Sample : CAL PEST@100PPB
Misc : S,PEST
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:05:43 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P
Signal #1 Info : .32
Signal #2 Phase: db-17
Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0602-23\
Data File : 3G148111.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 17:01
Operator : AH//PR/KM
Sample : CAL PEST@200PPB
Misc : S,PEST
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:08:03 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.159	3.191	2040.4E6	1737.5E6	208.504m	193.837m
2)alpha-BHC	3.923	3.781	3004.6E6	2503.0E6	218.471m	206.588
3)gamma-BHC	4.280	4.139	2803.6E6	2229.4E6	230.375	204.877
4)beta-BHC	4.938	4.185	1127.4E6	942.0E6	201.178	181.125
5)Heptachlor	4.480	4.455	2613.9E6	2072.8E6	264.284	260.702
6)delta-BHC	5.191	4.542	2627.3E6	2190.2E6	222.129	201.214
7)Aldrin	4.743	4.781	2577.0E6	2082.5E6	219.058	203.754
8)Heptachlor Epoxid	5.377	5.319	2301.4E6	1837.2E6	221.522	198.654
9)y-chlordane	5.688	5.477	2279.1E6	1821.4E6	208.042	196.257
10)a-chlordane	5.739	5.636	2216.7E6	1758.0E6	212.212	195.296
11)Endosulfan I	5.649	5.677	2070.3E6	1693.8E6	229.007	194.065
12)p,p'-DDE	5.807	5.862	2275.2E6	1810.5E6	224.621	206.800
13)Dieldrin	6.002	5.984	2390.4E6	1908.5E6	225.424	202.353
14)Endrin	6.204	6.360	1965.2E6	1524.5E6	311.221	260.638m
15)p,p'-DDD	6.584	6.423	1836.4E6	1516.2E6	198.171	196.334
16)Endosulfan II	6.674	6.535	1946.1E6	1561.5E6	216.705	193.097
17)p,p'-DDT	6.750	6.734	1631.5E6	1410.3E6	281.127	226.193
18)Endrin Aldehyde	7.090	6.863	1323.3E6	1159.7E6	218.569	178.700m
19)Endosulfan Sulfat	7.400	6.986	1742.8E6	1328.2E6	216.846	186.078
20)Methoxychlor	7.340	7.611	858.2E6	724.4E6	268.757	225.531m
21)Endrin Ketone	7.806	7.795	2019.5E6	1678.3E6	221.866	188.705
22)DCB-Surrogate	8.581	9.051	1821.5E6	1320.7E6	196.998m	172.132m
23)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

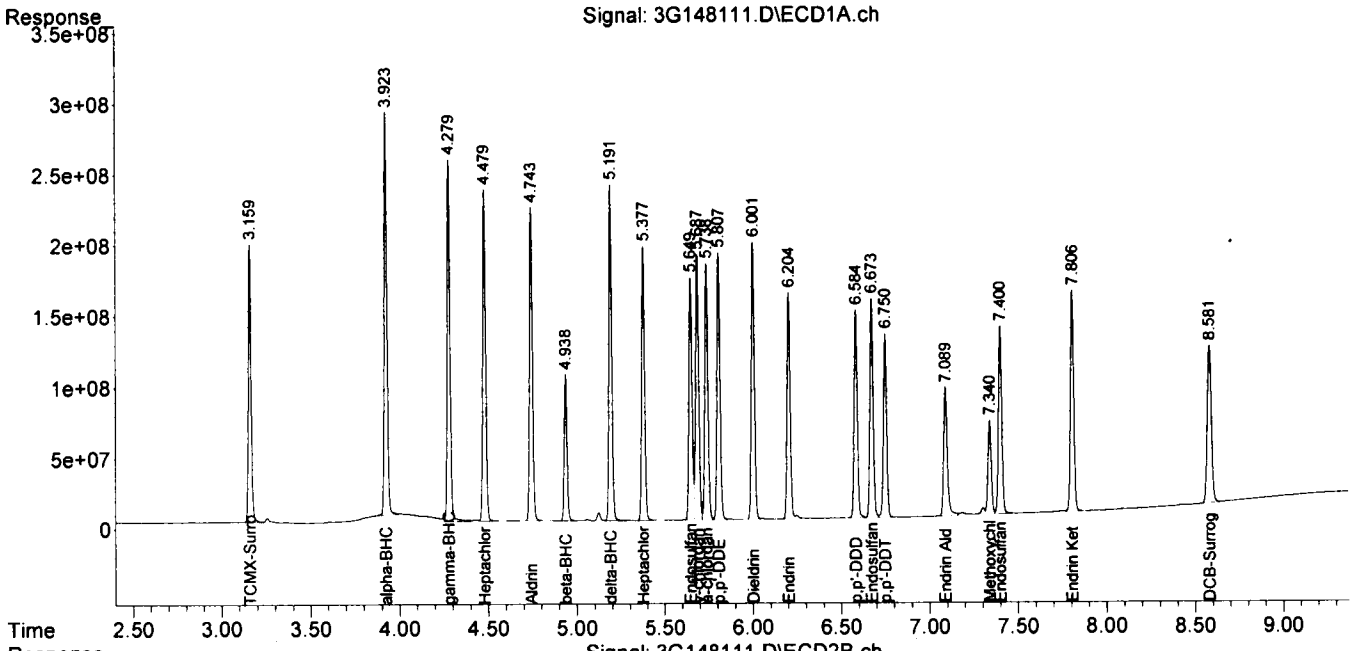
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

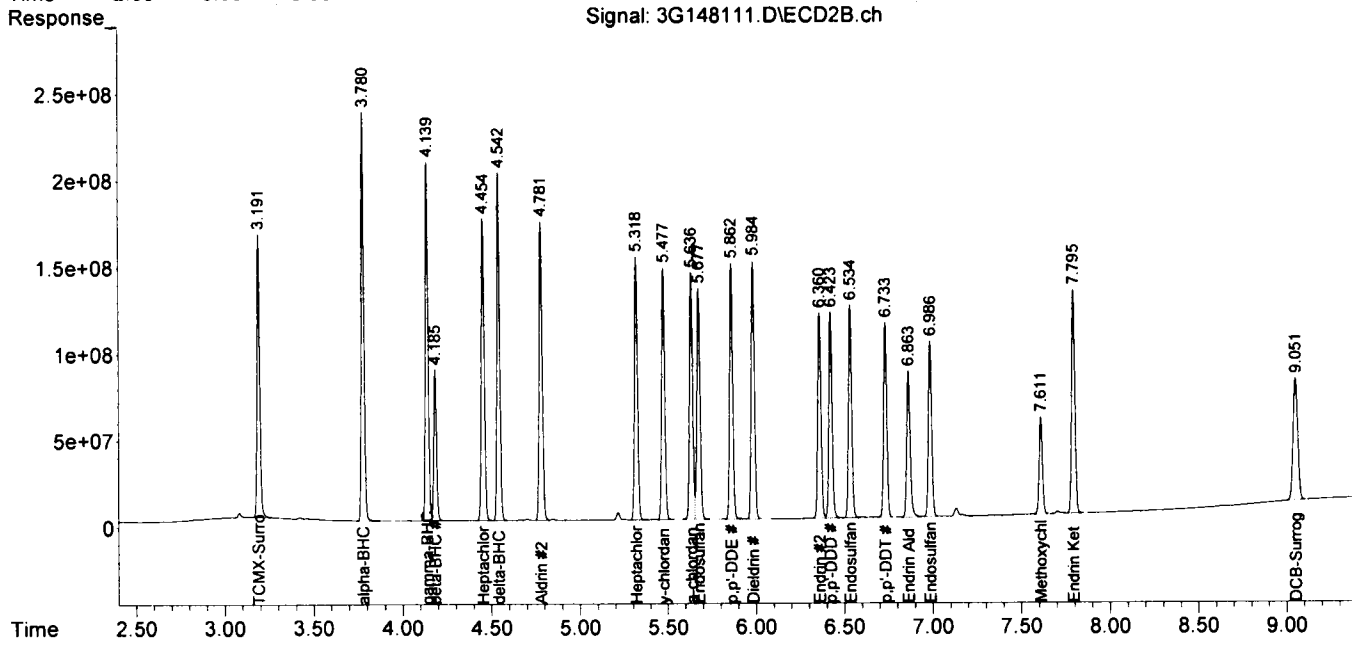
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0602-23\
Data File : 3G148111.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 17:01
Operator : AH//PR/KM
Sample : CAL PEST@200PPB
Misc : S,PEST
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:08:03 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0602-23\
Data File : 3G148112.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 17:13
Operator : AH//PR/KM
Sample : CAL PEST@400PPB
Misc : S,PEST
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:10:47 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.160	3.191	4005.4E6	3343.3E6	409.289m	372.977m
2)alpha-BHC	3.924	3.781	5927.7E6	4891.4E6	431.025m	403.713
3)gamma-BHC	4.280	4.140	5377.8E6	4374.8E6	441.904m	402.035
4)beta-BHC	4.939	4.186	2200.3E6	1826.6E6	392.653	351.209
5)Heptachlor	4.481	4.455	5132.5E6	4067.0E6	518.928	511.512
6)delta-BHC	5.192	4.543	5246.7E6	4333.3E6	443.585	398.095
7)Aldrin	4.744	4.781	5088.5E6	4075.5E6	432.551	398.759
8)Heptachlor Epoxid	5.377	5.319	4517.2E6	3595.1E6	434.802	388.731
9)y-chlordane	5.687	5.478	4499.6E6	3571.4E6	410.739	384.816
10)a-chlordane	5.739	5.636	4356.9E6	3452.9E6	417.096	383.584
11)Endosulfan I	5.650	5.677	4074.9E6	3327.0E6	450.740	381.189
12)p,p'-DDE	5.808	5.862	4507.7E6	3569.9E6	445.019	407.776
13)Dieldrin	6.002	5.984	4738.4E6	3766.0E6	446.857	399.303
14)Endrin	6.204	6.360	3800.1E6	2993.1E6	601.807	511.710
15)p,p'-DDD	6.584	6.423	3650.0E6	3012.4E6	393.880	390.085
16)Endosulfan II	6.673	6.535	3849.0E6	3086.9E6	428.597	381.726
17)p,p'-DDT	6.750	6.734	3311.4E6	2848.8E6	470.357	408.130
18)Endrin Aldehyde	7.090	6.864	2683.6E6	2340.6E6	443.237	360.670
19)Endosulfan Sulfat	7.400	6.986	3501.2E6	2658.8E6	435.640	372.501
20)Methoxychlor	7.339	7.611	1739.2E6	1451.6E6	459.639	406.463m
21)Endrin Ketone	7.806	7.795	4065.2E6	3374.0E6	446.620	379.372
22)DCB-Surrogate	8.580	9.051	3500.5E6	2601.6E6	378.590m	339.087m
23)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

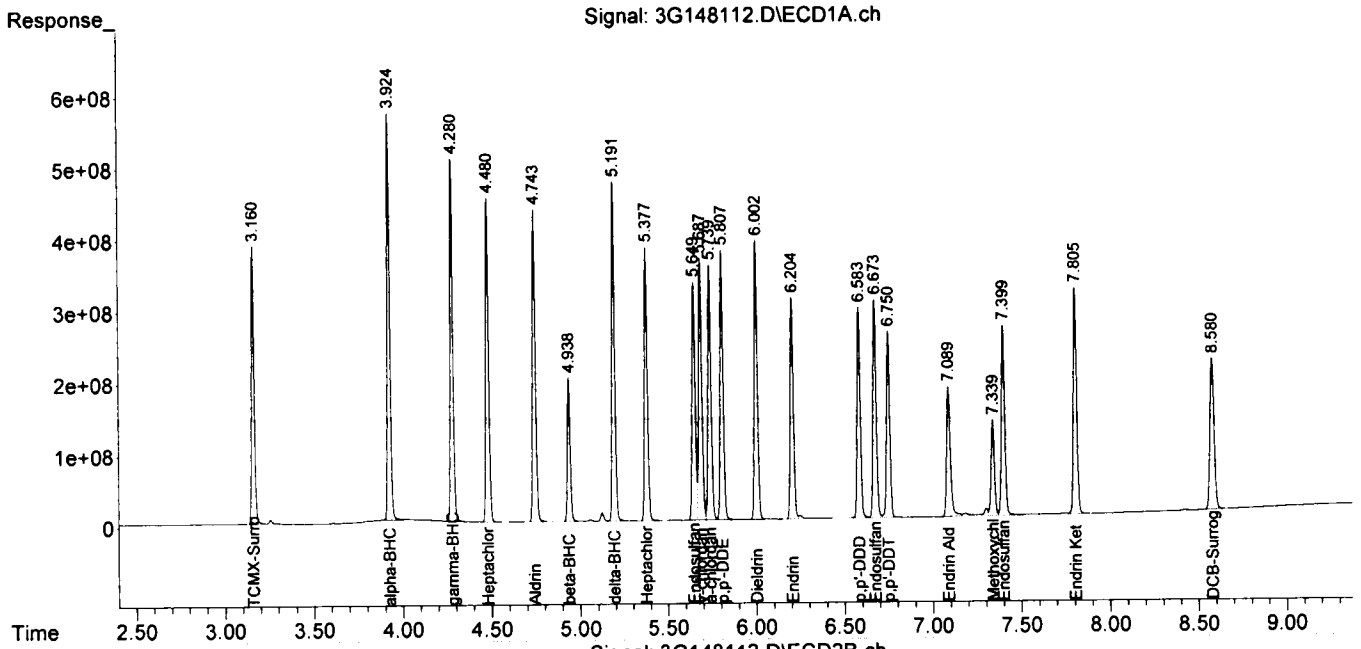
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

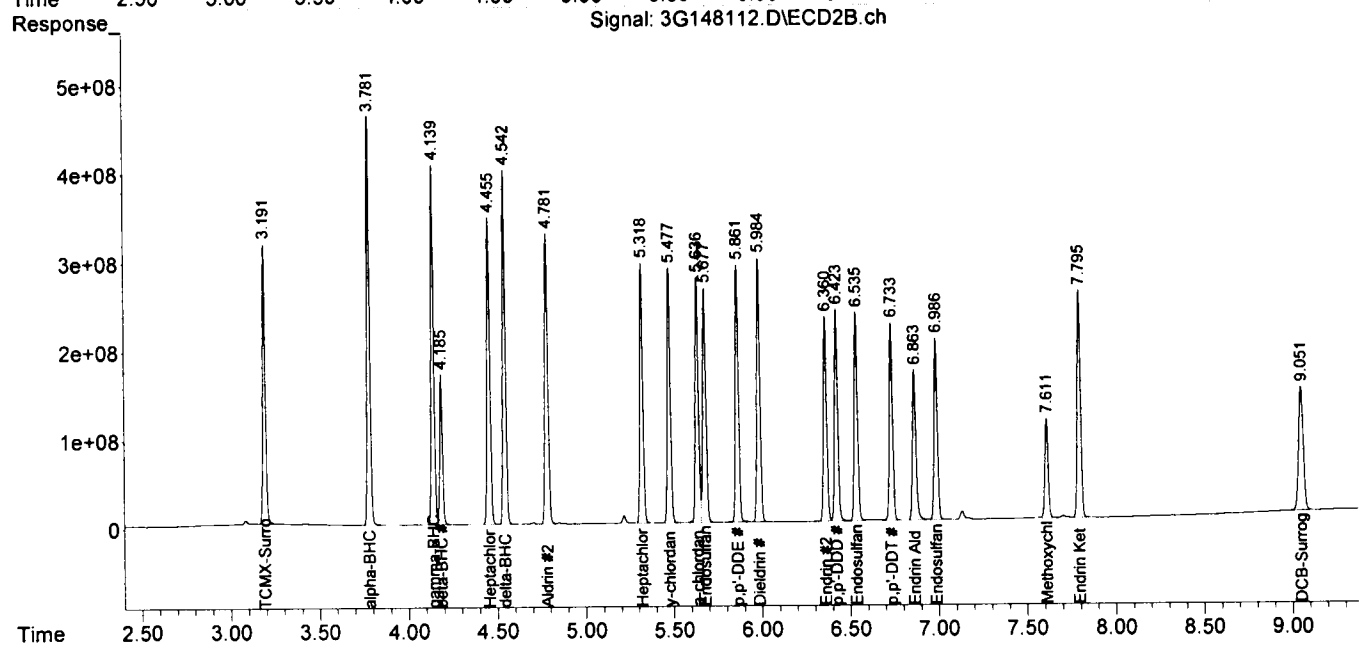
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0602-23\
Data File : 3G148112.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 17:13
Operator : AH//PR/KM
Sample : CAL PEST@400PPB
Misc : S,PEST
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:10:47 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P
Signal #1 Info : .32
Signal #2 Phase: db-17
Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0602-23\
Data File : 3G148113.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 17:24
Operator : AH//PR/KM
Sample : CAL CHLORO@100PPB
Misc : S,PEST
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:20:20 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:18:45 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.158	3.191	982.7E6	833.7E6	100.419m	93.007m
2)alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)gamma-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)Heptachlor Epoxid	0.000	0.000	0	0	N.D. d	N.D. d
9)y-chlordane	0.000	0.000	0	0	N.D. d	N.D. d
10)a-chlordane	0.000	0.000	0	0	N.D. d	N.D. d
11)Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
12)p,p'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)p,p'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)Endosulfan II	0.000	0.000	0	0	N.D. d	N.D. d
17)p,p'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)Endrin Aldehyde	0.000	0.000	0	0	N.D. d	N.D. d
19)Endosulfan Sulfat	0.000	0.000	0	0	N.D. d	N.D. d
20)Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)Endrin Ketone	0.000	0.000	0	0	N.D. d	N.D. d
22)DCB-Surrogate	8.580	9.053	892.2E6	640.6E6	96.494m	83.499m
23)Chlordane (Techni	4.478	4.454	62937543	49345079	135.458m	136.534
24)Chlordane (Techni	5.687	5.477	111.4E6	102.3E6	98.432	93.752m
25)Chlordane (Techni	5.740	5.635	158.7E6	71022679	95.732	83.559
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

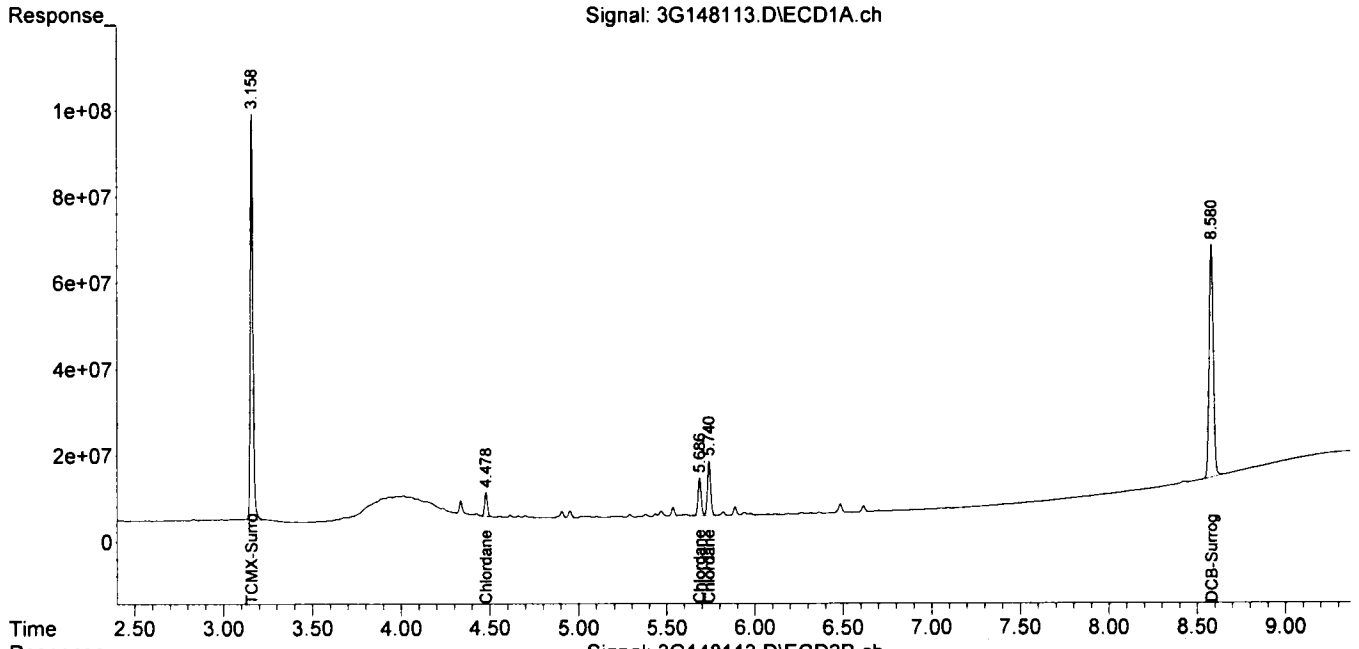
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

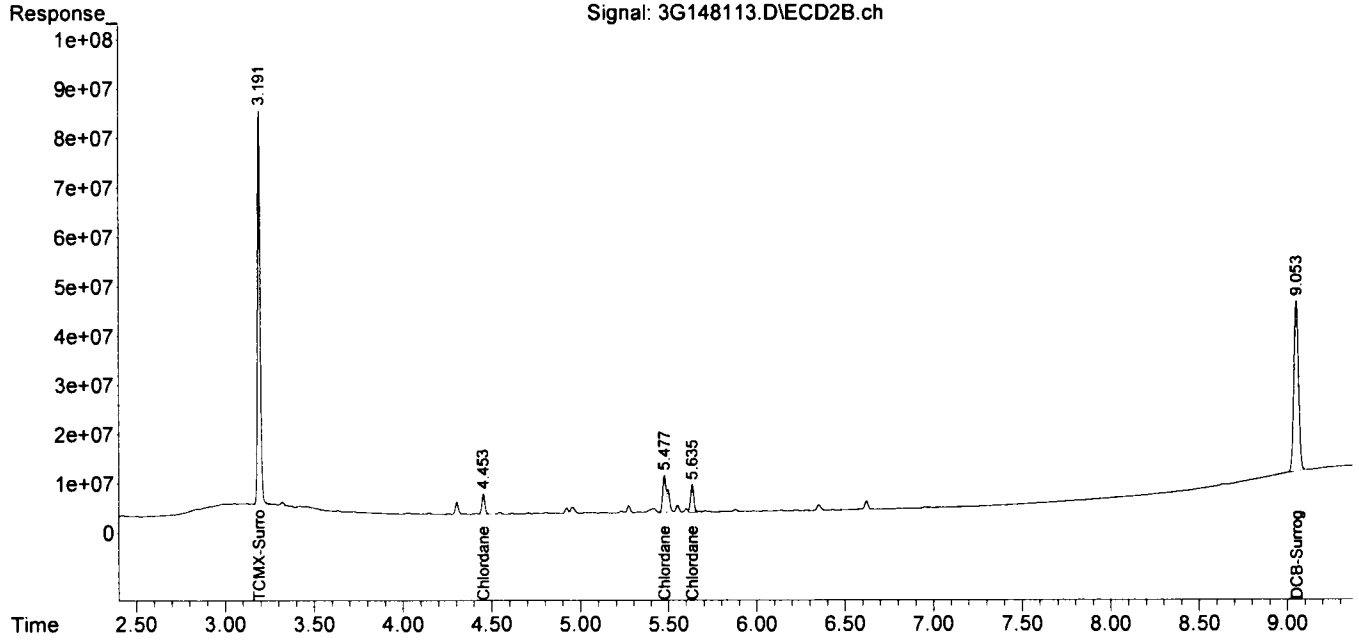
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0602-23\
Data File : 3G148113.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 17:24
Operator : AH//PR/KM
Sample : CAL CHLORO@100PPB
Misc : S,PEST
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:20:20 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:18:45 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_3\DATA\0602-23\
Data File : 3G148114.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 17:36
Operator : AH//PR/KM
Sample : TOX@50PPB
Misc : S,PEST
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:36:15 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
26)Toxaphene {1}	6.023	6.081	5242372	3049998	53.194m	47.199m
27)Toxaphene {2}	6.316	6.771	7937798	4835856	60.895m	46.120m
28)Toxaphene {3}	6.602	7.240	6168824	2228492	62.606	45.071m#
29)Toxaphene {4}	6.967	7.388	5433847	5453146	46.214m	45.340m
30)Toxaphene {5}	7.332	7.450	6304042	3999706	45.215m	47.108m

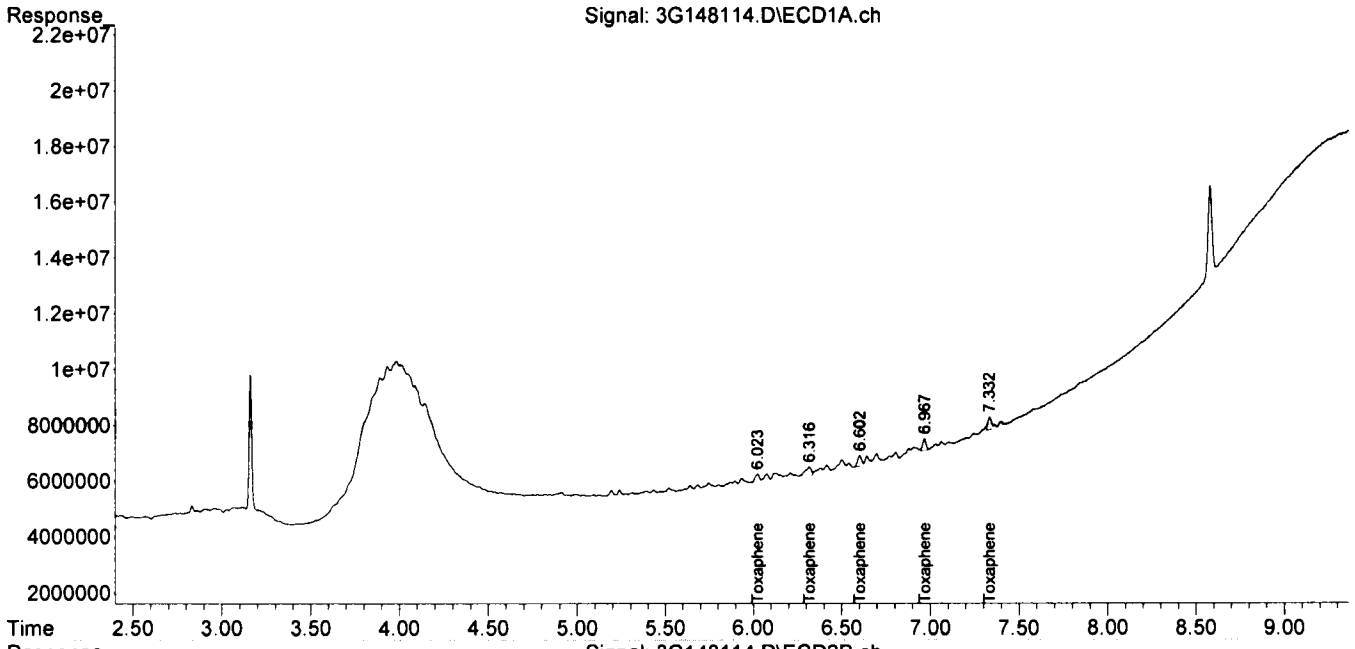
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

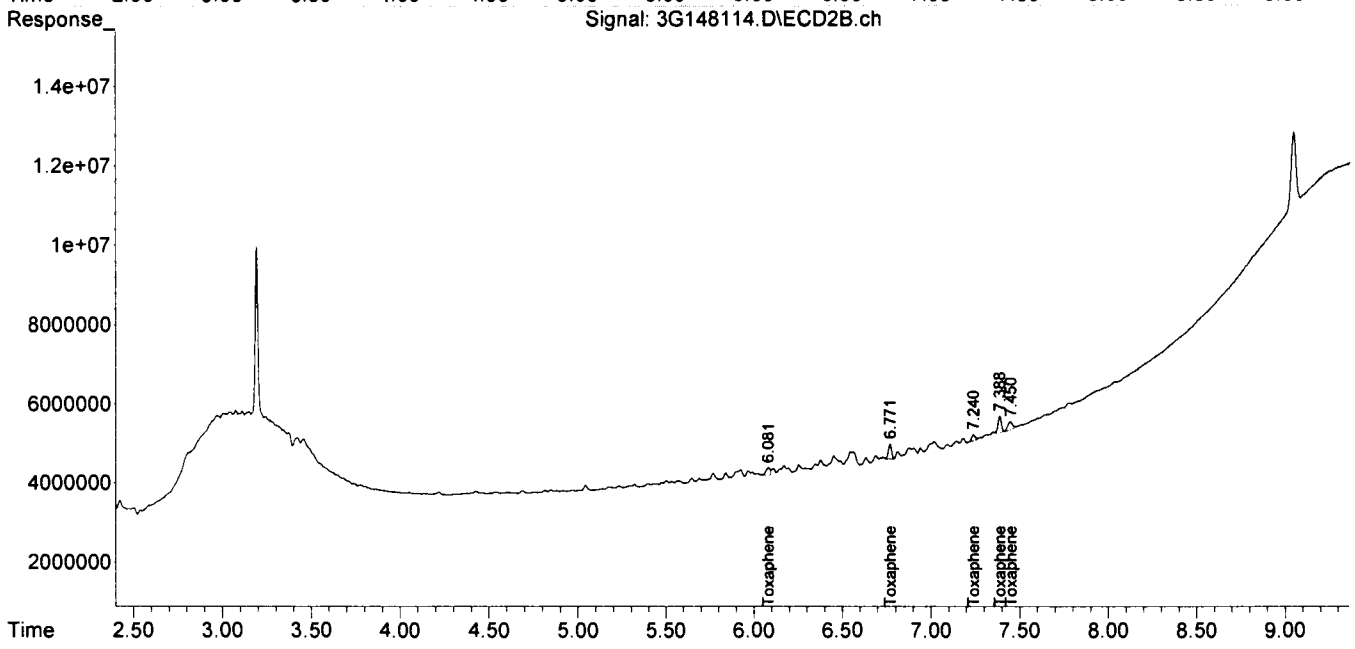
Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_3\DATA\0602-23\
Data File : 3G148114.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 17:36
Operator : AH//PR/KM
Sample : TOX@50PPB
Misc : S,PEST
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:36:15 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_3\DATA\0602-23\
Data File : 3G148115.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 17:48
Operator : AH//PR/KM
Sample : TOX@200PPB
Misc : S,PEST
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:28:14 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
26)Toxaphene {1}	6.021	6.079	20442007	12444819	207.424m	192.585m
27)Toxaphene {2}	6.313	6.769	24938777	22238715	191.320m	212.092m
28)Toxaphene {3}	6.599	7.238	24354338	11917802	247.168m	241.037m
29)Toxaphene {4}	6.964	7.387	24225344	24674774	206.033m	205.158m
30)Toxaphene {5}	7.332	7.446	31250317	16863957	224.138m	198.623m

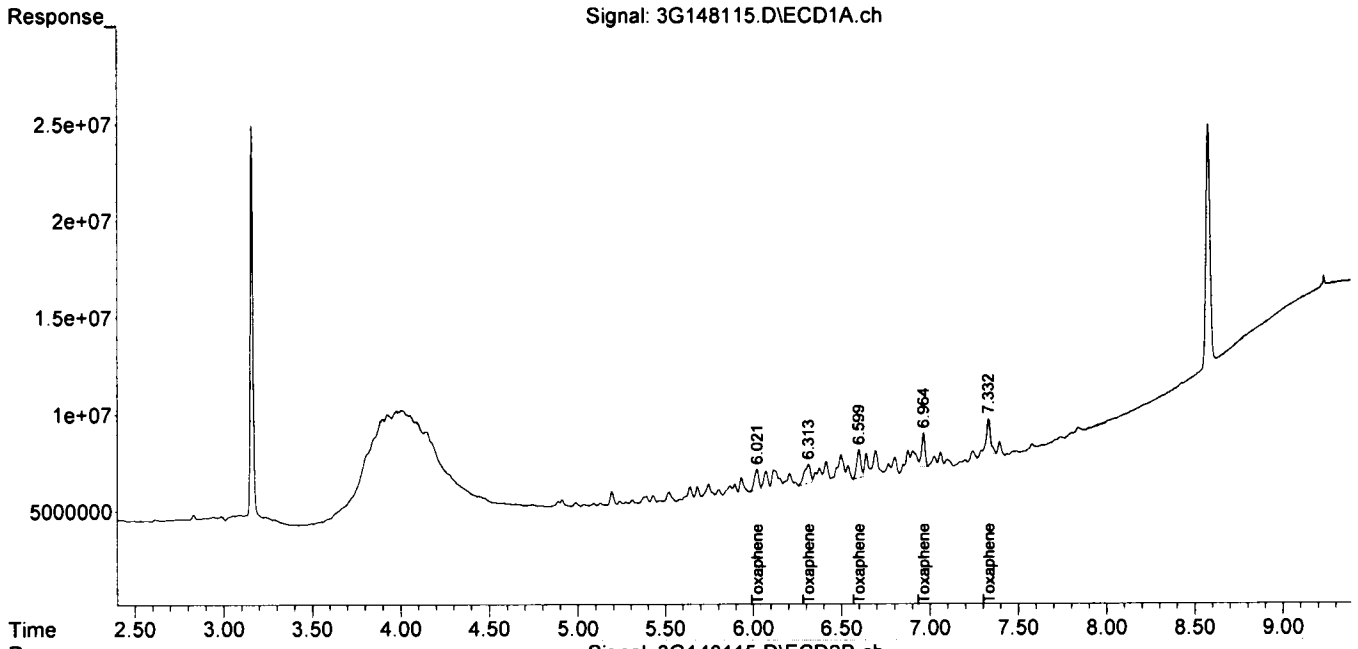
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

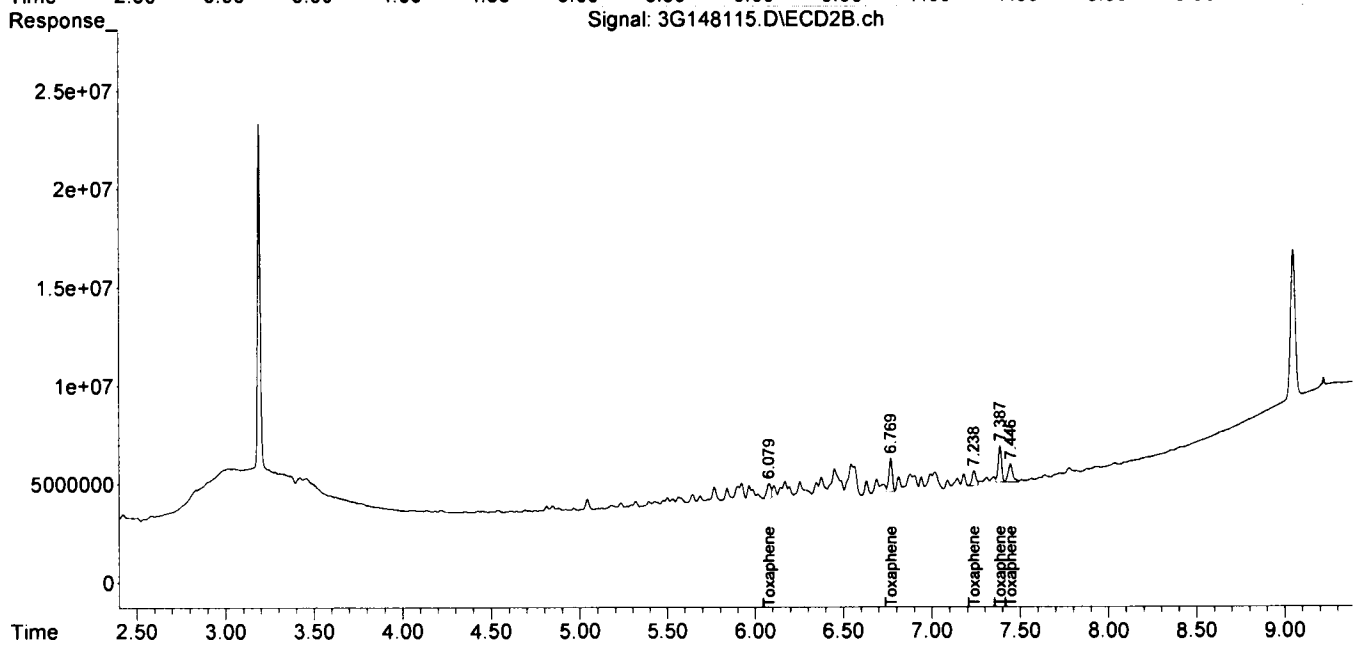
Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_3\DATA\0602-23\
Data File : 3G148115.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 17:48
Operator : AH//PR/KM
Sample : TOX@200PPB
Misc : S,PEST
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:28:14 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_3\DATA\0602-23\
Data File : 3G148116.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 18:00
Operator : AH//PR/KM
Sample : TOX@500PPB
Misc : S,PEST
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:29:33 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
26)Toxaphene {1}	6.021	6.080	48413162	32494481	491.245m	502.855m
27)Toxaphene {2}	6.314	6.769	68093844	54500699	522.387m	519.776m
28)Toxaphene {3}	6.600	7.239	59694610	28159521	605.831m	569.525m
29)Toxaphene {4}	6.964	7.386	62088080	66163016	528.050m	550.113m
30)Toxaphene {5}	7.332	7.446	85094798	43021590	610.329m	506.708m

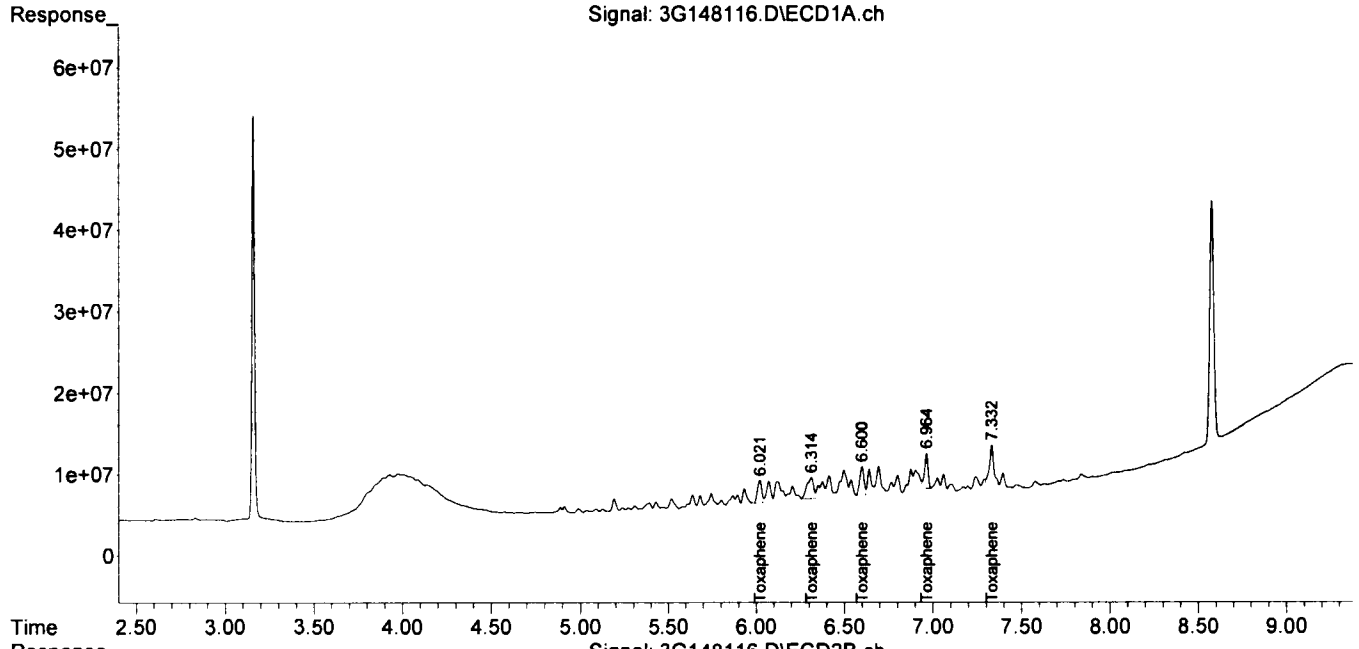
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

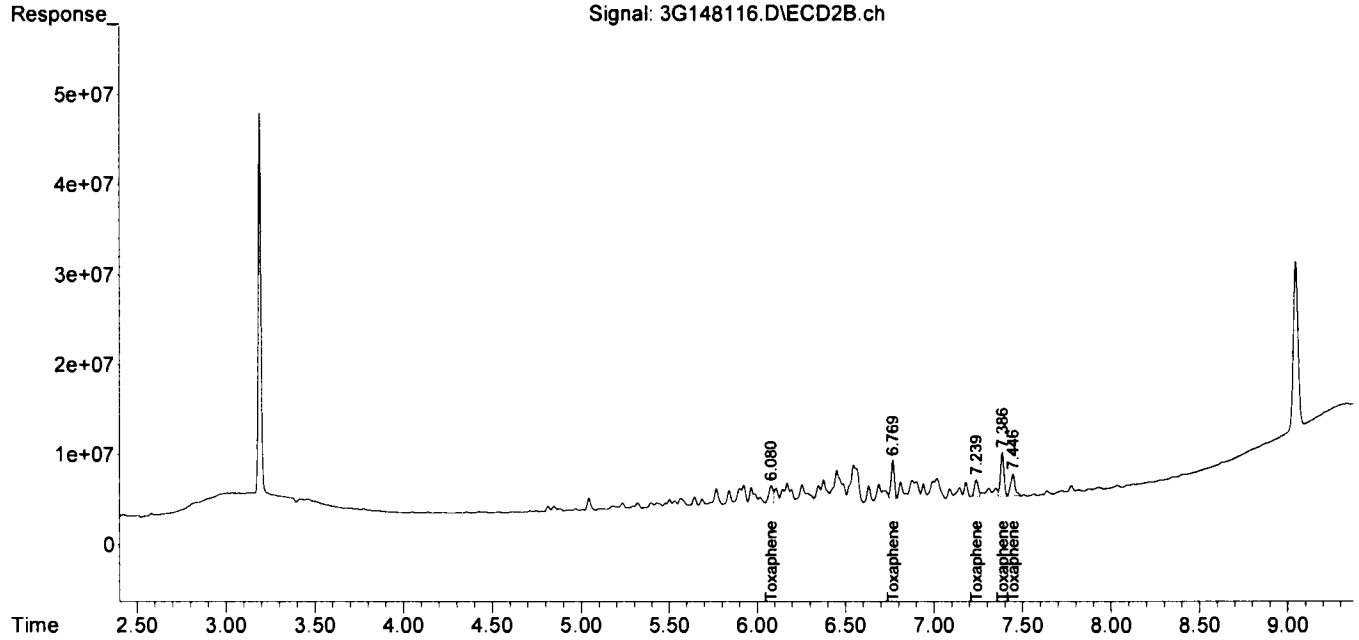
Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_3\DATA\0602-23\
Data File : 3G148116.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 18:00
Operator : AH//PR/KM
Sample : TOX@500PPB
Misc : S,PEST
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:29:33 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\GCDATA\2023\GC_3\DATA\0602-23\
Data File : 3G148117.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 18:12
Operator : AH//PR/KM
Sample : TOX@1000PPB
Misc : S,PEST
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:30:48 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
26)Toxaphene {1}	6.008	6.066	97771171	65020393	992.078m	1006.196m
27)Toxaphene {2}	6.300	6.755	143.4E6	111.8E6	1100.462m	1066.201m
28)Toxaphene {3}	6.586	7.225	120.3E6	59717424	1220.854m	1207.781m
29)Toxaphene {4}	6.950	7.372	128.4E6	140.9E6	1091.866m	1171.863m
30)Toxaphene {5}	7.318	7.433	186.3E6	92788541	1336.205m	1092.862m

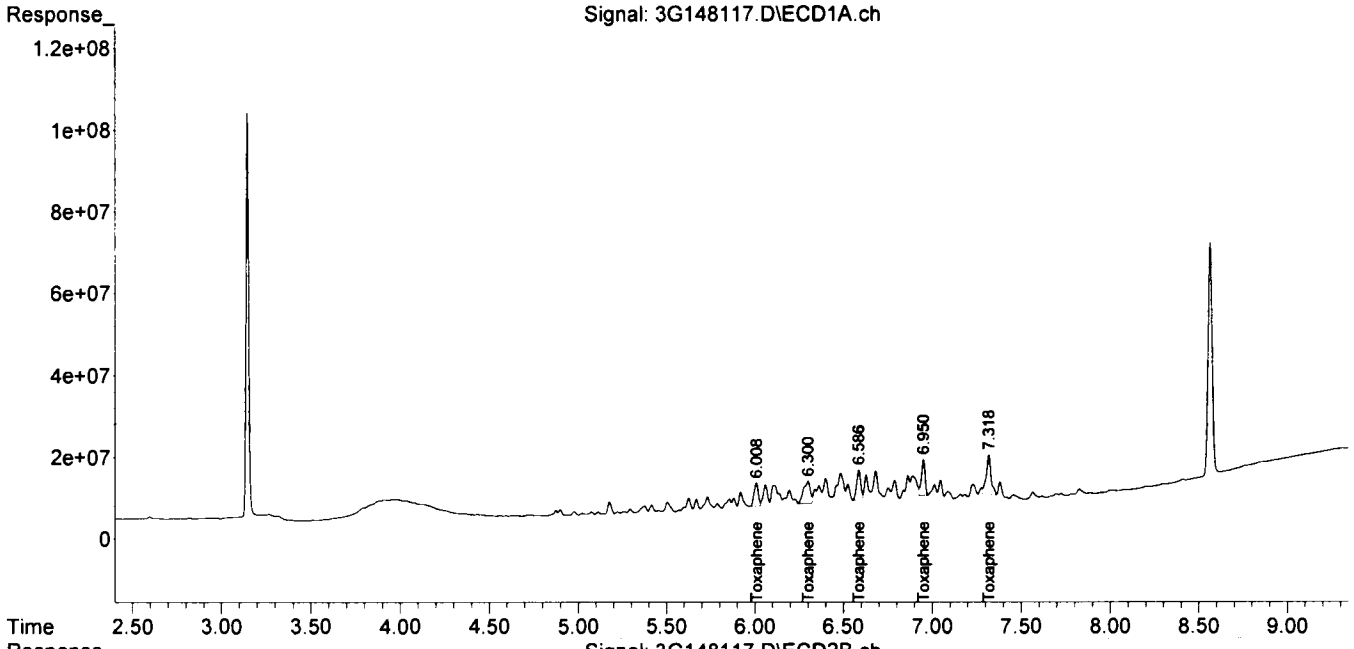
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

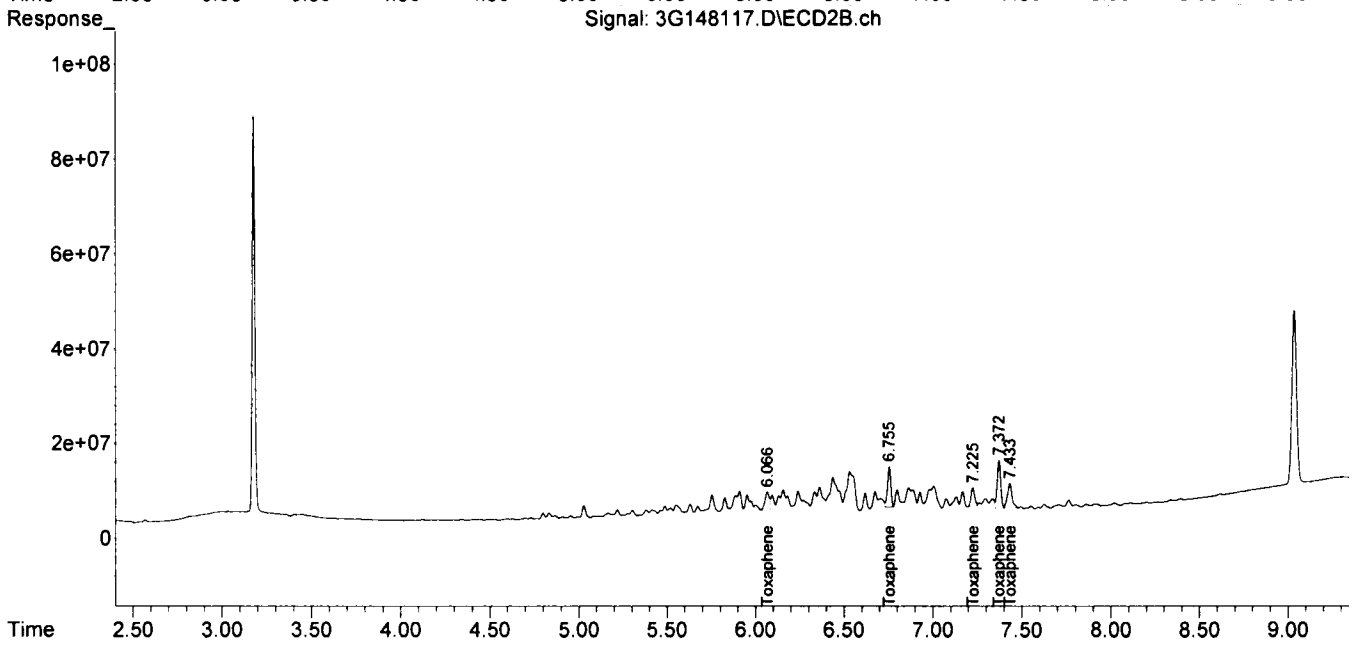
Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_3\DATA\0602-23\
Data File : 3G148117.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 18:12
Operator : AH//PR/KM
Sample : TOX@1000PPB
Misc : S,PEST
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:30:48 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\GCDATA\2023\GC_3\DATA\0602-23\
Data File : 3G148118.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 18:23
Operator : AH//PR/KM
Sample : TOX@2000PPB
Misc : S,PEST
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:32:52 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
26)Toxaphene {1}	6.022	6.079	206.9E6	139.1E6	2098.932m	2152.339m
27)Toxaphene {2}	6.314	6.770	303.2E6	242.7E6	2325.877m	2315.012m
28)Toxaphene {3}	6.599	7.239	270.5E6	132.2E6	2744.932m	2673.513m
29)Toxaphene {4}	6.964	7.386	283.0E6	306.7E6	2406.966m	2549.679m
30)Toxaphene {5}	7.332	7.447	417.7E6	217.1E6	2996.195m	2557.273m

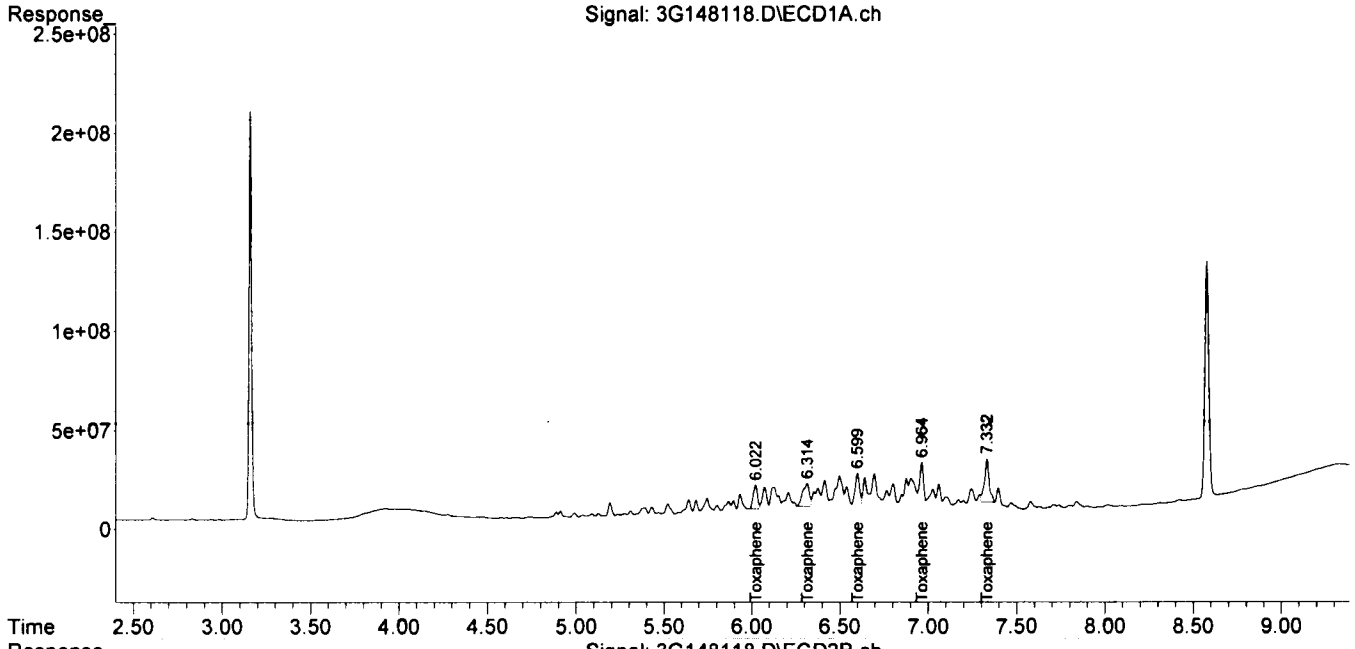
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

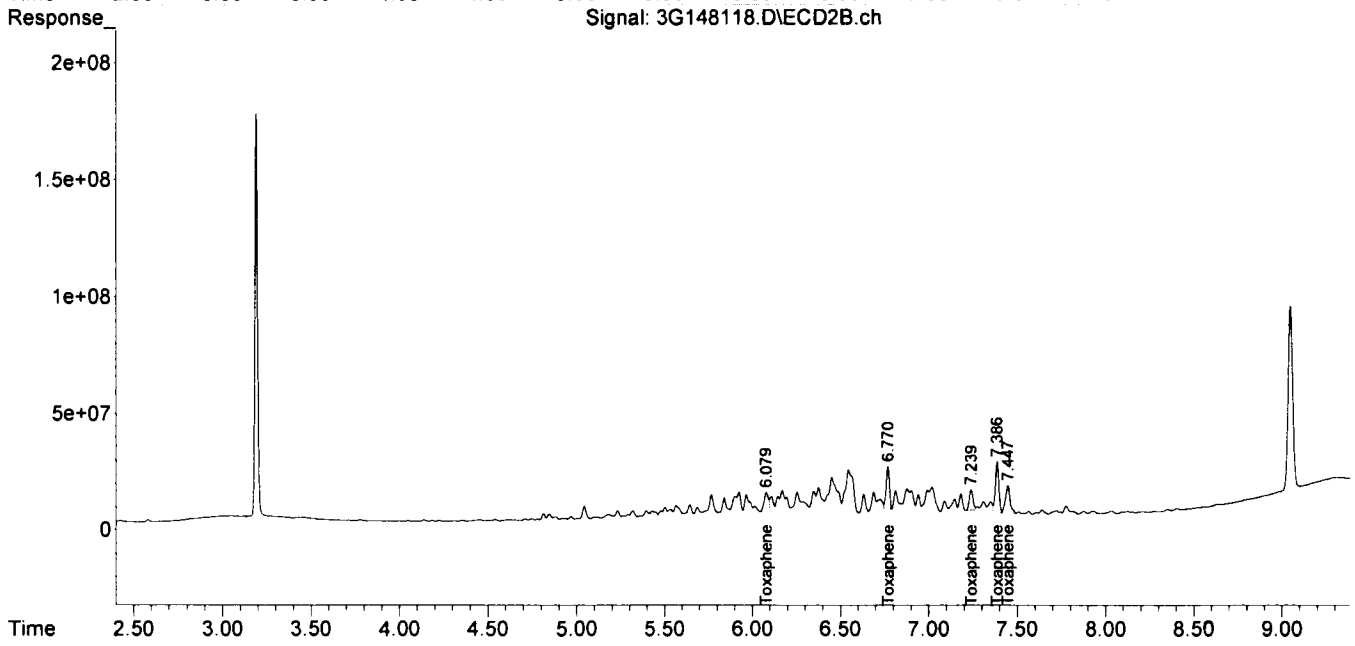
Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_3\DATA\0602-23\
Data File : 3G148118.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 18:23
Operator : AH//PR/KM
Sample : TOX@2000PPB
Misc : S,PEST
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:32:52 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_3\DATA\0602-23\
Data File : 3G148119.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 18:35
Operator : AH//PR/KM
Sample : TOX@4000PPB
Misc : S,PEST
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:24:50 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
26)Toxaphene {1}	6.021	6.080	393.2E6	281.4E6	3989.967m	4354.431m
27)Toxaphene {2}	6.313	6.769	598.5E6	472.8E6	4591.670m	4508.711m
28)Toxaphene {3}	6.599	7.239	489.3E6	273.0E6	4965.907m	5522.267m
29)Toxaphene {4}	6.964	7.387	545.6E6	609.6E6	4640.083m	5068.661m
30)Toxaphene {5}	7.331	7.448	817.9E6	438.3E6	5866.060m	5162.534m

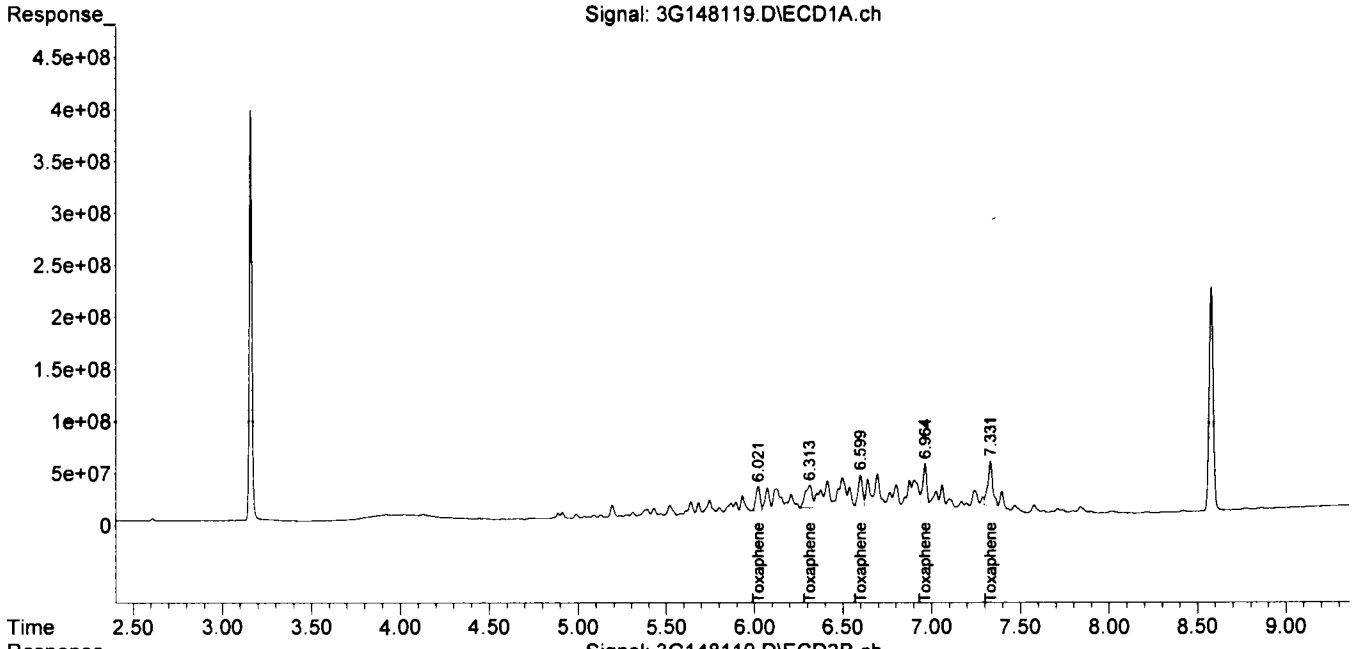
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

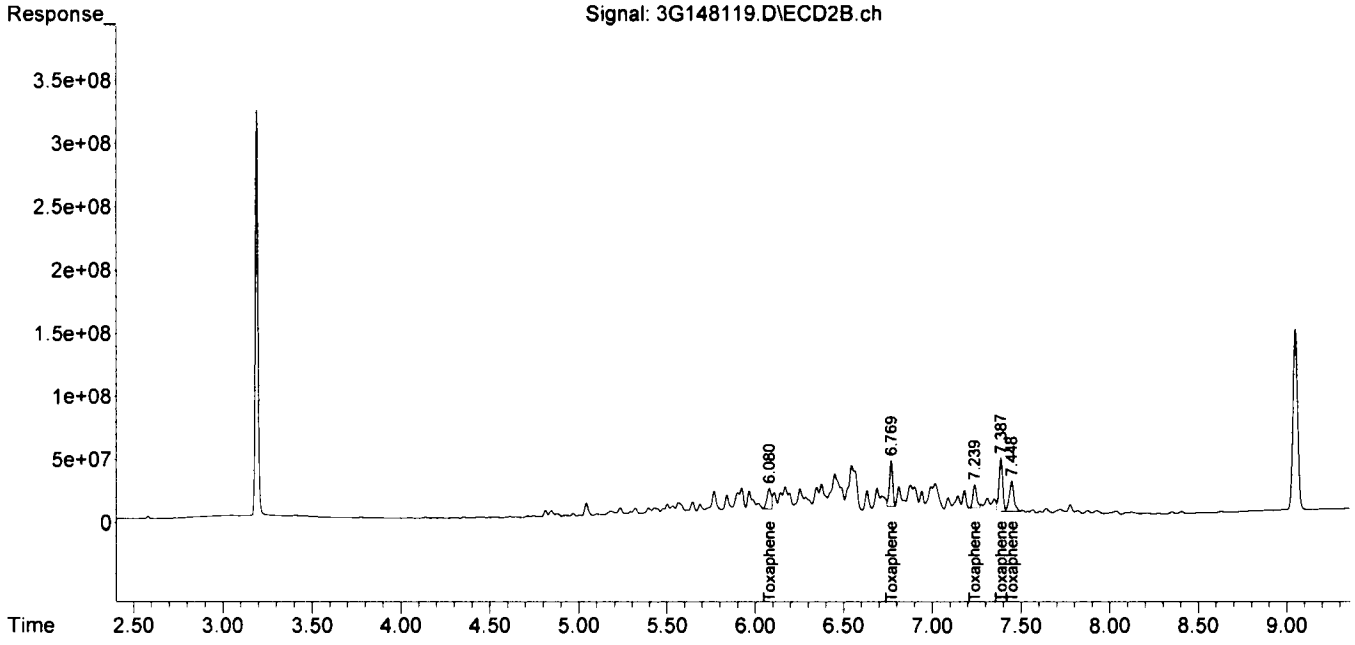
Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_3\DATA\0602-23\
Data File : 3G148119.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 18:35
Operator : AH//PR/KM
Sample : TOX@4000PPB
Misc : S,PEST
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:24:50 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\GCDATA\2023\GC_3\DATA\0602-23\
Data File : 3G148120.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 18:47
Operator : AH//PR/KM
Sample : TOX ICV
Misc : S,PEST
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:48:41 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:43:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

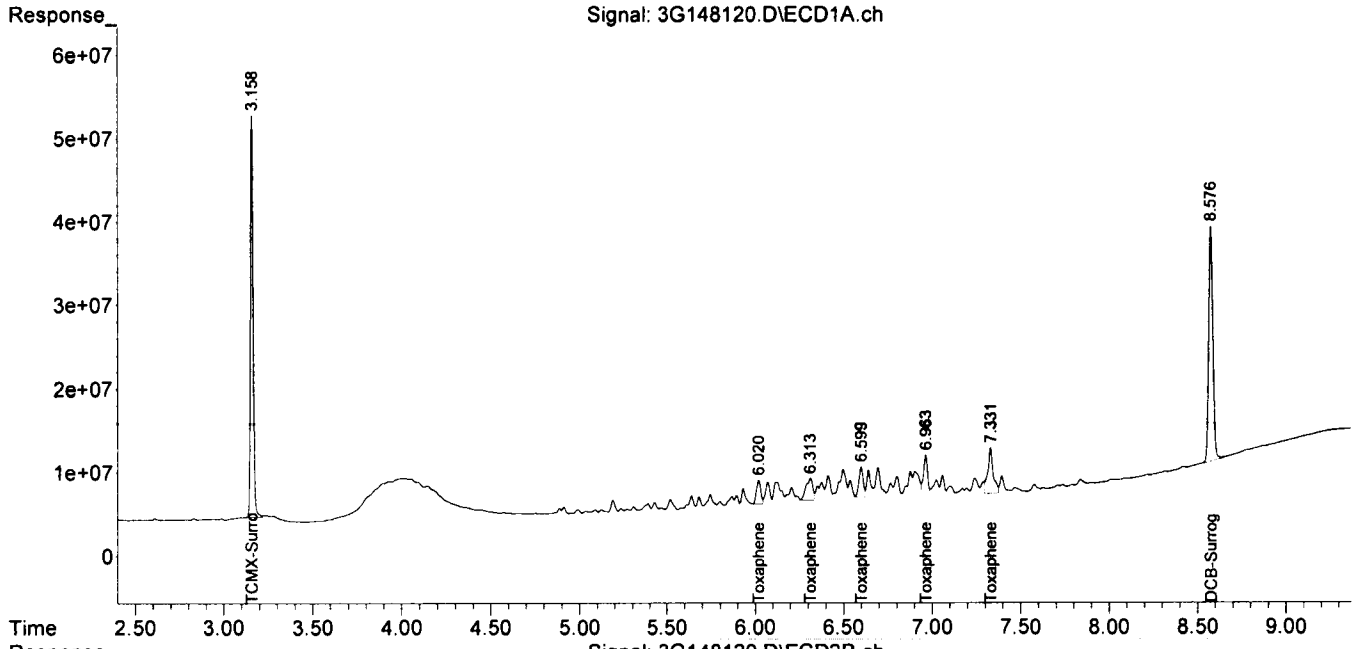
	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
	Target Compounds						
1)	TCMX-Surrogate	3.158	3.190	496.3E6	425.3E6	49.749m	49.760m
22)	DCB-Surrogate	8.576	9.048	465.8E6	327.7E6	49.633m	50.701m
26)	Toxaphene {1}	6.020	6.079	48811012	32957489	485.371m	503.012m
27)	Toxaphene {2}	6.313	6.769	69464852	55426024	482.223m	497.640m
28)	Toxaphene {3}	6.599	7.239	61151759	28914718	494.227m	489.319m
29)	Toxaphene {4}	6.963	7.386	61662036	64765468	486.638m	478.895m
30)	Toxaphene {5}	7.331	7.447	119.1E6	44852394	679.351	479.459m#

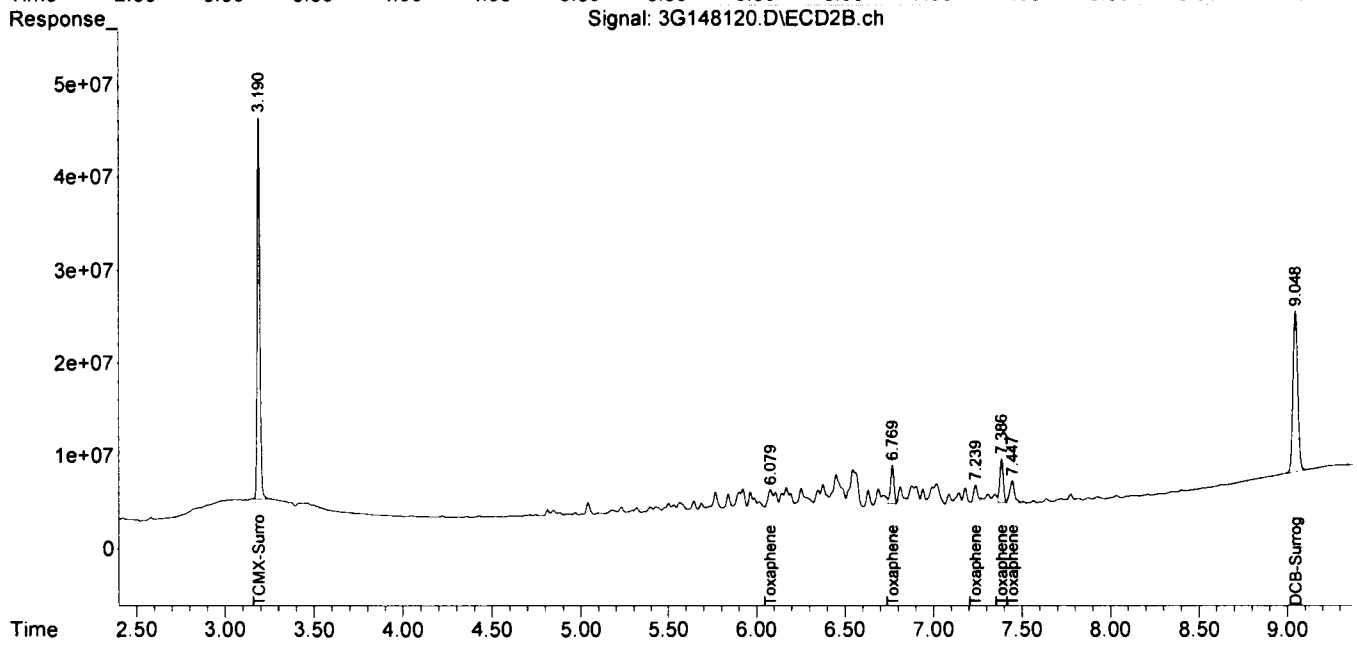
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\GCDATA\2023\GC_3\DATA\0602-23\
Data File : 3G148120.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 18:47
Operator : AH//PR/KM
Sample : TOX ICV
Misc : S,PEST
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 10:48:41 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:43:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





3062404 0603

Form 6
Initial Calibration

Method: EPA 8081B

Instrument: GC_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6G177188.D	CAL PEST@2PPB	06/14/23 11:02	2	6G177187.D	CAL PEST@10PPB	06/14/23 10:50
3	6G177191.D	CAL PEST@50PPB	06/14/23 11:37	4	6G177186.D	CAL PEST@100PPB	06/14/23 10:39
5	6G177190.D	CAL PEST@200PPB	06/14/23 11:26	6	6G177189.D	CAL PEST@400PPB	06/14/23 11:14
7	6G177192.D	CAL CHLORO@100P	06/14/23 11:49				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
TCMX-Surrogate	1	0	Avg	907.13	965.65	959.42	954.34	951.88	914.16	----	----	942	3.09	1.00	1.00	2.6	2.00	10.00	50.00	100.0	200.0	400.0		
alpha-BHC	1	0	Avg	1244.5	1343.7	1364.1	1360.0	1376.3	1330.2	----	----	1340	3.84	1.00	1.00	3.6	2.00	10.00	50.00	100.0	200.0	400.0		
gamma-BHC	1	0	Avg	1009.7	1204.0	1255.1	1249.5	1266.9	1222.2	----	----	1200	4.19	1.00	1.00	8.0	2.00	10.00	50.00	100.0	200.0	400.0		
beta-BHC	1	0	Avg	512.23	558.93	543.83	534.86	543.24	517.40	----	----	535	4.84	0.999	1.00	3.3	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor	1	0	Avg	918.46	1046.4	1140.3	1118.2	1146.4	1103.9	----	----	1080	4.38	1.00	1.00	8.0	2.00	10.00	50.00	100.0	200.0	400.0		
delta-BHC	1	0	Avg	900.85	1104.0	1208.7	1208.5	1237.4	1200.1	----	----	1140	5.09	1.00	1.00	11	2.00	10.00	50.00	100.0	200.0	400.0		
Aldrin	1	0	Avg	902.19	1097.0	1179.3	1175.8	1194.8	1148.0	----	----	1120	4.64	1.00	1.00	9.9	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor Epoxide	1	0	Avg	856.42	978.01	1033.0	1034.9	1052.2	1012.8	----	----	995	5.27	1.00	1.00	7.3	2.00	10.00	50.00	100.0	200.0	400.0		
y-chlordane	1	0	Avg	817.08	964.64	1035.9	1037.7	1064.6	1028.1	----	----	991	5.57	1.00	1.00	9.2	2.00	10.00	50.00	100.0	200.0	400.0		
a-chlordane	1	0	Avg	832.70	969.74	1019.2	1013.5	1038.8	1001.2	----	----	979	5.62	1.00	1.00	7.7	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan I	1	0	Avg	777.19	886.30	939.39	938.97	956.75	919.70	----	----	903	5.54	1.00	1.00	7.3	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDE	1	0	Avg	747.51	927.15	1023.5	1027.6	1058.4	1026.7	----	----	969	5.69	1.00	1.00	12	2.00	10.00	50.00	100.0	200.0	400.0		
Dieldrin	1	0	Avg	786.90	971.37	1070.5	1078.0	1107.4	1073.4	----	----	1010	5.88	1.00	1.00	12	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin	1	0	Avg	694.77	869.50	961.51	978.71	1002.8	976.22	----	----	914	6.08	1.00	1.00	13	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDD	1	0	Avg	637.84	760.42	830.36	832.49	863.91	839.75	----	----	794	6.46	1.00	1.00	11	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan II	1	0	Avg	705.95	810.36	872.88	878.07	896.18	872.02	----	----	839	6.55	1.00	1.00	8.5	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDT	1	0	Avg	525.13	616.41	729.28	744.87	801.83	800.84	----	----	703	6.62	1.00	1.00	16	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Aldehyde	1	0	Avg	472.51	529.41	563.94	560.28	579.25	567.90	----	----	546	6.96	1.00	1.00	7.2	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan Sulfate	1	0	Avg	666.25	756.89	776.63	796.62	805.49	774.86	----	----	763	7.27	1.00	1.00	6.6	2.00	10.00	50.00	100.0	200.0	400.0		
Methoxychlor	1	0	Avg	327.66	383.15	409.14	415.03	443.09	426.31	----	----	401	7.20	0.999	1.00	10	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Ketone	1	0	Avg	750.49	844.03	911.40	910.99	944.66	922.36	----	----	881	7.67	1.00	1.00	8.2	2.00	10.00	50.00	100.0	200.0	400.0		
DCB-Surrogate	1	0	Avg	775.57	815.10	791.14	794.87	802.10	772.60	----	----	792	8.41	1.00	1.00	2.0	2.00	10.00	50.00	100.0	200.0	400.0		
Chlordane (Technical)	1	1	Avg	----	----	----	----	----	----	----	----	53.4	4.38	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	1	2	Avg	----	----	----	----	----	----	----	----	105	5.57	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	1	3	Avg	----	----	----	----	----	----	----	----	151	5.63	-1	-1	Lvl=7	100.0							
Toxaphene	1	1	Avg	9.1268	9.8712	9.6552	9.5125	10.007	10.032	----	----	9.70	5.91	1.00	1.00	3.6	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	1	2	Avg	9.8856	9.7962	9.4015	9.0144	9.4650	9.6951	----	----	9.54	5.96	1.00	1.00	3.3	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	1	3	Avg	11.034	12.090	12.762	13.051	13.740	13.308	----	----	12.7	6.84	1.00	1.00	7.7	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	1	4	Avg	20.368	22.560	23.150	24.943	26.727	27.396	----	----	24.2	7.20	1.00	1.00	11	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	1	5	Avg	6.1547	6.7578	7.0681	7.6719	8.3714	8.1997	----	----	7.37	7.27	0.999	0.999	12	50.00	200.0	500.0	1000.	2000.	4000.		
TCMX-Surrogate	2	0	Avg	776.56	811.17	807.93	794.40	787.81	748.13	----	----	788	3.23	0.999	1.00	2.9	2.00	10.00	50.00	100.0	200.0	400.0		
alpha-BHC	2	0	Avg	871.26	1062.5	1148.7	1128.9	1147.5	1091.5	----	----	1080	3.82	0.999	1.00	9.8	2.00	10.00	50.00	100.0	200.0	400.0		
gamma-BHC	2	0	Avg	812.41	977.07	1026.8	1014.1	1025.7	979.25	----	----	973	4.18	0.999	1.00	8.4	2.00	10.00	50.00	100.0	200.0	400.0		
beta-BHC	2	0	Avg	443.03	481.38	452.84	440.57	444.07	420.41	----	----	447	4.23	0.999	1.00	4.5	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor	2	0	Avg	666.56	751.04	837.94	808.75	862.19	828.92	----	----	793	4.50	0.999	1.00	9.1	2.00	10.00	50.00	100.0	200.0	400.0		
delta-BHC	2	0	Avg	796.03	940.30	1021.2	1011.4	1026.3	985.66	----	----	964	4.58	1.00	1.00	9.1	2.00	10.00	50.00	100.0	200.0	400.0		

Avg Rsd Col 1: 8.20 Avg Rsd Col 2: 8.69

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

3062404 0604

Form 6
Initial Calibration

Method: EPA 8081B

Instrument: GC_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6G177188.D	CAL PEST@2PPB	06/14/23 11:02	2	6G177187.D	CAL PEST@10PPB	06/14/23 10:50
3	6G177191.D	CAL PEST@50PPB	06/14/23 11:37	4	6G177186.D	CAL PEST@100PPB	06/14/23 10:39
5	6G177190.D	CAL PEST@200PPB	06/14/23 11:26	6	6G177189.D	CAL PEST@400PPB	06/14/23 11:14
7	6G177192.D	CAL CHLORO@100P	06/14/23 11:49				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Aldrin	2	0	Avg	729.11	883.09	949.14	945.31	960.83	918.51	----	----	898	4.82	0.999	1.00	9.7	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor Epoxide	2	0	Avg	689.23	790.45	832.03	826.04	841.10	803.43	----	----	797	5.36	0.999	1.00	7.0	2.00	10.00	50.00	100.0	200.0	400.0		
v-chlordane	2	0	Avg	688.98	788.98	837.00	834.42	855.53	818.71	----	----	804	5.52	0.999	1.00	7.5	2.00	10.00	50.00	100.0	200.0	400.0		
a-chlordane	2	0	Avg	686.33	784.83	821.90	816.13	834.20	796.38	----	----	790	5.68	0.999	1.00	6.8	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan I	2	0	Avg	645.32	739.40	777.41	777.37	791.64	754.87	----	----	748	5.72	0.999	1.00	7.2	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDE	2	0	Avg	625.12	757.06	822.94	826.97	849.04	814.45	----	----	783	5.90	1.00	1.00	11	2.00	10.00	50.00	100.0	200.0	400.0		
Dieldrin	2	0	Avg	666.32	785.98	857.67	866.61	888.66	855.10	----	----	820	6.03	1.00	1.00	10	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin	2	0	Avg	555.69	679.19	745.21	759.74	778.77	755.79	----	----	712	6.40	1.00	1.00	12	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDD	2	0	Avg	524.67	623.13	680.30	681.69	707.84	683.25	----	----	650	6.46	1.00	1.00	10	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan II	2	0	Avg	582.38	665.95	722.77	711.14	733.90	705.05	----	----	687	6.58	1.00	1.00	8.2	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDT	2	0	Avg	372.51	437.71	535.98	545.95	614.21	604.76	----	----	519	6.77	0.999	0.999	18	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Aldehyde	2	0	Avg	458.26	497.35	520.00	510.77	528.94	513.05	----	----	505	6.90	1.00	1.00	5.0	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan Sulfate	2	0	Avg	541.52	616.07	638.36	630.75	647.16	621.81	----	----	616	7.03	1.00	1.00	6.2	2.00	10.00	50.00	100.0	200.0	400.0		
Methoxychlor	2	0	Avg	211.54	255.82	283.79	281.22	312.65	308.11	----	----	276	7.65	0.999	0.999	14	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Ketone	2	0	Avg	608.57	714.30	772.75	760.30	799.83	775.69	----	----	739	7.84	1.00	1.00	9.4	2.00	10.00	50.00	100.0	200.0	400.0		
DCB-Surrogate	2	0	Avg	653.58	672.82	642.78	636.49	648.26	621.42	----	----	646	9.10	1.00	1.00	2.7	2.00	10.00	50.00	100.0	200.0	400.0		
Chlordane (Technical)	2	1	Avg	----	----	----	----	----	----	----	----	29.1	4.34	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	2	2	Avg	----	----	----	----	----	----	----	----	93.9	5.52	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	2	3	Avg	----	----	----	----	----	----	----	----	69.2	5.68	-1	-1	Lvl=7	100.0							
Toxaphene	2	1	Avg	5.3180	5.2470	5.4022	5.4030	5.5471	5.9792	----	----	5.48	5.81	0.999	1.00	4.8	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	2	2	Avg	4.2802	4.6319	4.1328	4.1313	4.4204	4.0669	----	----	4.28	5.88	0.998	0.999	5.0	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	2	3	Avg	10.339	10.504	10.719	11.046	11.629	11.356	----	----	10.9	6.81	1.00	1.00	4.6	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	2	4	Avg	10.472	11.649	13.015	14.205	14.484	14.730	----	----	13.1	7.43	1.00	1.00	13	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	2	5	Avg	6.8504	8.1389	8.9859	10.109	11.278	11.154	----	----	9.42	7.49	0.999	0.999	19	50.00	200.0	500.0	1000.	2000.	4000.		

Avg Rsd Col 1: 8.20 Avg Rsd Col 2: 8.69

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pch/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq
Corr 2 = Correlation Coefficient for quad Eq

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Data Path : G:\Gcdata\2023\GC_6\Data\0614-23\
Data File : 6G177188.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 11:02
Operator : AH/PR/KM
Sample : CAL PEST@2PPB
Misc : S,PEST
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 12:34:24 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.091	3.230	18142619	15531399	2.008m	2.040m
2)alpha-BHC	3.840	3.818	24891853	17425368	1.865m	1.725m
3)gamma-BHC	4.190	4.178	20194746	16248235	1.753m	1.782m
4)beta-BHC	4.843	4.225	10244789	8860654	1.964	2.039m
5)Heptachlor	4.382	4.494	18369236	13331327	1.895m	1.918m
6)delta-BHC	5.090	4.583	18017096	15920721	1.663m	1.712
7)Aldrin	4.641	4.822	18043893	14582398	1.714	1.716m
8)Heptachlor Epoxid	5.266	5.358	17128445	13784719	1.840m	1.829m
9)y-chlordane	5.572	5.517	16341732	13779789	1.728	1.799m
10)a-chlordane	5.624	5.675	16654131	13726772	1.779	1.801m
11)Endosulfan I	5.534	5.718	15543839	12906405	1.791m	1.797
12)p,p'-DDE	5.690	5.899	14950236	12502537	1.627	1.666m
13)Dieldrin	5.883	6.024	15738030	13326531	1.629	1.693m
14)Endrin	6.085	6.401	13895556	11113995	2.426	2.749m
15)p,p'-DDD	6.458	6.461	12756803	10493543	1.686m	1.680m
16)Endosulfan II	6.549	6.576	14119098	11647619	1.712m	1.721m
17)p,p'-DDT	6.620	6.771	10502600	7450245	1.752m	1.543m
18)Endrin Aldehyde	6.958	6.904	9450273	9165399	1.531m	1.532m
19)Endosulfan Sulfat	7.265	7.026	13325044	10830476	1.723	1.754m
20)Methoxychlor	7.200	7.647	6553274	4230883	2.030m	1.910m
21)Endrin Ketone	7.670	7.836	15009891	12171545	1.668m	1.542m
22)DCB-Surrogate	8.411	9.104	15511466	13071694	1.990m	2.019m
23)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

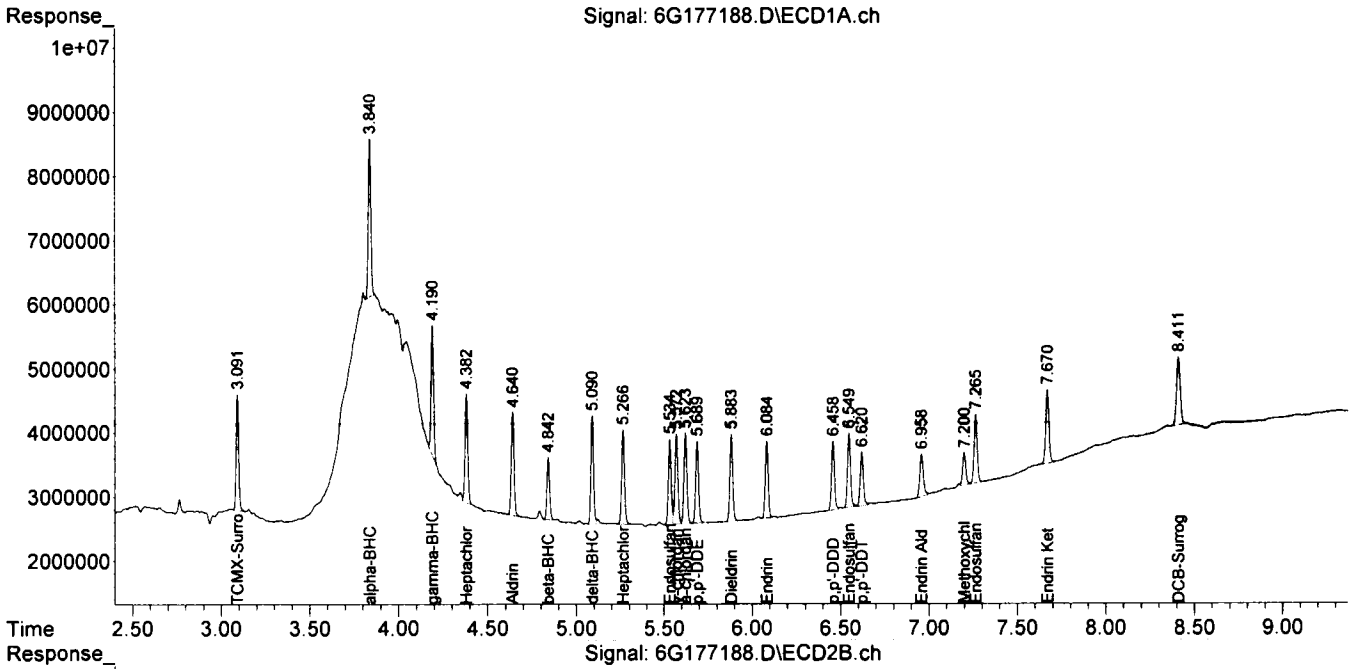
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

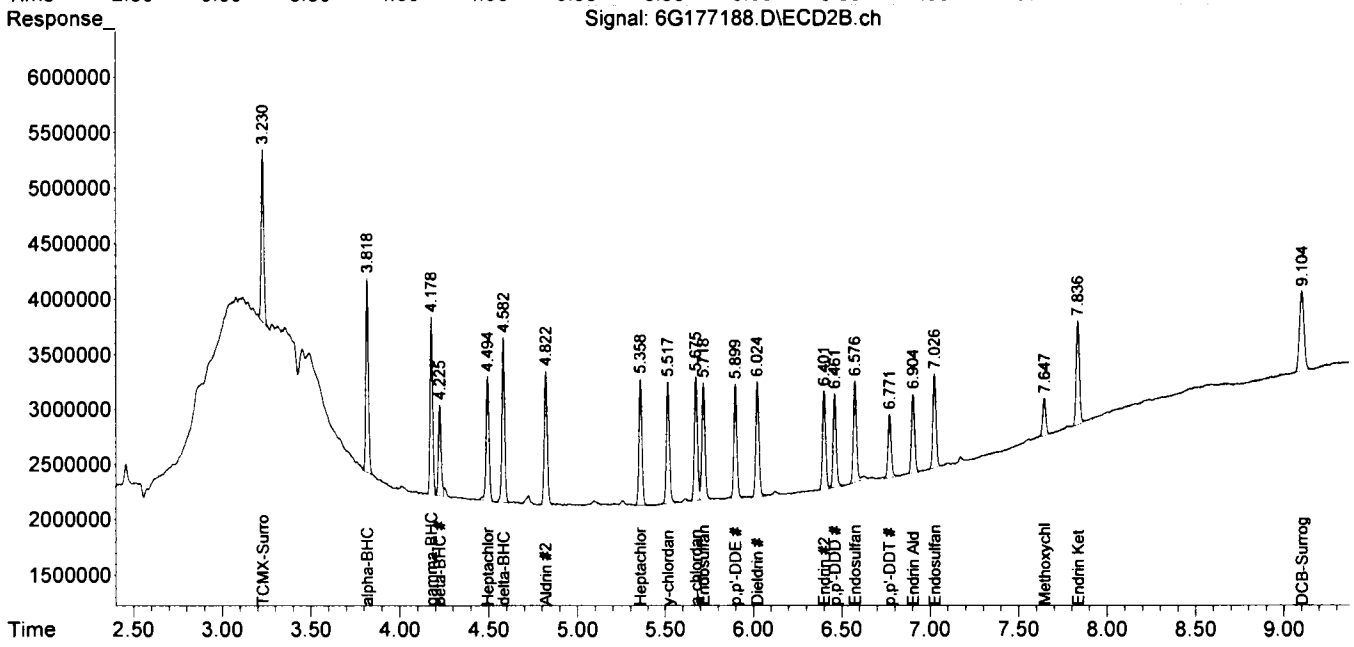
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\0614-23\
Data File : 6G177188.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 11:02
Operator : AH/PR/KM
Sample : CAL PEST@2PPB
Misc : S,PEST
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 12:34:24 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\0614-23\
Data File : 6G177187.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 10:50
Operator : AH/PR/KM
Sample : CAL PEST@10PPB
Misc : S,PEST
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 12:30:14 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.091	3.230	96565640	81117459	10.686m	10.655m
2)alpha-BHC	3.840	3.820	134.4E6	106.3E6	10.070m	10.521m
3)gamma-BHC	4.191	4.179	120.4E6	97707072	10.451m	10.715m
4)beta-BHC	4.843	4.226	55893193	48138999	10.717m	11.078
5)Heptachlor	4.383	4.496	104.6E6	75104203	10.797m	10.804
6)delta-BHC	5.092	4.584	110.4E6	94030895	10.193	10.114
7)Aldrin	4.641	4.822	109.7E6	88309408	10.420	10.394m
8)Heptachlor Epoxid	5.267	5.360	97801838	79045873	10.504	10.489
9)y-chlordane	5.573	5.518	96464614	78898684	10.202	10.299m
10)a-chlordane	5.624	5.676	96974845	78483668	10.358	10.295
11)Endosulfan I	5.535	5.719	88630310	73940402	10.212	10.293
12)p,p'-DDE	5.690	5.901	92715097	75706552	10.091	10.089
13)Dieldrin	5.884	6.025	97137376	78598512	10.056m	9.988
14)Endrin	6.085	6.402	86950850	67919982	15.180m	16.798m
15)p,p'-DDD	6.458	6.462	76042402	62313609	10.052m	9.975
16)Endosulfan II	6.549	6.576	81036082	66595905	9.823	9.843m
17)p,p'-DDT	6.622	6.772	61641358	43771152	10.280	9.043
18)Endrin Aldehyde	6.959	6.904	52941573	49735450	8.575m	8.315
19)Endosulfan Sulfat	7.266	7.027	75689272	61607121	9.790	9.975
20)Methoxychlor	7.202	7.646	38315523	25582224	11.870	11.552m
21)Endrin Ketone	7.672	7.837	84403084	71430111	9.382m	9.049
22)DCB-Surrogate	8.412	9.105	81510573	67282838	10.456m	10.392m
23)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

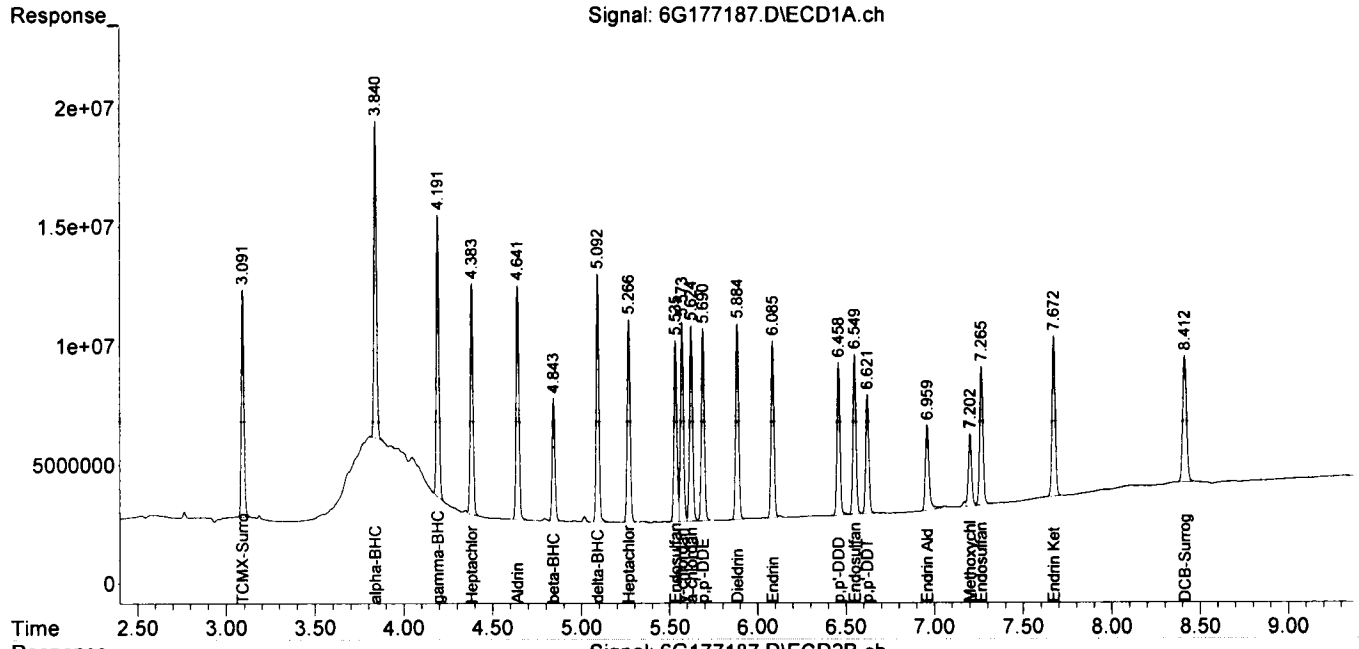
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

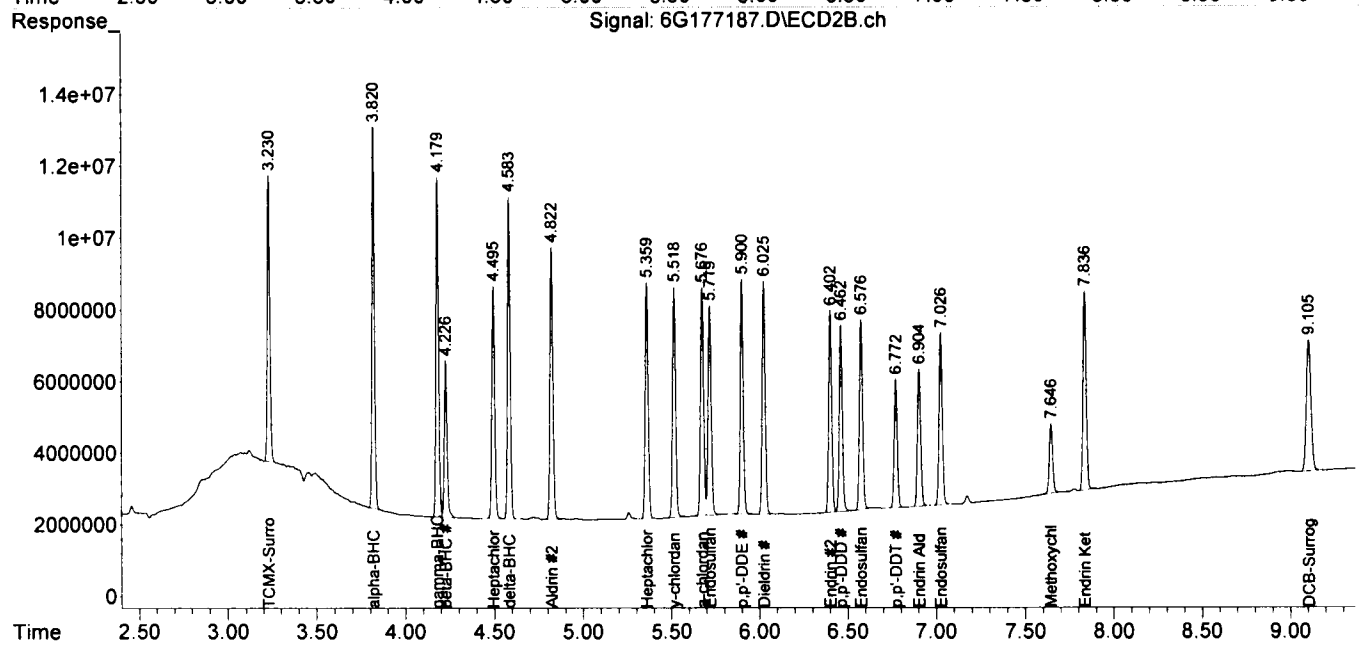
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\0614-23\
Data File : 6G177187.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 10:50
Operator : AH/PR/KM
Sample : CAL PEST@10PPB
Misc : S,PEST
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 12:30:14 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\0614-23\
Data File : 6G177191.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 11:37
Operator : AH/PR/KM
Sample : CAL PEST@50PPB
Misc : S,PEST
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 12:36:54 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.091	3.230	479.7E6	404.0E6	53.087m	53.060m
2)alpha-BHC	3.840	3.820	682.1E6	574.4E6	51.118m	56.869
3)gamma-BHC	4.190	4.180	627.6E6	513.4E6	54.473m	56.301
4)beta-BHC	4.842	4.226	271.9E6	226.4E6	52.136m	52.108
5)Heptachlor	4.382	4.495	570.2E6	419.0E6	58.832	60.272
6)delta-BHC	5.091	4.583	604.4E6	510.6E6	55.799	54.923
7)Aldrin	4.640	4.822	589.7E6	474.6E6	56.010m	55.856
8)Heptachlor Epoxid	5.267	5.359	516.5E6	416.0E6	55.472	55.205
9)y-chlordane	5.573	5.518	518.0E6	418.5E6	54.783	54.630
10)a-chlordane	5.624	5.677	509.6E6	411.0E6	54.434	53.907
11)Endosulfan I	5.535	5.719	469.7E6	388.7E6	54.117	54.113
12)p,p'-DDE	5.690	5.901	511.8E6	411.5E6	55.701	54.834
13)Dieldrin	5.884	6.026	535.3E6	428.8E6	55.416	54.495
14)Endrin	6.084	6.401	480.8E6	372.6E6	83.933m	92.152m
15)p,p'-DDD	6.458	6.462	415.2E6	340.2E6	54.881m	54.449
16)Endosulfan II	6.549	6.576	436.4E6	361.4E6	52.906	53.412
17)p,p'-DDT	6.621	6.772	364.6E6	268.0E6	60.813	54.513
18)Endrin Aldehyde	6.958	6.904	282.0E6	260.0E6	45.671m	43.468
19)Endosulfan Sulfat	7.265	7.027	388.3E6	319.2E6	50.225	51.682
20)Methoxychlor	7.201	7.647	204.6E6	141.9E6	63.377	64.074
21)Endrin Ketone	7.672	7.836	455.7E6	386.4E6	50.655	48.950
22)DCB-Surrogate	8.412	9.105	395.6E6	321.4E6	50.743	49.642m
23)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

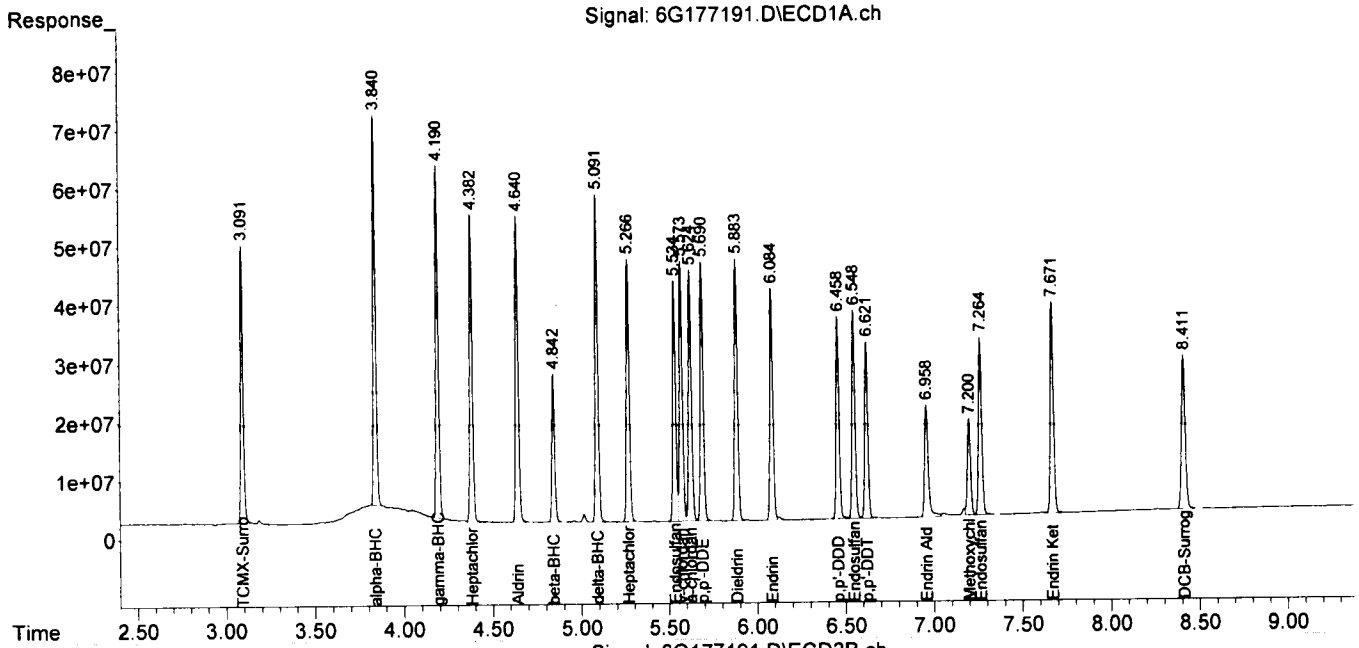
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

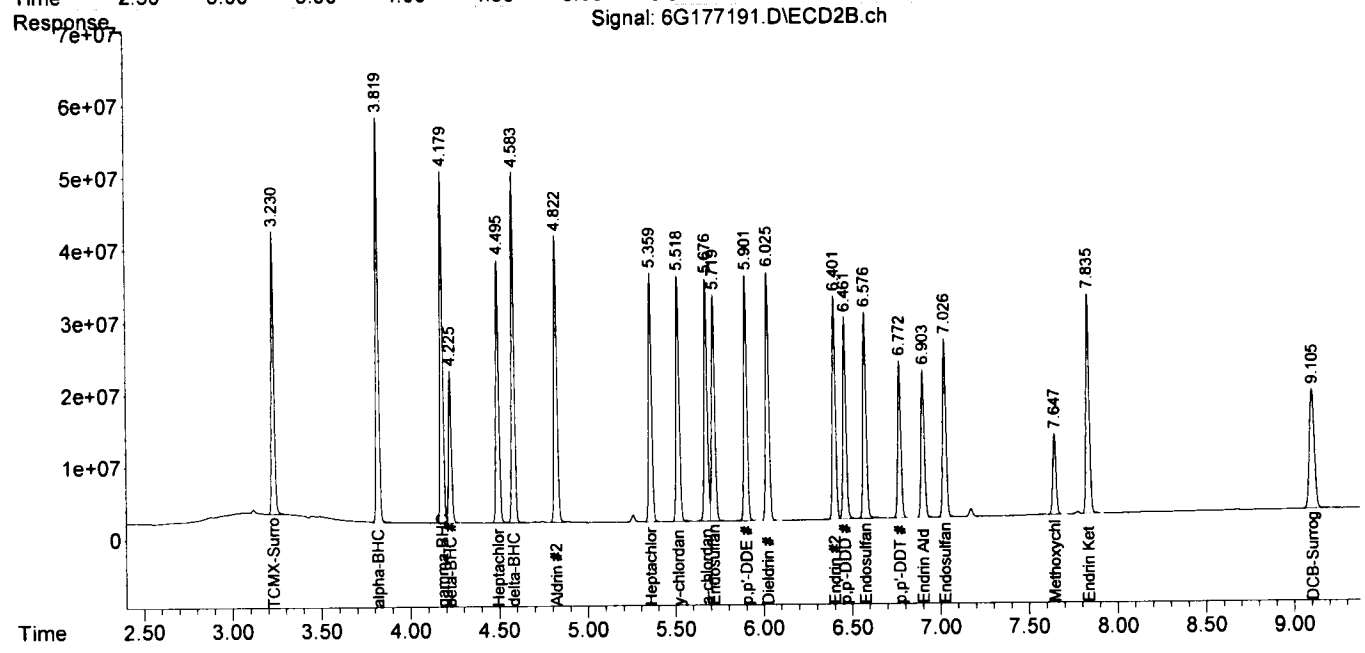
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\0614-23\
Data File : 6G177191.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 11:37
Operator : AH/PR/KM
Sample : CAL PEST@50PPB
Misc : S,PEST
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 12:36:54 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P
Signal #1 Info : .32
Signal #2 Phase: db-17
Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\0614-23\
Data File : 6G177186.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 10:39
Operator : AH/PR/KM
Sample : CAL PEST@100PPB
Misc : S,PEST
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 11:08:54 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.095	3.230	954.3E6	794.4E6	105.611m	104.343m
2)alpha-BHC	3.845	3.820	1360.0E6	1129.0E6	101.926m	111.782
3)gamma-BHC	4.195	4.180	1249.6E6	1014.2E6	108.462m	111.215
4)beta-BHC	4.848	4.226	534.9E6	440.6E6	102.553	101.391
5)Heptachlor	4.387	4.496	1118.2E6	808.8E6	115.380	116.343
6)delta-BHC	5.097	4.584	1208.6E6	1011.5E6	111.580	108.791
7)Aldrin	4.646	4.824	1175.9E6	945.3E6	111.692	111.261
8)Heptachlor Epoxid	5.272	5.361	1034.9E6	826.0E6	111.147	109.615
9)y-chlordane	5.578	5.520	1037.8E6	834.4E6	109.757	108.925
10)a-chlordane	5.629	5.678	1013.6E6	816.1E6	108.260	107.058
11)Endosulfan I	5.541	5.721	939.0E6	777.4E6	108.185	108.221
12)p,p'-DDE	5.695	5.903	1027.6E6	827.0E6	111.850	110.204
13)Dieldrin	5.889	6.028	1078.0E6	866.6E6	111.602	110.127
14)Endrin	6.090	6.404	978.7E6	759.7E6	170.869	187.895
15)p,p'-DDD	6.464	6.464	832.5E6	681.7E6	110.044	109.119
16)Endosulfan II	6.554	6.578	878.1E6	711.1E6	106.441	105.105m
17)p,p'-DDT	6.626	6.775	744.9E6	546.0E6	124.228	109.035
18)Endrin Aldehyde	6.963	6.906	560.3E6	510.8E6	90.748	85.393
19)Endosulfan Sulfat	7.270	7.028	796.6E6	630.8E6	103.036	102.132
20)Methoxychlor	7.205	7.649	415.0E6	281.2E6	128.580	126.985
21)Endrin Ketone	7.675	7.838	911.0E6	760.3E6	101.265	96.323
22)DCB-Surrogate	8.417	9.108	794.9E6	636.5E6	101.966	98.313
23)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

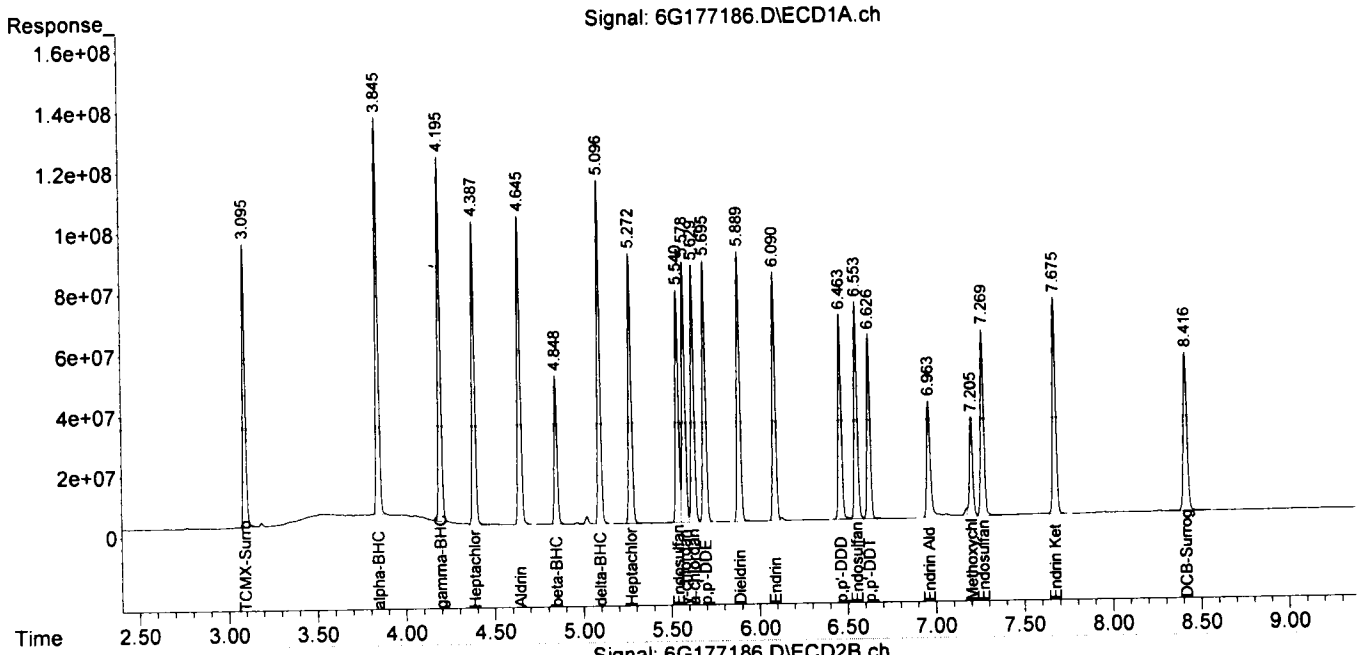
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

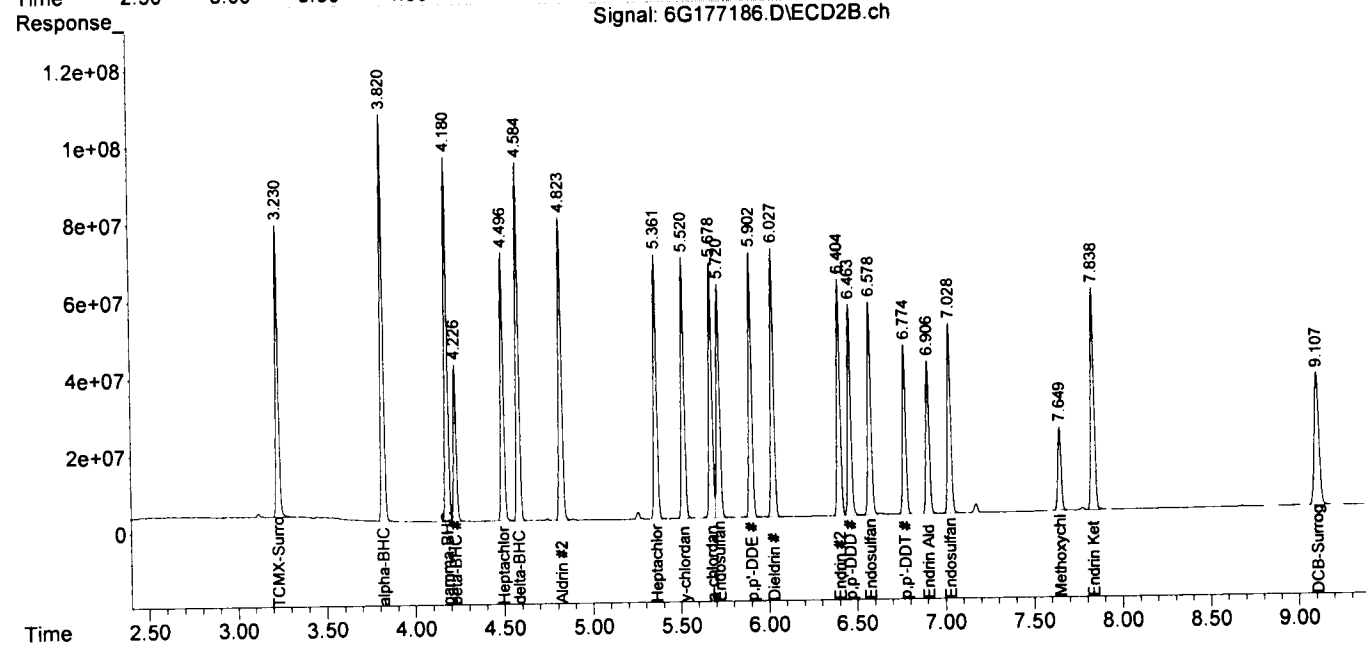
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\0614-23\
Data File : 6G177186.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 10:39
Operator : AH/PR/KM
Sample : CAL PEST@100PPB
Misc : S,PEST
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 11:08:54 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P
Signal #1 Info : .32
Signal #2 Phase: db-17
Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\0614-23\
Data File : 6G177190.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 11:26
Operator : AH/PR/KM
Sample : CAL PEST@200PPB
Misc : S,PEST
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 12:18:06 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.091	3.230	1903.8E6	1575.6E6	210.677m	206.954m
2)alpha-BHC	3.840	3.820	2752.7E6	2295.1E6	206.295m	227.235
3)gamma-BHC	4.191	4.180	2534.0E6	2051.6E6	219.943m	224.976
4)beta-BHC	4.843	4.226	1086.5E6	888.2E6	208.317	204.395
5)Heptachlor	4.383	4.495	2293.0E6	1724.4E6	236.588	248.062
6)delta-BHC	5.092	4.583	2474.9E6	2052.7E6	228.487	220.778
7)Aldrin	4.641	4.823	2389.6E6	1921.7E6	226.975	226.175
8)Heptachlor Epoxid	5.267	5.360	2104.5E6	1682.2E6	226.012	223.227
9)y-chlordane	5.573	5.518	2129.2E6	1711.1E6	225.194	223.360
10)a-chlordane	5.624	5.677	2077.6E6	1668.4E6	221.909	218.856
11)Endosulfan I	5.535	5.719	1913.5E6	1583.3E6	220.468	220.415
12)p,p'-DDE	5.690	5.900	2116.9E6	1698.1E6	230.415	226.292
13)Dieldrin	5.884	6.025	2214.8E6	1777.3E6	229.290	225.859
14)Endrin	6.085	6.402	2005.6E6	1557.6E6	350.151	385.207
15)p,p'-DDD	6.458	6.462	1727.8E6	1415.7E6	228.392m	226.611
16)Endosulfan II	6.549	6.576	1792.4E6	1467.8E6	217.272	216.937
17)p,p'-DDT	6.622	6.772	1603.7E6	1228.4E6	267.453	235.412
18)Endrin Aldehyde	6.959	6.904	1158.5E6	1057.9E6	187.642	176.861
19)Endosulfan Sulfat	7.266	7.027	1611.0E6	1294.3E6	208.366	209.579
20)Methoxychlor	7.202	7.647	886.2E6	625.3E6	274.546	282.363
21)Endrin Ketone	7.672	7.836	1889.3E6	1599.7E6	210.016	202.660
22)DCB-Surrogate	8.414	9.105	1604.2E6	1296.5E6	205.784	200.262m
23)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

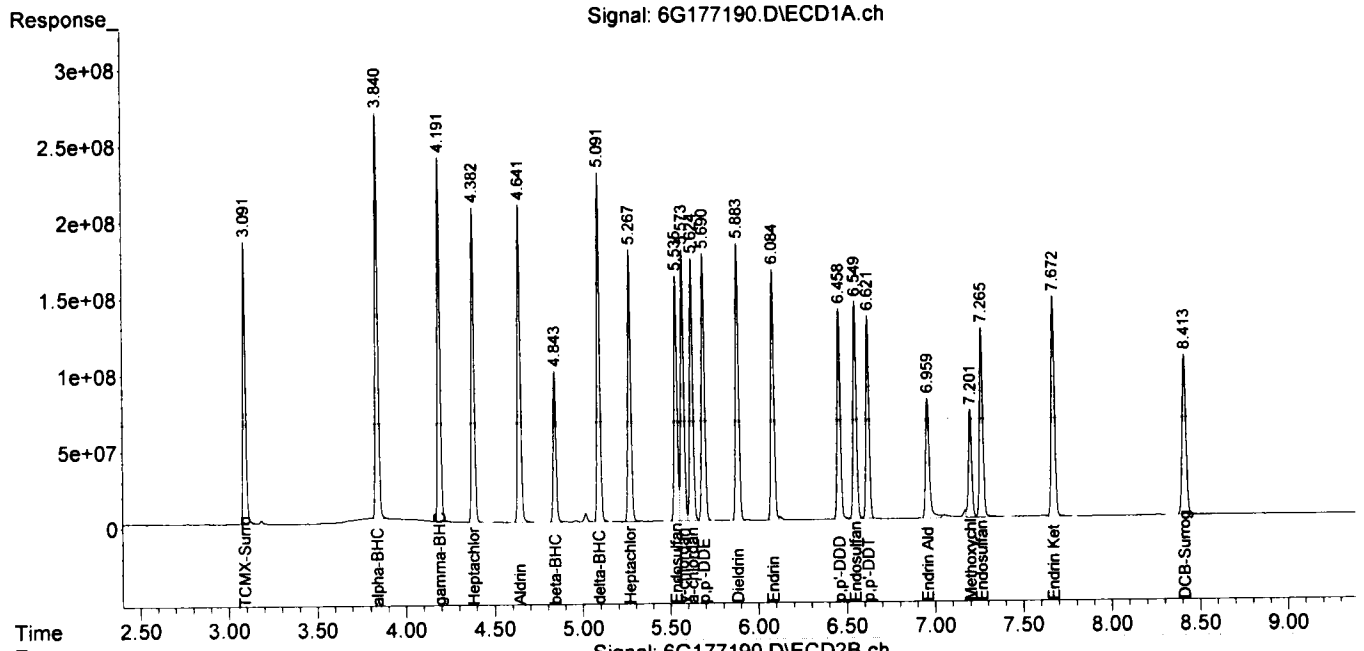
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

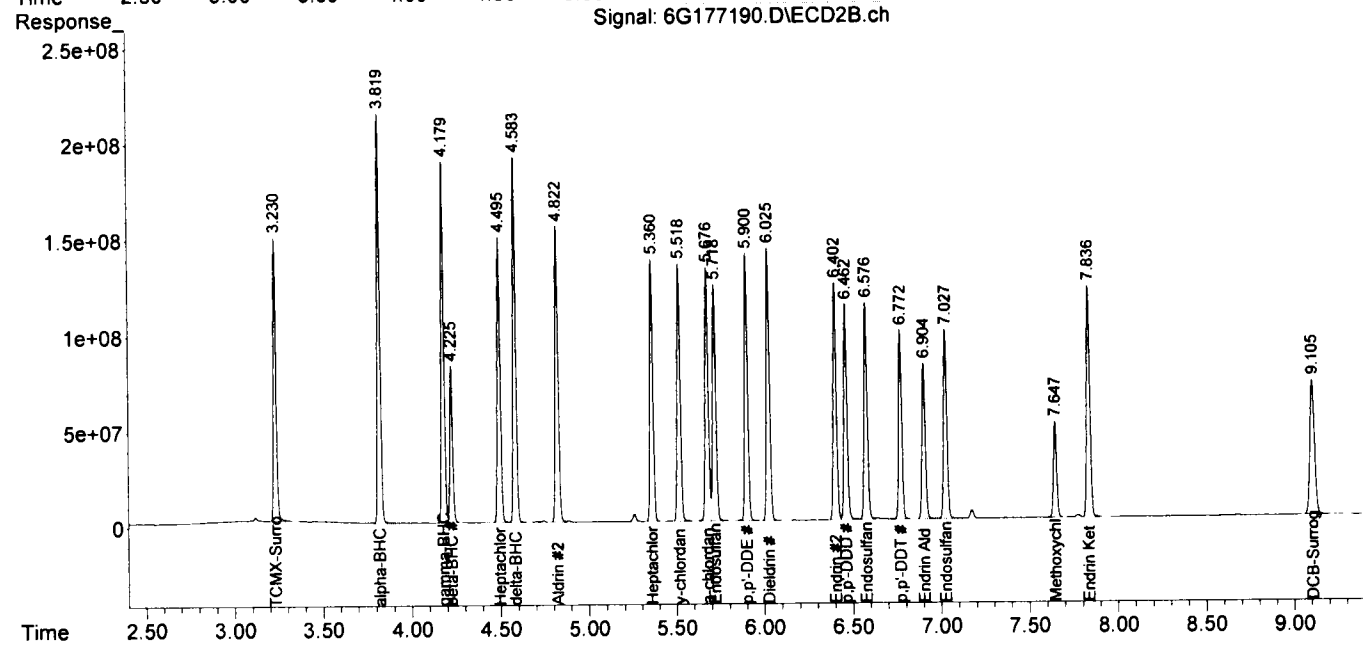
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\0614-23\
Data File : 6G177190.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 11:26
Operator : AH/PR/KM
Sample : CAL PEST@200PPB
Misc : S,PEST
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 12:18:06 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P
Signal #1 Info : .32
Signal #2 Phase: db-17
Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\0614-23\
Data File : 6G177189.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 11:14
Operator : AH/PR/KM
Sample : CAL PEST@400PPB
Misc : S,PEST
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 12:15:33 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.092	3.230	3656.6E6	2992.5E6	404.657	393.060m
2)alpha-BHC	3.841	3.820	5321.0E6	4366.2E6	398.772m	432.295
3)gamma-BHC	4.191	4.180	4889.1E6	3917.0E6	424.362m	429.541
4)beta-BHC	4.843	4.226	2069.6E6	1681.6E6	396.820	387.003
5)Heptachlor	4.383	4.496	4415.7E6	3315.7E6	455.609	476.978
6)delta-BHC	5.092	4.584	4800.7E6	3942.6E6	443.215	424.058
7)Aldrin	4.642	4.823	4592.2E6	3674.1E6	436.188	432.426
8)Heptachlor Epoxid	5.268	5.360	4051.5E6	3213.8E6	435.115	426.461
9)y-chlordane	5.574	5.519	4112.8E6	3274.8E6	434.976	427.491
10)a-chlordane	5.625	5.677	4005.2E6	3185.5E6	427.785	417.867
11)Endosulfan I	5.535	5.720	3678.8E6	3019.5E6	423.862	420.355
12)p,p'-DDE	5.691	5.901	4107.0E6	3257.8E6	447.018	434.145
13)Dieldrin	5.884	6.026	4294.0E6	3420.4E6	444.540	434.656
14)Endrin	6.085	6.402	3904.9E6	3023.2E6	681.735m	747.673
15)p,p'-DDD	6.459	6.462	3359.0E6	2733.0E6	444.010	437.481
16)Endosulfan II	6.550	6.577	3488.1E6	2820.2E6	422.827	416.821
17)p,p'-DDT	6.623	6.773	3203.4E6	2419.0E6	534.242	435.654m
18)Endrin Aldehyde	6.960	6.905	2271.6E6	2052.2E6	367.928	343.095
19)Endosulfan Sulfat	7.266	7.028	3099.5E6	2487.3E6	400.884	402.740
20)Methoxychlor	7.202	7.647	1705.2E6	1232.5E6	528.292m	556.513m
21)Endrin Ketone	7.672	7.837	3689.4E6	3102.8E6	410.113	393.088
22)DCB-Surrogate	8.413	9.107	3090.4E6	2485.7E6	396.435	383.938m
23)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

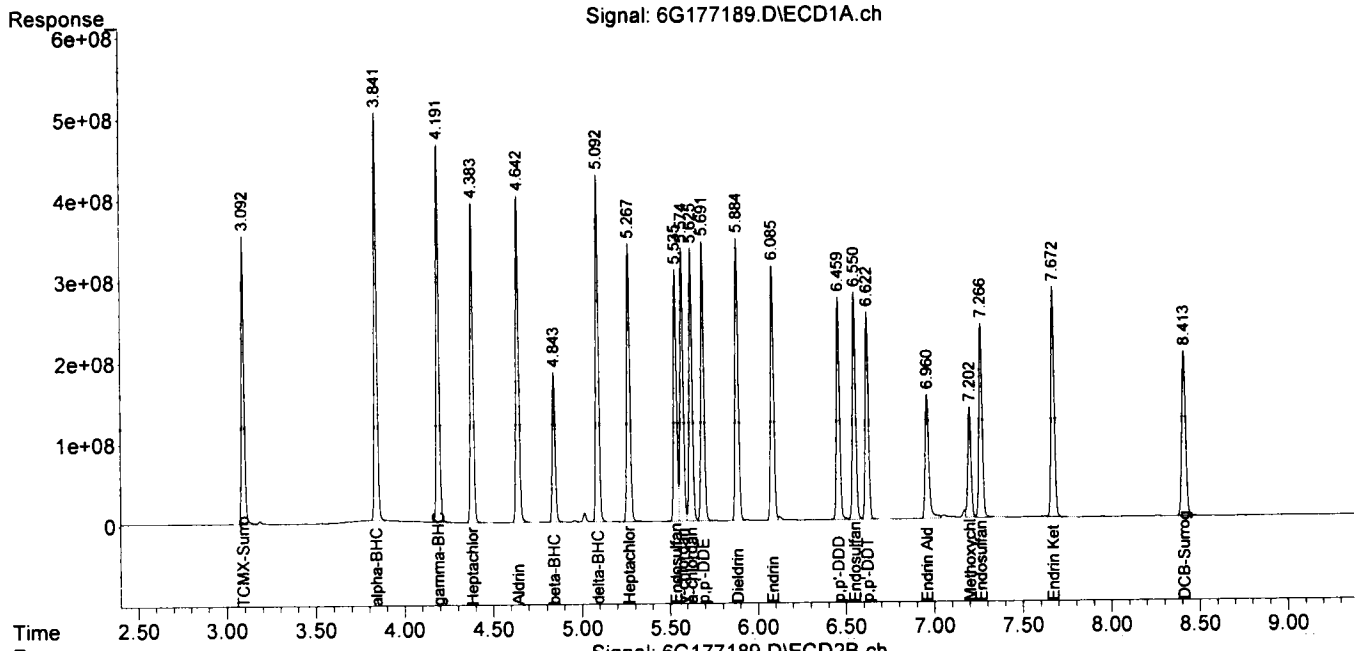
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

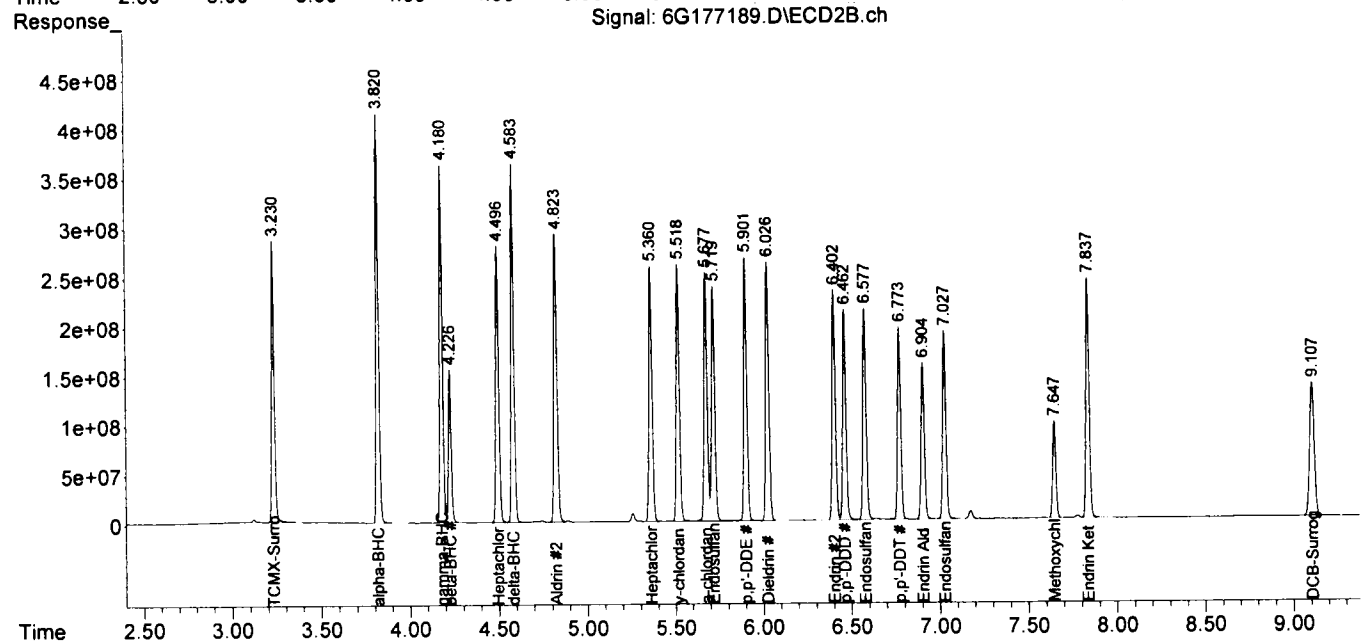
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\0614-23\
Data File : 6G177189.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 11:14
Operator : AH/PR/KM
Sample : CAL PEST@400PPB
Misc : S,PEST
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 12:15:33 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P
Signal #1 Info : .32
Signal #2 Phase: db-17
Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\0614-23\
Data File : 6G177192.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 11:49
Operator : AH/PR/KM
Sample : CAL CHLORO@100PPB
Misc : S,PEST
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 12:21:32 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.092	3.230	972.2E6	791.7E6	107.592	103.989m
2)alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)gamma-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)Heptachlor Epoxid	0.000	0.000	0	0	N.D. d	N.D. d
9)y-chlordane	0.000	0.000	0	0	N.D. d	N.D. d
10)a-chlordane	0.000	0.000	0	0	N.D. d	N.D. d
11)Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
12)p,p'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)p,p'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)Endosulfan II	0.000	0.000	0	0	N.D. d	N.D. d
17)p,p'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)Endrin Aldehyde	0.000	0.000	0	0	N.D. d	N.D. d
19)Endosulfan Sulfat	0.000	0.000	0	0	N.D. d	N.D. d
20)Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)Endrin Ketone	0.000	0.000	0	0	N.D. d	N.D. d
22)DCB-Surrogate	8.413	9.105	779.9E6	629.7E6	100.040	97.257m
23)Chlordane (Techni	4.382	4.345	53388093	29067795	117.924m	115.624
24)Chlordane (Techni	5.573	5.518	104.7E6	93873392	110.171	105.368m
25)Chlordane (Techni	5.626	5.676	150.5E6	69161089	108.207	108.695
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

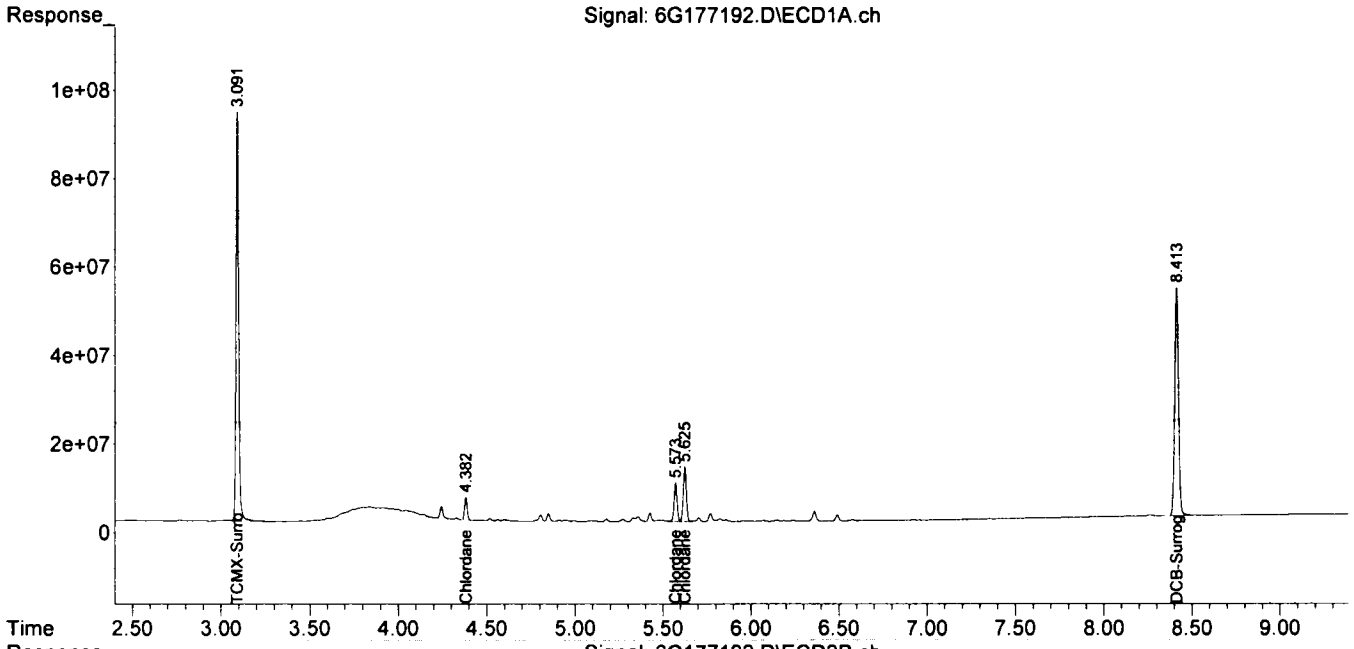
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

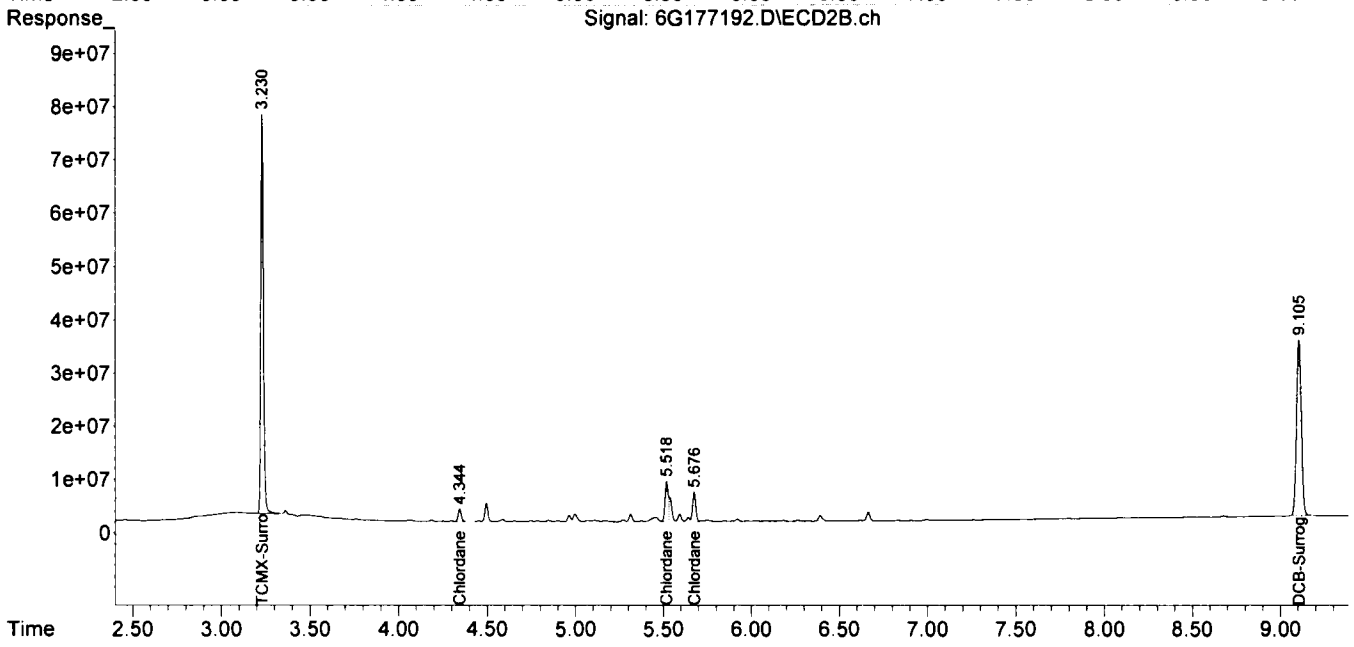
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\0614-23\
Data File : 6G177192.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 11:49
Operator : AH/PR/KM
Sample : CAL CHLORO@100PPB
Misc : S,PEST
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 14 12:21:32 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_6\DATA\0614-23\
Data File : 6G177193.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 12:01
Operator : AH/PR/KM
Sample : TOX@4000PPB
Misc : S,PEST
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 14:32:12 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
	Target Compounds						
1)	TCMX-Surrogate	3.092	3.231	3835.5E6	3107.9E6	424.454m	408.217m
22)	DCB-Surrogate	8.412	9.106	3222.0E6	2608.1E6	413.318m	402.846m
26)	Toxaphene {1}	5.906	5.810	401.3E6	239.2E6	4743.206m	4517.642m
27)	Toxaphene {2}	5.957	5.882	387.8E6	162.7E6	4634.948m	4087.375m
28)	Toxaphene {3}	6.840	6.811	532.3E6	454.2E6	4486.840m	4507.603m
29)	Toxaphene {4}	7.204	7.429	1095.8E6	589.2E6	4879.474m	4983.884m
30)	Toxaphene {5}	7.268	7.489	328.0E6	446.2E6	4999.803m	4949.734m

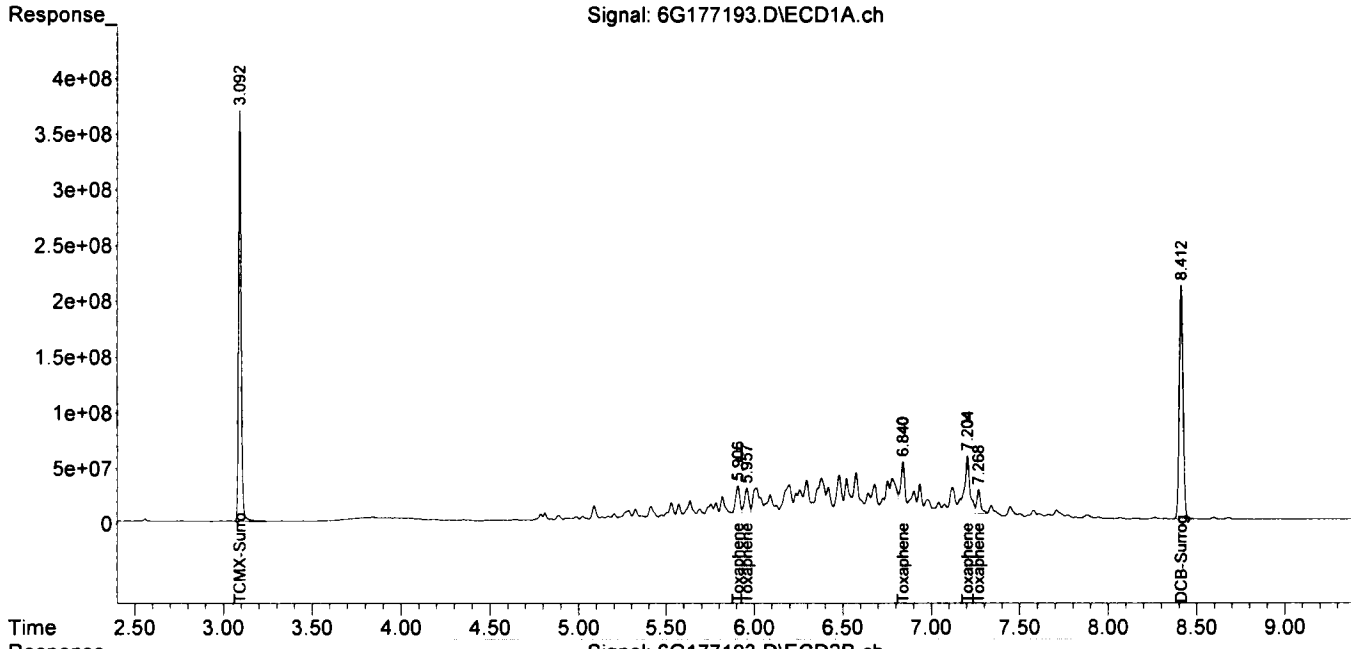
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

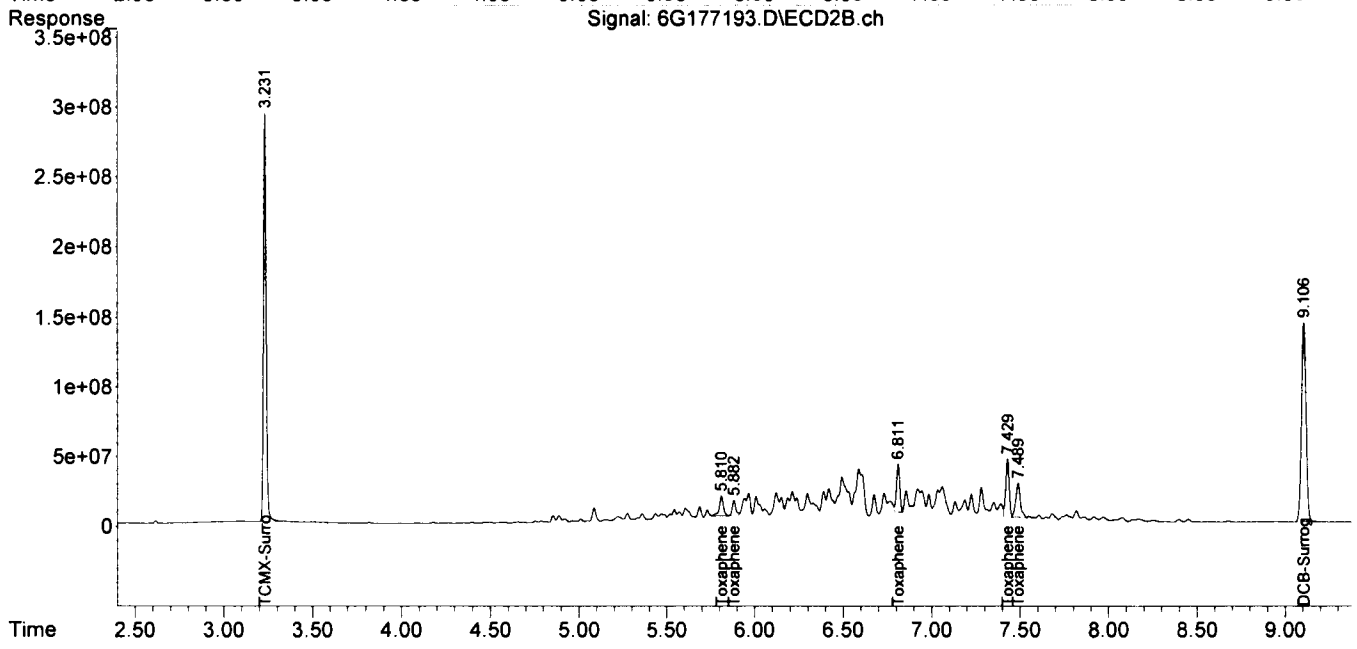
Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_6\DATA\0614-23\
Data File : 6G177193.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 12:01
Operator : AH/PR/KM
Sample : TOX@4000PPB
Misc : S,PEST
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 14:32:12 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\GCDATA\2023\GC_6\DATA\0614-23\
Data File : 6G177194.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 12:12
Operator : AH/PR/KM
Sample : TOX@200PPB
Misc : S,PEST
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 14:33:22 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.091	3.230	204.3E6	169.6E6	22.608m	22.275m
22)DCB-Surrogate	8.411	9.105	166.4E6	137.3E6	21.351m	21.211m
26)Toxaphene {1}	5.906	5.810	19742509	10494159	233.343m	198.224m
27)Toxaphene {2}	5.956	5.881	19592390	9263815	234.164m	232.759m
28)Toxaphene {3}	6.839	6.811	24181295	21009102	203.817m	208.481m
29)Toxaphene {4}	7.204	7.428	45120261	23299701	200.908m	197.077m
30)Toxaphene {5}	7.266	7.488	13515677	16277908	206.030m	180.579

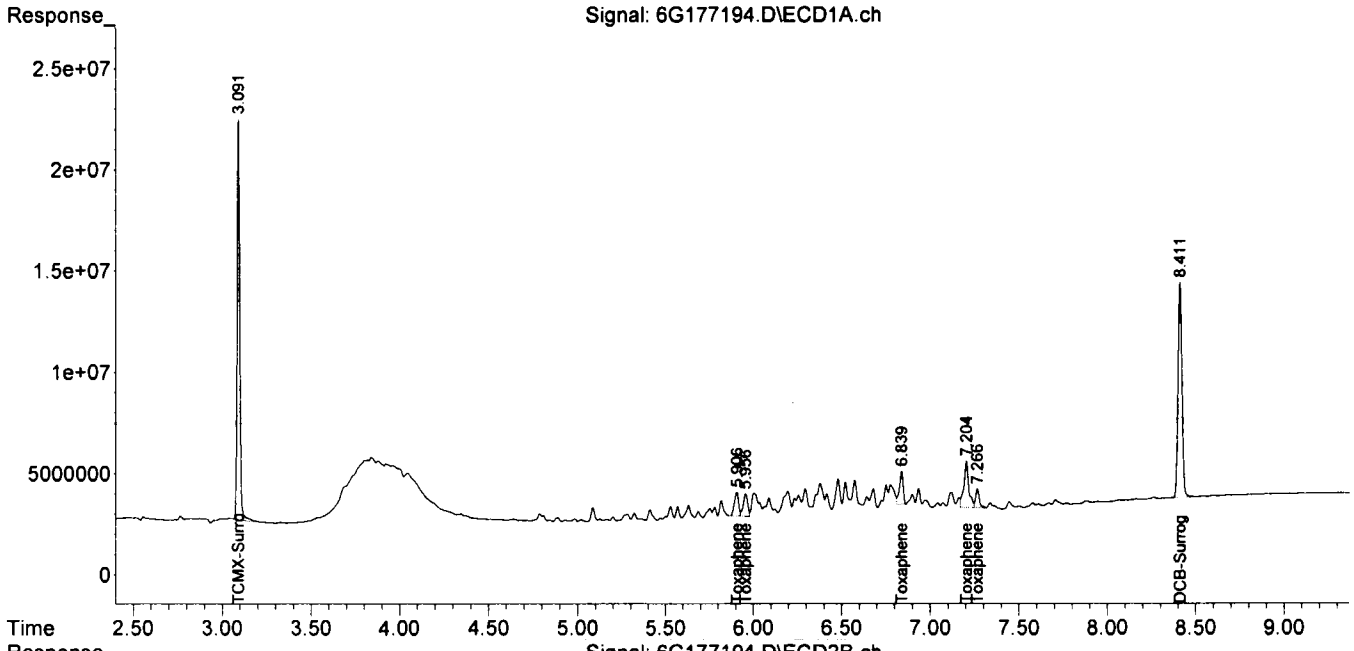
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

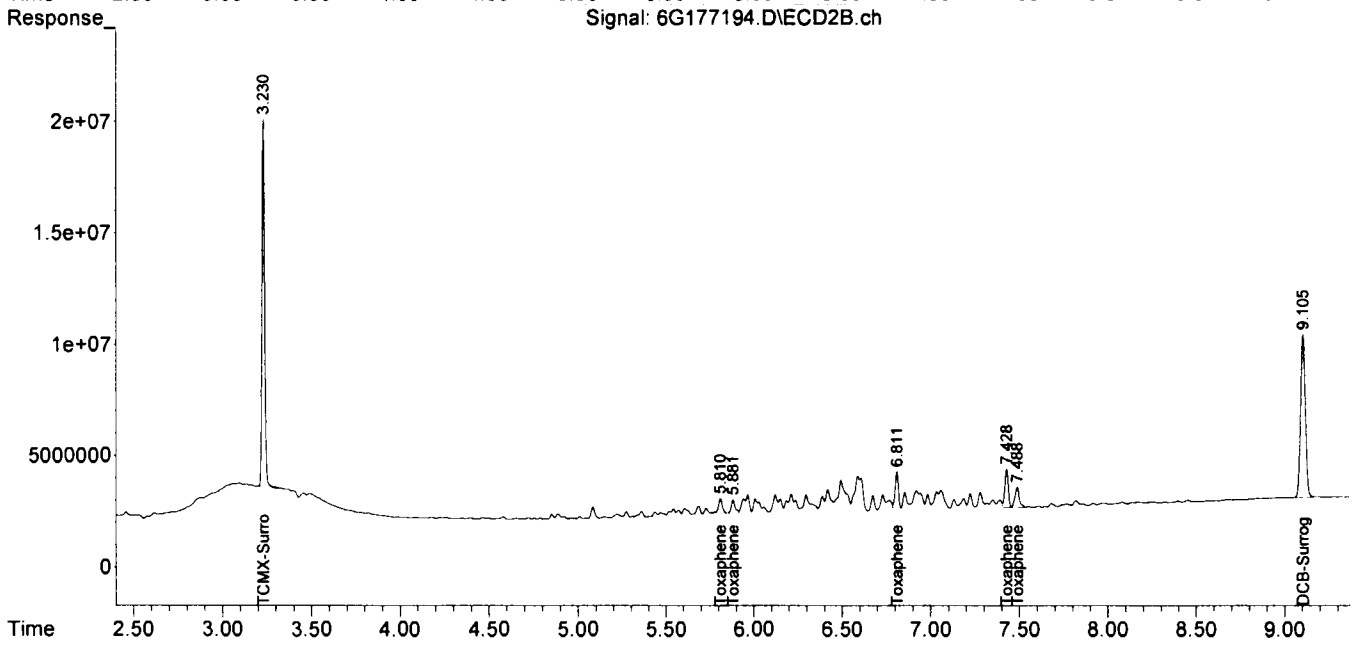
Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_6\DATA\0614-23\
Data File : 6G177194.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 12:12
Operator : AH/PR/KM
Sample : TOX@200PPB
Misc : S,PEST
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 14:33:22 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\GCDATA\2023\GC_6\DATA\0614-23\
Data File : 6G177195.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 12:24
Operator : AH/PR/KM
Sample : TOX@1000PPB
Misc : S,PEST
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 14:34:01 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
	Target Compounds						
1)	TCMX-Surrogate	3.091	3.230	975.5E6	809.9E6	107.952m	106.378m
22)	DCB-Surrogate	8.412	9.105	806.0E6	659.6E6	103.387m	101.885m
26)	Toxaphene {1}	5.906	5.809	95125896	54030485	1124.321m	1020.580m
27)	Toxaphene {2}	5.957	5.881	90144543	41313785	1077.387m	1038.034m
28)	Toxaphene {3}	6.839	6.811	130.5E6	110.5E6	1100.048m	1096.141m
29)	Toxaphene {4}	7.204	7.428	249.4E6	142.1E6	1110.651m	1201.531m
30)	Toxaphene {5}	7.267	7.488	76719516	101.1E6	1169.497m	1121.535m

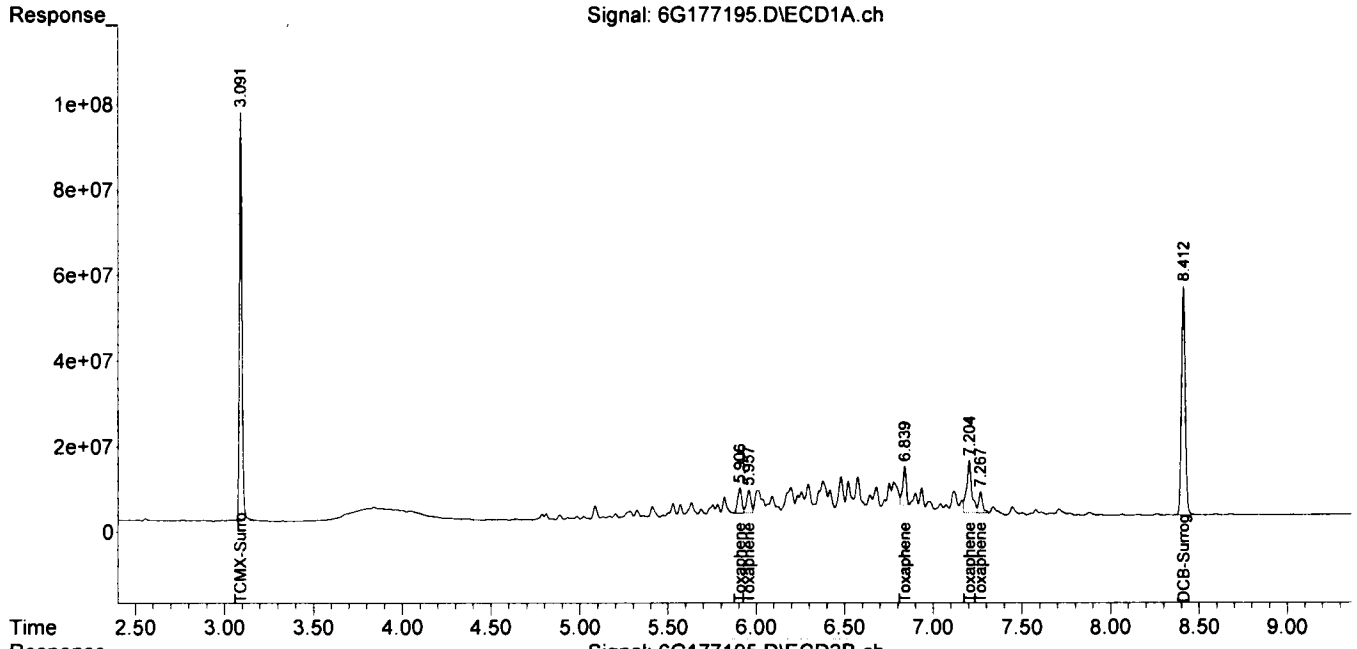
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

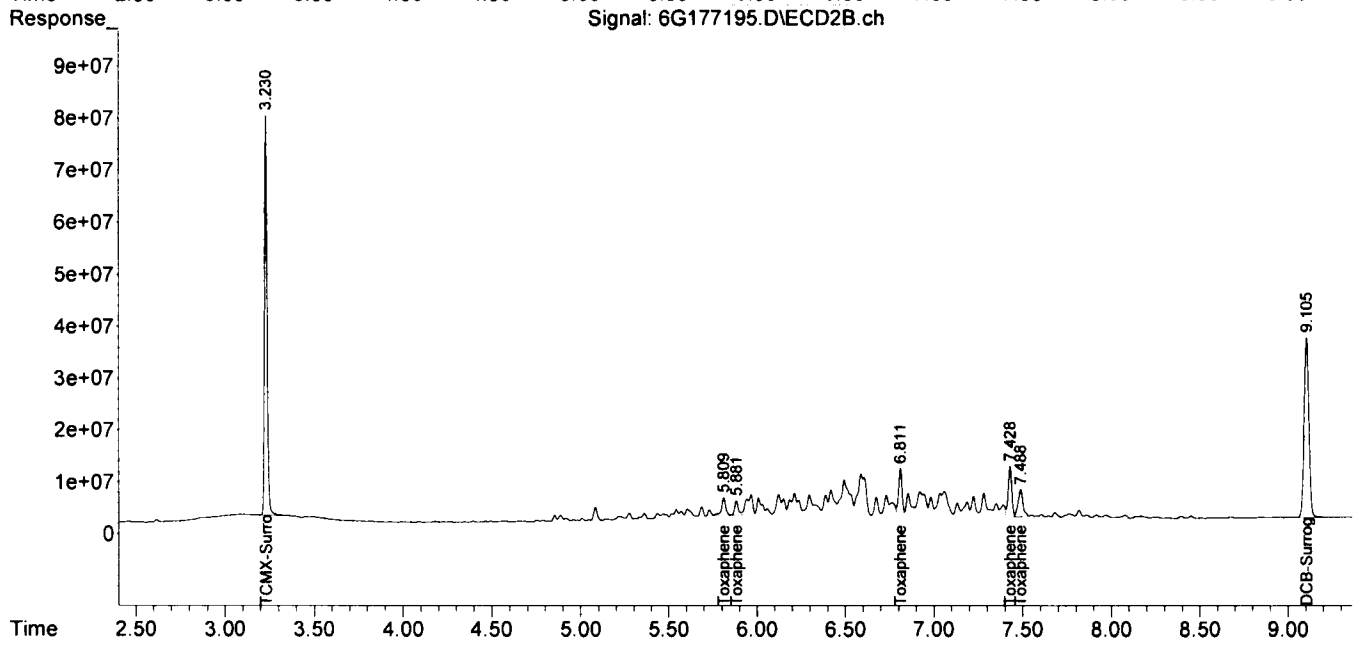
Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_6\DATA\0614-23\
Data File : 6G177195.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 12:24
Operator : AH/PR/KM
Sample : TOX@1000PPB
Misc : S,PEST
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 14:34:01 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_6\DATA\0614-23\
Data File : 6G177196.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 12:36
Operator : AH/PR/KM
Sample : TOX@500PPB
Misc : S,PEST
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 14:34:39 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
	Target Compounds						
1)	TCMX-Surrogate	3.091	3.230	497.8E6	421.4E6	55.086m	55.345m
22)	DCB-Surrogate	8.412	9.106	407.2E6	332.3E6	52.241m	51.328m
26)	Toxaphene {1}	5.906	5.810	48276223	27011293	570.591m	510.215m
27)	Toxaphene {2}	5.956	5.881	47007918	20664061	561.828m	519.197m
28)	Toxaphene {3}	6.838	6.811	63812045	53595354	537.854m	531.846m
29)	Toxaphene {4}	7.204	7.429	115.8E6	65078754	515.410m	550.458m
30)	Toxaphene {5}	7.266	7.489	35340513	44929931	538.724m	498.431m

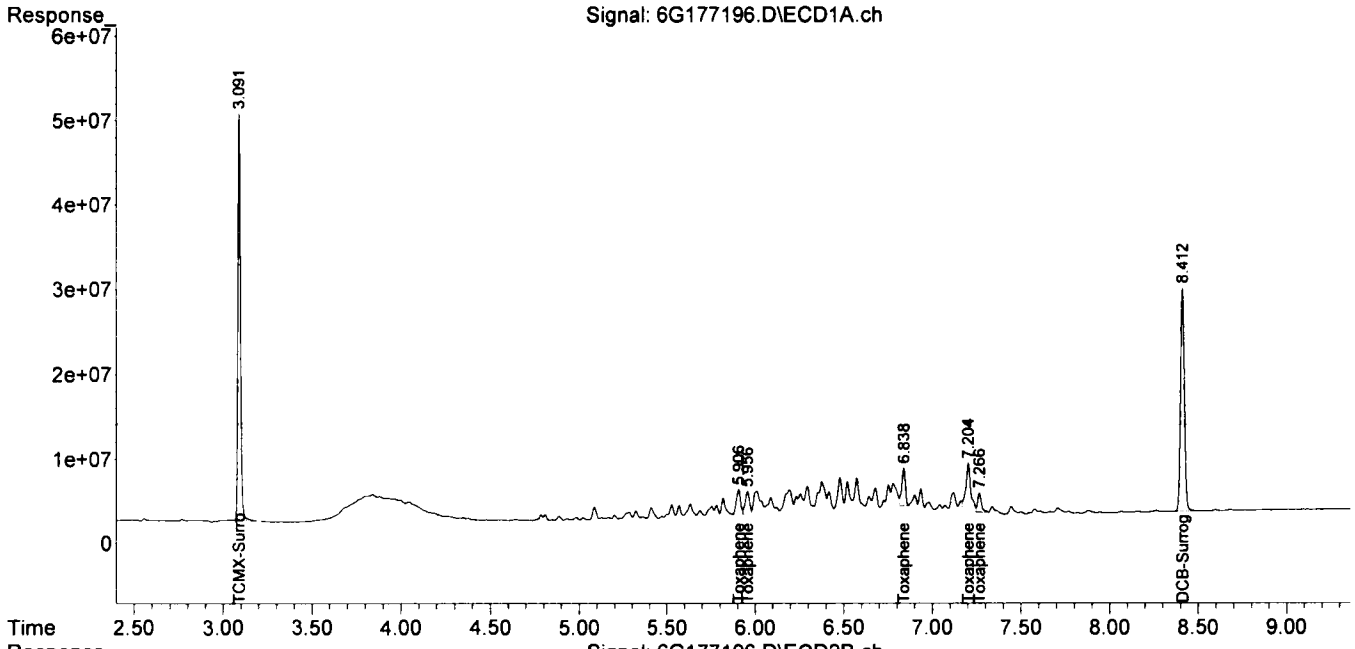
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

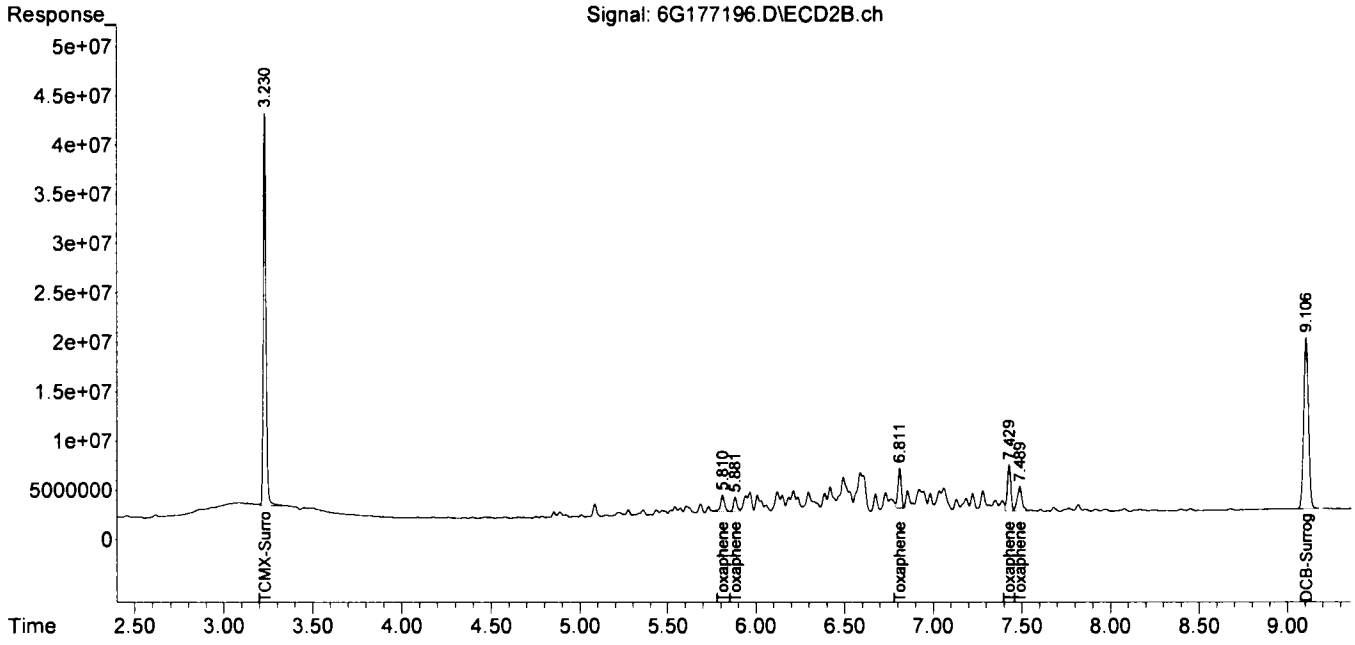
Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_6\DATA\0614-23\
Data File : 6G177196.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 12:36
Operator : AH/PR/KM
Sample : TOX@500PPB
Misc : S,PEST
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 14:34:39 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_6\DATA\0614-23\
Data File : 6G177197.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 12:48
Operator : AH/PR/KM
Sample : TOX@2000PPB
Misc : S,PEST
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 14:35:16 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
	Target Compounds						
1)	TCMX-Surrogate	3.091	3.230	1976.1E6	1631.7E6	218.682m	214.314m
22)	DCB-Surrogate	8.411	9.106	1657.6E6	1349.9E6	212.629m	208.507m
26)	Toxaphene {1}	5.906	5.810	200.2E6	110.9E6	2365.640m	2095.583m
27)	Toxaphene {2}	5.957	5.881	189.3E6	88409543	2262.474m	2221.344m
28)	Toxaphene {3}	6.839	6.811	274.8E6	232.6E6	2316.220m	2308.008m
29)	Toxaphene {4}	7.204	7.429	534.6E6	289.7E6	2380.200m	2450.234m
30)	Toxaphene {5}	7.267	7.489	167.4E6	225.6E6	2552.260m	2502.386m

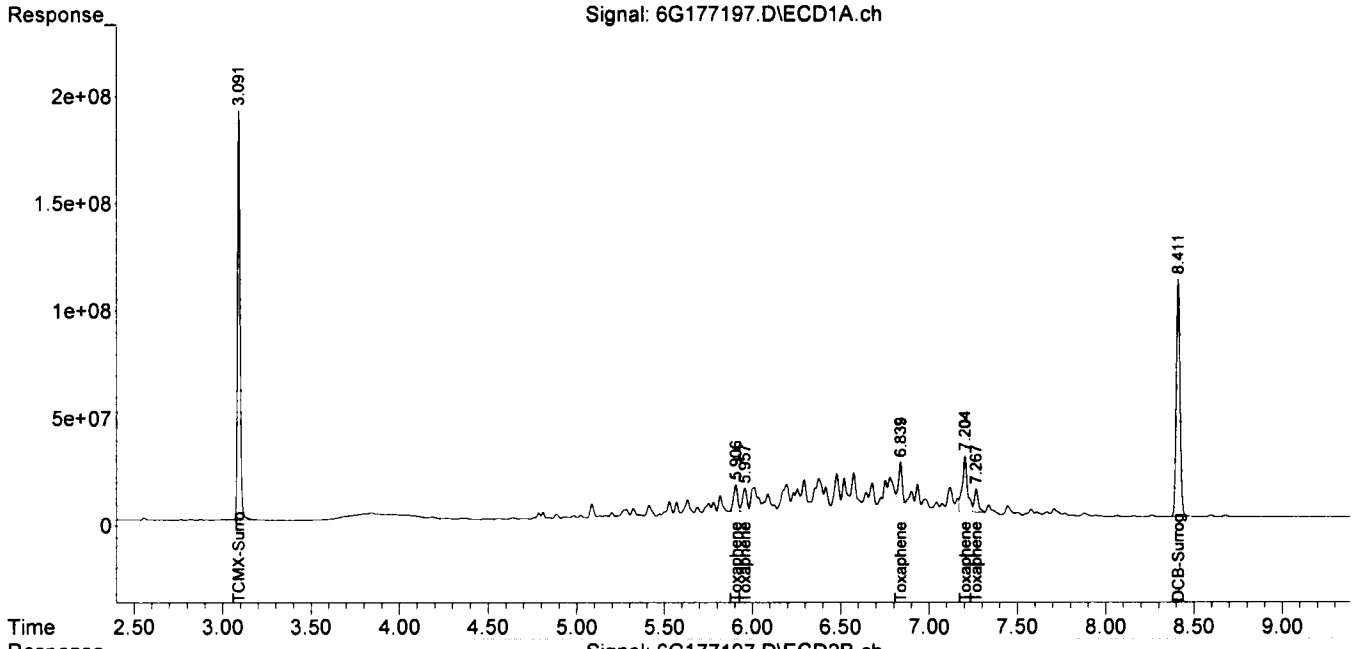
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

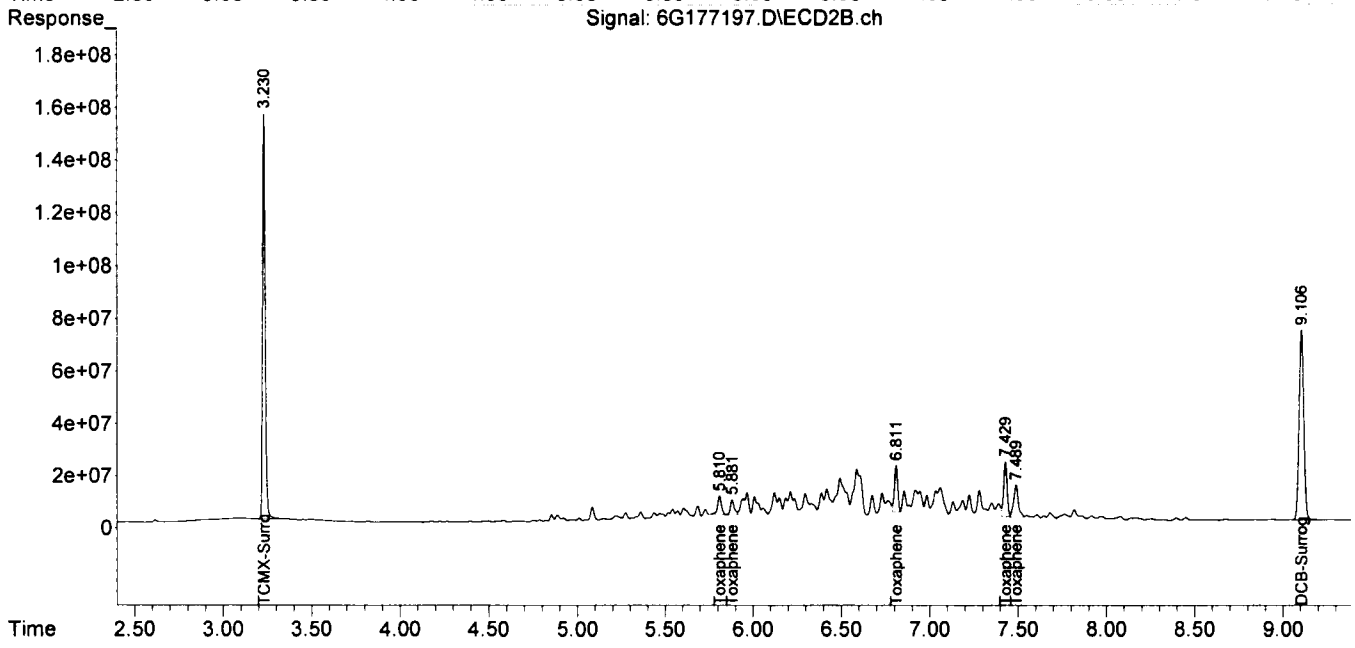
Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_6\DATA\0614-23\
Data File : 6G177197.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 12:48
Operator : AH/PR/KM
Sample : TOX@2000PPB
Misc : S,PEST
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 14:35:16 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\GCDATA\2023\GC_6\DATA\0614-23\
Data File : 6G177198.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 12:59
Operator : AH/PR/KM
Sample : TOX@50PPB
Misc : S,PEST
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 14:35:47 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

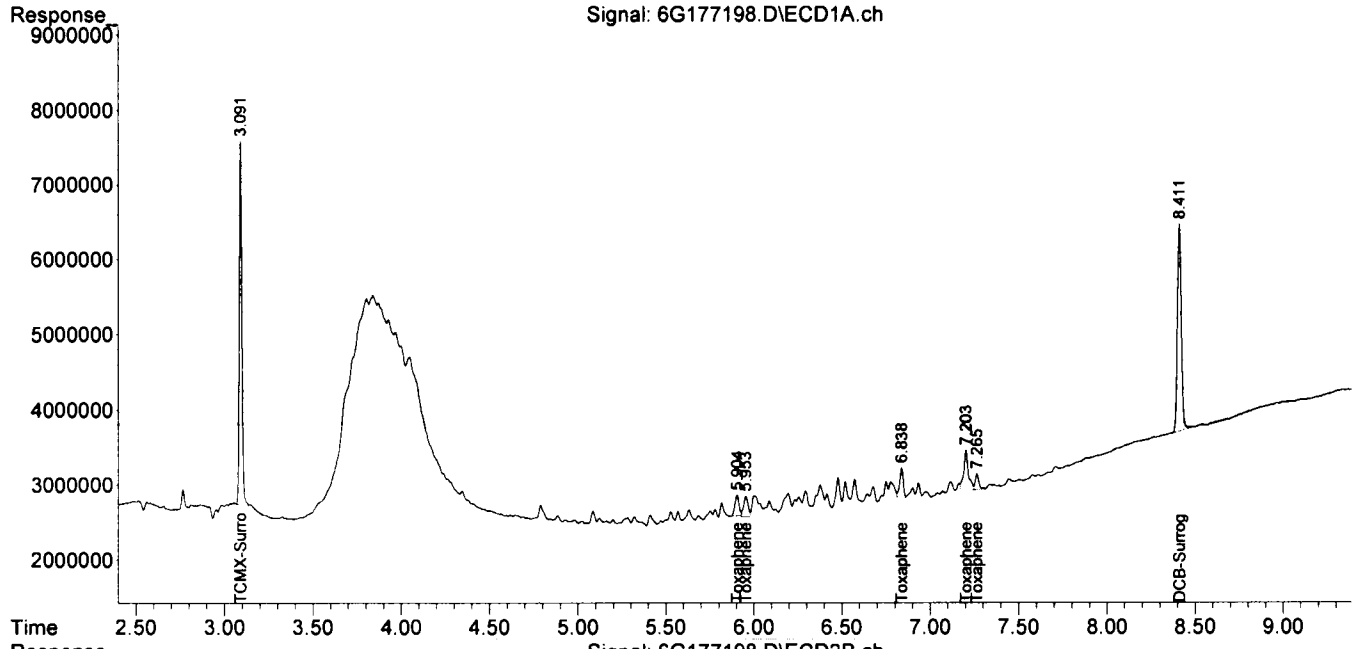
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.091	3.230	48680292	41864906	5.387m	5.499m
22)DCB-Surrogate	8.411	9.103	42728238	35729427	5.481m	5.519m
26)Toxaphene {1}	5.905	5.809	4563410	2659039	53.936	50.227
27)Toxaphene {2}	5.953	5.879	4942801	2140098	59.075m	53.771
28)Toxaphene {3}	6.838	6.809	5517402	5169713	46.505m	51.301m
29)Toxaphene {4}	7.203	7.428	10184223	5236280	45.347m	44.290m
30)Toxaphene {5}	7.265	7.487	3077368	3425204	46.911m	37.998

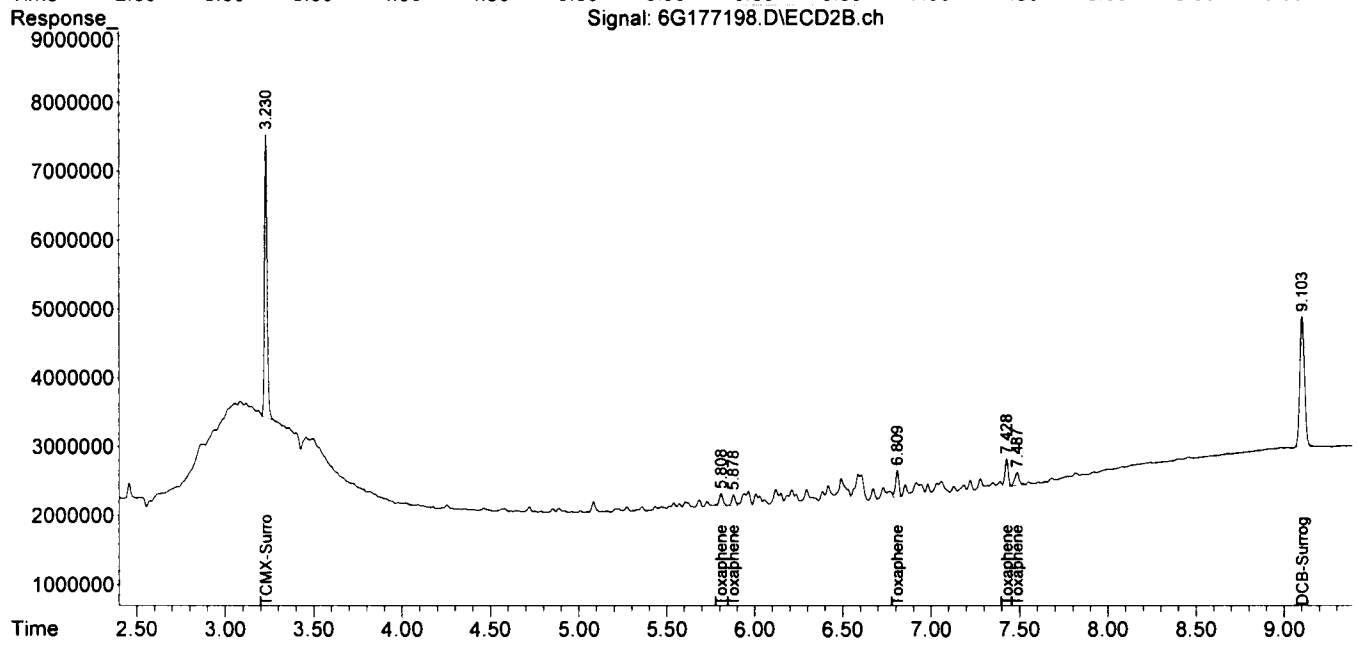
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\GCDATA\2023\GC_6\DATA\0614-23\
Data File : 6G177198.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 12:59
Operator : AH/PR/KM
Sample : TOX@50PPB
Misc : S,PEST
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 14:35:47 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Fri May 19 08:56:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_6\DATA\0614-23\
Data File : 6G177199.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 13:11
Operator : AH/PR/KM
Sample : TOX ICV
Misc : S,PEST
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 14:24:37 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Mon Jun 26 14:17:27 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
	Target Compounds						
1)	TCMX-Surrogate	3.091	3.230	477.9E6	500.3E6	50.729	63.516 #
22)	DCB-Surrogate	8.410	9.103	391.6E6	321.6E6	49.444	49.797
26)	Toxaphene {1}	5.905	5.809	46255924	25217990	476.814m	459.948m
27)	Toxaphene {2}	5.956	5.880	46526615	20076572	487.547m	469.376m
28)	Toxaphene {3}	6.838	6.810	61458496	53799565	485.280m	492.112m
29)	Toxaphene {4}	7.204	7.427	104.3E6	61968409	430.957m	473.293m
30)	Toxaphene {5}	7.266	7.487	31707037	44870457	430.180m	476.346m

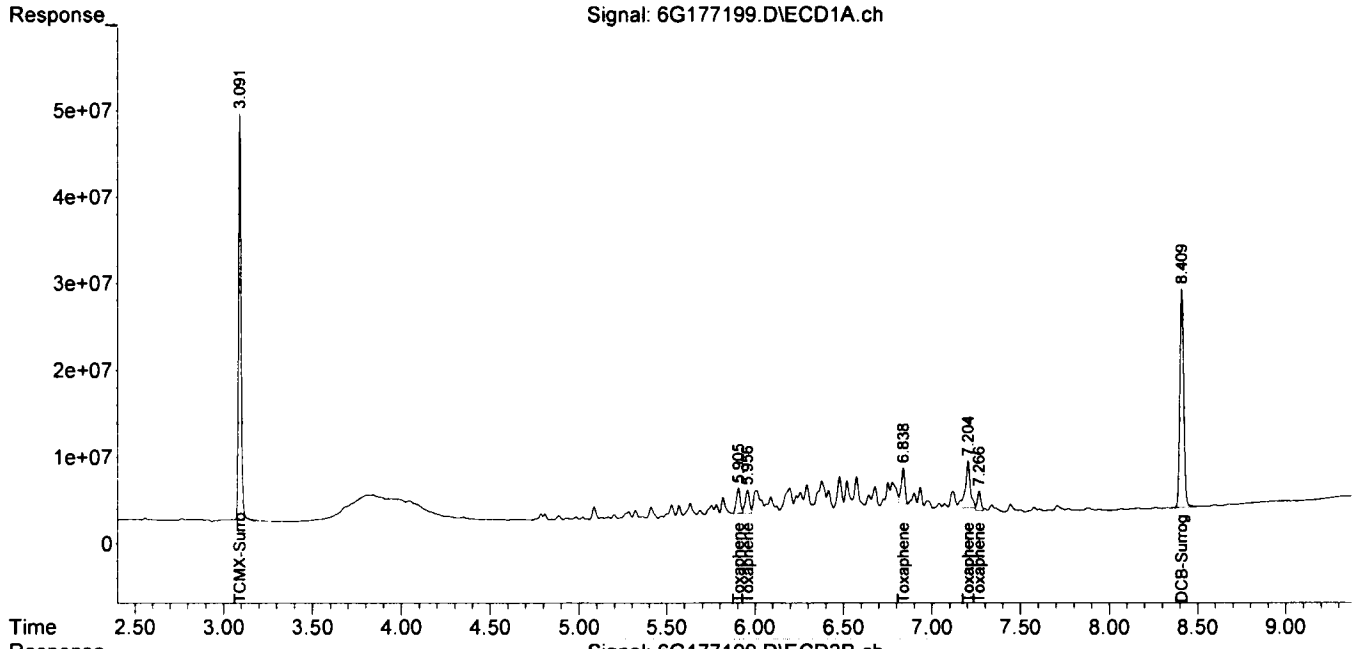
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

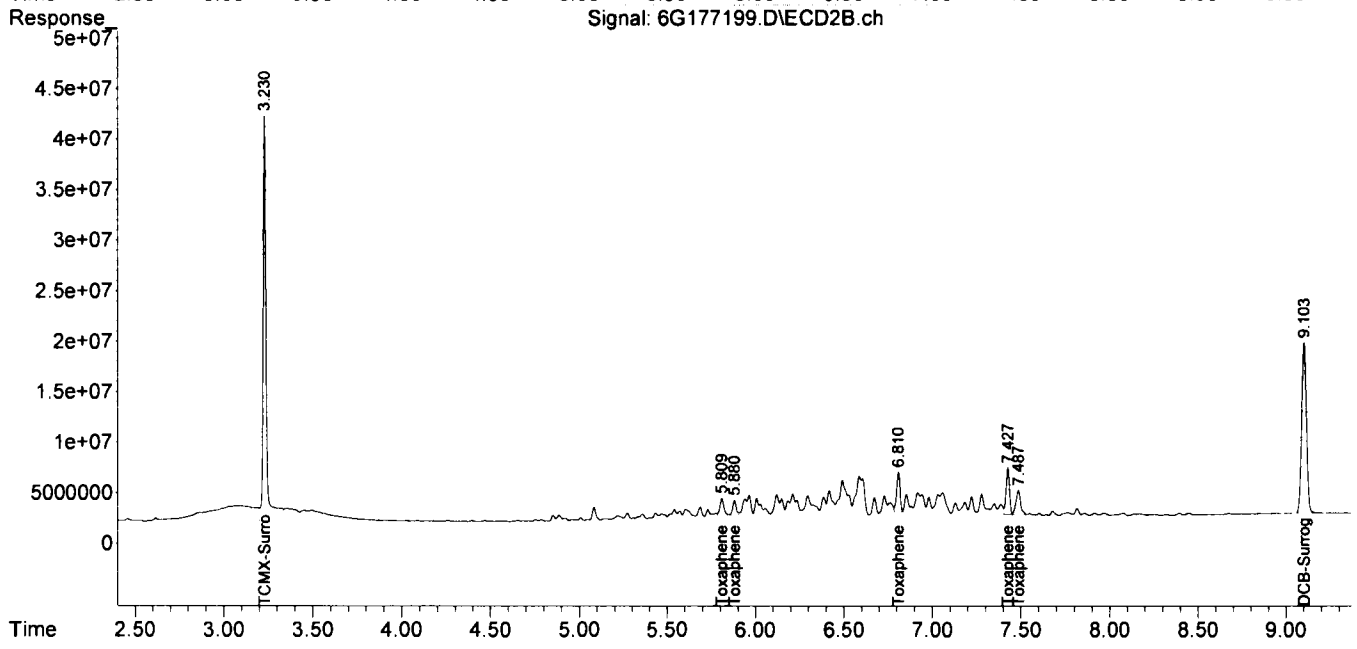
Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_6\DATA\0614-23\
Data File : 6G177199.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 13:11
Operator : AH/PR/KM
Sample : TOX ICV
Misc : S,PEST
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 26 14:24:37 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Mon Jun 26 14:17:27 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





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Form 6
Initial Calibration

Method: EPA 8081B

Instrument: GC_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3G149291.D	CAL PEST@2PPB	07/03/23 16:01	2	3G149293.D	CAL PEST@10PPB	07/03/23 16:25
3	3G149294.D	CAL PEST@50PPB	07/03/23 16:36	4	3G149295.D	CAL PEST@100PPB	07/03/23 16:48
5	3G149296.D	CAL PEST@200PPB	07/03/23 17:00	6	3G149297.D	CAL PEST@400PPB	07/03/23 17:12
7	3G149298.D	CAL CHLORO@100P	07/03/23 17:23				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
TCMX-Surrogate	1	0	Avg	1295.5	1143.2	1092.9	1074.4	1032.0	1010.2	----	----	1110	3.14	1.00	1.00	9.3	2.00	10.00	50.00	100.0	200.0	400.0		
alpha-BHC	1	0	Avg	1695.8	1623.9	1547.7	1544.6	1488.1	1476.9	----	----	1560	3.90	1.00	1.00	5.3	2.00	10.00	50.00	100.0	200.0	400.0		
gamma-BHC	1	0	Avg	1525.9	1417.4	1394.5	1404.1	1369.1	1374.8	----	----	1410	4.25	1.00	1.00	4.1	2.00	10.00	50.00	100.0	200.0	400.0		
beta-BHC	1	0	Avg	701.22	639.41	615.20	613.45	589.84	572.58	----	----	622	4.91	1.00	1.00	7.3	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor	1	0	Avg	1487.3	1361.7	1326.3	1320.5	1284.3	1264.1	----	----	1340	4.45	1.00	1.00	5.9	2.00	10.00	50.00	100.0	200.0	400.0		
delta-BHC	1	0	Avg	1304.8	1284.2	1334.3	1361.4	1330.4	1322.4	----	----	1320	5.16	1.00	1.00	2.0	2.00	10.00	50.00	100.0	200.0	400.0		
Aldrin	1	0	Avg	1347.7	1330.8	1342.1	1342.4	1307.5	1286.6	----	----	1330	4.71	1.00	1.00	1.8	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor Epoxide	1	0	Avg	1333.0	1236.8	1203.9	1201.9	1170.7	1146.6	----	----	1220	5.34	1.00	1.00	5.4	2.00	10.00	50.00	100.0	200.0	400.0		
v-chlordane	1	0	Avg	1278.2	1236.5	1217.4	1215.9	1184.7	1166.2	----	----	1220	5.65	1.00	1.00	3.2	2.00	10.00	50.00	100.0	200.0	400.0		
a-chlordane	1	0	Avg	1299.5	1233.3	1193.0	1185.1	1155.1	1134.1	----	----	1200	5.70	1.00	1.00	4.9	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan I	1	0	Avg	1161.1	1120.3	1089.4	1091.9	1058.3	1040.4	----	----	1090	5.61	1.00	1.00	4.0	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDE	1	0	Avg	1128.1	1137.6	1181.2	1188.5	1171.2	1162.6	----	----	1160	5.77	1.00	1.00	2.1	2.00	10.00	50.00	100.0	200.0	400.0		
Dieldrin	1	0	Avg	1199.2	1207.4	1231.1	1251.1	1222.1	1208.4	----	----	1220	5.96	1.00	1.00	1.6	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin	1	0	Avg	1034.7	1062.6	1058.9	1070.9	1056.2	1047.5	----	----	1060	6.17	1.00	1.00	1.2	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDD	1	0	Avg	859.04	885.05	955.01	966.64	952.18	946.63	----	----	927	6.54	1.00	1.00	4.8	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan II	1	0	Avg	1127.7	1033.2	1034.0	1016.5	1013.9	999.63	----	----	1040	6.63	1.00	1.00	4.4	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDT	1	0	Avg	811.40	834.92	898.03	934.48	942.73	951.30	----	----	895	6.70	1.00	1.00	6.6	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Aldehyde	1	0	Avg	746.34	604.98	644.09	645.79	645.38	639.69	----	----	654	7.04	1.00	1.00	7.3	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan Sulfate	1	0	Avg	1029.1	928.16	898.09	906.10	891.60	878.85	----	----	922	7.35	1.00	1.00	6.0	2.00	10.00	50.00	100.0	200.0	400.0		
Methoxychlor	1	0	Avg	496.46	494.22	492.48	503.31	510.23	508.12	----	----	501	7.29	1.00	1.00	1.5	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Ketone	1	0	Avg	1163.9	1075.6	1057.1	1078.5	1059.0	1057.8	----	----	1080	7.76	1.00	1.00	3.8	2.00	10.00	50.00	100.0	200.0	400.0		
DCB-Surrogate	1	0	Avg	1318.5	1182.8	1010.0	978.92	931.57	905.55	----	----	1050	8.53	1.00	1.00	15	2.00	10.00	50.00	100.0	200.0	400.0		
Chlordane (Technical)	1	1	Avg	----	----	----	----	----	----	----	----	68.6	4.45	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	1	2	Avg	----	----	----	----	----	----	----	----	123	5.65	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	1	3	Avg	----	----	----	----	----	----	----	----	181	5.70	-1	-1	Lvl=7	100.0							
Toxaphene	1	1	Avg	7.9008	6.3142	6.5436	6.1745	6.7579	6.3000	----	----	6.67	5.89	0.998	0.999	9.6	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	1	2	Avg	12.074	11.264	11.276	10.976	11.653	11.214	----	----	11.4	5.98	0.999	1.00	3.4	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	1	3	Avg	18.155	15.387	15.214	14.786	15.825	14.504	----	----	15.6	6.55	0.998	0.999	8.4	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	1	4	Avg	25.567	28.781	29.382	29.765	32.827	31.652	----	----	29.7	7.29	0.999	0.999	8.5	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	1	5	Avg	7.1240	9.7249	9.6034	9.4113	10.448	10.033	----	----	9.39	7.35	0.999	0.999	12	50.00	200.0	500.0	1000.	2000.	4000.		
TCMX-Surrogate	2	0	Avg	1138.0	965.39	901.14	892.71	874.96	861.95	----	----	939	3.17	1.00	1.00	11	2.00	10.00	50.00	100.0	200.0	400.0		
alpha-BHC	2	0	Avg	1249.0	1227.8	1253.0	1260.1	1230.1	1216.4	----	----	1240	3.76	1.00	1.00	1.4	2.00	10.00	50.00	100.0	200.0	400.0		
gamma-BHC	2	0	Avg	1149.1	1115.5	1127.8	1139.0	1106.8	1094.9	----	----	1120	4.12	1.00	1.00	1.8	2.00	10.00	50.00	100.0	200.0	400.0		
beta-BHC	2	0	Avg	605.91	527.20	490.70	494.10	472.60	462.79	----	----	509	4.16	1.00	1.00	10	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor	2	0	Avg	1072.4	1020.0	1036.9	1048.2	1022.7	1010.4	----	----	1040	4.43	1.00	1.00	2.2	2.00	10.00	50.00	100.0	200.0	400.0		
delta-BHC	2	0	Avg	1095.1	1040.5	1085.6	1112.3	1091.0	1089.1	----	----	1090	4.52	1.00	1.00	2.2	2.00	10.00	50.00	100.0	200.0	400.0		

Avg Rsd Col 1: 5.56 Avg Rsd Col 2: 5.05

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

3062404 0634

Form 6

Initial Calibration

Method: EPA 8081B

Instrument: GC_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3G149291.D	CAL PEST@2PPB	07/03/23 16:01	2	3G149293.D	CAL PEST@10PPB	07/03/23 16:25
3	3G149294.D	CAL PEST@50PPB	07/03/23 16:36	4	3G149295.D	CAL PEST@100PPB	07/03/23 16:48
5	3G149296.D	CAL PEST@200PPB	07/03/23 17:00	6	3G149297.D	CAL PEST@400PPB	07/03/23 17:12
7	3G149298.D	CAL CHLORO@100P	07/03/23 17:23				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Aldrin	2	0	Avg	1057.6	1027.8	1040.2	1048.7	1034.5	1021.0	----	----	1040	4.75	1.00	1.00	1.3	2.00	10.00	50.00	100.0	200.0	400.0		
Heptachlor Epoxide	2	0	Avg	1002.4	936.69	929.96	936.08	916.60	904.03	----	----	938	5.29	1.00	1.00	3.6	2.00	10.00	50.00	100.0	200.0	400.0		
v-chlordane	2	0	Avg	968.65	910.10	916.50	926.52	913.24	904.93	----	----	923	5.45	1.00	1.00	2.5	2.00	10.00	50.00	100.0	200.0	400.0		
a-chlordane	2	0	Avg	978.15	910.78	891.73	896.60	883.23	876.31	----	----	906	5.61	1.00	1.00	4.1	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan I	2	0	Avg	928.43	857.09	854.73	857.89	850.81	840.88	----	----	865	5.65	1.00	1.00	3.7	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDE	2	0	Avg	871.31	844.90	894.77	908.83	904.93	902.93	----	----	888	5.83	1.00	1.00	2.8	2.00	10.00	50.00	100.0	200.0	400.0		
Dieldrin	2	0	Avg	939.72	911.42	947.71	967.42	959.02	955.06	----	----	947	5.96	1.00	1.00	2.1	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin	2	0	Avg	778.75	789.49	821.25	840.71	838.71	839.90	----	----	818	6.33	1.00	1.00	3.4	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDD	2	0	Avg	798.54	731.12	744.90	759.33	757.20	762.31	----	----	759	6.40	1.00	1.00	3.0	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan II	2	0	Avg	972.10	861.25	806.89	790.86	796.32	793.25	----	----	837	6.51	1.00	1.00	8.5	2.00	10.00	50.00	100.0	200.0	400.0		
p,p'-DDT	2	0	Avg	733.27	709.47	725.84	752.10	757.71	775.02	----	----	742	6.71	1.00	1.00	3.2	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Aldehyde	2	0	Avg	758.52	614.84	576.01	577.19	568.48	573.49	----	----	611	6.83	1.00	1.00	12	2.00	10.00	50.00	100.0	200.0	400.0		
Endosulfan Sulfate	2	0	Avg	724.89	679.42	663.03	674.04	661.69	664.51	----	----	678	6.96	1.00	1.00	3.5	2.00	10.00	50.00	100.0	200.0	400.0		
Methoxychlor	2	0	Avg	429.94	413.64	392.59	397.93	397.27	397.88	----	----	405	7.58	1.00	1.00	3.5	2.00	10.00	50.00	100.0	200.0	400.0		
Endrin Ketone	2	0	Avg	1047.4	899.61	874.19	886.18	875.30	876.31	----	----	910	7.76	1.00	1.00	7.5	2.00	10.00	50.00	100.0	200.0	400.0		
DCB-Surrogate	2	0	Avg	941.32	857.87	741.21	727.60	706.41	697.32	----	----	779	9.01	1.00	1.00	13	2.00	10.00	50.00	100.0	200.0	400.0		
Chlordane (Technical)	2	1	Avg	----	----	----	----	----	----	----	----	52.3	4.43	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	2	2	Avg	----	----	----	----	----	----	----	----	105	5.45	-1	-1	Lvl=7	100.0							
Chlordane (Technical)	2	3	Avg	----	----	----	----	----	----	----	----	75.2	5.61	-1	-1	Lvl=7	100.0							
Toxaphene	2	1	Avg	5.2528	5.6968	5.6031	5.2634	5.6119	5.7518	----	----	5.53	5.74	0.999	1.00	3.9	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	2	2	Avg	5.2695	5.5692	4.7317	4.4703	4.8828	4.4233	----	----	4.89	5.81	0.997	0.999	9.3	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	2	3	Avg	13.463	12.233	12.761	12.179	12.577	12.158	----	----	12.6	6.74	1.00	1.00	4.0	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	2	4	Avg	16.014	16.465	16.391	16.179	17.044	16.857	----	----	16.5	7.35	1.00	1.00	2.4	50.00	200.0	500.0	1000.	2000.	4000.		
Toxaphene	2	5	Avg	10.127	11.408	12.269	11.920	13.143	13.554	----	----	12.1	7.41	0.999	1.00	10	50.00	200.0	500.0	1000.	2000.	4000.		

Avg Rsd Col 1: 5.56 Avg Rsd Col 2: 5.05

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Data Path : G:\Gcdata\2023\GC_3\Data\0703-23\
Data File : 3G149291.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jul 2023 16:01
Operator : AH//PR/KM
Sample : CAL PEST@2PPB
Misc : S,PEST
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 17:38:57 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jul 03 16:20:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.141	3.173	25910489	22761822	2.597m	2.663m
2)alpha-BHC	3.899	3.758	33917645	24981038	2.321m	2.175m
3)gamma-BHC	4.254	4.116	30519951	22982504	2.390m	2.246m
4)beta-BHC	4.910	4.164	14024483	12118263	2.523	2.643
5)Heptachlor	4.449	4.431	29747619	21449473	2.396m	2.236
6)delta-BHC	5.162	4.519	26097523	21902065	2.163m	2.235
7)Aldrin	4.713	4.755	26954609	21153801	2.246	2.246m
8)Heptachlor Epoxid	5.343	5.292	26660074	20049142	2.447	2.369
9)y-chlordane	5.652	5.451	25564138	19373013	2.383	2.325
10)a-chlordane	5.703	5.609	25991962	19563097	2.467	2.414
11)Endosulfan I	5.615	5.650	23222743	18568630	2.354	2.392
12)p,p'-DDE	5.770	5.836	22562913	17426380	2.167	2.169m
13)Dieldrin	5.967	5.956	23985264	18794432	2.178	2.218m
14)Endrin	6.169	6.331	20694628	15575032	2.267m	2.282m
15)p,p'-DDD	6.543	6.397	17180945	15970968	2.023m	2.362m
16)Endosulfan II	6.636	6.507	22555428	19442037	2.453	2.731m
17)p,p'-DDT	6.709	6.706	16228176	14665483	2.267	2.400m
18)Endrin Aldehyde	7.048	6.836	14926810	15170459	2.384m	2.833m
19)Endosulfan Sulfat	7.356	6.958	20582887	14497819	2.476m	2.348
20)Methoxychlor	7.292f	7.584	9929325	8598985	2.568m	2.571
21)Endrin Ketone	7.767	7.765	23279120	20948834	2.453	2.742
22)DCB-Surrogate	8.530	9.012	26371188	18826458	2.810m	2.913m
23)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

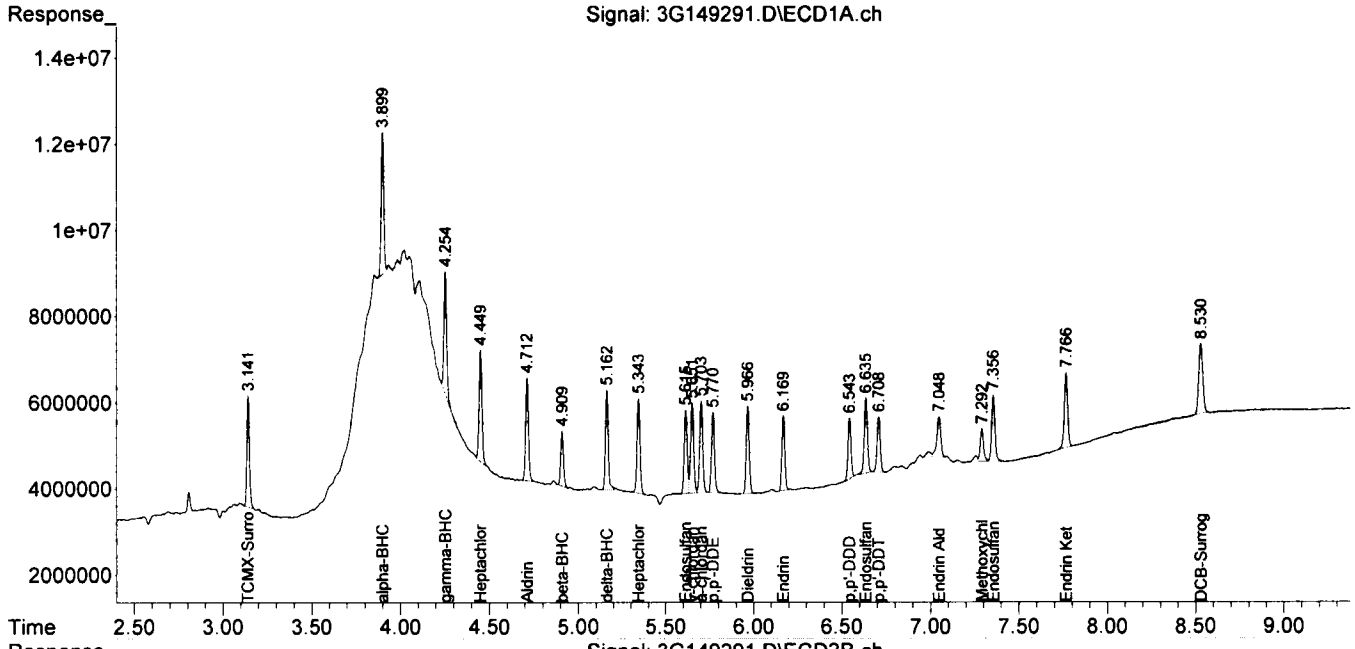
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

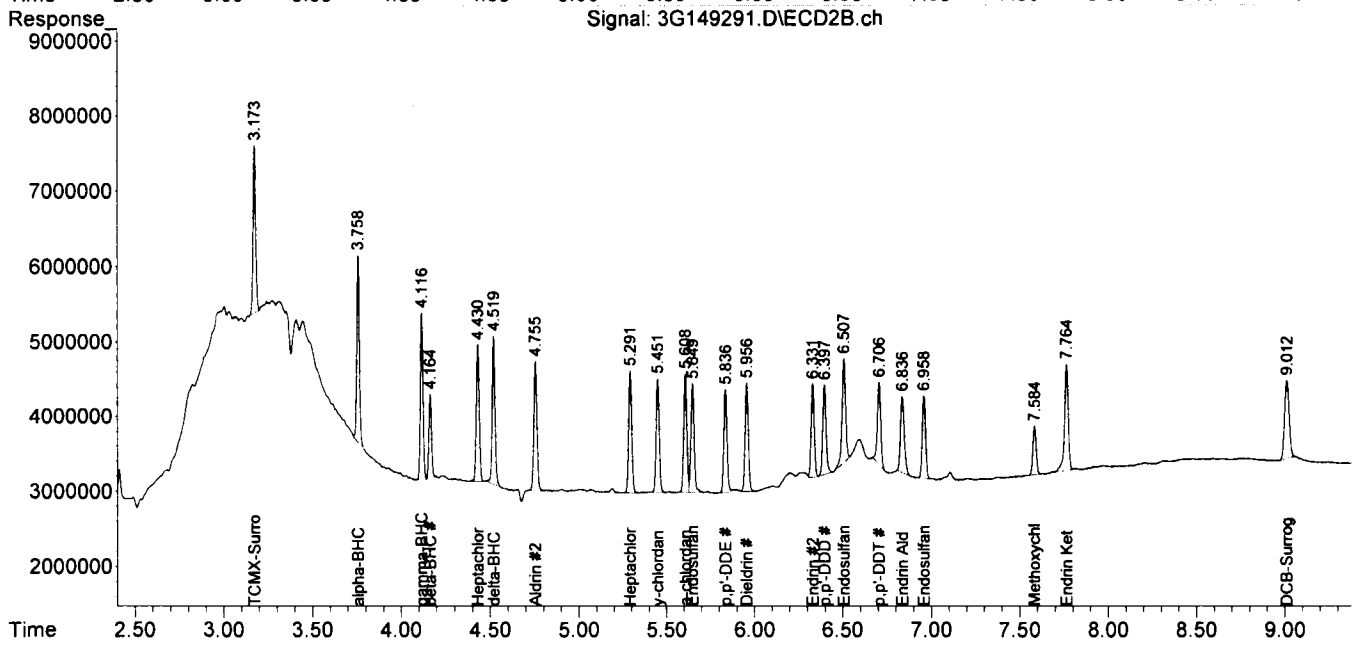
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0703-23\
Data File : 3G149291.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jul 2023 16:01
Operator : AH//PR/KM
Sample : CAL PEST@2PPB
Misc : S,PEST
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 17:38:57 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jul 03 16:20:43 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2023\GC_3\Data\0703-23\
Data File : 3G149293.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jul 2023 16:25
Operator : AH//PR/KM
Sample : CAL PEST@10PPB
Misc : S,PEST
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 16:42:53 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jul 03 16:29:00 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.136	3.168	114.3E6	96539350	11.460	11.296m
2)alpha-BHC	3.893	3.754	162.4E6	122.8E6	11.114m	10.689
3)gamma-BHC	4.248	4.112	141.7E6	111.6E6	11.100m	10.904
4)beta-BHC	4.903	4.159	63941484	52720968	11.504	11.499
5)Heptachlor	4.443	4.425	136.2E6	102.0E6	10.966	10.632
6)delta-BHC	5.156	4.515	128.4E6	104.1E6	10.646	10.619
7)Aldrin	4.706	4.750	133.1E6	102.8E6	11.087	10.914
8)Heptachlor Epoxid	5.336	5.287	123.7E6	93669564	11.350	11.070
9)y-chlordane	5.644	5.446	123.7E6	91010967	11.528	10.921
10)a-chlordane	5.696	5.603	123.3E6	91078980	11.705	11.238
11)Endosulfan I	5.607	5.645	112.0E6	85709922	11.356m	11.041
12)p,p'-DDE	5.762	5.830	113.8E6	84490214	10.927	10.518
13)Dieldrin	5.959	5.951	120.7E6	91142573	10.965	10.758
14)Endrin	6.161	6.326	106.3E6	78949345	11.641m	11.566m
15)p,p'-DDD	6.534	6.391	88505401	73112110	10.420m	10.811
16)Endosulfan II	6.628	6.502	103.3E6	86125940	11.237	12.098
17)p,p'-DDT	6.701	6.701	83492116	70947855	11.662	11.610
18)Endrin Aldehyde	7.040	6.829	60498231	61484045	9.663m	11.484m
19)Endosulfan Sulfat	7.348	6.952	92816366	67942049	11.167	11.004
20)Methoxychlor	7.283	7.577	49422829	41364112	12.784m	12.368m
21)Endrin Ketone	7.759	7.759	107.6E6	89961276	11.334	11.774m
22)DCB-Surrogate	8.523	9.006	118.3E6	85787842	12.603	13.273
23)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

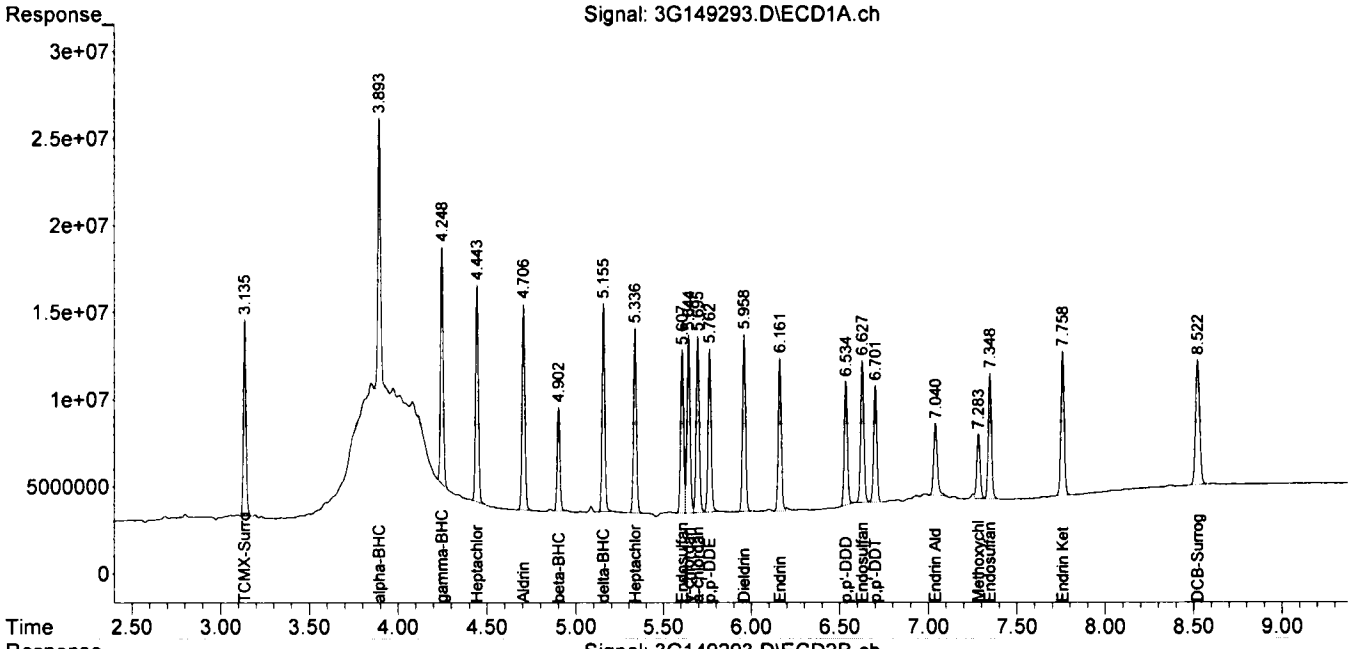
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

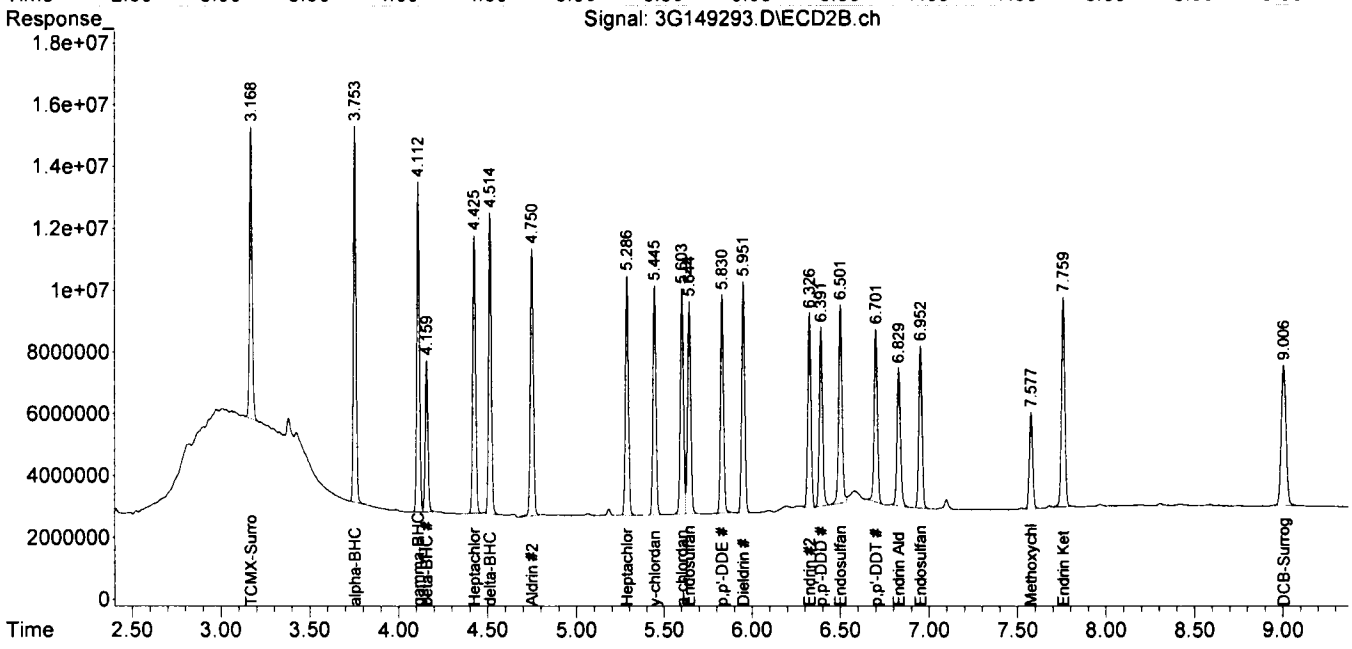
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0703-23\
Data File : 3G149293.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jul 2023 16:25
Operator : AH//PR/KM
Sample : CAL PEST@10PPB
Misc : S,PEST
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 16:42:53 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jul 03 16:29:00 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0703-23\
Data File : 3G149294.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jul 2023 16:36
Operator : AH//PR/KM
Sample : CAL PEST@50PPB
Misc : S,PEST
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 16:51:38 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jul 03 16:29:00 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.140	3.173	546.5E6	450.6E6	54.778m	52.722m
2)alpha-BHC	3.898	3.758	773.9E6	626.5E6	52.962m	54.542
3)gamma-BHC	4.252	4.116	697.3E6	563.9E6	54.600	55.122
4)beta-BHC	4.906	4.164	307.6E6	245.4E6	55.341m	53.511
5)Heptachlor	4.448	4.430	663.2E6	518.5E6	53.410	54.037
6)delta-BHC	5.160	4.519	667.2E6	542.8E6	55.309	55.395
7)Aldrin	4.711	4.755	671.1E6	520.1E6	55.905	55.234
8)Heptachlor Epoxid	5.340	5.292	602.0E6	465.0E6	55.243	54.951
9)y-chlordane	5.648	5.450	608.7E6	458.3E6	56.751	54.988
10)a-chlordane	5.701	5.608	596.5E6	445.9E6	56.618	55.016
11)Endosulfan I	5.612	5.650	544.7E6	427.4E6	55.213m	55.051
12)p,p'-DDE	5.767	5.835	590.6E6	447.4E6	56.730	55.697
13)Dieldrin	5.963	5.955	615.6E6	473.9E6	55.903	55.930
14)Endrin	6.166	6.330	529.5E6	410.6E6	58.005	60.158m
15)p,p'-DDD	6.540	6.396	477.5E6	372.5E6	56.217	55.073
16)Endosulfan II	6.632	6.506	517.0E6	403.4E6	56.228	56.673
17)p,p'-DDT	6.705	6.706	449.0E6	362.9E6	62.719	59.387
18)Endrin Aldehyde	7.044	6.834	322.0E6	288.0E6	51.436m	53.792
19)Endosulfan Sulfat	7.352	6.957	449.0E6	331.5E6	54.025	53.692
20)Methoxychlor	7.287	7.582	246.2E6	196.3E6	63.693m	58.692
21)Endrin Ketone	7.763	7.763	528.6E6	437.1E6	55.696	57.205
22)DCB-Surrogate	8.526	9.010	505.0E6	370.6E6	53.808	57.342
23)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

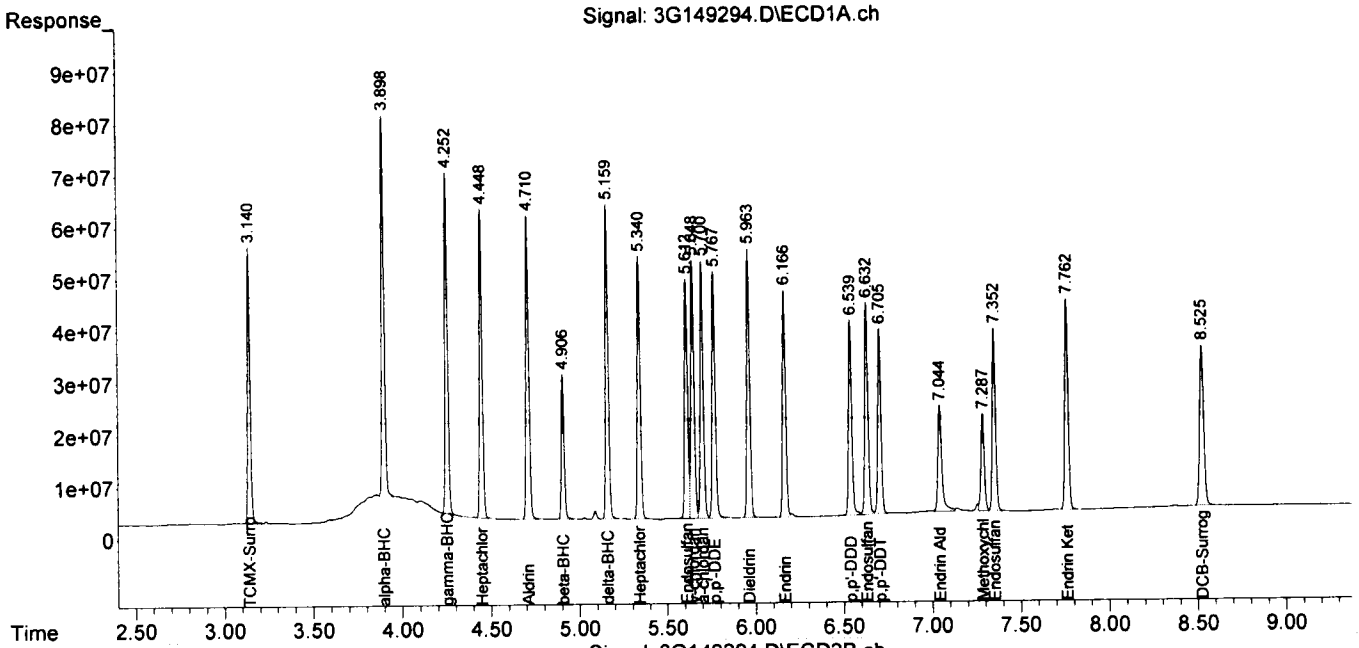
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

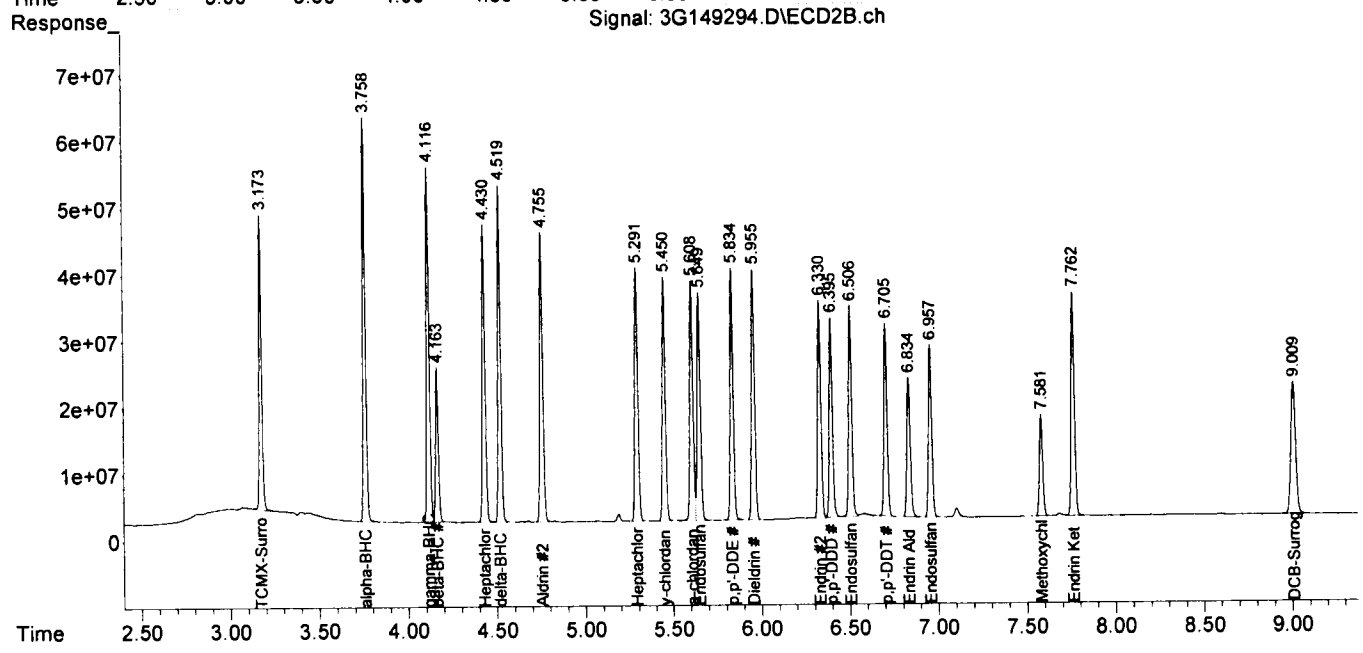
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0703-23\
Data File : 3G149294.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jul 2023 16:36
Operator : AH//PR/KM
Sample : CAL PEST@50PPB
Misc : S,PEST
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 16:51:38 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jul 03 16:29:00 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P
Signal #1 Info : .32
Signal #2 Phase: db-17
Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0703-23\
Data File : 3G149295.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jul 2023 16:48
Operator : AH//PR/KM
Sample : CAL PEST@100PPB
Misc : S,PEST
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 17:01:25 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jul 03 16:29:00 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.140	3.173	1074.4E6	892.7E6	107.698m	104.458m
2)alpha-BHC	3.897	3.759	1544.7E6	1260.2E6	105.714m	109.706
3)gamma-BHC	4.252	4.116	1404.2E6	1139.1E6	109.956	111.339
4)beta-BHC	4.907	4.164	613.5E6	494.1E6	110.368	107.765
5)Heptachlor	4.448	4.430	1320.5E6	1048.2E6	106.347	109.253
6)delta-BHC	5.160	4.519	1361.5E6	1112.3E6	112.867	113.515
7)Aldrin	4.710	4.755	1342.5E6	1048.8E6	111.839	111.367
8)Heptachlor Epoxid	5.340	5.291	1202.0E6	936.1E6	110.303	110.625
9)y-chlordane	5.648	5.450	1215.9E6	926.5E6	113.356	111.179
10)a-chlordane	5.700	5.608	1185.2E6	896.6E6	112.484	110.633
11)Endosulfan I	5.612	5.649	1091.9E6	857.9E6	110.671	110.510
12)p,p'-DDE	5.767	5.834	1188.5E6	908.8E6	114.163	113.144
13)Dieldrin	5.963	5.955	1251.2E6	967.4E6	113.624	114.186
14)Endrin	6.166	6.330	1071.0E6	840.7E6	117.324	123.167m
15)p,p'-DDD	6.539	6.396	966.6E6	759.3E6	113.802	112.279
16)Endosulfan II	6.632	6.506	1016.5E6	790.9E6	110.550	111.093
17)p,p'-DDT	6.705	6.706	934.5E6	752.1E6	130.529	123.070
18)Endrin Aldehyde	7.044	6.834	645.8E6	577.2E6	103.145m	107.804
19)Endosulfan Sulfat	7.352	6.956	906.1E6	674.0E6	109.014	109.168
20)Methoxychlor	7.287	7.581	503.3E6	397.9E6	130.188	118.980m
21)Endrin Ketone	7.762	7.763	1078.6E6	886.2E6	113.649	115.979
22)DCB-Surrogate	8.526	9.010	978.9E6	727.6E6	104.304	112.578
23)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

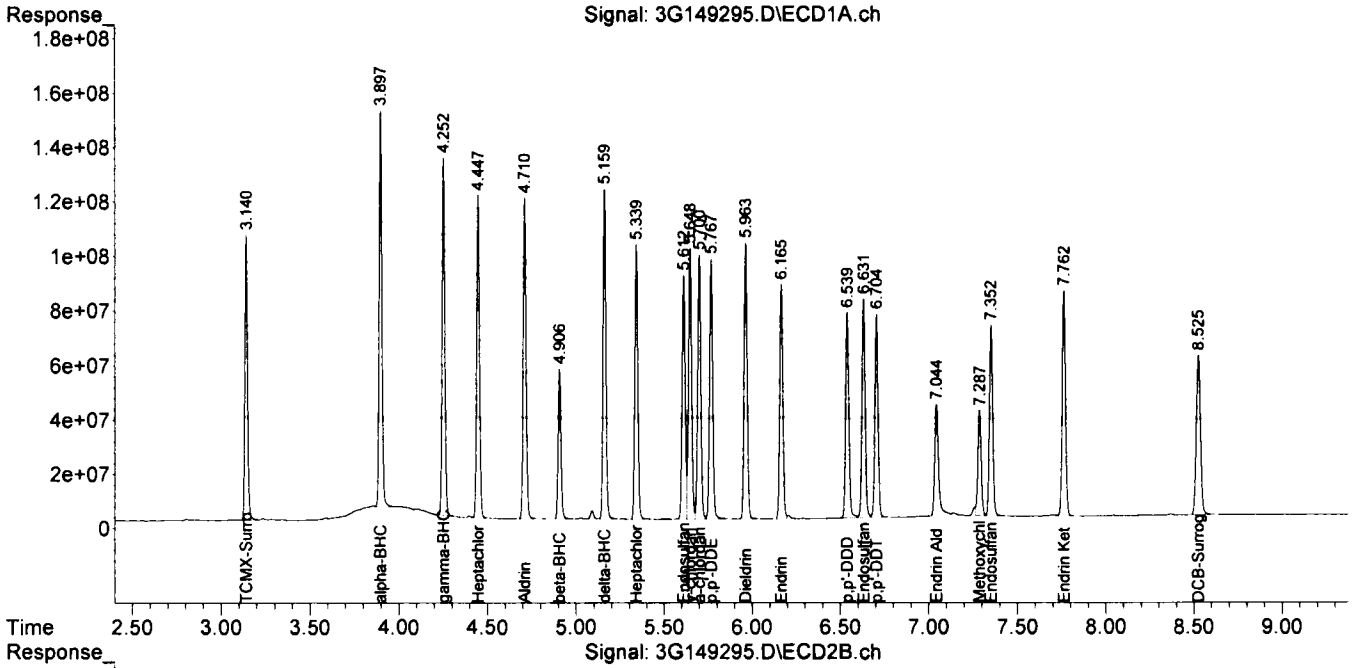
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

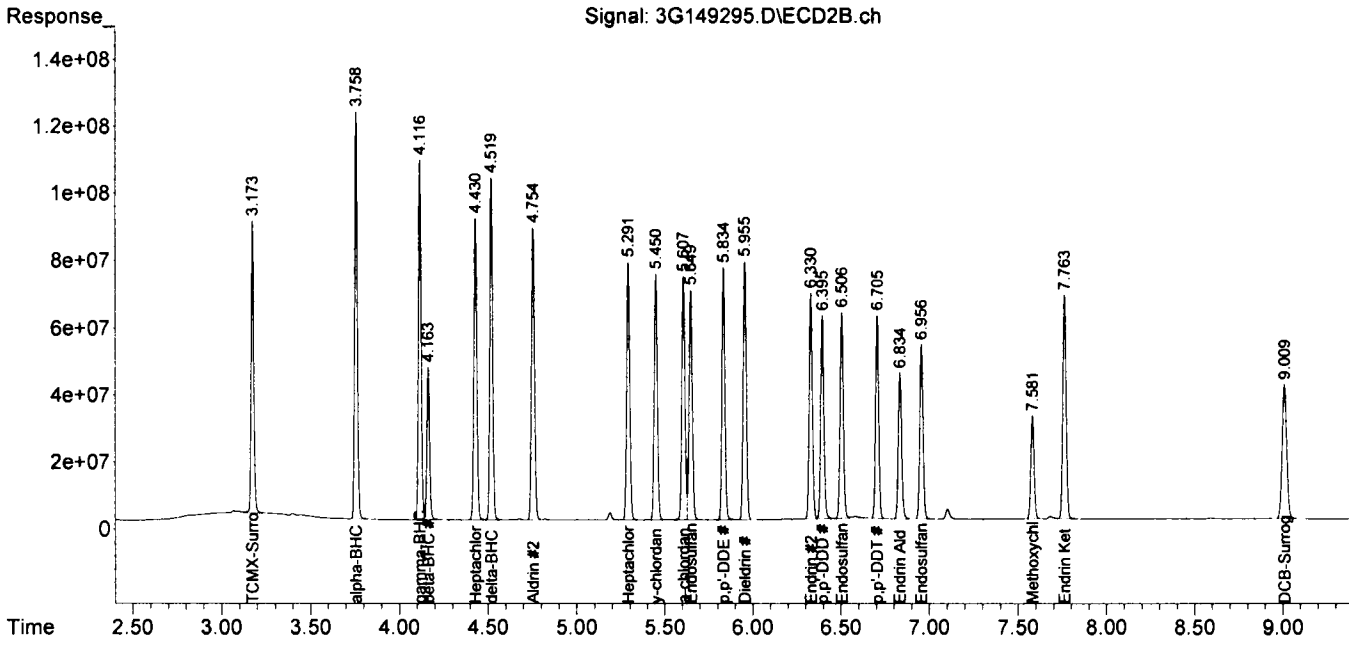
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0703-23\
Data File : 3G149295.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jul 2023 16:48
Operator : AH//PR/KM
Sample : CAL PEST@100PPB
Misc : S,PEST
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 17:01:25 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jul 03 16:29:00 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0703-23\
Data File : 3G149296.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jul 2023 17:00
Operator : AH//PR/KM
Sample : CAL PEST@200PPB
Misc : S,PEST
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 17:15:30 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jul 03 16:29:00 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.134	3.167	2064.0E6	1749.9E6	206.893	204.761m
2)alpha-BHC	3.892	3.753	2976.3E6	2460.4E6	203.693m	214.191
3)gamma-BHC	4.246	4.111	2738.2E6	2213.7E6	214.422	216.388
4)beta-BHC	4.901	4.158	1179.7E6	945.2E6	212.241	206.150
5)Heptachlor	4.442	4.425	2568.7E6	2045.5E6	206.867	213.191
6)delta-BHC	5.154	4.513	2660.9E6	2182.1E6	220.582	222.689
7)Aldrin	4.704	4.749	2615.0E6	2069.1E6	217.850	219.712
8)Heptachlor Epoxid	5.334	5.285	2341.5E6	1833.2E6	214.878	216.646
9)y-chlordane	5.643	5.444	2369.5E6	1826.5E6	220.898	219.171
10)a-chlordane	5.695	5.603	2310.3E6	1766.5E6	219.265	217.966
11)Endosulfan I	5.606	5.644	2116.6E6	1701.6E6	214.530	219.197
12)p,p'-DDE	5.761	5.829	2342.4E6	1809.9E6	224.998	225.316
13)Dieldrin	5.958	5.950	2444.4E6	1918.1E6	221.978	226.388
14)Endrin	6.160	6.325	2112.5E6	1677.4E6	231.424	245.748
15)p,p'-DDD	6.533	6.390	1904.4E6	1514.4E6	224.200	223.928
16)Endosulfan II	6.626	6.500	2027.8E6	1592.6E6	220.529	223.720
17)p,p'-DDT	6.699	6.700	1885.5E6	1515.4E6	263.365	247.977
18)Endrin Aldehyde	7.038	6.828	1290.8E6	1137.0E6	206.160	212.357
19)Endosulfan Sulfat	7.345	6.951	1783.2E6	1323.4E6	214.539	214.336
20)Methoxychlor	7.280	7.576	1020.5E6	794.6E6	263.953m	237.569
21)Endrin Ketone	7.756	7.758	2118.1E6	1750.6E6	223.190	229.112
22)DCB-Surrogate	8.519	9.004	1863.1E6	1412.8E6	198.517	218.600
23)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

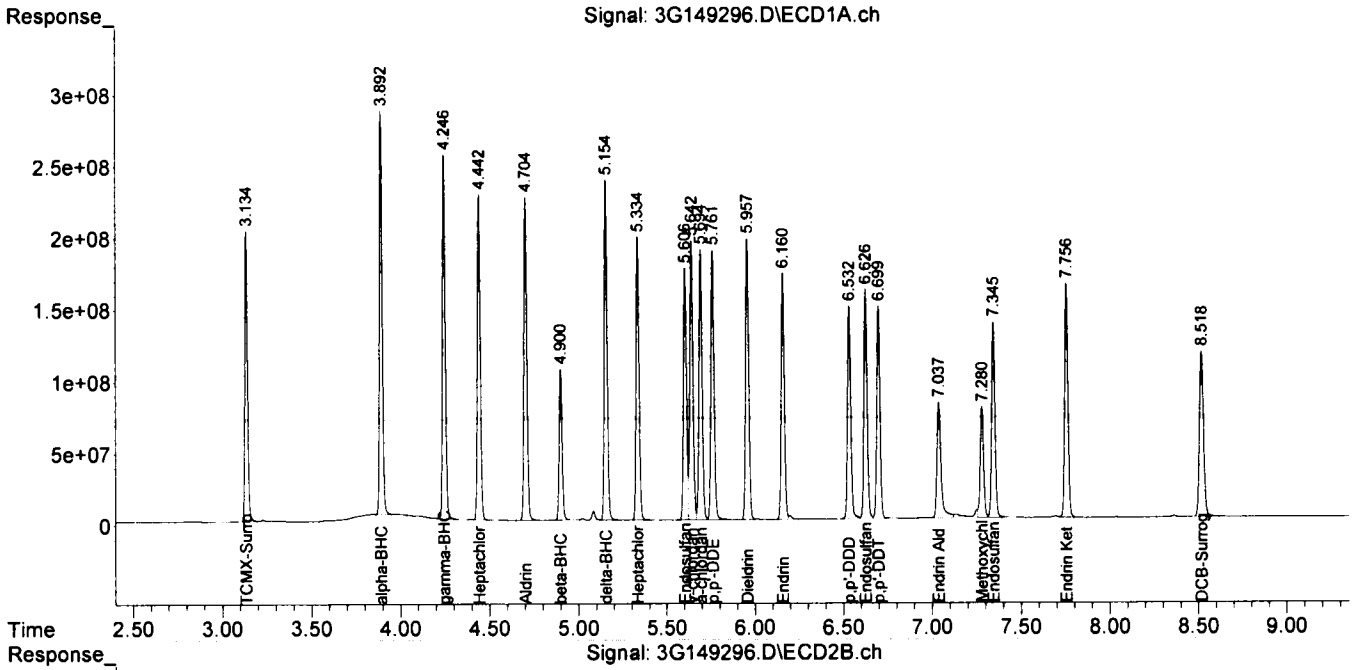
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

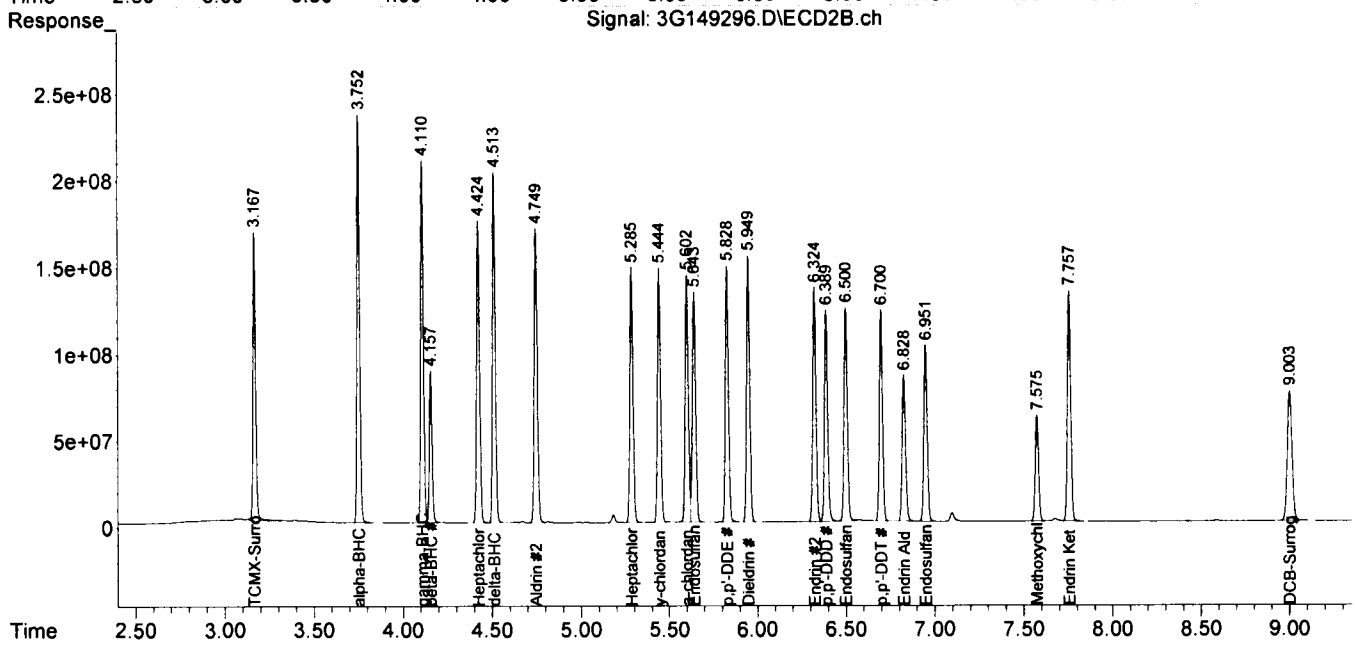
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0703-23\
Data File : 3G149296.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jul 2023 17:00
Operator : AH//PR/KM
Sample : CAL PEST@200PPB
Misc : S,PEST
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 17:15:30 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jul 03 16:29:00 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2023\GC_3\Data\0703-23\
Data File : 3G149297.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jul 2023 17:12
Operator : AH//PR/KM
Sample : CAL PEST@400PPB
Misc : S,PEST
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 17:23:13 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jul 03 16:29:00 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.141	3.174	4041.1E6	3447.8E6	405.066	403.433
2)alpha-BHC	3.898	3.759	5907.9E6	4865.8E6	404.324m	423.602
3)gamma-BHC	4.253	4.117	5499.5E6	4379.8E6	430.644	428.119
4)beta-BHC	4.907	4.164	2290.4E6	1851.2E6	412.063	403.747
5)Heptachlor	4.448	4.431	5056.8E6	4041.9E6	407.244	421.268
6)delta-BHC	5.160	4.520	5289.8E6	4356.7E6	438.516	444.612
7)Aldrin	4.711	4.756	5146.7E6	4084.0E6	428.757	433.675
8)Heptachlor Epoxid	5.341	5.291	4586.7E6	3616.1E6	420.914	427.347
9)y-chlordane	5.649	5.451	4665.0E6	3619.7E6	434.900	434.354
10)a-chlordane	5.701	5.609	4536.8E6	3505.3E6	430.582	432.517
11)Endosulfan I	5.612	5.650	4161.7E6	3363.6E6	421.810	433.278
12)p,p'-DDE	5.767	5.835	4650.8E6	3611.7E6	446.722	449.639
13)Dieldrin	5.964	5.956	4833.9E6	3820.3E6	438.976	450.908
14)Endrin	6.166	6.331	4190.0E6	3359.6E6	459.008	492.195
15)p,p'-DDD	6.540	6.396	3786.5E6	3049.2E6	445.787	450.875
16)Endosulfan II	6.632	6.506	3998.6E6	3173.0E6	434.850	445.717
17)p,p'-DDT	6.705	6.706	3805.2E6	3100.1E6	531.520	507.285
18)Endrin Aldehyde	7.044	6.834	2558.8E6	2294.0E6	408.683	428.453
19)Endosulfan Sulfat	7.352	6.956	3515.4E6	2658.1E6	422.940	430.498
20)Methoxychlor	7.286	7.582	2032.5E6	1591.5E6	525.725m	475.857
21)Endrin Ketone	7.762	7.764	4231.3E6	3505.3E6	445.852	458.752
22)DCB-Surrogate	8.526	9.010	3622.2E6	2789.3E6	385.946	431.573
23)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
24)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
25)Chlordane (Techni	0.000	0.000	0	0	N.D. d	N.D. d
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

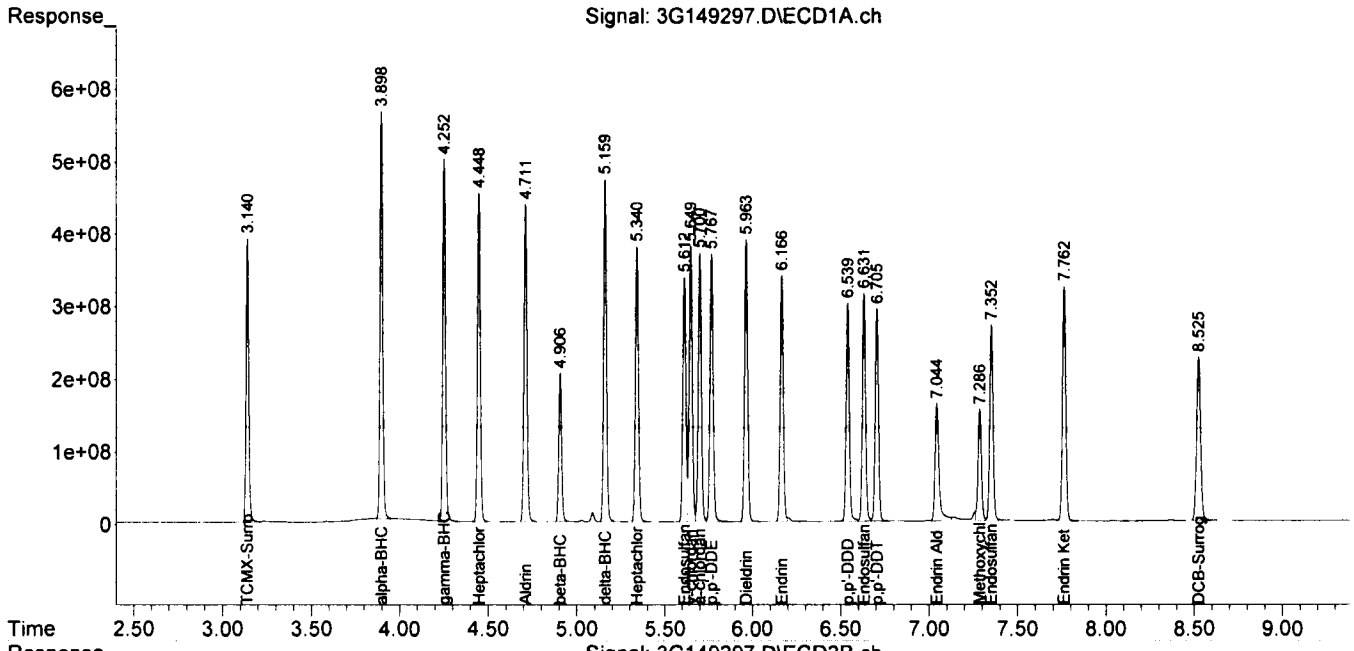
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

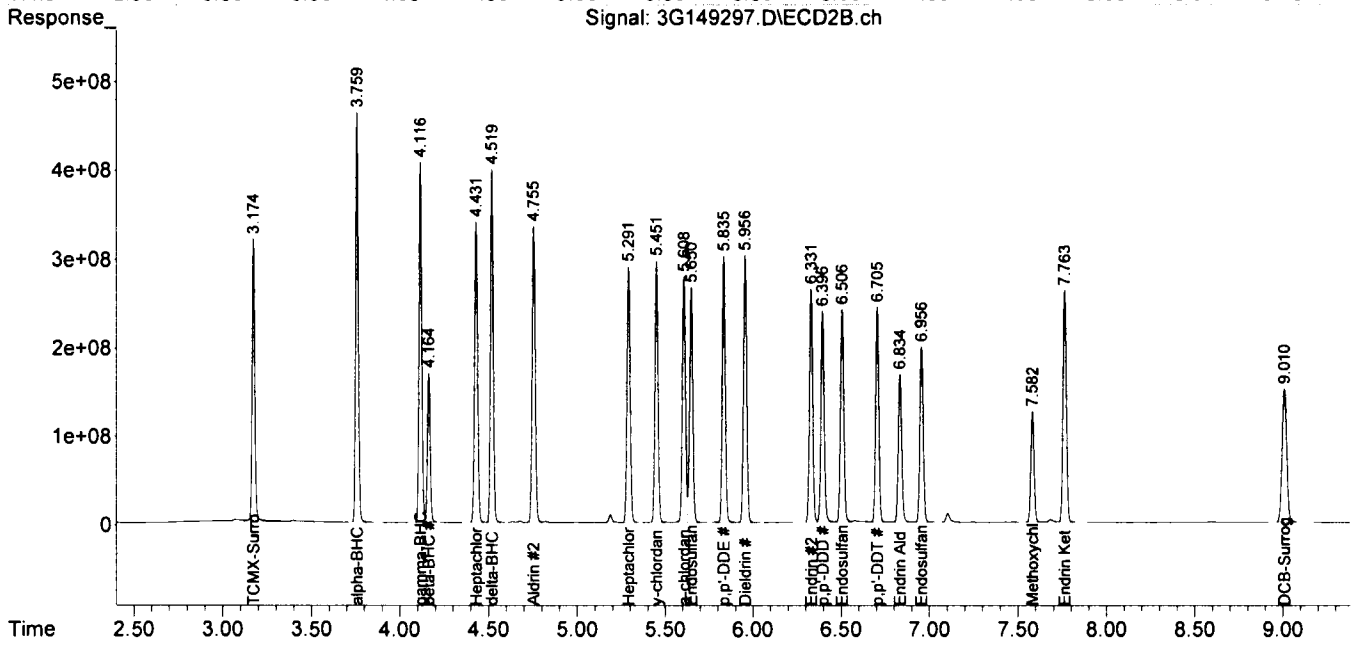
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0703-23\
Data File : 3G149297.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jul 2023 17:12
Operator : AH//PR/KM
Sample : CAL PEST@400PPB
Misc : S,PEST
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 17:23:13 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jul 03 16:29:00 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0703-23\
Data File : 3G149298.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jul 2023 17:23
Operator : AH//PR/KM
Sample : CAL CHLORO@100PPB
Misc : S,PEST
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 17:42:48 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jul 03 16:29:00 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

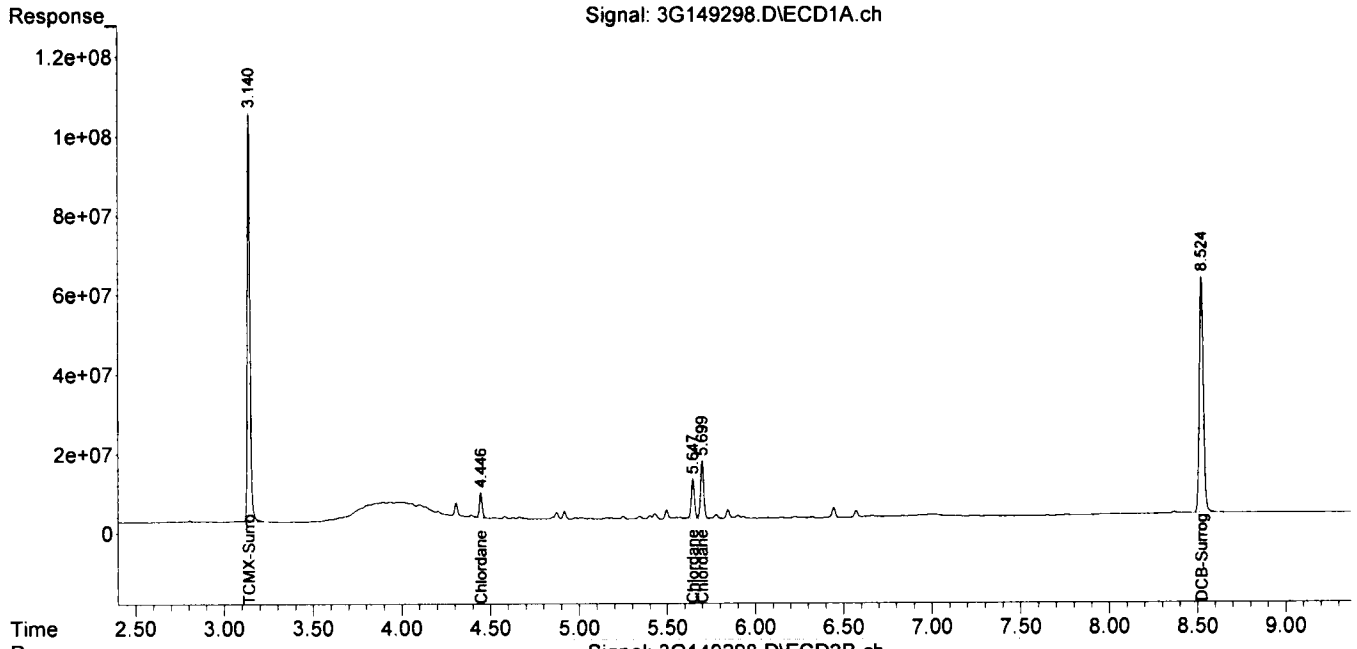
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.140	3.173	1067.6E6	862.1E6	107.014m	100.870m
2)alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
3)gamma-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
6)delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
8)Heptachlor Epoxid	0.000	0.000	0	0	N.D. d	N.D. d
9)y-chlordane	0.000	0.000	0	0	N.D. d	N.D. d
10)a-chlordane	0.000	0.000	0	0	N.D. d	N.D. d
11)Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
12)p,p'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
13)Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
14)Endrin	0.000	0.000	0	0	N.D. d	N.D. d
15)p,p'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
16)Endosulfan II	0.000	0.000	0	0	N.D. d	N.D. d
17)p,p'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
18)Endrin Aldehyde	0.000	0.000	0	0	N.D. d	N.D. d
19)Endosulfan Sulfat	0.000	0.000	0	0	N.D. d	N.D. d
20)Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
21)Endrin Ketone	0.000	0.000	0	0	N.D. d	N.D. d
22)DCB-Surrogate	8.524	9.009	959.2E6	713.5E6	102.204	110.392
23)Chlordane (Techni	4.446	4.430	68554587	52305974	108.925	106.000
24)Chlordane (Techni	5.647	5.449	123.3E6	104.7E6	110.711m	102.265m
25)Chlordane (Techni	5.699	5.606	181.4E6	75177377	114.302m	105.850m
26)Toxaphene {1}	0.000	0.000	0	0	N.D. d	N.D. d
27)Toxaphene {2}	0.000	0.000	0	0	N.D. d	N.D. d
28)Toxaphene {3}	0.000	0.000	0	0	N.D. d	N.D. d
29)Toxaphene {4}	0.000	0.000	0	0	N.D. d	N.D. d
30)Toxaphene {5}	0.000	0.000	0	0	N.D. d	N.D. d

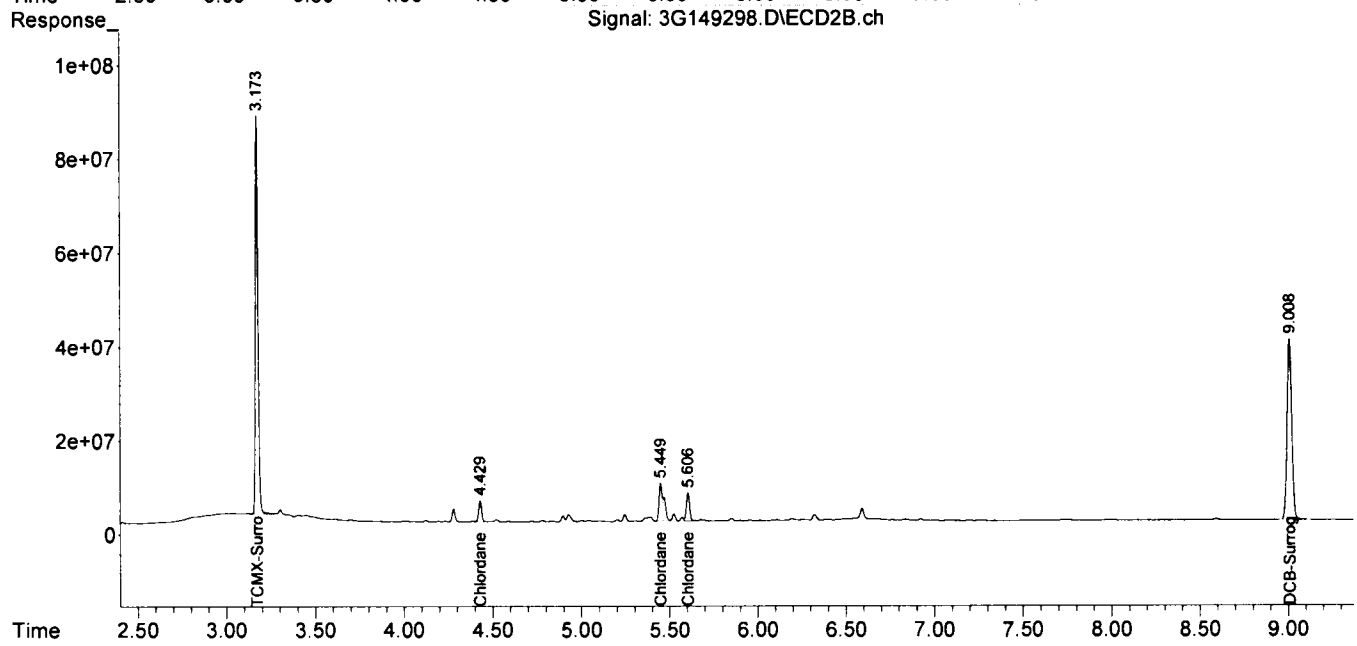
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2023\GC_3\Data\0703-23\
Data File : 3G149298.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jul 2023 17:23
Operator : AH//PR/KM
Sample : CAL CHLORO@100PPB
Misc : S,PEST
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 17:42:48 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jul 03 16:29:00 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_3\DATA\0703-23\
Data File : 3G149299.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jul 2023 17:35
Operator : AH//PR/KM
Sample : TOX@50PPB
Misc : S,PEST
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 04 16:56:50 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Tue Jul 04 10:15:42 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

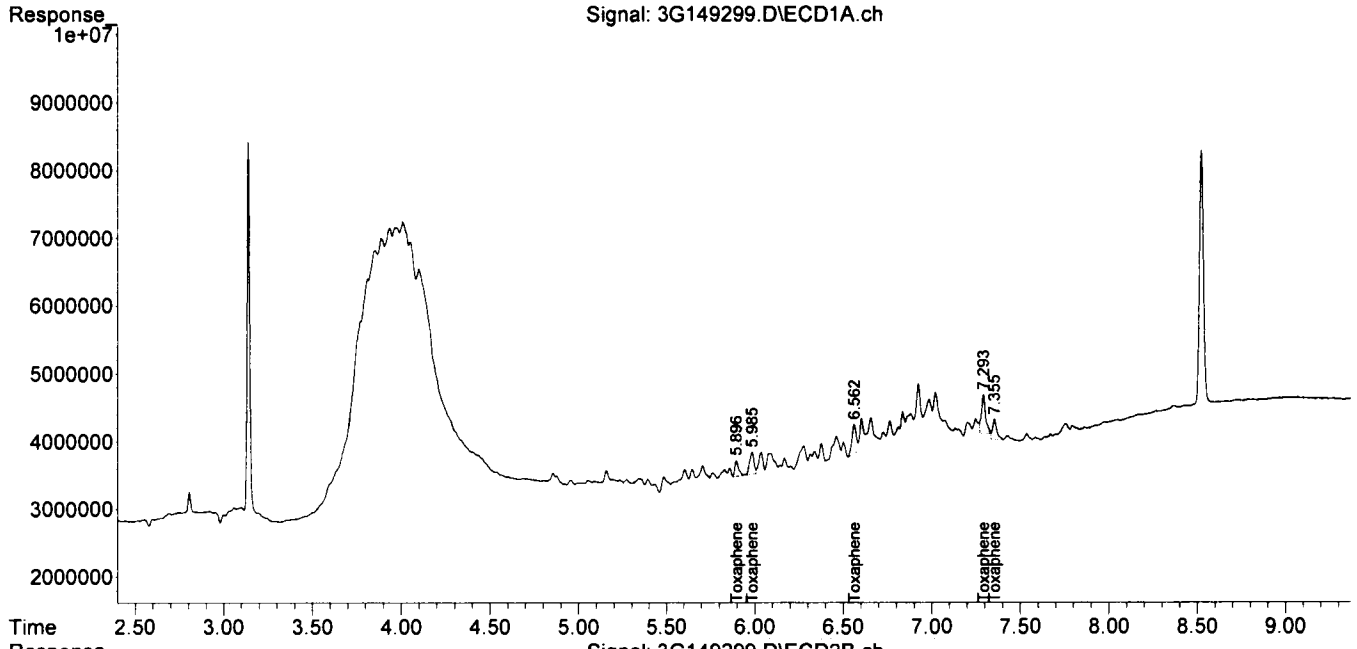
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
26)Toxaphene {1}	5.896	5.739	3496153	2539584	34.765	38.760m
27)Toxaphene {2}	5.985	5.814	5675609	2531917	39.400	22.733 #
28)Toxaphene {3}	6.562	6.740	7416173	6522495	59.937m	110.379m#
29)Toxaphene {4}	7.293	7.357	9460016	7223284	74.659m	53.411 #
30)Toxaphene {5}	7.355	7.417	5046131	4967964	28.776m	53.106 #

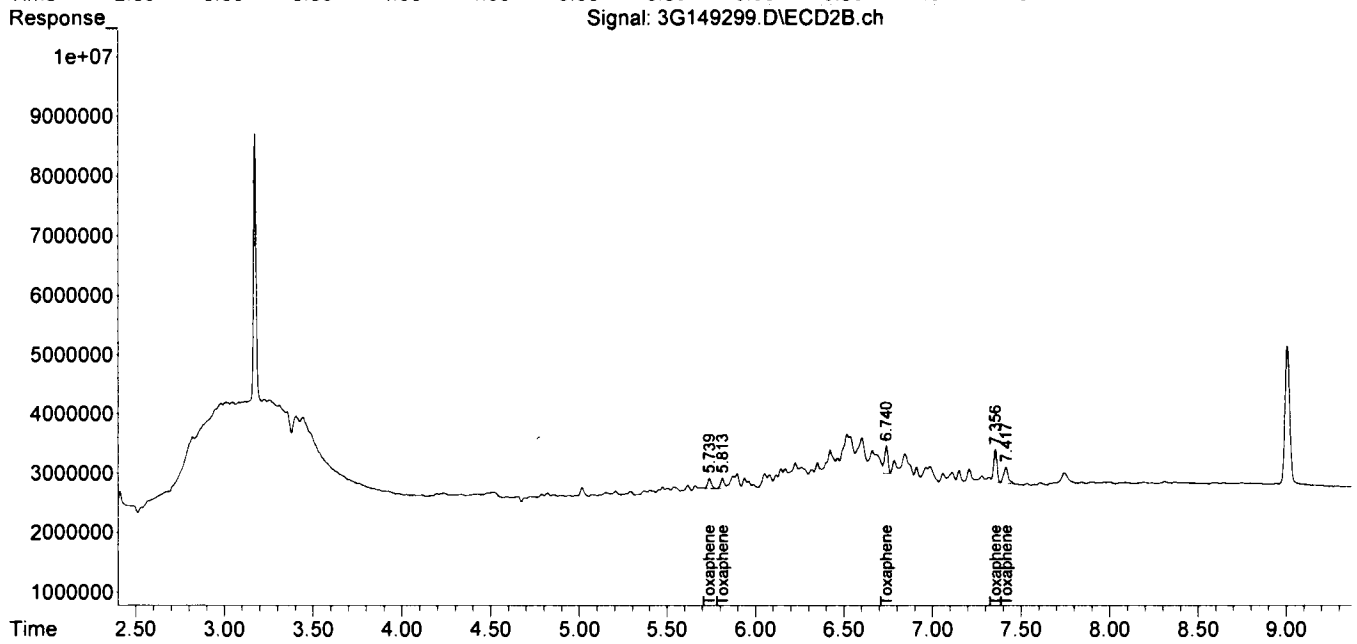
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\GCDATA\2023\GC_3\DATA\0703-23\
Data File : 3G149299.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jul 2023 17:35
Operator : AH//PR/KM
Sample : TOX@50PPB
Misc : S,PEST
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 04 16:56:50 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Tue Jul 04 10:15:42 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\GCDATA\2023\GC_3\DATA\0703-23\
Data File : 3G149300.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jul 2023 17:47
Operator : AH//PR/KM
Sample : TOX@50PPB
Misc : S,PEST
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 04 17:08:39 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Tue Jul 04 10:15:42 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

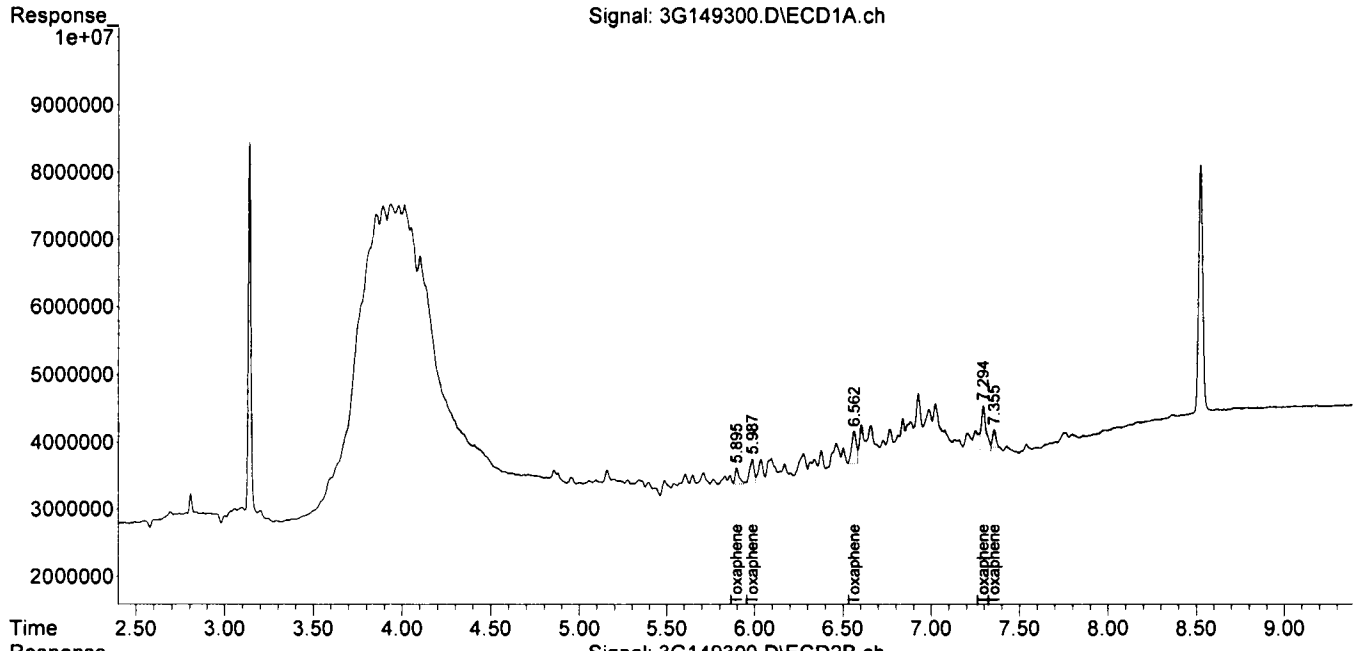
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
26)Toxaphene {1}	5.895	5.738	3950441	2626433	39.283m	40.086m
27)Toxaphene {2}	5.987	5.812	6037424	2634748	41.912m	23.656m#
28)Toxaphene {3}	6.562	6.740	9077773	6731815	73.366m	113.921m#
29)Toxaphene {4}	7.294	7.356	12783596	8007141	100.888m	59.207m#
30)Toxaphene {5}	7.355	7.416	3562007	5063978	20.313m	54.132m#

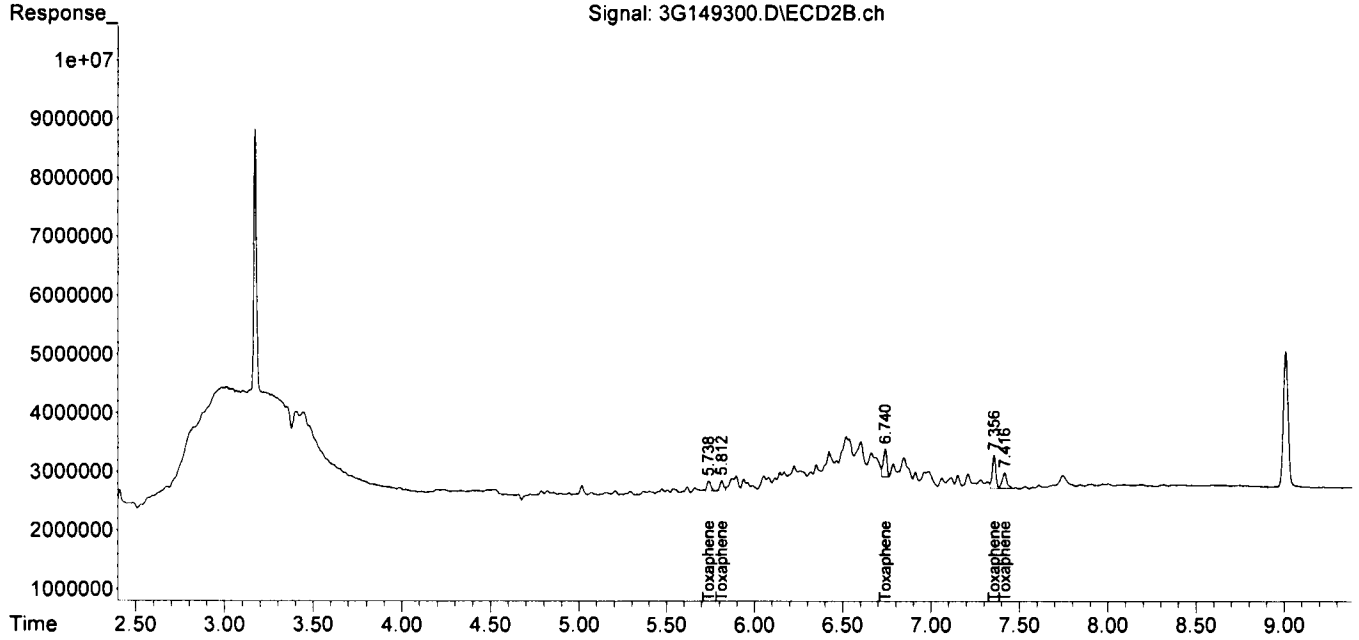
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\GCDATA\2023\GC_3\DATA\0703-23\
Data File : 3G149300.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jul 2023 17:47
Operator : AH//PR/KM
Sample : TOX@50PPB
Misc : S,PEST
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 04 17:08:39 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Tue Jul 04 10:15:42 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\GCDATA\2023\GC_3\DATA\0703-23\
Data File : 3G149301.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jul 2023 17:59
Operator : AH//PR/KM
Sample : TOX@200PPB
Misc : S,PEST
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 04 17:06:46 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Tue Jul 04 10:15:42 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
	Target Compounds						
26)	Toxaphene {1}	5.895	5.739	12628498	11393738	125.576m	173.897m#
27)	Toxaphene {2}	5.985	5.812	22528169	11138409	156.390m	100.006m#
28)	Toxaphene {3}	6.559	6.739	30775865	24466493	248.730m	414.043m#
29)	Toxaphene {4}	7.293	7.356	57563373	32931506	454.291m	243.505m#
30)	Toxaphene {5}	7.355	7.416	19449978	22816094	110.914m	243.897m#

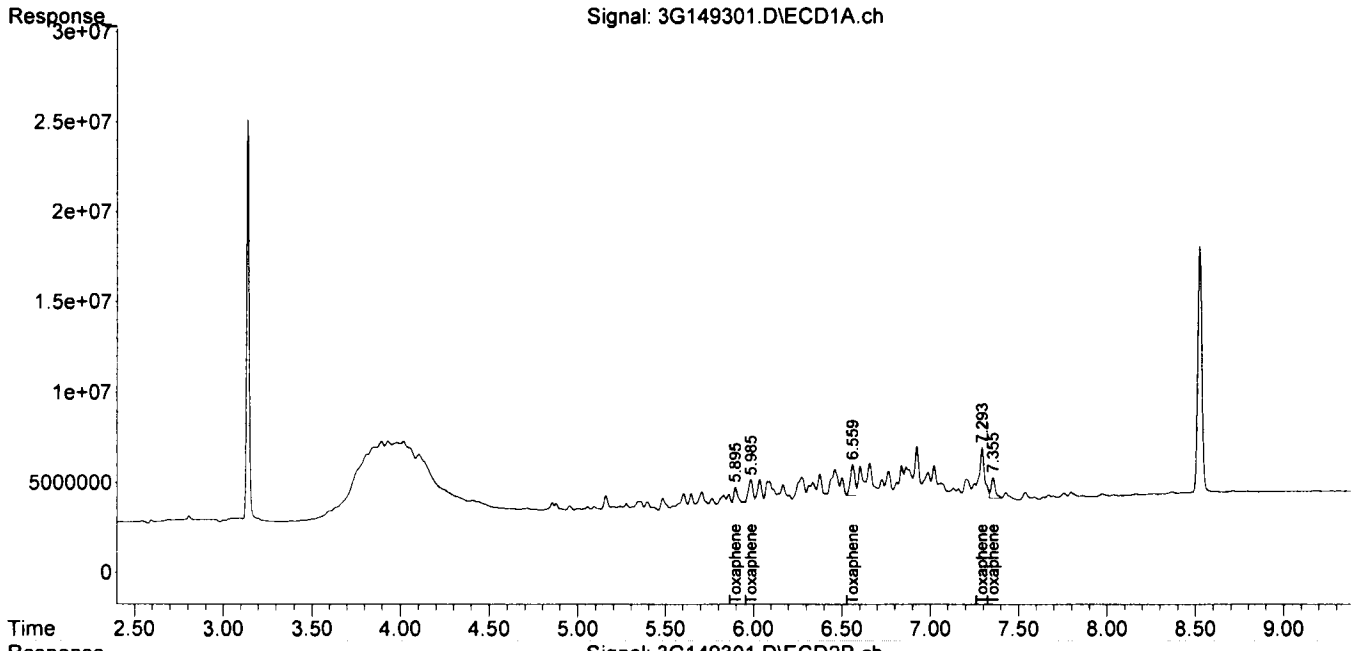
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

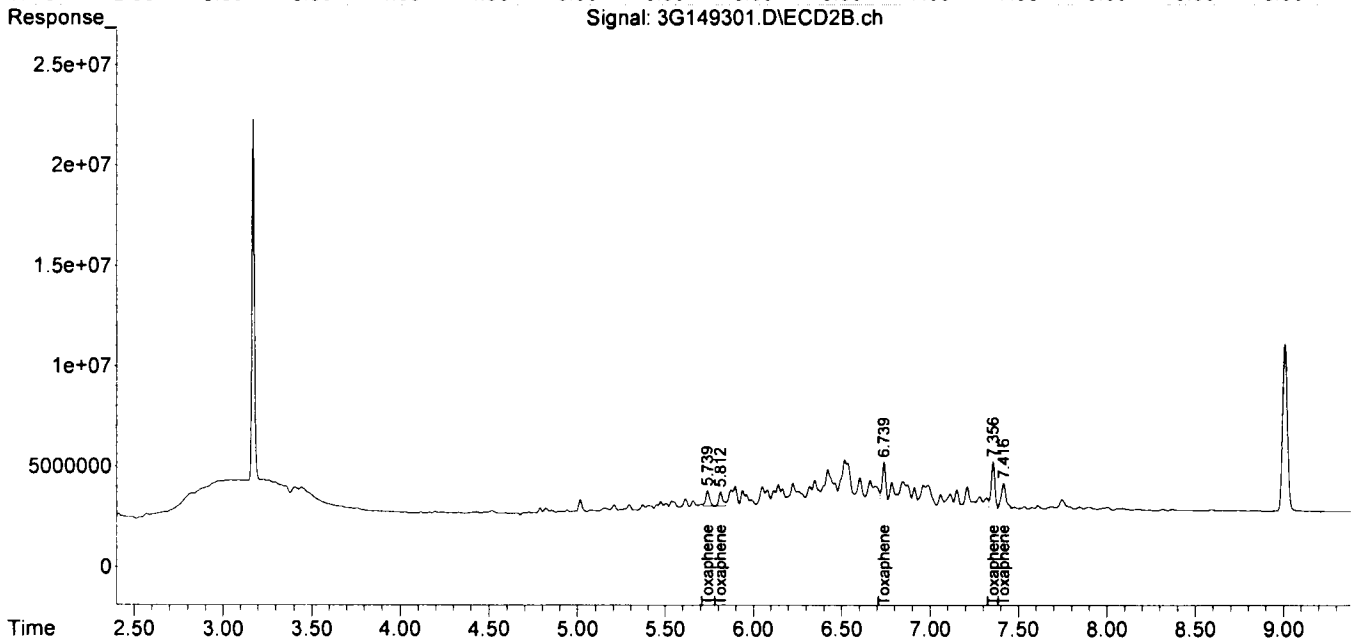
Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_3\DATA\0703-23\
Data File : 3G149301.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jul 2023 17:59
Operator : AH//PR/KM
Sample : TOX@200PPB
Misc : S,PEST
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 04 17:06:46 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Tue Jul 04 10:15:42 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_3\DATA\0703-23\
Data File : 3G149302.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jul 2023 18:10
Operator : AH//PR/KM
Sample : TOX@500PPB
Misc : S,PEST
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 04 17:15:00 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Tue Jul 04 10:15:42 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
	Target Compounds						
26)	Toxaphene {1}	5.895	5.740	32718040	28015550	325.344m	427.586m#
27)	Toxaphene {2}	5.984	5.813	56381396	23658598	391.398m	212.418m#
28)	Toxaphene {3}	6.559	6.740	76073027	63808521	614.820m	1079.821m#
29)	Toxaphene {4}	7.292	7.356	146.9E6	81955280	1159.422m	606.002m#
30)	Toxaphene {5}	7.355	7.417	48017350	61345103	273.821m	655.761m#

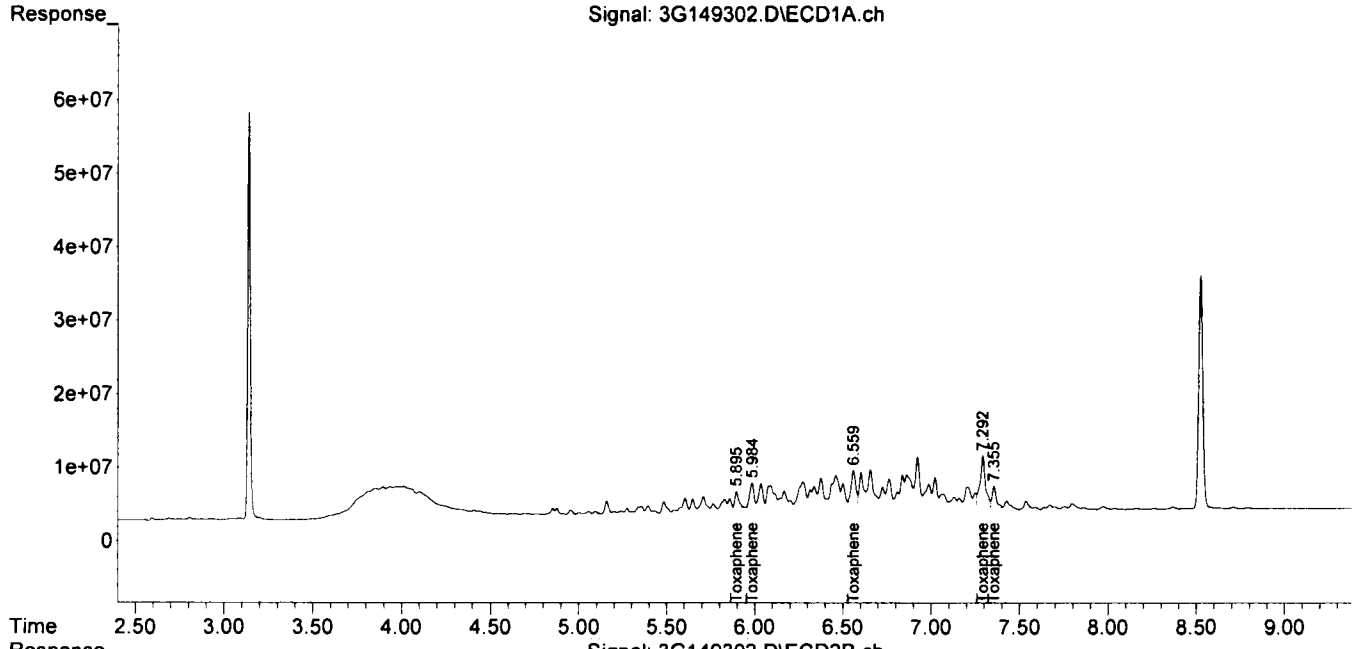
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

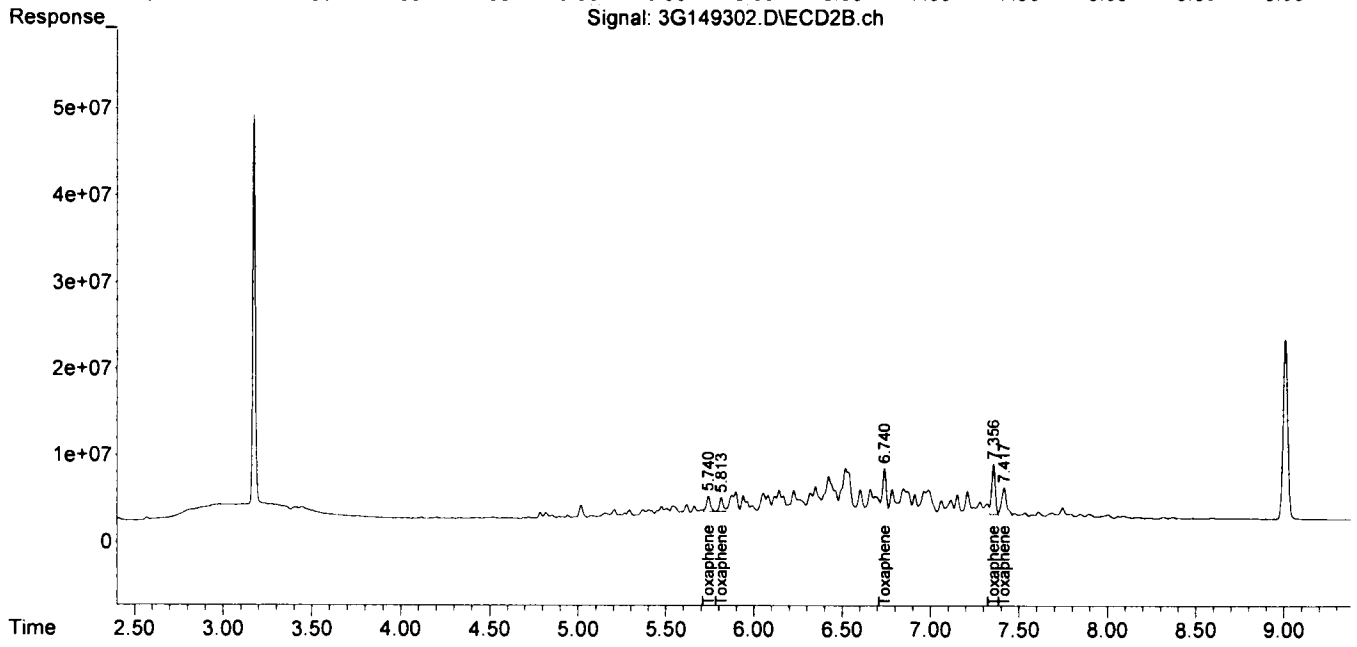
Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_3\DATA\0703-23\
Data File : 3G149302.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jul 2023 18:10
Operator : AH//PR/KM
Sample : TOX@500PPB
Misc : S,PEST
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 04 17:15:00 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Tue Jul 04 10:15:42 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_3\DATA\0703-23\
Data File : 3G149303.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jul 2023 18:22
Operator : AH//PR/KM
Sample : TOX@1000PPB
Misc : S,PEST
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 04 17:20:06 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Tue Jul 04 10:15:42 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
26)Toxaphene {1}	5.896	5.740	61745930	52634054	613.994m	803.325m#
27)Toxaphene {2}	5.985	5.813	109.8E6	44703061	761.980m	401.364m#
28)Toxaphene {3}	6.561	6.741	147.9E6	121.8E6	1195.026m	2061.133m#
29)Toxaphene {4}	7.293	7.357	297.7E6	161.8E6	2349.121m	1196.341m#
30)Toxaphene {5}	7.357	7.418	94113144	119.2E6	536.685m	1274.236m#

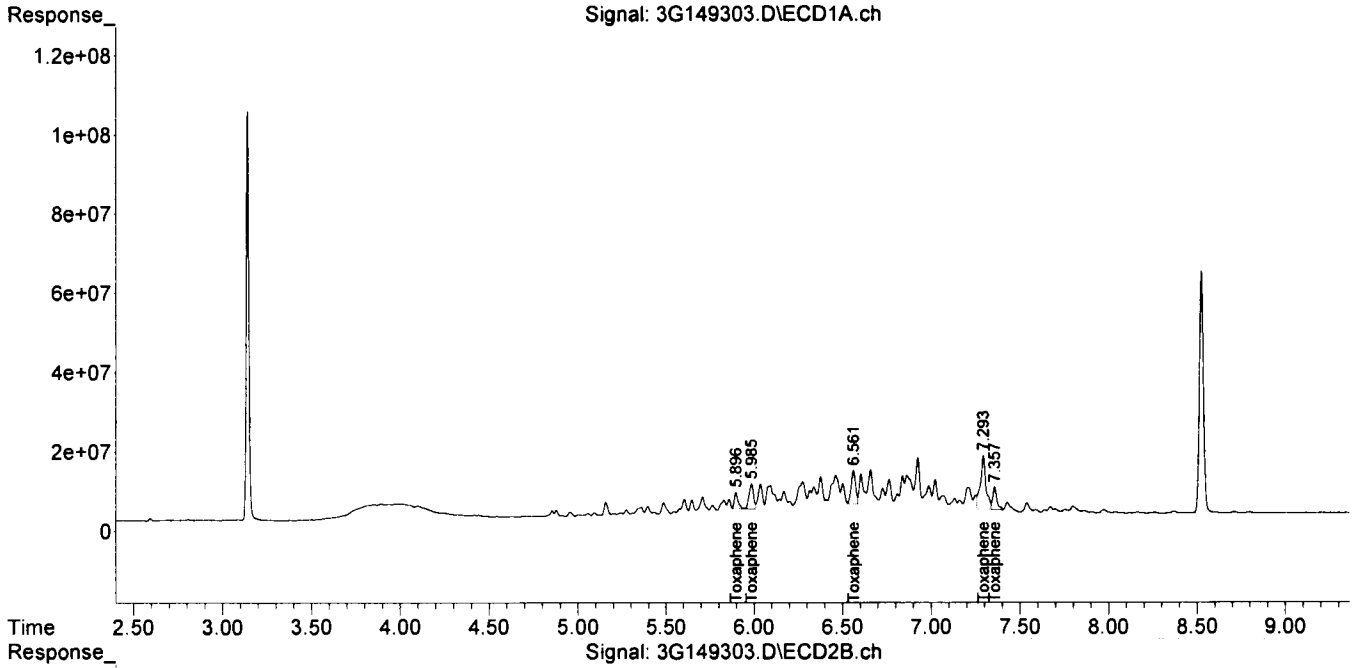
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

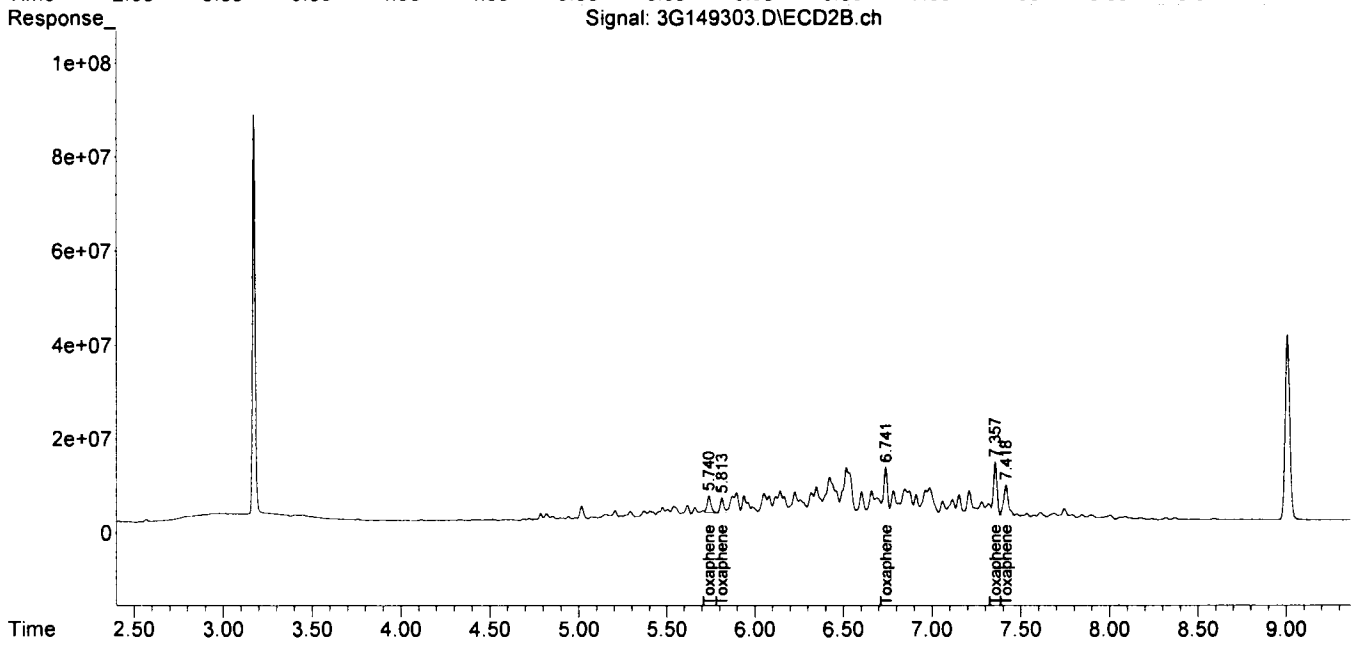
Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_3\DATA\0703-23\
Data File : 3G149303.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jul 2023 18:22
Operator : AH//PR/KM
Sample : TOX@1000PPB
Misc : S,PEST
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 04 17:20:06 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Tue Jul 04 10:15:42 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_3\DATA\0703-23\
Data File : 3G149304.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jul 2023 18:34
Operator : AH//PR/KM
Sample : TOX@2000PPB
Misc : S,PEST
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 04 17:24:28 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Tue Jul 04 10:15:42 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
	Target Compounds						
26)	Toxaphene {1}	5.894	5.740	135.2E6	112.2E6	1344.004m	1713.042m#
27)	Toxaphene {2}	5.985	5.813	233.1E6	97657015	1617.909m	876.809m#
28)	Toxaphene {3}	6.560	6.741	316.5E6	251.6E6	2558.009m	4256.983m#
29)	Toxaphene {4}	7.292	7.356	656.6E6	340.9E6	5181.520m	2520.621m#
30)	Toxaphene {5}	7.355	7.417	209.0E6	262.9E6	1191.640m	2810.012m#

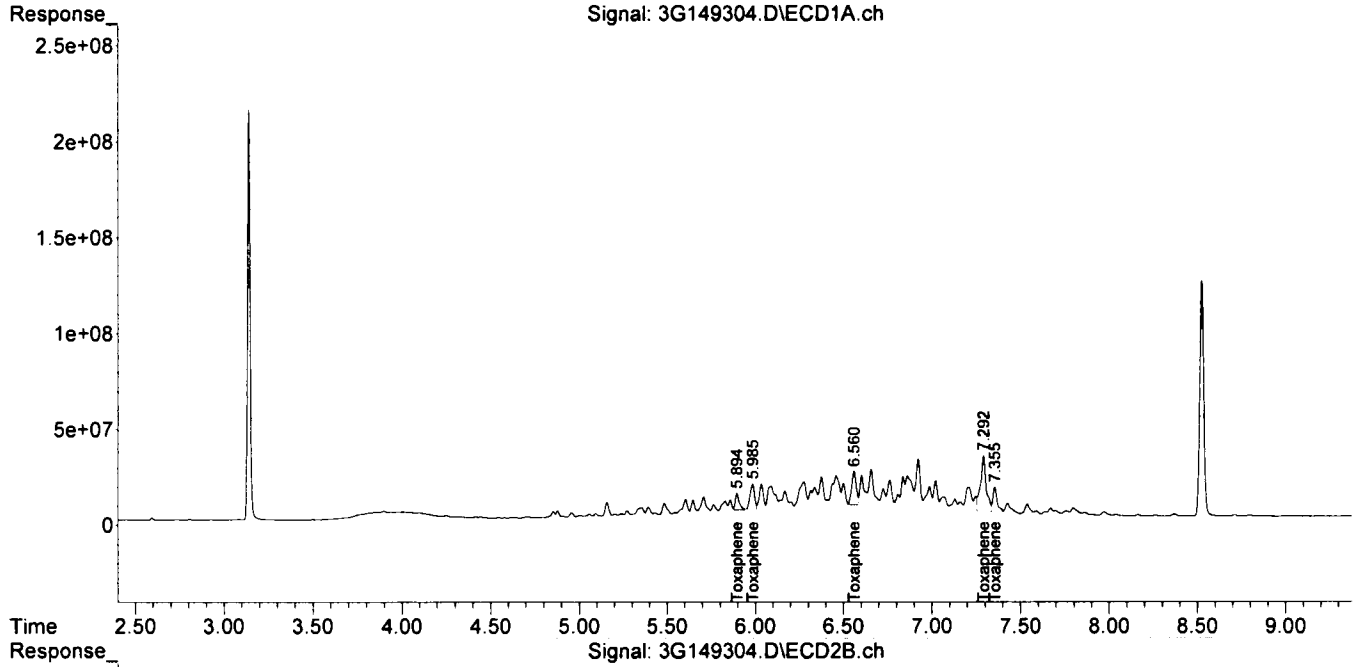
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

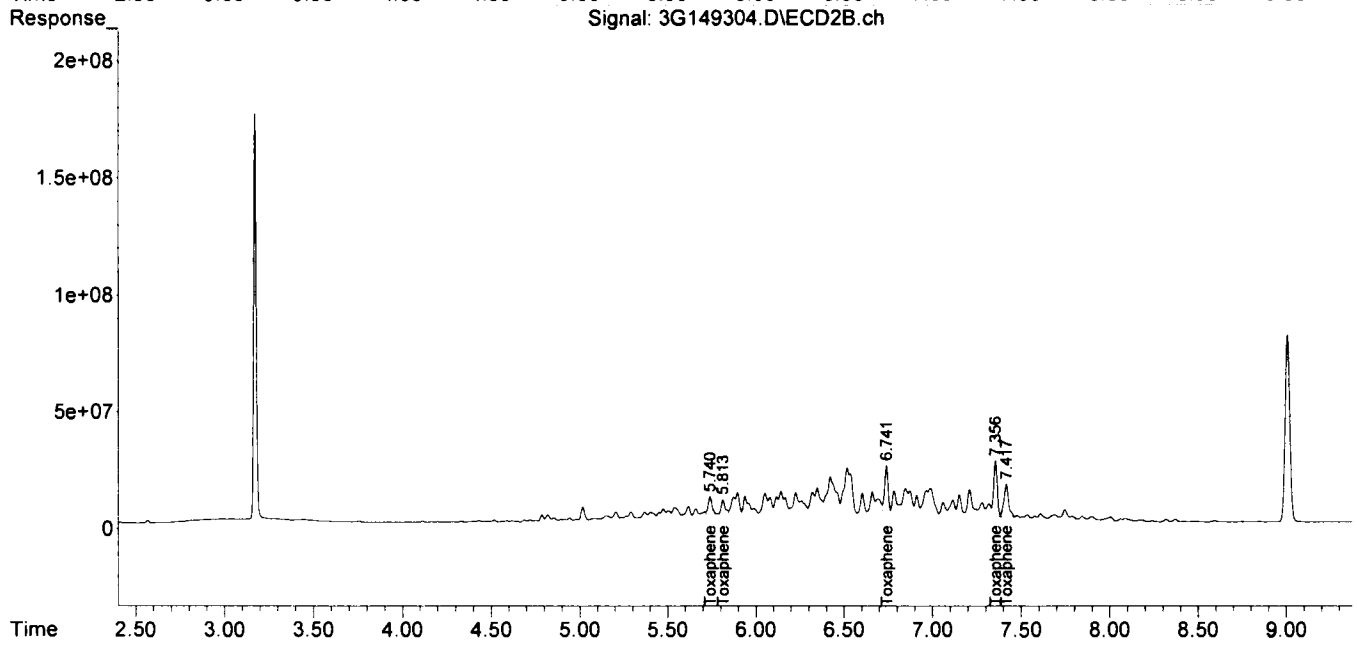
Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_3\DATA\0703-23\
Data File : 3G149304.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jul 2023 18:34
Operator : AH//PR/KM
Sample : TOX@2000PPB
Misc : S,PEST
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 04 17:24:28 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Tue Jul 04 10:15:42 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_3\DATA\0703-23\
Data File : 3G149305.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jul 2023 18:46
Operator : AH//PR/KM
Sample : TOX@4000PPB
Misc : S,PEST
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 04 17:28:43 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Tue Jul 04 10:15:42 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
26)Toxaphene {1}	5.891	5.735	252.0E6	230.1E6	2505.892m	3511.494m#
27)Toxaphene {2}	5.980	5.808	448.6E6	176.9E6	3113.965m	1588.591m#
28)Toxaphene {3}	6.555	6.736	580.2E6	486.3E6	4689.125m	8230.376m#
29)Toxaphene {4}	7.287	7.351	1266.1E6	674.3E6	9992.134m	4985.955m#
30)Toxaphene {5}	7.351	7.412	401.3E6	542.2E6	2288.549m	5795.742m#

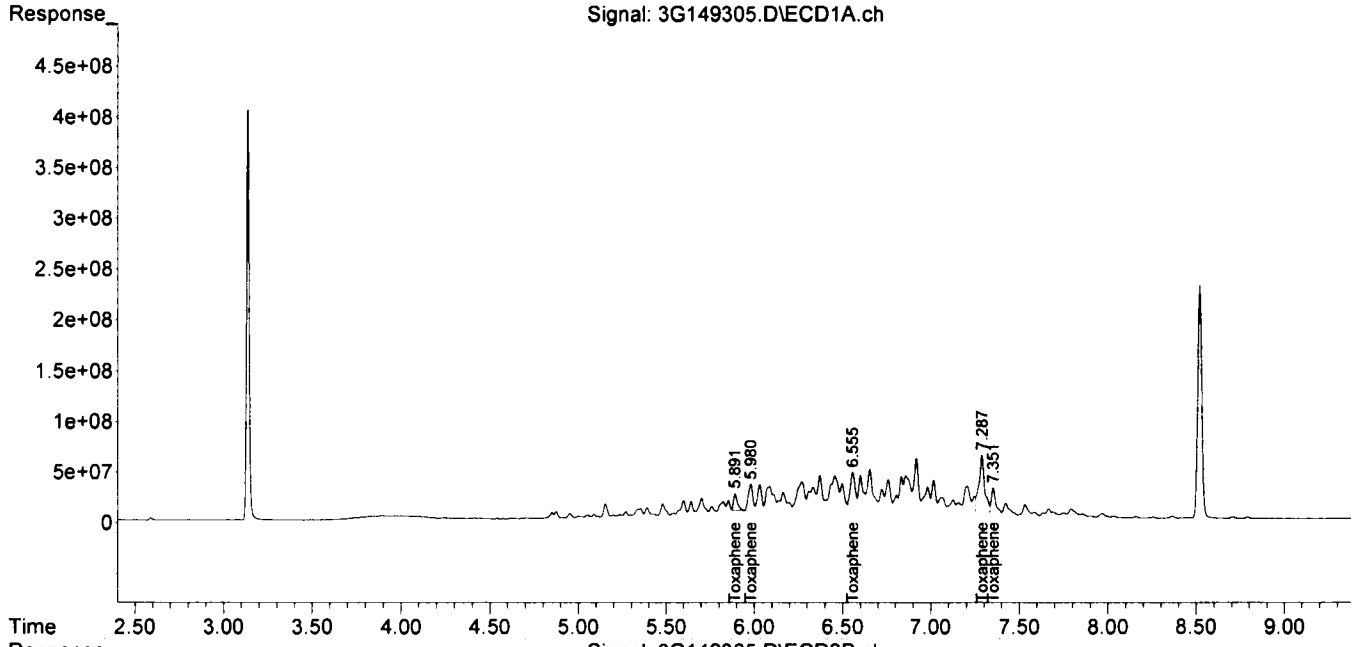
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

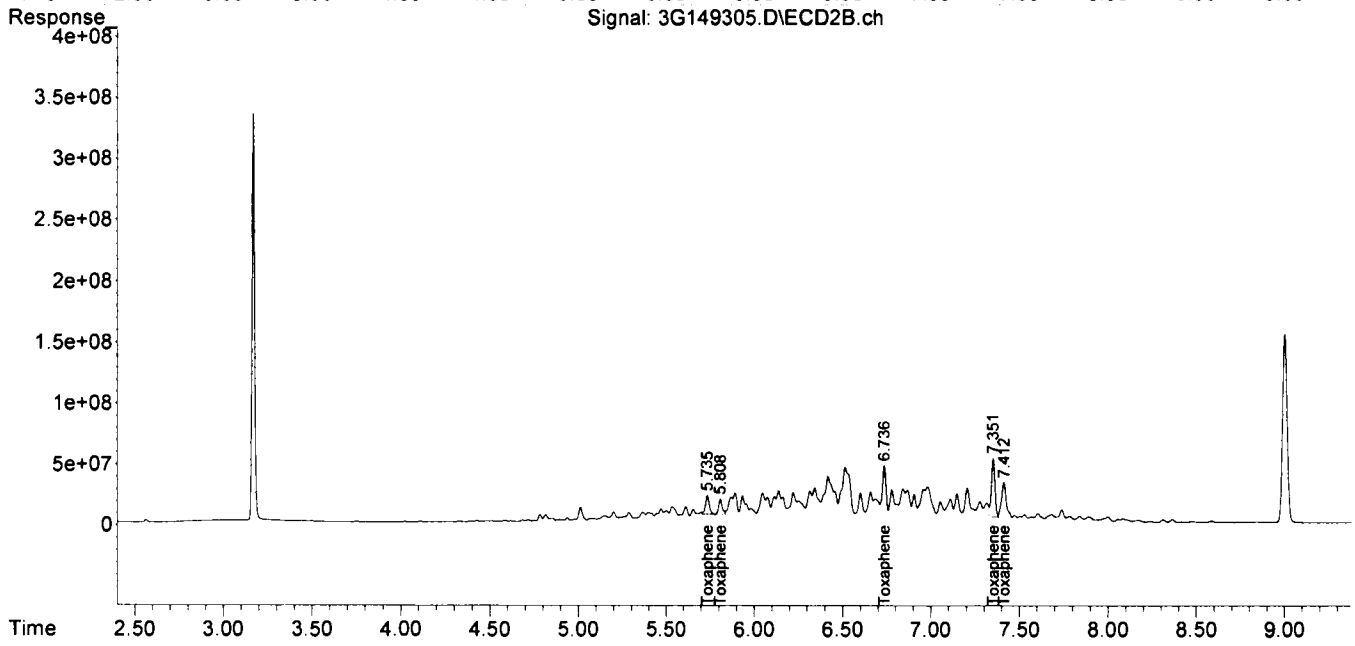
Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_3\DATA\0703-23\
Data File : 3G149305.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jul 2023 18:46
Operator : AH//PR/KM
Sample : TOX@4000PPB
Misc : S,PEST
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 04 17:28:43 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Tue Jul 04 10:15:42 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\GCDATA\2023\GC_3\DATA\0703-23\
Data File : 3G149306.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jul 2023 18:57
Operator : AH//PR/KM
Sample : TOX ICV
Misc : S,PEST
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 04 17:41:19 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Tue Jul 04 17:33:31 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.140	3.173	526.4E6	435.3E6	47.506	46.355m
22)DCB-Surrogate	8.523	9.008	495.8E6	358.8E6	47.012	46.080
26)Toxaphene {1}	5.895	5.739	31619155	26388836	474.390m	477.194m
27)Toxaphene {2}	5.985	5.812	53456772	21785581	468.515m	445.408m
28)Toxaphene {3}	6.560	6.740	74052259	59223199	473.305m	471.432m
29)Toxaphene {4}	7.292	7.356	145.2E6	81005702	489.406m	491.181m
30)Toxaphene {5}	7.355	7.417	45630871	56835895	485.908m	470.864m

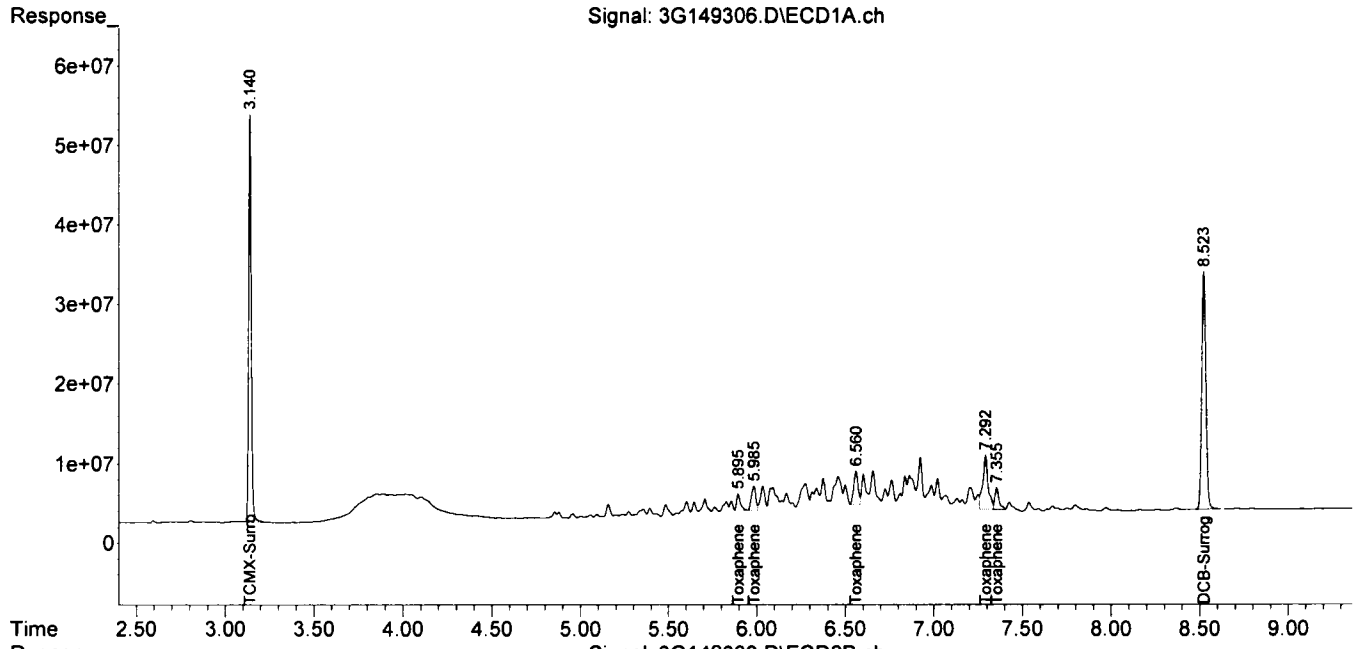
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

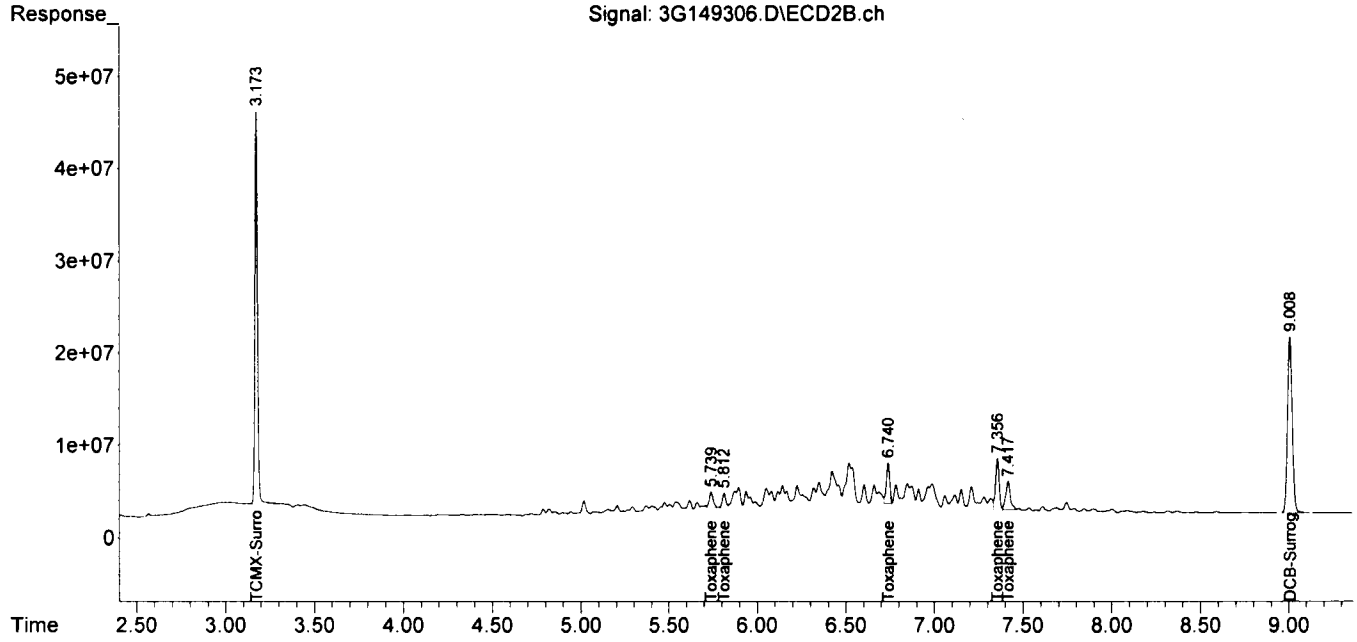
Quantitation Report (QT Reviewed)

Data Path : G:\GCDATA\2023\GC_3\DATA\0703-23\
Data File : 3G149306.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jul 2023 18:57
Operator : AH//PR/KM
Sample : TOX ICV
Misc : S,PEST
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 04 17:41:19 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Tue Jul 04 17:33:31 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





TxtDfile: 3G148120.D ICV FORM Date/Time: 06/02/23 18:47

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
TCMX-Surrogate	2	0		49.76	100	50	*	70	130
TCMX-Surrogate	1	0		49.75	100	50	*	70	130
alpha-BHC	1	0		0	100	0	*	70	130
alpha-BHC	2	0		0	100	0	*	70	130
gamma-BHC	1	0		0	100	0	*	70	130
gamma-BHC	2	0		0	100	0	*	70	130
beta-BHC	2	0		0	100	0	*	70	130
beta-BHC	1	0		0	100	0	*	70	130
Heptachlor	2	0		0	100	0	*	70	130
Heptachlor	1	0		0	100	0	*	70	130
delta-BHC	1	0		0	100	0	*	70	130
delta-BHC	2	0		0	100	0	*	70	130
Aldrin	1	0		0	100	0	*	70	130
Aldrin	2	0		0	100	0	*	70	130
Heptachlor Epoxide	1	0		0	100	0	*	70	130
Heptachlor Epoxide	2	0		0	100	0	*	70	130
v-chlordane	1	0		0	100	0	*	70	130
v-chlordane	2	0		0	100	0	*	70	130
a-chlordane	1	0		0	100	0	*	70	130
a-chlordane	2	0		0	100	0	*	70	130
Endosulfan I	2	0		0	100	0	*	70	130
Endosulfan I	1	0		0	100	0	*	70	130
p,p'-DDE	2	0		0	100	0	*	70	130
p,p'-DDE	1	0		0	100	0	*	70	130
Dieldrin	2	0		0	100	0	*	70	130
Dieldrin	1	0		0	100	0	*	70	130
Endrin	1	0		0	100	0	*	70	130
Endrin	2	0		0	100	0	*	70	130
p,p'-DDD	2	0		0	100	0	*	70	130
p,p'-DDD	1	0		0	100	0	*	70	130
Endosulfan II	1	0		0	100	0	*	70	130
Endosulfan II	2	0		0	100	0	*	70	130
p,p'-DDT	2	0		0	100	0	*	70	130
p,p'-DDT	1	0		0	100	0	*	70	130
Endrin Aldehyde	2	0		0	100	0	*	70	130
Endrin Aldehyde	1	0		0	100	0	*	70	130
Endosulfan Sulfate	1	0		0	100	0	*	70	130
Endosulfan Sulfate	2	0		0	100	0	*	70	130
Methoxychlor	2	0		0	100	0	*	70	130
Methoxychlor	1	0		0	100	0	*	70	130
Endrin Ketone	2	0		0	100	0	*	70	130
Endrin Ketone	1	0		0	100	0	*	70	130
DCB-Surrogate	1	0		49.63	100	50	*	70	130
DCB-Surrogate	2	0		50.7	100	51	*	70	130

TxtDfile: 3G148121.D ICV FORM Date/Time: 06/02/23 18:59

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
TCMX-Surrogate	1	0		101.72	100	102		70	130
TCMX-Surrogate	2	0		100.17	100	100		70	130
alpha-BHC	1	0		94.8	100	95		70	130
alpha-BHC	2	0		101.53	100	102		70	130
gamma-BHC	1	0		104.77	100	105		70	130
gamma-BHC	2	0		102.28	100	102		70	130
beta-BHC	2	0		100.91	100	101		70	130
beta-BHC	1	0		96.3	100	96		70	130
Heptachlor	2	0		102.86	100	103		70	130
Heptachlor	1	0		97.2	100	97		70	130
delta-BHC	2	0		103.55	100	104		70	130
delta-BHC	1	0		98.89	100	99		70	130
Aldrin	1	0		96.92	100	97		70	130
Aldrin	2	0		100.5	100	100		70	130
Heptachlor Epoxide	2	0		101.44	100	101		70	130
Heptachlor Epoxide	1	0		98.54	100	99		70	130
y-chlordane	2	0		92.17	100	92		70	130
y-chlordane	1	0		88.03	100	88		70	130
a-chlordane	2	0		102.39	100	102		70	130
a-chlordane	1	0		99.03	100	99		70	130
Endosulfan I	2	0		103.98	100	104		70	130
Endosulfan I	1	0		98.94	100	99		70	130
p,p'-DDE	2	0		105.78	100	106		70	130
p,p'-DDE	1	0		101.76	100	102		70	130
Dieldrin	1	0		93.16	100	93		70	130
Dieldrin	2	0		97.13	100	97		70	130
Endrin	2	0		93.65	100	94		70	130
Endrin	1	0		88.37	100	88		70	130
p,p'-DDD	2	0		97.3	100	97		70	130
p,p'-DDD	1	0		94.72	100	95		70	130
Endosulfan II	1	0		97.87	100	98		70	130
Endosulfan II	2	0		101.36	100	101		70	130
p,p'-DDT	2	0		106.14	100	106		70	130
p,p'-DDT	1	0		102.63	100	103		70	130
Endrin Aldehyde	1	0		114.29	100	114		70	130
Endrin Aldehyde	2	0		117	100	117		70	130
Endosulfan Sulfate	1	0		93.2	100	93		70	130
Endosulfan Sulfate	2	0		96.16	100	96		70	130
Methoxychlor	1	0		95.42	100	95		70	130
Methoxychlor	2	0		100.47	100	100		70	130
Endrin Ketone	1	0		94.44	100	94		70	130
Endrin Ketone	2	0		101.54	100	102		70	130
DCB-Surrogate	1	0		98.66	100	99		70	130
DCB-Surrogate	2	0		102.22	100	102		70	130

TxtDfile: 3G148122.D ICV FORM Date/Time: 06/02/23 19:10

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
TCMX-Surrogate	1	0		100.38	100	100		70	130
TCMX-Surrogate	2	0		100.21	100	100		70	130
alpha-BHC	1	0		94.51	100	95		70	130
alpha-BHC	2	0		101.7	100	102		70	130
gamma-BHC	1	0		97.76	100	98		70	130
gamma-BHC	2	0		102.38	100	102		70	130
beta-BHC	2	0		100.9	100	101		70	130
beta-BHC	1	0		97.39	100	97		70	130
Heptachlor	2	0		102.76	100	103		70	130
Heptachlor	1	0		100.98	100	101		70	130
delta-BHC	2	0		103.55	100	104		70	130
delta-BHC	1	0		99.19	100	99		70	130
Aldrin	1	0		98.67	100	99		70	130
Aldrin	2	0		100.53	100	101		70	130
Heptachlor Epoxide	1	0		98.73	100	99		70	130
Heptachlor Epoxide	2	0		101.27	100	101		70	130
y-chlordane	2	0		92.1	100	92		70	130
y-chlordane	1	0		88.1	100	88		70	130
a-chlordane	2	0		102.27	100	102		70	130
a-chlordane	1	0		99.22	100	99		70	130
Endosulfan I	1	0		98.72	100	99		70	130
Endosulfan I	2	0		104.02	100	104		70	130
p,p'-DDE	1	0		101.71	100	102		70	130
p,p'-DDE	2	0		105.88	100	106		70	130
Dieldrin	1	0		93.26	100	93		70	130
Dieldrin	2	0		97.25	100	97		70	130
Endrin	2	0		93.69	100	94		70	130
Endrin	1	0		88.18	100	88		70	130
p,p'-DDD	2	0		97.88	100	98		70	130
p,p'-DDD	1	0		94.58	100	95		70	130
Endosulfan II	1	0		98.07	100	98		70	130
Endosulfan II	2	0		101.97	100	102		70	130
p,p'-DDT	2	0		106.5	100	107		70	130
p,p'-DDT	1	0		102.41	100	102		70	130
Endrin Aldehyde	1	0		113.93	100	114		70	130
Endrin Aldehyde	2	0		118.02	100	118		70	130
Endosulfan Sulfate	2	0		96.82	100	97		70	130
Endosulfan Sulfate	1	0		92.19	100	92		70	130
Methoxychlor	2	0		98.7	100	99		70	130
Methoxychlor	1	0		93.23	100	93		70	130
Endrin Ketone	1	0		95.23	100	95		70	130
Endrin Ketone	2	0		100.39	100	100		70	130
DCB-Surrogate	2	0		102.82	100	103		70	130
DCB-Surrogate	1	0		97.99	100	98		70	130

TxtDfile: 3G149306.D ICV FORM Date/Time: 07/03/23 18:57

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
TCMX-Surrogate	2	0		46.35	100	46	*	70	130
TCMX-Surrogate	1	0		47.51	100	48	*	70	130
alpha-BHC	2	0		0	100	0	*	70	130
alpha-BHC	1	0		0	100	0	*	70	130
gamma-BHC	2	0		0	100	0	*	70	130
gamma-BHC	1	0		0	100	0	*	70	130
beta-BHC	1	0		0	100	0	*	70	130
beta-BHC	2	0		0	100	0	*	70	130
Heptachlor	1	0		0	100	0	*	70	130
Heptachlor	2	0		0	100	0	*	70	130
delta-BHC	1	0		0	100	0	*	70	130
delta-BHC	2	0		0	100	0	*	70	130
Aldrin	2	0		0	100	0	*	70	130
Aldrin	1	0		0	100	0	*	70	130
Heptachlor Epoxide	2	0		0	100	0	*	70	130
Heptachlor Epoxide	1	0		0	100	0	*	70	130
v-chlordane	2	0		0	100	0	*	70	130
v-chlordane	1	0		0	100	0	*	70	130
a-chlordane	1	0		0	100	0	*	70	130
a-chlordane	2	0		0	100	0	*	70	130
Endosulfan I	1	0		0	100	0	*	70	130
Endosulfan I	2	0		0	100	0	*	70	130
p,p'-DDE	1	0		0	100	0	*	70	130
p,p'-DDE	2	0		0	100	0	*	70	130
Dieldrin	2	0		0	100	0	*	70	130
Dieldrin	1	0		0	100	0	*	70	130
Endrin	1	0		0	100	0	*	70	130
Endrin	2	0		0	100	0	*	70	130
p,p'-DDD	2	0		0	100	0	*	70	130
p,p'-DDD	1	0		0	100	0	*	70	130
Endosulfan II	1	0		0	100	0	*	70	130
Endosulfan II	2	0		0	100	0	*	70	130
p,p'-DDT	2	0		0	100	0	*	70	130
p,p'-DDT	1	0		0	100	0	*	70	130
Endrin Aldehyde	1	0		0	100	0	*	70	130
Endrin Aldehyde	2	0		0	100	0	*	70	130
Endosulfan Sulfate	2	0		0	100	0	*	70	130
Endosulfan Sulfate	1	0		0	100	0	*	70	130
Methoxychlor	2	0		0	100	0	*	70	130
Methoxychlor	1	0		0	100	0	*	70	130
Endrin Ketone	1	0		0	100	0	*	70	130
Endrin Ketone	2	0		0	100	0	*	70	130
DCB-Surrogate	2	0		46.08	100	46	*	70	130
DCB-Surrogate	1	0		47.01	100	47	*	70	130

TxtDfile: 3G149307.D ICV FORM Date/Time: 07/03/23 19:09

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
TCMX-Surrogate	2	0		92.03	100	92		70	130
TCMX-Surrogate	1	0		94.62	100	95		70	130
alpha-BHC	1	0		94.14	100	94		70	130
alpha-BHC	2	0		95.57	100	96		70	130
gamma-BHC	2	0		93.93	100	94		70	130
gamma-BHC	1	0		97.64	100	98		70	130
beta-BHC	1	0		92.97	100	93		70	130
beta-BHC	2	0		91.97	100	92		70	130
Heptachlor	1	0		94.34	100	94		70	130
Heptachlor	2	0		96.53	100	97		70	130
delta-BHC	2	0		94.99	100	95		70	130
delta-BHC	1	0		96.38	100	96		70	130
Aldrin	1	0		93.15	100	93		70	130
Aldrin	2	0		92.37	100	92		70	130
Heptachlor Epoxide	1	0		94.59	100	95		70	130
Heptachlor Epoxide	2	0		93.16	100	93		70	130
y-chlordane	2	0		84.83	100	85		70	130
y-chlordane	1	0		84.44	100	84		70	130
a-chlordane	1	0		94.44	100	94		70	130
a-chlordane	2	0		93.11	100	93		70	130
Endosulfan I	1	0		95.51	100	96		70	130
Endosulfan I	2	0		95.13	100	95		70	130
p,p'-DDE	1	0		97.99	100	98		70	130
p,p'-DDE	2	0		97.61	100	98		70	130
Dieldrin	1	0		90.02	100	90		70	130
Dieldrin	2	0		89	100	89		70	130
Endrin	1	0		96.03	100	96		70	130
Endrin	2	0		96.53	100	97		70	130
p,p'-DDD	1	0		93.6	100	94		70	130
p,p'-DDD	2	0		88.49	100	88		70	130
Endosulfan II	2	0		90.19	100	90		70	130
Endosulfan II	1	0		93.94	100	94		70	130
p,p'-DDT	2	0		96.38	100	96		70	130
p,p'-DDT	1	0		100.91	100	101		70	130
Endrin Aldehyde	1	0		106.34	100	106		70	130
Endrin Aldehyde	2	0		98.72	100	99		70	130
Endosulfan Sulfate	1	0		90.32	100	90		70	130
Endosulfan Sulfate	2	0		89.53	100	90		70	130
Methoxychlor	1	0		98.15	100	98		70	130
Methoxychlor	2	0		91.29	100	91		70	130
Endrin Ketone	2	0		86.32	100	86		70	130
Endrin Ketone	1	0		89.2	100	89		70	130
DCB-Surrogate	1	0		92.83	100	93		70	130
DCB-Surrogate	2	0		93.05	100	93		70	130

TxtDfile: 6G177199.D ICV FORM Date/Time: 06/14/23 13:11

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
TCMX-Surrogate	2	0		63.52	100	64	*	70	130
TCMX-Surrogate	1	0		50.73	100	51	*	70	130
alpha-BHC	1	0		0	100	0	*	70	130
alpha-BHC	2	0		0	100	0	*	70	130
gamma-BHC	1	0		0	100	0	*	70	130
gamma-BHC	2	0		0	100	0	*	70	130
beta-BHC	2	0		0	100	0	*	70	130
beta-BHC	1	0		0	100	0	*	70	130
Heptachlor	2	0		0	100	0	*	70	130
Heptachlor	1	0		0	100	0	*	70	130
delta-BHC	2	0		0	100	0	*	70	130
delta-BHC	1	0		0	100	0	*	70	130
Aldrin	1	0		0	100	0	*	70	130
Aldrin	2	0		0	100	0	*	70	130
Heptachlor Epoxide	1	0		0	100	0	*	70	130
Heptachlor Epoxide	2	0		0	100	0	*	70	130
y-chlordane	2	0		0	100	0	*	70	130
y-chlordane	1	0		0	100	0	*	70	130
a-chlordane	1	0		0	100	0	*	70	130
a-chlordane	2	0		0	100	0	*	70	130
Endosulfan I	1	0		0	100	0	*	70	130
Endosulfan I	2	0		0	100	0	*	70	130
p,p'-DDE	1	0		0	100	0	*	70	130
p,p'-DDE	2	0		0	100	0	*	70	130
Dieldrin	2	0		0	100	0	*	70	130
Dieldrin	1	0		0	100	0	*	70	130
Endrin	1	0		0	100	0	*	70	130
Endrin	2	0		0	100	0	*	70	130
p,p'-DDD	1	0		0	100	0	*	70	130
p,p'-DDD	2	0		0	100	0	*	70	130
Endosulfan II	2	0		0	100	0	*	70	130
Endosulfan II	1	0		0	100	0	*	70	130
p,p'-DDT	1	0		0	100	0	*	70	130
p,p'-DDT	2	0		0	100	0	*	70	130
Endrin Aldehyde	2	0		0	100	0	*	70	130
Endrin Aldehyde	1	0		0	100	0	*	70	130
Endosulfan Sulfate	2	0		0	100	0	*	70	130
Endosulfan Sulfate	1	0		0	100	0	*	70	130
Methoxychlor	1	0		0	100	0	*	70	130
Methoxychlor	2	0		0	100	0	*	70	130
Endrin Ketone	2	0		0	100	0	*	70	130
Endrin Ketone	1	0		0	100	0	*	70	130
DCB-Surrogate	1	0		49.44	100	49	*	70	130
DCB-Surrogate	2	0		49.8	100	50	*	70	130

TxtDfile: 6G177200.D ICV FORM Date/Time: 06/14/23 13:23

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
TCMX-Surrogate	2	0		117.24	100	117		70	130
TCMX-Surrogate	1	0		103.86	100	104		70	130
alpha-BHC	1	0		100.54	100	101		70	130
alpha-BHC	2	0		103.75	100	104		70	130
gamma-BHC	2	0		101.98	100	102		70	130
gamma-BHC	1	0		104.62	100	105		70	130
beta-BHC	2	0		99.33	100	99		70	130
beta-BHC	1	0		99.81	100	100		70	130
Heptachlor	2	0		108.2	100	108		70	130
Heptachlor	1	0		103.18	100	103		70	130
delta-BHC	2	0		101.41	100	101		70	130
delta-BHC	1	0		103.79	100	104		70	130
Aldrin	2	0		101.76	100	102		70	130
Aldrin	1	0		101.07	100	101		70	130
Heptachlor Epoxide	1	0		103.57	100	104		70	130
Heptachlor Epoxide	2	0		102.13	100	102		70	130
y-chlordane	2	0		92.86	100	93		70	130
y-chlordane	1	0		93.23	100	93		70	130
a-chlordane	2	0		103.18	100	103		70	130
a-chlordane	1	0		104.41	100	104		70	130
Endosulfan I	2	0		104.64	100	105		70	130
Endosulfan I	1	0		104.58	100	105		70	130
p,p'-DDE	1	0		107.13	100	107		70	130
p,p'-DDE	2	0		106.08	100	106		70	130
Dieldrin	2	0		97.14	100	97		70	130
Dieldrin	1	0		97.91	100	98		70	130
Endrin	1	0		99.73	100	100		70	130
Endrin	2	0		99.45	100	99		70	130
p,p'-DDD	2	0		99.42	100	99		70	130
p,p'-DDD	1	0		99.94	100	100		70	130
Endosulfan II	1	0		103.42	100	103		70	130
Endosulfan II	2	0		103.09	100	103		70	130
p,p'-DDT	2	0		98.04	100	98		70	130
p,p'-DDT	1	0		109.26	100	109		70	130
Endrin Aldehyde	2	0		115.17	100	115		70	130
Endrin Aldehyde	1	0		115.9	100	116		70	130
Endosulfan Sulfate	1	0		96.2	100	96		70	130
Endosulfan Sulfate	2	0		98.1	100	98		70	130
Methoxychlor	2	0		104.81	100	105		70	130
Methoxychlor	1	0		100.89	100	101		70	130
Endrin Ketone	2	0		101.16	100	101		70	130
Endrin Ketone	1	0		99.17	100	99		70	130
DCB-Surrogate	1	0		103.16	100	103		70	130
DCB-Surrogate	2	0		104.07	100	104		70	130

Form7
Continuing Calibration

Method: EPA 8081B

Data File:				3G149254.D			3G149276.D			3G149354.D			3G149375.D			6G178160.D		
Method:				8081			8081			8081			8081			8081		
Calibration Name:				CAL PEST@100PP			CAL PEST@100PP			CAL PEST@100PP			CAL PEST@100PP			CAL PEST@100PP		
Calibration Date/Time				06/30/23 12:21			06/30/23 17:03			07/06/23 09:31			07/06/23 13:47			07/11/23 14:15		
				Conc			Conc			Conc			Conc			Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
TCMX-Surrogate	20	1	0	105.3	100	5.3	111.5	100	11.5	93	100	7.0	100.2	100	0.2	105.8	100	5.8
alpha-BHC	20	1	0	116.1	100	16.1	114.2	100	14.2	93.68	100	6.3	101.3	100	1.3	110	100	10.0
gamma-BHC	20	1	0	116.4	100	16.4	115.1	100	15.1	97.49	100	2.5	101.4	100	1.4	106.2	100	6.2
beta-BHC	20	1	0	107.9	100	7.9	109.4	100	9.4	92.82	100	7.2	98.87	100	1.1	95.76	100	4.2
Heptachlor	20	1	0	107.6	100	7.6	105	100	4.9	94.46	100	5.5	104.1	100	4.1	102.6	100	2.6
delta-BHC	20	1	0	110.2	100	10.2	113.2	100	13.2	95.86	100	4.1	101.7	100	1.7	100.8	100	0.8
Aldrin	20	1	0	110.1	100	10.1	111.8	100	11.8	95.35	100	4.7	102.5	100	2.5	101.8	100	1.8
Heptachlor Epoxide	20	1	0	108.9	100	8.8	0.3	100	99.7*	92.36	100	7.6	97.9	100	2.1	101.1	100	1.1
y-chlordane	20	1	0	107.6	100	7.6	112.3	100	12.3	93.19	100	6.8	99.72	100	0.3	100.1	100	0.1
a-chlordane	20	1	0	109.8	100	9.8	112.6	100	12.6	92.17	100	7.8	98.51	100	1.5	98.92	100	1.1
Endosulfan I	20	1	0	106.1	100	6.1	111.3	100	11.3	92.82	100	7.2	100.1	100	0.1	99.89	100	0.1
p,p'-DDE	20	1	0	112.2	100	12.2	114	100	14.0	95.73	100	4.3	102.3	100	2.3	102.9	100	2.9
Dieldrin	20	1	0	111.2	100	11.2	115.2	100	15.2	95.64	100	4.4	102.3	100	2.3	103.5	100	3.4
Endrin	20	1	0	119.8	100	19.8	112.2	100	12.2	88.61	100	11.4	108.8	100	8.8	105.7	100	5.7
p,p'-DDD	20	1	0	104.6	100	4.6	110.3	100	10.3	100.4	100	0.3	105.3	100	5.3	110.7	100	10.7
Endosulfan II	20	1	0	113.9	100	13.9	95.66	100	4.3	92.45	100	7.6	96.05	100	3.9	101.1	100	1.1
p,p'-DDT	20	1	0	123.8	100	23.8*	119.2	100	19.2	99.88	100	0.1	108.8	100	8.8	88.29	100	11.7
Endrin Aldehyde	20	1	0	97.24	100	2.8	105.7	100	5.7	101.8	100	1.8	95.53	100	4.5	103.3	100	3.3
Endosulfan Sulfate	20	1	0	109.2	100	9.2	109	100	9.0	95.5	100	4.5	99.78	100	0.2	104.7	100	4.7
Methoxychlor	20	1	0	119.3	100	19.3	110.4	100	10.4	105.5	100	5.4	113	100	13.0	88.12	100	11.9
Endrin Ketone	20	1	0	108.8	100	8.8	114.2	100	14.2	94.84	100	5.2	99.12	100	0.9	104.4	100	4.3
DCB-Surrogate	20	1	0	103.6	100	3.6	103.2	100	3.2	87.45	100	12.6	94.98	100	5.0	98.62	100	1.4
Average Difference	20	1	0			10.7			15.2			5.7			3.2			4.3
TCMX-Surrogate	20	2	0	110.4	100	10.4	115.1	100	15.1	96.98	100	3.0	93.36	100	6.6	106.4	100	6.4
alpha-BHC	20	2	0	108.5	100	8.5	111.1	100	11.1	97.3	100	2.7	100.4	100	0.4	102.7	100	2.7
gamma-BHC	20	2	0	109.5	100	9.4	47.84	100	52.2*	96.75	100	3.3	99.76	100	0.2	99.38	100	0.6
beta-BHC	20	2	0	105.4	100	5.4	106.7	100	6.7	91.55	100	8.4	93.29	100	6.7	91.62	100	8.4
Heptachlor	20	2	0	105.5	100	5.5	107.9	100	7.9	92.19	100	7.8	97.36	100	2.6	103.8	100	3.8
delta-BHC	20	2	0	113.3	100	13.3	114.5	100	14.5	98.18	100	1.8	102.6	100	2.6	100.7	100	0.7
Aldrin	20	2	0	110.1	100	10.1	0.49	100	99.5*	96.77	100	3.2	101.1	100	1.1	100.5	100	0.5
Heptachlor Epoxide	20	2	0	108.5	100	8.5	110.4	100	10.4	94.87	100	5.1	99.06	100	0.9	101.8	100	1.8
y-chlordane	20	2	0	109.1	100	9.1	111	100	11.0	95.31	100	4.7	99.61	100	0.4	100.9	100	0.9
a-chlordane	20	2	0	108.9	100	8.9	110.9	100	10.9	94.44	100	5.6	99.14	100	0.9	97.35	100	2.7
Endosulfan I	20	2	0	109.3	100	9.3	111.1	100	11.1	94.46	100	5.5	99.45	100	0.6	98.59	100	1.4
p,p'-DDE	20	2	0	111.1	100	11.1	112.5	100	12.5	97.12	100	2.9	102.1	100	2.1	102.1	100	2.1
Dieldrin	20	2	0	112.4	100	12.4	114.1	100	14.1	97.15	100	2.8	102.7	100	2.7	103.8	100	3.8
Endrin	20	2	0	121.3	100	21.3*	111.6	100	11.6	89.09	100	10.9	107.8	100	7.8	103.8	100	3.8
p,p'-DDD	20	2	0	110.5	100	10.5	112.6	100	12.6	97.95	100	2.1	100.9	100	0.9	109.7	100	9.7
Endosulfan II	20	2	0	109.8	100	9.8	1.1	100	98.9*	94.05	100	5.9	95.35	100	4.7	101.9	100	1.8
p,p'-DDT	20	2	0	119	100	19.0	119.7	100	19.7	91.36	100	8.6	102.0	100	2.0	96.68	100	3.3
Endrin Aldehyde	20	2	0	108.5	100	8.5	109.6	100	9.6	94.73	100	5.3	94.85	100	5.2	102	100	2.0
Endosulfan Sulfate	20	2	0	110.1	100	10.1	109.5	100	9.5	95.2	100	4.8	106.3	100	6.3	104.7	100	4.7
Methoxychlor	20	2	0	114.9	100	14.9	118.3	100	18.3	87.34	100	12.7	99.02	100	1.0	105.4	100	5.4
Endrin Ketone	20	2	0	117	100	17.0	116.3	100	16.3	94.31	100	5.7	97.69	100	2.3	112	100	12.0
DCB-Surrogate	20	2	0	108.3	100	8.3	110.4	100	10.4	89.48	100	10.5	93.84	100	6.2	96.45	100	3.6
Average Difference	20	2	0			11.0			22.0*			5.6			2.9			3.7

Flags/Notes: **** - Values outside of limits for this column/run***

Form7
Continuing Calibration

Method: EPA 8081B

Data File:	6G178166.D	6G178539.D	6G178553.D
Method:	8081	8081	8081
Calibration Name:	CAL PEST@100PP	CAL PEST@100PP	CAL PEST@100PP
Calibration Date/Time	07/11/23 17:50	07/19/23 08:38	07/19/23 12:39

Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
TCMX-Surrogate	20	1	0	108	100	8.0	99.94	100	0.1	99.87	100	0.1						
alpha-BHC	20	1	0	117.3	100	17.3	97.3	100	2.7	102.2	100	2.2						
gamma-BHC	20	1	0	111.6	100	11.6	98	100	2.0	104.1	100	4.1						
beta-BHC	20	1	0	101.3	100	1.3	90.04	100	10.0	94.71	100	5.3						
Heptachlor	20	1	0	105.6	100	5.6	85.75	100	14.3	97.48	100	2.5						
delta-BHC	20	1	0	108.4	100	8.4	97.18	100	2.8	101.8	100	1.8						
Aldrin	20	1	0	109.8	100	9.8	98.7	100	1.3	102.5	100	2.4						
Heptachlor Epoxide	20	1	0	106.7	100	6.7	95.25	100	4.8	99.08	100	0.9						
y-chlordane	20	1	0	107.4	100	7.4	96.42	100	3.6	102.1	100	2.1						
a-chlordane	20	1	0	106.8	100	6.8	95.62	100	4.4	101.7	100	1.7						
Endosulfan I	20	1	0	107.3	100	7.3	94.81	100	5.2	100.3	100	0.3						
p,p'-DDE	20	1	0	109.8	100	9.8	97.03	100	3.0	103.1	100	3.1						
Dieldrin	20	1	0	110.1	100	10.1	98.21	100	1.8	103.2	100	3.2						
Endrin	20	1	0	110.4	100	10.4	100.4	100	0.4	105	100	5.0						
p,p'-DDD	20	1	0	115.2	100	15.2	96.73	100	3.3	104.4	100	4.4						
Endosulfan II	20	1	0	105.6	100	5.6	93.61	100	6.4	98.71	100	1.3						
p,p'-DDT	20	1	0	90.69	100	9.3	83.5	100	16.5	98.71	100	1.3						
Endrin Aldehyde	20	1	0	104.9	100	4.9	93.17	100	6.8	99.48	100	0.5						
Endosulfan Sulfate	20	1	0	107.5	100	7.5	99.1	100	0.9	103.8	100	3.8						
Methoxychlor	20	1	0	85.44	100	14.6	86.31	100	13.7	103.6	100	3.6						
Endrin Ketone	20	1	0	105.7	100	5.7	99.81	100	0.2	101.6	100	1.6						
DCB-Surrogate	20	1	0	101.5	100	1.5	101.9	100	1.9	99.03	100	1.0						
Average Difference	20	1	0			8.4			4.8			2.4						
TCMX-Surrogate	20	2	0	102	100	2.0	94.49	100	5.5	98.72	100	1.3						
alpha-BHC	20	2	0	105.9	100	5.9	95.61	100	4.4	97.36	100	2.6						
gamma-BHC	20	2	0	105.8	100	5.8	95.71	100	4.3	98.2	100	1.8						
beta-BHC	20	2	0	99.51	100	0.5	89.75	100	10.3	93.37	100	6.6						
Heptachlor	20	2	0	107.2	100	7.2	85.56	100	14.4	100.6	100	0.6						
delta-BHC	20	2	0	104.6	100	4.6	94.54	100	5.5	96.94	100	3.1						
Aldrin	20	2	0	108	100	8.0	97.12	100	2.9	100.3	100	0.3						
Heptachlor Epoxide	20	2	0	105.8	100	5.8	95.73	100	4.3	99.35	100	0.7						
y-chlordane	20	2	0	105.6	100	5.6	94.66	100	5.3	98.71	100	1.3						
a-chlordane	20	2	0	104.9	100	4.9	93.56	100	6.4	97.51	100	2.5						
Endosulfan I	20	2	0	107.2	100	7.2	94.6	100	5.4	99.5	100	0.5						
p,p'-DDE	20	2	0	106.8	100	6.8	94.99	100	5.0	100.4	100	0.4						
Dieldrin	20	2	0	110	100	10.0	97.17	100	2.8	101.9	100	1.9						
Endrin	20	2	0	110.2	100	10.2	98.54	100	1.5	102.1	100	2.1						
p,p'-DDD	20	2	0	115.2	100	15.2	94.89	100	5.1	101.1	100	1.1						
Endosulfan II	20	2	0	107.6	100	7.6	92.06	100	7.9	96.01	100	4.0						
p,p'-DDT	20	2	0	95.33	100	4.7	87.09	100	12.9	103.4	100	3.3						
Endrin Aldehyde	20	2	0	105.2	100	5.2	91.76	100	8.2	99.32	100	0.7						
Endosulfan Sulfate	20	2	0	107.5	100	7.5	96.05	100	3.9	99.08	100	0.9						
Methoxychlor	20	2	0	104.7	100	4.7	86.03	100	14.0	100.3	100	0.3						
Endrin Ketone	20	2	0	114.8	100	14.8	96.34	100	3.7	102.1	100	2.1						
DCB-Surrogate	20	2	0	104.4	100	4.4	90.41	100	9.6	96.66	100	3.3						
Average Difference	20	2	0			6.7			6.5			1.9						

Flags/Notes: **** - Values outside of limits for this column/run***

Form7
RtWindow Summary

Method: EPA 8081B

Data File:	3G148106.D		3G149291.D		6G177188.D		3G149254.D		3G149354.D	
Calibration Name:	CAL PEST@2PPB		CAL PEST@2PPB		CAL PEST@2PPB		CAL PEST@100PPB		CAL PEST@100PPB	
Calibration Date/Time	6/2/2023 4:02:00 PM		7/3/2023 4:01:00 PM		6/14/2023 11:02:00 AM		6/30/2023 12:21:00 PM		7/6/2023 9:31:00 AM	
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
TCMX-Surrogate	1	0	3.16	(3.10 - 3.22)	3.14	(3.08 - 3.20)	3.09	(3.03 - 3.15)	3.15	(3.09 - 3.21)	3.14	(3.08 - 3.20)
alpha-BHC	1	0	3.92	(3.88 - 3.96)	3.90	(3.86 - 3.94)	3.84	(3.80 - 3.88)	3.91	(3.87 - 3.95)	3.90	(3.86 - 3.94)
gamma-BHC	1	0	4.28	(4.24 - 4.32)	4.25	(4.21 - 4.29)	4.19	(4.15 - 4.23)	4.26	(4.22 - 4.30)	4.26	(4.22 - 4.30)
beta-BHC	1	0	4.94	(4.86 - 5.02)	4.91	(4.83 - 4.99)	4.84	(4.76 - 4.92)	4.92	(4.84 - 5.00)	4.91	(4.83 - 4.99)
Heptachlor	1	0	4.48	(4.44 - 4.52)	4.45	(4.41 - 4.49)	4.38	(4.34 - 4.42)	4.46	(4.42 - 4.50)	4.45	(4.41 - 4.49)
delta-BHC	1	0	5.19	(5.11 - 5.27)	5.16	(5.08 - 5.24)	5.09	(5.01 - 5.17)	5.17	(5.09 - 5.25)	5.17	(5.09 - 5.25)
Aldrin	1	0	4.74	(4.66 - 4.82)	4.71	(4.63 - 4.79)	4.64	(4.56 - 4.72)	4.72	(4.64 - 4.80)	4.72	(4.64 - 4.80)
Heptachlor Epoxide	1	0	5.38	(5.34 - 5.42)	5.34	(5.30 - 5.38)	5.27	(5.23 - 5.31)	5.35	(5.31 - 5.39)	5.35	(5.31 - 5.39)
v-chlordane	1	0	5.69	(5.65 - 5.73)	5.65	(5.61 - 5.69)	5.57	(5.53 - 5.61)	5.66	(5.62 - 5.70)	5.65	(5.61 - 5.69)
a-chlordane	1	0	5.74	(5.70 - 5.78)	5.70	(5.66 - 5.74)	5.63	(5.59 - 5.67)	5.71	(5.67 - 5.75)	5.71	(5.67 - 5.75)
Endosulfan I	1	0	5.65	(5.61 - 5.69)	5.61	(5.57 - 5.65)	5.54	(5.50 - 5.58)	5.62	(5.58 - 5.66)	5.62	(5.58 - 5.66)
p,p'-DDE	1	0	5.81	(5.73 - 5.89)	5.77	(5.69 - 5.85)	5.69	(5.61 - 5.77)	5.78	(5.70 - 5.86)	5.77	(5.69 - 5.85)
Dieldrin	1	0	6.00	(5.92 - 6.08)	5.96	(5.88 - 6.04)	5.88	(5.80 - 5.96)	5.98	(5.90 - 6.06)	5.97	(5.89 - 6.05)
Endrin	1	0	6.20	(6.16 - 6.24)	6.16	(6.12 - 6.20)	6.09	(6.05 - 6.13)	6.18	(6.14 - 6.22)	6.17	(6.13 - 6.21)
p,p'-DDD	1	0	6.58	(6.50 - 6.66)	6.54	(6.46 - 6.62)	6.46	(6.38 - 6.54)	6.55	(6.47 - 6.63)	6.55	(6.47 - 6.63)
Endosulfan II	1	0	6.67	(6.59 - 6.75)	6.63	(6.55 - 6.71)	6.55	(6.47 - 6.63)	6.64	(6.56 - 6.72)	6.64	(6.56 - 6.72)
p,p'-DDT	1	0	6.75	(6.67 - 6.83)	6.70	(6.62 - 6.78)	6.62	(6.54 - 6.70)	6.72	(6.64 - 6.80)	6.71	(6.63 - 6.79)
Endrin Aldehyde	1	0	7.09	(7.01 - 7.17)	7.04	(6.96 - 7.12)	6.96	(6.88 - 7.04)	7.06	(6.98 - 7.14)	7.05	(6.97 - 7.13)
Endosulfan Sulfate	1	0	7.40	(7.36 - 7.44)	7.35	(7.31 - 7.39)	7.27	(7.23 - 7.31)	7.36	(7.32 - 7.40)	7.36	(7.32 - 7.40)
Methoxychlor	1	0	7.34	(7.30 - 7.38)	7.29	(7.25 - 7.33)	7.20	(7.16 - 7.24)	7.30	(7.26 - 7.34)	7.29	(7.25 - 7.33)
Endrin Ketone	1	0	7.81	(7.73 - 7.89)	7.76	(7.68 - 7.84)	7.67	(7.59 - 7.75)	7.77	(7.69 - 7.85)	7.77	(7.69 - 7.85)
DCB-Surrogate	1	0	6.58	(8.52 - 8.64)	8.52	(8.46 - 8.58)	8.41	(8.35 - 8.47)	8.54	(8.48 - 8.60)	8.53	(8.47 - 8.59)
Chlordane (Technical	1	1										
Chlordane (Technical	1	2										
Chlordane (Technical	1	3										
Toxaphene	1	1										
Toxaphene	1	2										
Toxaphene	1	3										
Toxaphene	1	4										
Toxaphene	1	5										
TCMX-Surrogate	2	0	3.19	(3.13 - 3.25)	3.17	(3.11 - 3.23)	3.23	(3.17 - 3.29)	3.17	(3.11 - 3.23)	3.17	(3.11 - 3.23)
alpha-BHC	2	0	3.78	(3.74 - 3.82)	3.76	(3.72 - 3.80)	3.82	(3.78 - 3.86)	3.76	(3.72 - 3.80)	3.76	(3.72 - 3.80)
gamma-BHC	2	0	4.14	(4.10 - 4.18)	4.11	(4.07 - 4.15)	4.18	(4.14 - 4.22)	4.12	(4.08 - 4.16)	4.12	(4.08 - 4.16)
beta-BHC	2	0	4.19	(4.11 - 4.27)	4.16	(4.08 - 4.24)	4.23	(4.15 - 4.31)	4.17	(4.09 - 4.25)	4.17	(4.09 - 4.25)
Heptachlor	2	0	4.45	(4.41 - 4.49)	4.43	(4.39 - 4.47)	4.50	(4.46 - 4.54)	4.43	(4.39 - 4.47)	4.43	(4.39 - 4.47)
delta-BHC	2	0	4.54	(4.46 - 4.62)	4.52	(4.44 - 4.60)	4.58	(4.50 - 4.66)	4.52	(4.44 - 4.60)	4.52	(4.44 - 4.60)
Aldrin	2	0	4.78	(4.70 - 4.86)	4.75	(4.67 - 4.83)	4.82	(4.74 - 4.90)	4.76	(4.68 - 4.84)	4.76	(4.68 - 4.84)
Heptachlor Epoxide	2	0	5.32	(5.28 - 5.36)	5.29	(5.25 - 5.33)	5.36	(5.32 - 5.40)	5.30	(5.26 - 5.34)	5.29	(5.25 - 5.33)
v-chlordane	2	0	5.48	(5.44 - 5.52)	5.45	(5.41 - 5.49)	5.52	(5.48 - 5.56)	5.45	(5.41 - 5.49)	5.45	(5.41 - 5.49)
a-chlordane	2	0	5.64	(5.60 - 5.68)	5.61	(5.57 - 5.65)	5.68	(5.64 - 5.72)	5.61	(5.57 - 5.65)	5.61	(5.57 - 5.65)
Endosulfan I	2	0	5.68	(5.64 - 5.72)	5.65	(5.61 - 5.69)	5.72	(5.68 - 5.76)	5.65	(5.61 - 5.69)	5.65	(5.61 - 5.69)
p,p'-DDE	2	0	5.86	(5.78 - 5.94)	5.83	(5.75 - 5.91)	5.90	(5.82 - 5.98)	5.84	(5.76 - 5.92)	5.84	(5.76 - 5.92)
Dieldrin	2	0	5.98	(5.90 - 6.06)	5.95	(5.87 - 6.03)	6.03	(5.95 - 6.11)	5.96	(5.88 - 6.04)	5.96	(5.88 - 6.04)
Endrin	2	0	6.36	(6.32 - 6.40)	6.33	(6.29 - 6.37)	6.40	(6.36 - 6.44)	6.33	(6.29 - 6.37)	6.34	(6.30 - 6.38)
p,p'-DDD	2	0	6.42	(6.34 - 6.50)	6.39	(6.31 - 6.47)	6.46	(6.38 - 6.54)	6.40	(6.32 - 6.48)	6.40	(6.32 - 6.48)
Endosulfan II	2	0	6.54	(6.46 - 6.62)	6.50	(6.42 - 6.58)	6.58	(6.50 - 6.66)	6.51	(6.43 - 6.59)	6.51	(6.43 - 6.59)
p,p'-DDT	2	0	6.73	(6.65 - 6.81)	6.70	(6.62 - 6.78)	6.77	(6.69 - 6.85)	6.71	(6.63 - 6.79)	6.71	(6.63 - 6.79)
Endrin Aldehyde	2	0	6.86	(6.78 - 6.94)	6.83	(6.75 - 6.91)	6.90	(6.82 - 6.98)	6.84	(6.76 - 6.92)	6.84	(6.76 - 6.92)
Endosulfan Sulfate	2	0	6.99	(6.95 - 7.03)	6.96	(6.92 - 7.00)	7.03	(6.99 - 7.07)	6.96	(6.92 - 7.00)	6.96	(6.92 - 7.00)
Methoxychlor	2	0	7.61	(7.57 - 7.65)	7.58	(7.54 - 7.62)	7.65	(7.61 - 7.69)	7.59	(7.55 - 7.63)	7.59	(7.55 - 7.63)
Endrin Ketone	2	0	7.80	(7.72 - 7.88)	7.76	(7.68 - 7.84)	7.84	(7.76 - 7.92)	7.77	(7.69 - 7.85)	7.77	(7.69 - 7.85)
DCB-Surrogate	2	0	9.05	(8.99 - 9.11)	9.01	(8.95 - 9.07)	9.11	(9.05 - 9.17)	9.02	(8.96 - 9.08)	9.02	(8.96 - 9.08)
Chlordane (Technical	2	1										
Chlordane (Technical	2	2										
Chlordane (Technical	2	3										
Toxaphene	2	1										
Toxaphene	2	2										
Toxaphene	2	3										
Toxaphene	2	4										
Toxaphene	2	5										

Form7
RtWindow Summary

Method: EPA 8081B

Data File:	6G178160.D	6G178539.D
Calibration Name:	CAL PEST@100PPB	CAL PEST@100PPB
Calibration Date/Time	7/11/2023 2:15:00 PM	7/19/2023 8:38:00 AM

Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
TCMX-Surrogate	1	0	3.09	(3.03 - 3.15)	3.09	(3.03 - 3.15)						
alpha-BHC	1	0	3.84	(3.80 - 3.88)	3.84	(3.80 - 3.88)						
gamma-BHC	1	0	4.19	(4.15 - 4.23)	4.19	(4.15 - 4.23)						
beta-BHC	1	0	4.84	(4.76 - 4.92)	4.84	(4.76 - 4.92)						
Heptachlor	1	0	4.38	(4.34 - 4.42)	4.38	(4.34 - 4.42)						
delta-BHC	1	0	5.09	(5.01 - 5.17)	5.09	(5.01 - 5.17)						
Aldrin	1	0	4.64	(4.56 - 4.72)	4.64	(4.56 - 4.72)						
Heptachlor Epoxide	1	0	5.26	(5.22 - 5.30)	5.26	(5.22 - 5.30)						
v-chlordane	1	0	5.57	(5.53 - 5.61)	5.57	(5.53 - 5.61)						
a-chlordane	1	0	5.62	(5.58 - 5.66)	5.62	(5.58 - 5.66)						
Endosulfan I	1	0	5.53	(5.49 - 5.57)	5.53	(5.49 - 5.57)						
p,p'-DDE	1	0	5.69	(5.61 - 5.77)	5.69	(5.61 - 5.77)						
Dieldrin	1	0	5.88	(5.80 - 5.96)	5.88	(5.80 - 5.96)						
Endrin	1	0	6.08	(6.04 - 6.12)	6.08	(6.04 - 6.12)						
p,p'-DDD	1	0	6.45	(6.37 - 6.53)	6.45	(6.37 - 6.53)						
Endosulfan II	1	0	6.55	(6.47 - 6.63)	6.54	(6.46 - 6.62)						
p,p'-DDT	1	0	6.62	(6.54 - 6.70)	6.61	(6.53 - 6.69)						
Endrin Aldehyde	1	0	6.95	(6.87 - 7.03)	6.95	(6.87 - 7.03)						
Endosulfan Sulfate	1	0	7.26	(7.22 - 7.30)	7.26	(7.22 - 7.30)						
Methoxychlor	1	0	7.19	(7.15 - 7.23)	7.19	(7.15 - 7.23)						
Endrin Ketone	1	0	7.67	(7.59 - 7.75)	7.66	(7.58 - 7.74)						
DCB-Surrogate	1	0	6.41	(8.35 - 8.47)	8.40	(8.34 - 8.46)						
Chlordane (Technical	1	1										
Chlordane (Technical	1	2										
Chlordane (Technical	1	3										
Toxaphene	1	1										
Toxaphene	1	2										
Toxaphene	1	3										
Toxaphene	1	4										
Toxaphene	1	5										
TCMX-Surrogate	2	0	3.23	(3.17 - 3.29)	3.23	(3.17 - 3.29)						
alpha-BHC	2	0	3.82	(3.78 - 3.86)	3.82	(3.78 - 3.86)						
gamma-BHC	2	0	4.18	(4.14 - 4.22)	4.18	(4.14 - 4.22)						
beta-BHC	2	0	4.22	(4.14 - 4.30)	4.23	(4.15 - 4.31)						
Heptachlor	2	0	4.49	(4.45 - 4.53)	4.50	(4.46 - 4.54)						
delta-BHC	2	0	4.58	(4.50 - 4.66)	4.59	(4.51 - 4.67)						
Aldrin	2	0	4.82	(4.74 - 4.90)	4.82	(4.74 - 4.90)						
Heptachlor Epoxide	2	0	5.36	(5.32 - 5.40)	5.36	(5.32 - 5.40)						
v-chlordane	2	0	5.52	(5.48 - 5.56)	5.52	(5.48 - 5.56)						
a-chlordane	2	0	5.68	(5.64 - 5.72)	5.68	(5.64 - 5.72)						
Endosulfan I	2	0	5.72	(5.68 - 5.76)	5.72	(5.68 - 5.76)						
p,p'-DDE	2	0	5.90	(5.82 - 5.98)	5.90	(5.82 - 5.98)						
Dieldrin	2	0	6.02	(5.94 - 6.10)	6.03	(5.95 - 6.11)						
Endrin	2	0	6.40	(6.36 - 6.44)	6.40	(6.36 - 6.44)						
p,p'-DDD	2	0	6.46	(6.38 - 6.54)	6.47	(6.39 - 6.55)						
Endosulfan II	2	0	6.58	(6.50 - 6.66)	6.58	(6.50 - 6.66)						
p,p'-DDT	2	0	6.77	(6.69 - 6.85)	6.78	(6.70 - 6.86)						
Endrin Aldehyde	2	0	6.90	(6.82 - 6.98)	6.91	(6.83 - 6.99)						
Endosulfan Sulfate	2	0	7.03	(6.99 - 7.07)	7.03	(6.99 - 7.07)						
Methoxychlor	2	0	7.65	(7.61 - 7.69)	7.65	(7.61 - 7.69)						
Endrin Ketone	2	0	7.84	(7.76 - 7.92)	7.84	(7.76 - 7.92)						
DCB-Surrogate	2	0	9.11	(9.05 - 9.17)	9.11	(9.05 - 9.17)						
Chlordane (Technical	2	1										
Chlordane (Technical	2	2										
Chlordane (Technical	2	3										
Toxaphene	2	1										
Toxaphene	2	2										
Toxaphene	2	3										
Toxaphene	2	4										
Toxaphene	2	5										

Data Path : G:\Gcdata\2023\GC_3\Data\06-30-23\
Data File : 3G149254.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jun 2023 12:21
Operator : AH//PR/KM
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 16:16:07 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:43:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.147	3.174	1050.0E6	943.5E6	105.251m	110.398
2)alpha-BHC	3.908	3.761	1695.9E6	1245.9E6	116.066	108.467
3)gamma-BHC	4.263	4.119	1486.8E6	1119.7E6	116.428	109.446
4)beta-BHC	4.919	4.167	599.9E6	483.4E6	107.931	105.431
5)Heptachlor	4.459	4.434	1336.3E6	1012.6E6	107.615	105.537
6)delta-BHC	5.172	4.523	1329.2E6	1110.4E6	110.189	113.323
7)Aldrin	4.722	4.759	1321.6E6	1036.6E6	110.098	110.072
8)Heptachlor Epoxid	5.353	5.296	1186.1E6	918.1E6	108.849	108.497
9)y-chlordane	5.661	5.455	1154.1E6	909.5E6	107.589m	109.138
10)a-chlordane	5.713	5.613	1156.7E6	882.7E6	109.782	108.922m
11)Endosulfan I	5.624	5.654	1046.9E6	848.3E6	106.103m	109.277
12)p,p'-DDE	5.780	5.840	1167.7E6	892.4E6	112.161	111.104
13)Dieldrin	5.975	5.961	1224.3E6	952.1E6	111.180m	112.373
14)Endrin	6.178	6.335	1093.2E6	827.8E6	119.760m	121.272m
15)p,p'-DDD	6.551	6.400	888.1E6	747.6E6	104.554m	110.543
16)Endosulfan II	6.644	6.510	1047.0E6	781.6E6	113.866	109.791
17)p,p'-DDT	6.717	6.710	886.0E6	727.2E6	123.756m	118.989
18)Endrin Aldehyde	7.057	6.839	608.8E6	580.8E6	97.238	108.476
19)Endosulfan Sulfat	7.364	6.962	907.2E6	679.5E6	109.152	110.047
20)Methoxychlor	7.299	7.587	461.3E6	384.2E6	119.306m	114.881m
21)Endrin Ketone	7.775	7.768	1032.7E6	894.0E6	108.814	117.000
22)DCB-Surrogate	8.539	9.017	972.0E6	700.2E6	103.566	108.344

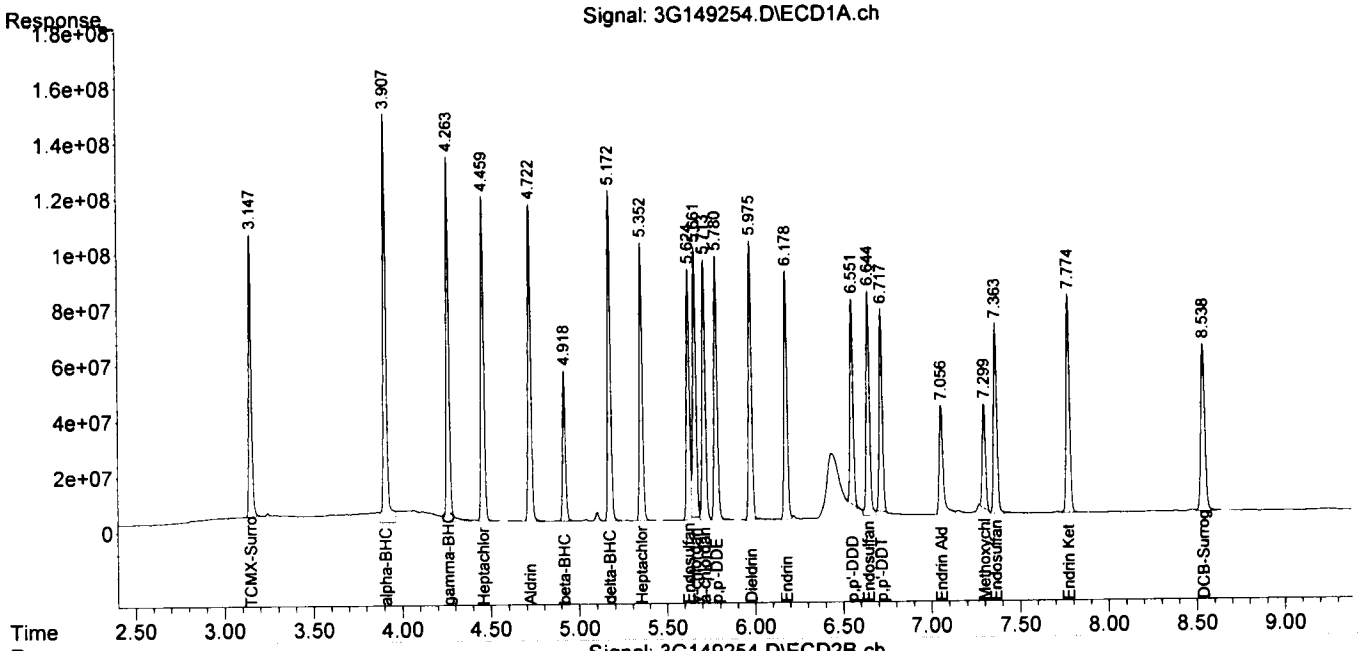
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

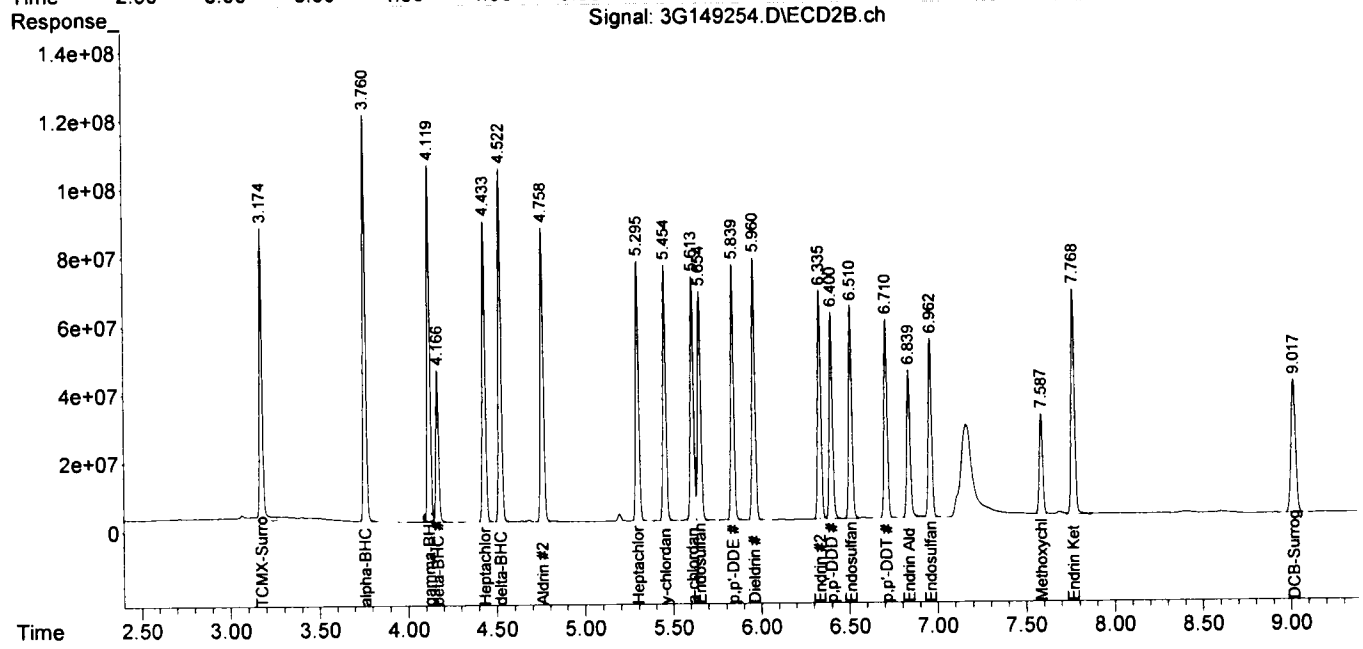
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\06-30-23\
Data File : 3G149254.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jun 2023 12:21
Operator : AH//PR/KM
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 16:16:07 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:43:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P
Signal #1 Info : .32
Signal #2 Phase: db-17
Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\06-30-23\
Data File : 3G149276.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jun 2023 17:03
Operator : AH//PR/KM
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 17:14:52 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:43:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.134	3.161	1112.6E6	983.6E6	111.526	115.090
2)alpha-BHC	3.894	3.748	1668.7E6	1276.5E6	114.199	111.127
3)gamma-BHC	4.249	4.153	1469.6E6	489.4E6	115.080	47.838 #
4)beta-BHC	4.905	4.153	608.0E6	489.4E6	109.394	106.739
5)Heptachlor	4.445	4.419	1303.1E6	1035.0E6	104.946	107.873
6)delta-BHC	5.158	4.508	1365.4E6	1121.5E6	113.193	114.452
7)Aldrin	4.708	4.812	1342.2E6	4656629	111.814	0.494 #
8)Heptachlor Epoxid	5.397	5.282	3317637	934.0E6	0.304	110.380 #
9)y-chlordane	5.647	5.441	1204.6E6	924.8E6	112.302m	110.975
10)a-chlordane	5.765	5.598	1186.8E6	898.4E6	112.640	110.860m
11)Endosulfan I	5.610f	5.640f	1097.8E6	862.8E6	111.267m	111.138
12)p,p'-DDE	5.765	5.826	1186.8E6	904.0E6	113.998	112.542
13)Dieldrin	5.961	5.947	1268.0E6	967.0E6	115.150m	114.131
14)Endrin	6.164	6.387	1024.4E6	761.4E6	112.220m	111.555
15)p,p'-DDD	6.537	6.387	936.7E6	761.4E6	110.277m	112.591
16)Endosulfan II	6.703	6.569	879.6E6	7864855	95.658	1.105 #
17)p,p'-DDT	6.703	6.696	853.0E6	731.2E6	119.154m	119.646m
18)Endrin Aldehyde	7.042	6.825	661.8E6	586.6E6	105.695	109.564
19)Endosulfan Sulfat	7.350	6.948	905.6E6	676.4E6	108.956	109.544
20)Methoxychlor	7.285	7.573	427.0E6	395.5E6	110.442m	118.266
21)Endrin Ketone	7.760	7.755	1083.8E6	888.4E6	114.205m	116.274
22)DCB-Surrogate	8.524	9.005	968.1E6	713.4E6	103.146m	110.379

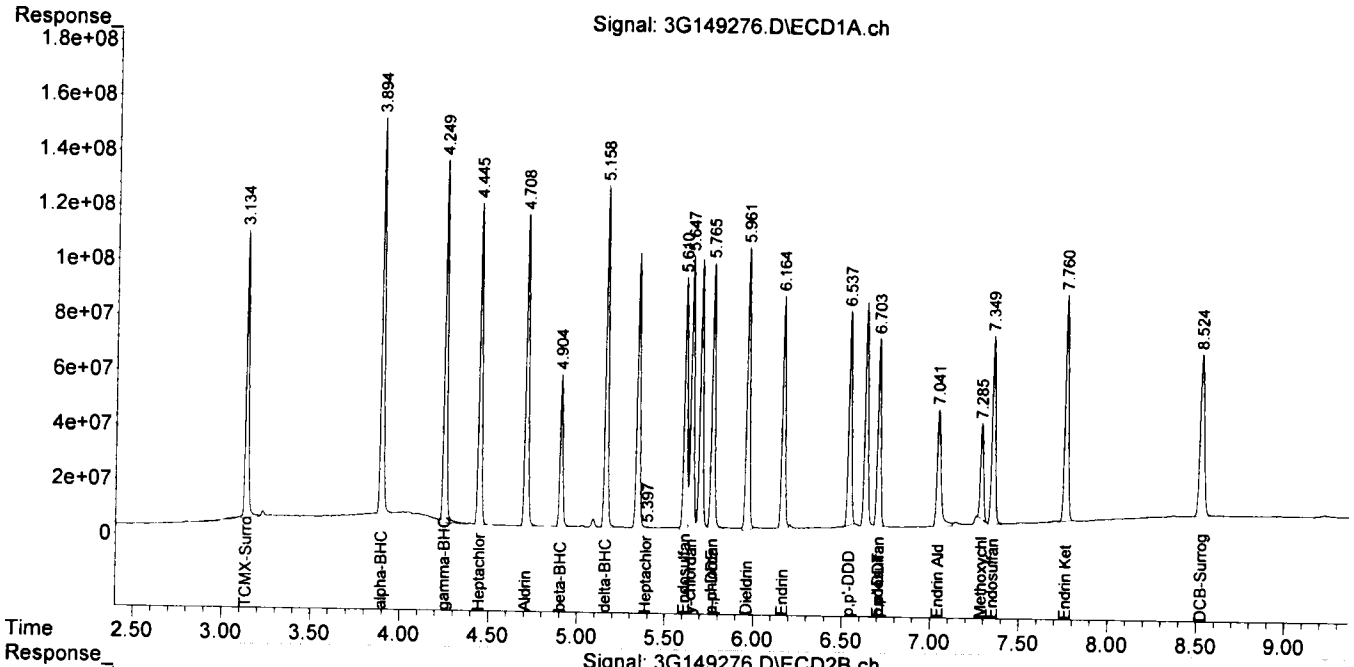
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

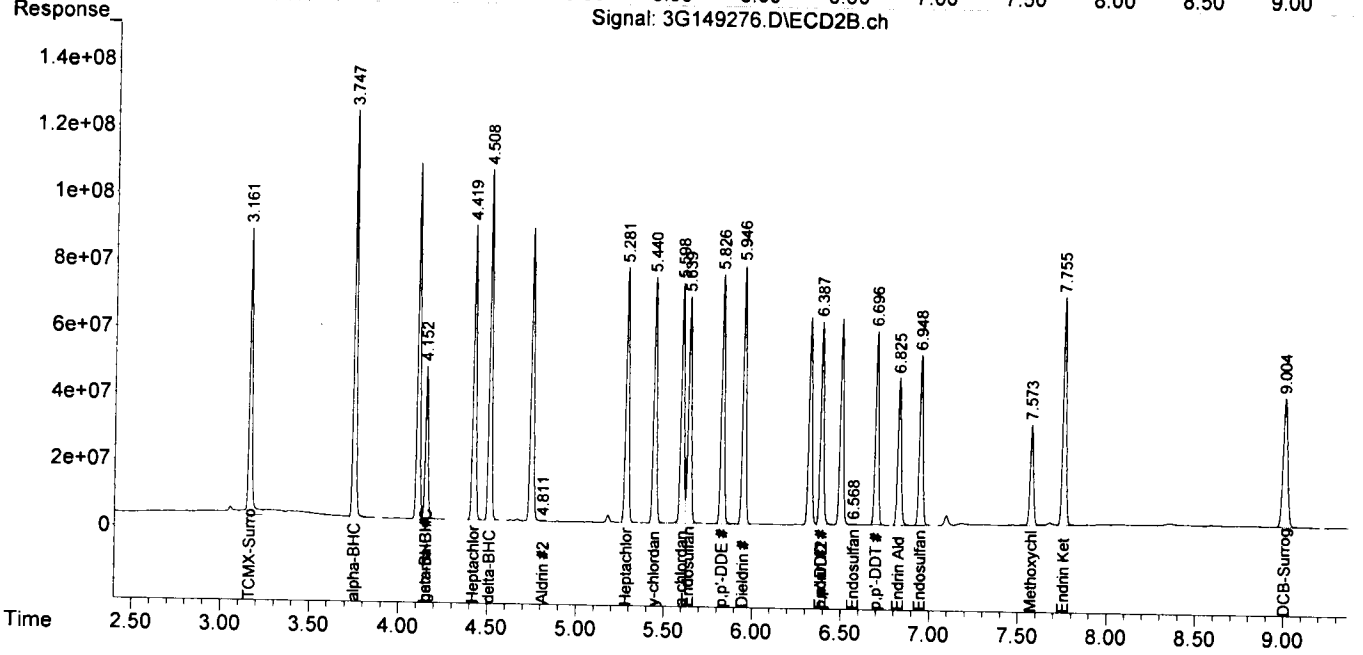
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\06-30-23\
Data File : 3G149276.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jun 2023 17:03
Operator : AH//PR/KM
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 17:14:52 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:43:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P
Signal #1 Info : .32
Signal #2 Phase: db-17
Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\07-06-23\
Data File : 3G149354.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jul 2023 09:31
Operator : AH//PR/KM
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 06 09:42:52 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Tue Jul 04 17:33:31 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.141	3.175	1030.5E6	910.7E6	93.003m	96.981
2)alpha-BHC	3.901	3.760	1464.1E6	1206.0E6	93.680m	97.302
3)gamma-BHC	4.256	4.118	1378.9E6	1085.7E6	97.494	96.745
4)beta-BHC	4.912	4.166	577.3E6	465.9E6	92.815	91.551
5)Heptachlor	4.452	4.433	1266.5E6	954.3E6	94.463	92.186
6)delta-BHC	5.165	4.521	1268.3E6	1065.9E6	95.863	98.184
7)Aldrin	4.715	4.758	1264.6E6	1004.8E6	95.353	96.767
8)Heptachlor Epoxid	5.346	5.295	1122.6E6	889.6E6	92.357	94.874
9)y-chlordane	5.655	5.454	1133.7E6	880.0E6	93.192	95.306
10)a-chlordane	5.706	5.612	1106.1E6	855.7E6	92.171	94.436
11)Endosulfan I	5.618	5.653	1015.1E6	817.0E6	92.821	94.458
12)p,p'-DDE	5.773	5.839	1112.0E6	862.4E6	95.730	97.122
13)Dieldrin	5.969	5.960	1166.8E6	919.8E6	95.641	97.152
14)Endrin	6.172	6.335	935.0E6	728.9E6	88.609m	89.088
15)p,p'-DDD	6.545	6.401	930.7E6	743.3E6	100.353	97.945
16)Endosulfan II	6.638	6.510	959.2E6	787.0E6	92.450	94.053
17)p,p'-DDT	6.710	6.711	894.4E6	678.1E6	99.877	91.364
18)Endrin Aldehyde	7.049	6.839	666.2E6	579.2E6	101.807	94.732
19)Endosulfan Sulfat	7.357	6.961	880.5E6	645.4E6	95.501	95.203
20)Methoxychlor	7.291	7.587	528.1E6	353.6E6	105.446	87.341
21)Endrin Ketone	7.768	7.769	1026.2E6	858.1E6	94.844	94.308
22)DCB-Surrogate	8.533	9.018	922.2E6	696.7E6	87.448	89.483

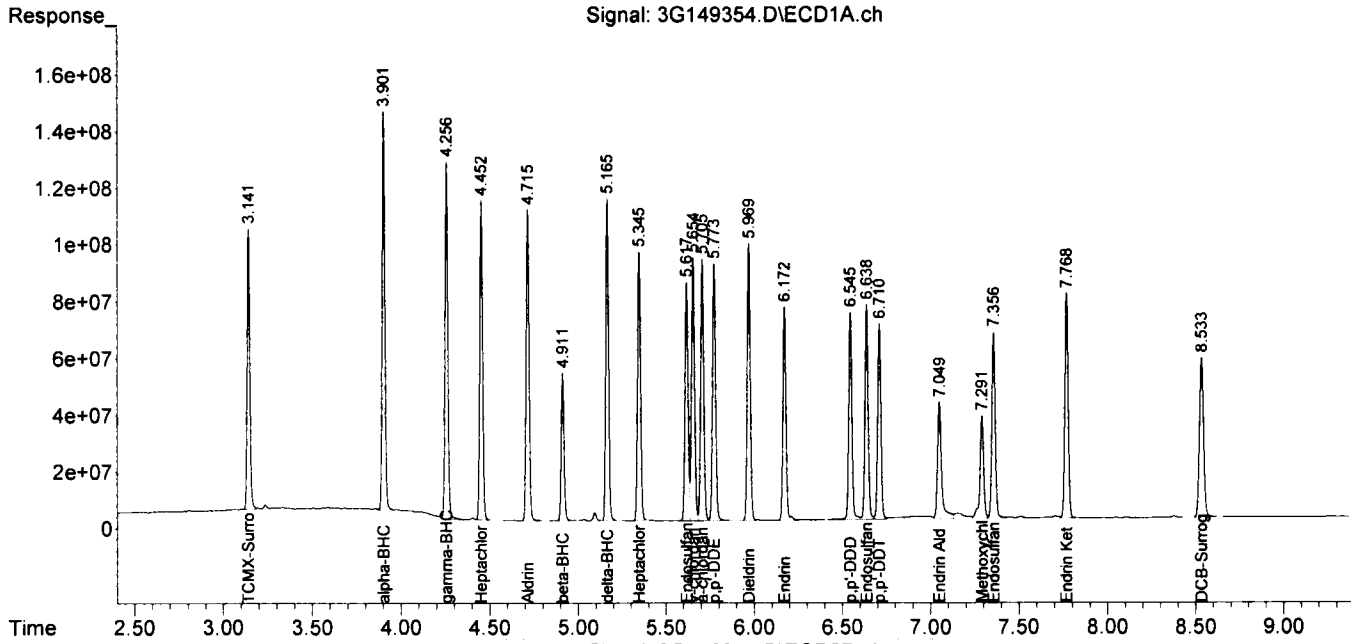
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

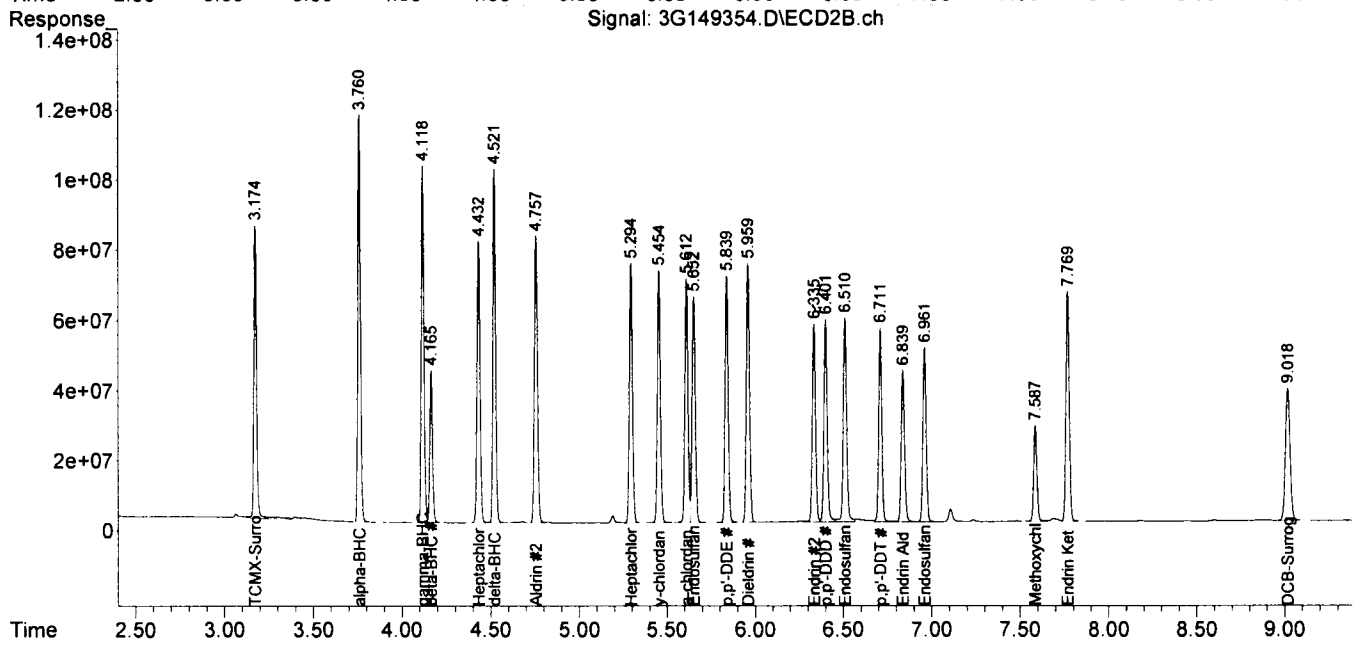
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\07-06-23\
Data File : 3G149354.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jul 2023 09:31
Operator : AH//PR/KM
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 06 09:42:52 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Tue Jul 04 17:33:31 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\07-06-23\
Data File : 3G149375.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jul 2023 13:47
Operator : AH//PR/KM
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 06 14:01:43 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Tue Jul 04 17:33:31 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.137	3.163	1110.2E6	876.7E6	100.194m	93.360
2)alpha-BHC	3.896	3.748	1583.3E6	1244.4E6	101.305	100.403
3)gamma-BHC	4.250	4.106	1434.1E6	1119.5E6	101.399m	99.755
4)beta-BHC	4.906	4.154	614.9E6	474.8E6	98.873	93.295
5)Heptachlor	4.447	4.420	1395.8E6	1007.9E6	104.104	97.365
6)delta-BHC	5.159	4.509	1345.4E6	1114.0E6	101.695	102.617
7)Aldrin	4.710	4.745	1359.8E6	1049.3E6	102.534	101.055
8)Heptachlor Epoxid	5.340	5.282	1190.0E6	928.9E6	97.903	99.064
9)y-chlordane	5.648	5.441	1213.1E6	919.7E6	99.717	99.609
10)a-chlordane	5.700	5.599	1182.2E6	898.4E6	98.514	99.142
11)Endosulfan I	5.611	5.640	1094.6E6	860.2E6	100.087	99.448
12)p,p'-DDE	5.766	5.826	1188.8E6	906.5E6	102.341	102.092
13)Dieldrin	5.962	5.947	1248.5E6	972.5E6	102.342	102.726
14)Endrin	6.166	6.322	1148.2E6	881.9E6	108.819	107.793
15)p,p'-DDD	6.538	6.387	976.5E6	765.6E6	105.289	100.877
16)Endosulfan II	6.631	6.497	996.6E6	797.9E6	96.052	95.353
17)p,p'-DDT	6.703	6.697	974.2E6	757.1E6	108.786	102.005
18)Endrin Aldehyde	7.043	6.826	625.2E6	579.9E6	95.535	94.847
19)Endosulfan Sulfat	7.350	6.949	919.9E6	720.9E6	99.777	106.343
20)Methoxychlor	7.285	7.575	565.7E6	400.9E6	112.966m	99.020
21)Endrin Ketone	7.761	7.757	1072.5E6	888.8E6	99.116	97.688
22)DCB-Surrogate	8.525	9.005	1001.7E6	730.7E6	94.984	93.843m

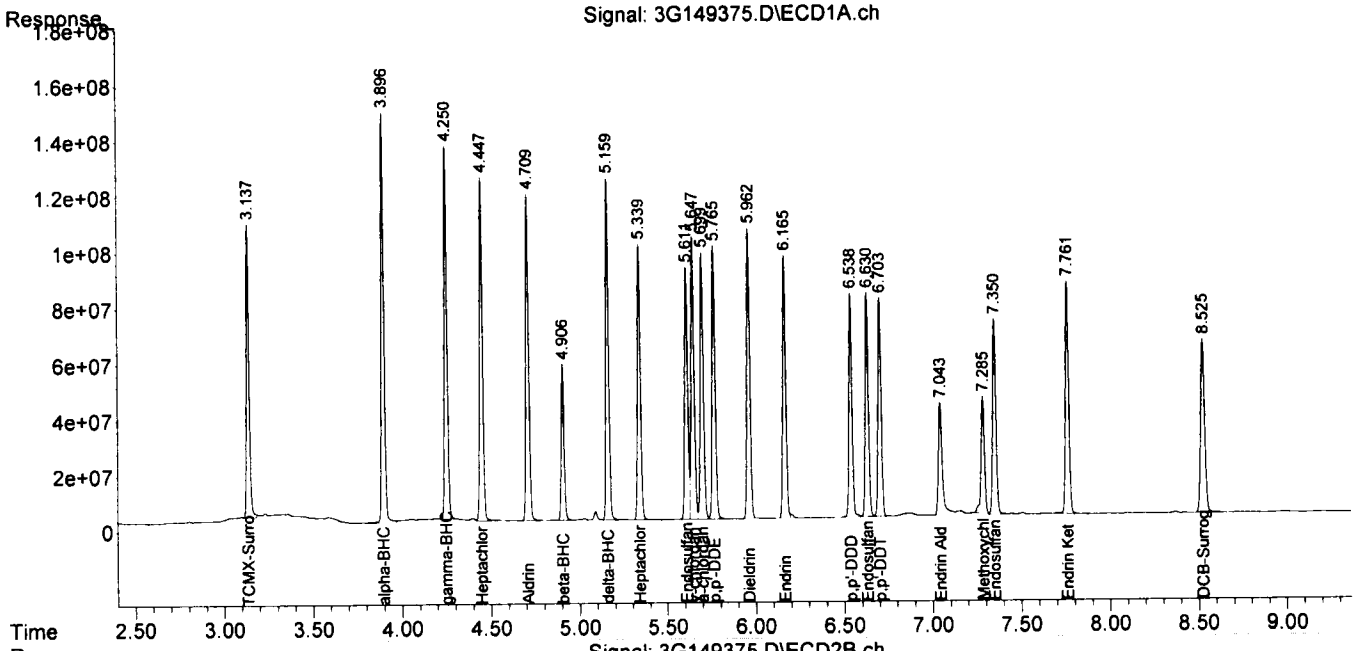
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

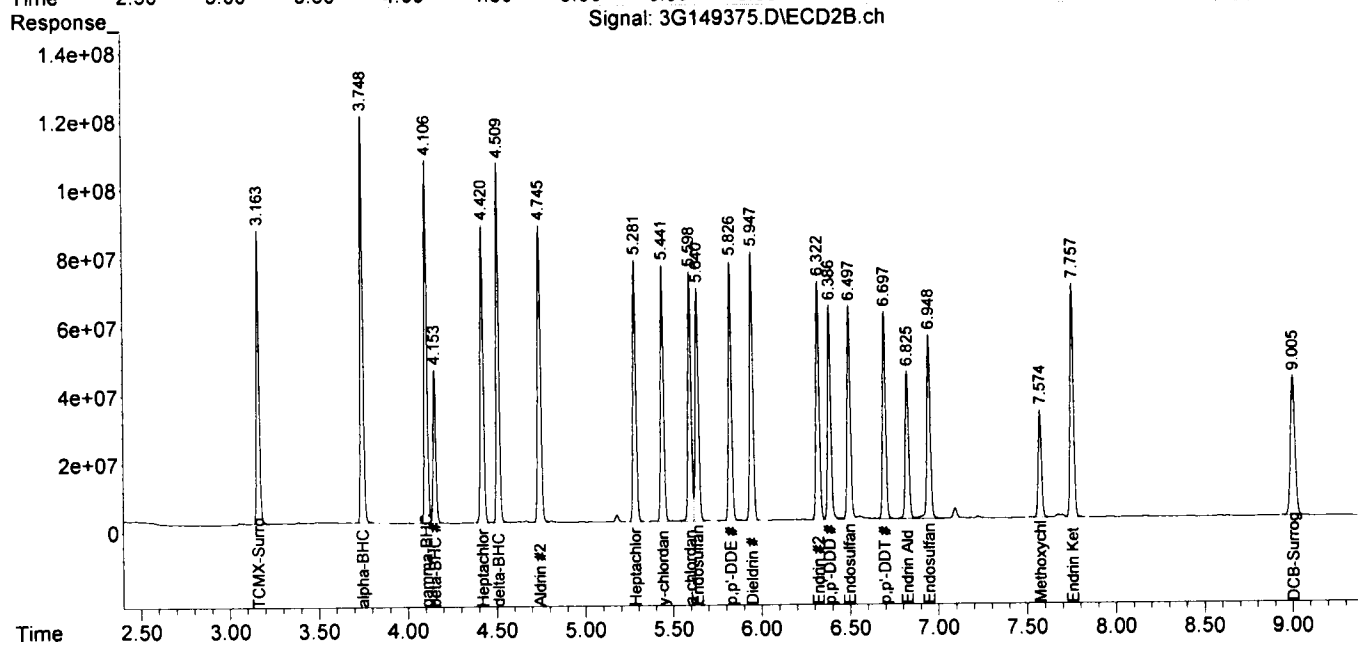
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\07-06-23\
Data File : 3G149375.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jul 2023 13:47
Operator : AH//PR/KM
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 06 14:01:43 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Tue Jul 04 17:33:31 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P
Signal #1 Info : .32
Signal #2 Phase: db-17
Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\07-11-23\
Data File : 6G178160.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Jul 2023 14:15
Operator : AH/PR/KM
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 11 15:15:38 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Jul 05 11:39:32 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.090	3.226	996.4E6	837.9E6	105.760	106.372
2)alpha-BHC	3.839	3.816	1469.9E6	1103.7E6	109.979	102.659
3)gamma-BHC	4.190	4.176	1275.9E6	966.6E6	106.214	99.380
4)beta-BHC	4.842	4.224	512.4E6	409.6E6	95.764	91.616
5)Heptachlor	4.381	4.492	1106.5E6	822.4E6	102.548	103.769
6)delta-BHC	5.091	4.582	1152.4E6	970.6E6	100.797	100.731
7)Aldrin	4.640	4.820	1136.5E6	902.5E6	101.812	100.541
8)Heptachlor Epoxid	5.264	5.357	1005.4E6	811.2E6	101.084	101.779
9)y-chlordane	5.571	5.518	992.3E6	810.9E6	100.092	100.860
10)a-chlordane	5.622	5.676	968.7E6	769.1E6	98.924	97.354
11)Endosulfan I	5.533	5.718	902.0E6	737.1E6	99.887	98.591
12)p,p'-DDE	5.688	5.900	997.0E6	798.6E6	102.944	102.047
13)Dieldrin	5.881	6.025	1049.6E6	851.0E6	103.449	103.774
14)Endrin	6.083	6.401	965.8E6	739.4E6	105.673	103.784
15)p,p'-DDD	6.455	6.462	878.9E6	713.4E6	110.679	109.723
16)Endosulfan II	6.546	6.576	848.4E6	699.6E6	101.095	101.850
17)p,p'-DDT	6.617	6.773	620.7E6	501.3E6	88.290	96.682
18)Endrin Aldehyde	6.954	6.905	563.6E6	514.7E6	103.313	101.980
19)Endosulfan Sulfat	7.260	7.027	798.7E6	645.1E6	104.713	104.725
20)Methoxychlor	7.194	7.648	353.1E6	290.5E6	88.121m	105.423
21)Endrin Ketone	7.668	7.838	919.0E6	827.0E6	104.349	111.968
22)DCB-Surrogate	8.408	9.110	781.0E6	623.0E6	98.623	96.448

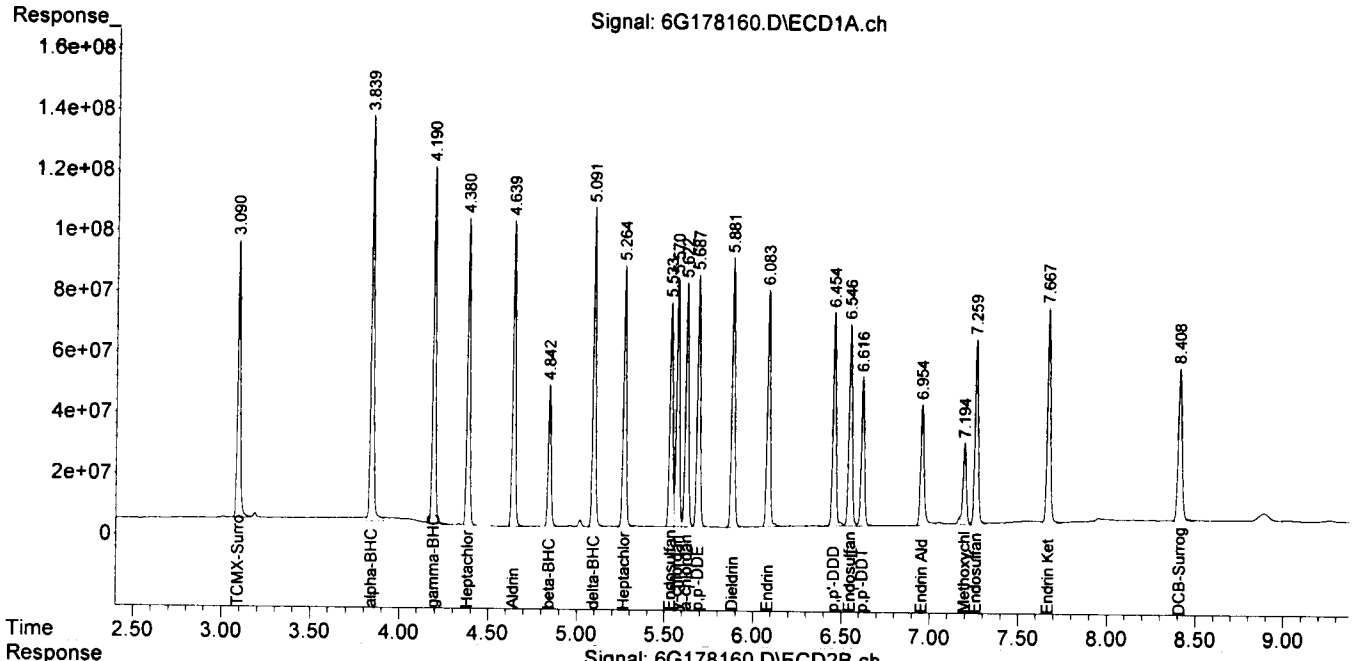
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

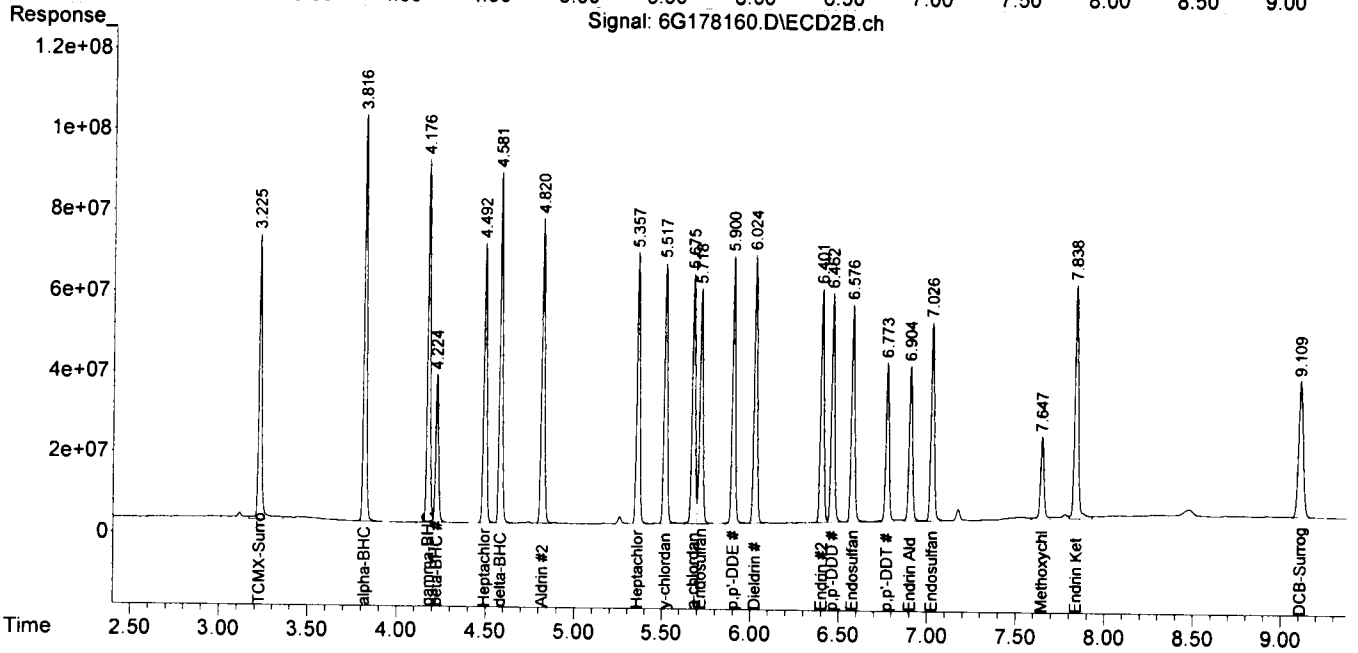
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\07-11-23\
Data File : 6G178160.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Jul 2023 14:15
Operator : AH/PR/KM
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 11 15:15:38 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Jul 05 11:39:32 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P
Signal #1 Info : .32
Signal #2 Phase: db-17
Signal #2 Info : .32





Data Path : G:\Gcdata\2023\GC_6\Data\07-11-23\
Data File : 6G178166.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Jul 2023 17:50
Operator : AH/PR/KM
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 11 18:01:21 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Jul 05 11:39:32 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.093	3.231	1017.5E6	803.2E6	108.004	101.966
2)alpha-BHC	3.840	3.820	1567.9E6	1138.2E6	117.312	105.864
3)gamma-BHC	4.190	4.181	1340.4E6	1028.7E6	111.583	105.765
4)beta-BHC	4.841	4.229	542.3E6	444.8E6	101.344	99.506
5)Heptachlor	4.381	4.497	1139.6E6	849.4E6	105.617	107.166
6)delta-BHC	5.090	4.586	1239.7E6	1007.7E6	108.429	104.588
7)Aldrin	4.639	4.824	1225.8E6	969.3E6	109.816	107.980
8)Heptachlor Epoxid	5.263	5.361	1061.7E6	842.9E6	106.745	105.746
9)y-chlordane	5.570	5.521	1064.3E6	848.7E6	107.359	105.565
10)a-chlordane	5.621	5.678	1045.5E6	828.8E6	106.768	104.914
11)Endosulfan I	5.532	5.721	969.0E6	801.5E6	107.300	107.198
12)p,p'-DDE	5.686	5.903	1063.2E6	835.8E6	109.777	106.797
13)Dieldrin	5.880	6.027	1116.9E6	902.0E6	110.083	109.987
14)Endrin	6.082	6.404	1009.4E6	785.1E6	110.443	110.198
15)p,p'-DDD	6.454	6.464	914.8E6	748.7E6	115.190	115.152
16)Endosulfan II	6.545	6.579	885.8E6	738.8E6	105.552	107.557
17)p,p'-DDT	6.616	6.775	637.6E6	494.3E6	90.687	95.333
18)Endrin Aldehyde	6.952	6.907	572.4E6	530.9E6	104.922	105.193
19)Endosulfan Sulfat	7.258	7.029	819.7E6	662.4E6	107.461	107.534
20)Methoxychlor	7.192	7.650	342.4E6	288.5E6	85.441m	104.713
21)Endrin Ketone	7.667	7.839	930.6E6	847.6E6	105.673	114.764
22)DCB-Surrogate	8.406	9.112	803.9E6	674.1E6	101.519	104.361

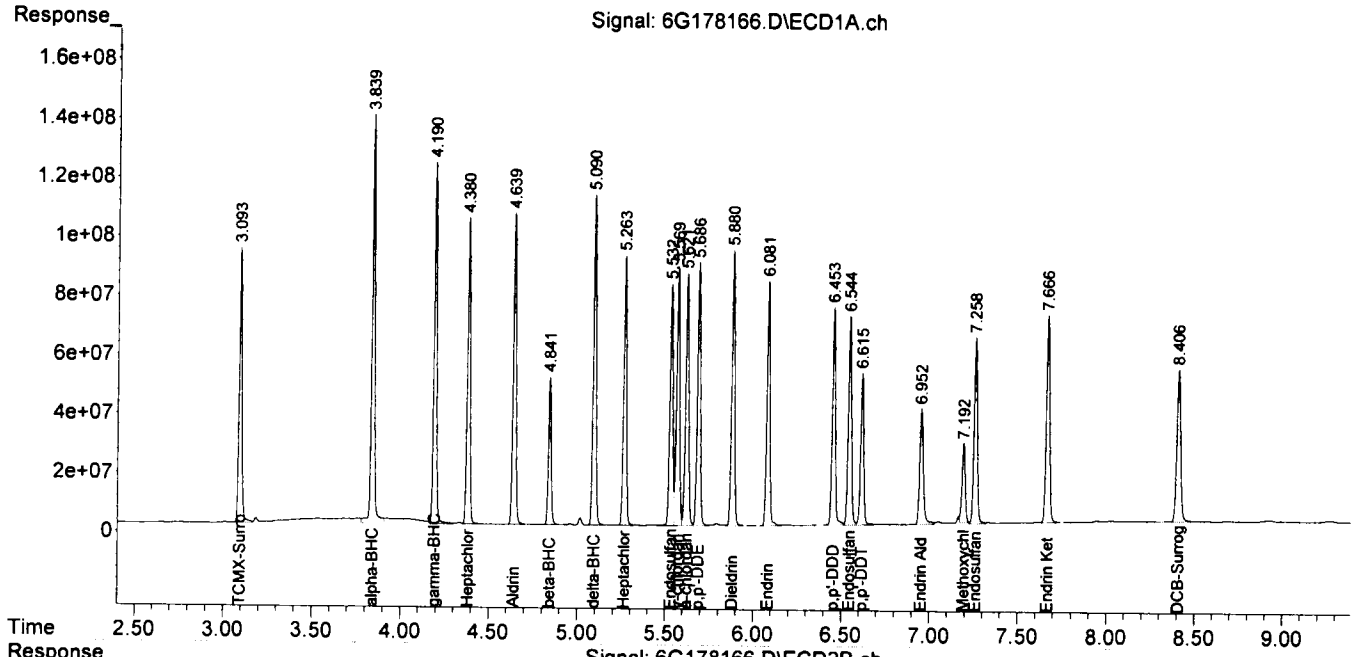
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

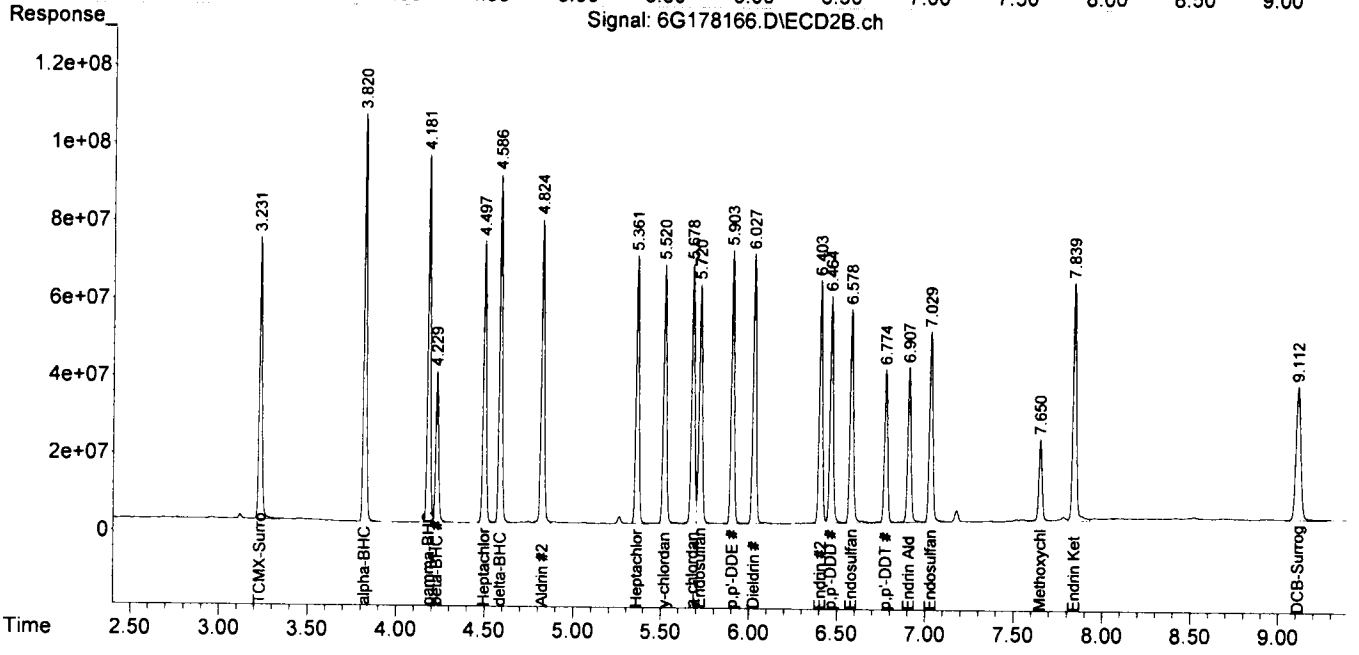
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\07-11-23\
Data File : 6G178166.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Jul 2023 17:50
Operator : AH/PR/KM
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 11 18:01:21 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Jul 05 11:39:32 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P
Signal #1 Info : .32
Signal #2 Phase: db-17
Signal #2 Info : .32





Data Path : G:\Gcdata\2023\GC_6\Data\07-19-23\
Data File : 6G178539.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jul 2023 08:38
Operator : AH/PR/KM
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 19 08:57:21 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Jul 05 11:39:32 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.094	3.231	941.6E6	744.3E6	99.943	94.490
2)alpha-BHC	3.841	3.821	1300.5E6	1027.9E6	97.303	95.605
3)gamma-BHC	4.191	4.181	1177.2E6	930.9E6	97.996	95.714
4)beta-BHC	4.842	4.230	481.8E6	401.2E6	90.036	89.753
5)Heptachlor	4.382	4.497	925.3E6	678.1E6	85.754	85.558
6)delta-BHC	5.091	4.587	1111.1E6	910.9E6	97.180	94.541
7)Aldrin	4.641	4.825	1101.8E6	871.8E6	98.703	97.116
8)Heptachlor Epoxid	5.264	5.361	947.3E6	763.0E6	95.247	95.730
9)y-chlordane	5.570	5.522	955.9E6	761.0E6	96.423	94.664
10)a-chlordane	5.621	5.679	936.3E6	739.1E6	95.615	93.564
11)Endosulfan I	5.532	5.721	856.2E6	707.3E6	94.810	94.600
12)p,p'-DDE	5.686	5.903	939.8E6	743.4E6	97.034	94.993
13)Dieldrin	5.880	6.027	996.5E6	796.8E6	98.213	97.169
14)Endrin	6.081	6.404	917.4E6	702.0E6	100.384	98.535
15)p,p'-DDD	6.451	6.466	768.2E6	616.9E6	96.734	94.889
16)Endosulfan II	6.543	6.579	785.7E6	632.3E6	93.614	92.061
17)p,p'-DDT	6.614	6.775	587.1E6	451.6E6	83.503	87.088
18)Endrin Aldehyde	6.950	6.907	508.3E6	463.1E6	93.174	91.759
19)Endosulfan Sulfat	7.255	7.030	755.9E6	591.6E6	99.099	96.048
20)Methoxychlor	7.189	7.650	345.9E6	237.0E6	86.306m	86.030
21)Endrin Ketone	7.664	7.840	879.0E6	711.6E6	99.806	96.342
22)DCB-Surrogate	8.403	9.110	806.9E6	583.9E6	101.896	90.409

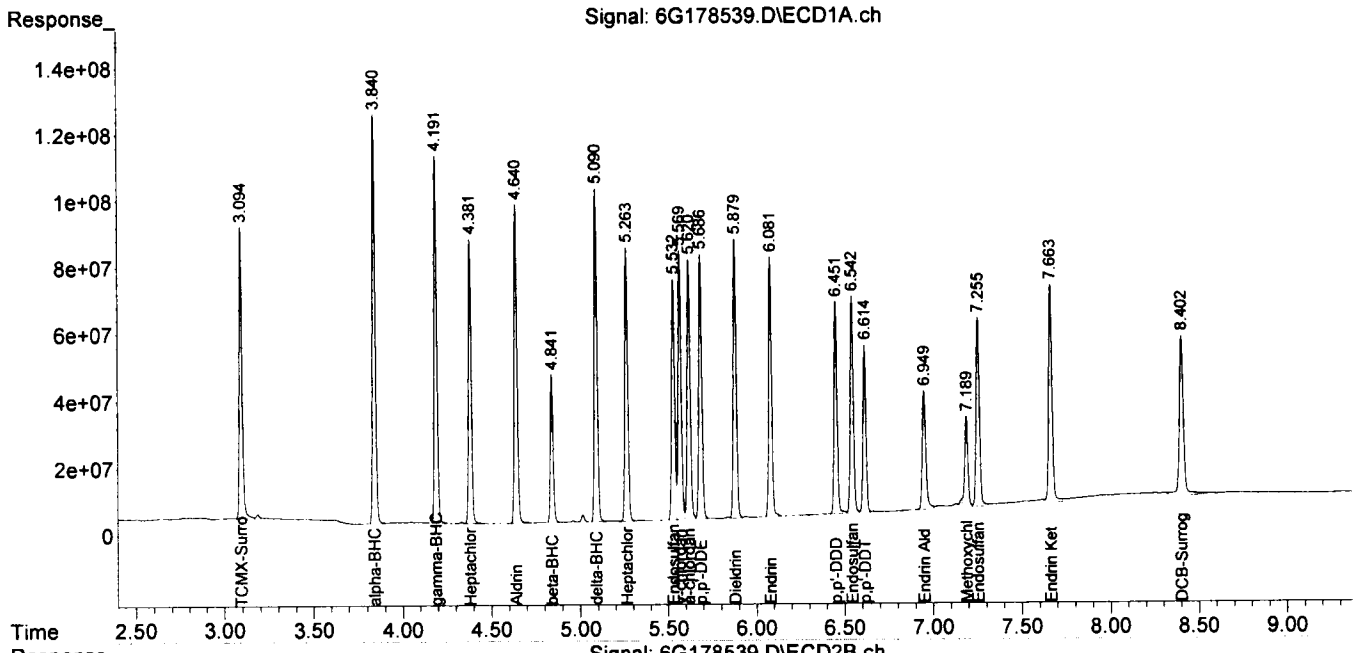
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

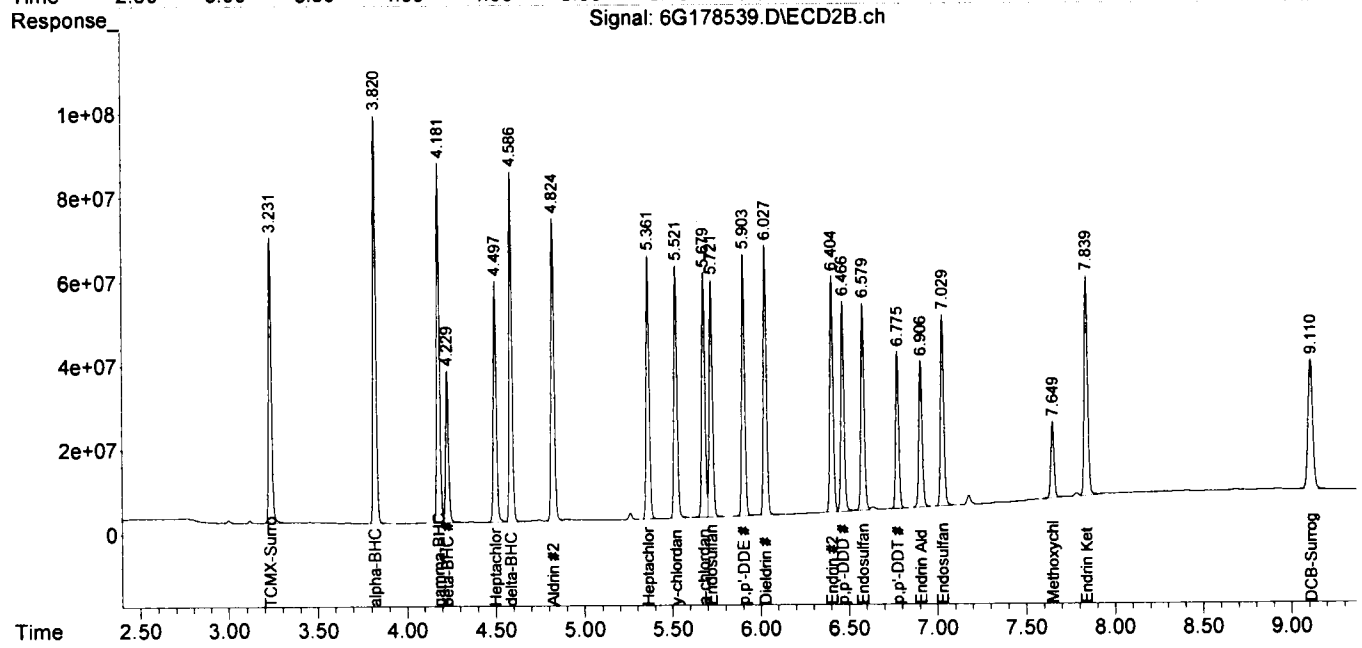
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\07-19-23\
Data File : 6G178539.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jul 2023 08:38
Operator : AH/PR/KM
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 19 08:57:21 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Jul 05 11:39:32 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P
Signal #1 Info : .32
Signal #2 Phase: db-17
Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\07-19-23\
Data File : 6G178553.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jul 2023 12:39
Operator : AH/PR/KM
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 19 13:12:46 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Jul 05 11:39:32 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.093	3.232	940.9E6	777.6E6	99.869m	98.723
2)alpha-BHC	3.840	3.821	1365.8E6	1046.7E6	102.189	97.356
3)gamma-BHC	4.190	4.181	1250.0E6	955.1E6	104.052	98.204
4)beta-BHC	4.840	4.229	506.8E6	417.4E6	94.712	93.371
5)Heptachlor	4.380	4.496	1051.8E6	797.5E6	97.480	100.620
6)delta-BHC	5.089	4.587	1163.4E6	934.1E6	101.762	96.943
7)Aldrin	4.639	4.824	1143.6E6	900.7E6	102.454	100.337
8)Heptachlor Epoxid	5.262	5.361	985.5E6	791.9E6	99.083	99.352
9)y-chlordane	5.568	5.521	1012.1E6	793.6E6	102.088	98.707
10)a-chlordane	5.618	5.678	995.6E6	770.3E6	101.670	97.514
11)Endosulfan I	5.530	5.721	905.5E6	743.9E6	100.274	99.496
12)p,p'-DDE	5.684	5.903	998.8E6	785.7E6	103.128	100.394
13)Dieldrin	5.878	6.028	1047.3E6	836.0E6	103.222	101.942
14)Endrin	6.080	6.403	959.3E6	727.1E6	104.961	102.066
15)p,p'-DDD	6.450	6.465	829.2E6	657.2E6	104.415	101.091
16)Endosulfan II	6.542	6.579	828.4E6	659.5E6	98.711	96.010
17)p,p'-DDT	6.613	6.775	694.0E6	535.9E6	98.706	103.349
18)Endrin Aldehyde	6.948	6.906	542.7E6	501.3E6	99.481	99.323
19)Endosulfan Sulfat	7.253	7.029	792.1E6	610.3E6	103.840	99.079
20)Methoxychlor	7.187	7.648	415.0E6	276.5E6	103.564m	100.345
21)Endrin Ketone	7.662	7.838	894.8E6	754.2E6	101.603	102.116
22)DCB-Surrogate	8.400	9.108	784.2E6	624.3E6	99.033	96.656

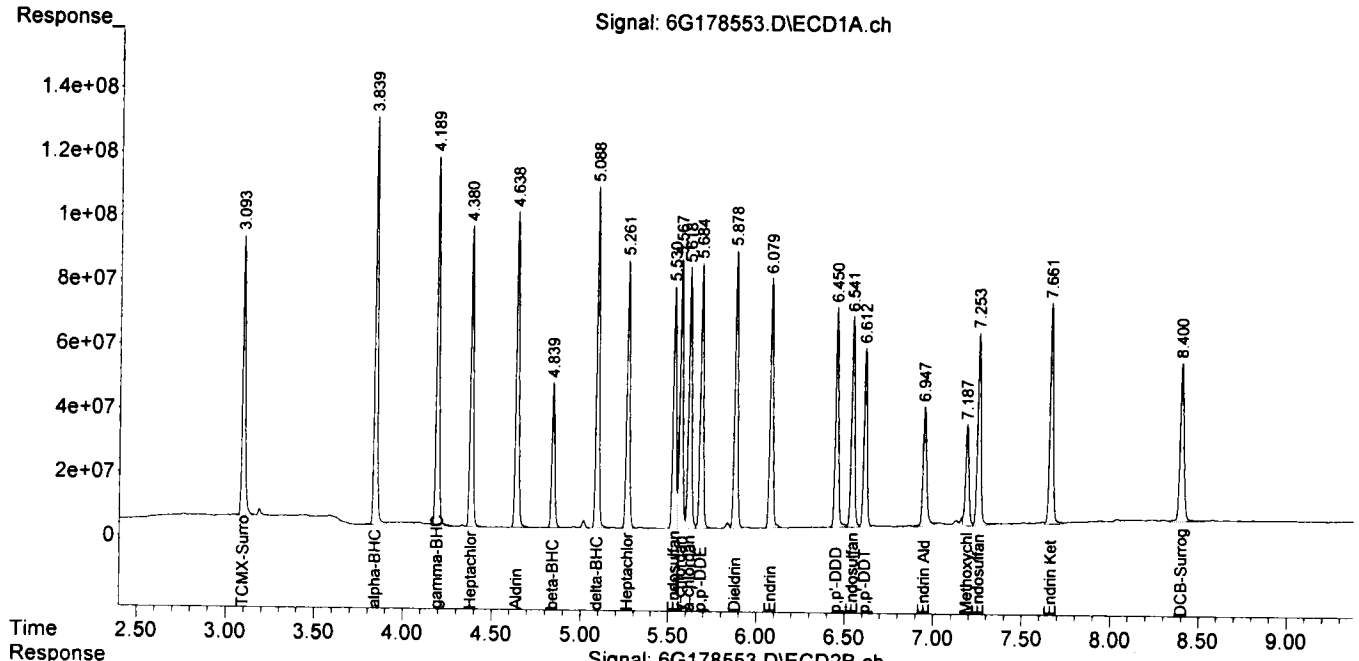
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

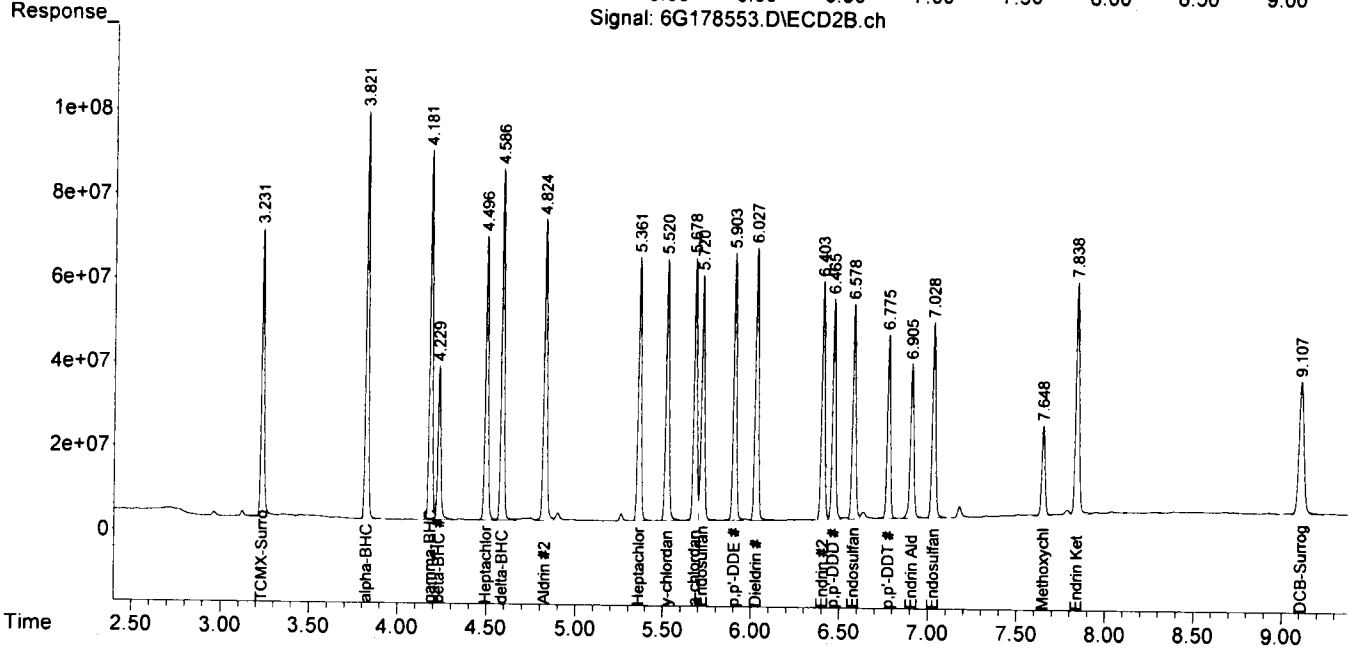
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\07-19-23\
Data File : 6G178553.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jul 2023 12:39
Operator : AH/PR/KM
Sample : CAL PEST@100PPB
Misc : S,PEST:0.5
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 19 13:12:46 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Jul 05 11:39:32 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P
Signal #1 Info : .32
Signal #2 Phase: db-17
Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0602-23\
Data File : 3G148103.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 15:27
Operator : AH//PR/KM
Sample : CAL EVAL
Misc : S,PEST
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 09:24:12 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.171	3.194	1241.3E6	893.1E6	126.843	99.634
12)p,p'-DDE	5.831	5.872	5495144	3216347	0.543m	0.367 #
14)Endrin	6.226	6.370	503.5E6	361.4E6	79.731m	61.779m
15)p,p'-DDD	6.609	6.436	7983641	8478268	0.862m	1.098m#
17)p,p'-DDT	6.774	6.746	895.9E6	711.1E6	175.263	122.393 #
18)Endrin Aldehyde	7.115	6.875	6650542	6414666	1.098m	0.988m
21)Endrin Ketone	7.830	7.808	6606269	7109445	0.726m	0.799m
22)DCB-Surrogate	8.609	9.070	980.1E6	661.1E6	105.998	86.160m

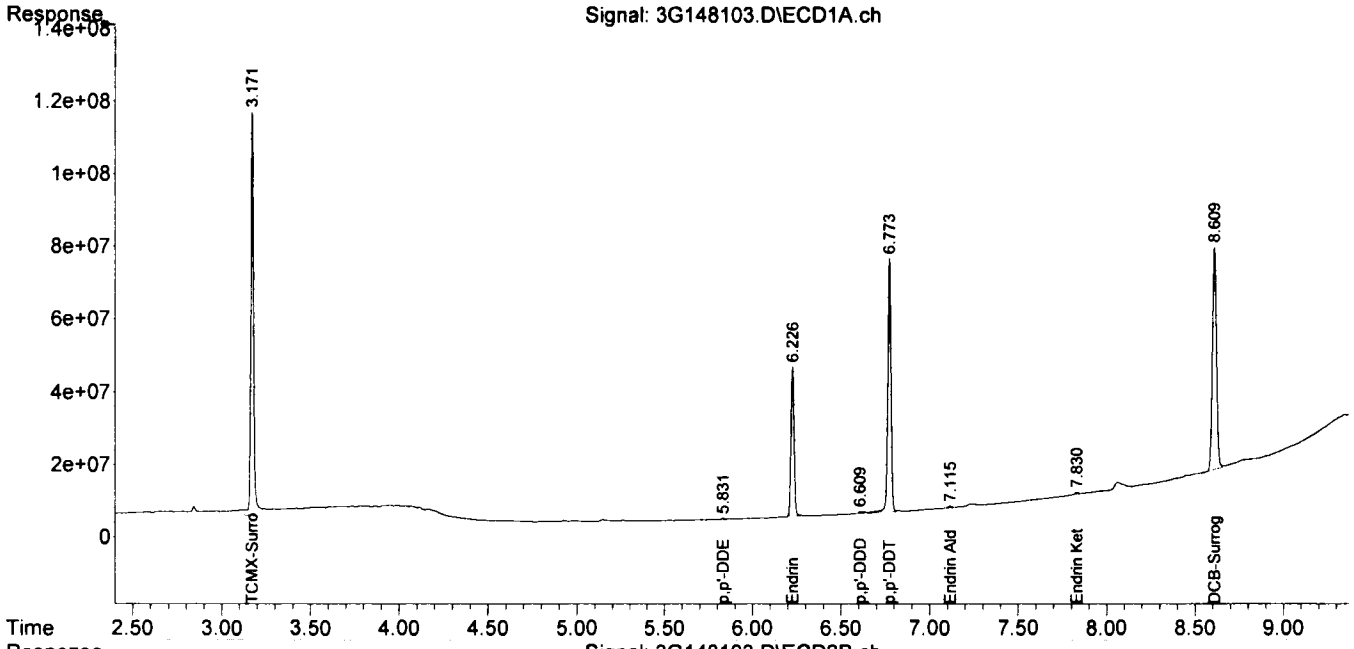
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

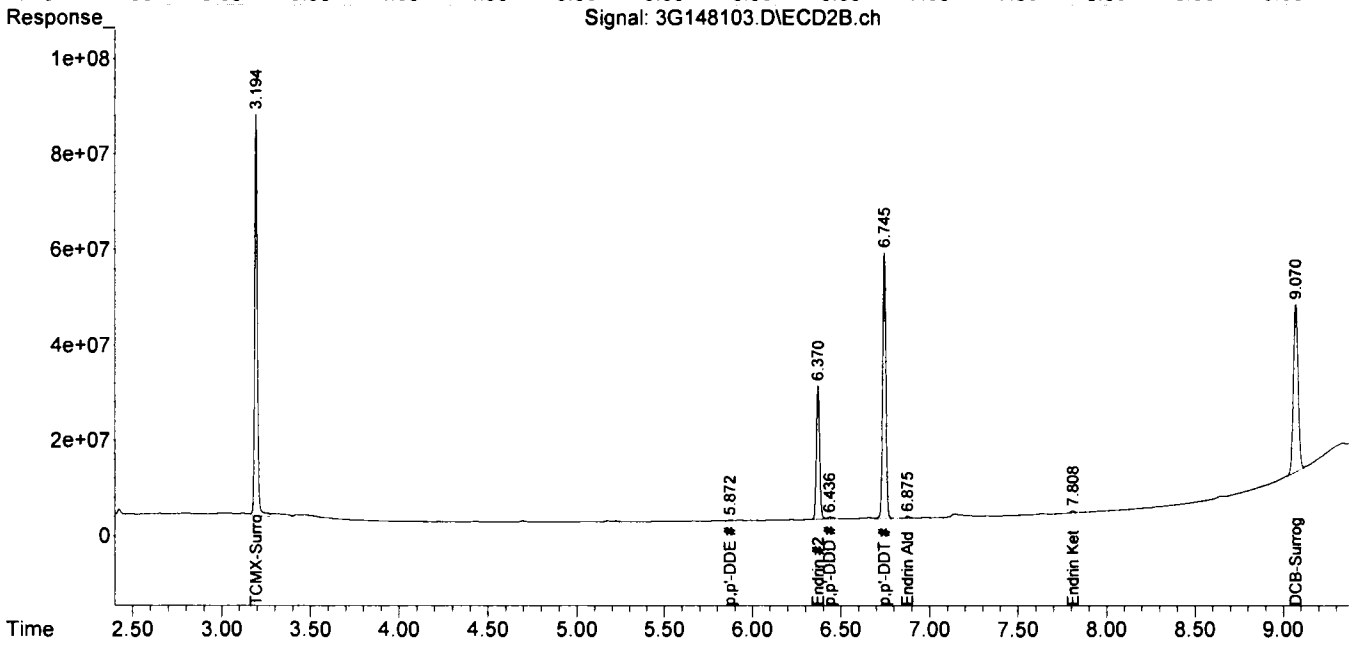
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0602-23\
Data File : 3G148103.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 02 Jun 2023 15:27
Operator : AH//PR/KM
Sample : CAL EVAL
Misc : S,PEST
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 05 09:24:12 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Sun Jun 04 08:56:41 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2023\GC_6\Data\0614-23\
Data File : 6G177184.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 10:13
Operator : AH/PR/KM
Sample : EVAL (Sig #1); CAL EVAL (Sig #2)
Misc : S,PEST
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 10:30:23 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Jun 15 16:40:36 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
	Target Compounds						
1)	TCMX-Surrogate	3.100	3.232	1114.1E6	864.8E6	118.253	109.788
12)	p,p'-DDE	5.704	5.909	5438233	2475741	0.562	0.316m#
14)	Endrin	6.098	6.408	519.0E6	468.2E6	56.783	65.716m
15)	p,p'-DDD	6.471	6.466	10263293	7749027	1.292m	1.192m
17)	p,p'-DDT	6.635	6.778	892.4E6	676.0E6	126.933	115.077m
18)	Endrin Aldehyde	6.971	6.912	331175	1369711	0.061	0.271m#
21)	Endrin Ketone	7.683	7.846	3701792	7361732	0.420m	0.997m#
22)	DCB-Surrogate	8.427	9.116	857.5E6	721.4E6	108.281m	111.691

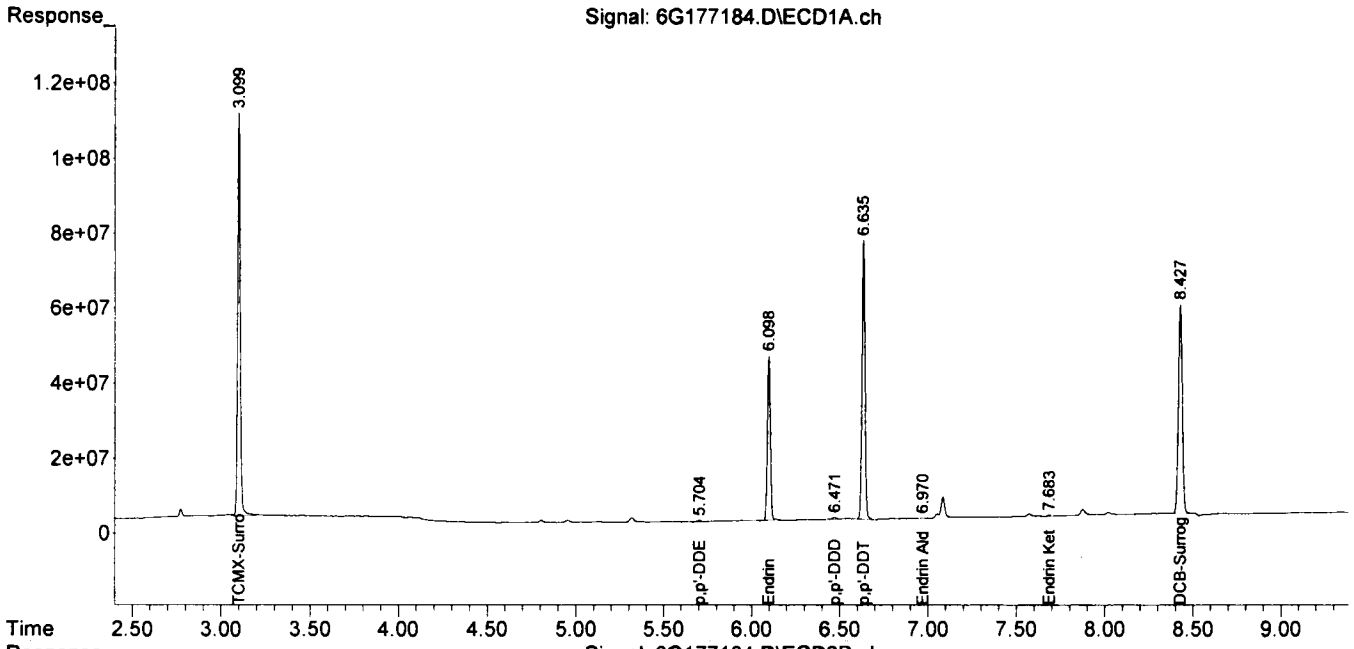
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

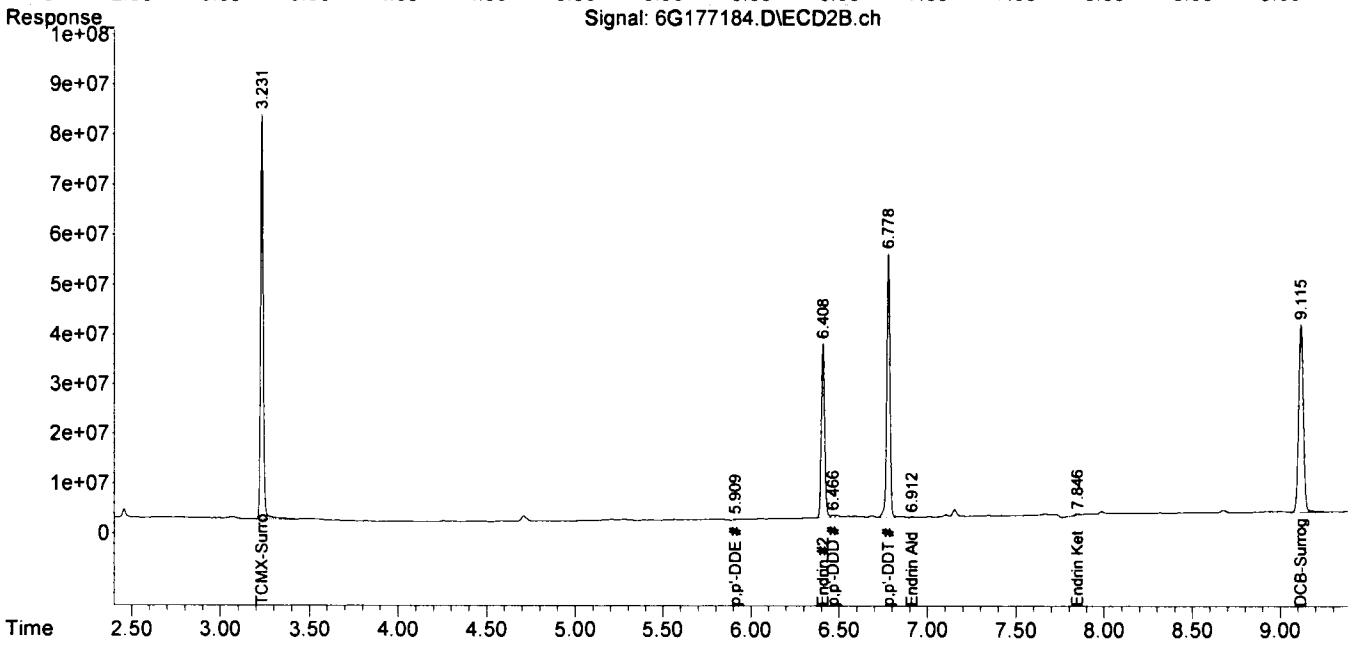
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\0614-23\
Data File : 6G177184.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2023 10:13
Operator : AH/PR/KM
Sample : EVAL (Sig #1); CAL EVAL (Sig #2)
Misc : S,PEST
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 20 10:30:23 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Thu Jun 15 16:40:36 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\06-30-23\
Data File : 3G149231.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jun 2023 07:21
Operator : AH//PR/KM
Sample : CAL EVAL
Misc : S,PEST
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 08:34:51 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:43:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
	Target Compounds						
1)	TCMX-Surrogate	3.152	3.176	1031.2E6	820.9E6	103.363	96.052
12)	p,p'-DDE	5.787	5.843	7887096	5777236	0.758	0.719
14)	Endrin	6.188	6.340	634.3E6	496.4E6	69.481	72.724
15)	p,p'-DDD	6.562	6.429	6904756	2123361	0.813m	0.314m#
17)	p,p'-DDT	6.727	6.714	853.6E6	598.5E6	119.234	97.937m
18)	Endrin Aldehyde	7.067	6.842	17855660	18733532	2.852	3.499m
21)	Endrin Ketone	7.783	7.773	16316392	14859271	1.719m	1.945
22)	DCB-Surrogate	8.551	9.024	816.9E6	610.4E6	87.043	94.450

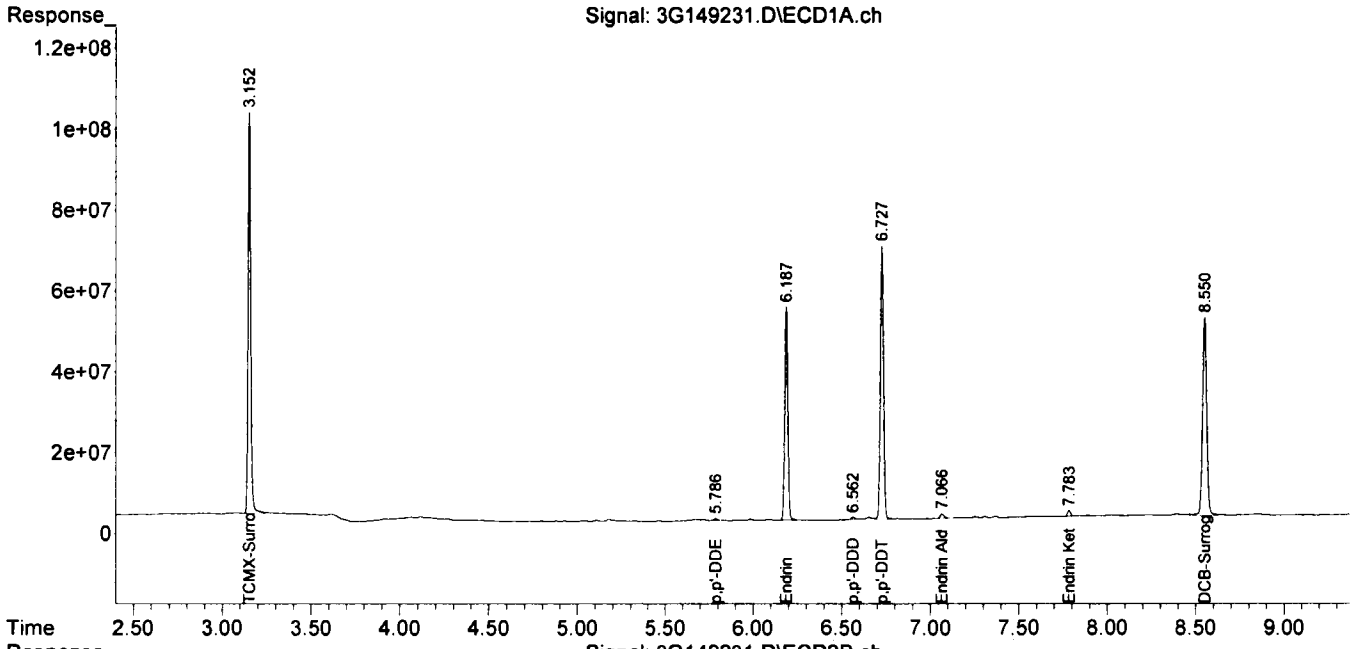
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

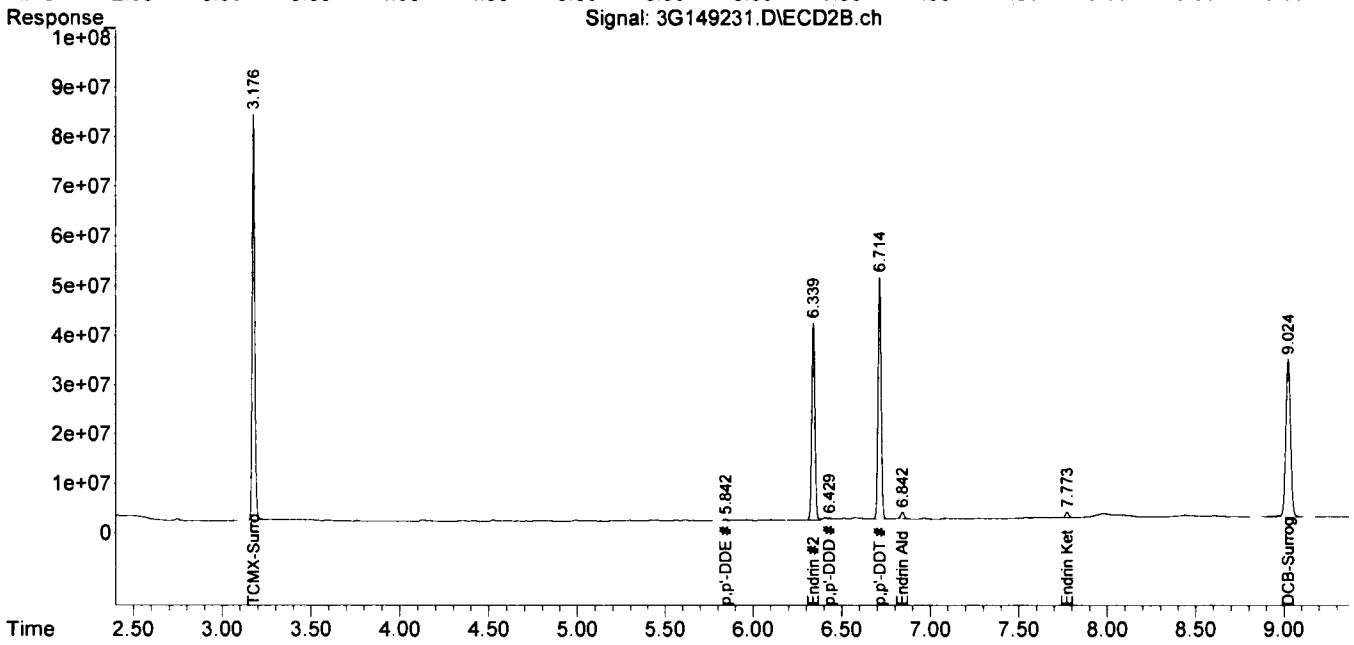
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\06-30-23\
Data File : 3G149231.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Jun 2023 07:21
Operator : AH//PR/KM
Sample : CAL EVAL
Misc : S,PEST
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 08:34:51 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0602.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jun 05 10:43:48 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0703-23\
Data File : 3G149287.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jul 2023 14:17
Operator : AH//PR/KM
Sample : CAL EVAL
Misc : S,PEST
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 16:00:26 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jul 03 15:57:34 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
	Target Compounds						
1)	TCMX-Surrogate	3.140	3.173	1112.5E6	907.9E6	111.517	106.230m
12)	p,p'-DDE	5.770	5.836	8831741	4880071	0.848	0.608m#
14)	Endrin	6.166	6.330	737.8E6	582.4E6	80.827	85.330
15)	p,p'-DDD	6.542	6.398	19844535	14751245	2.336	2.181m
17)	p,p'-DDT	6.705	6.705	911.4E6	763.2E6	127.300	124.888
18)	Endrin Aldehyde	7.041	6.835	8730175	15555545	1.394m	2.905 #
21)	Endrin Ketone	7.760	7.761	21135032	8182710	2.227	1.071m#
22)	DCB-Surrogate	8.525	9.010	930.8E6	671.9E6	99.175	103.959

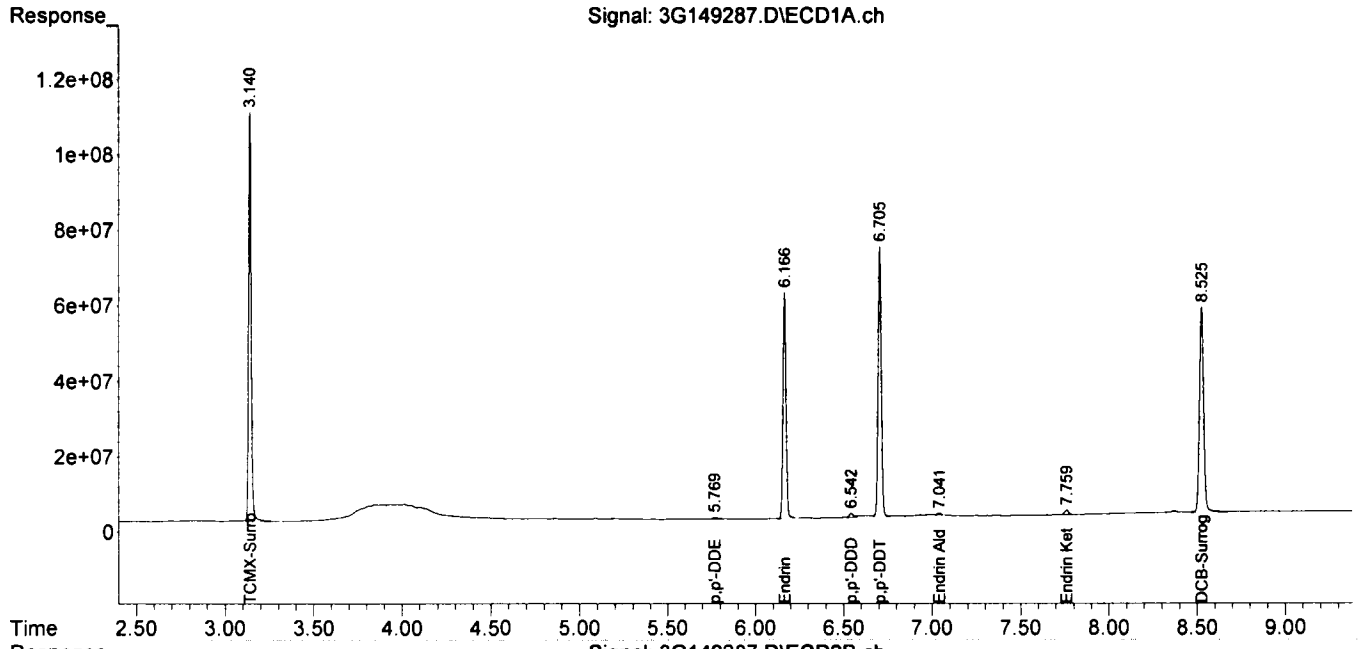
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

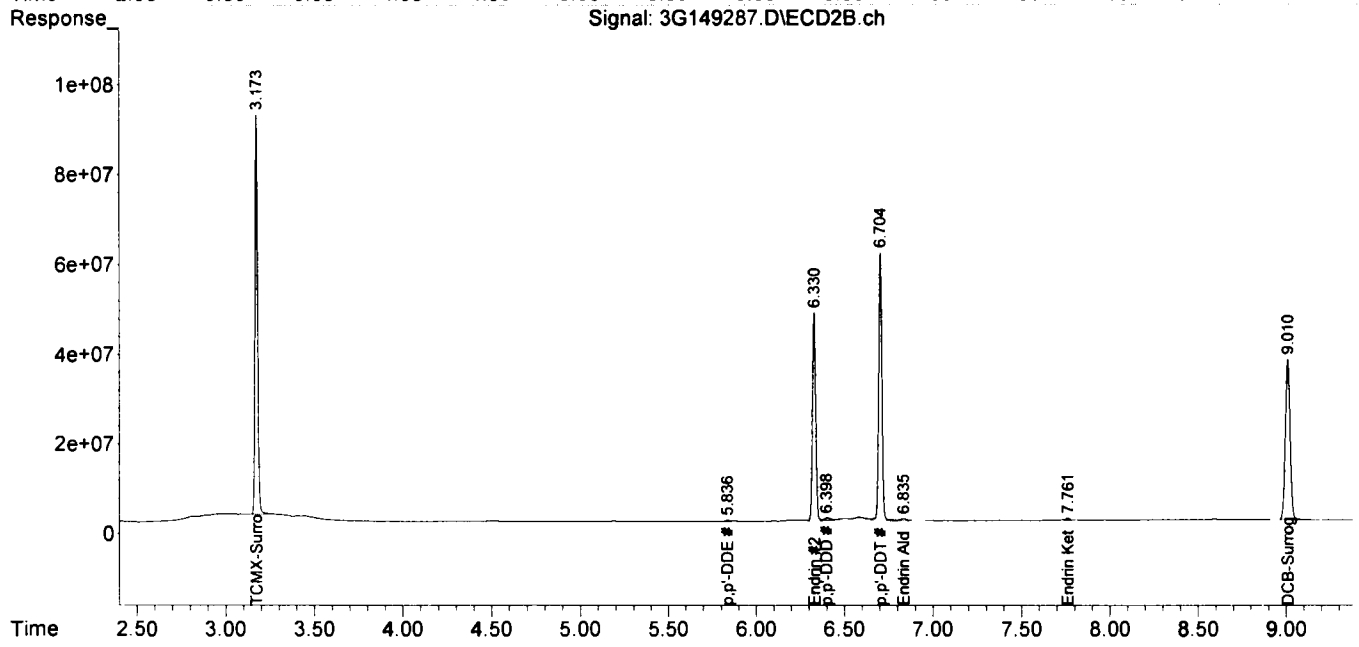
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\0703-23\
Data File : 3G149287.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 03 Jul 2023 14:17
Operator : AH//PR/KM
Sample : CAL EVAL
Misc : S,PEST
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 03 16:00:26 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Mon Jul 03 15:57:34 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2023\GC_3\Data\07-06-23\
Data File : 3G149353.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jul 2023 09:05
Operator : AH//PR/KM
Sample : CAL EVAL
Misc : S,PEST
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 06 09:23:19 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Tue Jul 04 17:33:31 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

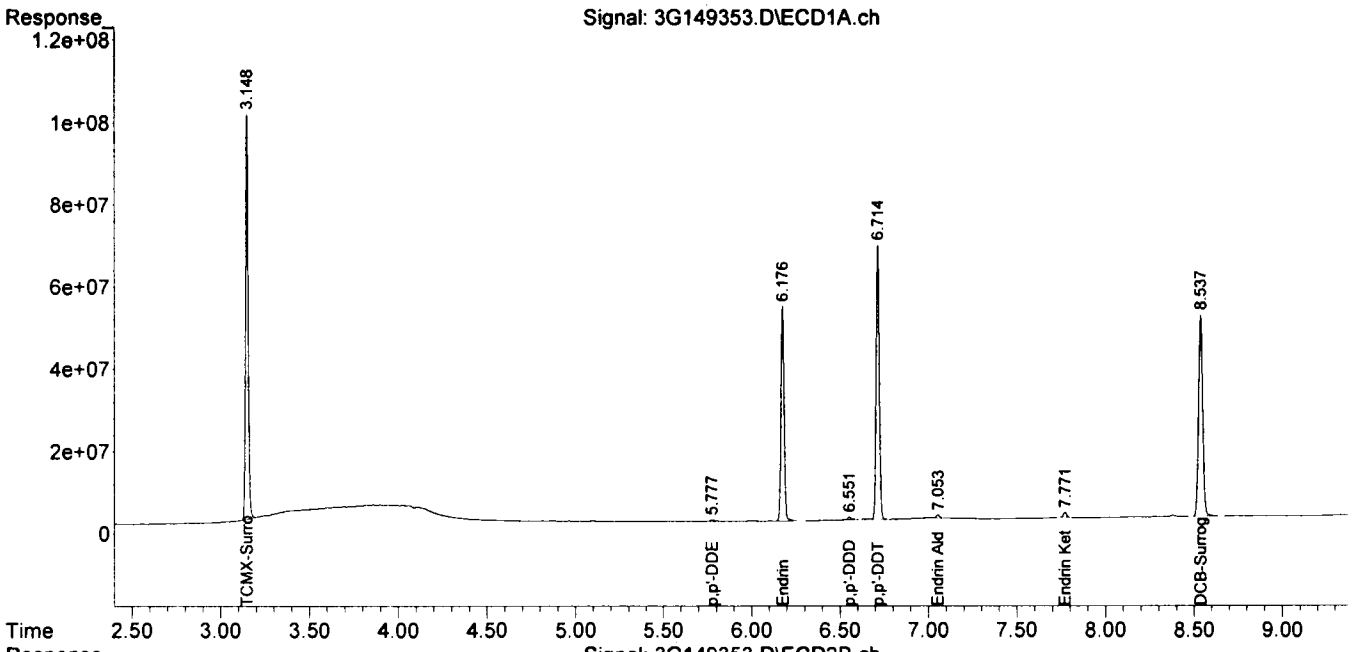
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.148	3.174	1000.4E6	861.7E6	90.286m	91.764
12)p,p'-DDE	5.777	5.838	5202349	3812663	0.448m	0.429m
14)Endrin	6.176	6.333	648.8E6	501.5E6	61.485	61.301m
15)p,p'-DDD	6.552	6.403	9212836	6103540	0.993	0.804
17)p,p'-DDT	6.715	6.708	828.2E6	619.0E6	92.489	83.393
18)Endrin Aldehyde	7.053	6.837	10569078	12059080	1.615m	1.972
21)Endrin Ketone	7.771	7.767	17704408	11375135	1.636m	1.250m
22)DCB-Surrogate	8.538	9.015	809.0E6	628.2E6	76.717	80.684

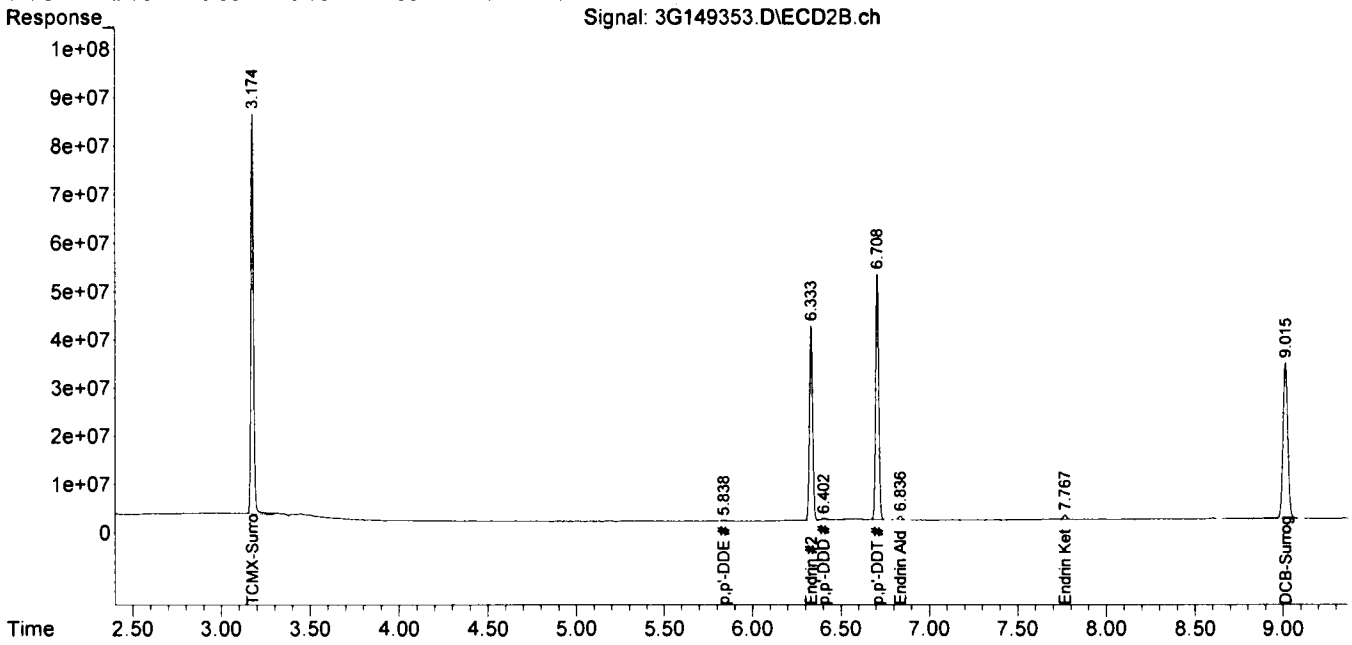
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2023\GC_3\Data\07-06-23\
Data File : 3G149353.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jul 2023 09:05
Operator : AH//PR/KM
Sample : CAL EVAL
Misc : S,PEST
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 06 09:23:19 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Tue Jul 04 17:33:31 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2023\GC_6\Data\07-11-23\
Data File : 6G178119.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Jul 2023 02:01
Operator : AH/PR/KM
Sample : CAL EVAL
Misc : S,PEST
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 11 08:15:54 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Jul 05 11:39:32 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.097	3.233	949.3E6	781.1E6	100.768	99.160
12)p,p'-DDE	5.694	5.906	1852794	2076465	0.191	0.265m#
14)Endrin	6.088	6.406	542.4E6	440.6E6	59.351	61.844
15)p,p'-DDD	6.459	6.468	23856964	19099934	3.004m	2.938m
17)p,p'-DDT	6.623	6.777	505.7E6	395.1E6	71.924m	76.197m
18)Endrin Aldehyde	6.962	6.907	3268206	955155	0.599m	0.189m#
21)Endrin Ketone	7.672	7.844	10672075	7828559	1.212m	1.060m
22)DCB-Surrogate	8.413	9.114	845.1E6	656.2E6	106.712	101.597

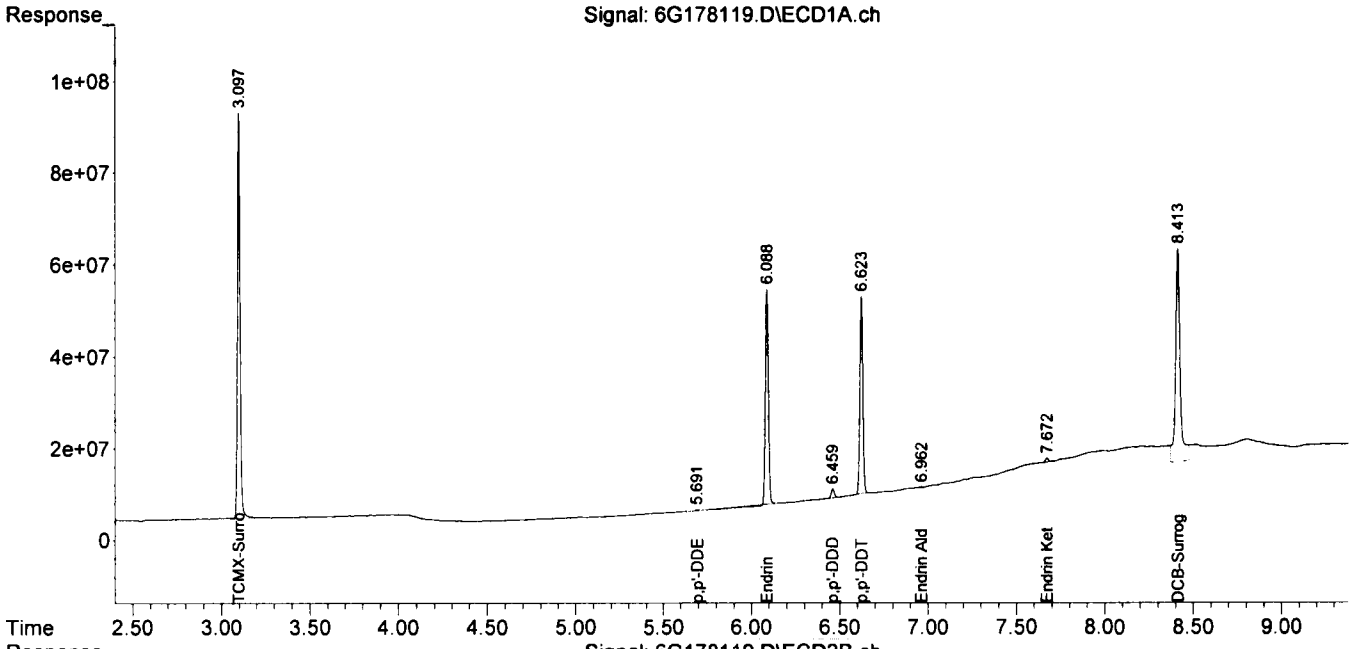
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

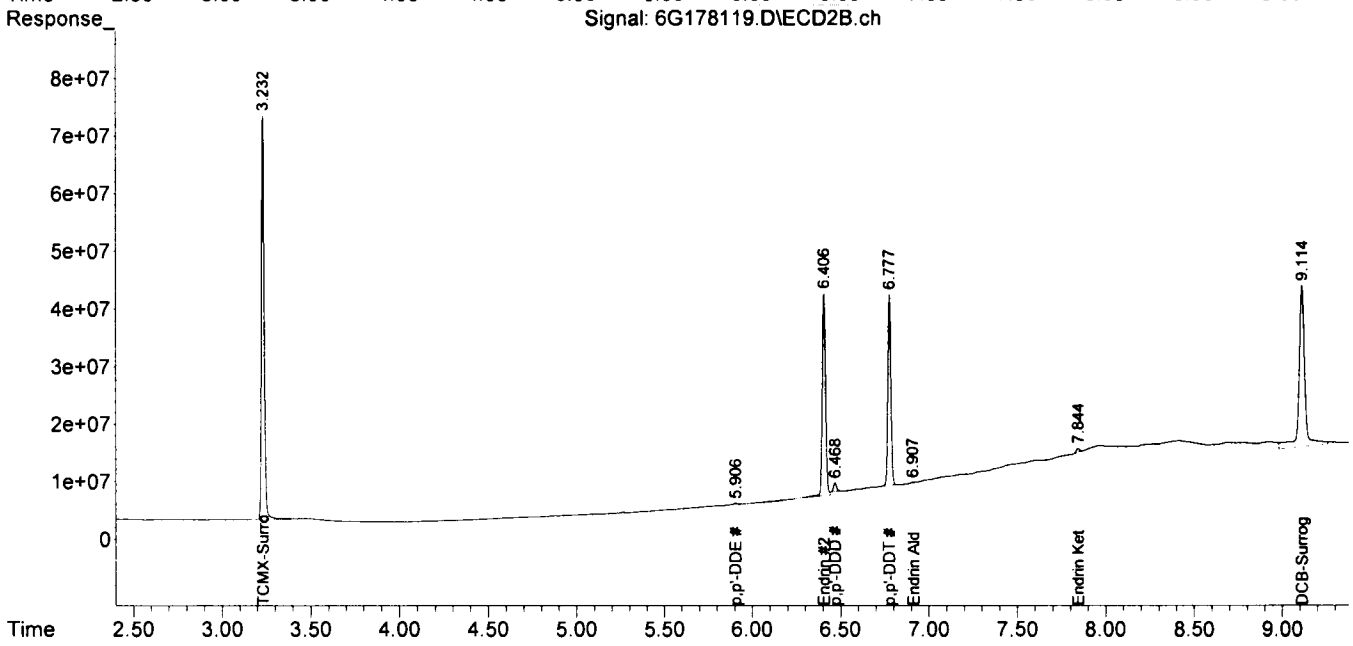
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\07-11-23\
Data File : 6G178119.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Jul 2023 02:01
Operator : AH/PR/KM
Sample : CAL EVAL
Misc : S,PEST
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 11 08:15:54 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Jul 05 11:39:32 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2023\GC_6\Data\07-19-23\
Data File : 6G178537.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jul 2023 07:42
Operator : AH/PR/KM
Sample : CAL EVAL
Misc : S,PEST
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 19 08:32:50 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Jul 05 11:39:32 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2	
Target Compounds							
1)TCMX-Surrogate	3.095	3.232	956.5E6	730.5E6	101.533	92.744	
2)alpha-BHC	3.796	3.924f	15341846	2366143	1.148	0.220	#
3)gamma-BHC	0.000	4.206	0	12023479	N.D.	1.236	#
4)beta-BHC	4.840	4.206	811620	12023479	0.152	2.689	#
5)Heptachlor	4.477f	4.503	2495677	9388583	0.231	1.185	#
6)delta-BHC	5.090	4.585	13178596	3380467	1.153	0.351	#
7)Aldrin	4.571	4.826	5420207	4909986	0.486	0.547	
8)Heptachlor Epoxid	5.278	5.361	8519942	4696602	0.857	0.589	#
9)y-chlordane	5.561	5.515	3755502	7077053	0.379	0.880	#
10)a-chlordane	5.630	5.653	3350041	2476726	0.342	0.314	
11)Endosulfan I	5.561	5.716	3755502	2631826	0.416	0.352	
12)p,p'-DDE	5.686	5.906	7589746	7973792	0.784	1.019	#
13)Dieldrin	5.921	5.998	10639962	1513238	1.049	0.185	#
14)Endrin	6.082	6.405	560.4E6	427.5E6	61.322	60.012	
15)p,p'-DDD	6.453	6.467	23950771	28987113	3.016	4.459	#
16)Endosulfan II	6.512	6.603	6239363	37725787	0.743	5.492	#
17)p,p'-DDT	6.615	6.776	499.8E6	397.2E6	71.092	76.594	
18)Endrin Aldehyde	6.949	6.908	10393359	10402984	1.905	2.061	
19)Endosulfan Sulfat	7.222	7.051	16441527	27382080	2.155	4.445	#
20)Methoxychlor	7.222	7.770f	16441527	203.0E6	4.103	73.680	#
21)Endrin Ketone	7.666	7.842	81819492	77688119	9.291	10.519	
22)DCB-Surrogate	8.405	9.111	659.8E6	553.2E6	83.323	85.650	
23)Chlordane (Techni	4.477f	4.391	2495677	1920493	4.675	6.607	#
24)Chlordane (Techni	5.561	5.515	3755502	7077053	3.588	7.539	#
25)Chlordane (Techni	5.630	5.653	3350041	2476726	2.226	3.581	#
26)Toxaphene {1}	5.921	5.788	10639962	857533	109.679	15.640	#
27)Toxaphene {2}	5.969	5.906	772147	7973792	8.091	186.422	#
28)Toxaphene {3}	6.846	6.776f	4834625	397.2E6	38.174	3632.846	#
29)Toxaphene {4}	7.222	0.000	16441527	0	67.966	N.D.	#
30)Toxaphene {5}	7.222f	7.513	16441527	82357141	223.068	874.306	#

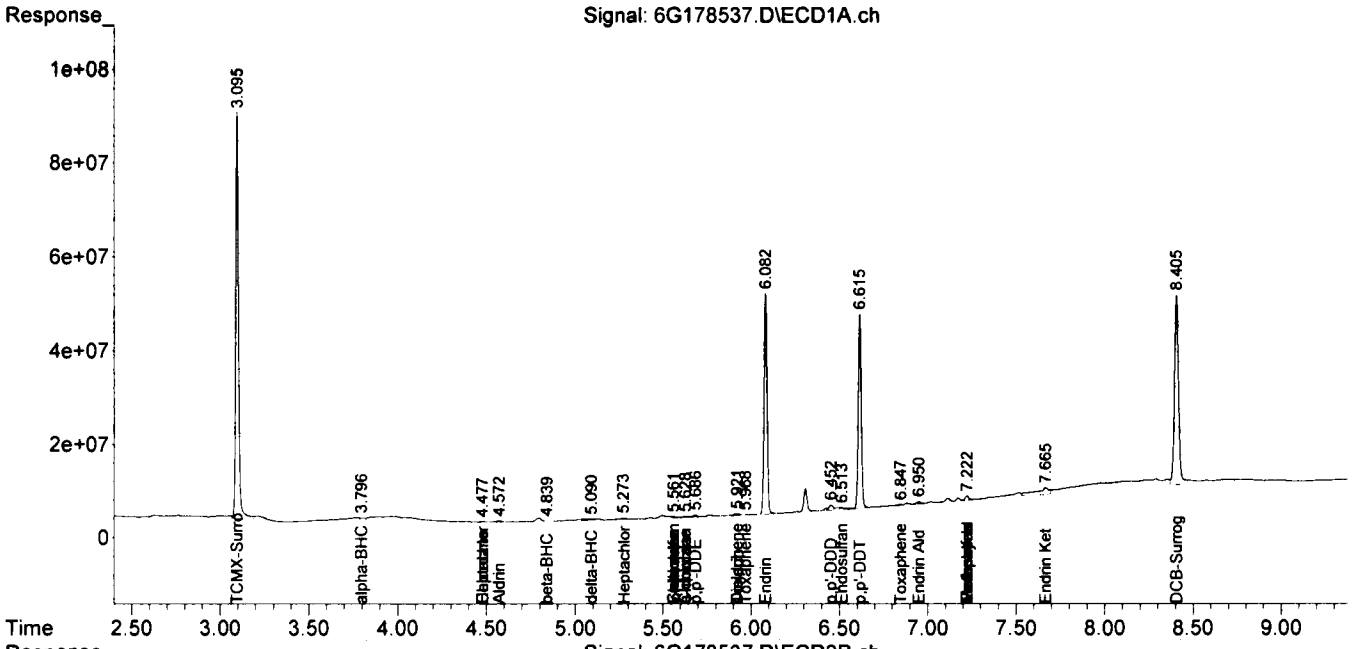
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

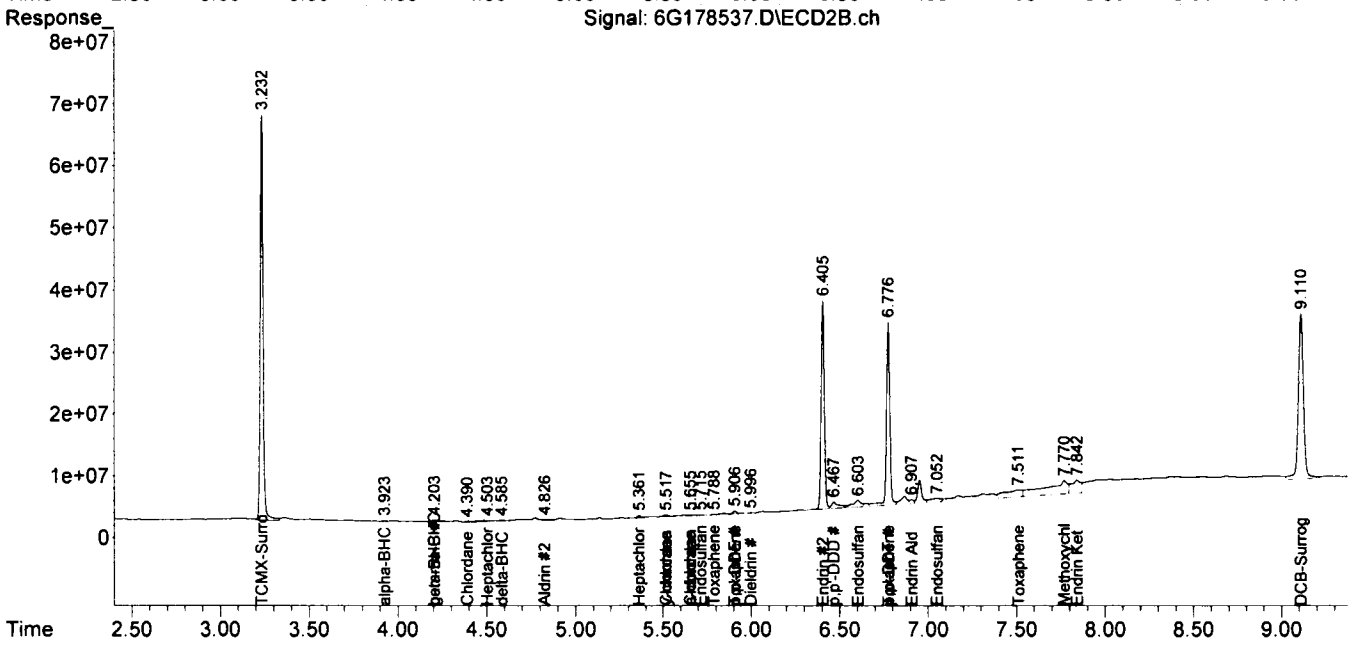
Quantitation Report (Not Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\07-19-23\
Data File : 6G178537.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jul 2023 07:42
Operator : AH/PR/KM
Sample : CAL EVAL
Misc : S,PEST
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 19 08:32:50 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Jul 05 11:39:32 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





GC Pesticide Data
Raw QC Data

Form1

ORGANICS PESTICIDE REPORT

Sample Number: WMB109471
Client Id:
Data File: 3G149358.D
Analysis Date: 07/06/23 10:20
Date Rec/Extracted: NA-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
5103-71-9	a-chlordane	0.010	U	53494-70-5	Endrin Ketone	0.010	U
309-00-2	Aldrin	0.010	U	58-89-9	gamma-BHC	0.010	U
319-84-6	alpha-BHC	0.010	U	76-44-8	Heptachlor	0.010	U
319-85-7	beta-BHC	0.010	U	1024-57-3	Heptachlor Epoxide	0.010	U
319-86-8	delta-BHC	0.010	U	72-43-5	Methoxychlor	0.014	U
60-57-1	Dieldrin	0.010	U	72-54-8	p,p'-DDD	0.010	U
959-98-8	Endosulfan I	0.010	U	72-55-9	p,p'-DDE	0.010	U
33213-65-9	Endosulfan II	0.010	U	50-29-3	p,p'-DDT	0.010	U
1031-07-8	Endosulfan Sulfate	0.010	U	8001-35-2	Toxaphene	0.25	U
72-20-8	Endrin	0.010	U	5103-74-2	y-chlordane	0.010	U
7421-93-4	Endrin Aldehyde	0.010	U				

Worksheet #: 699675

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\07-06-23\
Data File : 3G149358.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jul 2023 10:20
Operator : AH//PR/KM
Sample : WMB109471
Misc : A,PEST
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 06 14:41:54 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Tue Jul 04 17:33:31 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
	Target Compounds						
1)	TCMX-Surrogate	3.141	3.173	1071.7E6	874.4E6	96.719	93.118m
22)	DCB-Surrogate	8.523	9.006	1063.9E6	791.3E6	100.888	101.633

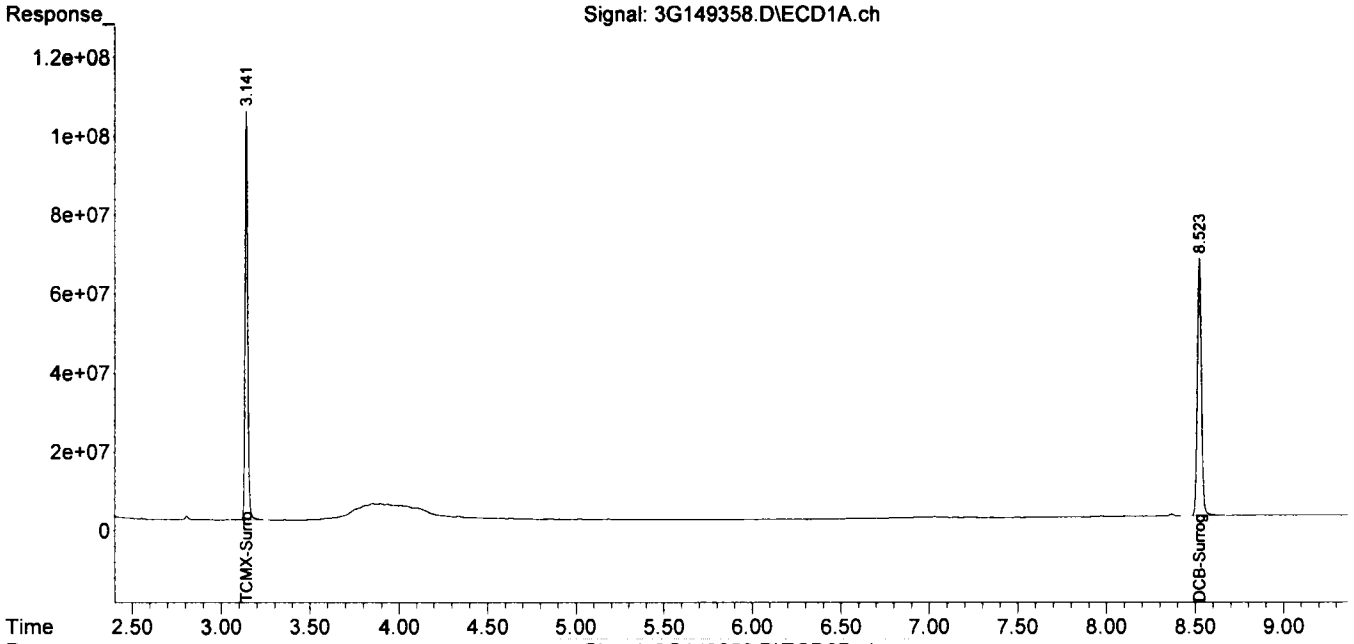
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

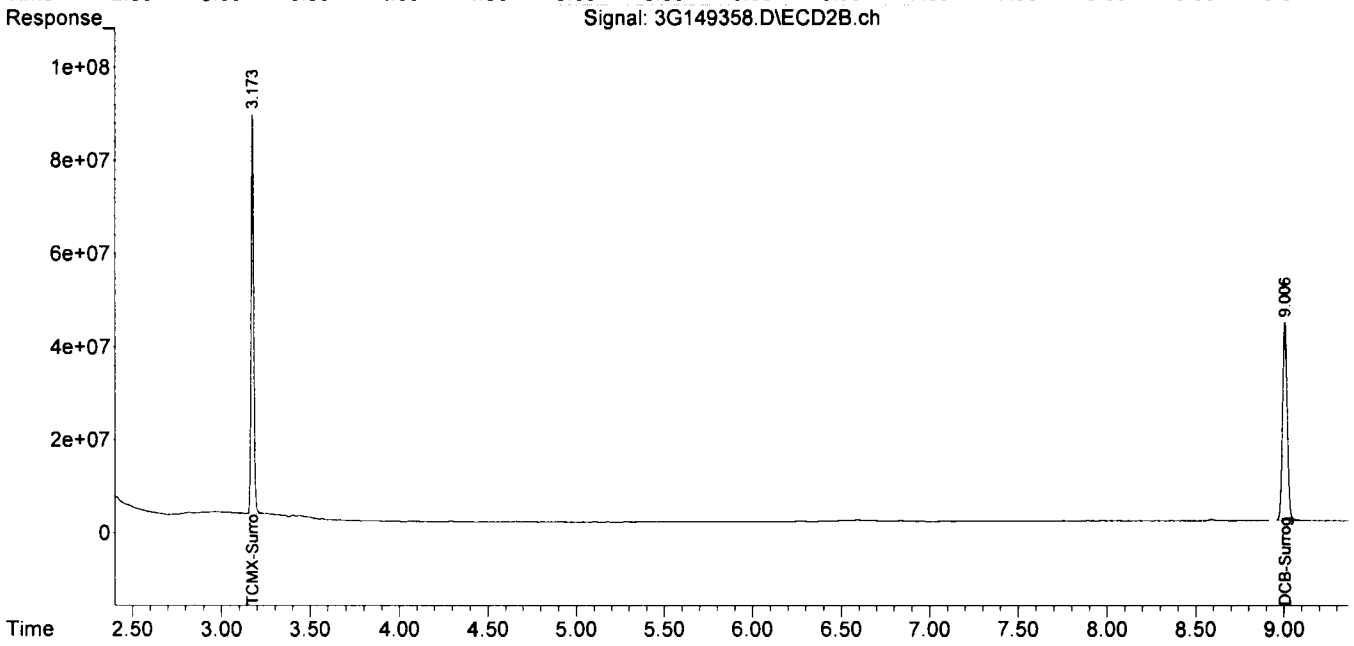
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\07-06-23\
Data File : 3G149358.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jul 2023 10:20
Operator : AH//PR/KM
Sample : WMB109471
Misc : A,PEST
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 06 14:41:54 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Tue Jul 04 17:33:31 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Form3
Recovery Data Laboratory Limits
QC Batch: WMB109471

Data File | Sample ID: | Analysis Date
Spike or Dup: 3G149355.D | WMB109471(MS) | 7/6/2023 9:45:00 AM
Non Spike(If applicable):
Inst Blank(If applicable):

Method: 8081 | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	1	91.71	0	100	92	44	120
gamma-BHC	1	91.77	0	100	92	44	123
beta-BHC	1	93.29	0	100	93	35	129
Heptachlor	1	90.86	0	100	91	44	123
delta-BHC	1	89.15	0	100	89	38	128
Aldrin	1	90.44	0	100	90	46	118
Heptachlor Epoxide	1	95.73	0	100	96	49	121
y-chlordane	1	85.69	0	100	86	44	138
a-chlordane	1	95.88	0	100	96	46	123
Endosulfan I	1	97.96	0	100	98	44	126
p,p'-DDE	1	100.82	0	100	101	44	132
Dieldrin	1	93.9	0	100	94	54	134
Endrin	1	91.07	0	100	91	40	139
p,p'-DDD	1	99.36	0	100	99	43	144
Endosulfan II	1	100.62	0	100	101	39	139
p,p'-DDT	1	104.72	0	100	105	44	138
Endrin Aldehyde	1	110.4	0	100	110	29	143
Endosulfan Sulfate	1	94.15	0	100	94	38	142
Methoxychlor	1	101.98	0	100	102	22	159
Endrin Ketone	1	96.89	0	100	97	40	139

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form

Data Path : G:\Gcdata\2023\GC_3\Data\07-06-23\
Data File : 3G149355.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jul 2023 09:45
Operator : AH//PR/KM
Sample : WMB109471(MS)
Misc : A,PEST
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 06 14:39:34 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Tue Jul 04 17:33:31 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.147	3.174	1083.8E6	908.8E6	97.807	96.775
2)alpha-BHC	3.905	3.759	1433.3E6	1152.8E6	91.708	93.009
3)gamma-BHC	4.259	4.117	1297.9E6	1048.5E6	91.769	93.428
4)beta-BHC	4.914	4.165	580.2E6	474.2E6	93.288	93.183
5)Heptachlor	4.455	4.431	1218.2E6	943.5E6	90.862	91.142
6)delta-BHC	5.168	4.520	1179.5E6	986.8E6	89.152	90.897
7)Aldrin	4.718	4.756	1199.4E6	952.8E6	90.435	91.764
8)Heptachlor Epoxid	5.348	5.293	1163.7E6	904.6E6	95.734	96.474
9)y-chlordane	5.657	5.452	1042.4E6	815.1E6	85.689	88.278
10)a-chlordane	5.708	5.610	1150.7E6	877.6E6	95.884	96.853
11)Endosulfan I	5.620	5.651	1071.3E6	860.8E6	97.957	99.515
12)p,p'-DDE	5.775	5.837	1171.1E6	907.1E6	100.820	102.152
13)Dieldrin	5.971	5.957	1145.5E6	899.2E6	93.898	94.977
14)Endrin	6.174	6.333	960.9E6	745.6E6	91.068	91.132
15)p,p'-DDD	6.547	6.398	921.4E6	718.8E6	99.354	94.721
16)Endosulfan II	6.640	6.508	1044.0E6	823.6E6	100.624	98.419
17)p,p'-DDT	6.713	6.708	937.7E6	705.1E6	104.718	94.997
18)Endrin Aldehyde	7.052	6.836	722.5E6	662.8E6	110.405m	108.395
19)Endosulfan Sulfat	7.359	6.959	868.0E6	643.5E6	94.145	94.918
20)Methoxychlor	7.294	7.585	510.7E6	363.0E6	101.984	89.650
21)Endrin Ketone	7.771	7.766	1048.3E6	866.4E6	96.887	95.229
22)DCB-Surrogate	8.535	9.014	1151.1E6	869.7E6	109.150	111.693

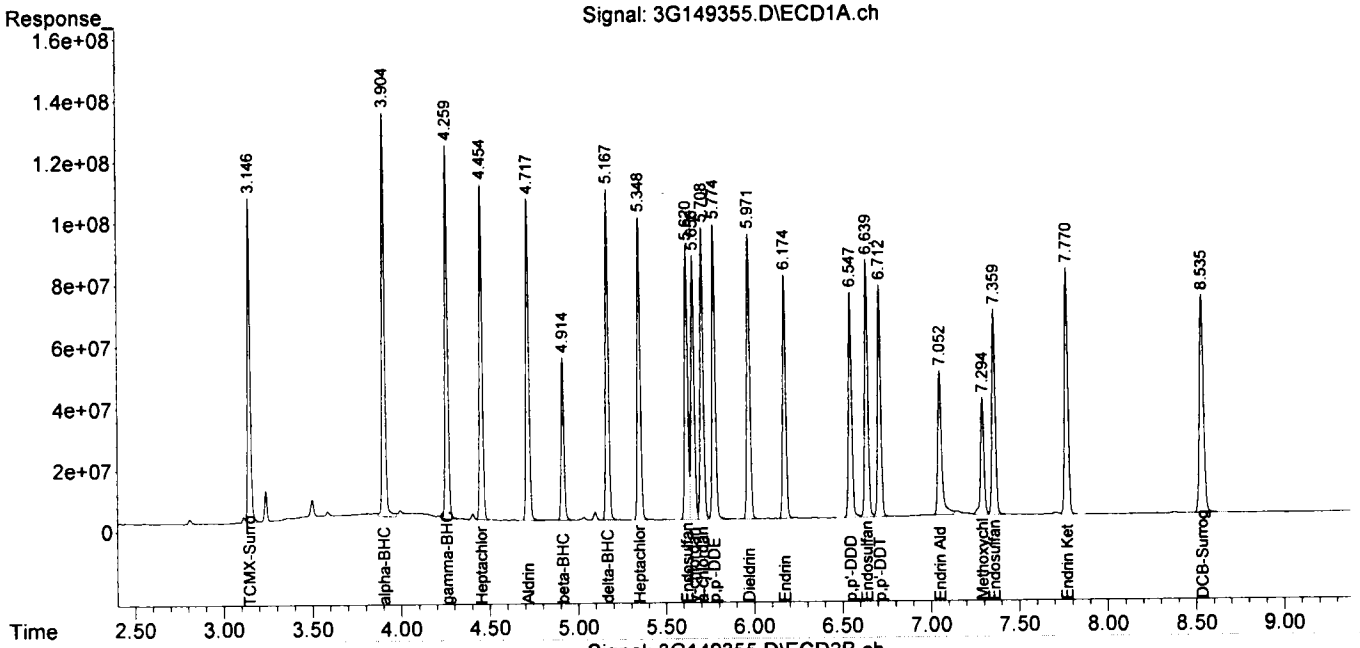
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

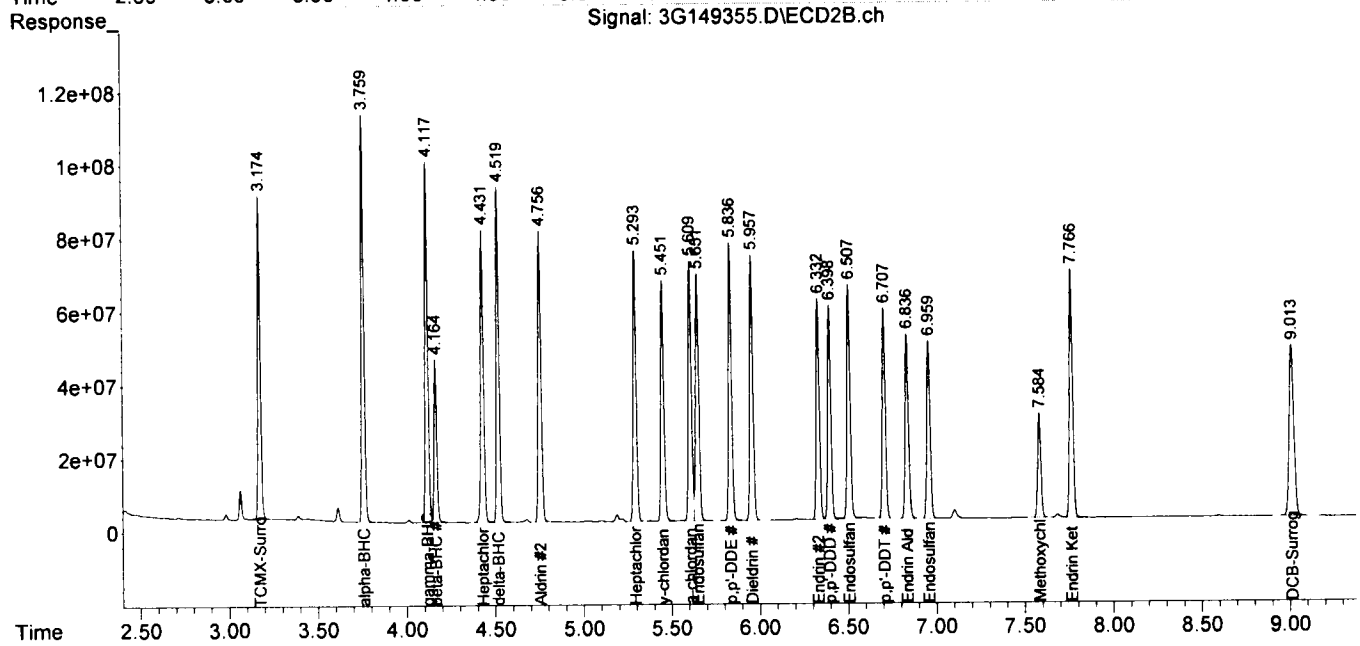
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_3\Data\07-06-23\
Data File : 3G149355.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Jul 2023 09:45
Operator : AH//PR/KM
Sample : WMB109471(MS)
Misc : A,PEST
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 06 14:39:34 2023
Quant Method : G:\GCDATA\2023\GC_3\METHODQT\3_PEST0703.M
Quant Title : @GC_3,ug,608,8081
QLast Update : Tue Jul 04 17:33:31 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Form3
Recovery Data Laboratory Limits
QC Batch: WMB109471

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G178163.D	AD38798-004(MS:AD38798-00	7/11/2023 4:48:00 PM
Non Spike(If applicable):	6G178541.D	AD38798-002	7/19/2023 9:13:00 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	1	94.64	0	100	95	44	120
gamma-BHC	1	94.64	0	100	95	44	123
beta-BHC	1	95.83	0	100	96	35	129
Heptachlor	1	91.27	0	100	91	44	123
delta-BHC	1	92.49	0	100	92	38	128
Aldrin	1	91.92	0	100	92	46	118
Heptachlor Epoxide	1	98.19	0	100	98	49	121
y-chlordane	1	88.58	0	100	89	44	138
a-chlordane	1	100.09	0	100	100	46	123
Endosulfan I	1	99.95	0	100	100	44	126
p,p'-DDE	1	105.56	0	100	106	44	132
Dieldrin	1	95.24	0	100	95	45	134
Endrin	1	102.4	0	100	102	40	139
p,p'-DDD	1	105.36	0	100	105	43	144
Endosulfan II	1	100.41	0	100	100	39	139
p,p'-DDT	1	91.3	0	100	91	44	138
Endrin Aldehyde	1	105.39	0	100	105	29	143
Endosulfan Sulfate	1	96.23	0	100	96	38	142
Methoxychlor	1	85.44	0	100	85	22	159
Endrin Ketone	1	98.73	0	100	99	40	139

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G178164.D	AD38798-005(MSD:AD38798-0	7/11/2023 5:00:00 PM
Non Spike(If applicable):	6G178541.D	AD38798-002	7/19/2023 9:13:00 AM
Inst Blank(If applicable):			

Method: 8081 Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
alpha-BHC	1	103.98	0	100	104	44	120
gamma-BHC	1	98.72	0	100	99	44	123
beta-BHC	1	95.35	0	100	95	35	129
Heptachlor	1	94.34	0	100	94	44	123
delta-BHC	1	91.96	0	100	92	38	128
Aldrin	1	92.38	0	100	92	46	118
Heptachlor Epoxide	1	97.33	0	100	97	49	121
y-chlordane	1	86.63	0	100	87	44	138
a-chlordane	1	98.65	0	100	99	46	123
Endosulfan I	1	97.8	0	100	98	44	126
p,p'-DDE	1	103.13	0	100	103	44	132
Dieldrin	1	94.49	0	100	94	45	134
Endrin	1	101.48	0	100	101	40	139
p,p'-DDD	1	104.39	0	100	104	43	144
Endosulfan II	1	101.85	0	100	102	39	139
p,p'-DDT	1	91.44	0	100	91	44	138
Endrin Aldehyde	1	109.33	0	100	109	29	143
Endosulfan Sulfate	1	95.9	0	100	96	38	142
Methoxychlor	1	87.67	0	100	88	22	159
Endrin Ketone	1	99.5	0	100	100	40	139

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form

Form3
RPD Data Laboratory Limits
QC Batch: WMB109471

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6G178164.D	AD38798-005(MSD:AD38798-0	7/11/2023 5:00:00 PM
Duplicate(If applicable):	6G178163.D	AD38798-004(MS:AD38798-00	7/11/2023 4:48:00 PM
Inst Blank(If applicable):			

Method: 8081 Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
alpha-BHC	1	103.98	94.64	9.4	27
gamma-BHC	1	98.72	94.64	4.2	29
beta-BHC	1	95.35	95.83	0.5	41
Heptachlor	1	94.34	91.27	3.3	41
delta-BHC	1	91.96	92.49	0.57	35
Aldrin	1	92.38	91.92	0.5	26
Heptachlor Epoxide	1	97.33	98.19	0.88	24
y-chlordane	1	86.63	88.58	2.2	24
a-chlordane	1	98.65	100.09	1.4	24
Endosulfan I	1	97.8	99.95	2.2	24
p,p'-DDE	1	103.13	105.56	2.3	23
Dieldrin	1	94.49	95.24	0.79	24
Endrin	1	101.48	102.4	0.9	29
p,p'-DDD	1	104.39	105.36	0.92	40
Endosulfan II	1	101.85	100.41	1.4	30
p,p'-DDT	1	91.44	91.3	0.15	60
Endrin Aldehyde	1	109.33	105.39	3.7	50
Endosulfan Sulfate	1	95.9	96.23	0.34	41
Methoxychlor	1	87.67	85.44	2.6	50
Endrin Ketone	1	99.5	98.73	0.78	42

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\07-11-23\
Data File : 6G178163.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Jul 2023 16:48
Operator : AH/PR/KM
Sample : AD38798-004(MS:AD38798-002) (Sig #1); AD38798-004(MS) (Sig #2)
Misc : A,PEST
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 11 17:00:06 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Jul 05 11:39:32 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.095	3.230	965.8E6	789.6E6	102.510	100.244
2)alpha-BHC	3.843	3.820	1264.9E6	997.6E6	94.638	92.792
3)gamma-BHC	4.194	4.181	1136.9E6	910.8E6	94.643	93.643
4)beta-BHC	4.846	4.229	512.7E6	428.5E6	95.825	95.842
5)Heptachlor	4.384	4.498	984.8E6	768.7E6	91.274	96.989
6)delta-BHC	5.095	4.587	1057.4E6	873.8E6	92.490	90.687
7)Aldrin	4.644	4.824	1026.0E6	815.5E6	91.919	90.844
8)Heptachlor Epoxid	5.268	5.362	976.6E6	769.1E6	98.194	96.487
9)y-chlordane	5.575	5.522	878.1E6	710.7E6	88.579	88.402
10)a-chlordane	5.626	5.680	980.1E6	775.5E6	100.086	98.172
11)Endosulfan I	5.537	5.722	902.6E6	749.0E6	99.949	100.176
12)p,p'-DDE	5.692	5.905	1022.3E6	821.1E6	105.559	104.922
13)Dieldrin	5.885	6.029	966.3E6	779.9E6	95.240	95.102
14)Endrin	6.087	6.405	935.9E6	724.8E6	102.399	101.738
15)p,p'-DDD	6.459	6.467	836.7E6	689.3E6	105.357	106.025
16)Endosulfan II	6.550	6.580	842.7E6	701.8E6	100.409	102.167
17)p,p'-DDT	6.621	6.777	641.9E6	486.5E6	91.299	93.824
18)Endrin Aldehyde	6.958	6.909	574.9E6	539.2E6	105.387	106.829
19)Endosulfan Sulfat	7.263	7.031	734.0E6	597.3E6	96.232	96.976
20)Methoxychlor	7.197	7.652	342.4E6	265.3E6	85.437m	96.299
21)Endrin Ketone	7.672	7.841	869.5E6	750.6E6	98.735	101.633
22)DCB-Surrogate	8.412	9.114	942.6E6	770.2E6	119.032m	119.252m

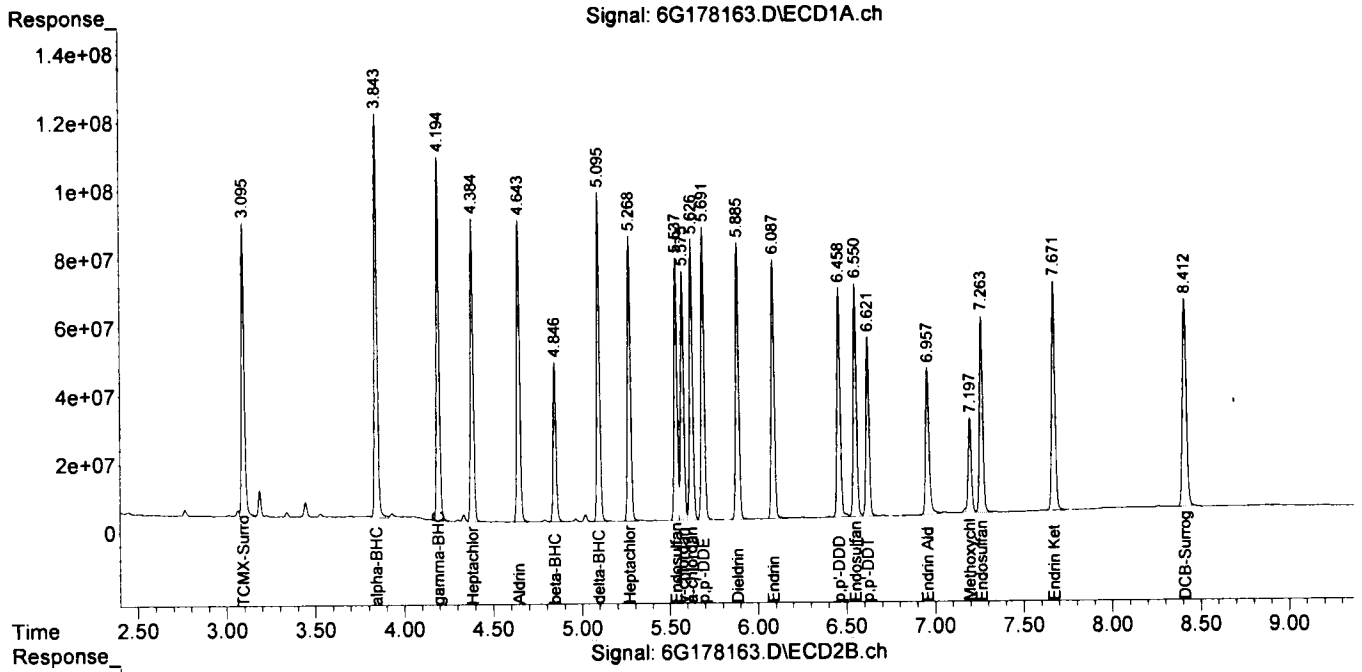
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

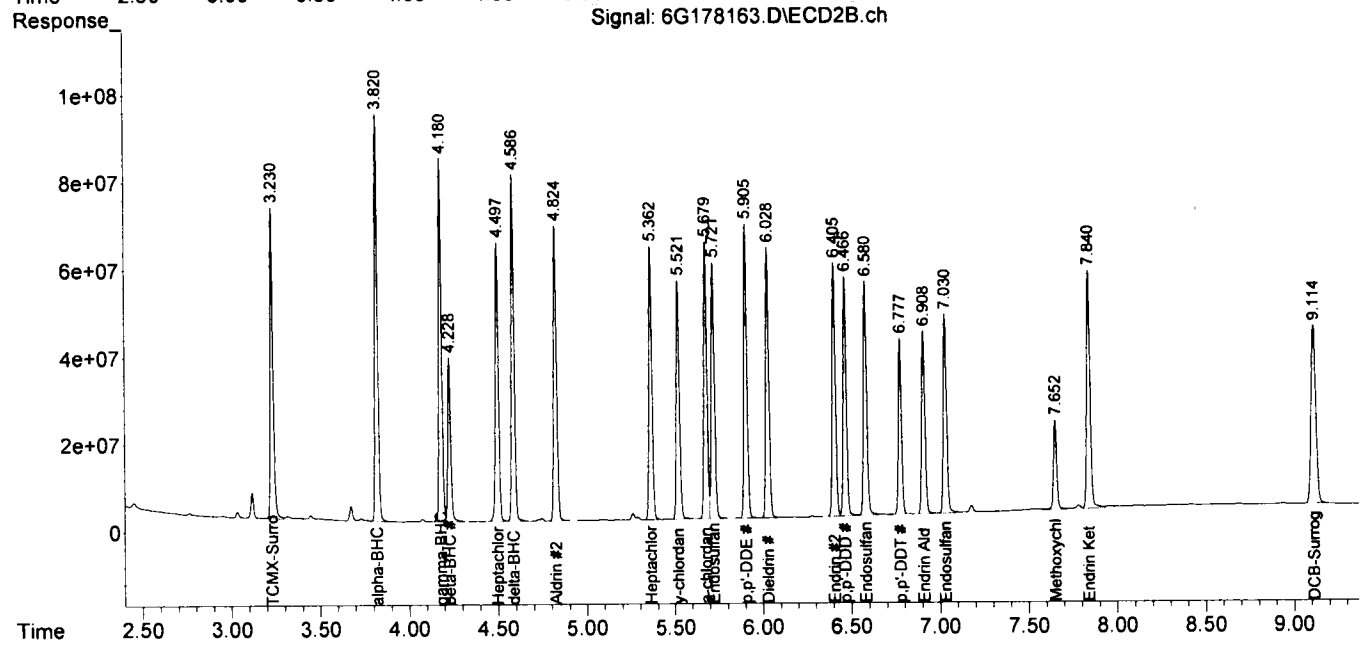
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\07-11-23\
Data File : 6G178163.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Jul 2023 16:48
Operator : AH/PR/KM
Sample : AD38798-004(MS:AD38798-002) (Sig #1); AD38798-004(MS) (Sig #2)
Misc : A,PEST
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 11 17:00:06 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Jul 05 11:39:32 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P
Signal #1 Info : .32
Signal #2 Phase: db-17
Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\07-11-23\
Data File : 6G178164.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Jul 2023 17:00
Operator : AH/PR/KM
Sample : AD38798-005(MSD:AD38798-002) (Sig #1); AD38798-005(MSD) (Sig #2)
Misc : A,PEST
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 11 17:23:35 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Jul 05 11:39:32 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.089	3.231	879.4E6	735.7E6	93.340	93.396
2)alpha-BHC	3.835	3.820	1389.7E6	997.8E6	103.978	92.810
3)gamma-BHC	4.186	4.180	1185.9E6	910.4E6	98.716	93.603
4)beta-BHC	4.837	4.228	510.2E6	430.1E6	95.350	96.205
5)Heptachlor	4.376	4.495	1017.9E6	776.1E6	94.336	97.916
6)delta-BHC	5.086	4.585	1051.4E6	883.5E6	91.963	91.697
7)Aldrin	4.635	4.823	1031.2E6	820.9E6	92.381	91.449
8)Heptachlor Epoxid	5.259	5.360	968.0E6	763.5E6	97.330	95.793
9)y-chlordane	5.566	5.519	858.8E6	703.2E6	86.626	87.468
10)a-chlordane	5.616	5.677	966.0E6	767.0E6	98.653	97.087
11)Endosulfan I	5.527	5.719	883.2E6	743.8E6	97.801	99.482
12)p,p'-DDE	5.682	5.901	998.8E6	806.7E6	103.131	103.077
13)Dieldrin	5.876	6.026	958.7E6	775.9E6	94.493	94.611
14)Endrin	6.077	6.402	927.4E6	721.5E6	101.479	101.279
15)p,p'-DDD	6.449	6.463	829.0E6	683.1E6	104.387	105.067
16)Endosulfan II	6.540	6.577	854.8E6	716.2E6	101.849	104.263
17)p,p'-DDT	6.611	6.773	642.9E6	498.2E6	91.437	96.083
18)Endrin Aldehyde	6.947	6.905	596.4E6	559.7E6	109.325	110.886
19)Endosulfan Sulfat	7.253	7.027	731.5E6	603.8E6	95.900	98.034
20)Methoxychlor	7.187	7.647	351.3E6	283.0E6	87.668	102.701
21)Endrin Ketone	7.662	7.837	876.3E6	762.4E6	99.504	103.219
22)DCB-Surrogate	8.401	9.107	933.0E6	759.3E6	117.817	117.553

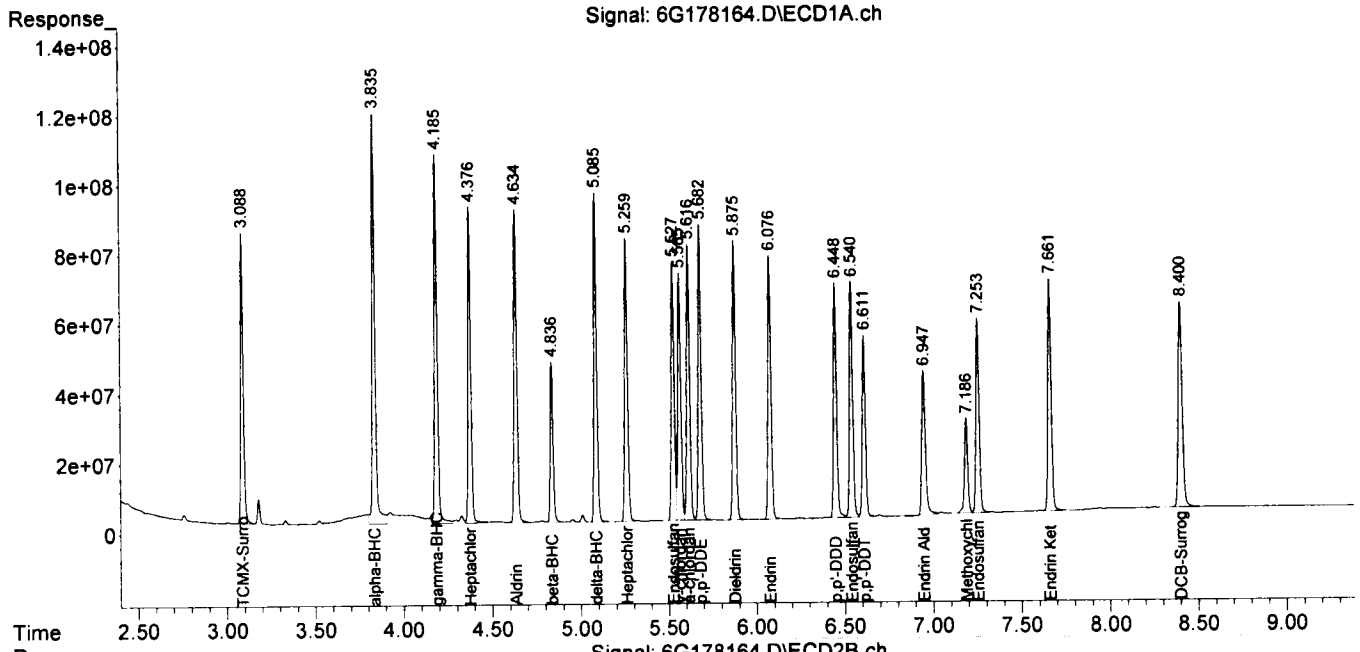
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

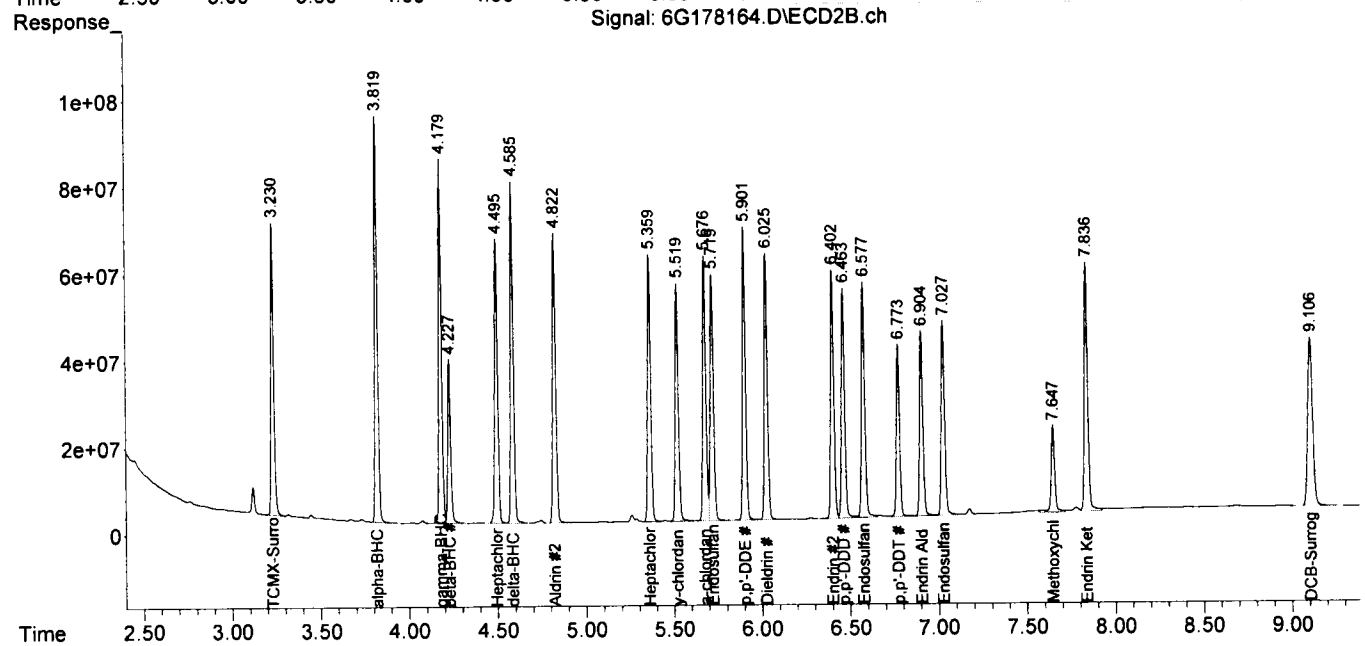
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\07-11-23\
Data File : 6G178164.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Jul 2023 17:00
Operator : AH/PR/KM
Sample : AD38798-005(MSD:AD38798-002) (Sig #1); AD38798-005(MSD) (Sig #2)
Misc : A,PEST
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 11 17:23:35 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Jul 05 11:39:32 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\07-19-23\
Data File : 6G178541.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jul 2023 09:13
Operator : AH/PR/KM
Sample : AD38798-002
Misc : A,PEST
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 19 09:28:40 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Jul 05 11:39:32 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
	Target Compounds						
1)	TCMX-Surrogate	3.088	3.231	949.0E6	798.9E6	100.732	101.431
22)	DCB-Surrogate	8.395	9.105	911.4E6	735.0E6	115.094m	113.793

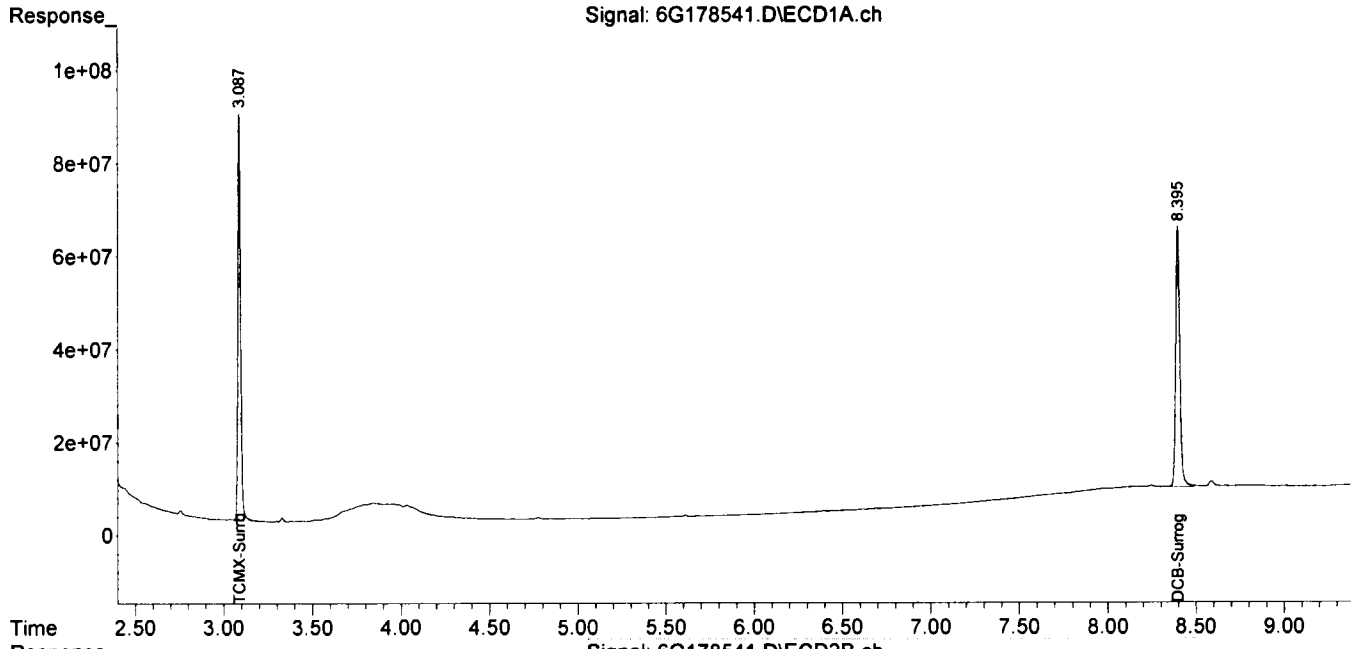
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

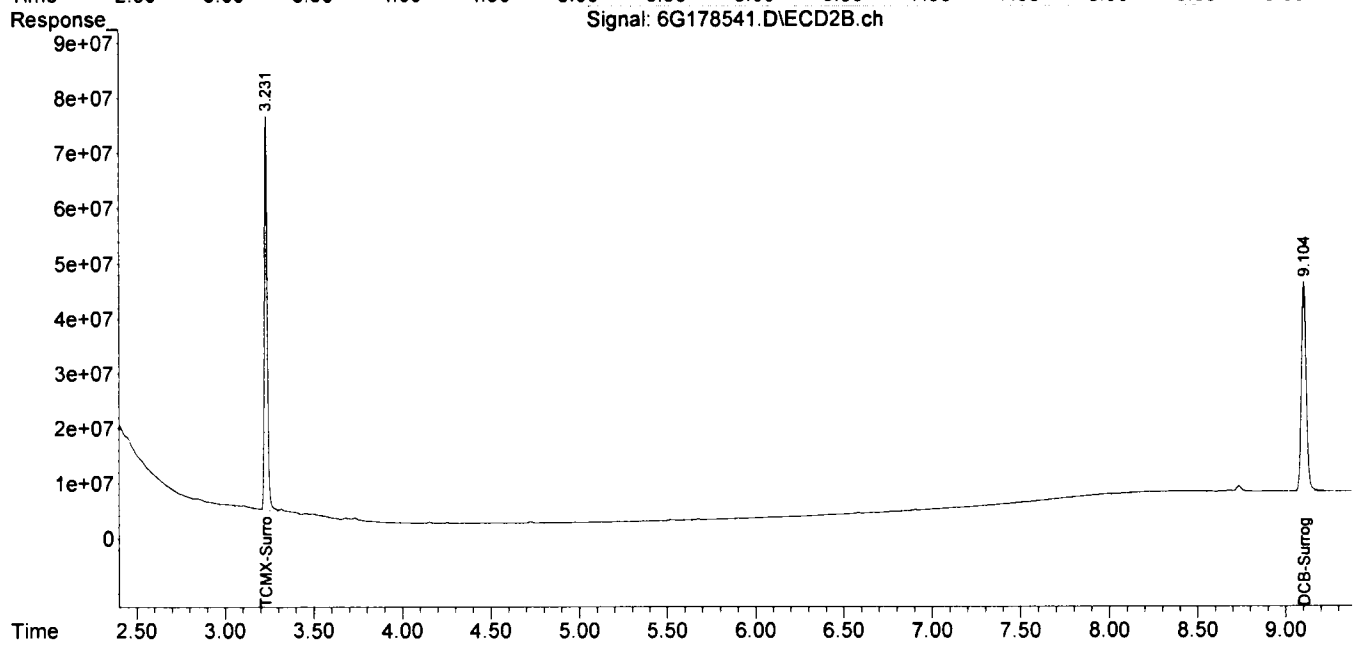
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_6\Data\07-19-23\
Data File : 6G178541.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Jul 2023 09:13
Operator : AH/PR/KM
Sample : AD38798-002
Misc : A,PEST
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jul 19 09:28:40 2023
Quant Method : G:\Gcdata\2023\GC_6\MethodQt\6_PEST0614.M
Quant Title : @GC_6,ug,608,8081
QLast Update : Wed Jul 05 11:39:32 2023
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





GC Pesticide Data
Logbook Data

QC109471 Pest

QC109472 PCB

Hampton-Clarke

Shaker Extraction: (Pest) (3510C) / (PCB) (3510C) / Other(_____):

Pest Batch No.: 109471
Start Ext Date/Time: 6/29/23 6:05pm
End Ext. Date/Time: 6/30/23 7:11am
Recirculator: Start temp: 20.0, 15.0
End temp: 20.1, 14.8

PCB Batch No.: 109472
Shaker Used: 2,3,4
Condenser Used: 1,2
Condenser Flow: 2500 CCM

Sample Number	No. in batch		Initial Vol	Final Vol	Extracted By/ Comments	TCLP QC	Extraction Fluid
	Pest	PCB					
MB 109471/472	X	X	1000mL	5mL	JH		
MBS 109471/472	X	X	↓	↓	↓		
MS 38798-004	X		970mL				
MSD 38798-005	X		990mL				
MS 38798-004		X	970mL				
MSD 38798-005		X	995mL				
AD 38798-002	1	1	965mL				
↓ -006	2	2	985mL				
↓ -007	3	3	965mL				
AD 38806-006	4	4	1000mL				
AD 38812-009	5	5	↓				
↓ -010	6	6					
↓ -011	7	7					
↓ -012	8	8	↓				
AD 38881-001	9	9	985mL	↓	↓		
					Rack #25		
Copper Cleanup:							
Sulfuric Acid Cleanup:	N/A	X					

Spike Standards

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
50	10	393041	(Pest) / PCB / multi
↓	100	389701	Pest / (PCB) / multi
			Pest / PCB / multi
			Pest / PCB / multi
			Pest / PCB / multi

Surrogate Standards

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
50	10	396477	(Pest / PCB) multi
			Pest / PCB / multi
			Pest / PCB / multi
			Pest / PCB / multi
			Pest / PCB / multi

Reagent Lots: $MeCl_2$: 15357 Hexane: 15370 baked Na_2SO_4: 398425 Copper Powder: _____ Sulfuric Acid: 15245

Relinquished By: _____ Date: 6/29/23

Received By: _____ Date: 06/30/23

RUN LOG

1-1-3G148103

Instrument: GC_3 Year: 2023
Analyst: AH//PR/K

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
3G148103.	CAL EVAL	Ee1=2.6;Ee2=3.6;Ed1=1.5;Ed2=1.6;	OK,V-387836	PR 06/05/23		Soil	1	1	8081	06/02 15:27
3G148104.	CAL EVAL	Ee1=2.5;Ee2=3.5;Ed1=1.8;Ed2=2.1;	OK,V-387836	PR 06/05/23		Soil	1	1	8081	06/02 15:39
3G148105.	PEST@2PPB	CnS8	NOT USED	PR 06/05/23		Soil	1	1	8081	06/02 15:50
3G148106.	CAL PEST@2PPB		OK,V-395741	PR 06/05/23		Soil	1	1	608\808	06/02 16:02
3G148107.	CAL PEST@10PPB		OK,V-395740	PR 06/05/23		Soil	1	1	608\808	06/02 16:14
3G148108.	PEST@10PPB	IsCmeS8	NOT USED	PR 06/05/23		Soil	1	1	8081	06/02 16:26
3G148109.	CAL PEST@50PPB		OK,V-395739	PR 06/05/23		Soil	1	1	608\808	06/02 16:37
3G148110.	CAL PEST@100PP		OK,V-395738	PR 06/05/23		Soil	1	1	608\808	06/02 16:49
3G148111.	CAL PEST@200PP		OK,V-395737	PR 06/05/23		Soil	1	1	608\808	06/02 17:01
3G148112.	CAL PEST@400PP		OK,V-395736	PR 06/05/23		Soil	1	1	608\808	06/02 17:13
3G148113.	CAL CHLORO@100		OK,V-395733	PR 06/05/23		Soil	1	1	608\808	06/02 17:24
3G148114.	TOX@50PPB	CmeS8Do	OK,V-395722	PR 06/05/23		Soil	1	1	8081	06/02 17:36
3G148115.	TOX@200PPB	CmeS8Do	OK,V-3957,OK,V-395726	PR 06/05/23		Soil	1	1	8081	06/02 17:48
3G148116.	TOX@500PPB	CmeS8Do	OK,V-395724	PR 06/05/23		Soil	1	1	8081	06/02 18:00
3G148117.	TOX@1000PPB	CmeS8Do	OK,V-395725	PR 06/05/23		Soil	1	1	8081	06/02 18:12
3G148118.	TOX@2000PPB	CmeS8Do	OK,V-395723	PR 06/05/23		Soil	1	1	8081	06/02 18:23
3G148119.	TOX@4000PPB	CmeS8Do	OK,V-395727	PR 06/05/23		Soil	1	1	8081	06/02 18:35
3G148120.	TOX ICV	IsIvoCme	OK,V-395686	PR 06/05/23		Soil	1	1	8081	06/02 18:47
3G148121.	ICV	IsCme	OK,V-395745	PR 06/05/23		Soil	1	1	8081	06/02 18:59
3G148122.	ICV	IsCme	OK,V-395745	PR 06/05/23		Soil	1	1	8081	06/02 19:10

Anc	Area Not Checked	Fo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Fsm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Ftn	Trip/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for anh
B8m	Blank 8000 series missing	Fto	Trip Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Fv	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evm	Eval Mix missing ddt or endon
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rnd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rnd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt.csv for init calibration chek rls	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a samol.	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

Instrument: GC_6 Year: 2023
Analyst: AH/PR/KM

1-1-6G177184

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
6G177184.	EVAL	En	NOT USED	PR 06/16/23		Soil	1	1	8081	06/14 10:13
6G177185.	CAL EVAL	Ee1=1.4;Ee2=1.8;Ed1=2.2;Ed2=2;	OK,V-387836	PR 06/16/23		Soil	1	1	8081	06/14 10:25
6G177186.	CAL PEST@100PP		OK,V-395738	PR 06/16/23		Soil	1	1	608\808	06/14 10:39
6G177187.	CAL PEST@10PPB		OK,V-395740	PR 06/16/23		Soil	1	1	608\808	06/14 10:50
6G177188.	CAL PEST@2PPB		OK,V-395741	PR 06/16/23		Soil	1	1	608\808	06/14 11:02
6G177189.	CAL PEST@400PP		OK,V-395736	PR 06/16/23		Soil	1	1	608\808	06/14 11:14
6G177190.	CAL PEST@200PP		OK,V-395737	PR 06/16/23		Soil	1	1	608\808	06/14 11:26
6G177191.	CAL PEST@50PPB		OK,V-395739	PR 06/16/23		Soil	1	1	608\808	06/14 11:37
6G177192.	CAL CHLORO@100		OK,V-395733	PR 06/16/23		Soil	1	1	608\808	06/14 11:49
6G177193.	TOX@4000PPB	CmeS8	OK,V-395727	PR 06/16/23		Soil	1	1	8081	06/14 12:01
6G177194.	TOX@200PPB	Cme	OK,V-395726	PR 06/16/23		Soil	1	1	8081	06/14 12:12
6G177195.	TOX@1000PPB	Cme	OK,V-395725	PR 06/16/23		Soil	1	1	8081	06/14 12:24
6G177196.	TOX@500PPB	Cme	OK,V-395724	PR 06/16/23		Soil	1	1	8081	06/14 12:36
6G177197.	TOX@2000PPB	CmeS8	OK,V-395723	PR 06/16/23		Soil	1	1	8081	06/14 12:48
6G177198.	TOX@50PPB		OK,V-395722	PR 06/16/23		Soil	1	1	8081	06/14 12:59
6G177199.	TOX ICV	Ivo	OK,V-395686	PR 06/16/23		Soil	1	1	8081	06/14 13:11
6G177200.	ICV		OK,V-395745	PR 06/16/23		Soil	1	1	8081	06/14 13:23
6G177201.	AD38482-003		OK	PR 06/14/23	PE-8081	Aqueous	1	1	8081	06/14 15:48
6G177202.	AD38482-005		OK	PR 06/14/23	PE-8081	Aqueous	1	1	8081	06/14 16:00
6G177203.	EF-1-V-396484(06/0		OK	PR 06/14/23		Aqueous	1	6	8081	06/14 16:11
6G177204.	EF-1-V-396484(06/0		OK	PR 06/14/23		Aqueous	1	6	8081	06/14 16:23
6G177205.	CAL PEST@100PP		OK	PR 06/14/23		Soil	0.5	1	608\808	06/14 17:02

Anc	Area Not Checked	Fo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Fsm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Ftn	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for epb
B8m	Blank 8000 series missing	Fto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Fv	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hh	Analysis Before Collection Date	Evm	Eval Mix missing dlt or endrn
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rnd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rnd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calrpt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a samol	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

1-1-3G149231

RUN LOG

Analysis Start Date 06/30/23
Analyst: AH//PR/K
Instrument: GC_3

Data File	Sample Number	Flags	Comments	RevBy	BlkData	QcMsID	QCLcsI	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Anal Time
3G149231.D	CAL EVAL	Ee1=5.1,Ee2=6.3,Ed1=1.7,Ed2=1.3,	OK,V-387836	PR 06/30/23		0	0		Soil	1	1	8081	07:21
3G149232.D	CAL PEST@100PPB	C16	OK,V-395738, DDT GO WITH BACK COLUMN	PR 06/30/23		0	0		Soil	0.5	1	608\8081	07:36
3G149233.D	AD38797-014		OK	PR 06/30/23	6G177861.D	109477	109477	PE-8081	Soil	1	1	8081	08:02
3G149234.D	AD38797-025		OK CONFIRMED	PR 06/30/23	6G177861.D	109477	109477	PE-8081	Soil	1	1	8081	08:14
3G149235.D	AD38797-026		OK	PR 06/30/23	6G177861.D	109477	109477	PE-8081	Soil	1	1	8081	08:26
3G149236.D	AD38797-024		OK	PR 06/30/23	6G177861.D	109477	109477	PE-8081	Soil	1	1	8081	08:38
3G149237.D	AD38797-023		OK	PR 06/30/23	6G177861.D	109477	109477	PE-8081	Soil	1	1	8081	08:49
3G149238.D	AD38797-021		OK CONFIRMED	PR 06/30/23	6G177861.D	109477	109477	PE-8081	Soil	1	1	8081	09:01
3G149239.D	AD38797-020		OK	PR 06/30/23	6G177861.D	109477	109477	PE-8081	Soil	1	1	8081	09:13
3G149240.D	AD38797-019		OK	PR 06/30/23	6G177861.D	109477	109477	PE-8081	Soil	1	1	8081	09:25
3G149241.D	AD38790-003		OK	PR 06/30/23	6G177862.D	109475	109475	PE-8081	Soil	1	1	8081	09:36
3G149242.D	AD38790-005		OK CONFIRMED	PR 06/30/23	6G177862.D	109475	109475	PE-8081	Soil	1	1	8081	09:48
3G149243.D	AD38797-018		OK CONFIRMED	PR 06/30/23	6G177861.D	109477	109477	PE-8081	Soil	1	1	8081	10:00
3G149244.D	AD38797-007		OK	PR 06/30/23	6G177860.D	109469	109469	PE-8081	Soil	1	1	8081	10:12
3G149245.D	AD38797-010		OK	PR 06/30/23	6G177861.D	109477	109477	PE-8081	Soil	1	1	8081	10:23
3G149246.D	AD38797-009		OK	PR 06/30/23	6G177861.D	109477	109477	PE-8081	Soil	1	1	8081	10:35
3G149247.D	AD38797-005		OK	PR 06/30/23	6G177860.D	109469	109469	PE-8081	Soil	1	1	8081	10:47
3G149248.D	AD38797-006		OK CONFIRMED	PR 06/30/23	6G177860.D	109469	109469	PE-8081	Soil	1	1	8081	10:59
3G149249.D	AD38797-012		OK	PR 06/30/23	6G177861.D	109477	109477	PE-8081	Soil	1	1	8081	11:10
3G149250.D	AD38797-011		OK CONFIRMED	PR 06/30/23	6G177861.D	109477	109477	PE-8081	Soil	1	1	8081	11:22
3G149251.D	AD38695-001		OK	PR 06/30/23	6G177860.D	109469	109469	PE-8081	Soil	1	1	8081	11:34
3G149252.D	AD38797-001		OK	PR 06/30/23	6G177860.D	109469	109469	PE-8081	Soil	1	1	8081	11:46
3G149253.D	100PPB	Tm	NOT USED	PR 06/30/23		0	0		Soil	0.5	1	8081	12:03
3G149254.D	CAL PEST@100PPB	C16C26	OK, DDT GO WITH BACK	PR 06/30/23		0	0		Soil	0.5	1	608\8081	12:21
3G149255.D	WMB109473	C6f	RR,RR, OKAY TO USE	pr 06/30/23	3G149255.D	109473	109473		Aqueous	1	1	608\8081	12:36
3G149256.D	WMB109471	C6f	RR,RR, OKAY TO USE	pr 06/30/23	3G149256.D	109471	109471		Aqueous	1	1	608\8081	12:48
3G149257.D	WMB109471(MS)	C6f	RR,RR, OKAY TO USE WMB109471	pr 06/30/23	3G149256.D	109471	109471		Aqueous	1	1	608\8081	13:00
3G149258.D	WMB109473(MS)	C6f	RR,RR, OKAY TO USE WMB109471	pr 06/30/23	3G149256.D	109471	109471		Aqueous	1	1	608\8081	13:11
3G149259.D	AD38748-001(MS)	C6fEtoMnc	RR,RR, OKAY TO USE WMB109471	pr 06/30/23	3G149256.D	109471	109471	PETCLP-8081	Aqueous	1	1	608\8081	13:23
3G149260.D	AD38748-001(MSD)	C6fEtoMnc	RR,RR, OKAY TO USE WMB109471	pr 06/30/23	3G149256.D	109471	109471	PETCLP-8081	Aqueous	1	1	608\8081	13:35
3G149261.D	38798-004(MS)	C6fMnc	RR,RR, OKAY TO USE	pr 06/30/23	3G149256.D	109471	109471		Aqueous	1	1	608\8081	13:47
3G149262.D	38798-004(MSD)	C6fMnc	RR,RR, OKAY TO USE	pr 06/30/23	3G149256.D	109471	109471		Aqueous	1	1	608\8081	13:58
3G149263.D	AD38748-001(T)	C6fEto	RR,RR, OKAY TO USE	pr 06/30/23	3G149255.D	109473	109473	PETCLP-8081	Aqueous	1	1	608\8081	14:10
3G149264.D	AD38798-002	C6f	RR,RR, OKAY TO USE	pr 06/30/23	3G149256.D	109471	109471	PE-8081	Aqueous	1	1	608\8081	14:22
3G149265.D	AD38790-001(T)		OK	PR 06/30/23	3G149255.D	109473	109473	PETCLP-8081	Aqueous	1	1	8081	14:34
3G149266.D	AD38790-002(T)		OK	PR 06/30/23	3G149255.D	109473	109473	PETCLP-8081	Aqueous	1	1	8081	14:45
3G149267.D	AD38790-003(T)		OK	PR 06/30/23	3G149255.D	109473	109473	PETCLP-8081	Aqueous	1	1	8081	14:57
3G149268.D	AD38790-004(T)		OK	PR 06/30/23	3G149255.D	109473	109473	PETCLP-8081	Aqueous	1	1	8081	15:09
3G149269.D	AD38790-005(T)		OK	PR 06/30/23	3G149255.D	109473	109473	PETCLP-8081	Aqueous	1	1	8081	15:21
3G149270.D	AD38790-006(T)		OK	PR 06/30/23	3G149255.D	109473	109473	PETCLP-8081	Aqueous	1	1	8081	15:32
3G149271.D	AD38798-007		OK	PR 06/30/23	3G149256.D	109471	109471	PE-8081	Aqueous	1	1	8081	15:44
3G149272.D	AD38798-006		OK	PR 06/30/23	3G149256.D	109471	109471	PE-8081	Aqueous	1	1	8081	15:56
3G149273.D	AD38812-010		OK CONFIRMED, CAN USE	PR 06/30/23	3G149256.D	109471	109471	PE-8081	Aqueous	1	1	8081	16:08
3G149274.D	AD38812-009		OK CONFIRMED, CAN USE	PR 06/30/23	3G149256.D	109471	109471	PE-8081	Aqueous	1	1	8081	16:19
3G149275.D	CAL PEST@100PPB	C16C26C18	NOT USED	pr 07/20/23		0	0		Soil	0.5	1	608\8081	16:46
3G149276.D	CAL PEST@100PPB	C16C26C28	OK	pr 07/20/23		0	0		Soil	0.5	1	608\8081	17:03

Anc	Area Not Checked	Fo	Extraction Performed Past Hold	Cn	Warning Possible Carry Over
An	Area Out	Fsm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Ftn	Tcln/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for anh
B8m	Blank 8000 series missing	Eto	Tcln Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hh	Analysis Before Collection Date	Evm	Eval Mix missing ddt or endsn
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rnd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rnd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Prperly for a samol	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

Instrument: GC_3 Year: 2023
Analyst: AH//PR/K

1-1-3G149287

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
3G149287.	CAL EVAL	Ee1=3.9;Ee2=3.9;Ed1=3.1;Ed2=2.5;	OK,V-387836	PR 07/12/23		Soil	1	1	8081	07/03 14:17
3G149288.	PEST@100PPB	Cn	NOT USED	PR 07/12/23		Soil	1	1	8081	07/03 15:07
3G149290.	PEST@2PPB	CnS8	NOT USED	PR 07/12/23		Soil	1	1	8081	07/03 15:49
3G149291.	CAL PEST@2PPB		OK,V-395741	PR 07/12/23		Soil	1	1	608\808	07/03 16:01
3G149292.	PEST@10PPB	IsCmeS8	NOT USED	PR 07/12/23		Soil	1	1	8081	07/03 16:13
3G149293.	CAL PEST@10PPB		OK,V-395740	PR 07/12/23		Soil	1	1	608\808	07/03 16:25
3G149294.	CAL PEST@50PPB		OK,V-395739	PR 07/12/23		Soil	1	1	608\808	07/03 16:36
3G149295.	CAL PEST@100PP		OK,V-395738	PR 07/12/23		Soil	1	1	608\808	07/03 16:48
3G149296.	CAL PEST@200PP		OK,V-395737	PR 07/12/23		Soil	1	1	608\808	07/03 17:00
3G149297.	CAL PEST@400PP		OK,V-395736	PR 07/12/23		Soil	1	1	608\808	07/03 17:12
3G149298.	CAL CHLORO@100		OK,V-395733	PR 07/12/23		Soil	1	1	608\808	07/03 17:23
3G149299.	TOX@50PPB	CmeS8Do	OK,V-395722	PR 07/12/23		Soil	1	1	8081	07/03 17:35
3G149300.	TOX@50PPB	CmeS8Do	OK,V-395722	PR 07/12/23		Soil	1	1	8081	07/03 17:47
3G149301.	TOX@200PPB	CmeS8Do	OK,V-395723	PR 07/12/23		Soil	1	1	8081	07/03 17:59
3G149302.	TOX@500PPB	CmeS8Do	OK,V-395724	PR 07/12/23		Soil	1	1	8081	07/03 18:10
3G149303.	TOX@1000PPB	CmeS8Do	OK,V-395725	PR 07/12/23		Soil	1	1	8081	07/03 18:22
3G149304.	TOX@2000PPB	CmeS8Do	OK,V-395726	PR 07/12/23		Soil	1	1	8081	07/03 18:34
3G149305.	TOX@4000PPB	CmeS8Do	OK,V-395727	PR 07/12/23		Soil	1	1	8081	07/03 18:46
3G149306.	TOX ICV	IsIvoCme	OK,V-395686	PR 07/12/23		Soil	1	1	8081	07/03 18:57
3G149307.	ICV	IsCme	OK,V-395745	PR 07/12/23		Soil	1	1	8081	07/03 19:09

Anc	Area Not Checked	Fo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Fsm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B8m	Blank 600 series missing	Fto	Tclv/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for enh
B8m	Blank 8000 series missing	Fto	Tclp Extraction Performed Outside of Hold	FvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Fv	Eval Time Exceeded	Fvnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Fvm	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R18 R26	Rnd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rnd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C8f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt csv for init calibration chek rls	S6	600 series surrogate out
Cme	Fodmo Cal missing for sample (8000 series)	Iw	Initial cal warning Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

1-1-3G149353

Instrument: GC_3 Year: 2023
Analyst: AH//PR/K

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
3G149353.	CAL EVAL	Ee1=4.2;Ee2=4.5;Ed1=1.7;Ed2=1.6;	OK,V-395836	KM 07/06/23		Soil	1	1	8081	07/06 09:05
3G149354.	CAL PEST@100PP		OK,V-395738	KM 07/06/23		Soil	0.5	1	608\808	07/06 09:31
3G149355.	WMB109471(MS)		OK WMB109471	KM 07/06/23		Aqueous	1	1	608\808	07/06 09:45
3G149356.	WMB109473(MS)		OK WMB109473	KM 07/06/23		Aqueous	1	1	608\808	07/06 09:57
3G149357.	WMB109504(MS)		OK WMB109504	KM 07/06/23		Aqueous	1	1	608\808	07/06 10:08
3G149358.	WMB109471		OK	KM 07/06/23		Aqueous	1	1	608\808	07/06 10:20
3G149359.	WMB109473		OK	KM 07/06/23		Aqueous	1	1	608\808	07/06 10:32
3G149360.	WMB109504		OK	KM 07/06/23		Aqueous	1	1	608\808	07/06 10:44
3G149361.	AD38748-001(T)	Eto	OK WMB109473	KM 07/06/23	PETCLP-808	Aqueous	1	1	608\808	07/06 10:55
3G149362.	AD38881-001		OK	KM 07/06/23	PE-8081	Aqueous	1	1	8081	07/06 11:07
3G149363.	AD38748-001(T)(M	Eto	OK WMB109473	KM 07/06/23	PETCLP-808	Aqueous	1	1	608\808	07/06 11:19
3G149364.	AD38748-001(T)(M	Eto	OK WMB109473	KM 07/06/23,pr 07/13/23,pr 07/13/23,pr 07/13/23	PETCLP-808	Aqueous	1	1	608\808	07/06 11:31
3G149365.	38798-004(MS:AD3	Tmw	RR	pr 07/13/23		Aqueous	1	1	608\808	07/06 11:42
3G149366.	38798-005(MSD:AD	Tmw	RR	pr 07/13/23		Aqueous	1	1	608\808	07/06 11:54
3G149367.	EF-1-V-397759(06/2		OK	KM 07/06/23,pr 07/13/23,pr 07/13/23,pr 07/13/23		Aqueous	1	6	8081	07/06 12:06
3G149368.	AD38750-038		OK	KM 07/06/23,pr 07/13/23,pr 07/13/23,pr 07/13/23	PE-8081	Soil	1	1	8081	07/06 12:18
3G149369.	AD38750-039		OK	KM 07/06/23,pr 07/13/23,pr 07/13/23,pr 07/13/23	PE-8081	Soil	1	1	8081	07/06 12:29
3G149370.	AD38750-040		OK	KM 07/06/23,pr 07/13/23,pr 07/13/23,pr 07/13/23	PE-8081	Soil	1	1	8081	07/06 12:41
3G149371.	AD38800-001		OK	KM 07/06/23,pr 07/13/23,pr 07/13/23,pr 07/13/23	PE-8081	Soil	1	1	8081	07/06 12:53
3G149372.	AD38808-001		OK	KM 07/06/23,pr 07/13/23,pr 07/13/23,pr 07/13/23	PE-8081	Soil	1	1	8081	07/06 13:05
3G149373.	AD38808-004		OK SMB109500	KM 07/06/23,pr 07/13/23,pr 07/13/23,pr 07/13/23	PE-8081	Soil	1	1	8081	07/06 13:16
3G149374.	AD38808-007		OK	KM 07/06/23,pr 07/13/23,pr 07/13/23,pr 07/13/23	PE-8081	Soil	1	1	8081	07/06 13:28
3G149375.	CAL PEST@100PP		OK	KM 07/06/23,pr 07/13/23,pr 07/13/23,pr 07/13/23		Soil	0.5	1	608\808	07/06 13:47
3G149376.	AD38782-006(MS)		OK SMB109484	KM 07/06/23,pr 07/13/23,pr 07/13/23,pr 07/13/23	PE-8081	Soil	1	1	8081	07/06 14:03
3G149377.	AD38782-006(MSD)		OK SMB109484	KM 07/06/23,pr 07/13/23,pr 07/13/23,pr 07/13/23	PE-8081	Soil	1	1	8081	07/06 14:15
3G149378.	AD38764-002(MS)		NOT USED,OK SMB109498	KM 07/06/23,pr 07/13/23,pr 07/13/23,pr 07/13/23	PE-8081	Soil	1	1	8081	07/06 14:27

Anc	Area Not Checked	Fo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Fsm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Fto	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for anh
B8m	Blank 8000 series missing	Fto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Fv	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hh	Analysis Before Collection Date	Evm	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rnd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rnd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Rn	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Diff
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt csv for init calibration chek rls	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a samp	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

1-1-3G149379

Instrument: GC_3 Year: 2023
Analyst: AH//PR/K

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
3G149379.	AD38764-002(MSD)		NOT USED,OK SMB109498	KM 07/06/23,pr 07/13/23,pr 07/13/23,pr 07/13/23	PE-8081	Soil	1	1	8081	07/06 14:39
3G149380.	AD38823-001(MS)		OK SMB109509	pr 07/13/23	PE-8081	Soil	1	1	8081	07/06 14:50
3G149381.	AD38823-001(MSD)		OK SMB109509	pr 07/13/23	PE-8081	Soil	1	1	8081	07/06 15:02
3G149382.	AD38787-001(MS)		OK SMB109469	pr 07/13/23	PE-8081	Soil	1	1	8081	07/06 15:14
3G149383.	SMB109524(MS)		OK SMB109524	pr 07/13/23		Soil	1	1	8081	07/06 15:26
3G149384.	CAL PEST@100PP		OK	KM 07/06/23		Soil	0.5	1	608\808	07/06 15:41

Anc	Area Not Checked	Fo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Fsm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Ftn	Tclp/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for anb
B8m	Blank 8000 series missing	Fto	Tclp Extraction Performed Outside of Hold	FvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Fv	Eval Time Exceeded	Fvnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Fvnc	Eval Mix missing dtt or andrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rnd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rnd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a samol	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

Instrument: GC_6 Year: 2023
Analyst: AH/PR/KM

1-1-6G178119

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
6G178119.	CAL EVAL	Ee1=2.5;Ee2=2;Ed1=4.8;Ed2=5.1;	OK,V-387836	PR 07/11/23		Soil	1	1	8081	07/11 02:01
6G178121.	CAL PEST@100PP		OK,V-395738	PR 07/11/23		Soil	0.5	1	608\808	07/11 02:25
6G178123.	AD38838-027		OK	PR 07/11/23	PE-8081	Soil	1	1	8081	07/11 03:12
6G178124.	AD38838-026		OK	PR 07/11/23	PE-8081	Soil	1	1	8081	07/11 03:23
6G178125.	AD38838-025		OK CONFIRMED	PR 07/11/23	PE-8081	Soil	1	1	8081	07/11 03:35
6G178126.	AD38838-024		OK SMB109559	PR 07/11/23	PE-8081	Soil	1	1	8081	07/11 03:47
6G178127.	AD38838-024(MSD)		OK SMB109559	PR 07/11/23	PE-8081	Soil	1	1	8081	07/11 03:59
6G178128.	AD38838-024(MS)		OK SMB109559	PR 07/11/23	PE-8081	Soil	1	1	8081	07/11 04:10
6G178129.	AD38838-010		OK CONFIRMED	PR 07/11/23	PE-8081	Soil	1	1	8081	07/11 04:22
6G178130.	AD38838-011		OK	PR 07/11/23	PE-8081	Soil	1	1	8081	07/11 04:34
6G178131.	AD38838-012		OK	PR 07/11/23	PE-8081	Soil	1	1	8081	07/11 04:45
6G178132.	AD38838-023		OK CONFIRMED	PR 07/11/23	PE-8081	Soil	1	1	8081	07/11 04:57
6G178133.	SMB109559(MS)		OK SMB109559	PR 07/11/23		Soil	1	1	8081	07/11 05:09
6G178134.	AD38838-022		OK	PR 07/11/23	PE-8081	Soil	1	1	8081	07/11 05:21
6G178135.	SMB109559		OK	PR 07/11/23		Soil	1	1	8081	07/11 05:32
6G178136.	AD38838-021		OK	PR 07/11/23	PE-8081	Soil	1	1	8081	07/11 05:44
6G178137.	AD38838-020		OK	PR 07/11/23	PE-8081	Soil	1	1	8081	07/11 05:56
6G178138.	AD38833-007		OK	PR 07/11/23	PE-8081	Soil	1	1	8081	07/11 06:08
6G178139.	AD38833-008		OK	PR 07/11/23	PE-8081	Soil	1	1	8081	07/11 06:19
6G178140.	AD38965-003		OK CONFIRMED	PR 07/11/23	PE-8081	Soil	1	1	8081	07/11 06:31
6G178141.	AD38979-003		OK CONFIRMED	PR 07/11/23	PE-8081	Soil	1	1	8081	07/11 06:43
6G178142.	AD38833-006		OK	PR 07/11/23	PE-8081	Soil	1	1	8081	07/11 06:55
6G178143.	CAL EVAL	Ee1=2.1;Ee2=1.1;Ed1=1.6;Ed2=2;	OK	PR 07/11/23		Soil	1	1	6081	07/11 07:27
6G178144.	CAL PEST@100PP		OK	PR 07/11/23		Soil	0.5	1	608\808	07/11 08:09
6G178145.	AD38920-001(T)		OK	PR 07/11/23	PETCLP-808	Aqueous	1	1	8081	07/11 08:31
6G178146.	AD38833-010		OK	PR 07/11/23	PE-8081	Aqueous	1	1	8081	07/11 08:42
6G178147.	AD38833-011		OK	PR 07/11/23	PE-8081	Aqueous	1	1	8081	07/11 08:54
6G178148.	AD38833-012		OK	PR 07/11/23	PE-8081	Aqueous	1	1	8081	07/11 09:06
6G178149.	AD38833-009		OK WMB109504	PR 07/11/23	PE-8081	Aqueous	1	1	608\808	07/11 09:17
6G178150.	EF-1-V-398329(07/0		OK	PR 07/11/23		Aqueous	1	7	8081	07/11 09:29
6G178151.	AD38955-001				PE-608.3	Aqueous	1	1	608\808	07/11 09:41
6G178152.	SMB109558(MS)		OK SMB109558	PR 07/11/23		Soil	1	1	8081	07/11 09:53
6G178153.	AD38838-004(MS)		OK SMB109558	PR 07/11/23	PE-8081	Soil	1	1	8081	07/11 10:04
6G178154.	AD38833-001(MSD)		OK SMB109562	PR 07/11/23	PE-8081	Soil	1	1	8081	07/11 10:16
6G178155.	AD38833-001(MS)		OK SMB109562	PR 07/11/23	PE-8081	Soil	1	1	8081	07/11 10:28
6G178156.	SMB109562(MS)		OK SMB109562	PR 07/11/23		Soil	1	1	8081	07/11 10:40
6G178157.	SMB109562		OK	PR 07/11/23		Soil	1	1	8081	07/11 10:51
6G178158.	38838-018		NOT USED	PR 07/11/23		Soil	1	1	8081	07/11 12:20
6G178159.	100PPB		NOT USED	PR 07/11/23		Soil	0.5	1	8081	07/11 13:37
6G178160.	CAL PEST@100PP		OK	PR 07/11/23		Soil	0.5	1	608\808	07/11 14:15
6G178161.	38798-004(MS)		NOT USED	PR 07/11/23		Aqueous	1	1	608\808	07/11 16:04
6G178162.	38798-005(MSD)		NOT USED	PR 07/11/23		Aqueous	1	1	608\808	07/11 16:16
6G178163.	AD38798-004(MS:A		OK WMB109471	PR 07/11/23	PE-8081	Aqueous	1	1	608\808	07/11 16:48
6G178164.	AD38798-005(MSD:		OK WMB109471	PR 07/11/23	PE-8081	Aqueous	1	1	608\808	07/11 17:00
6G178165.	100PPB		NOT USED	PR 07/11/23		Soil	0.5	1	8081	07/11 17:36
6G178166.	CAL PEST@100PP		OK	PR 07/11/23		Soil	0.5	1	608\808	07/11 17:50
6G178167.	AD38955-001		RR20X	PR 07/18/23	PE-608.3	Aqueous	1	1	608\808	07/11 18:35
6G178169.	AD38955-001(20X)		OK CONFIRMED	PR 07/18/23	PE-608.3	Aqueous	20	20	608\808	07/11 19:09
6G178170.	CAL PEST@100PP		OK	PR 07/18/23		Soil	0.5	1	608\808	07/11 19:27

Anc	Area Not Checked	Ep	Extraction Performed Past Hold	Co	Warning Possible Carry Over
An	Area Out	Fsm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B8m	Blank 600 series missing	Etn	Tnln/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for eph
B8m	Blank 8000 series missing	Etn	Tnln Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing drlt or endrin
C18	Calibration Column 1 Out (8000 Series)	Hn	Sample Analyzed outside of hold time	R16 R26	Rnd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rnd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Rn	Retention Time Out Or %Diff Out
C8f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calrpt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Endrin Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a samol	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

Instrument: GC_6 Year: 2023
Analyst: AH/PR/KM

1-1-6G178537

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
6G178537.	CAL EVAL	Ee1=14;Ee2=17;Ed1=5.9;Ed2=8.5;	OK,V-387836	PR 07/19/23		Soil	1	1	8081	07/19 07:42
6G178538.	100PPB	Cn	NOT USED	PR 07/19/23		Soil	0.5	1	8081	07/19 07:57
6G178539.	CAL PEST@100PP		OK,V-395738	PR 07/19/23		Soil	0.5	1	608\808	07/19 08:38
6G178540.	SMB109524		OK	PR 07/19/23		Soil	1	1	8081	07/19 09:01
6G178541.	AD38798-002		OK WMB109471	PR 07/19/23	PE-8081	Aqueous	1	1	608\808	07/19 09:13
6G178542.	AD38953-003(MSD)		OK	PR 07/19/23	PE-8081	Soil	1	1	8081	07/19 09:25
6G178543.	SMB109502(MS)		OK SMB109502	PR 07/19/23		Soil	1	1	8081	07/19 09:45
6G178544.	AD38787-001(MSD)		OK	PR 07/19/23	PE-8081	Soil	1	1	8081	07/19 10:37
6G178545.	SMB109641(MS)		OK SMB109641	PR 07/19/23		Soil	1	1	8081	07/19 10:48
6G178546.	AD39065-001(MSD)		OK SMB109639	PR 07/19/23	PE-8081	Soil	1	1	8081	07/19 11:00
6G178547.	SMB109639(MS)		OK SMB109639	PR 07/19/23		Soil	1	1	8081	07/19 11:12
6G178548.	AD39070-003(MSD)		OK SMB109661	PR 07/19/23	PE-8081	Soil	1	1	8081	07/19 11:24
6G178549.	AD39065-001(MS)		OK SMB109639	PR 07/19/23	PE-8081	Soil	1	1	8081	07/19 11:35
6G178550.	SMB109661(MS)		OK SMB109661	PR 07/19/23		Soil	1	1	8081	07/19 11:47
6G178551.	AD39070-003(MS)		OK SMB109661	PR 07/19/23	PE-8081	Soil	1	1	8081	07/19 11:59
6G178552.	SMB109509(MS)		OK SMB109509	PR 07/19/23		Soil	1	1	8081	07/19 12:17
6G178553.	CAL PEST@100PP		OK	PR 07/19/23		Soil	0.5	1	608\808	07/19 12:39
6G178554.	SMB109676		OK	PR 07/19/23		Soil	1	1	8081	07/19 13:43
6G178555.	SMB109676(MS)		OK SMB109676	PR 07/19/23		Soil	1	1	8081	07/19 13:54
6G178556.	AD39061-005(MS)		OK SMB109676	PR 07/19/23	PE-8081	Soil	1	1	8081	07/19 14:06
6G178557.	AD39061-005(MSD)		OK SMB109676	PR 07/19/23	PE-8081	Soil	1	1	8081	07/19 14:18
6G178558.	AD39061-005		OK SMB109676	PR 07/19/23	PE-8081	Soil	1	1	8081	07/19 14:29
6G178559.	AD39061-002		OK CONFIRMED	PR 07/19/23	PE-8081	Soil	1	1	8081	07/19 14:41
6G178560.	AD39061-008		OK	PR 07/19/23	PE-8081	Soil	1	1	8081	07/19 14:53
6G178561.	AD39061-011		OK	PR 07/19/23	PE-8081	Soil	1	1	8081	07/19 15:05
6G178562.	AD39061-014		OK	PR 07/19/23	PE-8081	Soil	1	1	8081	07/19 15:16
6G178563.	AD39061-017		OK	PR 07/19/23	PE-8081	Soil	1	1	8081	07/19 15:28
6G178564.	AD39061-020		OK CONFIRMED	PR 07/19/23	PE-8081	Soil	1	1	8081	07/19 15:40
6G178565.	AD39061-023		OK CONFIRMED	PR 07/19/23	PE-8081	Soil	1	1	8081	07/19 15:52
6G178566.	AD39061-026		OK CONFIRMED	PR 07/19/23	PE-8081	Soil	1	1	8081	07/19 16:03
6G178567.	AD39061-029		OK	PR 07/19/23	PE-8081	Soil	1	1	8081	07/19 16:15
6G178568.	AD39061-032		OK	PR 07/19/23	PE-8081	Soil	1	1	8081	07/19 16:27
6G178569.	AD39061-035		OK	PR 07/19/23	PE-8081	Soil	1	1	8081	07/19 16:39
6G178570.	AD39027-007	Tmw	OK CONFIRMED	PR 07/19/23	PE-8081	Soil	1	1	808\808	07/19 16:50
6G178571.	AD39027-019		OK	PR 07/19/23	PE-8081	Soil	1	1	8081	07/19 17:02
6G178572.	AD39090-003		OK	PR 07/19/23	PE-8081	Soil	1	1	8081	07/19 17:14
6G178573.	AD39092-001		OK	PR 07/19/23	PE-8081	Soil	1	1	8081	07/19 17:25
6G178574.	CAL PEST@100PP	C16	OK	PR 07/19/23		Soil	0.5	1	808\808	07/19 17:43

Anc	Area Not Checked	Fo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Fsm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
R8m	Blank 600 series missing	Ftn	Tcln/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for anb
R8m	Blank 8000 series missing	Fto	Tcln Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Rnf	Blank Not Found/Assigned	Fv	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C18	Calibration Column 1 Out (600 Series)	Hh	Analysis Before Collection Date	Evrc	Eval Mix missing drlt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rnd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rnd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C8f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Endtop Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a samol	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-384611

Prepared By: Hamid, Akmal
Description: PEST/PCB GC LAB SURR (DANGER)
Prep Date: 11/28/2022
Expiration Date: 11/28/2023
Department: Organics
BatchNumber:
Concentration: 200 ppm
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 11/28/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14846	Decachlorobiphenyl	20 mg	NEAT neat	200 ppm
14847	2,4,5,6-Tetrachloro-m-xylene	20 mg	NEAT neat	200 ppm
14910	acetone	100 ml	neat neat	

Veritech Lot Number: V-388495

Prepared By: User, Organics
Description: BAKED SAND OTTAWA
Prep Date: 1/30/2023
Expiration Date: 2/13/2023
Department: Organics
BatchNumber:
Concentration: 1000 ppm
Final Volume: 4 ml
ApprovedBy: akmal
ApproveDate: 02/15/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14935	Sand Ottawa		neat neat	

Veritech Lot Number: V-393041

Prepared By: Rana, Priya
Description: PEST SPIKE (DANGER)
Prep Date: 4/6/2023
Expiration Date: 10/6/2023
Department: Organics
BatchNumber:
Concentration: 10 ppm
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 04/11/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15193	Pesticides Mix	500 ul	1000 ppm	10 ppm
15165	ACETONE	49.5 ml	Neat neat	

Veritech Lot Number: V-396477

Prepared By: McCracken, Kaitlyn
Description: PEST/PCB PREP SURR (danger)
Prep Date: 5/31/2023
Expiration Date: 11/28/2023
Department: Organics
BatchNumber:
Concentration: 10 ppm
Final Volume: 500 ml
ApprovedBy: akmal
ApproveDate: 06/01/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-384611	PEST/PCB GC LAB SURR (DANGER)	25 ml	200 ppm	10 ppm
15098	ACETONE	475 ml	neat neat	

Veritech Lot Number: V-398425

Prepared By: Patwala, Pooja
Description: BAKED SODIUM SULFATE
Prep Date: 6/28/2023
Expiration Date: 2/13/2023
Department: Organics
BatchNumber:
Concentration: 4000 g
Final Volume: 4000 g
ApprovedBy: akmal
ApproveDate: 07/05/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-388495	BAKED SAND OTTAWA		1000 ppm	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-384611

Prepared By: Hamid, Akmal
Description: PEST/PCB GC LAB SURR (DANGER)
Prep Date: 11/28/2022
Expiration Date: 11/28/2023
Department: Organics
BatchNumber:
Concentration: 200 ppm
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 11/28/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14846	Decachlorobiphenyl	20 mg	NEAT neat	200 ppm
14847	2,4,5,6-Tetrachloro-m-xylene	20 mg	NEAT neat	200 ppm
14910	acetone	100 ml	neat neat	

Veritech Lot Number: V-387836

Prepared By: Hamid, Akmal
Description: EVAL MIX (DANGER)
Prep Date: 1/16/2023
Expiration Date: 7/16/2023
Department: Organics
BatchNumber:
Concentration: 100 ppb
Final Volume: 25 ml
ApprovedBy: akmal
ApproveDate: 01/17/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14995	n-hexane	24983.75 ul	neat neat	
v-384611	PEST/PCB GC LAB SURR (DANGER)	12.5 ul	200 ppm	100 ppb
14700	4,4'-DDT STD.	2.5 ul	1000 ppm	100 ppb
14701	Endrin STD.	1.25 ul	1000 ppm	50 ppb

Veritech Lot Number: V-395684

Prepared By: Hamid, Akmal
Description: TOX ICV INTER (DANGER)
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber:
Concentration: 50 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15079	Toxaphene/Camphechlor Soln.	50 ul	1000 ppm	50 ppm
v-384611	PEST/PCB GC LAB SURR (DANGER)	25 ul	200 ppm	5 ppm
15168	N - HEXANE 95%	925 ul	NEAT neat	

Veritech Lot Number: V-395686

Prepared By: Hamid, Akmal
Description: ICV@TOXAPHENE (DANGER)
Prep Date: 5/17/2023
Expiration Date: 11/17/2023
Department: Organics
BatchNumber:
Concentration: 500 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-395684	TOX ICV INTER (DANGER)	100 ul	50 ppm	500 ppb
15168	N - HEXANE 95%	9900 ul	NEAT neat	

Veritech Lot Number: V-395721

Prepared By: Hamid, Akmal
Description: TOXAPHENE INTER (DANGER)
Prep Date: 5/18/2023
Expiration Date: 11/18/2023
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	850 ul	Neat neat	
v-384611	PEST/PCB GC LAB SURR (DANGER)	50 ul	200 ppm	10 ppm
14186	Toxaphene/Camphechlor Sol.	100 ul	1000 ppm	100 ppm

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-395722

Prepared By: Hamid, Akmal
Description: TOX@50PPB (DANGER)
Prep Date: 5/18/2023
Expiration Date: 11/18/2023
Department: Organics
BatchNumber: B-34825
Concentration: 50 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9000 ul	Neat neat	
V-395724	TOX@500PPB (DANGER)	1000 ul	500 ppb	50-5 ppb

Veritech Lot Number: V-395723

Prepared By: Hamid, Akmal
Description: TOX@200PPB (DANGER)
Prep Date: 5/18/2023
Expiration Date: 11/18/2023
Department: Organics
BatchNumber: B-34825
Concentration: 200 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9000	Neat neat	
V-395726	TOX@2000PPB (DANGER)	1000	2000 ppb	200-20 ppb

Veritech Lot Number: V-395724

Prepared By: Hamid, Akmal
Description: TOX@500PPB (DANGER)
Prep Date: 5/18/2023
Expiration Date: 11/18/2023
Department: Organics
BatchNumber: B-34825
Concentration: 500 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9950 ul	Neat neat	
V-395721	TOXAPHENE INTER (DANGER)	50 ul	100 ppm	500-50 ppb

Veritech Lot Number: V-395725

Prepared By: Hamid, Akmal
Description: TOX@1000PPB (DANGER)
Prep Date: 5/18/2023
Expiration Date: 11/18/2023
Department: Organics
BatchNumber: B-34825
Concentration: 1000 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9900 ul	Neat neat	
V-395721	TOXAPHENE INTER (DANGER)	100 ul	100 ppm	1000-100 pp

Veritech Lot Number: V-395726

Prepared By: Hamid, Akmal
Description: TOX@2000PPB (DANGER)
Prep Date: 5/18/2023
Expiration Date: 11/18/2023
Department: Organics
BatchNumber: B-34825
Concentration: 2000 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9800 ul	Neat neat	
V-395721	TOXAPHENE INTER (DANGER)	200 ul	100 ppm	2000-200 pp

Veritech Lot Number: V-395727

Prepared By: Hamid, Akmal
Description: TOX@4000PPB (DANGER)
Prep Date: 5/18/2023
Expiration Date: 11/18/2023
Department: Organics
BatchNumber: B-34825
Concentration: 4000 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9600 ul	Neat neat	
V-395721	TOXAPHENE INTER (DANGER)	400 ul	100 ppm	4000-400 pp

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-395731

Prepared By: Hamid, Akmal
Description: CHLOR INTER (DANGER)
Prep Date: 5/18/2023
Expiration Date: 11/18/2023
Department: Organics
BatchNumber:
Concentration: 10 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 05/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	940 ul	Neat neat	
v-384611	PEST/PCB GC LAB SURR (DANGER)	50 ul	200 ppm	10 ppm
14842	Chlordane STD.	10 ul	1000 ppm	10 ppm

Veritech Lot Number: V-395733

Prepared By: Hamid, Akmal
Description: CAL CHLORDANE@100PPB (DANGE
Prep Date: 5/18/2023
Expiration Date: 11/18/2023
Department: Organics
BatchNumber:
Concentration: 100 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9900 ul	Neat neat	
V-395731	CHLOR INTER (DANGER)	100 ul	10 ppm	100 ppb

Veritech Lot Number: V-395734

Prepared By: Hamid, Akmal
Description: PEST INTERM. (DANGER)
Prep Date: 5/18/2023
Expiration Date: 11/18/2023
Department: Organics
BatchNumber:
Concentration: 10 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9450 ul	Neat neat	
v-384611	PEST/PCB GC LAB SURR (DANGER)	500 ul	200 ppm	10 ppm
14482	Organochlorine Pesticide Mix AB#3	50 ul	2000 ppm	10 ppm

Veritech Lot Number: V-395736

Prepared By: Hamid, Akmal
Description: PEST 400PPB CURVE
Prep Date: 5/18/2023
Expiration Date: 11/18/2023
Department: Organics
BatchNumber: B-34826
Concentration: 400 ppb
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	48000 ul	Neat neat	
V-395734	PEST INTERM. (DANGER)	2000 ul	10 ppm	400 ppb

Veritech Lot Number: V-395737

Prepared By: Hamid, Akmal
Description: PEST 200PPB CURVE
Prep Date: 5/18/2023
Expiration Date: 11/18/2023
Department: Organics
BatchNumber: B-34826
Concentration: 200 ppb
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	49000 ul	Neat neat	
V-395734	PEST INTERM. (DANGER)	1000 ul	10 ppm	200 ppb

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-395738

Prepared By: Hamid, Akmal
Description: PEST 100PPB CURVE
Prep Date: 5/18/2023
Expiration Date: 11/18/2023
Department: Organics
BatchNumber: B-34826
Concentration: 100 ppb
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	49500 ul	Neat neat	
V-395734	PEST INTERM. (DANGER)	500 ul	10 ppm	100 ppb

Veritech Lot Number: V-395739

Prepared By: Hamid, Akmal
Description: PEST 50PPB CURVE
Prep Date: 5/18/2023
Expiration Date: 11/18/2023
Department: Organics
BatchNumber: B-34826
Concentration: 50 ppb
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	49750 ul	Neat neat	
V-395734	PEST INTERM. (DANGER)	250 ul	10 ppm	50 ppb

Veritech Lot Number: V-395740

Prepared By: Hamid, Akmal
Description: PEST 10PPB CURVE
Prep Date: 5/18/2023
Expiration Date: 11/18/2023
Department: Organics
BatchNumber: B-34826
Concentration: 10 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9000 ul	Neat neat	
V-395738	PEST 100PPB CURVE	1000 ul	100 ppb	10 ppb

Veritech Lot Number: V-395741

Prepared By: Hamid, Akmal
Description: PEST 2PPB CURVE
Prep Date: 5/18/2023
Expiration Date: 11/18/2023
Department: Organics
BatchNumber: B-34826
Concentration: 2 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 05/18/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	9900 ul	Neat neat	
V-395737	PEST 200PPB CURVE	100 ul	200 ppb	2 ppb

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15245

Description
Sulfuric Acid

ApprovedBy: jean
ApproveDate: 05/05/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J. T .B AKER	9684-03	22H0962009	04/28/23	06/27/27	Cajuste, Pierre	18	2.5 L	Neat	Neat

Veritech Control/Receipt Number: 15357

Description
Dichloromethane

ApprovedBy: akmal
ApproveDate: 06/13/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco/EMD	DX0831	63083	06/12/23	06/11/28	Lopez, Jose	100	4L	neat	neat

Veritech Control/Receipt Number: 15370

Description
n-hexane

ApprovedBy: jean
ApproveDate: 06/23/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Tedia	HG4840	23050151	06/22/23	05/10/26	Lopez, Jose	4	4L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14846

Description
Decachlorobiphenyl

ApprovedBy: akmal
ApproveDate: 09/26/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	BZ-209-10MG	13660800	09/26/22	09/30/24	Hamid, Akmal	3	10MG	NEAT	NEAT

Veritech Control/Receipt Number: 14847

Description
2,4,5,6-Tetrachloro-m-xylene

ApprovedBy: akmal
ApproveDate: 09/26/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-10542-100MG	13555000	09/26/22	10/31/26	Hamid, Akmal	3	100M	NEAT	NEAT

Veritech Control/Receipt Number: 14910

Description
acetone

ApprovedBy: jean
ApproveDate: 11/04/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9254-03	21J3062001	11/01/22	09/19/24	Lopez, Jose	2	4L	neat	neat

Veritech Control/Receipt Number: 14935

Description
Sand Ottawa

ApprovedBy: jean
ApproveDate: 11/17/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Lab Sales Service	LSD2001100	-092122	11/15/22	11/13/27	Lopez, Jose	4	3kg	neat	neat

Veritech Control/Receipt Number: 15098

Description
ACETONE

ApprovedBy: akmal
ApproveDate: 02/15/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Tedia	AA1111	22070110	02/09/23	07/23/24	Lopez, Jose	48	4L	neat	neat

Veritech Control/Receipt Number: 15165

Description
ACETONE

ApprovedBy: akmal
ApproveDate: 03/20/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
TEDIA	AA1111	22070110	03/17/23	03/16/28	Lopez, Jose	28	4L	Neat	Neat

Veritech Control/Receipt Number: 15193

Description
Pesticides Mix

ApprovedBy: akmal
ApproveDate: 04/11/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	M-8081-SC	220061191-01	04/05/23	07/06/25	Revolus, Jean	2	1ml	1000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14186

Description: Toxaphene/Camphechlor Sol.

ApprovedBy: akmal
ApproveDate: 09/15/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	S-13586J4-1ML	12062100	09/14/21	07/31/26	Hamid, Akmal	5	1ML	1000	PPM

Veritech Control/Receipt Number: 14482

Description: Organochlorine Pesticide Mix AB#3

ApprovedBy: akmal
ApproveDate: 03/10/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Restek	32415	A0175346	03/10/22	12/31/25	Hamid, Akmal	1	1ML	2000	PPM

Veritech Control/Receipt Number: 14700

Description: 4,4'-DDT STD.

ApprovedBy: akmal
ApproveDate: 06/27/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Restek	32203	A0185083	06/27/22	09/30/26	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 14701

Description: Endrin STD.

ApprovedBy: akmal
ApproveDate: 06/27/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Restek	32463	A0185034	06/27/22	05/31/26	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 14842

Description: Chlordane STD.

ApprovedBy: akmal
ApproveDate: 09/26/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Agilent	PST-110M1000	0006689832	09/26/22	07/31/24	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 14846

Description: Decachlorobiphenyl

ApprovedBy: akmal
ApproveDate: 09/26/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	BZ-209-10MG	13660800	09/26/22	09/30/24	Hamid, Akmal	3	10MG	NEAT	NEAT

Veritech Control/Receipt Number: 14847

Description: 2,4,5,6-Tetrachloro-m-xylene

ApprovedBy: akmal
ApproveDate: 09/26/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-10542-100MG	13555000	09/26/22	10/31/26	Hamid, Akmal	3	100M	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14910

Description: acetone

ApprovedBy: jean
ApproveDate: 11/04/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9254-03	21J3062001	11/01/22	09/19/24	Lopez, Jose	2	4L	neat	neat

Veritech Control/Receipt Number: 14995

Description: n-hexane

ApprovedBy: akmal
ApproveDate: 12/23/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Tedia	HA1721	22090086	12/22/22	10/19/24	Lopez, Jose	48	4L	neat	neat

Veritech Control/Receipt Number: 15079

Description: Toxaphene/Camphechlor Soln.

ApprovedBy: akmal
ApproveDate: 02/15/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	S-13586J4-1ML	13577800	02/03/23	07/31/26	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 15168

Description: N - HEXANE 95%

ApprovedBy: akmal
ApproveDate: 03/23/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
TEDIA	HA1721	22090086	03/23/23	03/22/28	Lopez, Jose	48	4L	NEAT	NEAT

Veritech Control/Receipt Number: 15192

Description: HEXANE

ApprovedBy: akmal
ApproveDate: 04/11/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
TEDIA	HA1721	22090086	04/04/23	04/03/28	Longton, Rhys	60	4L	Neat	Neat

GC Herbicide Data

GC Herbicide Data
QC Summary

FORM2

Surrogate Recovery

Method: EPA 8151A

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column2 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
12G42110.D	WMB109463	A	06/30/23 11:04	1		88	103				
12G42114.D	AD38798-002	A	06/30/23 12:23	1		96	113				
12G42112.D	AD38798-004(MS:AD38	A	06/30/23 11:44	1		87	102				
12G42113.D	AD38798-005(MSD:AD3	A	06/30/23 12:03	1		80	98				
12G42115.D	AD38798-006	A	06/30/23 12:43	1		99	115				
12G42116.D	AD38798-007	A	06/30/23 13:04	1		86	105				
12G42111.D	WMB109463(MS)	A	06/30/23 11:24	1		88	109				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8151A

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=Dcaa-Surrogate	935.84	46-145
S2=Dcaa-Surrogate	935.84	46-145

Form3
Recovery Data Laboratory Limits
QC Batch: WMB109463

	Data File	Sample ID:	Analysis Date
Spike or Dup:	12G42111.D	WMB109463(MS)	6/30/2023 11:24:18 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8151 | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Dicamba	**1**	**315.08**	**0**	**376.08**	**84**	**25**	**130**
2,4-D	**1**	**323.91**	**0**	**376.08**	**86**	**10**	**130**
Silvex	**1**	**330.68**	**0**	**380.17**	**87**	**25**	**130**
2,4,5-T	**1**	**317.91**	**0**	**379.14**	**84**	**25**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form

Form3
Recovery Data Laboratory Limits
QC Batch: WMB109463

	Data File	Sample ID:	Analysis Date
Spike or Dup:	12G42112.D	AD38798-004(MS:AD38798-00	6/30/2023 11:44:08 AM
Non Spike(If applicable):	12G42114.D	AD38798-002	6/30/2023 12:23:55 PM
Inst Blank(If applicable):			

Method: 8151 Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Dicamba	1	302.72	0	376.08	80	25	130
2,4-D	1	302.49	0	376.08	80	10	130
Silvex	1	320.65	0	380.17	84	25	130
2,4,5-T	1	288.32	0	379.14	76	25	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	12G42113.D	AD38798-005(MSD:AD38798-0	6/30/2023 12:03:58 PM
Non Spike(If applicable):	12G42114.D	AD38798-002	6/30/2023 12:23:55 PM
Inst Blank(If applicable):			

Method: 8151 Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Dicamba	1	282.91	0	376.08	75	25	130
2,4-D	1	281.91	0	376.08	75	10	130
Silvex	1	297.87	0	380.17	78	25	130
2,4,5-T	1	282.46	0	379.14	75	25	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form

Form3
RPD Data Laboratory Limits
QC Batch: WMB109463

	Data File	Sample ID:	Analysis Date
Spike or Dup:	12G42113.D	AD38798-005(MSD:AD38798-0	6/30/2023 12:03:58 PM
Duplicate(If applicable):	12G42112.D	AD38798-004(MS:AD38798-00	6/30/2023 11:44:08 AM
Inst Blank(If applicable):			

Method: 8151 Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Dicamba	1	282.91	302.72	6.8	40
2,4-D	1	281.91	302.49	7	40
Silvex	1	297.87	320.65	7.4	40
2,4,5-T	1	282.46	288.32	2.1	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: WMB109463
Blank Data File: 12G42110.D
Matrix: Aqueous

Blank Analysis Date: 06/30/23 11:04
Blank Extraction Date: 06/29/23
(If Applicable)
Method: EPA 8151A

Sample Number	Data File	Analysis Date
AD38798-002	12G42114.D	06/30/23 12:23
AD38798-004(MS:	12G42112.D	06/30/23 11:44
AD38798-005(MSD	12G42113.D	06/30/23 12:03
AD38798-006	12G42115.D	06/30/23 12:43
AD38798-007	12G42116.D	06/30/23 13:04
WMB109463(MS)	12G42111.D	06/30/23 11:24

Form 5

Method: EPA 8151A

Instrument: GC_12 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
12G41150.D	CAL HERB@50PPB	05/22/23 09:11	Aqueous	12G4115	8.0932	0	8.2552	0
12G41151.D	CAL HERB@100PPB	05/22/23 09:31	Aqueous	12G4115	8.0923	0.0111	8.2570	0.0218
12G41152.D	CAL HERB@200PPB	05/22/23 09:51	Aqueous	12G4115	8.0926	0.0074	8.2571	0.023
12G41153.D	CAL HERB@400PPB	05/22/23 10:11	Aqueous	12G4115	8.0938	0.0074	8.2576	0.0291
12G41154.D	CAL HERB@500PPB	05/22/23 10:31	Aqueous	12G4115	8.0943	0.0136	8.2574	0.0266
12G41155.D	CAL HERB@600PPB	05/22/23 10:51	Aqueous	12G4115	8.0942	0.0124	8.2578	0.0315
12G41156.D	ICV HERB	05/22/23 11:16	Aqueous	12G4115	8.0932	0	8.2565	0.0157
12G41157.D	TEST	05/22/23 11:36	Aqueous	12G4115	8.0925	0.0086	8.2575	0.0278
12G41158.D	WMB108540	05/22/23 12:20	Aqueous	12G4115	8.0922	0.0124	8.2550	0.0024
12G41159.D	WMB108540(MS)	05/22/23 12:40	Aqueous	12G4115	8.0910	0.0272	8.2563	0.0133
12G41160.D	AD37540-006	05/22/23 13:00	Aqueous	12G4115	8.0914	0.0222	8.2564	0.0145
12G41161.D	AD37540-006(5X)	05/22/23 13:25	Aqueous	12G4115	8.0909	0.0284	8.2557	0.0061
12G41162.D	37540-006(10X)	05/22/23 13:45	Aqueous	12G4115	8.0890	0.0519	8.2562	0.0121
12G41163.D	AD37977-001(T)(MS)	05/22/23 14:11	Aqueous	12G4115	8.0922	0.0124	8.2561	0.0109
12G41164.D	AD37977-001(T)(MSD)	05/22/23 14:43	Aqueous	12G4115	8.0927	0.0062	8.2556	0.0048
12G41165.D	WMB108507	05/22/23 15:03	Aqueous	12G4115	8.0906	0.0321	8.2568	0.0194
12G41166.D	WMB108507(MS)	05/22/23 15:23	Aqueous	12G4115	8.0907	0.0309	8.2570	0.0218
12G41167.D	AD37999-001	05/22/23 15:42	Aqueous	12G4115	8.0905	0.0334	8.2573	0.0254
12G41168.D	AD38008-004(T)	05/22/23 16:02	Aqueous	12G4115	8.0899	0.0408	8.2573	0.0254
12G41169.D	AD38008-003(T)	05/22/23 16:22	Aqueous	12G4115	8.0894	0.047	8.2567	0.0182
12G41170.D	AD38008-001(T)	05/22/23 16:42	Aqueous	12G4115	8.0899	0.0408	8.2571	0.023
12G41171.D	CAL HERB@200PPB	05/22/23 17:02	Aqueous	12G4115	8.0898	0.042	8.2575	0.0278

Drift Compound: Dcaa-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8151A

Instrument: GC_12 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
12G42099.D	CAL HERB@200PPB	06/30/23 07:25	Soil	12G4209	8.0581	0	8.2523	0
12G42100.D	WMB109464	06/30/23 07:46	Aqueous	12G4209	8.0571	0.0124	8.2543	0.0242
12G42101.D	WMB109464(MS)	06/30/23 08:05	Aqueous	12G4209	8.0565	0.0198	8.2549	0.0315
12G42102.D	AD38760-002(T)(MS)	06/30/23 08:25	Aqueous	12G4209	8.0573	0.0099	8.2551	0.0339
12G42103.D	AD38760-002(T)(MSD)	06/30/23 08:45	Aqueous	12G4209	8.0571	0.0124	8.2553	0.0363
12G42104.D	AD38790-003(T)	06/30/23 09:05	Aqueous	12G4209	8.0562	0.0236	8.2552	0.0351
12G42105.D	AD38790-004(T)	06/30/23 09:25	Aqueous	12G4209	8.0567	0.0174	8.2556	0.04
12G42106.D	AD38790-006(T)	06/30/23 09:45	Aqueous	12G4209	8.0569	0.0149	8.2550	0.0327
12G42107.D	AD38790-002(T)	06/30/23 10:05	Aqueous	12G4209	8.0555	0.0323	8.2546	0.0279
12G42108.D	AD38790-001(T)	06/30/23 10:24	Aqueous	12G4209	8.0566	0.0186	8.2549	0.0315
12G42109.D	AD38790-005(T)	06/30/23 10:44	Aqueous	12G4209	8.0559	0.0273	8.2553	0.0363
12G42110.D	WMB109463	06/30/23 11:04	Aqueous	12G4209	8.0570	0.0136	8.2556	0.04
12G42111.D	WMB109463(MS)	06/30/23 11:24	Aqueous	12G4209	8.0569	0.0149	8.2563	0.0485
12G42112.D	AD38798-004(MS:AD38	06/30/23 11:44	Aqueous	12G4209	8.0562	0.0236	8.2550	0.0327
12G42113.D	AD38798-005(MSD:AD3	06/30/23 12:03	Aqueous	12G4209	8.0561	0.0248	8.2549	0.0315
12G42114.D	AD38798-002	06/30/23 12:23	Aqueous	12G4209	8.0563	0.0223	8.2552	0.0351
12G42115.D	AD38798-006	06/30/23 12:43	Aqueous	12G4209	8.0555	0.0323	8.2546	0.0279
12G42116.D	AD38798-007	06/30/23 13:04	Aqueous	12G4209	8.0557	0.0298	8.2547	0.0291
12G42117.D	EF-1-V-397759(06/27/23	06/30/23 13:24	Aqueous	12G4209	8.0561	0.0248	8.2547	0.0291
12G42118.D	AD38760-002(T)	06/30/23 13:44	Aqueous	12G4209	8.0561	0.0248	8.2551	0.0339
12G42119.D	CAL HERB@200PPB	06/30/23 14:04	Soil	12G4209	8.0584	0.0037	8.2563	0.0485
12G42120.D	SMB109474	06/30/23 14:24	Soil	12G4211	8.0555	0.036	8.2539	0.0291
12G42121.D	SMB109474(MS)	06/30/23 14:44	Soil	12G4211	8.0584	0	8.2556	0.0085
12G42122.D	AD38708-004	06/30/23 15:03	Soil	12G4211	8.0111	0.5887	8.2745	0.2202
12G42123.D	AD38708-002	06/30/23 15:23	Soil	12G4211	8.0546	0.0472	8.2543	0.0242
12G42124.D	AD38708-006	06/30/23 15:44	Soil	12G4211	8.0557	0.0335	8.2543	0.0242
12G42125.D	AD38708-004(MS)	06/30/23 16:04	Soil	12G4211	8.0554	0.0372	8.2540	0.0279
12G42126.D	AD38708-004(MSD)	06/30/23 16:24	Soil	12G4211	8.0556	0.0348	8.2545	0.0218
12G42127.D	TEST SURROGATE	06/30/23 16:44	Soil	12G4211	8.0574	0.0124	8.2562	0.0012
12G42128.D	CAL HERB@200PPB	06/30/23 17:04	Soil	12G4211	8.0585	0.0012	8.2568	0.0061

Drift Compound: Dcaa-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

GC Herbicide Data
Sample Data

Form1

ORGANICS HERBICIDE REPORT

Sample Number: AD38798-002
Client Id: MW-2_6.22.23
Data File: 12G42114.D
Analysis Date: 06/30/23 12:23
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8151A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 10ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
93-76-5	2,4,5-T	0.47	U	1918-00-9	Dicamba	0.47	U
94-75-7	2,4-D	0.47	U	93-72-1	Silvex	0.48	U

Worksheet #: 700850

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-30-23\
Data File : 12G42114.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-Jun-23, 12:23:55
Operator : PR/KM/AH
Sample : AD38798-002
Misc : A,HERB
ALS Vial : 35 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 13:10:39 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
2)Dcaa-Surrogate	8.056	8.255	487.6E6	140.1E6	896.483m	1055.313m

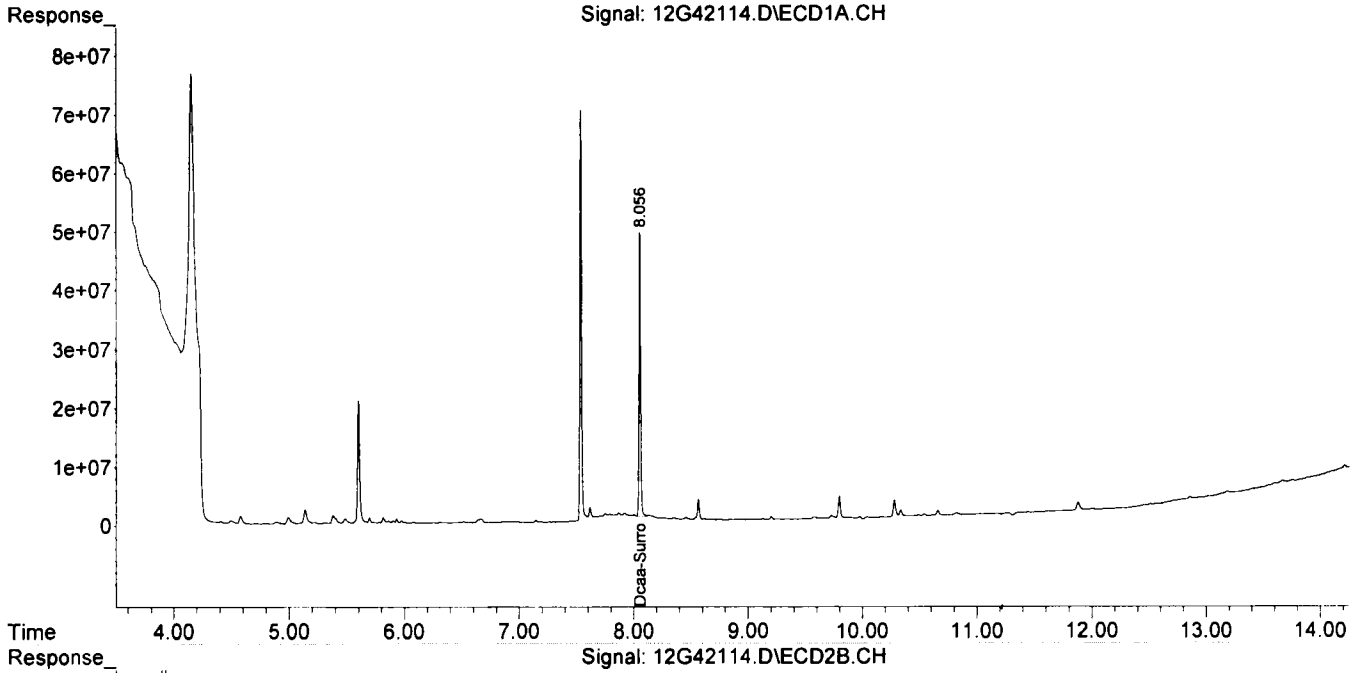
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

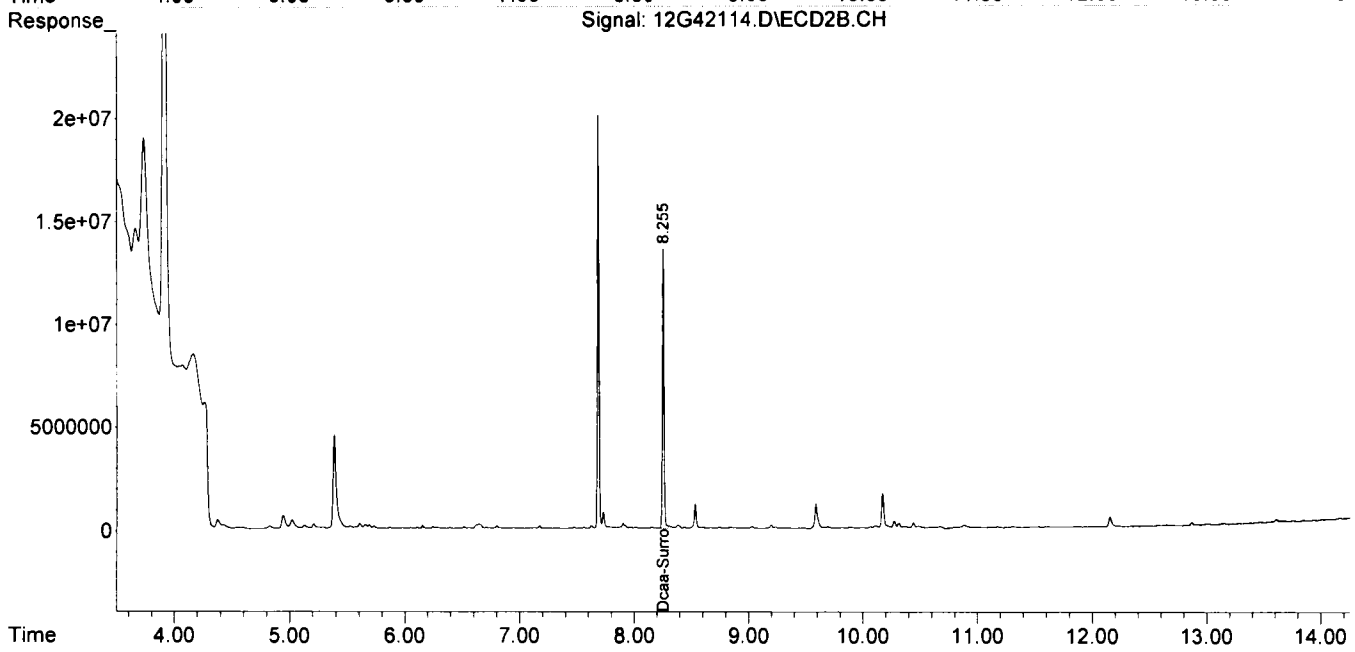
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-30-23\
Data File : 12G42114.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-Jun-23, 12:23:55
Operator : PR/KM/AH
Sample : AD38798-002
Misc : A,HERB
ALS Vial : 35 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 13:10:39 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS HERBICIDE REPORT

Sample Number: AD38798-004(MS:AD38
Client Id: MW-2_6.22.23-MS
Data File: 12G42112.D
Analysis Date: 06/30/23 11:44
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8151A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 10ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
93-76-5	**(^)2,4,5-T**	**0.47**	**3.1 R**	**1918-00-9**	**(^)Dicamba**	**0.47**	**3.2 R**
94-75-7	**(^)2,4-D**	**0.47**	**3.3 R**	**93-72-1**	**(^)Silvex**	**0.48**	**3.3 R**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-30-23\
Data File : 12G42112.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-Jun-23, 11:44:08
Operator : PR/KM/AH
Sample : AD38798-004(MS:AD38798-002) (Sig #1); AD38798-004(MS) (Sig #2)
Misc : A,HERB
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 12:21:15 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
1)Dalapon	4.481	4.490	177.9E6	50877765	250.703	261.614
2)Dcaa-Surrogate	8.056	8.255	441.0E6	127.1E6	810.909m	957.332m
3)Dicamba	8.195	8.441	610.1E6	165.1E6	302.719m	321.163
4)Dichloroprop	8.741	8.837	144.0E6	47718106	287.677	375.974 #
5)2,4-D	9.033	9.170	167.6E6	52991600	302.493	325.565
6)Silvex	9.596	9.694	926.6E6	248.3E6	320.655	334.896
7)2,4,5-T	9.978	10.121	738.9E6	209.5E6	288.317	310.454
8)2,4-DB	10.379	10.483	126.3E6	41431128	403.501	444.909
9)Dinoseb	10.867	10.210	349.2E6	108.5E6	199.801	214.602
10)Picloram	11.875	12.150	791.8E6	216.3E6	276.790	300.388

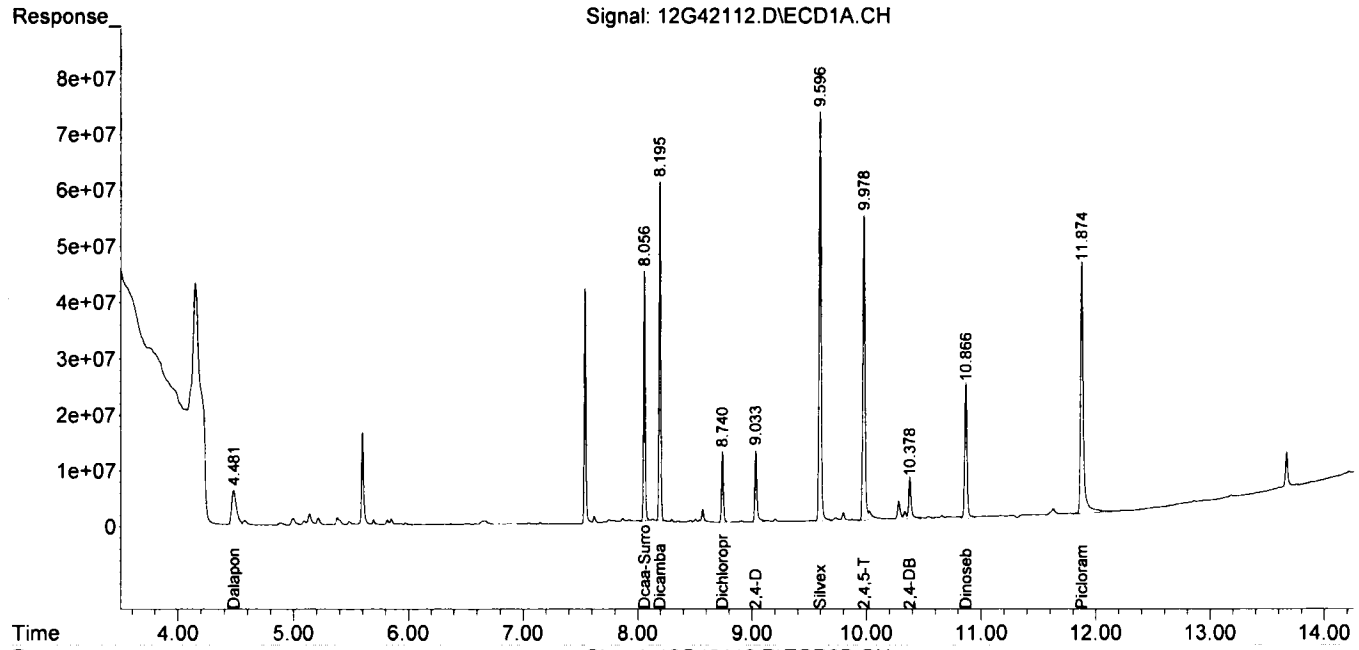
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

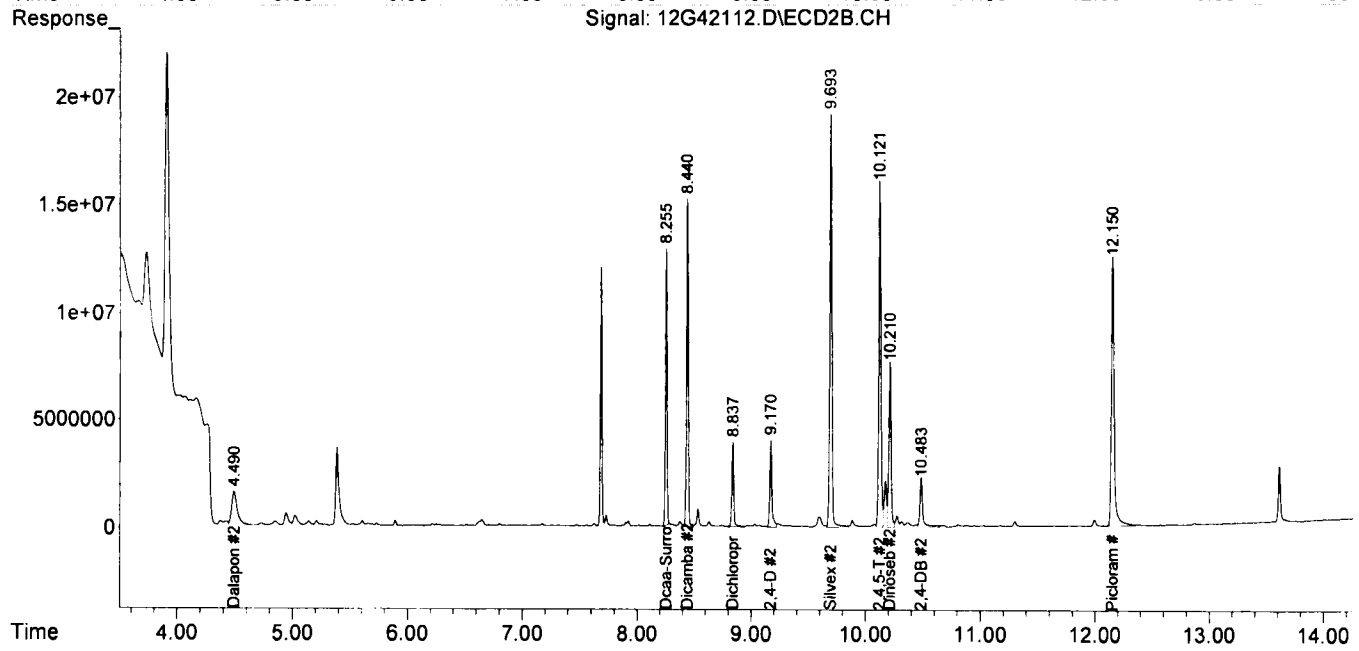
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-30-23\
Data File : 12G42112.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-Jun-23, 11:44:08
Operator : PR/KM/AH
Sample : AD38798-004(MS:AD38798-002) (Sig #1); AD38798-004(MS) (Sig #2)
Misc : A,HERB
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 12:21:15 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS HERBICIDE REPORT

Sample Number: AD38798-005(MSD:AD
Client Id: MW-2_6.22.23-MSD
Data File: 12G42113.D
Analysis Date: 06/30/23 12:03
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8151A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 10ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
93-76-5	(^)2,4,5-T	0.47	2.9 R	1918-00-9	(^)Dicamba	0.47	3.0 R
94-75-7	(^)2,4-D	0.47	3.1 R	93-72-1	(^)Silvex	0.48	3.1 R

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-30-23\
Data File : 12G42113.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-Jun-23, 12:03:58
Operator : PR/KM/AH
Sample : AD38798-005(MSD:AD38798-002) (Sig #1); AD38798-004(MSD) (Sig #2)
Misc : A,HERB
ALS Vial : 34 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 12:21:59 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2	
Target Compounds							
1)Dalapon	4.482	4.492	168.6E6	48272877	237.596	248.220	
2)Dcaa-Surrogate	8.056	8.255	406.2E6	121.6E6	746.825m	916.195	
3)Dicamba	8.195	8.440	570.2E6	155.3E6	282.906m	302.078	
4)Dichloroprop	8.741	8.836	135.6E6	45362004	270.910	357.410	#
5)2,4-D	9.033	9.170	156.2E6	49840637	281.912	306.206	
6)Silvex	9.596	9.693	860.8E6	230.1E6	297.867	310.407	
7)2,4,5-T	9.978	10.121	723.9E6	193.5E6	282.462	286.719	
8)2,4-DB	10.378	10.483	118.4E6	37227941	378.156	399.773	
9)Dinoseb	10.867	10.210	308.8E6	96665911	176.682	191.176	
10)Picloram	11.876	12.150	714.8E6	201.6E6	254.408	280.032	

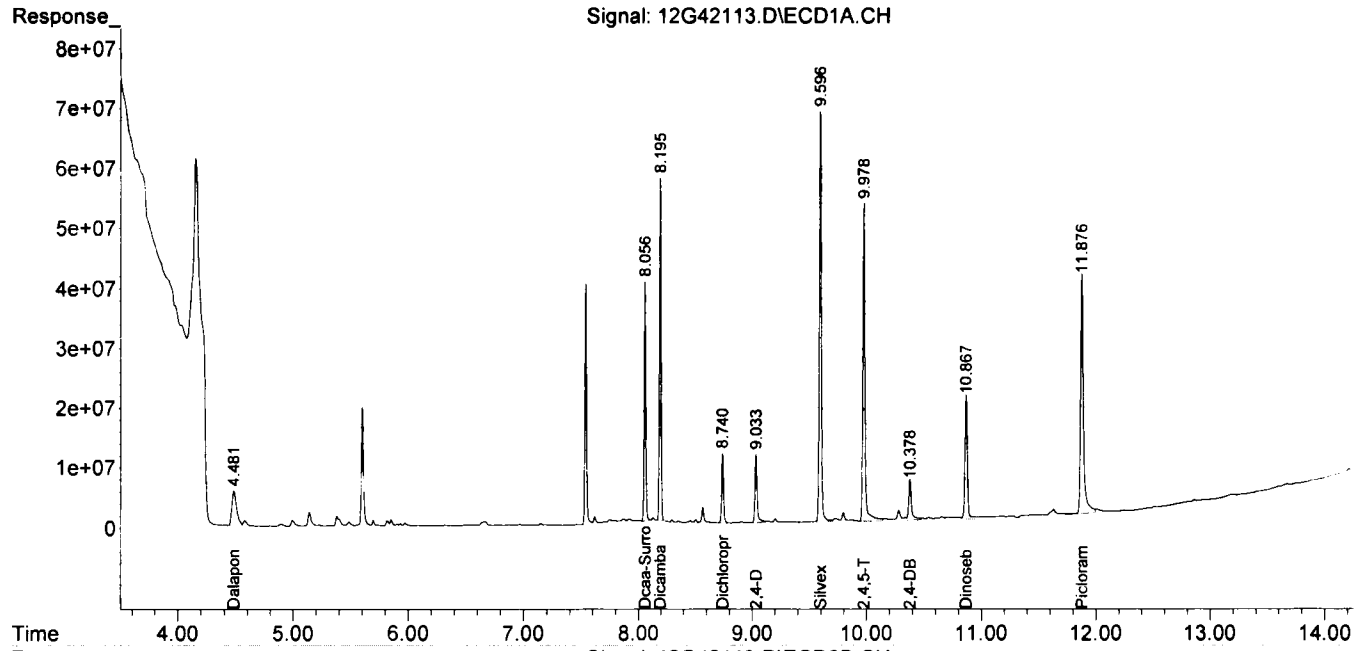
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

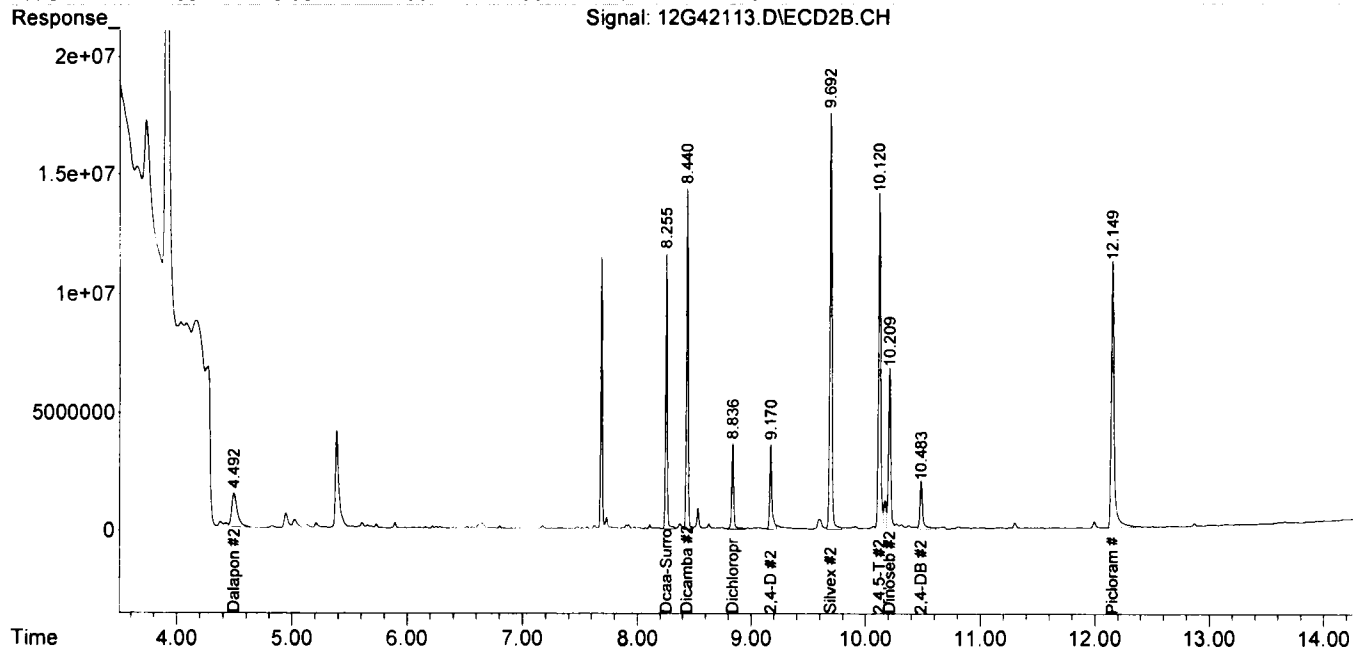
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-30-23\
Data File : 12G42113.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-Jun-23, 12:03:58
Operator : PR/KM/AH
Sample : AD38798-005(MSD:AD38798-002) (Sig #1); AD38798-004(MSD) (Sig #2)
Misc : A,HERB
ALS Vial : 34 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 12:21:59 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS HERBICIDE REPORT

Sample Number: AD38798-006
Client Id: DUP-1
Data File: 12G42115.D
Analysis Date: 06/30/23 12:43
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8151A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 10ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
93-76-5	2,4,5-T	0.47	U	1918-00-9	Dicamba	0.47	U
94-75-7	2,4-D	0.47	U	93-72-1	Silvex	0.48	U

Worksheet #: 700850

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-30-23\
Data File : 12G42115.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-Jun-23, 12:43:58
Operator : PR/KM/AH
Sample : AD38798-006
Misc : A,HERB
ALS Vial : 36 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 13:11:04 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
2)Dcaa-Surrogate	8.055	8.255	503.2E6	143.2E6	925.111m	1078.511m

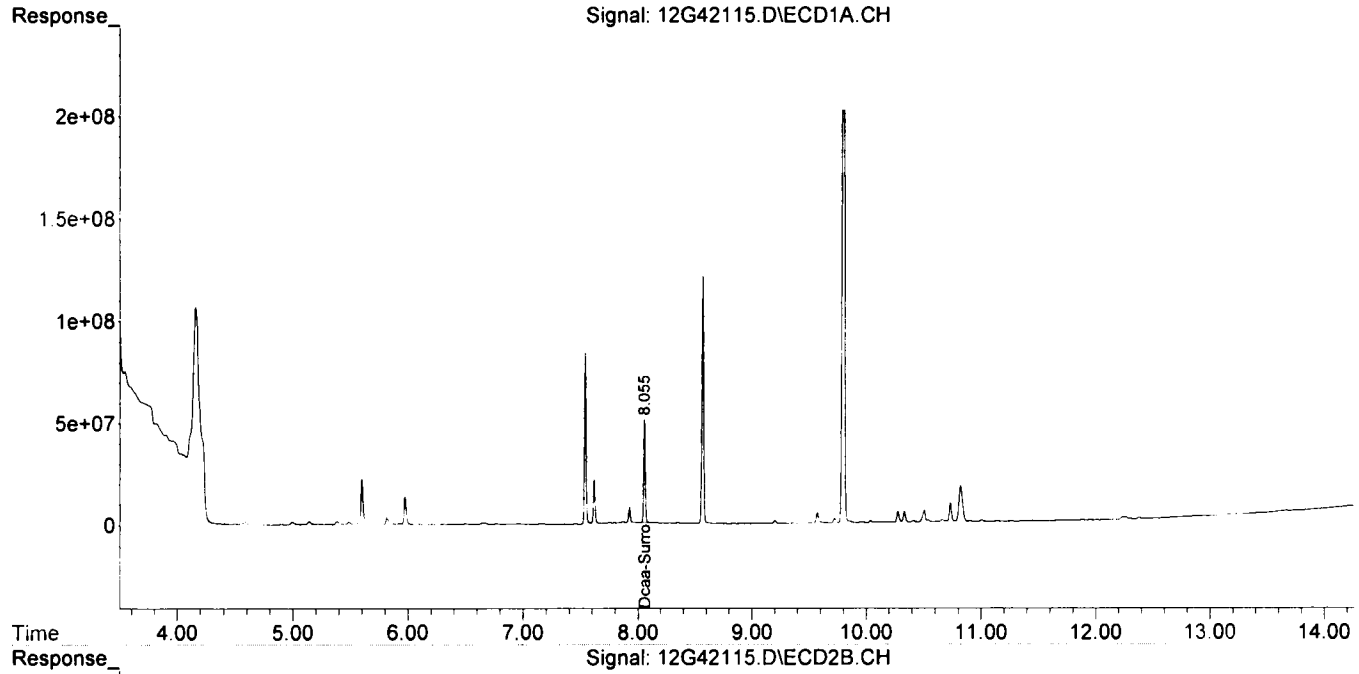
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

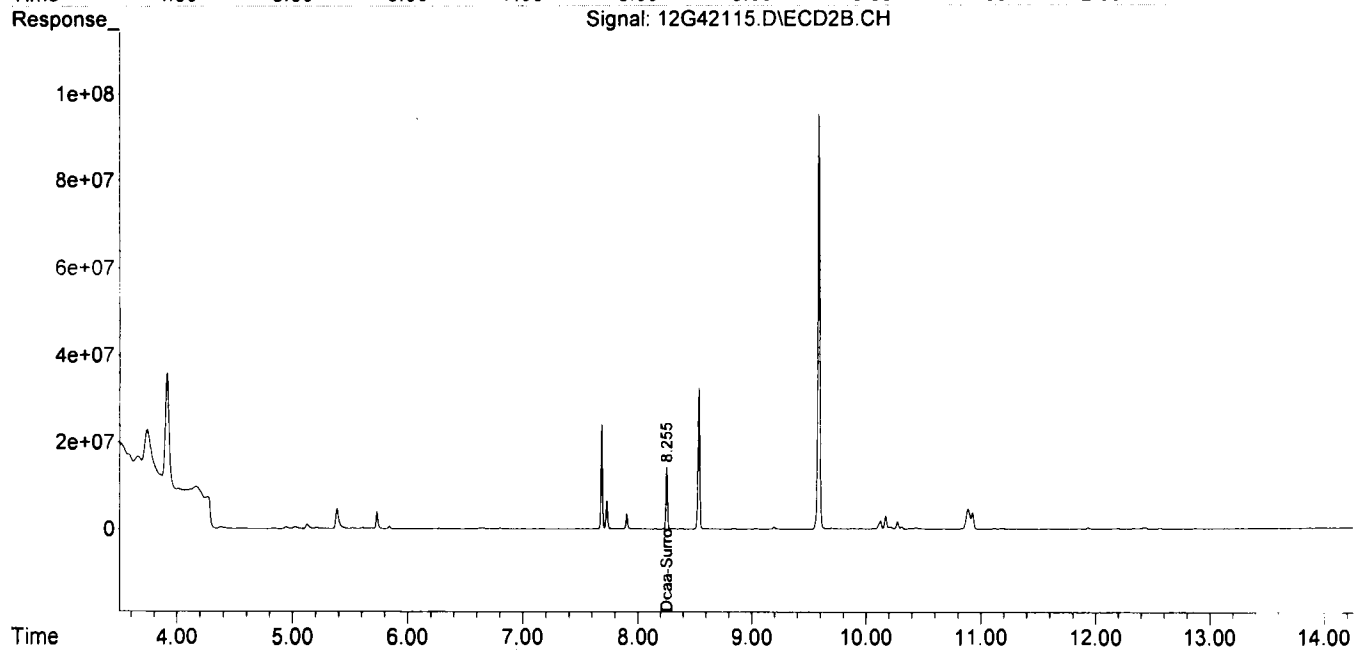
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-30-23\
Data File : 12G42115.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-Jun-23, 12:43:58
Operator : PR/KM/AH
Sample : AD38798-006
Misc : A,HERB
ALS Vial : 36 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 13:11:04 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS HERBICIDE REPORT

Sample Number: AD38798-007
Client Id: Field Blank
Data File: 12G42116.D
Analysis Date: 06/30/23 13:04
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8151A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 10ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
93-76-5	2,4,5-T	0.47	U	1918-00-9	Dicamba	0.47	U
94-75-7	2,4-D	0.47	U	93-72-1	Silvex	0.48	U

Worksheet #: 700850

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-30-23\
Data File : 12G42116.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-Jun-23, 13:04:01
Operator : PR/KM/AH
Sample : AD38798-007
Misc : A,HERB
ALS Vial : 37 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 13:24:09 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
2)Dcaa-Surrogate	8.056	8.255	438.2E6	130.3E6	805.742m	981.496

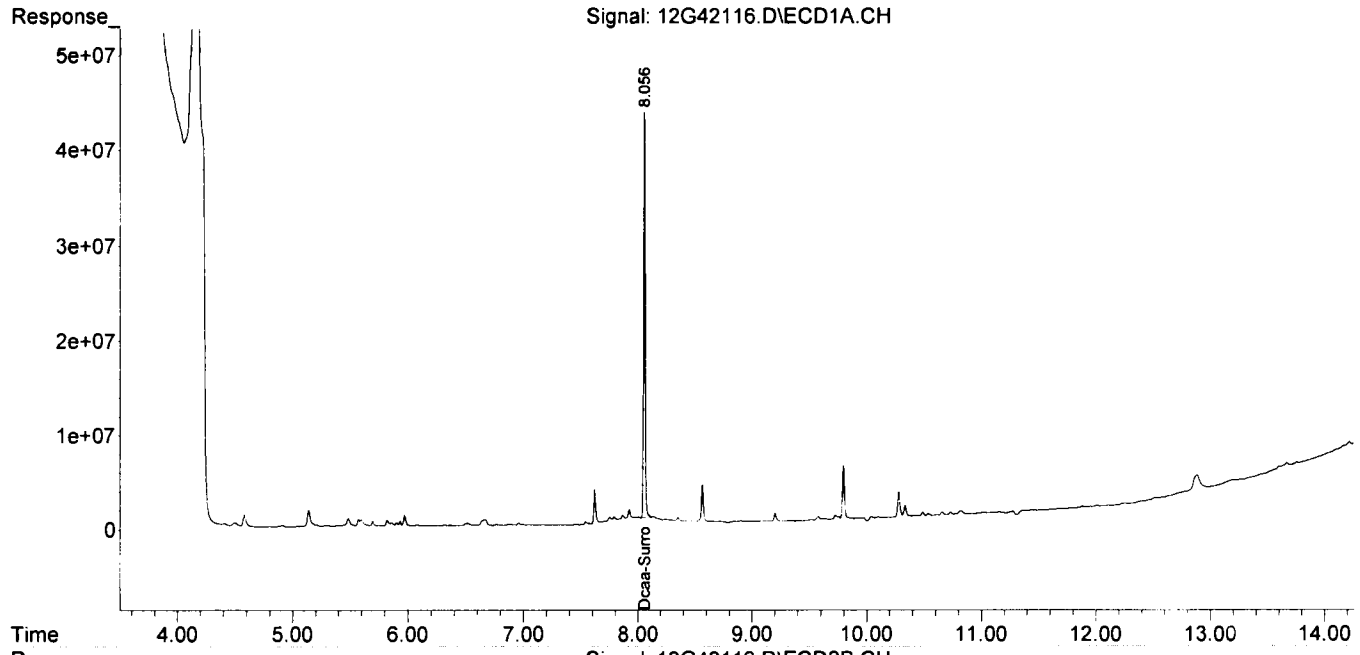
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

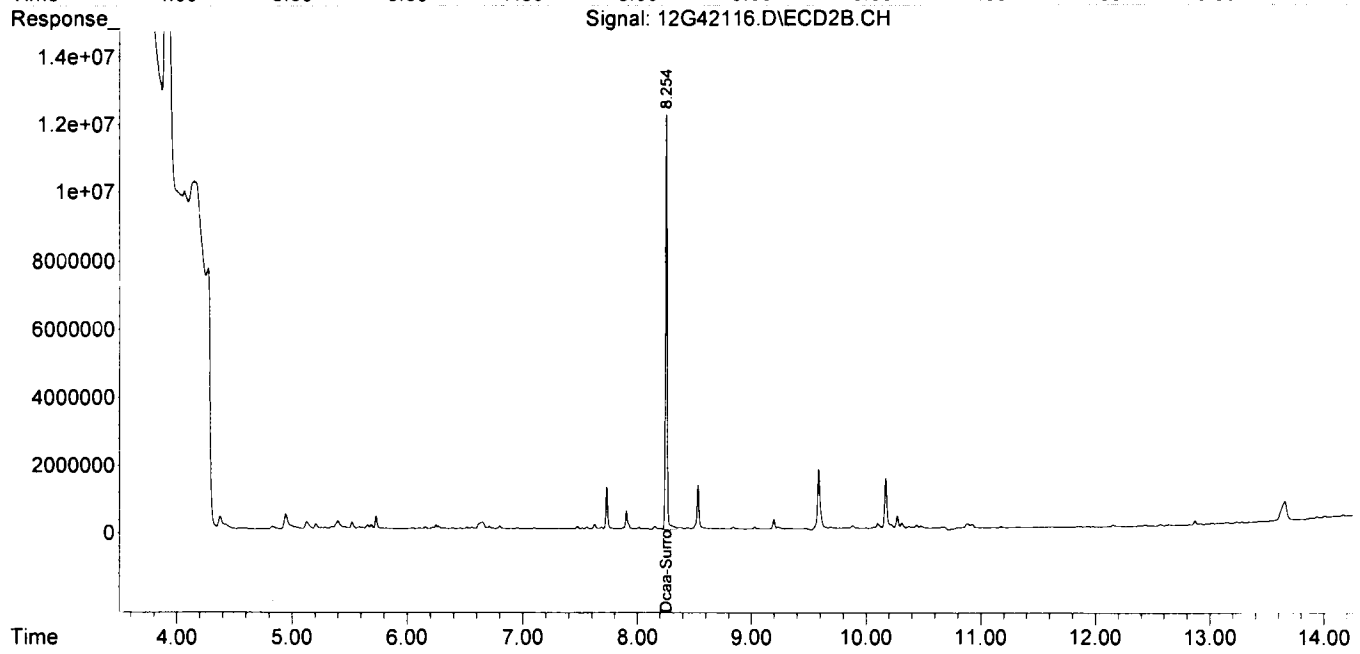
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-30-23\
Data File : 12G42116.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-Jun-23, 13:04:01
Operator : PR/KM/AH
Sample : AD38798-007
Misc : A,HERB
ALS Vial : 37 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 13:24:09 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





GC Herbicide Data
Standards Data

3062404 0766

Form 6

Initial Calibration

Method: EPA 8151A

Instrument: GC_12

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	12G41150.D	CAL HERB@50PPB	05/22/23 09:11	2	12G41151.D	CAL HERB@100PPB	05/22/23 09:31
3	12G41152.D	CAL HERB@200PPB	05/22/23 09:51	4	12G41153.D	CAL HERB@400PPB	05/22/23 10:11
5	12G41154.D	CAL HERB@500PPB	05/22/23 10:31	6	12G41155.D	CAL HERB@600PPB	05/22/23 10:51

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Dalapon	1	0	Avg	77.904	70.910	70.726	67.968	69.170	69.185	----	----	71.0	4.50	1.00	1.00	5.0	45.52	91.05	182.1	364.1	455.2	546.2		
Dcaa-Surrogate	1	0	Avg	50.050	47.680	51.513	56.937	59.516	60.632	----	----	54.4	8.09	0.998	1.00	9.9	233.9	467.9	935.8	1871.	2339.	2807.		
Dicamba	1	0	Avg	197.95	186.04	192.95	201.13	213.35	217.76	----	----	202	8.23	0.998	1.00	6.0	47.01	94.02	188.0	376.0	470.1	564.1		
Dichloroprop	1	0	Avg	54.539	49.599	49.350	48.068	49.280	49.404	----	----	50.0	8.79	1.00	1.00	4.5	47.18	94.36	188.7	377.4	471.7	566.1		
2,4-D	1	0	Avg	57.327	54.720	54.765	53.996	55.482	56.183	----	----	55.4	9.08	0.999	1.00	2.2	47.01	94.02	188.0	376.0	470.1	564.1		
Silvex	1	0	Avg	271.12	264.16	279.57	292.32	310.82	315.81	----	----	289	9.65	0.998	1.00	7.3	47.52	95.04	190.0	380.1	475.2	570.2		
2,4,5-T	1	0	Avg	233.99	234.63	246.24	259.27	279.87	283.75	----	----	256	10.03	0.997	0.999	8.5	47.39	94.79	189.5	379.1	473.9	568.7		
2,4-DB	1	0	Avg	31.426	30.439	31.150	30.794	31.842	32.189	----	----	31.3	10.44	0.999	1.00	2.1	47.33	94.66	189.3	378.6	473.2	567.9		
Dinoseb	1	0	Avg	161.10	161.54	171.69	177.10	186.56	190.49	----	----	175	10.94	0.998	1.00	7.1	47.24	94.47	188.9	377.8	472.3	566.8		
Picloram	1	0	Qua	167.41	229.43	270.95	306.17	337.79	348.56	----	----	277	11.93	0.996	0.999	25	47.25	94.50	189.0	378.0	472.5	567.0		
Dalapon	2	0	Avg	22.135	19.962	19.667	18.340	18.384	18.195	----	----	19.4	4.49	1.00	1.00	7.8	45.52	91.05	182.1	364.1	455.2	546.2		
Dcaa-Surrogate	2	0	Avg	13.859	12.931	13.071	12.945	13.339	13.508	----	----	13.3	8.26	0.999	1.00	2.8	233.9	467.9	935.8	1871.	2339.	2807.		
Dicamba	2	0	Avg	56.966	52.032	51.224	48.903	49.719	49.619	----	----	51.4	8.44	1.00	1.00	5.7	47.01	94.02	188.0	376.0	470.1	564.1		
Dichloroprop	2	0	Avg	14.103	13.370	12.859	11.928	11.998	11.891	----	----	12.7	8.84	1.00	1.00	7.2	47.18	94.36	188.7	377.4	471.7	566.1		
2,4-D	2	0	Avg	18.112	17.184	16.434	15.304	15.371	15.254	----	----	16.3	9.17	1.00	1.00	7.3	47.01	94.02	188.0	376.0	470.1	564.1		
Silvex	2	0	Avg	80.315	75.999	74.263	70.808	71.721	71.667	----	----	74.1	9.70	1.00	1.00	4.9	47.52	95.04	190.0	380.1	475.2	570.2		
2,4,5-T	2	0	Avg	70.407	68.885	68.063	65.232	66.131	66.248	----	----	67.5	10.12	1.00	1.00	2.9	47.39	94.79	189.5	379.1	473.9	568.7		
2,4-DB	2	0	Avg	9.7970	9.8432	9.5399	8.9272	8.9084	8.8575	----	----	9.31	10.48	1.00	1.00	5.0	47.33	94.66	189.3	378.6	473.2	567.9		
Dinoseb	2	0	Avg	54.875	52.288	51.216	48.183	48.402	48.415	----	----	50.6	10.21	1.00	1.00	5.4	47.24	94.47	188.9	377.8	472.3	566.8		
Picloram	2	0	Avg	54.562	70.369	75.222	75.459	77.846	78.493	----	----	72.0	12.15	1.00	1.00	13	47.25	94.50	189.0	378.0	472.5	567.0		

Avg Rsd Col 1: 7.76 Avg Rsd Col 2: 6.14

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pch/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\05-22-23\
Data File : 12G41150.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-May-23, 09:11:59
Operator : PR/KM/AH
Sample : CAL HERB@50PPB
Misc : A,HERB
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 11:19:43 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Mon May 22 11:12:08 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
1)Dalapon	4.500	4.482	35462232	10075915	49.963	51.811
2)Dcaa-Surrogate	8.093	8.255	117.1E6	32425024	215.301	244.242
3)Dicamba	8.235	8.440	93057825	26780118	46.174	52.090
4)Dichloroprop	8.791	8.837	25731767	6653991	51.428m	51.959m
5)2,4-D	9.081	9.170	26949705	8514624	48.635	52.311
6)Silvex	9.654	9.693	128.8E6	38165827	44.586	51.486
7)2,4,5-T	10.035	10.121	110.9E6	33366224	43.267	49.435
8)2,4-DB	10.443	10.483	14874353	4636926	47.511	49.499m
9)Dinoseb	10.937	10.210	76107876	25923286	43.552	51.250
10)Picloram	11.932	12.147	79104936	25780738	28.603m	35.810 #

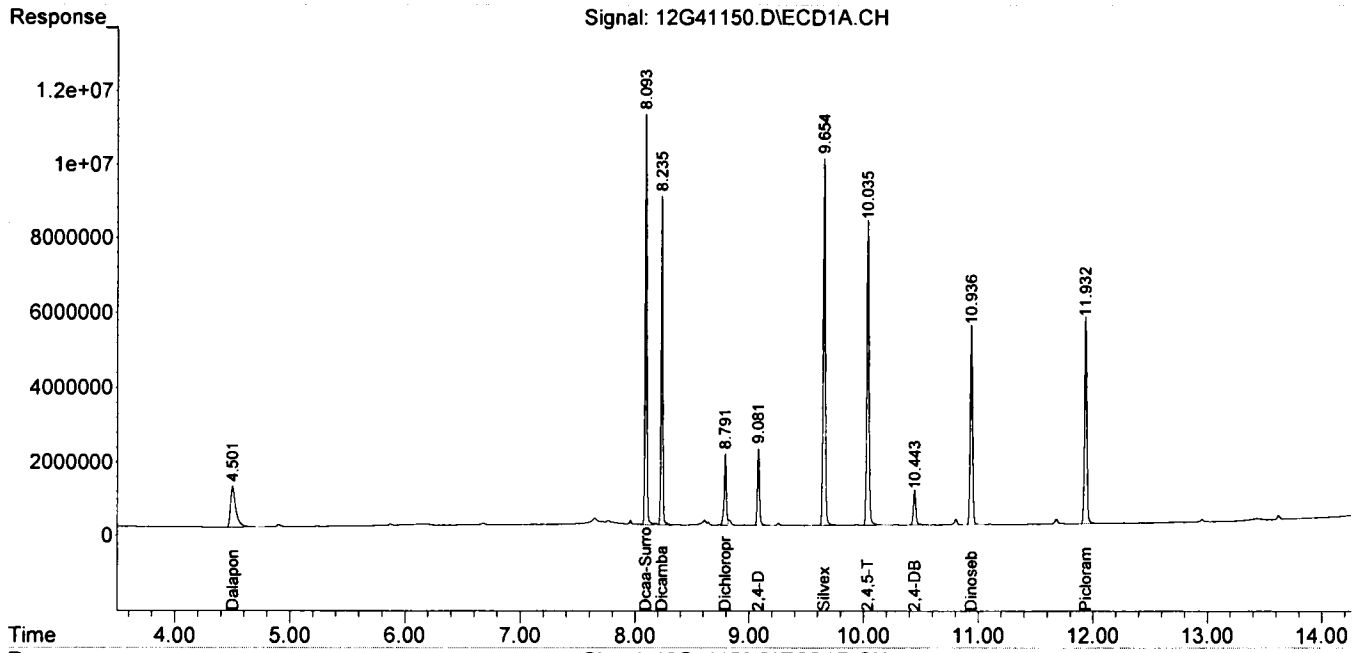
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

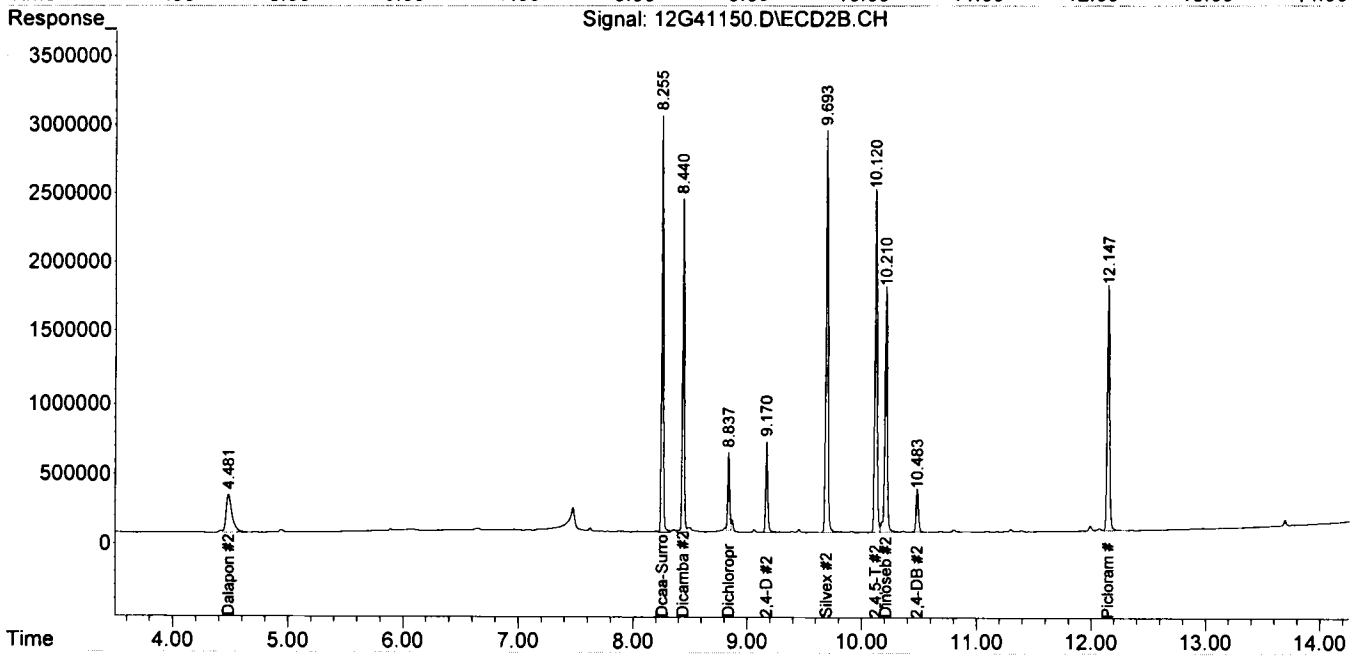
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\05-22-23\
Data File : 12G41150.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-May-23, 09:11:59
Operator : PR/KM/AH
Sample : CAL HERB@50PPB
Misc : A,HERB
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 11:19:43 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Mon May 22 11:12:08 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\05-22-23\
Data File : 12G41151.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-May-23, 09:31:50
Operator : PR/KM/AH
Sample : CAL HERB@100PPB
Misc : A,HERB
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 11:19:05 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Mon May 22 11:12:08 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
1)Dalapon	4.500	4.487	64563872	18175827	90.964	93.460
2)Dcaa-Surrogate	8.092	8.257	223.1E6	60507293	410.207	455.771
3)Dicamba	8.235	8.442	174.9E6	48921265	86.795	95.157
4)Dichloroprop	8.789	8.838	46801616	12616833	93.539	98.520m
5)2,4-D	9.080	9.172	51448277	16156898	92.846	99.263
6)Silvex	9.653	9.695	251.1E6	72229485	86.881	97.437
7)2,4,5-T	10.034	10.123	222.4E6	65296328	86.780	96.743
8)2,4-DB	10.443	10.485	28813760	9317654	92.036	99.465
9)Dinoseb	10.935	10.212	152.6E6	49396940	87.331	97.658
10)Picloram	11.932	12.149	216.8E6	66498895	78.398	92.369

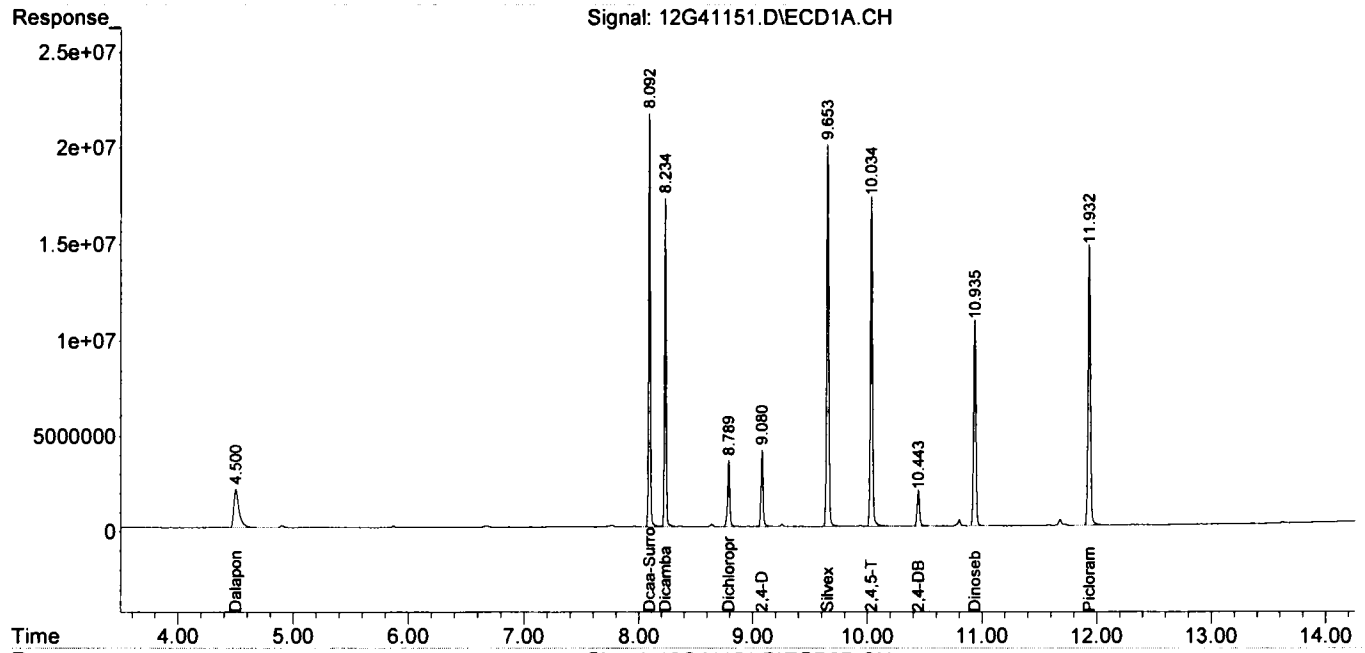
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

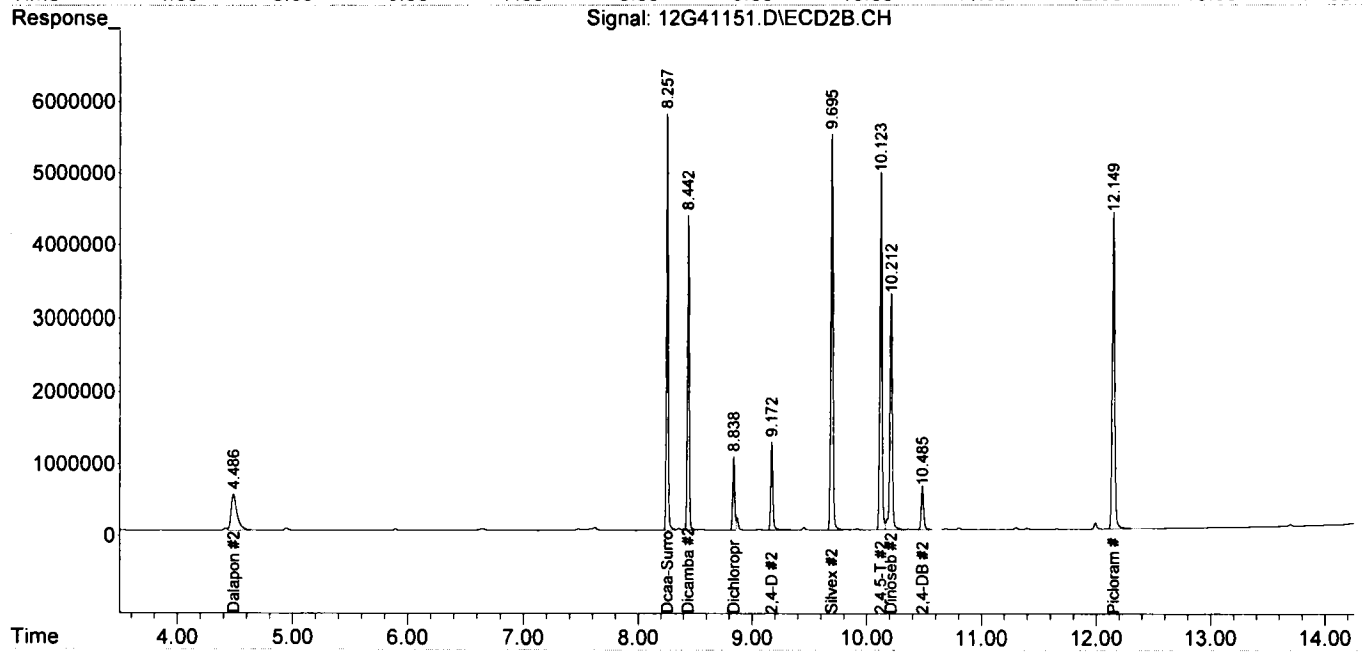
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\05-22-23\
Data File : 12G41151.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-May-23, 09:31:50
Operator : PR/KM/AH
Sample : CAL HERB@100PPB
Misc : A,HERB
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 11:19:05 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Mon May 22 11:12:08 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\05-22-23\
Data File : 12G41152.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-May-23, 09:51:43
Operator : PR/KM/AH
Sample : CAL HERB@200PPB
Misc : A,HERB
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 11:21:01 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Mon May 22 11:12:08 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
1)Dalapon	4.499	4.486	128.8E6	35814876	181.455	184.161
2)Dcaa-Surrogate	8.093	8.257	482.1E6	122.3E6	886.363	921.449
3)Dicamba	8.234	8.443	362.8E6	96322163	180.035	187.357
4)Dichloroprop	8.789	8.839	93134864	24268034	186.143	189.500
5)2,4-D	9.079	9.172	103.0E6	30903031	185.845	189.859
6)Silvex	9.653	9.696	531.5E6	141.2E6	183.912	190.434
7)2,4,5-T	10.033	10.123	466.8E6	129.0E6	182.136	191.166
8)2,4-DB	10.441	10.484	58973683	18061039	188.372	192.800
9)Dinoseb	10.935	10.212	324.4E6	96767995	185.630	191.311
10)Picloram	11.931	12.149	512.1E6	142.2E6	185.171m	197.480

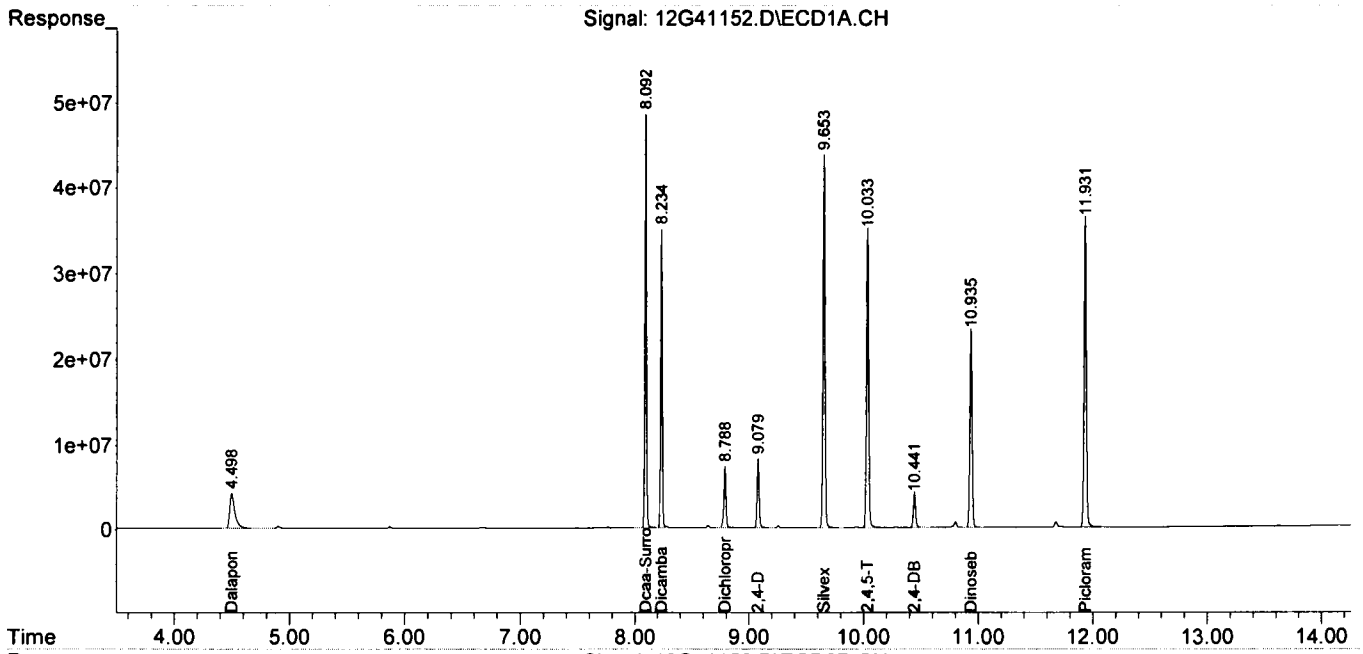
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

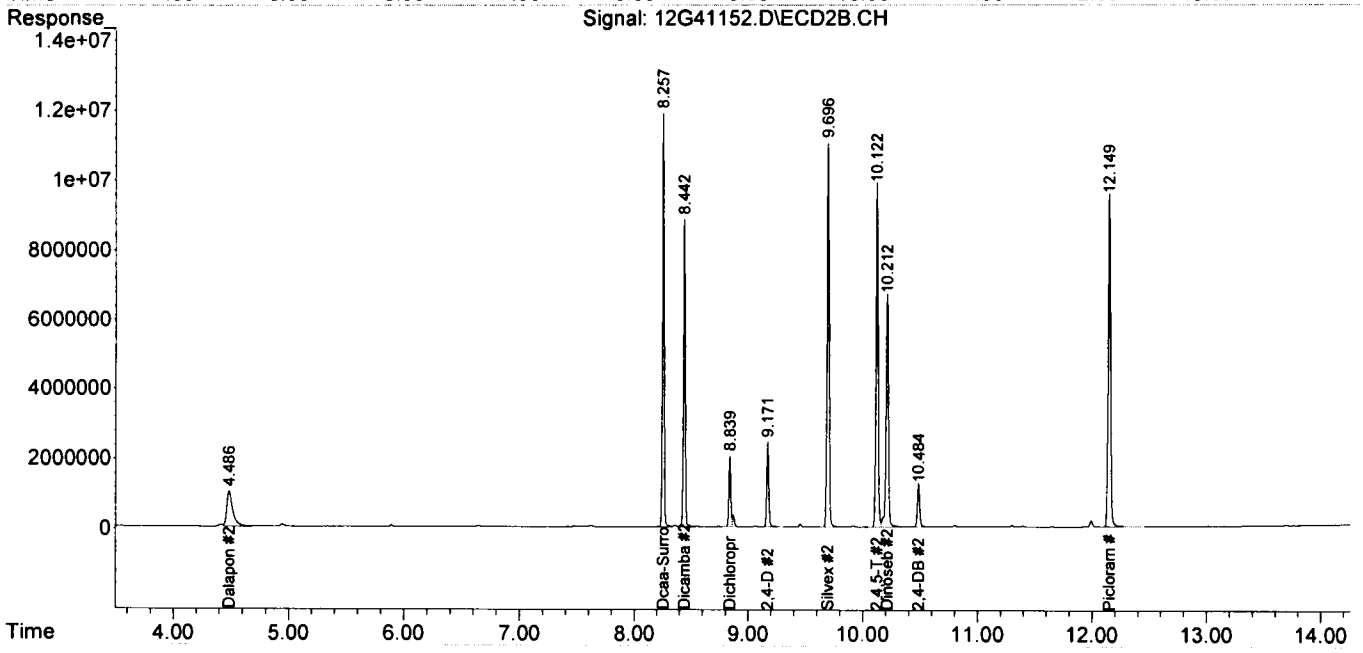
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\05-22-23\
Data File : 12G41152.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-May-23, 09:51:43
Operator : PR/KM/AH
Sample : CAL HERB@200PPB
Misc : A,HERB
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 11:21:01 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Mon May 22 11:12:08 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\05-22-23\
Data File : 12G41153.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-May-23, 10:11:35
Operator : PR/KM/AH
Sample : CAL HERB@400PPB
Misc : A,HERB
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 11:12:59 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Mon May 22 11:12:08 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
1)Dalapon	4.500	4.487	247.5E6	66795706	348.748	343.465
2)Dcaa-Surrogate	8.094	8.258	1065.7E6	242.3E6	1959.409	1825.070
3)Dicamba	8.236	8.443	756.4E6	183.9E6	375.333	357.740
4)Dichloroprop	8.789	8.839	181.4E6	45020271	362.602	351.547
5)2,4-D	9.079	9.171	203.1E6	57557395	366.467	353.615
6)Silvex	9.654	9.696	1111.3E6	269.2E6	384.579	363.140
7)2,4,5-T	10.034	10.123	983.0E6	247.3E6	383.542	366.433
8)2,4-DB	10.441	10.485	116.6E6	33801392	372.427	360.827
9)Dinoseb	10.936	10.213	669.3E6	182.1E6	382.980	359.977
10)Picloram	11.933	12.150	1157.4E6	285.2E6	418.483	396.204

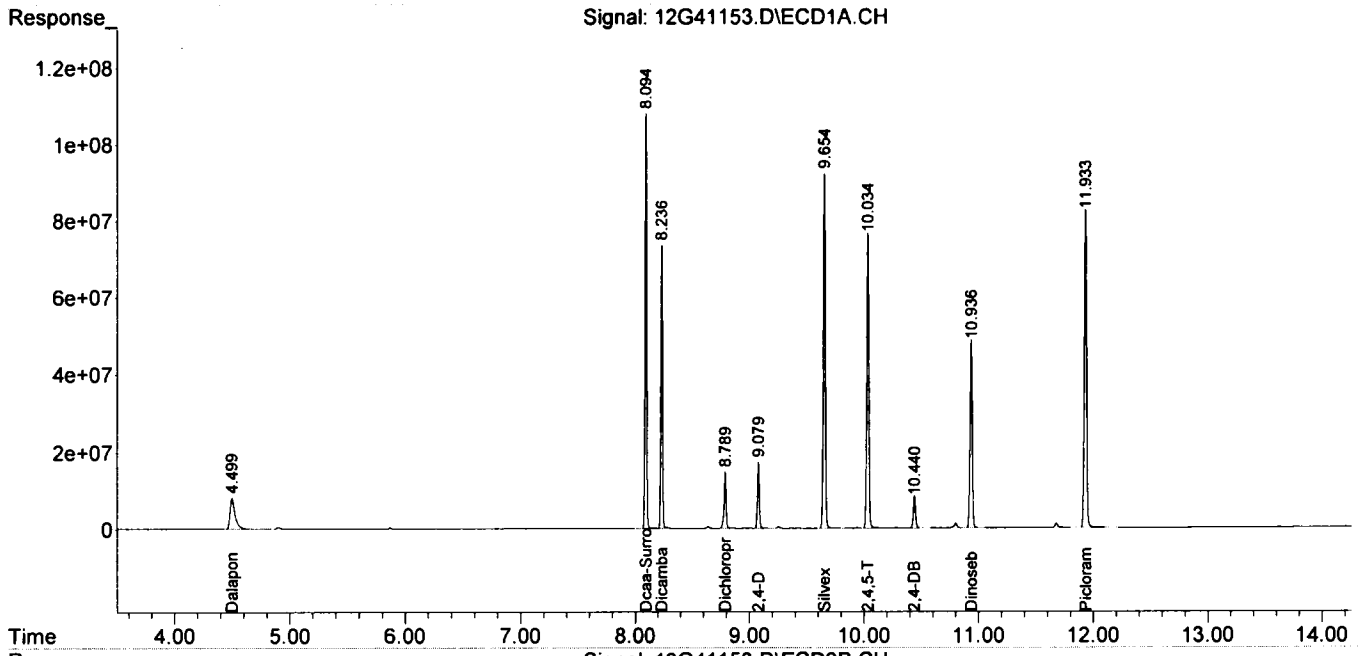
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

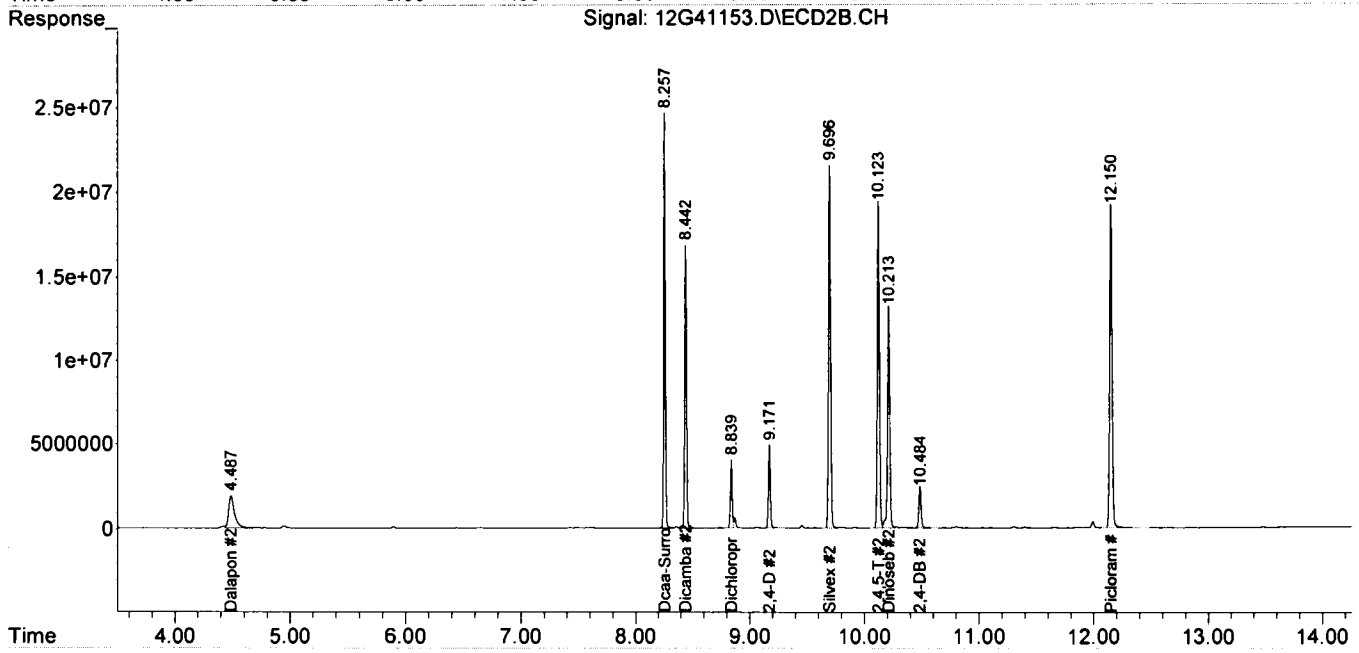
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\05-22-23\
Data File : 12G41153.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-May-23, 10:11:35
Operator : PR/KM/AH
Sample : CAL HERB@400PPB
Misc : A,HERB
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 11:12:59 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Mon May 22 11:12:08 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\05-22-23\
Data File : 12G41154.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-May-23, 10:31:27
Operator : PR/KM/AH
Sample : CAL HERB@500PPB
Misc : A,HERB
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 11:22:29 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Mon May 22 11:12:08 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
1)Dalapon	4.500	4.487	314.9E6	83693336	443.652	430.353
2)Dcaa-Surrogate	8.094	8.257	1392.5E6	312.1E6	2560.210	2350.860
3)Dicamba	8.236	8.443	1003.0E6	233.7E6	497.669	454.633
4)Dichloroprop	8.789	8.839	232.5E6	56605808	464.686	442.015
5)2,4-D	9.079	9.171	260.8E6	72259058	470.690	443.938
6)Silvex	9.655	9.696	1477.1E6	340.8E6	511.143	459.776
7)2,4,5-T	10.035	10.123	1326.4E6	313.4E6	517.529	464.358
8)2,4-DB	10.441	10.484	150.7E6	42162879	481.388	450.085
9)Dinoseb	10.936	10.212	881.3E6	228.6E6	504.287	452.007m
10)Picloram	11.934	12.150	1596.1E6	367.8E6	577.123	510.924

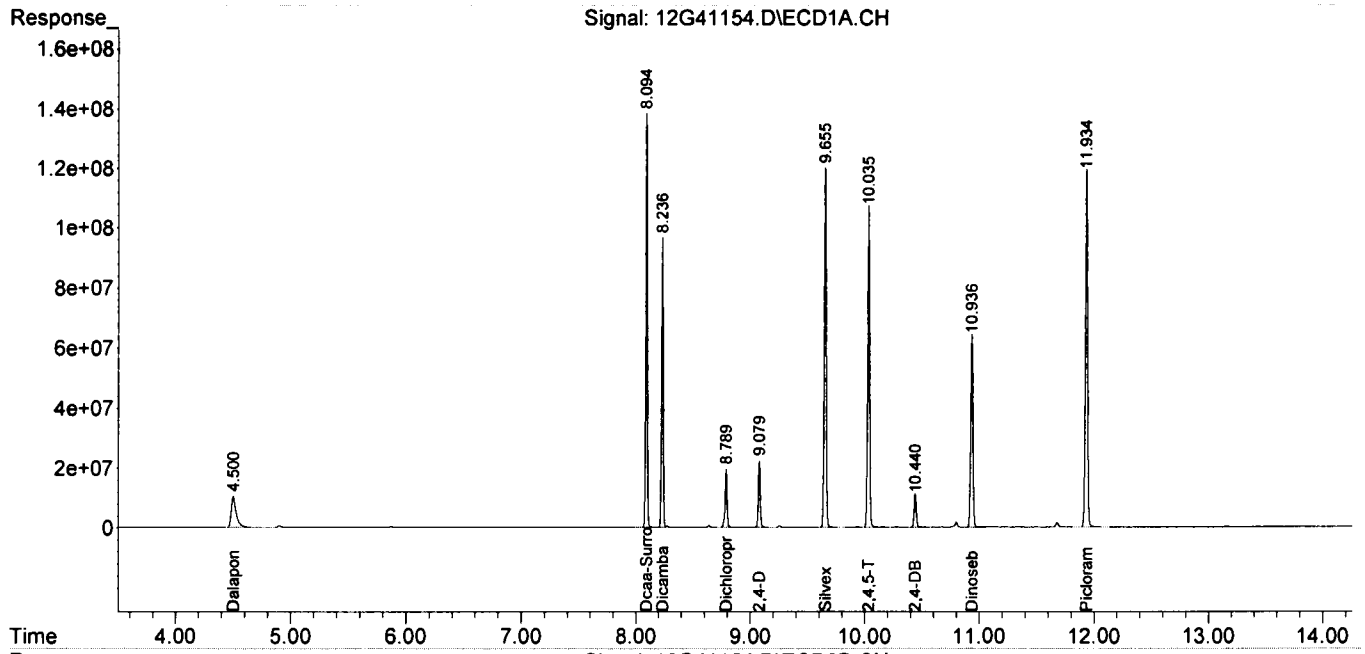
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

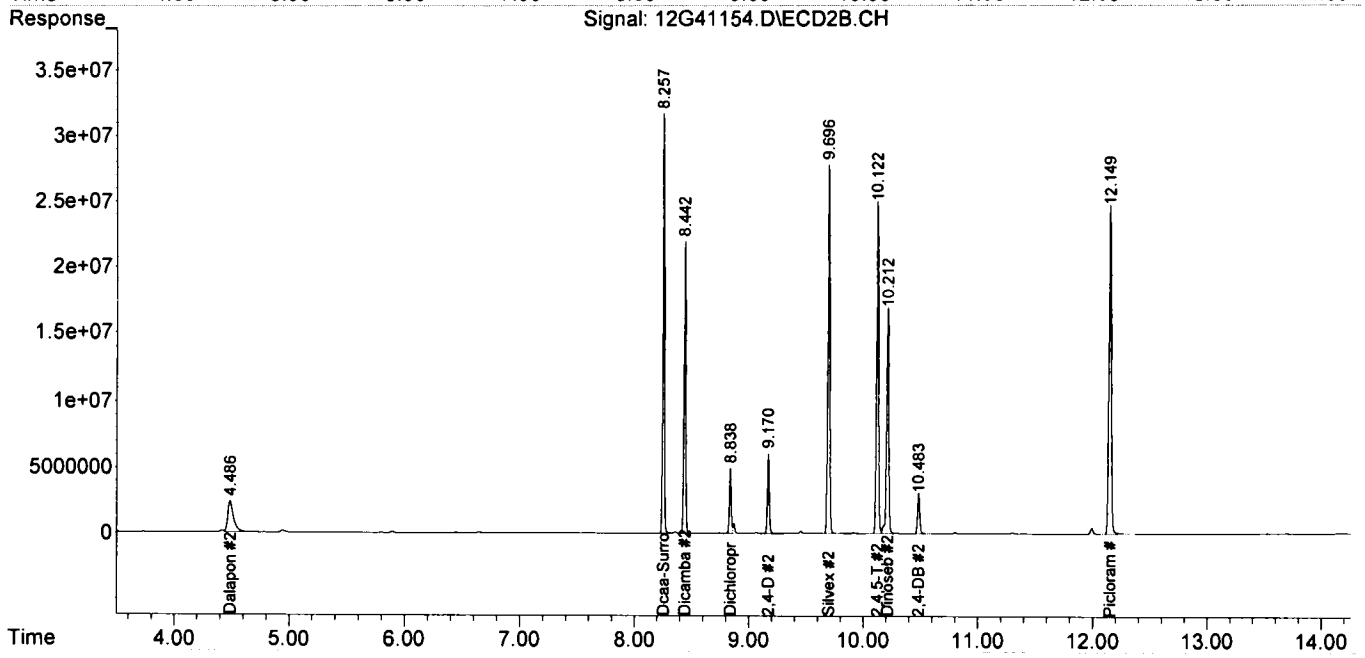
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\05-22-23\
Data File : 12G41154.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-May-23, 10:31:27
Operator : PR/KM/AH
Sample : CAL HERB@500PPB
Misc : A,HERB
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 11:22:29 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Mon May 22 11:12:08 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\05-22-23\
Data File : 12G41155.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-May-23, 10:51:18
Operator : PR/KM/AH
Sample : CAL HERB@600PPB
Misc : A,HERB
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 11:13:48 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Mon May 22 11:12:08 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
1)Dalapon	4.500	4.487	378.0E6	99397589	532.495	511.104
2)Dcaa-Surrogate	8.094	8.258	1702.3E6	379.2E6	3129.854	2856.647
3)Dicamba	8.236	8.443	1228.5E6	279.9E6	609.567	544.466
4)Dichloroprop	8.789	8.839	279.7E6	67322721	559.021	525.699
5)2,4-D	9.078	9.171	316.9E6	86053898	571.976	528.689
6)Silvex	9.655	9.696	1801.0E6	408.7E6	623.229	551.323
7)2,4,5-T	10.034	10.122	1613.7E6	376.8E6	629.630	558.210
8)2,4-DB	10.440	10.484	182.8E6	50306554	583.953	537.018
9)Dinoseb	10.935	10.213	1079.8E6	274.4E6	617.901	542.561
10)Picloram	11.932	12.149	1976.4E6	445.1E6	714.624	618.204

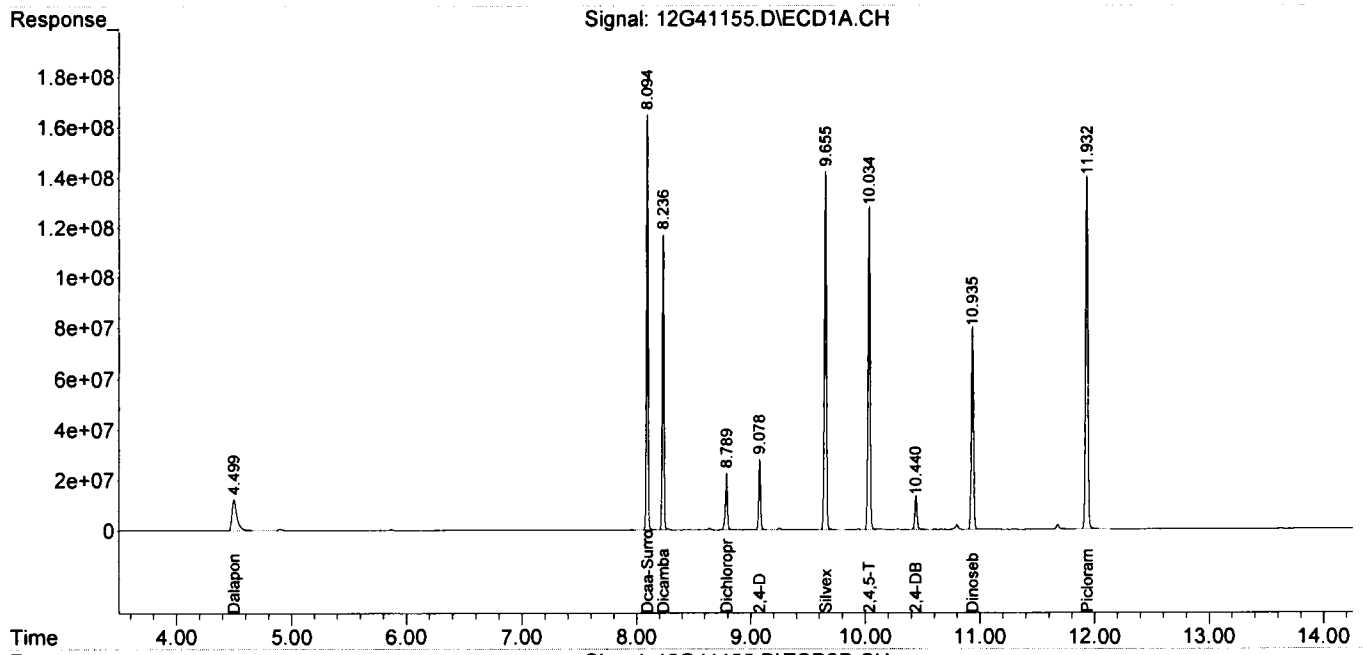
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

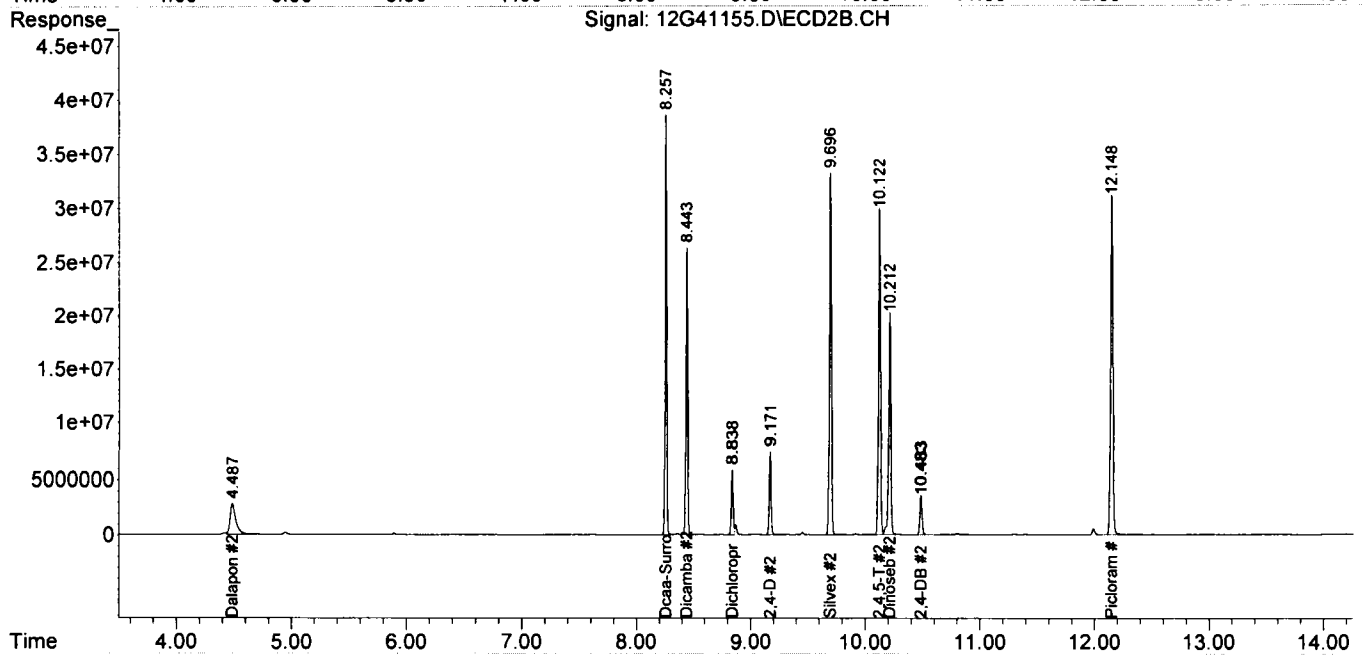
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\05-22-23\
Data File : 12G41155.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22-May-23, 10:51:18
Operator : PR/KM/AH
Sample : CAL HERB@600PPB
Misc : A,HERB
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 22 11:13:48 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Mon May 22 11:12:08 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





TxtDfile: 12G41156.D ICV FORM Date/Time: 05/22/23 11:16

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
Dalapon	1	0		185.48	182.1	102		70	130
Dalapon	2	0		187.4	182.1	103		70	130
Dcaa-Surrogate	2	0		933.29	935.84	100		70	130
Dcaa-Surrogate	1	0		894.93	935.84	96		70	130
Dicamba	2	0		190.82	188.04	101		70	130
Dicamba	1	0		184.34	188.04	98		70	130
Dichloroprop	2	0		191.58	188.72	102		70	130
Dichloroprop	1	0		186.61	188.72	99		70	130
2,4-D	1	0		182.67	188.04	97		70	130
2,4-D	2	0		186.91	188.04	99		70	130
Silvex	1	0		182.07	190.09	96		70	130
Silvex	2	0		188.56	190.09	99		70	130
2,4,5-T	2	0		185.95	189.57	98		70	130
2,4,5-T	1	0		176.83	189.57	93		70	130
2,4-DB	2	0		189.05	189.32	100		70	130
2,4-DB	1	0		181.03	189.32	96		70	130
Dinoseb	2	0		190.74	188.94	101		70	130
Dinoseb	1	0		185.34	188.94	98		70	130
Picloram	1	0		189.27	189	100		70	130
Picloram	2	0		195.68	189	104		70	130

Form7
Continuing Calibration

Method: EPA 8151A

Data File:				12G42099.D			12G42119.D										
Method:				8151			8151										
Calibration Name:				CAL HERB@200P			CAL HERB@200P										
Calibration Date/Time				06/30/23 07:25			06/30/23 14:04										
				Conc			Conc			Conc			Conc			Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
Dalapon	15	1	0	157.9	182	13.3	154.6	182	15.1									
Dcaa-Surrogate	15	1	0	895.9	936	4.3	805.9	936	13.9									
Dicamba	15	1	0	177.7	188	5.5	179.3	188	4.7									
Dichloroprop	15	1	0	173.4	189	8.1	171.9	189	8.9									
2,4-D	15	1	0	176.0	188	6.4	169.8	188	9.7									
Silvex	15	1	0	190.7	190	0.3	174.9	190	8.0									
2,4,5-T	15	1	0	180.1	190	5.0	176.1	190	7.1									
2,4-DB	15	1	0	197.8	189	4.5	179.1	189	5.4									
Dinoseb	15	1	0	186.0	189	1.6	170.5	189	9.8									
Picloram	15	1	0	134.9	189	28.6*	92.23	189	51.2*									
Average Difference	15	1	0			7.8			13.4									
Dalapon	15	2	0	171.7	182	5.7	175.4	182	3.7									
Dcaa-Surrogate	15	2	0	1006	936	7.5	925.9	936	1.1									
Dicamba	15	2	0	196.9	188	4.7	196.3	188	4.4									
Dichloroprop	15	2	0	192.0	189	1.8	228.6	189	21.2*									
2,4-D	15	2	0	182.3	188	3.0	197.8	188	5.2									
Silvex	15	2	0	199.5	190	4.9	197.7	190	4.0									
2,4,5-T	15	2	0	192.8	190	1.7	177.0	190	6.6									
2,4-DB	15	2	0	189.0	189	0.2	212.5	189	12.2									
Dinoseb	15	2	0	199.3	189	5.5	207.4	189	9.7									
Picloram	15	2	0	132.9	189	29.7*	99.98	189	47.1*									
Average Difference	15	2	0			6.5			11.5									

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8151A

Data File:			12G41150.D		12G42099.D						
Calibration Name:			CAL HERB@50PPB		CAL HERB@200PPB						
Calibration Date/Time			5/22/2023 9:11:59 AM		6/30/2023 7:25:07 AM						
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
Dalapon	1	0	4.50	(4.46 - 4.54)	4.47	(4.43 - 4.51)						
Dcaa-Surrogate	1	0										
Dicamba	1	0	8.24	(8.20 - 8.28)	8.20	(8.16 - 8.24)						
Dichloroprop	1	0	8.79	(8.75 - 8.83)	8.74	(8.70 - 8.78)						
2,4-D	1	0	9.08	(9.04 - 9.12)	9.03	(8.99 - 9.07)						
Silvex	1	0	9.65	(9.61 - 9.69)	9.60	(9.56 - 9.64)						
2,4,5-T	1	0	10.03	(9.99 - 10.07)	9.98	(9.94 - 10.02)						
2,4-DB	1	0	10.44	(10.40 - 10.48)	10.38	(10.34 - 10.42)						
Dinoseb	1	0	10.94	(10.90 - 10.98)	10.87	(10.83 - 10.91)						
Picloram	1	0	11.93	(11.89 - 11.97)	11.87	(11.83 - 11.91)						
Dalapon	2	0	4.49	(4.45 - 4.53)	4.48	(4.44 - 4.52)						
Dcaa-Surrogate	2	0										
Dicamba	2	0	8.44	(8.40 - 8.48)	8.44	(8.40 - 8.48)						
Dichloroprop	2	0	8.84	(8.80 - 8.88)	8.83	(8.79 - 8.87)						
2,4-D	2	0	9.17	(9.13 - 9.21)	9.17	(9.13 - 9.21)						
Silvex	2	0	9.70	(9.66 - 9.74)	9.69	(9.65 - 9.73)						
2,4,5-T	2	0	10.12	(10.08 - 10.16)	10.12	(10.08 - 10.16)						
2,4-DB	2	0	10.48	(10.44 - 10.52)	10.48	(10.44 - 10.52)						
Dinoseb	2	0	10.21	(10.17 - 10.25)	10.21	(10.17 - 10.25)						
Picloram	2	0	12.15	(12.11 - 12.19)	12.14	(12.10 - 12.18)						

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-30-23\
Data File : 12G42099.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-Jun-23, 07:25:07 (#1); 30-Jun-23, 07:25:08 (#2)
Operator : PR/KM/AH
Sample : CAL HERB@200PPB
Misc : S,HERB
ALS Vial : 100 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 07:41:58 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
1)Dalapon	4.474	4.478	112.1E6	33383359	157.878	171.658
2)Dcaa-Surrogate	8.058	8.252	487.3E6	133.6E6	895.927	1006.144
3)Dicamba	8.196	8.438	358.1E6	101.2E6	177.689	196.901
4)Dichloroprop	8.742	8.833	86758573	24372715	173.377	192.034
5)2,4-D	9.034	9.167	97529693	29677913	176.007	182.332
6)Silvex	9.597	9.690	551.0E6	147.9E6	190.682	199.452
7)2,4,5-T	9.979	10.117	461.5E6	130.1E6	180.056	192.794m
8)2,4-DB	10.379	10.478	61925781	17603322	197.801	189.034m
9)Dinoseb	10.869	10.206	325.1E6	100.8E6	186.011	199.261
10)Picloram	11.873	12.144	342.3E6	95672945	134.877	132.893

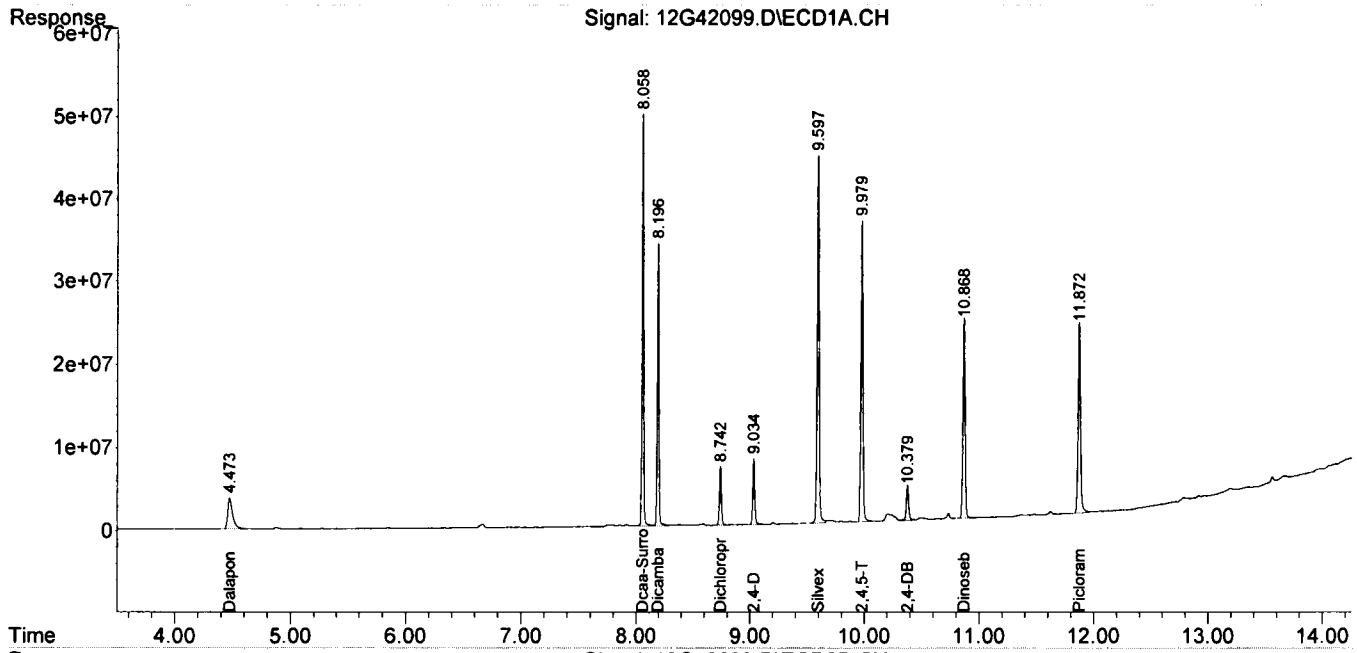
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

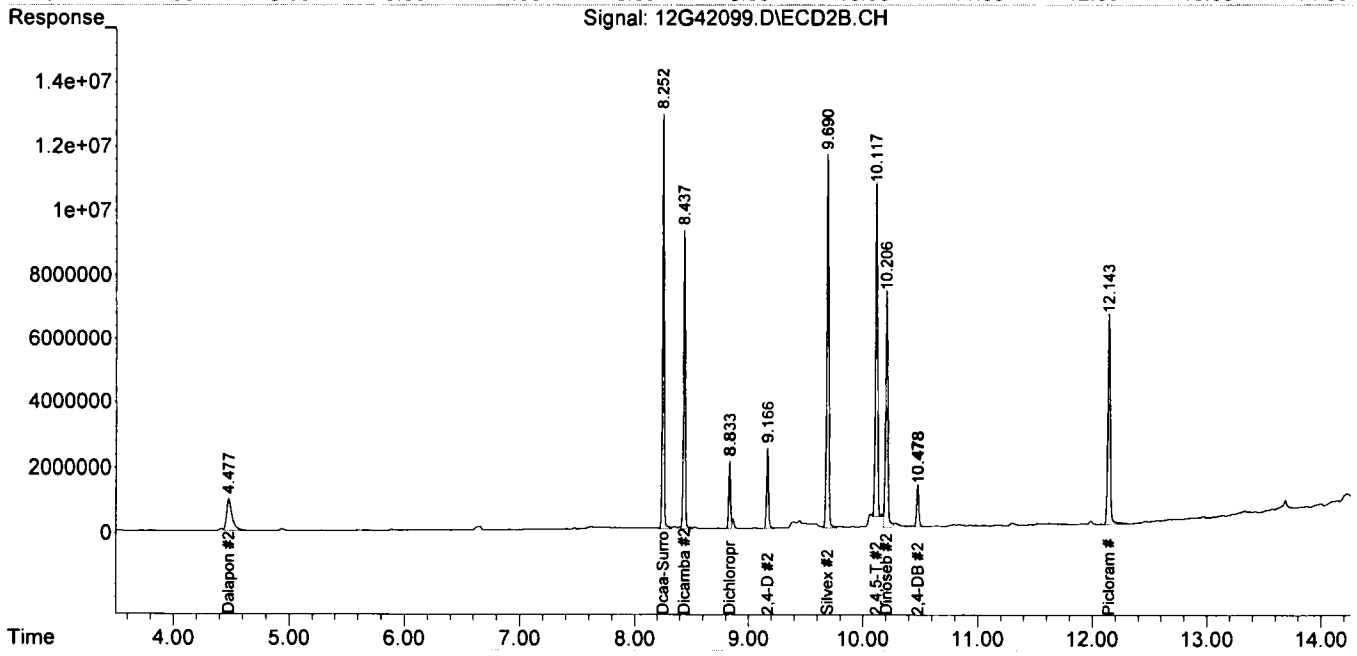
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-30-23\
Data File : 12G42099.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-Jun-23, 07:25:07 (#1); 30-Jun-23, 07:25:08 (#2)
Operator : PR/KM/AH
Sample : CAL HERB@200PPB
Misc : S,HERB
ALS Vial : 100 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 07:41:58 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-30-23\
Data File : 12G42119.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-Jun-23, 14:04:12
Operator : PR/KM/AH
Sample : CAL HERB@200PPB
Misc : S,HERB
ALS Vial : 100 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 14:20:00 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
1)Dalapon	4.474	4.485	109.7E6	34103076	154.551	175.359m
2)Dcaa-Surrogate	8.058	8.256	438.3E6	122.9E6	805.944	925.872
3)Dicamba	8.195	8.441	361.3E6	100.9E6	179.293	196.286
4)Dichloroprop	8.745	8.840	86006873	29019292	171.875	228.645 #
5)2,4-D	9.042	9.178	94104044	32200973	169.824	197.833
6)Silvex	9.599	9.696	505.3E6	146.5E6	174.853	197.695
7)2,4,5-T	9.987	10.130	451.3E6	119.5E6	176.092	177.014
8)2,4-DB	10.391	10.495	56085043	19786695	179.145	212.480
9)Dinoseb	10.869	10.214	297.9E6	104.8E6	170.455m	207.350
10)Picloram	11.889	12.162	225.2E6	71974861	92.228	99.976

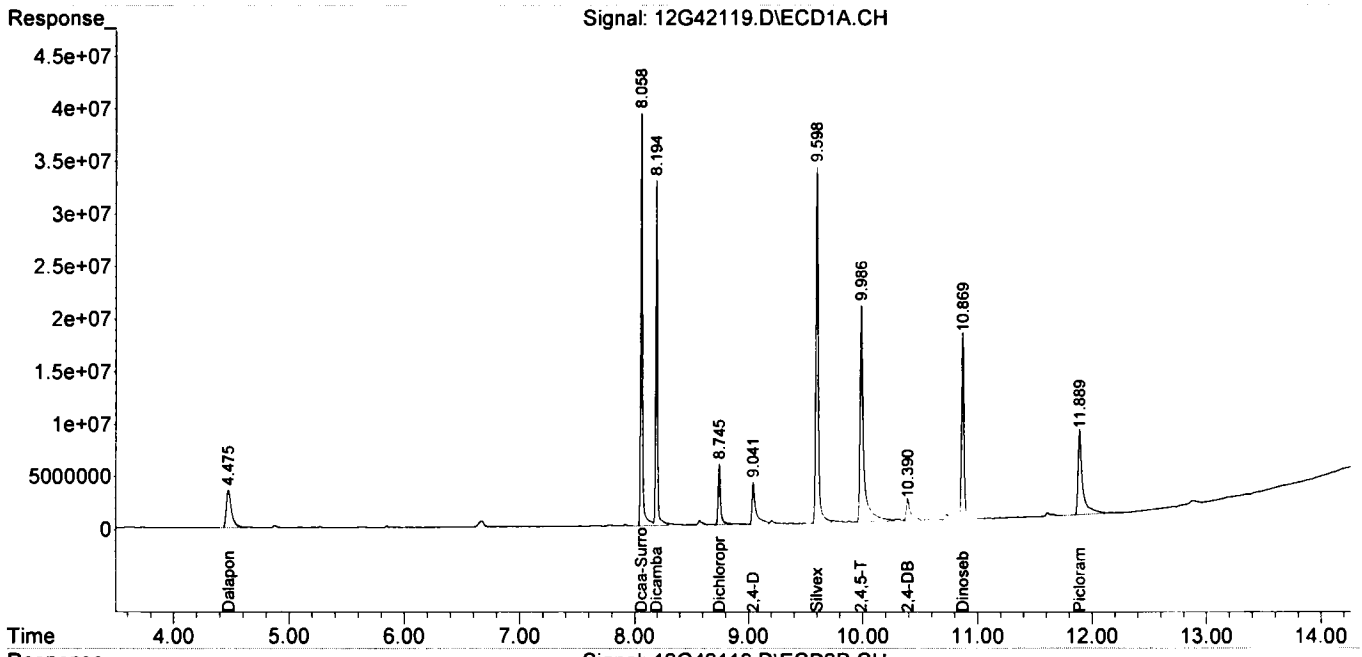
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

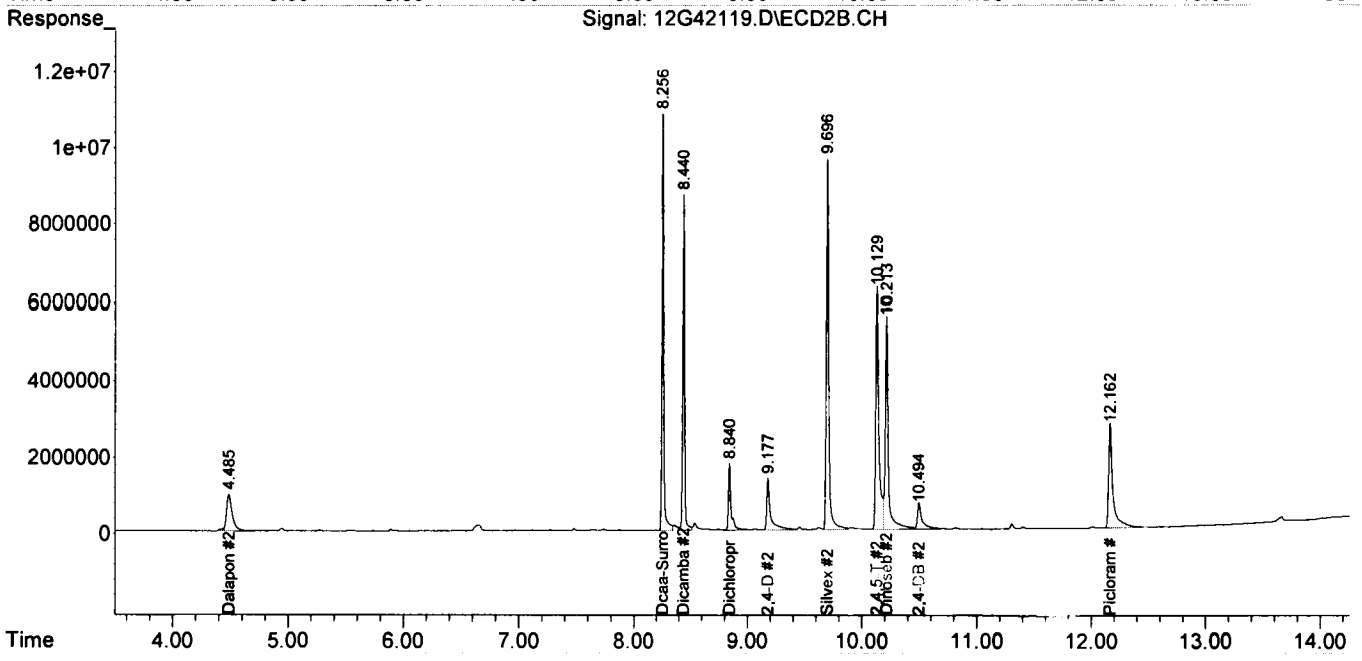
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-30-23\
Data File : 12G42119.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-Jun-23, 14:04:12
Operator : PR/KM/AH
Sample : CAL HERB@200PPB
Misc : S,HERB
ALS Vial : 100 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 14:20:00 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





GC Herbicide Data
Raw QC Data

Form1

ORGANICS HERBICIDE REPORT

Sample Number: WMB109463
Client Id:
Data File: 12G42110.D
Analysis Date: 06/30/23 11:04
Date Rec/Extracted: NA-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8151A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 10ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
93-76-5	2,4,5-T	0.47	U	1918-00-9	Dicamba	0.47	U
94-75-7	2,4-D	0.47	U	93-72-1	Silvex	0.48	U

Worksheet #: 700850

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-30-23\
Data File : 12G42110.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-Jun-23, 11:04:28
Operator : PR/KM/AH
Sample : WMB109463
Misc : A,HERB
ALS Vial : 31 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 11:29:02 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
2)Dcaa-Surrogate	8.057	8.256	449.3E6	127.6E6	826.068m	961.366m

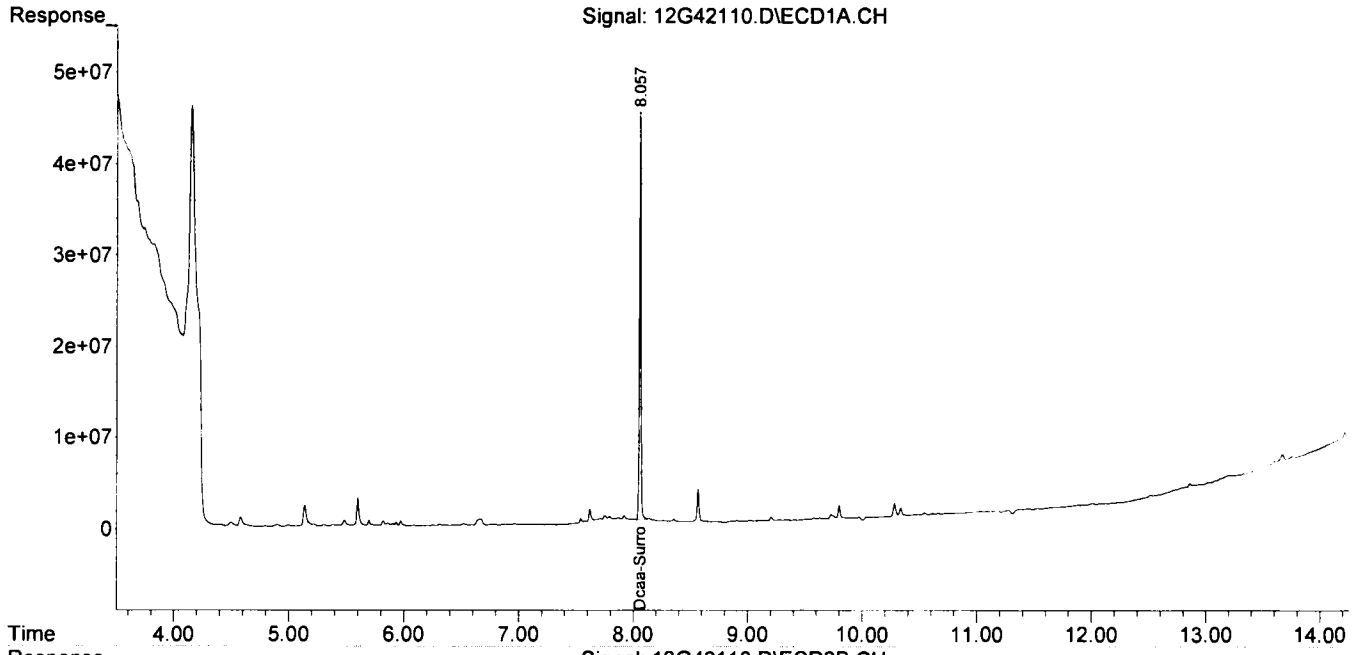
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

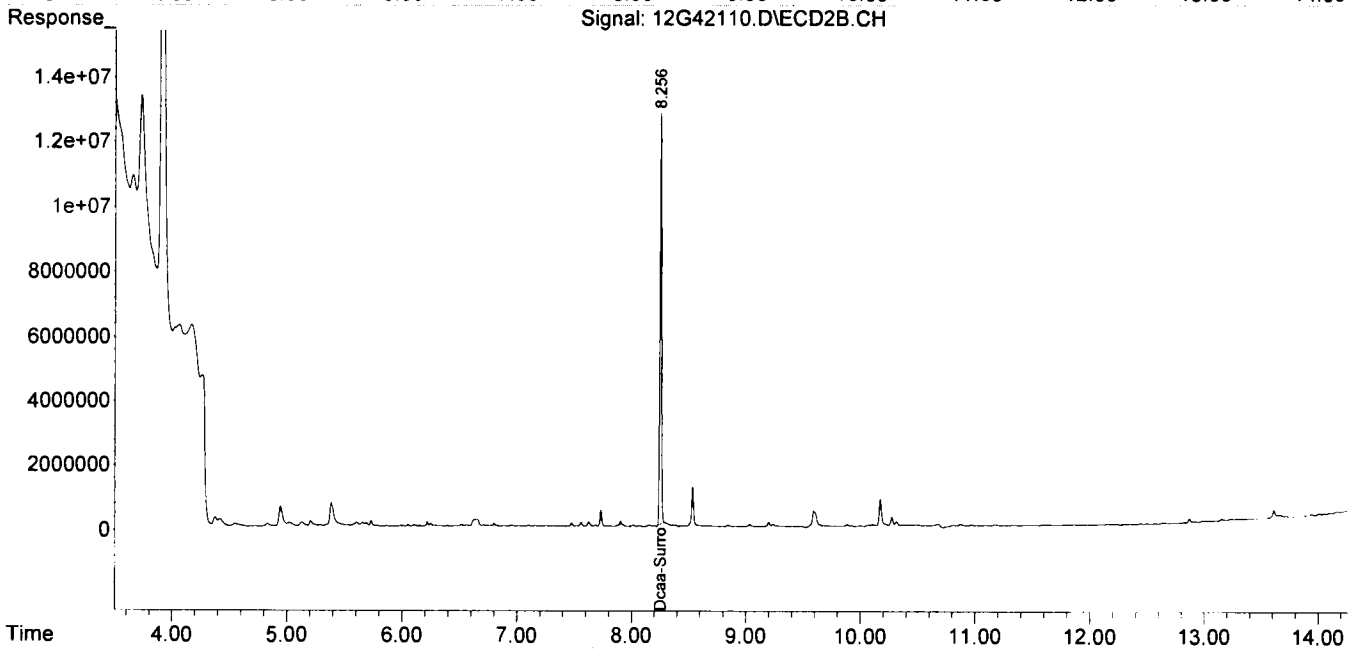
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-30-23\
Data File : 12G42110.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-Jun-23, 11:04:28
Operator : PR/KM/AH
Sample : WMB109463
Misc : A,HERB
ALS Vial : 31 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 11:29:02 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Form3
Recovery Data Laboratory Limits
QC Batch: WMB109463

	Data File	Sample ID:	Analysis Date
Spike or Dup:	12G42111.D	WMB109463(MS)	6/30/2023 11:24:18 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8151 Matrix: Aqueous Units: ug/L QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Dicamba	1	315.08	0	376.08	84	25	130
2,4-D	1	323.91	0	376.08	86	10	130
Silvex	1	330.68	0	380.17	87	25	130
2,4,5-T	1	317.91	0	379.14	84	25	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-30-23\
Data File : 12G42111.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-Jun-23, 11:24:18
Operator : PR/KM/AH
Sample : WMB109463(MS)
Misc : A,HERB
ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 11:45:05 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2	
Target Compounds							
1)Dalapon	4.483	4.493	186.0E6	52131211	262.032	268.060	
2)Dcaa-Surrogate	8.057	8.256	448.6E6	134.8E6	824.805m	1015.531	
3)Dicamba	8.196	8.441	635.0E6	171.1E6	315.081m	332.819	
4)Dichloroprop	8.742	8.837	148.4E6	49404593	296.464	389.262	#
5)2,4-D	9.033	9.172	179.5E6	54731096	323.908	336.251	
6)Silvex	9.597	9.695	955.6E6	256.7E6	330.680	346.221	
7)2,4,5-T	9.980	10.122	814.8E6	214.4E6	317.913	317.647	
8)2,4-DB	10.379	10.484	128.1E6	41903570	409.139	449.983	
9)Dinoseb	10.868	10.211	328.0E6	102.2E6	187.718	202.033	
10)Picloram	11.878	12.152	775.2E6	218.9E6	272.026	304.106	

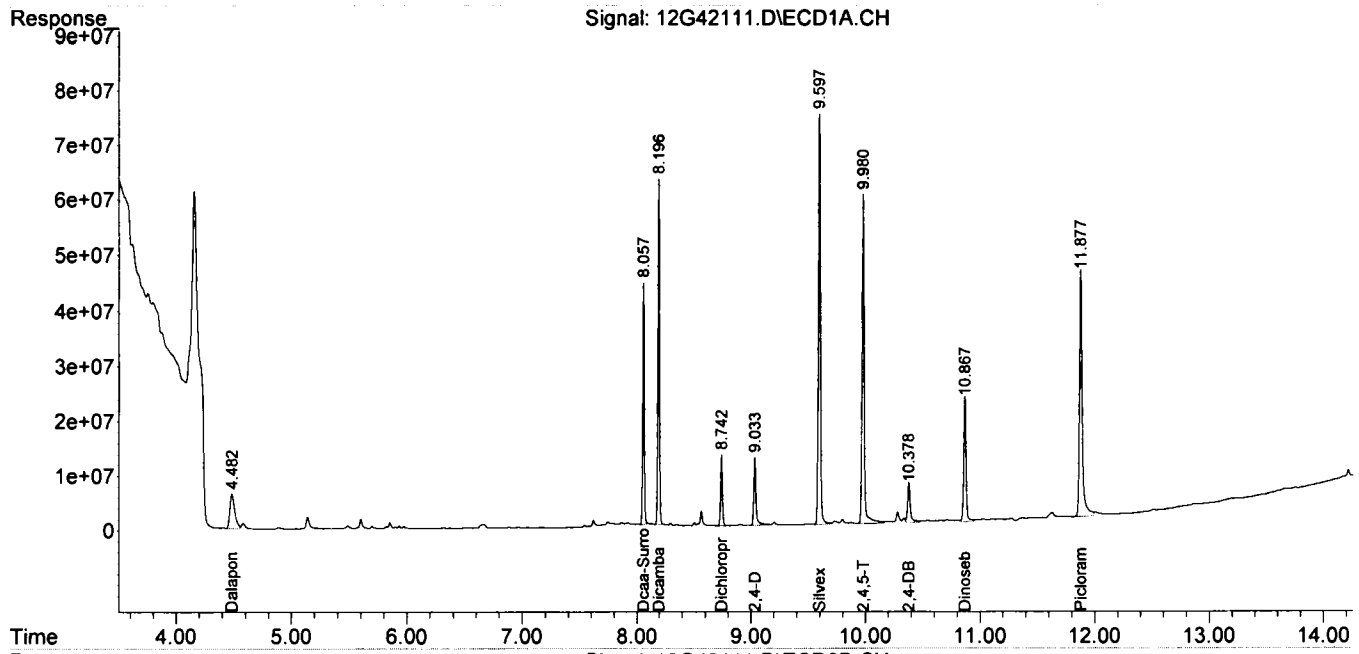
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

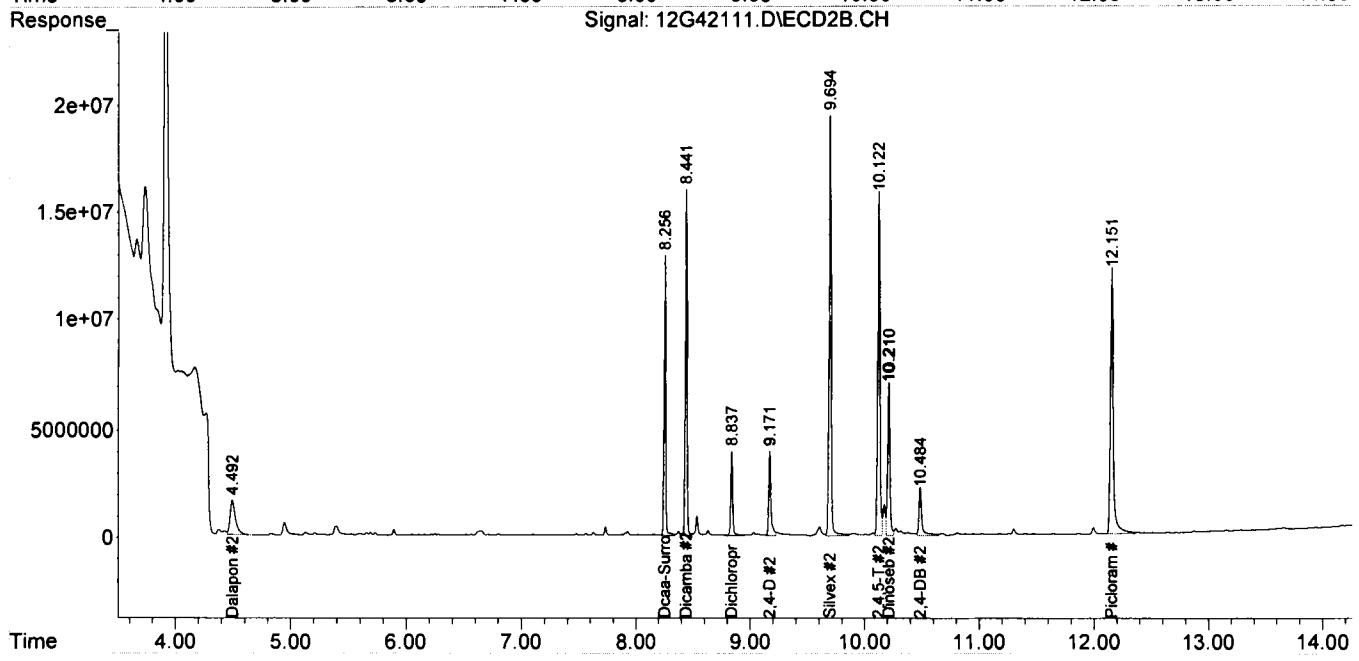
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-30-23\
Data File : 12G42111.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-Jun-23, 11:24:18
Operator : PR/KM/AH
Sample : WMB109463(MS)
Misc : A,HERB
ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 11:45:05 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Form3
Recovery Data Laboratory Limits
QC Batch: WMB109463

	Data File	Sample ID:	Analysis Date
Spike or Dup:	12G42112.D	AD38798-004(MS:AD38798-00	6/30/2023 11:44:08 AM
Non Spike(If applicable):	12G42114.D	AD38798-002	6/30/2023 12:23:55 PM
Inst Blank(If applicable):			

Method: 8151 Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Dicamba	1	302.72	0	376.08	80	25	130
2,4-D	1	302.49	0	376.08	80	10	130
Silvex	1	320.65	0	380.17	84	25	130
2,4,5-T	1	288.32	0	379.14	76	25	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	12G42113.D	AD38798-005(MSD:AD38798-0	6/30/2023 12:03:58 PM
Non Spike(If applicable):	12G42114.D	AD38798-002	6/30/2023 12:23:55 PM
Inst Blank(If applicable):			

Method: 8151 Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Dicamba	1	282.91	0	376.08	75	25	130
2,4-D	1	281.91	0	376.08	75	10	130
Silvex	1	297.87	0	380.17	78	25	130
2,4,5-T	1	282.46	0	379.14	75	25	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form

Form3
RPD Data Laboratory Limits
QC Batch: WMB109463

	Data File	Sample ID:	Analysis Date
Spike or Dup:	12G42113.D	AD38798-005(MSD:AD38798-0	6/30/2023 12:03:58 PM
Duplicate(If applicable):	12G42112.D	AD38798-004(MS:AD38798-00	6/30/2023 11:44:08 AM
Inst Blank(If applicable):			

Method: 8151 Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Dicamba	1	282.91	302.72	6.8	40
2,4-D	1	281.91	302.49	7	40
Silvex	1	297.87	320.65	7.4	40
2,4,5-T	1	282.46	288.32	2.1	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-30-23\
Data File : 12G42112.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-Jun-23, 11:44:08
Operator : PR/KM/AH
Sample : AD38798-004(MS:AD38798-002) (Sig #1); AD38798-004(MS) (Sig #2)
Misc : A,HERB
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 12:21:15 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
1)Dalapon	4.481	4.490	177.9E6	50877765	250.703	261.614
2)Dcaa-Surrogate	8.056	8.255	441.0E6	127.1E6	810.909m	957.332m
3)Dicamba	8.195	8.441	610.1E6	165.1E6	302.719m	321.163
4)Dichloroprop	8.741	8.837	144.0E6	47718106	287.677	375.974 #
5)2,4-D	9.033	9.170	167.6E6	52991600	302.493	325.565
6)Silvex	9.596	9.694	926.6E6	248.3E6	320.655	334.896
7)2,4,5-T	9.978	10.121	738.9E6	209.5E6	288.317	310.454
8)2,4-DB	10.379	10.483	126.3E6	41431128	403.501	444.909
9)Dinoseb	10.867	10.210	349.2E6	108.5E6	199.801	214.602
10)Picloram	11.875	12.150	791.8E6	216.3E6	276.790	300.388

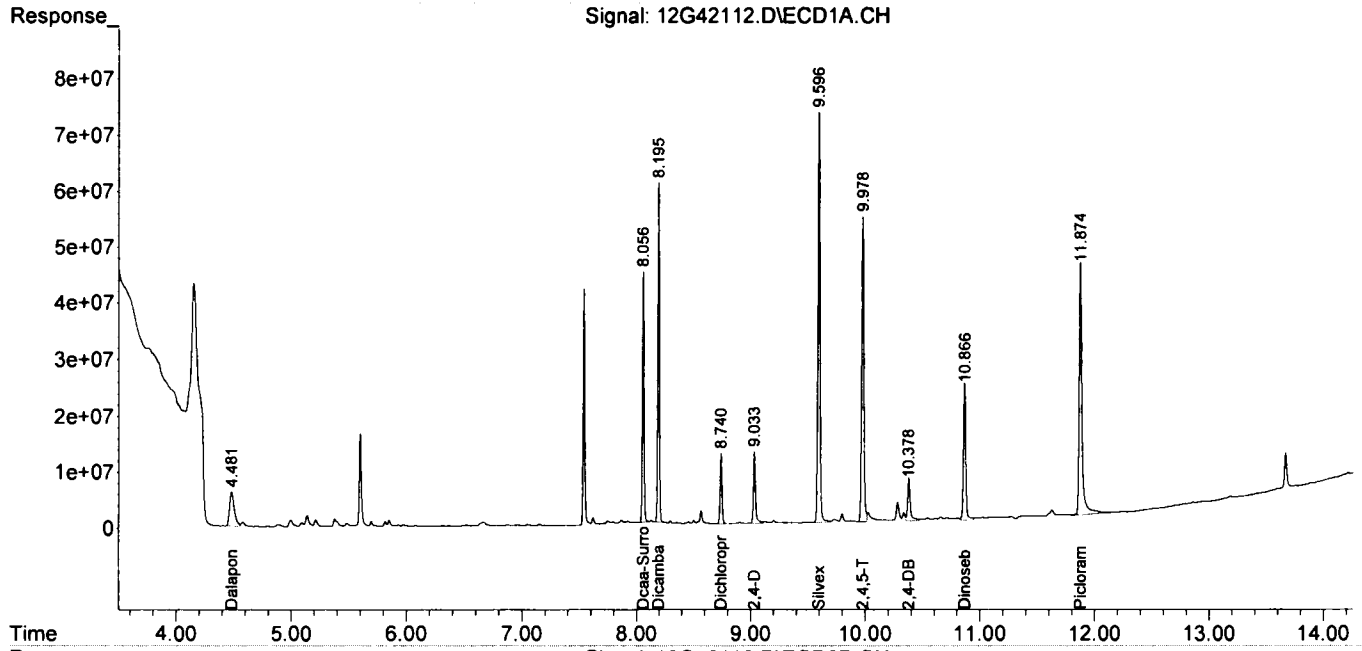
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

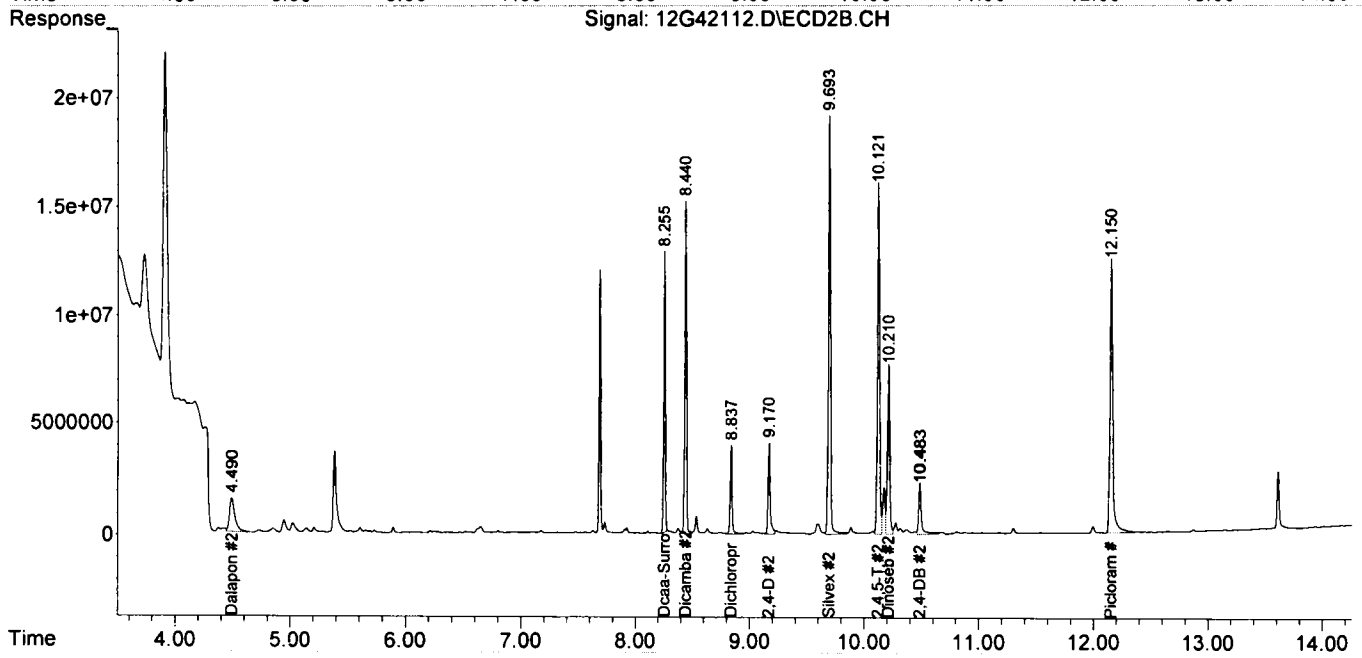
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-30-23\
Data File : 12G42112.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-Jun-23, 11:44:08
Operator : PR/KM/AH
Sample : AD38798-004(MS:AD38798-002) (Sig #1); AD38798-004(MS) (Sig #2)
Misc : A,HERB
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 12:21:15 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-30-23\
Data File : 12G42113.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-Jun-23, 12:03:58
Operator : PR/KM/AH
Sample : AD38798-005(MSD:AD38798-002) (Sig #1); AD38798-004(MSD) (Sig #2)
Misc : A,HERB
ALS Vial : 34 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 12:21:59 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2	
Target Compounds							
1)Dalapon	4.482	4.492	168.6E6	48272877	237.596	248.220	
2)Dcaa-Surrogate	8.056	8.255	406.2E6	121.6E6	746.825m	916.195	
3)Dicamba	8.195	8.440	570.2E6	155.3E6	282.906m	302.078	
4)Dichloroprop	8.741	8.836	135.6E6	45362004	270.910	357.410	#
5)2,4-D	9.033	9.170	156.2E6	49840637	281.912	306.206	
6)Silvex	9.596	9.693	860.8E6	230.1E6	297.867	310.407	
7)2,4,5-T	9.978	10.121	723.9E6	193.5E6	282.462	286.719	
8)2,4-DB	10.378	10.483	118.4E6	37227941	378.156	399.773	
9)Dinoseb	10.867	10.210	308.8E6	96665911	176.682	191.176	
10)Picloram	11.876	12.150	714.8E6	201.6E6	254.408	280.032	

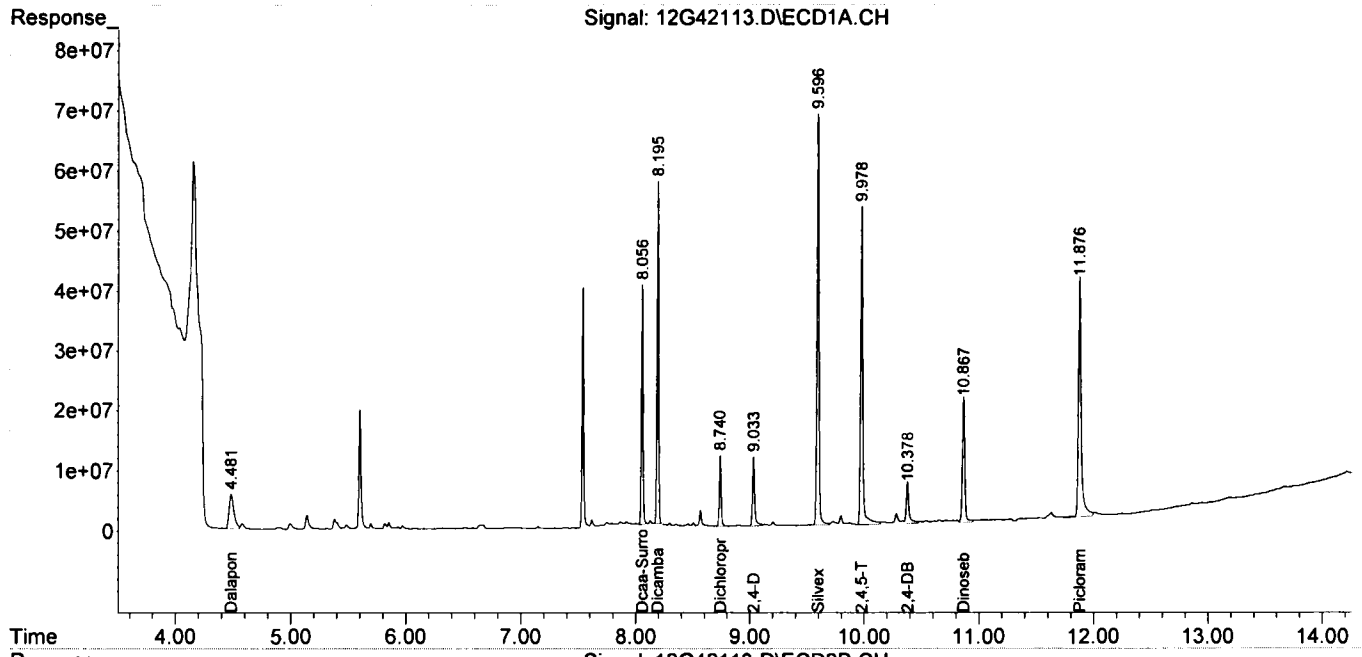
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

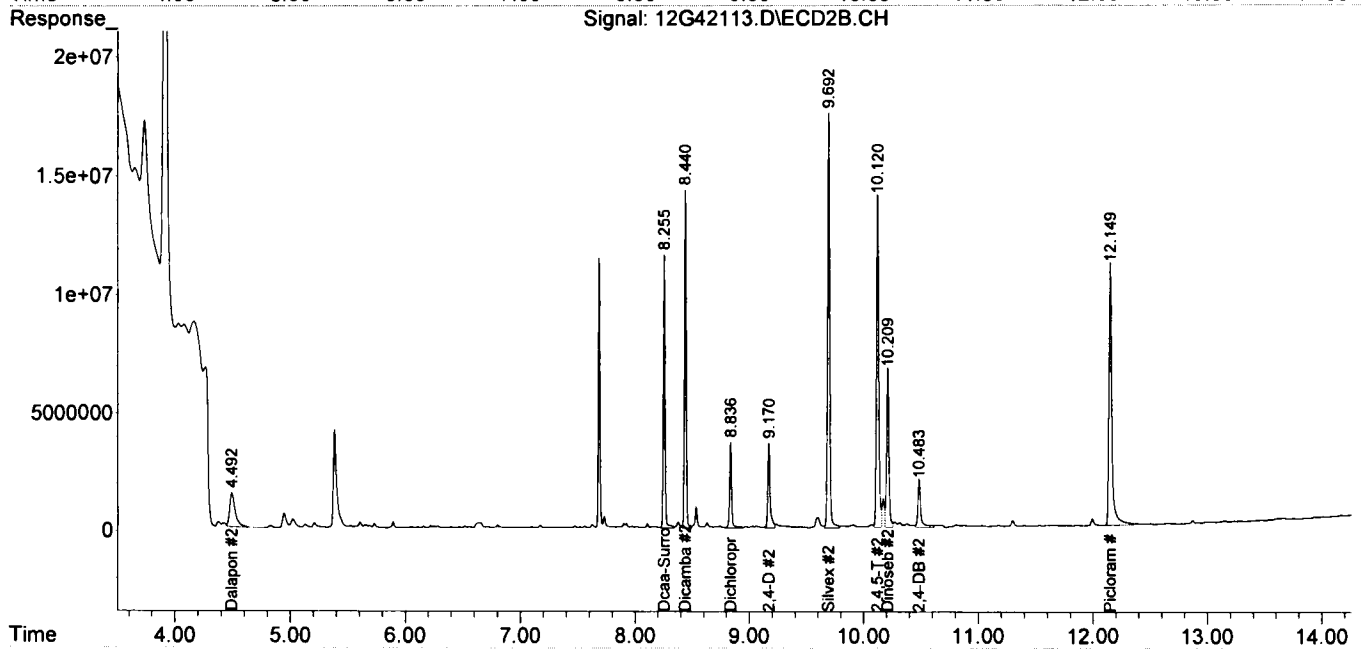
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-30-23\
Data File : 12G42113.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-Jun-23, 12:03:58
Operator : PR/KM/AH
Sample : AD38798-005(MSD:AD38798-002) (Sig #1); AD38798-004(MSD) (Sig #2)
Misc : A,HERB
ALS Vial : 34 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 12:21:59 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-30-23\
Data File : 12G42114.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-Jun-23, 12:23:55
Operator : PR/KM/AH
Sample : AD38798-002
Misc : A,HERB
ALS Vial : 35 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 13:10:39 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
Target Compounds						
2)Dcaa-Surrogate	8.056	8.255	487.6E6	140.1E6	896.483m	1055.313m

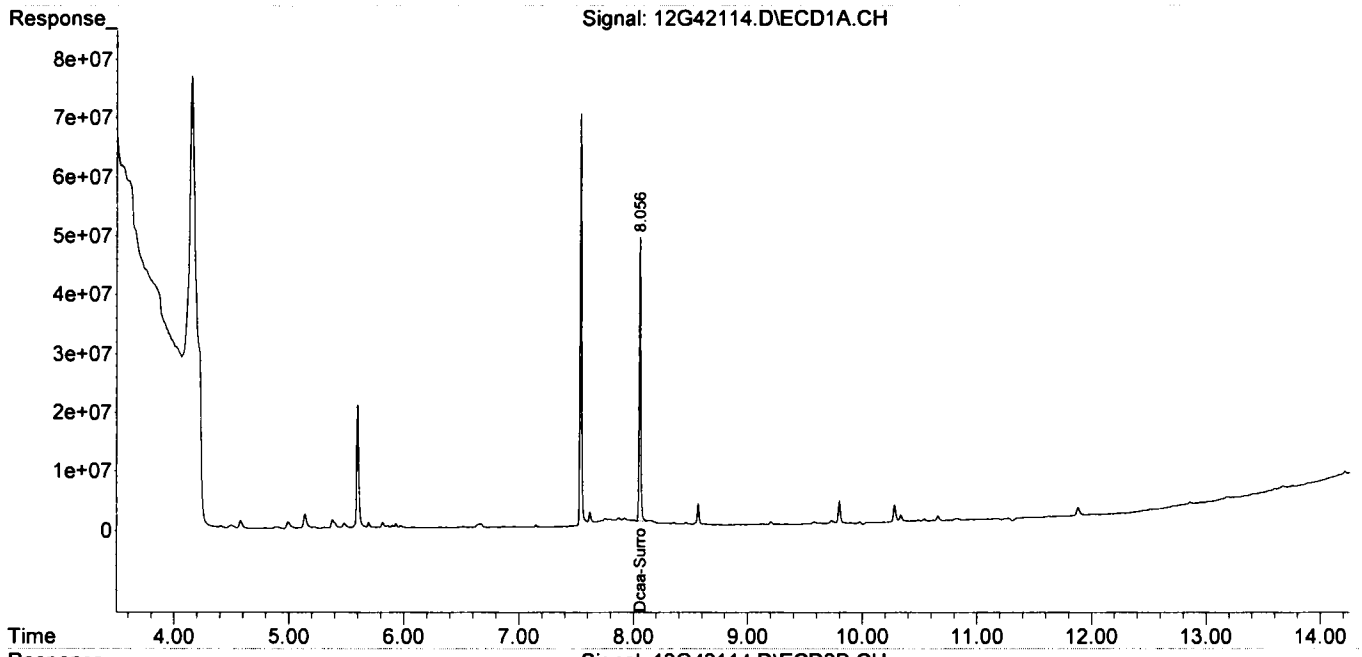
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

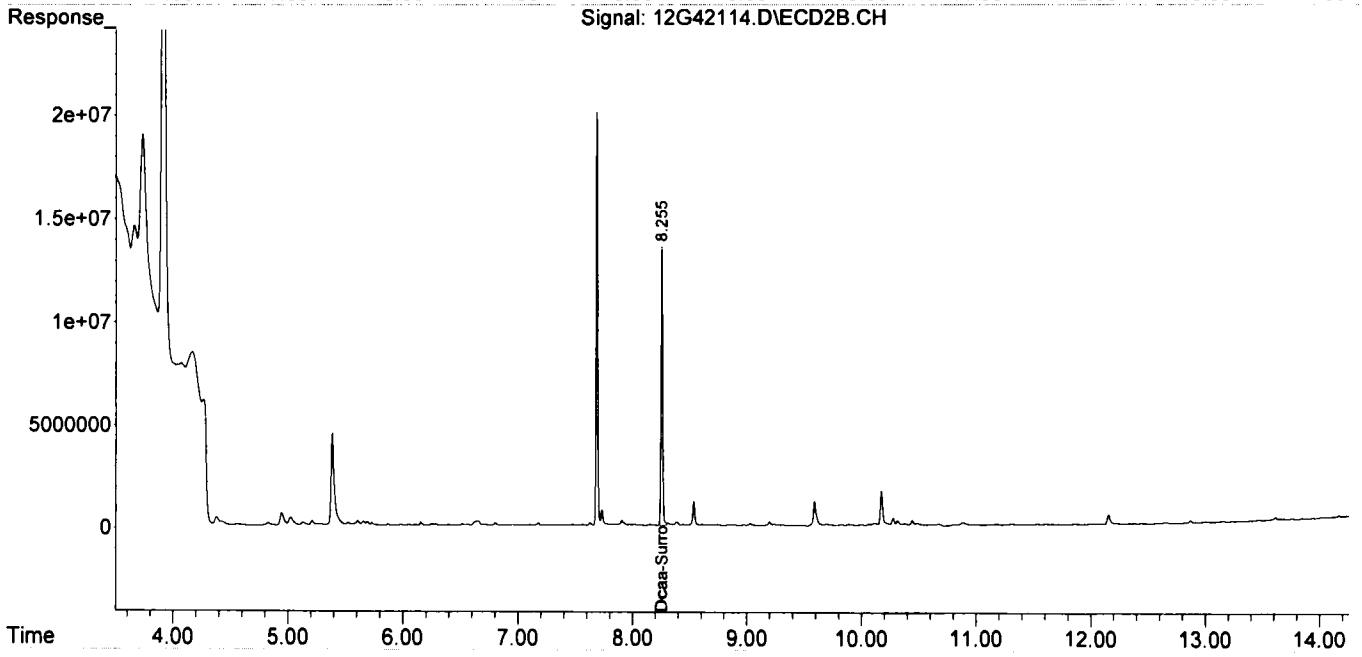
Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2023\GC_12\Data\06-30-23\
Data File : 12G42114.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 30-Jun-23, 12:23:55
Operator : PR/KM/AH
Sample : AD38798-002
Misc : A,HERB
ALS Vial : 35 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Jun 30 13:10:39 2023
Quant Method : G:\GCDATA\2023\GC_12\MethodQt\12G_HERB0522.M
Quant Title : @GC_12,ug,8151
QLast Update : Thu Jun 01 14:29:30 2023
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





GC Herbicide Data
Logbook Data

QC109463

Hampton-Clarke

AQUEOUS EXTRACTION by SEP FUNNEL

Method Blank No. WMB- 109463
Blank Spike (WMBS): _____
Blank Spike (WMBS): _____
Start Ext. Time: 7:30 PM
End Ext. Time: 5:30 PM
Recirculator: Start temp: _____
End temp: _____

Date: 06/29/23
Matrix Spike: MS387998-004
Matrix Spike: MS387998-005
Shaker used: 4,5,6
S Evap Used: _____
Condenser Flow _____ CCM

Method: Herb - 8151A

Sample Number	No. in batch	Initial Vol	10N NAOH pH≥12	H2SO4 pH =2	Final Vol	Hydrolysis Start / End Time		Esterification	Ext. by	TCLP QC	Ext. Fluid
MB109463	X	1000	✓	✓	10	12:30	2:30PM		PJ/GP		
MB2 109463											
MBS109463											
MS 387998-004											
MSD387998-005											
AB387998-002	1										
-006	2										
-007	3										

7/23

Spike Standard

Vol (ul)	Conc. (ppm/ppb)	Lot No.	
100	40	V-388406	Herb Spike

Surrogate Standard

Vol (ul)	Conc. (ppm/ppb)	Lot No.	
100	10	V-396403	Herb Surr.

Reagent Lots: MeCl2 15357 Acetone ~ Hexane 15256 Ether 14879 baked Na_2SO_4 388096
Silicic Acid 15052 10N NaOH 343232 1:1 H_2SO_4 384468 HCl 15244 Diazald 15018 NaCl ~
37% KOH 374353 Methanol 14261 Carbitol 11976 Iso-Octane 13863

Relinquished By: PJ/GP Date: 06/29/23
Received By: PR Date: 06/30/23

RUN LOG

1-1-12G41150

Instrument: GC_12 Year: 2023
Analyst: PR/KM/AH

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
12G41150.	CAL HERB@50PPB		B-34846,V-395954	KM 05/23/23,PR 05/30/23,PR 05/30/23,pr 05/30/23,pr		Aqueous	1	1	8151	05/22 09:11
12G41151.	CAL HERB@100PP		B-34846,V-395955	KM 05/23/23,PR 05/30/23,PR 05/30/23,pr 05/30/23,pr		Aqueous	1	1	8151	05/22 09:31
12G41152.	CAL HERB@200PP		B-34846,V-395956	KM 05/23/23,PR 05/30/23,PR 05/30/23,pr 05/30/23,pr		Aqueous	1	1	8151	05/22 09:51
12G41153.	CAL HERB@400PP		B-34846,V-395957	KM 05/23/23,PR 05/30/23,PR 05/30/23,pr 05/30/23,pr		Aqueous	1	1	8151	05/22 10:11
12G41154.	CAL HERB@500PP		B-34846,V-395958	KM 05/23/23,PR 05/30/23,PR 05/30/23,pr 05/30/23,pr		Aqueous	1	1	8151	05/22 10:31
12G41155.	CAL HERB@600PP		B-34846,V-395959	KM 05/23/23,PR 05/30/23,PR 05/30/23,pr 05/30/23,pr		Aqueous	1	1	8151	05/22 10:51
12G41156.	ICV HERB		V-395960,V-34846	KM 05/23/23,PR 05/30/23,PR 05/30/23,PR 05/31/23,PR		Aqueous	1	1	8151	05/22 11:16
12G41157.	TEST		TEST	PR 05/22/23		Aqueous	1	1	8151	05/22 11:36
12G41158.	WMB108540		OK	PR 05/22/23		Aqueous	1	1	8151	05/22 12:20
12G41159.	WMB108540(MS)		OK WMB108540	PR 05/22/23		Aqueous	1	1	8151	05/22 12:40
12G41160.	AD37540-006	Eo	RR5X	PR 05/22/23	HE-8151	Aqueous	1	1	8151	05/22 13:00
12G41161.	AD37540-006(5X)	Eo	OK CONFIRMED	PR 05/22/23	HE-8151	Aqueous	5	5	8151	05/22 13:25
12G41162.	37540-006(10X)		NOT USED	PR 05/22/23		Aqueous	10	10	8151	05/22 13:45
12G41163.	AD37977-001(T)(M		OK WMB108540	PR 05/22/23	HETCLP-815	Aqueous	1	1	8151	05/22 14:11
12G41164.	AD37977-001(T)(M	S8	OK WMB108540	PR 05/22/23	HETCLP-815	Aqueous	1	1	8151	05/22 14:43
12G41165.	WMB108507		OK	PR 05/22/23		Aqueous	1	1	8151	05/22 15:03
12G41166.	WMB108507(MS)		OK WMB108507	PR 05/22/23		Aqueous	1	1	8151	05/22 15:23
12G41167.	AD37999-001		OK	PR 05/22/23	HE-8151	Aqueous	1	1	8151	05/22 15:42
12G41168.	AD38008-004(T)		OK	PR 05/22/23	HETCLP-815	Aqueous	1	1	8151	05/22 16:02
12G41169.	AD38008-003(T)		OK	PR 05/22/23	HETCLP-815	Aqueous	1	1	8151	05/22 16:22
12G41170.	AD38008-001(T)		OK WMB108507	PR 05/22/23	HETCLP-815	Aqueous	1	1	8151	05/22 16:42
12G41171.	CAL HERB@200PP		OK,V-385093	PR 05/22/23		Aqueous	1	1	8151	05/22 17:02

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Cn	Warning Possible Carry Over
An	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Etn	Tcln/Solvent Extraction Date Missing/Not check'd	Crn	C30/C20 failed for anh
B8m	Blank 8000 series missing	Eto	Tcln Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C18	Calibration Column 1 Out (600 Series)	Hh	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rnd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rnd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Rn	Retention Time Out Or %Diff Out
C8f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt csv for init calibration chek rls	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

1-1-12G42099

RUN LOG

Instrument: GC_12 Year: 2023
Analyst: PR/KM/AH

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
12G42099.	CAL HERB@200PP		OK,V-395956	KM 07/05/23		Soil	1	1	8151	06/30 07:25
12G42100.	WMB109464		OK	KM 07/05/23		Aqueous	1	1	8151	06/30 07:46
12G42101.	WMB109464(MS)		OK WMB109464	KM 07/05/23		Aqueous	1	1	8151	06/30 08:05
12G42102.	AD38760-002(T)(M		OK WMB109464	KM 07/05/23	HETCLP-815	Aqueous	1	1	8151	06/30 08:25
12G42103.	AD38760-002(T)(M		OK WMB109464	KM 07/05/23	HETCLP-815	Aqueous	1	1	8151	06/30 08:45
12G42104.	AD38790-003(T)		OK	KM 07/05/23	HETCLP-815	Aqueous	1	1	8151	06/30 09:05
12G42105.	AD38790-004(T)		OK	KM 07/05/23	HETCLP-815	Aqueous	1	1	8151	06/30 09:25
12G42106.	AD38790-006(T)		OK	KM 07/05/23	HETCLP-815	Aqueous	1	1	8151	06/30 09:45
12G42107.	AD38790-002(T)		OK	KM 07/05/23	HETCLP-815	Aqueous	1	1	8151	06/30 10:05
12G42108.	AD38790-001(T)		OK	KM 07/05/23	HETCLP-815	Aqueous	1	1	8151	06/30 10:24
12G42109.	AD38790-005(T)		OK	KM 07/05/23	HETCLP-815	Aqueous	1	1	8151	06/30 10:44
12G42110.	WMB109463		OK	KM 07/05/23		Aqueous	1	1	8151	06/30 11:04
12G42111.	WMB109463(MS)		OK WMB109463	KM 07/05/23		Aqueous	1	1	8151	06/30 11:24
12G42112.	AD38798-004(MS:AEo		OK WMB109463	KM 07/05/23	HE-8151	Aqueous	1	1	8151	06/30 11:44
12G42113.	AD38798-005(MSD:Eo		OK WMB109463	KM 07/05/23	HE-8151	Aqueous	1	1	8151	06/30 12:03
12G42114.	AD38798-002	Eo	OK WMB109463	KM 07/05/23	HE-8151	Aqueous	1	1	8151	06/30 12:23
12G42115.	AD38798-006	Eo	OK	KM 07/05/23	HE-8151	Aqueous	1	1	8151	06/30 12:43
12G42116.	AD38798-007	Eo	OK	KM 07/05/23	HE-8151	Aqueous	1	1	8151	06/30 13:04
12G42117.	EF-1-V-397759(06/2		OK	KM 07/05/23		Aqueous	1	6	8151	06/30 13:24
12G42118.	AD38760-002(T)		OK WMB109464	KM 07/05/23	HETCLP-815	Aqueous	1	1	8151	06/30 13:44
12G42119.	CAL HERB@200PP		OK	KM 07/05/23		Soil	1	1	8151	06/30 14:04
12G42120.	SMB109474		OK	KM 07/05/23		Soil	1	1	8151	06/30 14:24
12G42121.	SMB109474(MS)	S8	OK SMB109474	KM 07/05/23		Soil	1	1	8151	06/30 14:44
12G42122.	AD38708-004	S8	RE-EXTRACT SMB109474	KM 07/05/23	HE-8151	Soil	1	1	8151	06/30 15:03
12G42123.	AD38708-002		OK	KM 07/05/23	HE-8151	Soil	1	1	8151	06/30 15:23
12G42124.	AD38708-006		OK	KM 07/05/23	HE-8151	Soil	1	1	8151	06/30 15:44
12G42125.	AD38708-004(MS)		OK SMB109474	KM 07/05/23	HE-8151	Soil	1	1	8151	06/30 16:04
12G42126.	AD38708-004(MSD)		OK SMB109474	KM 07/05/23	HE-8151	Soil	1	1	8151	06/30 16:24
12G42127.	TEST SURROGAT		TEST	KM 07/05/23		Soil	1	1	8151	06/30 16:44
12G42128.	CAL HERB@200PP		OK	KM 07/05/23		Soil	1	1	8151	06/30 17:04

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
An	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Etn	Tmln/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for aoh
B8m	Blank 8000 series missing	Eto	Tmln Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evm	Eval Mix missing drift or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rnd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rnd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt csv for init calibration chek rls	S6	600 series surrogate out
Cme	Endino Cal missing for sample (8000 series)	Iw	Initial cal warning Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a samol	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-395953

Prepared By: Hamid, Akmal
Description: HERB-INTER.
Prep Date: 5/19/2023
Expiration Date: 10/31/2023
Department: Organics
BatchNumber:
Concentration: 10 ppm
Final Volume: 1.5 ml
ApprovedBy: akmal
ApproveDate: 05/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14948	Method 8150 Mix-Methyl Derivative	750 ul	20 ppm	10 ppm
13873	DCAA Methyl Ester Std.	75 ul	1000 ppm	50 ppm
14344	Picloram Methyl Ester	15 ul	1000 ppm	10 ppm
15192	HEXANE	660 ul	Neat neat	neat neat

Veritech Lot Number: V-395954

Prepared By: Hamid, Akmal
Description: CAL HERB@50PPB (DANGER)
Prep Date: 5/19/2023
Expiration Date: 10/31/2023
Department: Organics
BatchNumber: B-34846
Concentration: 50 ppb
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 05/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	995 ul	Neat neat	neat neat
V-395953	HERB-INTER.	5 ul	10 ppm	50 ppm

Veritech Lot Number: V-395955

Prepared By: Hamid, Akmal
Description: CAL HERB@100PPB (DANGER)
Prep Date: 5/19/2023
Expiration Date: 10/31/2023
Department: Organics
BatchNumber: B-34846
Concentration: 100 ppb
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 05/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	990 ul	Neat neat	neat neat
V-395953	HERB-INTER.	10 ul	10 ppm	100 ppm

Veritech Lot Number: V-395956

Prepared By: Hamid, Akmal
Description: CAL HERB@200PPB (DANGER)
Prep Date: 5/19/2023
Expiration Date: 10/31/2023
Department: Organics
BatchNumber: B-34846
Concentration: 200 ppb
Final Volume: 1.5 ml
ApprovedBy: akmal
ApproveDate: 05/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	1470 ul	Neat neat	neat neat
V-395953	HERB-INTER.	30 ul	10 ppm	200 ppm

Veritech Lot Number: V-395957

Prepared By: Hamid, Akmal
Description: CAL HERB@400PPB (DANGER)
Prep Date: 5/19/2023
Expiration Date: 10/31/2023
Department: Organics
BatchNumber: B-34846
Concentration: 400 ppb
Final Volume: 1.5 ml
ApprovedBy: akmal
ApproveDate: 05/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	1440 ul	Neat neat	neat neat
V-395953	HERB-INTER.	60 ul	10 ppm	400 ppm

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-395958

Prepared By: Hamid, Akmal
Description: CAL HERB@500PPB (DANGER)
Prep Date: 5/19/2023
Expiration Date: 10/31/2023
Department: Organics
BatchNumber: B-34846
Concentration: 500 ppb
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 05/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	950 ul	Neat neat	neat neat
V-395953	HERB-INTER.	50 ul	10 ppm	500 ppm

Veritech Lot Number: V-395959

Prepared By: Hamid, Akmal
Description: CAL HERB@600PPB (DANGER)
Prep Date: 5/19/2023
Expiration Date: 10/31/2023
Department: Organics
BatchNumber: B-34846
Concentration: 600 ppb
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 05/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15192	HEXANE	940 ul	Neat neat	neat neat
V-395953	HERB-INTER.	60 ul	10 ppm	600 ppm

Veritech Lot Number: V-395960

Prepared By: Hamid, Akmal
Description: ICV-HERB (DANGER)
Prep Date: 5/19/2023
Expiration Date: 10/31/2023
Department: Organics
BatchNumber:
Concentration: 200 ppb
Final Volume: 2 ml
ApprovedBy: akmal
ApproveDate: 05/23/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14341	Method 8150 Mix-Methyl Der.	20 ul	20 ppm	200 ppb
13267	DCAA Methyl Ester STD.	3.2 ul	1000 ppm	1600 ppb
14344	Picloram Methyl Ester	.4 ul	1000 ppm	200 ppb
15192	HEXANE	1976.4 ul	Neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-343232

Prepared By: Nadler, Jacob
Description: 10N Sodium Hydroxide
Prep Date: 1/7/2021
Expiration Date: 8/31/2021
Department: Organics
BatchNumber:
Concentration: 10 n
Final Volume: 4000 ml
ApprovedBy: AKMAL
ApproveDate: 02/10/21
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
12651	DI H2O	4000 ml		10 n
13691	sodium hydroxide	1600 g	neat neat	10 n

Veritech Lot Number: V-378353

Prepared By: User, Organics
Description: 37%KOH
Prep Date: 8/20/2022
Expiration Date: 8/19/2023
Department: OrgPrep
BatchNumber:
Concentration: 37 %
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 08/29/22
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14229	Potassium hydroxide	1110 g	neat neat	37 %
	DI WATER FILL TO THE VOLUME	3000 ml		

Veritech Lot Number: V-388426

Prepared By: Hamid, Akmal
Description: HERBICIDE SPIKE (DANGER)
Prep Date: 1/27/2023
Expiration Date: 7/27/2023
Department: Organics
BatchNumber:
Concentration: 40 ppm
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 01/27/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15029	Methyl Alcohol	46 ml	neat neat	
15068	Chlorinated HERB.Std(For Spike)	2 ml	1000 ppm	40 ppm
15069	Picloram	2 ml	1000 ppm	40 ppm

Veritech Lot Number: V-396483

Prepared By: McCracken, Kaitlyn
Description: DCAA HERB LAB SURR (danger)
Prep Date: 6/1/2023
Expiration Date: 12/1/2023
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 06/02/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15194	2,4-Dichlorophenylacetic acid	5 ml	1000 ppm	100 ppm
15275	acetone	45 ml	neat neat	

Veritech Lot Number: V-398096

Prepared By: User, Organics
Description: BAKED sodium sulphate
Prep Date: 6/23/2023
Expiration Date: 7/22/2023
Department: Organics
BatchNumber:
Concentration: 4000 g
Final Volume: 4000 g
ApprovedBy: akmal
ApproveDate: 06/27/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15342	sodium sulfate	4000 g	neat neat	neat neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 13267

Description: DCAA Methyl Ester STD.

ApprovedBy: akmal
ApproveDate: 05/27/20
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Agilent	PPS-168-1	0006492846	05/26/20	10/31/23	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 13873

Description: DCAA Methyl Ester Std.

ApprovedBy: akmal
ApproveDate: 04/14/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Agilent	PPS-168-1	0006492846	04/14/21	10/31/23	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 14341

Description: Method 8150 Mix-Methyl Der.

ApprovedBy: akmal
ApproveDate: 05/17/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
AccuStandard	M-8150M	221111508	12/06/21	12/02/25	Revolus, Jean	2	1ml	20	PPM

Veritech Control/Receipt Number: 14344

Description: Picloram Methyl Ester

ApprovedBy: akmal
ApproveDate: 12/09/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Spex	S-3110A	NA211130028	12/08/21	12/05/24	Hamid, Akmal	2	1ML	1000	PPM

Veritech Control/Receipt Number: 14948

Description: Method 8150 Mix-Methyl Derivative

ApprovedBy: jean
ApproveDate: 11/17/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	M-8150M-PAK	221111508	11/17/22	12/02/25	User, Organics	5	1ml	20	PPM

Veritech Control/Receipt Number: 15192

Description: HEXANE

ApprovedBy: akmal
ApproveDate: 04/11/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
TEDIA	HA1721	22090086	04/04/23	04/03/28	Longton, Rhys	60	4L	Neat	Neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 12651

Description: DI H2O

ApprovedBy: janee
ApproveDate: 10/10/19
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
EVOQUA	1	1	07/08/19	07/07/20	Cousineau, Paul	1			

Veritech Control/Receipt Number: 13691

Description: Sodium Hydroxide

ApprovedBy: jean
ApproveDate: 01/07/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Laboratory Sales	LS-2755095	2018100546	01/07/21	08/31/21	Lopez, Jose	2	12kg	neat	neat

Veritech Control/Receipt Number: 14229

Description: Potassium hydroxide

ApprovedBy: akmal
ApproveDate: 10/12/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Fisher	P250-3	214065	10/08/21	10/07/23	Lopez, Jose	1	3Kg	neat	neat

Veritech Control/Receipt Number: 15029

Description: Methyl Alcohol

ApprovedBy: akmal
ApproveDate: 01/20/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Tedia	MP1924	22080306	01/16/23	01/16/28	Lopez, Jose	6	1L	neat	neat

Veritech Control/Receipt Number: 15068

Description: Chlorinated HERB.Std(For Spike)

ApprovedBy: akmal
ApproveDate: 01/27/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Agilent	HBM-545-1	0006665673	01/27/23	03/31/24	Hamid, Akmal	5	1ML	1000	PPM

Veritech Control/Receipt Number: 15069

Description: Picloram

ApprovedBy: akmal
ApproveDate: 01/27/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Agilent	EPA-1175-1	0006697804	01/27/23	09/30/23	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 15194

Description: 2,4-Dichlorophenylacetic acid

ApprovedBy: akmal
ApproveDate: 04/11/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	M-8150B-SS-10X	221051049-01	04/05/23	06/17/25	Revolus, Jean	10	1ml	1000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15275

Description: acetone

ApprovedBy: akmal
ApproveDate: 05/16/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Tedia	AA1111	22070110	05/15/23	07/23/24	Lopez, Jose	48	4L	neat	neat

Veritech Control/Receipt Number: 15342

Description: sodium sulfate

ApprovedBy: akmal
ApproveDate: 06/07/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Allan Corp.	6399	208404	06/05/23	06/04/28	Lopez, Jose	6	100L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 11976

Description: diethylene glycol

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Fisher	D50-4	182041	09/14/18	04/30/33	Lopez, Jose	4	4L	neat	neat

Veritech Control/Receipt Number: 13863

Description: Iso octane

ApprovedBy: akmal
ApproveDate: 04/09/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Fisher	O299-4	204930	04/09/21	11/30/25	Lopez, Jose	1	4L	neat	neat

Veritech Control/Receipt Number: 14261

Description: METHANOL

ApprovedBy: jessica
ApproveDate: 10/27/21
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Tedia	LS-1950010	21070088	10/27/21	10/26/26	Patel, Jessica	6	4 L	NEAT	NEAT

Veritech Control/Receipt Number: 14879

Description: ehtyl ether

ApprovedBy: jean
ApproveDate: 10/13/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco/EMD	EXO182-1	SHBP6054	10/12/22	05/31/23	Lopez, Jose	48	4L	neat	neat

Veritech Control/Receipt Number: 15018

Description: Diazald(N-Methyl-N-nitrosotoluene-4-sulphonamide)

ApprovedBy: akmal
ApproveDate: 01/10/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Ontario Chemical	M3996	2202-0306HT	12/28/22	02/24/24	Hamid, Akmal	1	5KG	NEAT	NEAT

Veritech Control/Receipt Number: 15052

Description: Silicic Acid

ApprovedBy: akmal
ApproveDate: 01/24/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Fisher	A288-500	223515	01/23/23	09/30/27	Lopez, Jose	1	500g	neat	neat

Veritech Control/Receipt Number: 15244

Description: Hydrochloric Acid

ApprovedBy: akmal
ApproveDate: 06/13/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J . T , BAKER	9539-05	23B1462010	04/28/23	08/17/24	Cajuste, Pierre	16	2.5 L	Neat	Neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15286

Description
n-hexanes

ApprovedBy: akmal
ApproveDate: 05/23/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Tedia	HA1721-001	22090086	05/18/23	10/19/24	Lopez, Jose	48	4L	neat	neat

Veritech Control/Receipt Number: 15357

Description
Dichloromethane

ApprovedBy: akmal
ApproveDate: 06/13/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco/EMD	DX0831	63083	06/12/23	06/11/28	Lopez, Jose	100	4L	neat	neat

Metal Data

Metal Data
Sample Data

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38798-001	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	MW-1_6.22.23	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	3.0	ND	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA
7440-38-2	Arsenic	2.0	ND	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA
7440-47-3	Chromium	2.0	2.2	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA
7440-50-8	Copper	10	ND	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA
7439-92-1	Lead	3.0	12	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA
7440-02-0	Nickel	3.0	ND	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA
7782-49-2	Selenium	10	ND	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA
7440-22-4	Silver	1.0	ND	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA
7440-28-0	Thallium	2.0	ND	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA
7440-66-6	Zinc	20	ND	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38798-001	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	MW-1_6.22.23	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.50	ND	1	25	25	06/30/23	107918	H29906SW	17	CV	HGCV3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38798-002	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	MW-2_6.22.23	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-36-0	Antimony	3.0	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-38-2	Arsenic	2.0	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-39-3	Barium	5.0	66	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-70-2	Calcium	500	94000	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-47-3	Chromium	2.0	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-48-4	Cobalt	2.0	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-50-8	Copper	10	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7439-89-6	Iron	300	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7439-92-1	Lead	3.0	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7439-95-4	Magnesium	500	16000	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7439-96-5	Manganese	6.0	360	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-02-0	Nickel	3.0	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-09-7	Potassium	500	2500	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7782-49-2	Selenium	10	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-22-4	Silver	1.0	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-23-5	Sodium	500	150000	1	50	100	06/29/23	107918	06292023A	24	MS	MS4_7800SWA
7440-28-0	Thallium	2.0	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-62-2	Vanadium	2.0	ND	1	50	100	06/29/23	107918	06292023A	24	MS	MS4_7800SWA
7440-66-6	Zinc	20	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38798-002	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	MW-2_6.22.23	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.50	ND	1	25	25	06/30/23	107918	H29906SW	13	CV	HGCV3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38798-003	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	MW-3_6.22.23	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	3.0	ND	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA
7440-38-2	Arsenic	2.0	2.0	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA
7440-47-3	Chromium	2.0	ND	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA
7440-50-8	Copper	10	ND	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA
7439-92-1	Lead	3.0	5.7	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA
7440-02-0	Nickel	3.0	ND	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA
7782-49-2	Selenium	10	ND	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA
7440-22-4	Silver	1.0	ND	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA
7440-28-0	Thallium	2.0	ND	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA
7440-66-6	Zinc	20	ND	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38798-003	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	MW-3_6.22.23	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.50	ND	1	25	25	06/30/23	107918	H29906SW	18	CV	HGCV3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38798-004	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	MW-2_6.22.23-MS	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	5300	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7440-36-0	Antimony	3.0	470	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7440-38-2	Arsenic	2.0	540	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7440-39-3	Barium	5.0	530	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7440-41-7	Beryllium	1.0	480	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7440-43-9	Cadmium	2.0	460	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7440-70-2	Calcium	500	160000	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7440-47-3	Chromium	2.0	560	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7440-48-4	Cobalt	2.0	540	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7440-50-8	Copper	10	530	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7439-89-6	Iron	300	5700	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7439-92-1	Lead	3.0	460	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7439-95-4	Magnesium	500	72000	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7439-96-5	Manganese	6.0	990	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7440-02-0	Nickel	3.0	520	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7440-09-7	Potassium	500	54000	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7782-49-2	Selenium	10	520	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7440-22-4	Silver	1.0	84	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7440-23-5	Sodium	500	200000	1	50	100	06/29/23	107918	06292023A	27	MS	MS4_7800SWA
7440-28-0	Thallium	2.0	460	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA
7440-62-2	Vanadium	2.0	500	1	50	100	06/29/23	107918	06292023A	27	MS	MS4_7800SWA
7440-66-6	Zinc	20	510	1	50	100	06/28/23	107918	06282023A	27	MS	MS4_7800SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38798-004	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	MW-2_6.22.23-MS	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.50	9.8	1	25	25	06/30/23	107918	H29906SW	15	CV	HGCV3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38798-005	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	MW-2_6.22.23-MSD	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	4800	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7440-36-0	Antimony	3.0	500	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7440-38-2	Arsenic	2.0	480	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7440-39-3	Barium	5.0	550	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7440-41-7	Beryllium	1.0	510	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7440-43-9	Cadmium	2.0	490	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7440-70-2	Calcium	500	160000	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7440-47-3	Chromium	2.0	510	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7440-48-4	Cobalt	2.0	480	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7440-50-8	Copper	10	470	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7439-89-6	Iron	300	5200	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7439-92-1	Lead	3.0	480	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7439-95-4	Magnesium	500	66000	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7439-96-5	Manganese	6.0	890	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7440-02-0	Nickel	3.0	470	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7440-09-7	Potassium	500	49000	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7782-49-2	Selenium	10	470	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7440-22-4	Silver	1.0	89	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7440-23-5	Sodium	500	200000	1	50	100	06/29/23	107918	06292023A	28	MS	MS4_7800SWA
7440-28-0	Thallium	2.0	470	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA
7440-62-2	Vanadium	2.0	490	1	50	100	06/29/23	107918	06292023A	28	MS	MS4_7800SWA
7440-66-6	Zinc	20	470	1	50	100	06/28/23	107918	06282023A	28	MS	MS4_7800SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38798-005	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	MW-2_6.22.23-MSD	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.50	10	1	25	25	06/30/23	107918	H29906SW	16	CV	HGCV3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38798-006	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	DUP-1	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-36-0	Antimony	3.0	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-38-2	Arsenic	2.0	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-39-3	Barium	5.0	66	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-70-2	Calcium	500	100000	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-47-3	Chromium	2.0	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-48-4	Cobalt	2.0	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-50-8	Copper	10	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7439-89-6	Iron	300	320	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7439-92-1	Lead	3.0	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7439-95-4	Magnesium	500	17000	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7439-96-5	Manganese	6.0	360	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-02-0	Nickel	3.0	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-09-7	Potassium	500	2400	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7782-49-2	Selenium	10	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-22-4	Silver	1.0	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-23-5	Sodium	500	150000	1	50	100	06/29/23	107918	06292023A	33	MS	MS4_7800SWA
7440-28-0	Thallium	2.0	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-62-2	Vanadium	2.0	ND	1	50	100	06/29/23	107918	06292023A	33	MS	MS4_7800SWA
7440-66-6	Zinc	20	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38798-006	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	DUP-1	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.50	ND	1	25	25	06/30/23	107918	H29906SW	19	CV	HGCV3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38798-007	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	Field Blank	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-36-0	Antimony	3.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-38-2	Arsenic	2.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-39-3	Barium	5.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-70-2	Calcium	500	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-47-3	Chromium	2.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-48-4	Cobalt	2.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-50-8	Copper	10	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7439-89-6	Iron	300	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7439-92-1	Lead	3.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7439-95-4	Magnesium	500	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7439-96-5	Manganese	6.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-02-0	Nickel	3.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-09-7	Potassium	500	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7782-49-2	Selenium	10	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-22-4	Silver	1.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-23-5	Sodium	500	ND	1	50	100	06/29/23	107918	06292023A	34	MS	MS4_7800SWA
7440-28-0	Thallium	2.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-62-2	Vanadium	2.0	ND	1	50	100	06/29/23	107918	06292023A	34	MS	MS4_7800SWA
7440-66-6	Zinc	20	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38798-007	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	Field Blank	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.50	ND	1	25	25	06/30/23	107918	H29906SW	22	CV	HGCV3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Metal Data
QC Data

FORM 2
(ICV/CCV Summary)

Date Analyzed: 06/28/23
Data File: SW06282023A
Prep Batch: 107918
Analytical Method:6010D, 6020B, 7470A, 7471B
Instrument: MS4_7800SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 3062404

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-397987-9	Rec	CCV V-397991-19	Rec	CCV V-397991-31	Rec	CCV V-397991-39	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	5000/1500	5260.3560 c	105	1515.1380 c	101	1479.6250 c	99	1484.9840 c	99					
Antimony	50/50	48.36300	97	48.05400	96	49.25800	99	47.69900	95					
Arsenic	50/50	49.68400	99	51.04600	102	50.20800	100	49.66400	99					
Barium	50/50	49.05800	98	49.86800	100	50.02300	100	48.74800	97					
Beryllium	50/50	48.90700	98	49.89600	100	49.85000	100	49.85800	100					
Cadmium	50/50	49.38300	99	49.68700	99	50.07100	100	48.39400	97					
Calcium	5000/5000	4860.0960 c	97	5091.7940 c	102	4984.7340 c	100	4984.6240 c	100					
Chromium	50/50	48.79200	98	51.10600	102	50.19900	100	49.89900	100					
Cobalt	50/50	48.16100	96	50.29000	101	49.84800	100	49.56400	99					
Copper	50/50	49.17600	98	51.46200	103	51.42000	103	50.93000	102					
Iron	5000/5000	4988.4570 c	100	5185.4950 c	104	5089.8100 c	102	5067.3300 c	101					
Lead	50/50	49.07700	98	49.36700	99	49.92900	100	49.54100	99					
Magnesium	5000/5000	5094.5120 c	102	5172.2340 c	103	5073.1560 c	101	5167.6480 c	103					
Manganese	50/50	49.37000	99	51.11300	102	50.22800	100	49.87700	100					
Nickel	50/50	49.45700	99	51.05200	102	50.52600	101	50.79000	102					
Potassium	5000/5000	5012.4890 c	100	5123.3580 c	102	4985.6260 c	100	5051.6740 c	101					
Selenium	50/250	50.70400	101	254.83200	102	248.31600	99	250.10600	100					
Silver	10/50	9.91300	99	48.43800	97	50.02000	100	48.23500	96					
Thallium	50/50	48.39700	97	51.71100	103	52.25800	105	52.60900	105					
Zinc	50/50	48.80200	98	51.37800	103	50.99800	102	50.42500	101					

Notes: a-indicates analyte failed the ICV limits for 6010D/6020B
b-indicates analyte failed the ICV limits for 200.7/200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010D/6020B/Hg 7470A/7471B
d-indicates analyte failed the CCV limits for Hg 7470A/7471B

Qc Limits: ICV - 200.7/245.1 (95-105)
ICV - 200.8/6010D/6020B/Hg 7470A/7471B (90-110)
CCV - 200.7/200.8/6010D/6020B/Hg 245.1/7470A/7471B (90-110)

FORM 2
LLQCS/LRS Summary)

Date Analyzed: 06/28/23
Data File: SW06282023A
Prep Batch: 107918
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: MS4_7800SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 3062404

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

Analyte	LLQCS Spike Amount	LLICV V-397992	Recovery	Low Limit	High Limit		LRS Spike Amount	LRS V-397990	Recovery	Low Limit	High Limit
Magnesium	250	242.160	97	80	120		200000	196071.999	98	90	110
Aluminum	100	100.764	101	80	120		165000	166677.064	101	90	110
Arsenic	1	0.937	94	80	120		500	512.170	102	90	110
Barium	2.5	2.426	97	80	120		2500	2368.363	95	90	110
Beryllium	0.5	0.471	94	80	120		500	518.948	104	90	110
Calcium	250	258.959	104	80	120		200000	197374.172	99	90	110
Cadmium	1	0.924	92	80	120		500	486.029	97	90	110
Cobalt	1	0.950	95	80	120		500	489.970	98	90	110
Chromium	1	0.933	93	80	120		500	535.149	107	90	110
Copper	5	5.884	118	80	120		2500	2597.161	104	90	110
Silver	0.5	0.465	93	80	120		500	184.490	37 a	90	110
Potassium	250	269.184	108	80	120		200000	196981.238	98	90	110
Zinc	10	11.994	120	80	120		2500	2524.546	101	90	110
Manganese	3	3.205	107	80	120		2500	2498.080	100	90	110
Molybdenum	1	0.933	93	80	120		500	514.274	103	90	110
Sodium	250	308.385	123 a	80	120		200000	201566.692	101	90	110
Nickel	1.5	1.655	110	80	120		500	514.521	103	90	110
Lead	1.5	1.432	95	80	120		2500	2503.878	100	90	110
Antimony	1.5	1.608	107	80	120		500	493.310	99	90	110
Selenium	5	4.726	95	80	120		2500	2476.981	99	90	110
Thallium	1	1.067	107	80	120		500	476.439	95	90	110
Vanadium	1	0.946	95	80	120		500	553.610	111 a	90	110
Iron	150	151.777	101	80	120		200000	192955.135	96	90	110

Notes: a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

FORM 2
(ICV/CCV Summary)

Date Analyzed: 06/29/23
Data File: SW06292023A
Prep Batch: 107918
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: MS4_7800SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 3062404

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-397987-9	Rec	CCV V-397991-19	Rec	CCV V-397991-31	Rec	CCV V-397991-37	Rec	Rec	Rec	Rec	Rec
Sodium	5000/5000	4757.2210 n	95	5030.2710 n	101	4805.6550 n	96	5016.6040 n	100				
Vanadium	50/50	47.38400	95	49.42800	99	48.04600	96	49.13200	98				

Notes:
a-indicates analyte failed the ICV limits for 6010D/6020B
b-indicates analyte failed the ICV limits for 200.7/200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010D/6020B/Hg 7470A/7471B
d-indicates analyte failed the CCV limits for Hg 7470A/7471B

Qc Limits:
ICV - 200.7/245.1 (95-105)
ICV - 200.8/6010D/6020B/Hg 7470A/7471B (90-110)
CCV - 200.7/200.8/6010D/6020B/Hg 245.1/7470A/7471B (90-110)

FORM 2
LLQCS/LRS Summary)

Date Analyzed: 06/29/23
Data File: SW06292023A
Prep Batch: 107918
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: MS4_7800SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 3062404

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
LLQCS/LRS SOURCE: SPEX

Analyte	LLQCS Spike Amount	LLICV V-397992	Recovery	Low Limit	High Limit		LRS Spike Amount	LRS V-397990	Recovery	Low Limit	High Limit
Magnesium	250	231.676	93	80	120		200000	197708.014	99	90	110
Aluminum	100	95.962	96	80	120		165000	166391.713	101	90	110
Arsenic	1	0.947	95	80	120		500	515.508	103	90	110
Barium	2.5	2.355	94	80	120		2500	2387.583	96	90	110
Beryllium	0.5	0.431	86	80	120		500	508.823	102	90	110
Calcium	250	225.899	90	80	120		200000	193667.771	97	90	110
Cadmium	1	0.939	94	80	120		500	478.583	96	90	110
Cobalt	1	0.918	92	80	120		500	490.941	98	90	110
Chromium	1	0.918	92	80	120		500	538.531	108	90	110
Copper	5	4.622	92	80	120		2500	2577.608	103	90	110
Silver	0.5	0.468	94	80	120		500	230.656	46 a	90	110
Potassium	250	225.609	90	80	120		200000	192484.090	96	90	110
Zinc	10	7.174	72 a	80	120		2500	2555.183	102	90	110
Manganese	3	2.857	95	80	120		2500	2461.369	98	90	110
Molybdenum	1	0.962	96	80	120		500	509.880	102	90	110
Sodium	250	226.990	91	80	120		200000	200331.283	100	90	110
Nickel	1.5	1.408	94	80	120		500	503.848	101	90	110
Lead	1.5	1.415	94	80	120		2500	2473.119	99	90	110
Antimony	1.5	1.455	97	80	120		500	479.640	96	90	110
Selenium	5	4.860	97	80	120		2500	2482.698	99	90	110
Thallium	1	1.170	117	80	120		500	463.529	93	90	110
Vanadium	1	0.899	90	80	120		500	549.881	110	90	110
Iron	150	144.898	97	80	120		200000	196071.376	98	90	110

Notes: a-indicates analyte is outsite the limits.

If linear range sample (LRS) exceeds criteria, high standard becomes upper limit criteria

FORM 2
(ICV/CCV Summary)

Date Analyzed: 06/30/23
Data File: H29906SW
Prep Batch: 107918
Analytical Method: 6010D, 6020B, 7470A, 7471B
Instrument: HGCV3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 3062404

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV (2) V-398266-8	Rec	CCV V-398267-20	Rec	CCV V-398267-24	Rec		Rec		Rec		Rec		Rec		Rec
Mercury	20/10	19.62000	98	10.55000	106	10.43000	104										

Notes:
a-indicates analyte failed the ICV limits for 6010D/6020B
b-indicates analyte failed the ICV limits for 200.7/200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010D/6020B/Hg 7470A/7471B
d-indicates analyte failed the CCV limits for Hg 7470A/7471B

Qc Limits:
ICV - 200.7/245.1 (95-105)
ICV - 200.8/6010D/6020B/Hg 7470A/7471B (90-110)
CCV - 200.7/200.8/6010D/6020B/Hg 245.1/7470A/7471B (90-110)

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 06/28/23
Data File: SW06282023A
Prep Batch: 107918
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS4_7800SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 3062404

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-397988-11	CCB V-397988-20	CCB V-397988-32	CCB V-397988-40	MB 107918-21			
Aluminum	50 U	100 U	100 U	100 U	100 U			
Antimony	.75 U	1.5 U	1.5 U	1.5 U	1.5 U			
Arsenic	.5 U	1 U	1 U	1 U	1 U			
Barium	1.25 U	2.5 U	2.5 U	2.5 U	2.5 U			
Beryllium	.25 U	.5 U	.5 U	.5 U	.5 U			
Cadmium	.5 U	1 U	1 U	1 U	1 U			
Calcium	125 U	250 U	250 U	250 U	250 U			
Chromium	.5 U	1 U	1 U	1 U	1 U			
Cobalt	.5 U	1 U	1 U	1 U	1 U			
Copper	2.5 U	5 U	5 U	5 U	5 U			
Iron	75 U	150 U	150 U	150 U	150 U			
Lead	.75 U	1.5 U	1.5 U	1.5 U	1.5 U			
Magnesium	125 U	250 U	250 U	250 U	250 U			
Manganese	1.5 U	3 U	3 U	3 U	3 U			
Nickel	.75 U	1.5 U	1.5 U	1.5 U	1.5 U			
Potassium	125 U	250 U	250 U	250 U	250 U			
Selenium	2.5 U	5 U	5 U	5 U	5 U			
Silver	.25 U	.5 U	.5 U	.5 U	.5 U			
Thallium	.5 U	1 U	1 U	1 U	1 U			
Zinc	5 U	10 U	10 U	10 U	10 U			

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 06/29/23
Data File: SW06292023A
Prep Batch: 107918
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS4_7800SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 3062404

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-397988-11	CCB V-397988-20	CCB V-397988-32	CCB V-397988-38	MB 107918-21			
Sodium	125 U	250 U	250 U	250 U	250 U			
Vanadium	.5 U	1 U	1 U	1 U	1 U			

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 06/30/23
Data File: H29906SW
Prep Batch: 107918
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: HGCV3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 3062404

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-398268-9	CCB V-398268-21	CCB V-398268-25	MB 107918 (1)-10				
Mercury	.5 U	.5 U	.5 U	.5 U				

Notes: a -for methods 7470A, 7471B indicates absolute value of result found above the reporting limits in ICB/CCB/MB.
for methods 6010D, 6020B indicates absolute value of result found above the reporting limit in CCB or above 1/2 the reporting limit in ICB/MB.

u-indicates result below reporting criteria.

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 06/28/23
Data File: SW06282023A
Prep Batch: 107918
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS4_7800SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 3062404

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-397989-12	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	50000	51965.36	104							
Antimony	0	U								
Arsenic	0	U								
Barium	0	U								
Beryllium	0	U								
Cadmium	0	U								
Calcium	150000	148007.1	99							
Chromium	0	U								
Cobalt	0	1.098b								
Copper	0	U								
Iron	125000	123470.1	99							
Lead	0	U								
Magnesium	50000	48939.41	98							
Manganese	0	U								
Nickel	0	U								
Potassium	50000	49201.83	98							
Selenium	0	U								
Silver	0	U								
Thallium	0	U								
Zinc	0	U								

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

Qc Limits: 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 06/29/23
Data File: SW06292023A
Prep Batch: 107918
Reporting Limits Used: 6010D, 6020B, 7470A, 7471B
Instrument: MS4_7800SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 3062404

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-397989-12	Rec	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	50000	48759.89	98							
Calcium	150000	141286.2	94							
Iron	125000	119375.3	96							
Magnesium	50000	46495.24	93							
Sodium	125000	119005	95							
Vanadium	0	U								

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

Qc Limits: 200.7, 6020B < 2 * Reporting Limit
6010D < Reporting Limit

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 107918

Instrument Type: ICPMS
Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCS | Matrix: AQUEOUS | SampleID: LCS 107918

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Aluminum	107918	1	SW062820	22	2318.8660	2500	93		80	120
Antimony	107918	1	SW062820	22	222.5800	250	89		80	120
Arsenic	107918	1	SW062820	22	230.4280	250	92		80	120
Barium	107918	1	SW062820	22	214.9810	250	86		80	120
Beryllium	107918	1	SW062820	22	230.9610	250	92		80	120
Cadmium	107918	1	SW062820	22	223.2870	250	89		80	120
Calcium	107918	1	SW062820	22	22340.6220	25000	89		80	120
Chromium	107918	1	SW062820	22	244.4270	250	98		80	120
Cobalt	107918	1	SW062820	22	232.2130	250	93		80	120
Copper	107918	1	SW062820	22	227.3210	250	91		80	120
Iron	107918	1	SW062820	22	2364.9020	2500	95		80	120
Lead	107918	1	SW062820	22	222.9280	250	89		80	120
Magnesium	107918	1	SW062820	22	22971.3520	25000	92		80	120
Manganese	107918	1	SW062820	22	228.5650	250	91		80	120
Nickel	107918	1	SW062820	22	227.6860	250	91		80	120
Potassium	107918	1	SW062820	22	22284.5680	25000	89		80	120
Selenium	107918	1	SW062820	22	226.8720	250	91		80	120
Silver	107918	1	SW062820	22	40.8400	50	82		80	120
Sodium	107918	1	SW062920	22	22277.8030	25000	89		80	120
Thallium	107918	1	SW062820	22	221.4100	250	89		80	120
Vanadium	107918	1	SW062920	22	233.8000	250	94		80	120
Zinc	107918	1	SW062820	22	228.6880	250	91		80	120

TxtQcType: LCSMR | Matrix: AQUEOUS | SampleID: LCS MR 107918

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Aluminum	107918	1	SW062820	23	2426.4400	2500	97		80	120
Antimony	107918	1	SW062820	23	230.8780	250	92		80	120
Arsenic	107918	1	SW062820	23	239.6430	250	96		80	120
Barium	107918	1	SW062820	23	227.2880	250	91		80	120
Beryllium	107918	1	SW062820	23	239.3250	250	96		80	120
Cadmium	107918	1	SW062820	23	228.8660	250	92		80	120
Calcium	107918	1	SW062820	23	23500.8460	25000	94		80	120
Chromium	107918	1	SW062820	23	255.3070	250	102		80	120
Cobalt	107918	1	SW062820	23	243.5920	250	97		80	120
Copper	107918	1	SW062820	23	237.3590	250	95		80	120
Iron	107918	1	SW062820	23	2493.7150	2500	100		80	120
Lead	107918	1	SW062820	23	236.4420	250	95		80	120
Magnesium	107918	1	SW062820	23	24179.8310	25000	97		80	120
Manganese	107918	1	SW062820	23	238.5500	250	95		80	120
Nickel	107918	1	SW062820	23	238.5480	250	95		80	120
Potassium	107918	1	SW062820	23	23542.0770	25000	94		80	120
Selenium	107918	1	SW062820	23	238.3560	250	95		80	120
Silver	107918	1	SW062820	23	41.9630	50	84		80	120
Sodium	107918	1	SW062920	23	23431.4590	25000	94		80	120
Thallium	107918	1	SW062820	23	229.0830	250	92		80	120
Vanadium	107918	1	SW062920	23	243.0210	250	97		80	120
Zinc	107918	1	SW062820	23	239.6220	250	96		80	120

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 107918

Instrument Type: ICPMS

Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: MS Matrix: AQUEOUS SampleID: AD38798-004

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Aluminum	107918	1	SW062820	27	SW062820	24	2673.2880	100U	2500	107		75	125
Antimony	107918	1	SW062820	27	SW062820	24	234.8860	1.5U	250	94		75	125
Arsenic	107918	1	SW062820	27	SW062820	24	267.8530	1U	250	107		75	125
Barium	107918	1	SW062820	27	SW062820	24	263.1000	32.8200	250	92		75	125
Beryllium	107918	1	SW062820	27	SW062820	24	241.6520	0.5U	250	97		75	125
Cadmium	107918	1	SW062820	27	SW062820	24	231.7170	1U	250	93		75	125
Calcium	107918	1	SW062820	27	SW062820	24	82216.9620	47172.1880	25000	140	a	75	125
Chromium	107918	1	SW062820	27	SW062820	24	281.7510	1U	250	113		75	125
Cobalt	107918	1	SW062820	27	SW062820	24	268.0630	1U	250	107		75	125
Copper	107918	1	SW062820	27	SW062820	24	264.0340	5U	250	106		75	125
Iron	107918	1	SW062820	27	SW062820	24	2858.7420	150U	2500	114		75	125
Lead	107918	1	SW062820	27	SW062820	24	232.0350	1.5U	250	93		75	125
Magnesium	107918	1	SW062820	27	SW062820	24	35801.3330	8107.6790	25000	111		75	125
Manganese	107918	1	SW062820	27	SW062820	24	494.0900	181.9170	250	125		75	125
Nickel	107918	1	SW062820	27	SW062820	24	259.2700	1.5U	250	104		75	125
Potassium	107918	1	SW062820	27	SW062820	24	27227.4860	1273.3220	25000	104		75	125
Selenium	107918	1	SW062820	27	SW062820	24	258.5310	5U	250	103		75	125
Silver	107918	1	SW062820	27	SW062820	24	41.9900	0.5U	50	84		75	125
Sodium	107918	1	SW062920	27	SW062920	24	101501.3530	74523.4170	25000	108		75	125
Thallium	107918	1	SW062820	27	SW062820	24	228.6030	1U	250	91		75	125
Vanadium	107918	1	SW062920	27	SW062920	24	252.3630	1U	250	101		75	125
Zinc	107918	1	SW062820	27	SW062820	24	257.2070	10U	250	103		75	125

TxtQcType: MSD Matrix: AQUEOUS SampleID: AD38798-005

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Aluminum	107918	1	SW062820	28	SW062820	24	2418.5840	100U	2500	97		75	125
Antimony	107918	1	SW062820	28	SW062820	24	249.0310	1.5U	250	100		75	125
Arsenic	107918	1	SW062820	28	SW062820	24	240.7220	1U	250	96		75	125
Barium	107918	1	SW062820	28	SW062820	24	274.0750	32.8200	250	97		75	125
Beryllium	107918	1	SW062820	28	SW062820	24	253.3750	0.5U	250	101		75	125
Cadmium	107918	1	SW062820	28	SW062820	24	245.5750	1U	250	98		75	125
Calcium	107918	1	SW062820	28	SW062820	24	77666.9250	47172.1880	25000	122		75	125
Chromium	107918	1	SW062820	28	SW062820	24	255.6730	1U	250	102		75	125
Cobalt	107918	1	SW062820	28	SW062820	24	241.3630	1U	250	97		75	125
Copper	107918	1	SW062820	28	SW062820	24	234.3880	5U	250	94		75	125
Iron	107918	1	SW062820	28	SW062820	24	2583.8190	150U	2500	103		75	125
Lead	107918	1	SW062820	28	SW062820	24	242.3160	1.5U	250	97		75	125
Magnesium	107918	1	SW062820	28	SW062820	24	32994.6070	8107.6790	25000	100		75	125
Manganese	107918	1	SW062820	28	SW062820	24	445.9580	181.9170	250	106		75	125
Nickel	107918	1	SW062820	28	SW062820	24	233.6810	1.5U	250	93		75	125
Potassium	107918	1	SW062820	28	SW062820	24	24724.1460	1273.3220	25000	94		75	125
Selenium	107918	1	SW062820	28	SW062820	24	233.2770	5U	250	93		75	125
Silver	107918	1	SW062820	28	SW062820	24	44.3250	0.5U	50	89		75	125
Sodium	107918	1	SW062920	28	SW062920	24	102228.9920	74523.4170	25000	111		75	125
Thallium	107918	1	SW062820	28	SW062820	24	235.5700	1U	250	94		75	125
Vanadium	107918	1	SW062920	28	SW062920	24	247.3890	1U	250	99		75	125
Zinc	107918	1	SW062820	28	SW062820	24	234.3560	10U	250	94		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 107918

Instrument Type: ICPMS
Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS | Matrix: AQUEOUS | SampleID: AD38798-002

Analyte	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Aluminum	1	SW062820	29	SW062820	24	1454.7690	100U	1550	94		80	120
Antimony	1	SW062820	29	SW062820	24	48.5100	1.5U	50	97		80	120
Arsenic	1	SW062820	29	SW062820	24	50.3420	1U	50	101		80	120
Barium	1	SW062820	29	SW062820	24	78.0030	32.8200	50	90		80	120
Beryllium	1	SW062820	29	SW062820	24	46.6060	0.5U	50	93		80	120
Cadmium	1	SW062820	29	SW062820	24	48.1590	1U	50	96		80	120
Calcium	1	SW062820	29	SW062820	24	54236.8810	47172.1880	5000	141	b	80	120
Chromium	1	SW062820	29	SW062820	24	50.0990	1U	50	100		80	120
Cobalt	1	SW062820	29	SW062820	24	48.8610	1U	50	98		80	120
Copper	1	SW062820	29	SW062820	24	50.4410	5U	50	101		80	120
Iron	1	SW062820	29	SW062820	24	5142.2330	150U	5000	103		80	120
Lead	1	SW062820	29	SW062820	24	47.3050	1.5U	50	95		80	120
Magnesium	1	SW062820	29	SW062820	24	13457.1900	8107.6790	5000	107		80	120
Manganese	1	SW062820	29	SW062820	24	238.7090	181.9170	50	114		80	120
Nickel	1	SW062820	29	SW062820	24	49.7880	1.5U	50	100		80	120
Potassium	1	SW062820	29	SW062820	24	6239.6910	1273.3220	5000	99		80	120
Selenium	1	SW062820	29	SW062820	24	239.7950	5U	250	96		80	120
Silver	1	SW062820	29	SW062820	24	45.3770	0.5U	50	91		80	120
Sodium	1	SW062920	29	SW062920	24	78296.5040	74523.4170	5000	75	b	80	120
Thallium	1	SW062820	29	SW062820	24	50.6810	1U	50	101		80	120
Vanadium	1	SW062920	29	SW062920	24	49.5210	1U	50	99		80	120
Zinc	1	SW062820	29	SW062820	24	54.8870	10U	50	110		80	120

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 107918

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCS Matrix: AQUEOUS SampleID: LCS 107918

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Mercury	107918	1	H29906S	11	9.6550	10	97		80	120

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCS MR 107918

Analyte	BatchId	DF	Data File	Seq#:	Spk Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Mercury	107918	1	H29906S	12	10.9500	10	110		80	120

TxtQcType: MS Matrix: AQUEOUS SampleID: AD38798-004

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Mercury	107918	1	H29906S	15	H29906S	13	9.7820	0.50U	10	98		75	125

TxtQcType: MSD Matrix: AQUEOUS SampleID: AD38798-005

Analyte	BatchId	DF	Data File	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Added	Recov	Qual	Lo Lim	Hi Lim
Mercury	107918	1	H29906S	16	H29906S	13	10.0300	0.50U	10	100		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 107918

Instrument Type: ICPMS

Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCS MR 107918

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Aluminum	107918	SW062820	23	SW062820	22	2426.4400	2318.8660	4.5	20
Antimony	107918	SW062820	23	SW062820	22	230.8780	222.5800	3.7	20
Arsenic	107918	SW062820	23	SW062820	22	239.6430	230.4280	3.9	20
Barium	107918	SW062820	23	SW062820	22	227.2880	214.9810	5.6	20
Beryllium	107918	SW062820	23	SW062820	22	239.3250	230.9610	3.6	20
Cadmium	107918	SW062820	23	SW062820	22	228.8660	223.2870	2.5	20
Calcium	107918	SW062820	23	SW062820	22	23500.8460	22340.6220	5.1	20
Chromium	107918	SW062820	23	SW062820	22	255.3070	244.4270	4.4	20
Cobalt	107918	SW062820	23	SW062820	22	243.5920	232.2130	4.8	20
Copper	107918	SW062820	23	SW062820	22	237.3590	227.3210	4.3	20
Iron	107918	SW062820	23	SW062820	22	2493.7150	2364.9020	5.3	20
Lead	107918	SW062820	23	SW062820	22	236.4420	222.9280	5.9	20
Magnesium	107918	SW062820	23	SW062820	22	24179.8310	22971.3520	5.1	20
Manganese	107918	SW062820	23	SW062820	22	238.5500	228.5650	4.3	20
Nickel	107918	SW062820	23	SW062820	22	238.5480	227.6860	4.7	20
Potassium	107918	SW062820	23	SW062820	22	23542.0770	22284.5680	5.5	20
Selenium	107918	SW062820	23	SW062820	22	238.3560	226.8720	4.9	20
Silver	107918	SW062820	23	SW062820	22	41.9630	40.8400	2.7	20
Sodium	107918	SW062920	23	SW062920	22	23431.4590	22277.8030	5	20
Thallium	107918	SW062820	23	SW062820	22	229.0830	221.4100	3.4	20
Vanadium	107918	SW062920	23	SW062920	22	243.0210	233.8000	3.9	20
Zinc	107918	SW062820	23	SW062820	22	239.6220	228.6880	4.7	20

TxtQcType: MR Matrix: AQUEOUS SampleID: AD38798-002

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Aluminum	107918	SW062820	25	SW062820	24	100U	100U	---	20
Antimony	107918	SW062820	25	SW062820	24	1.5U	1.5U	---	20
Arsenic	107918	SW062820	25	SW062820	24	1U	1U	---	20
Barium	107918	SW062820	25	SW062820	24	33.1550	32.8200	1	20
Beryllium	107918	SW062820	25	SW062820	24	0.5U	0.5U	---	20
Cadmium	107918	SW062820	25	SW062820	24	1U	1U	---	20
Calcium	107918	SW062820	25	SW062820	24	53053.7460	47172.1880	12	20
Chromium	107918	SW062820	25	SW062820	24	1U	1U	---	20
Cobalt	107918	SW062820	25	SW062820	24	1U	1U	---	20
Copper	107918	SW062820	25	SW062820	24	5U	5U	---	20
Iron	107918	SW062820	25	SW062820	24	151.9200	150U	---	20
Lead	107918	SW062820	25	SW062820	24	1.5U	1.5U	---	20
Magnesium	107918	SW062820	25	SW062820	24	9007.8500	8107.6790	11	20
Manganese	107918	SW062820	25	SW062820	24	201.7920	181.9170	10	20
Nickel	107918	SW062820	25	SW062820	24	1.5U	1.5U	---	20
Potassium	107918	SW062820	25	SW062820	24	1409.8550	1273.3220	10	20
Selenium	107918	SW062820	25	SW062820	24	5U	5U	---	20
Silver	107918	SW062820	25	SW062820	24	0.5U	0.5U	---	20
Sodium	107918	SW062920	25	SW062920	24	77685.8600	74523.4170	4.2	20
Thallium	107918	SW062820	25	SW062820	24	1U	1U	---	20
Vanadium	107918	SW062920	25	SW062920	24	1U	1U	---	20
Zinc	107918	SW062820	25	SW062820	24	10U	10U	---	20

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 107918

Instrument Type: ICPMS

Analytical Method(s):6020B/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: MSD | Matrix: AQUEOUS | SampleID: AD38798-005

Analyte	BatchId	Data File	Seq#:	MS File	Seq#	Result 1	Result 2	RPD	Limit
Aluminum	107918	SW062820	28	SW062820	27	2418.5840	2673.2880	10	20
Antimony	107918	SW062820	28	SW062820	27	249.0310	234.8860	5.8	20
Arsenic	107918	SW062820	28	SW062820	27	240.7220	267.8530	11	20
Barium	107918	SW062820	28	SW062820	27	274.0750	263.1000	4.1	20
Beryllium	107918	SW062820	28	SW062820	27	253.3750	241.6520	4.7	20
Cadmium	107918	SW062820	28	SW062820	27	245.5750	231.7170	5.8	20
Calcium	107918	SW062820	28	SW062820	27	77666.9250	82216.9620	5.7	20
Chromium	107918	SW062820	28	SW062820	27	255.6730	281.7510	9.7	20
Cobalt	107918	SW062820	28	SW062820	27	241.3630	268.0630	10	20
Copper	107918	SW062820	28	SW062820	27	234.3880	264.0340	12	20
Iron	107918	SW062820	28	SW062820	27	2583.8190	2858.7420	10	20
Lead	107918	SW062820	28	SW062820	27	242.3160	232.0350	4.3	20
Magnesium	107918	SW062820	28	SW062820	27	32994.6070	35801.3330	8.2	20
Manganese	107918	SW062820	28	SW062820	27	445.9580	494.0900	10	20
Nickel	107918	SW062820	28	SW062820	27	233.6810	259.2700	10	20
Potassium	107918	SW062820	28	SW062820	27	24724.1460	27227.4860	9.6	20
Selenium	107918	SW062820	28	SW062820	27	233.2770	258.5310	10	20
Silver	107918	SW062820	28	SW062820	27	44.3250	41.9900	5.4	20
Sodium	107918	SW062920	28	SW062920	27	102228.9920	101501.3530	.71	20
Thallium	107918	SW062820	28	SW062820	27	235.5700	228.6030	3	20
Vanadium	107918	SW062920	28	SW062920	27	247.3890	252.3630	2	20
Zinc	107918	SW062820	28	SW062820	27	234.3560	257.2070	9.3	20

TxtQcType: SD | Matrix: AQUEOUS | SampleID: AD38798-002

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Aluminum	107918	SW062820	26	SW062820	24	5	1.8510	6.9150	34	c	10
Antimony	107918	SW062820	26	SW062820	24	5	0.1320	0.6890	4.2		10
Arsenic	107918	SW062820	26	SW062820	24	5	0.1920	0.6950	38	a	10
Barium	107918	SW062820	26	SW062820	24	5	7.1160	32.8200	8.4		10
Beryllium	107918	SW062820	26	SW062820	24	5	0.0220	0.0510	116	c	10
Cadmium	107918	SW062820	26	SW062820	24	5	-0.0050	-0.0020	---		10
Calcium	107918	SW062820	26	SW062820	24	5	10826.8430	47172.1880	15	a	10
Chromium	107918	SW062820	26	SW062820	24	5	0.0480	0.2450	2		10
Cobalt	107918	SW062820	26	SW062820	24	5	0.0850	0.3510	21	a	10
Copper	107918	SW062820	26	SW062820	24	5	0.2750	0.5740	140	c	10
Iron	107918	SW062820	26	SW062820	24	5	30.3590	134.8790	13	a	10
Lead	107918	SW062820	26	SW062820	24	5	-0.0030	0.0940	---		10
Magnesium	107918	SW062820	26	SW062820	24	5	1894.5480	8107.6790	17	a	10
Manganese	107918	SW062820	26	SW062820	24	5	42.4090	181.9170	17	a	10
Nickel	107918	SW062820	26	SW062820	24	5	0.1040	0.3950	32	c	10
Potassium	107918	SW062820	26	SW062820	24	5	296.6610	1273.3220	16	a	10
Selenium	107918	SW062820	26	SW062820	24	5	0.0170	0.3850	---		10
Silver	107918	SW062820	26	SW062820	24	5	-0.0160	0.0880	---		10
Sodium	107918	SW062920	26	SW062920	24	5	15739.2530	74523.4170	5.6		10
Thallium	107918	SW062820	26	SW062820	24	5	0.0140	0.3720	81	c	10
Vanadium	107918	SW062920	26	SW062920	24	5	0.0880	0.5330	17	a	10
Zinc	107918	SW062820	26	SW062820	24	5	6.6050	2.9920	1000	c	10

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 107918

Instrument Type: ICP/HG

Analytical Method(s):6010D/200.7/7470A/7471B/245.1

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCS MR 107918

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Mercury	107918	H29906S	12	H29906S	11	10.9500	9.6550	13	20

TxtQcType: MR Matrix: AQUEOUS SampleID: AD38798-002

Analyte	BatchId	Data File	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Mercury	107918	H29906S	14	H29906S	13	0.50U	0.50U	---	20

TxtQcType: MSD Matrix: AQUEOUS SampleID: AD38798-005

Analyte	BatchId	Data File	Seq#:	MS File	Seq#	Result 1	Result 2	RPD	Limit
Mercury	107918	H29906S	16	H29906S	15	10.0300	9.7820	2.5	20

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

Metal Data
Verification of Instrument Parameters

MDL/RL
Method 6020/6020A
Combined 2022
Aqueous

ELEMENT	MDL (ug/L)	Reporting Limits (ug/L)
Al	22.6090	200
Sb	0.4358	3
As	0.2220	2
Ba	1.5891	5
Be	0.3048	1
Cd	0.1779	2
Ca	115.8378	500
Cr	0.5097	2
Co	0.1703	2
Cu	3.9646	10
Fe	41.1697	300
Pb	0.5266	3
Mg	16.4825	500
Mn	1.5658	6
Mo	0.1839	2
Ni	0.4811	3
K	41.2014	500
Se	0.5123	10
Ag	0.1538	1
Na	73.1686	500
Tl	0.2888	2
V	0.5381	2
Zn	7.9045	20

MDL/RL 2022 SUMMARY SHEET HgCV3 & HgCV4

Element: *Mercury*
Instrument: *PE FIMS 100*
Technique: *CV*

Instrument ID: HgCV3 & 4
Analyst: Jazmine Leary

200 Series	METHOD	MDL	RL	COMPLETED
		ppb	*ppb*	
H20	**245.1**	0.157	0.20	12/30/2022

SW846	METHOD	MDL	RL	COMPLETED
		ppb	*ppb*	
H2O	**7470A**	0.098	0.50	12/30/2022
SOIL	**7471 B**	0.119	0.50	12/30/2022
			0.0833 mg/kg	
		0.0198 mg/kg		

completed 12/30/2022
24 months data from 01/2021 to 12/2022

Metal Data
Raw Data

Form1

Inorganic Analysis Data Sheet

Sample ID: MB 107918 % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 107918 Units: UG/L Lab Code:
Matrix: AQUEOUS
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	100	ND	1	50	100	06/28/23	107918	V06282023A	21	MS	IS4_7800SWA
7440-36-0	Antimony	1.5	ND	1	50	100	06/28/23	107918	V06282023A	21	MS	IS4_7800SWA
7440-38-2	Arsenic	1.0	ND	1	50	100	06/28/23	107918	V06282023A	21	MS	IS4_7800SWA
7440-39-3	Barium	2.5	ND	1	50	100	06/28/23	107918	V06282023A	21	MS	IS4_7800SWA
7440-41-7	Beryllium	0.50	ND	1	50	100	06/28/23	107918	V06282023A	21	MS	IS4_7800SWA
7440-43-9	Cadmium	1.0	ND	1	50	100	06/28/23	107918	V06282023A	21	MS	IS4_7800SWA
7440-70-2	Calcium	250	ND	1	50	100	06/28/23	107918	V06282023A	21	MS	IS4_7800SWA
7440-47-3	Chromium	1.0	ND	1	50	100	06/28/23	107918	V06282023A	21	MS	IS4_7800SWA
7440-48-4	Cobalt	1.0	ND	1	50	100	06/28/23	107918	V06282023A	21	MS	IS4_7800SWA
7440-50-8	Copper	5.0	ND	1	50	100	06/28/23	107918	V06282023A	21	MS	IS4_7800SWA
7439-89-6	Iron	150	ND	1	50	100	06/28/23	107918	V06282023A	21	MS	IS4_7800SWA
7439-92-1	Lead	1.5	ND	1	50	100	06/28/23	107918	V06282023A	21	MS	IS4_7800SWA
7439-95-4	Magnesium	250	ND	1	50	100	06/28/23	107918	V06282023A	21	MS	IS4_7800SWA
7439-96-5	Manganese	3.0	ND	1	50	100	06/28/23	107918	V06282023A	21	MS	IS4_7800SWA
7440-02-0	Nickel	1.5	ND	1	50	100	06/28/23	107918	V06282023A	21	MS	IS4_7800SWA
7440-09-7	Potassium	250	ND	1	50	100	06/28/23	107918	V06282023A	21	MS	IS4_7800SWA
7782-49-2	Selenium	5.0	ND	1	50	100	06/28/23	107918	V06282023A	21	MS	IS4_7800SWA
7440-22-4	Silver	0.50	ND	1	50	100	06/28/23	107918	V06282023A	21	MS	IS4_7800SWA
7440-23-5	Sodium	250	ND	1	50	100	06/29/23	107918	V06292023A	21	MS	IS4_7800SWA
7440-28-0	Thallium	1.0	ND	1	50	100	06/28/23	107918	V06282023A	21	MS	IS4_7800SWA
7440-62-2	Vanadium	1.0	ND	1	50	100	06/29/23	107918	V06292023A	21	MS	IS4_7800SWA
7440-66-6	Zinc	10	ND	1	50	100	06/28/23	107918	V06282023A	21	MS	IS4_7800SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

Sample ID: MB 107918 (1) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 107918 (1) Units: UG/L Lab Code:
Matrix: AQUEOUS
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.50	ND	1	25	25	06/30/23	107918	H29906SW	10	CV	HGCV3A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\MS4_7800SWA\SW06292023A.txt

Analysis Date: 06/29/23 **Instrument:** MS4_7800SWA

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
Rinse	1	NA	09:50	1		AQUEO	AQUEO	SW846	107918		()
Rinse	1	NA	09:53	2		AQUEO	AQUEO	SW846	107918		()
Cal Blk V-397981	1	ISBLK	09:57	3		SOIL	SOIL				V-397981(Cal Blk WARNING)
Cal 1 V-397982	1	CAL	10:01	4							V-397982(Cal Std-1 WARNING)
Cal 2 V-397983	1	CAL	10:05	5							V-397983(Cal Std-2 WARNING)
Cal 3 V-397984	1	CAL	10:09	6							V-397984(Cal Std-3 WARNING)
Cal 4 V-397985	1	CAL	10:12	7							V-397985(Cal Std-4 WARNING)
Cal 5 V-397986	1	CAL	10:16	8							V-397986(Cal Std-5 WARNING)
ICV V-397987	1	ICV	10:20	9							V-397987(ICV WARNING)
LLICV V-397992	1	LLICV	10:23	10		AQUEO	AQUEO	SW846	107918		V-397992(LL-ICV/CCV SOIL WARNING)
ICB V-397988	1	ICB	10:27	11							V-397988(ICB/CCB WARNING)
ICSA V-397989	1	ICSA	10:31	12							V-397989(ICSA WARNING)
Rinse	1	NA	10:34	13		AQUEO	AQUEO	SW846	107918		()
LRS V-397990	1	LRS	10:38	14		AQUEO	AQUEO	SW846	107918		V-397990(LRS WARNING)
Rinse	1	NA	10:41	15		AQUEO	AQUEO	SW846	107918		()
Rinse	1	NA	10:45	16		AQUEO	AQUEO	SW846	107918		()
Rinse	1	NA	10:49	17		AQUEO	AQUEO	SW846	107918		()
Rinse	1	NA	10:52	18		AQUEO	AQUEO	SW846	107918		()
CCV V-397991	1	CCV	10:56	19							V-397991(CCV WARNING)
CCB V-397988	1	CCB	10:59	20							V-397988(ICB/CCB WARNING)
MB 107918	1	MB	11:03	21		AQUEO	AQUEO	SW846	107918	Report Na, V	()
LCS 107918	1	LCS	11:07	22		AQUEO	AQUEO	SW846	107918	Report Na, V	()
LCS MR 107918	1	LCS	11:10	23		AQUEO	AQUEO	SW846	107918	Report Na, V	()
AD38798-002	1	SMP	11:14	24	MET-TAL6020W	AQUEO	AQUEO	SW846	107918	Report Na, V	()
AD38798-002	1	MR	11:17	25	MET-TAL6020W	AQUEO	AQUEO	SW846	107918	Report Na, V	()
AD38798-002	5	SD	11:21	26	MET-TAL6020W	AQUEO	AQUEO	SW846	107918	Report Na, V	()
AD38798-004	1	MS	11:24	27	MET-TAL6020W	AQUEO	AQUEO	SW846	107918	Report Na, V	()
AD38798-005	1	MSD	11:28	28	MET-TAL6020W	AQUEO	AQUEO	SW846	107918	Report Na, V	()
AD38798-002	1	PS	11:31	29	MET-TAL6020W	AQUEO	AQUEO	SW846	107918	Report Na, V	()
Rinse	1	NA	11:35	30		AQUEO	AQUEO	SW846	107918		()
CCV V-397991	1	CCV	11:38	31							V-397991(CCV WARNING)
CCB V-397988	1	CCB	11:42	32							V-397988(ICB/CCB WARNING)
AD38798-006	1	SMP	11:46	33	MET-TAL6020W	AQUEO	AQUEO	SW846	107918	Report Na, V	()
AD38798-007	1	SMP	11:49	34	MET-TAL6020W	AQUEO	AQUEO	SW846	107918	Report Na, V	()
AD38796-001	1	SMP	11:53	35	MET-TAL6020W	AQUEO	AQUEO	SW846	107918	Report Na, V	()
Rinse	1	NA	11:57	36		AQUEO	AQUEO	SW846	107918		()
CCV V-397991	1	CCV	12:00	37							V-397991(CCV WARNING)
CCB V-397988	1	CCB	12:04	38							V-397988(ICB/CCB WARNING)

Comments/Reviewedby:

JLeary
192.168.1.19 6/29/2023 2:37:05 PM

Na and V reported.

6/30/23

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor: 2X 6/27/23

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\MS4_7800SWA\SW06282023A.txt

Analysis Date: 06/28/23 **Instrument:**MS4_7800SWA

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
Rinse	1	NA	15:15	1		AQUEO	AQUEO	SW846	107918		()
Rinse	1	NA	15:18	2		AQUEO	AQUEO	SW846	107918		()
Cal Blk V-397981	1	ISBLK	15:22	3		SOIL	SOIL				V-397981(Cal Blk WARNING)
Cal 1 V-397982	1	CAL	15:26	4							V-397982(Cal Std-1 WARNING)
Cal 2 V-397983	1	CAL	15:30	5							V-397983(Cal Std-2 WARNING)
Cal 3 V-397984	1	CAL	15:34	6							V-397984(Cal Std-3 WARNING)
Cal 4 V-397985	1	CAL	15:37	7							V-397985(Cal Std-4 WARNING)
Cal 5 V-397986	1	CAL	15:41	8							V-397986(Cal Std-5 WARNING)
ICV V-397987	1	ICV	15:45	9							V-397987(ICV WARNING)
LLICV V-397992	1	LLICV	15:48	10		AQUEO	AQUEO	SW846	107918		V-397992(LL-ICV/CCV SOIL WARNING)
ICB V-397988	1	ICB	15:52	11							V-397988(ICB/CCB WARNING)
ICSA V-397989	1	ICSA	15:56	12							V-397989(ICSA WARNING)
Rinse	1	NA	15:59	13		AQUEO	AQUEO	SW846	107918		0
LRS V-397990	1	LRS	16:03	14		AQUEO	AQUEO	SW846	107918		V-397990(LRS WARNING)
Rinse	1	NA	16:06	15		AQUEO	AQUEO	SW846	107918		0
Rinse	1	NA	16:10	16		AQUEO	AQUEO	SW846	107918		0
Rinse	1	NA	16:14	17		AQUEO	AQUEO	SW846	107918		0
Rinse	1	NA	16:17	18		AQUEO	AQUEO	SW846	107918		0
CCV V-397991	1	CCV	16:21	19							V-397991(CCV WARNING)
CCB V-397988	1	CCB	16:24	20							V-397988(ICB/CCB WARNING)
MB 107918	1	MB	16:28	21		AQUEO	AQUEO	SW846	107918		0
LCS 107918	1	LCS	16:32	22		AQUEO	AQUEO	SW846	107918		0
LCS MR 107918	1	LCS	16:35	23		AQUEO	AQUEO	SW846	107918		0
AD38798-002	1	SMP	16:39	24	MET-TAL6020W	AQUEO	AQUEO	SW846	107918		0
AD38798-002	1	MR	16:42	25	MET-TAL6020W	AQUEO	AQUEO	SW846	107918		0
AD38798-002	5	SD	16:46	26	MET-TAL6020W	AQUEO	AQUEO	SW846	107918		0
AD38798-004	1	MS	16:49	27	MET-TAL6020W	AQUEO	AQUEO	SW846	107918		0
AD38798-005	1	MSD	16:53	28	MET-TAL6020W	AQUEO	AQUEO	SW846	107918		0
AD38798-002	1	PS	16:56	29	MET-TAL6020W	AQUEO	AQUEO	SW846	107918		0
Rinse	1	NA	17:00	30		AQUEO	AQUEO	SW846	107918		0
CCV V-397991	1	CCV	17:03	31							V-397991(CCV WARNING)
CCB V-397988	1	CCB	17:07	32							V-397988(ICB/CCB WARNING)
AD38798-001	1	SMP	17:11	33	MET-PP6020W	AQUEO	AQUEO	SW846	107918		0
AD38798-003	1	SMP	17:14	34	MET-PP6020W	AQUEO	AQUEO	SW846	107918		0
AD38798-006	1	SMP	17:18	35	MET-TAL6020W	AQUEO	AQUEO	SW846	107918		0
AD38798-007	1	SMP	17:21	36	MET-TAL6020W	AQUEO	AQUEO	SW846	107918		0
AD38796-001	1	SMP	17:25	37	MET-TAL6020W	AQUEO	AQUEO	SW846	107918		0
Rinse	1	NA	17:29	38		AQUEO	AQUEO	SW846	107918		0
CCV V-397991	1	CCV	17:32	39							V-397991(CCV WARNING)
CCB V-397988	1	CCB	17:36	40							V-397988(ICB/CCB WARNING)

Comments/Reviewedby:

JLeary
192.168.1.19 6/29/2023 8:53:44 AM

Rerun Na (LLICV) and V (LRS). All other elements reported. Ag failed LRS. Ag LR=100 ppb.

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor: 24 6/27/23

Standard/Batch/SnCl2 Lot #:

6/30/23

ICPMS Internal Standard Summary Report

TuneID: 1

Batch/FileID: SW062820Sample ID: Cal Blk V-397981 Sample Date 06/28/23 Sample Time: 15:22

IS ID	Are	Area Limit		
Ho-1	1273021.59	891115.113	-	1654928.067
In-1	1116911.56	781838.092	-	1451985.028
Sc-1	897556.06	628289.242	-	1166822.878
Tb-1	1369618.88	958733.216	-	1780504.544

QcType	txtSamId:	Po	Ho-1 Area	In-1 Area	Sc-1 Area	Tb-1 Area	Area	Area	Area	Area
ISBLK	Cal Blk V-39798	3	1273021.	1116911.	897556.0	1369618.				
SMP	Rinse	1	1276626.	1096708.	863907.5	1346902.				
SMP	Rinse	2	1288907.	1115317.	881676.1	1349582.				
CAL	Cal 1 V-397982	4	1283744.	1108990.	876036.1	1353923.				
CAL	Cal 2 V-397983	5	1279795.	1128104.	894377.9	1367224.				
CAL	Cal 3 V-397984	6	1285121.	1130642.	916284.8	1384911.				
CAL	Cal 4 V-397985	7	1307629.	1109749.	902800.6	1374703.				
CAL	Cal 5 V-397986	8	1280361.	1082757.	886870.7	1355321.				
ICV	ICV V-397987	9	1252913.	1059410.	853933.9	1308889.				
LLICV	LLICV V-397992	10	1270629.	1089533.	848319.6	1349014.				
ICB	ICB V-397988	11	1269938.	1105985.	862728.4	1354303.				
ICSA	ICSA V-397989	12	1259096.	1019665.	852555.3	1321905.				
SMP	Rinse	13	1275723.	1102624.	844814.8	1339093.				
LRS	LRS V-397990	14	1248029.	998102.2	891366.9	1290064.				
SMP	Rinse	15	1261346.	1133380.	896699.0	1353208.				
SMP	Rinse	16	1260802.	1084492.	879018.8	1320860.				
SMP	Rinse	17	1278232.	1113860.	873466.4	1348956.				
SMP	Rinse	18	1272733.	1097346.	881440.3	1372906.				
CCV	CCV V-397991	19	1308515.	1118188.	903224.0	1388254.				
CCB	CCB V-397988	20	980199.1	841118.0	648766.8	1041226.				
MB	MB 107918	21	1294389.	1121663.	845750.4	1382524.				
LCS	LCS 107918	22	1298969.	1066405.	848191.7	1386507.				
MR	LCS MR 107918	23	1306359.	1091401.	854128.8	1397924.				
SMP	AD38798-002	24	1328325.	1096318.	879155.2	1377340.				
MR	AD38798-002	25	1320584.	1098556.	877553.5	1387704.				
SD	AD38798-002	26	1338734.	1167115.	922247.9	1408528.				
MS	AD38798-004	27	1298021.	1075152.	882443.0	1371033.				
MSD	AD38798-005	28	1237143.	996026.7	827622.5	1304304.				
PS	AD38798-002	29	1332933.	1091367.	903310.3	1411382.				
SMP	Rinse	30	1364460.	1172930.	928905.9	1422004.				
CCV	CCV V-397991	31	1363040.	1142633.	934217.6	1422574.				
CCB	CCB V-397988	32	1336277.	1166452.	910475.2	1418452.				
SMP	AD38798-001	33	1331427.	1105625.	902826.8	1426053.				
SMP	AD38798-003	34	1338130.	1116918.	905710.9	1428051.				
SMP	AD38798-006	35	1333354.	1097097.	864032.0	1387022.				
SMP	AD38798-007	36	1353128.	1145220.	884236.0	1409844.				
SMP	AD38796-001	37	1345327.	1099866.	903654.3	1420865.				
SMP	Rinse	38	1342705.	1175467.	914886.9	1421282.				
CCV	CCV V-397991	39	1358315.	1157020.	926223.2	1438960.				
CCB	CCB V-397988	40	1346946.	1136091.	896559.0	1409985.				

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 2

Batch/FileID: SW062820Sample ID: Cal Blk V-397981 Sample Date 06/28/23 Sample Time: 15:22

IS ID	Are	Area Limit		
Ho-2	825567.00	577896.9	-	1073237.1
In-2	320252.21	224176.547	-	416327.873
Sc-2	52348.19	36643.733	-	68052.647
Tb-2	858187.03	600730.921	-	1115643.139

QcType	txtSamId:	Po	Ho-2 Area	In-2 Area	Sc-2 Area	Tb-2 Area	Area	Area	Area	Area
ISBLK	Cal Blk V-39798	3	825567.0	320252.2	52348.19	858187.0				
SMP	Rinse	1	822961.1	321581.1	53297.17	847449.0				
SMP	Rinse	2	829255.0	320946.2	52899.11	855854.6				
CAL	Cal 1 V-397982	4	837424.0	321064.6	52879.00	857993.0				
CAL	Cal 2 V-397983	5	843172.5	321019.8	52598.98	869284.6				
CAL	Cal 3 V-397984	6	856914.7	329955.1	55379.35	901180.1				
CAL	Cal 4 V-397985	7	834254.3	314588.8	52183.03	858649.1				
CAL	Cal 5 V-397986	8	829205.7	309041.7	51409.10	847865.9				
ICV	ICV V-397987	9	826943.5	308940.8	50912.88	855079.7				
LLICV	LLICV V-397992	10	824148.6	313182.2	50635.32	856904.8				
ICB	ICB V-397988	11	827713.3	311894.5	50956.44	853223.2				
ICSA	ICSA V-397989	12	796737.4	279557.2	48930.43	815572.0				
SMP	Rinse	13	821048.5	312156.7	50174.69	845351.7				
LRS	LRS V-397990	14	779358.8	284634.1	52919.26	799287.9				
SMP	Rinse	15	837386.6	322086.8	52516.51	863008.5				
SMP	Rinse	16	823333.4	317239.8	51519.61	845092.6				
SMP	Rinse	17	826971.0	318988.8	51347.80	853795.6				
SMP	Rinse	18	834163.6	322797.8	51286.42	861589.2				
CCV	CCV V-397991	19	834812.7	309369.3	51826.24	868192.4				
CCB	CCB V-397988	20	830408.9	311580.7	50547.08	859492.6				
MB	MB 107918	21	829569.9	303663.3	50464.69	856558.1				
LCS	LCS 107918	22	819035.3	286388.7	48050.73	841745.0				
MR	LCS MR 107918	23	822259.7	288027.7	47892.34	846204.8				
SMP	AD38798-002	24	894430.3	315081.4	52053.51	929170.5				
MR	AD38798-002	25	837165.5	293456.2	48798.81	859382.9				
SD	AD38798-002	26	866256.7	318000.4	52062.65	891423.0				
MS	AD38798-004	27	769848.4	266291.1	46528.00	788800.0				
MSD	AD38798-005	28	825745.5	284027.6	48337.28	849396.5				
PS	AD38798-002	29	834001.5	288745.7	48333.88	861603.3				
SMP	Rinse	30	878898.3	335790.9	54514.07	905029.2				
CCV	CCV V-397991	31	859519.9	317626.0	52557.83	891249.0				
CCB	CCB V-397988	32	788315.8	292529.5	47636.82	807652.6				
SMP	AD38798-001	33	821509.1	288010.5	47463.84	848361.2				
SMP	AD38798-003	34	838568.6	295144.6	48672.79	861233.4				
SMP	AD38798-006	35	839391.6	291563.1	48411.95	855547.2				
SMP	AD38798-007	36	875306.6	314306.2	51232.16	897151.4				
SMP	AD38796-001	37	860078.2	293686.0	48163.22	889113.0				
SMP	Rinse	38	870886.1	328393.9	53697.75	898230.5				
CCV	CCV V-397991	39	861164.3	312943.1	52160.85	889844.5				
CCB	CCB V-397988	40	858740.3	317237.3	51607.60	893505.3				

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 1

Batch/FileID: SW062920 Sample ID: Cal Blk V-397981 Sample Date 06/29/23 Sample Time: 09:57

IS ID	Are	Area Limit		
Ho-1	1252276.10	876593.27	-	1627958.93
In-1	1063443.37	744410.359	-	1382476.381
Sc-1	862253.68	603577.576	-	1120929.784
Tb-1	1326055.34	928238.738	-	1723871.942

QcType	txtSamId:	Po	Ho-1 Area	In-1 Area	Sc-1 Area	Tb-1 Area	Area	Area	Area	Area
ISBLK	Cal Blk V-39798	3	1252276.	1063443.	862253.6	1326055.				
SMP	Rinse	1	1277349.	1083475.	873397.1	1333514.				
SMP	Rinse	2	1253492.	1072515.	853430.3	1328832.				
CAL	Cal 1 V-397982	4	1266927.	1080156.	860601.7	1309480.				
CAL	Cal 2 V-397983	5	1257329.	1075979.	865672.3	1307786.				
CAL	Cal 3 V-397984	6	1255082.	1073390.	898934.1	1345442.				
CAL	Cal 4 V-397985	7	1260415.	1057485.	896010.5	1317231.				
CAL	Cal 5 V-397986	8	1237278.	1032311.	868144.8	1305587.				
ICV	ICV V-397987	9	1238806.	1051331.	862530.7	1285968.				
LLICV	LLICV V-397992	10	1231003.	1037789.	832721.3	1295061.				
ICB	ICB V-397988	11	1232420.	1038865.	833002.0	1292284.				
ICSA	ICSA V-397989	12	1222812.	972436.9	858464.2	1281509.				
SMP	Rinse	13	1213108.	1039218.	808652.9	1295880.				
LRS	LRS V-397990	14	1191474.	955122.3	856292.5	1251372.				
SMP	Rinse	15	1236316.	1048913.	857495.0	1253030.				
SMP	Rinse	16	1209708.	1023568.	835424.0	1254663.				
SMP	Rinse	17	1209356.	1013016.	832621.0	1266107.				
SMP	Rinse	18	1209587.	1035101.	835910.4	1276928.				
CCV	CCV V-397991	19	1248067.	1027320.	881699.1	1311352.				
CCB	CCB V-397988	20	1248117.	1033884.	836205.5	1307988.				
MB	MB 107918	21	1236020.	1041073.	806118.4	1278680.				
LCS	LCS 107918	22	1219130.	985585.6	790181.7	1261738.				
MR	LCS MR 107918	23	1245534.	1008450.	805370.2	1287945.				
SMP	AD38798-002	24	1214171.	994771.6	805717.9	1297124.				
MR	AD38798-002	25	1237424.	989590.1	814322.8	1274750.				
SD	AD38798-002	26	1257261.	1074509.	843407.4	1321336.				
MS	AD38798-004	27	1221934.	1001734.	812400.3	1258338.				
MSD	AD38798-005	28	1224264.	995235.1	820325.1	1283865.				
PS	AD38798-002	29	1239458.	996300.2	843802.8	1313421.				
SMP	Rinse	30	1255020.	1081668.	876860.7	1312920.				
CCV	CCV V-397991	31	1621822.	1376300.	1142782. *	1718858.				
CCB	CCB V-397988	32	1254538.	1067719.	825566.7	1319473.				
SMP	AD38798-006	33	1219444.	993342.2	809545.5	1279874.				
SMP	AD38798-007	34	1240110.	1043345.	817448.9	1322844.				
SMP	AD38796-001	35	1243887.	1003604.	820191.9	1277049.				
SMP	Rinse	36	1250413.	1071568.	848149.8	1341555.				
CCV	CCV V-397991	37	1259924.	1058848.	861538.1	1304961.				
CCB	CCB V-397988	38	1234732.	1055958.	827563.4	1294180.				

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 2

Batch/FileID: SW062920Z Sample ID: Cal Blk V-397981 Sample Date 06/29/23 Sample Time: 09:57

IS ID	Are	Area Limit		
Ho-2	786015.96	550211.172	-	1021820.748
In-2	294344.35	206041.045	-	382647.655
Sc-2	49835.65	34884.955	-	64786.345
Tb-2	810680.28	567476.196	-	1053884.364

QcType	txtSamId:	Po	Ho-2 Area	In-2 Area	Sc-2 Area	Tb-2 Area	Area	Area	Area	Area
ISBLK	Cal Blk V-39798	3	786015.9	294344.3	49835.65	810680.2				
SMP	Rinse	1	785469.0	303975.3	51234.04	815114.4				
SMP	Rinse	2	792098.9	305929.0	50299.65	818526.9				
CAL	Cal 1 V-397982	4	794238.3	296258.4	49980.70	821168.8				
CAL	Cal 2 V-397983	5	796839.3	299895.2	50254.97	823738.4				
CAL	Cal 3 V-397984	6	789463.3	296764.5	49204.75	816487.2				
CAL	Cal 4 V-397985	7	789063.2	292629.8	49472.27	814326.6				
CAL	Cal 5 V-397986	8	777984.1	285245.3	47727.36	801371.3				
ICV	ICV V-397987	9	786892.5	289528.4	47810.92	811038.8				
LLICV	LLICV V-397992	10	782359.8	289261.2	47933.59	809138.0				
ICB	ICB V-397988	11	771291.1	287507.9	47591.37	802336.2				
ICSA	ICSA V-397989	12	755187.5	260535.1	45312.72	771129.4				
SMP	Rinse	13	778175.6	290267.0	46419.79	806163.8				
LRS	LRS V-397990	14	733647.1	260434.0	49365.33	747625.8				
SMP	Rinse	15	786476.9	300451.6	48807.70	816463.7				
SMP	Rinse	16	779456.4	302274.9	49880.36	809416.6				
SMP	Rinse	17	796646.9	306607.1	49732.01	821852.1				
SMP	Rinse	18	778678.2	302062.0	49213.57	809834.9				
CCV	CCV V-397991	19	778195.4	284811.4	46941.45	805693.7				
CCB	CCB V-397988	20	787002.6	291673.3	46934.67	811114.2				
MB	MB 107918	21	768817.2	275193.4	44287.33	789876.7				
LCS	LCS 107918	22	756080.8	259751.5	42985.48	783726.9				
MR	LCS MR 107918	23	760183.5	261422.8	43510.41	780031.5				
SMP	AD38798-002	24	754118.2	258305.3	42126.28	776895.7				
MR	AD38798-002	25	756242.1	258289.4	42314.60	776133.3				
SD	AD38798-002	26	790097.9	288334.3	46884.51	814733.9				
MS	AD38798-004	27	743831.2	255970.2	43020.01	769370.8				
MSD	AD38798-005	28	751178.8	254351.9	43283.01	773779.1				
PS	AD38798-002	29	754979.1	258711.5	43441.29	778348.3				
SMP	Rinse	30	801810.0	304525.8	49577.08	829971.8				
CCV	CCV V-397991	31	816185.9	295141.5	49142.26	837250.1				
CCB	CCB V-397988	32	782085.3	287164.3	45547.96	805341.1				
SMP	AD38798-006	33	746846.2	258916.3	41922.23	765518.0				
SMP	AD38798-007	34	766533.0	271190.4	43776.79	791114.9				
SMP	AD38796-001	35	758300.4	255211.7	42072.77	775020.7				
SMP	Rinse	36	787788.3	297987.7	48929.22	814404.7				
CCV	CCV V-397991	37	771668.8	280447.4	46896.84	793894.7				
CCB	CCB V-397988	38	771848.5	283838.8	46202.27	797615.7				

* Indicates Internal Standard Area outside of limits

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\HGCV3A\H29906SW.txt

Analysis Date: 06/30/23 **Instrument** HGCV3A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-398268	1	CAL	07:48	1							V-398268(Hg AQ standard blk)
.5 PPB V-398269	1	CAL	07:50	2							V-398269(Hg AQ standard .5 ppb)
1 PPB V-398270	1	CAL	07:51	3							V-398270(Hg AQ standard 1 ppb)
2 PPB V-398271	1	CAL	07:52	4							V-398271(Hg AQ standard 2 ppb)
5 PPB V-398272	1	CAL	07:54	5							V-398272(Hg AQ standard 5 ppb)
10 PPB V-398273	1	CAL	07:55	6							V-398273(Hg AQ standard 10 ppb)
25 PPB V-398274	1	CAL	07:57	7							V-398274(Hg AQ standard 25 ppb)
ICV (2) V-398266	1	ICV	07:59	8							V-398266(Hg AQ ICV 20 ppb)
ICB V-398268	1	ICB	08:00	9							V-398268(Hg AQ standard blk)
MB 107918 (1)	1	MB	08:02	10	HG-W-7470	AQUEO	AQUEO	SW846	107918		0
LCS 107918	1	LCS	08:03	11	HG-W-7470	AQUEO	AQUEO	SW846	107918		0
LCS MR 107918	1	LCS	08:05	12	HG-W-7470	AQUEO	AQUEO	SW846	107918		0
AD38798-002	1	SMP	08:06	13	HG-W-7470	AQUEO	AQUEO	SW846	107918		0
AD38798-002	1	MR	08:08	14	HG-W-7470	AQUEO	AQUEO	SW846	107918		0
AD38798-004	1	MS	08:09	15	HG-W-7470	AQUEO	AQUEO	SW846	107918		0
AD38798-005	1	MSD	08:11	16	HG-W-7470	AQUEO	AQUEO	SW846	107918		0
AD38798-001	1	SMP	08:13	17	HG-W-7470	AQUEO	AQUEO	SW846	107918		0
AD38798-003	1	SMP	08:14	18	HG-W-7470	AQUEO	AQUEO	SW846	107918		0
AD38798-006	1	SMP	08:15	19	HG-W-7470	AQUEO	AQUEO	SW846	107918		0
CCV V-398267	1	CCV	08:17	20							V-398267(Hg AQ CCV 10 ppb)
CCB V-398268	1	CCB	08:18	21							V-398268(Hg AQ standard blk)
AD38798-007	1	SMP	08:20	22	HG-W-7470	AQUEO	AQUEO	SW846	107918		0
AD38796-001	1	SMP	08:21	23	HG-W-7470	AQUEO	AQUEO	SW846	107918		0
CCV V-398267	1	CCV	08:22	24							V-398267(Hg AQ CCV 10 ppb)
CCB V-398268	1	CCB	08:24	25							V-398268(Hg AQ standard blk)

Comments/Reviewedby:

JLeary
192.168.1.55 6/30/2023 12:33:06 PM

OK

e 6/30/23

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

V-398523

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14857

Description
Calibration 1

ApprovedBy: shiamala
ApproveDate: 10/14/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	XHCV-19-500	3-094AJ	07/30/22	07/30/23	Aliano, Carmela	2	500m	NEAT	NEAT

Veritech Control/Receipt Number: 14858

Description
CALIBRATION 2

ApprovedBy: shiamala
ApproveDate: 10/14/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	XHCV-20-500	3-095AJ	07/30/22	07/30/23	Aliano, Carmela	2	500m	NEAT	NEAT

Veritech Control/Receipt Number: 15243

Description
nitric acid

ApprovedBy: jean
ApproveDate: 05/05/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9606-03	23B0262006	04/28/23	01/12/28	Cajuste, Pierre	6	2.5L	neat	neat

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-396397

Prepared By: Cousineau, Paul
Description: 1:1 HCl WARNING
Prep Date: 5/31/2023
Expiration Date: 7/17/2023
Department: Metals
BatchNumber:
Concentration: Reagent reag
Final Volume: 1000 ml
ApprovedBy: shiamala
ApproveDate: 05/31/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14736	DI H2O	500 ml		
15244	Hydrochloric Acid	500 ml	Neat neat	

Veritech Lot Number: V-396455

Prepared By: Cousineau, Paul
Description: 6020 CALIBRATION STOCK
Prep Date: 6/1/2023
Expiration Date: 9/1/2023
Department: Metals
BatchNumber:
Concentration: VARIOUS pp
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 06/02/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14990	nitric acid	2 ml	neat neat	
15332	Aluminum	.725 ml	10000 ug/ml	72.5
15334	Calcium	2.5 ml	10000 ug/ml	250
15335	Iron	2.5 ml	10000 ug/ml	250
15331	Magnesium	2.5 ml	10000 ug/ml	250
15330	Potassium	2.5 ml	10000 ug/ml	250
15333	Sodium	2.5 ml	10000 ug/ml	250
15302	Selenium 1000ppm	1 ml	1000 mg/l	10
15216	6020 Cal Std.	12.5 ml	multi ug/ml	2.5

Veritech Lot Number: V-397171

Prepared By: Balashanthan, Shiamala
Description: B, Si, Ce INTERMEDIATE
Prep Date: 6/12/2023
Expiration Date: 9/11/2023
Department: Metals
BatchNumber:
Concentration: 100 ppm
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 06/20/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
15243	nitric acid	5 ml	neat neat	
15244	Hydrochloric Acid	5 ml	Neat neat	
15336	Boron	10 ml	1000 ug/ml	100 ppm
15058	Cerium	10 ml	1000 ppm	100 ppm
15337	Silicon	10 ml	1000 ug/ml	100 ppm

Veritech Lot Number: V-397981

Prepared By: Cousineau, Paul
Description: Cal Blk WARNING
Prep Date: 6/23/2023
Expiration Date: 6/30/2023
Department: Metals
BatchNumber: B-35011
Concentration: 0 ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 07/03/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14990	nitric acid	2.5 ml	neat neat	
14988	hydrochloric acid	.5 ml	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-397982

Prepared By: Cousineau, Paul | Department: Metals | ApprovedBy: shiamala
Description: Cal Std-1 WARNING | BatchNumber: B-35011 | ApproveDate: 07/03/23
Prep Date: 6/23/2023 | Concentration: various ppb | Checked: Yes
Expiration Date: 6/30/2023 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14990	nitric acid	2.5 ml	neat neat	
14988	hydrochloric acid	.5 ml	neat neat	
V-396455	6020 CALIBRATION STOCK	.02 ml	VARIOUS pp	

Veritech Lot Number: V-397983

Prepared By: Cousineau, Paul | Department: Metals | ApprovedBy: shiamala
Description: Cal Std-2 WARNING | BatchNumber: B-35011 | ApproveDate: 07/03/23
Prep Date: 6/23/2023 | Concentration: various ppb | Checked: Yes
Expiration Date: 6/30/2023 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14990	nitric acid	2.5 ml	neat neat	
V-396455	6020 CALIBRATION STOCK	.2 ml	VARIOUS pp	
14988	hydrochloric acid	.5 ml	neat neat	

Veritech Lot Number: V-397984

Prepared By: Cousineau, Paul | Department: Metals | ApprovedBy: shiamala
Description: Cal Std-3 WARNING | BatchNumber: B-35011 | ApproveDate: 07/03/23
Prep Date: 6/23/2023 | Concentration: various ppb | Checked: Yes
Expiration Date: 6/30/2023 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14990	nitric acid	2.5 ml	neat neat	
V-396455	6020 CALIBRATION STOCK	.4 ml	VARIOUS pp	
14988	hydrochloric acid	.5 ml	neat neat	

Veritech Lot Number: V-397985

Prepared By: Cousineau, Paul | Department: Metals | ApprovedBy: shiamala
Description: Cal Std-4 WARNING | BatchNumber: B-35011 | ApproveDate: 07/03/23
Prep Date: 6/23/2023 | Concentration: various ppb | Checked: Yes
Expiration Date: 6/30/2023 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14990	nitric acid	2.5 ml	neat neat	
V-396455	6020 CALIBRATION STOCK	2 ml	VARIOUS pp	
14988	hydrochloric acid	.5 ml	neat neat	

Veritech Lot Number: V-397986

Prepared By: Cousineau, Paul | Department: Metals | ApprovedBy: shiamala
Description: Cal Std-5 WARNING | BatchNumber: B-35011 | ApproveDate: 07/03/23
Prep Date: 6/23/2023 | Concentration: various ppb | Checked: Yes
Expiration Date: 6/30/2023 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14990	nitric acid	2.5 ml	neat neat	
V-396455	6020 CALIBRATION STOCK	4 ml	VARIOUS pp	
14988	hydrochloric acid	.5 ml	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-397987

Prepared By: Cousineau, Paul
Description: ICV WARNING
Prep Date: 6/23/2023
Expiration Date: 6/30/2023
Department: Metals
BatchNumber: B-35011
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 07/03/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14990	nitric acid	2.5 ml	neat neat	
14748	6020 ICV (Ag ONLY)	.1 ml	NEAT neat	
14747	6020 ICV	.1 ml	NEAT neat	
14988	hydrochloric acid	.5 ml	neat neat	

Veritech Lot Number: V-397988

Prepared By: Cousineau, Paul
Description: ICB/CCB WARNING
Prep Date: 6/23/2023
Expiration Date: 6/30/2023
Department: Metals
BatchNumber: B-35011
Concentration: 0 ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 07/03/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14990	nitric acid	2.5 ml	neat neat	
14988	hydrochloric acid	.5 ml	neat neat	

Veritech Lot Number: V-397989

Prepared By: Cousineau, Paul
Description: ICSA WARNING
Prep Date: 6/23/2023
Expiration Date: 6/30/2023
Department: Metals
BatchNumber: B-35011
Concentration: various ppb
Final Volume: 50 ml
ApprovedBy: shiamala
ApproveDate: 07/03/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14963	Interferents A	2.5 ml	multi mg/l	
14990	nitric acid	1.25 ml	neat neat	
14988	hydrochloric acid	.25 ml	neat neat	

Veritech Lot Number: V-397990

Prepared By: Cousineau, Paul
Description: LRS WARNING
Prep Date: 6/23/2023
Expiration Date: 6/30/2023
Department: Metals
BatchNumber: B-35011
Concentration: various ppb
Final Volume: 50 ml
ApprovedBy: shiamala
ApproveDate: 07/03/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14990	nitric acid	1.25 ml	neat neat	2.5 %
V-396455	6020 CALIBRATION STOCK	10 ml	VARIOUS pp	
14988	hydrochloric acid	.25 ml	neat neat	
15332	Aluminum	.75 ml	10000 ug/ml	
15330	Potassium	.75 ml	10000 ug/ml	
15333	Sodium	.75 ml	10000 ug/ml	
15334	Calcium	.75 ml	10000 ug/ml	
15331	Magnesium	.75 ml	10000 ug/ml	
15335	Iron	.75 ml	10000 ug/ml	
15306	Copper 1000ppm	.1 ml	1000 mg/l	
15307	Manganese 1000ppm	.1 ml	1000 mg/l	
15304	Lead 1000ppm	.1 ml	1000 mg/l	
15305	Barium 1000ppm	.1 ml	1000 mg/l	
15303	Zinc 1000ppm	.1 ml	1000 mg/l	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-397991

Prepared By: Cousineau, Paul	Department: Metals	ApprovedBy: shiamala
Description: CCV WARNING	BatchNumber: B-35011	ApproveDate: 07/03/23
Prep Date: 6/23/2023	Concentration: various ppb	Checked: Yes
Expiration Date: 6/30/2023	Final Volume: 100 ml	

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
14990	nitric acid	2.5 ml	neat neat	
V-396455	6020 CALIBRATION STOCK	2 ml	VARIOUS pp	
14988	hydrochloric acid	.5 ml	neat neat	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14736

Description
DI H2O

ApprovedBy: janee
ApproveDate: 08/01/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
EVOQUA	1	1	07/18/22	07/17/23	Trivedi, Beena	1			

Veritech Control/Receipt Number: 14747

Description
6020 ICV

ApprovedBy: carmela
ApproveDate: 07/25/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SCP SCIENCE	600-225-112	S220627007	07/25/22	07/30/23	Aliano, Carmela	1		NEAT	NEAT

Veritech Control/Receipt Number: 14748

Description
6020 ICV (Ag ONLY)

ApprovedBy: carmela
ApproveDate: 07/25/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SCP SCIENCE	600-225-113	S220627008	07/25/22	07/30/23	Aliano, Carmela	1		NEAT	NEAT

Veritech Control/Receipt Number: 14963

Description
Interferents A

ApprovedBy: shiamala
ApproveDate: 12/23/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
spex	CL-INT-A1	CL7-219-MYF	11/30/22	11/30/23	Cousineau, Paul	1	125ml	multi	Mg/l

Veritech Control/Receipt Number: 14988

Description
hydrochloric acid

ApprovedBy: jessica
ApproveDate: 04/29/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9539-05	22I2362001	12/15/22	03/28/24	Lopez, Jose	12	2.5L	neat	neat

Veritech Control/Receipt Number: 14990

Description
nitric acid

ApprovedBy: shiamala
ApproveDate: 12/23/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9606-03	22H2562003	12/15/22	07/13/27	Lopez, Jose	18	2.5L	neat	neat

Veritech Control/Receipt Number: 15058

Description
Cerium

ApprovedBy: shiamala
ApproveDate: 01/25/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLCE2-2X	26-111CEX	01/25/23	01/30/24	Balashanthan, Shi	2	500ml	1000	ppm

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15216

Description
6020 Cal Std.

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	CL-CAL-1	CL51-322CRY	04/19/23	04/30/24	Cousineau, Paul	1	125ml	multi	ug/ml

Veritech Control/Receipt Number: 15243

Description
nitric acid

ApprovedBy: jean
ApproveDate: 05/05/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9606-03	23B0262006	04/28/23	01/12/28	Cajuste, Pierre	6	2.5L	neat	neat

Veritech Control/Receipt Number: 15244

Description
Hydrochloric Acid

ApprovedBy: akmal
ApproveDate: 06/13/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J . T , BAKER	9539-05	23B1462010	04/28/23	08/17/24	Cajuste, Pierre	16	2.5 L	Neat	Neat

Veritech Control/Receipt Number: 15302

Description
Selenium 1000ppm

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLSE2-2Y	26-124SEY	05/30/23	05/30/24	Cousineau, Paul	1	125ml	1000	mg/l

Veritech Control/Receipt Number: 15303

Description
Zinc 1000ppm

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLZN2-2Y	27-22ZNY	05/30/23	05/30/24	Cousineau, Paul	1	125ml	1000	mg/l

Veritech Control/Receipt Number: 15304

Description
Lead 1000ppm

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLPB2-2Y	27-05PBY	05/30/23	05/30/24	Cousineau, Paul	1	125ml	1000	mg/l

Veritech Control/Receipt Number: 15305

Description
Barium 1000ppm

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLBA2-2Y	2725BAY	05/30/23	05/30/24	Cousineau, Paul	1	125 m	1000	mg/l

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15306

Description
Copper 1000ppm

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLCU2-2Y	2739CUY	05/30/23	05/30/24	Cousineau, Paul	1	125 m	1000	mg/l

Veritech Control/Receipt Number: 15307

Description
Manganese 1000ppm

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLMN2-2Y	26-157MNY	05/30/23	05/30/24	Cousineau, Paul	1	125 m	1000	mg/l

Veritech Control/Receipt Number: 15330

Description
Potassium

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLK2-3X	BB19-123KX	05/30/23	05/30/24	Cousineau, Paul	1	500ml	10000	ug/ml

Veritech Control/Receipt Number: 15331

Description
Magnesium

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLMG2-3X	AT19-143MGX	05/30/23	05/30/24	Cousineau, Paul	1	500ml	10000	ug/ml

Veritech Control/Receipt Number: 15332

Description
Aluminum

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLAL2-3X	AT19-140ALX	05/30/23	05/30/24	Cousineau, Paul	1	500ml	10000	ug/ml

Veritech Control/Receipt Number: 15333

Description
Sodium

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLNA2-3X	AW19-142NAX	05/30/23	05/30/24	Cousineau, Paul	1	500ml	10000	ug/ml

Veritech Control/Receipt Number: 15334

Description
Calcium

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLCA2-3X	BD19-108CAX	05/30/23	05/30/24	Cousineau, Paul	1	500ml	10000	ug/ml

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15335

Description
Iron

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLFE2-3X	AU19-70FEX	05/30/23	05/30/24	Cousineau, Paul	1	500ml	10000	ug/ml

Veritech Control/Receipt Number: 15336

Description
Boron

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLB9-2X	26-99BX	05/30/23	05/30/24	Cousineau, Paul	1	500ml	1000	ug/ml

Veritech Control/Receipt Number: 15337

Description
Silicon

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLS19-2X	26-171SIX	05/30/23	05/30/24	Cousineau, Paul	1	500ml	1000	ug/ml

Veritech Control/Receipt Number: 15340

Description
DI H2O

ApprovedBy: jessica
ApproveDate: 06/25/23
Checked: Yes

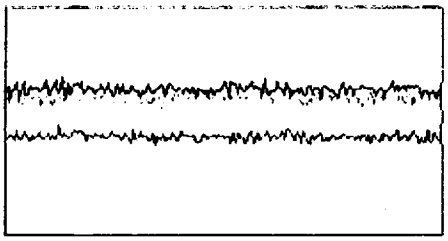
Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
EVOQUA	1	1	06/01/23	06/01/24	Cousineau, Paul	1			

Current Signal

Operator Name	UserMet
Acq. Date-Time	2023-06-28 09:33:43
Instrument Name	G8421A SG18313296
Batch Folder	D:\Agilent\ICPMH\1\DATA\T06282023A.b

[nogas]

Sensitivity



Ch	Mass	Range	Count	Avg Count	RSD%
1	7	5000	2048	2180	3.703
2	59	5000	3810	3967	2.795
3	89	10000	6291	6078	2.635
4	140	10000	5646	5669	2.801
5	205	5000	3199	3227	2.931
6	156/140	2	0.638 %	0.813 %	15.059
7	70/140	5	3.773 %	3.573 %	7.923

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	—	Nebulizer Gas	0.59 L/min	Dilution Gas	0.40 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.5 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Q1 Entrance	—	Cell Exit	-60 V
Extract 2	-209.0 V	Q1 Exit	—	Deflect	14.1 V
Omega Bias	-80 V	Cell Focus	—	Plate Bias	-36 V
Omega Lens	8.0 V	Cell Entrance	-40 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	—	Axial Acceleration	—
He Flow	0.0 mL/min	4th Gas Flow	—	OctP RF	200 V
H2 Flow	—	OctP Bias	-8.0 V	Energy Discrimination	4.5 V

QP Parameters

Mass Gain	124	Axis Gain	0.9990	QP Bias	-3.5 V
Mass Offset	124	Axis Offset	0.06		

Torch

Torch H	-0.2 mm	Torch V	0.3 mm		

EM

Discriminator	3.6 mV	Analog HV	2144 V	Pulse HV	1554 V

Meter

Current Signal

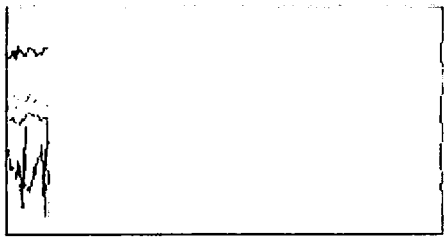
Name	Value	Unit
IF/BK Press	2.44E+2	Pa
Analyzer Press	1.47E-4	Pa
Water RF/WC/IF	1.16	L/min
Reflected Power	2	W
Forward Power	1554	W

Current Signal

Operator Name	UserMet
Acq. Date-Time	2023-06-28 09:34:24
Instrument Name	G8421A SG18313296
Batch Folder	D:\Agilent\ICPMH\1\DATA\T06282023A.b

[he]

Sensitivity



Ch	Mass	Range	Count	Avg Count	RSD%
1	59	2000	1205	1172	3.819
2	89	1000	865	909	4.995
3	140	5000	2590	2578	2.775
4	205	5000	2055	2007	3.102
5	156/140	1	0.077 %	0.286 %	40.536
6	51	50	43	36	14.800
7	56	10000	8109	8051	2.366
8	75	20	3	2	62.720
9	78	20	3	2	90.483

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.59 L/min	Dilution Gas	0.40 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.5 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Q1 Entrance	---	Cell Exit	-60 V
Extract 2	-209.0 V	Q1 Exit	---	Deflect	0.0 V
Omega Bias	-80 V	Cell Focus	---	Plate Bias	-60 V
Omega Lens	8.0 V	Cell Entrance	-40 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Axial Acceleration	---
He Flow	4.4 mL/min	4th Gas Flow	---	OctP RF	200 V
H2 Flow	---	OctP Bias	-18.0 V	Energy Discrimination	4.5 V

QP Parameters

Mass Gain	124	Axis Gain	0.9990	QP Bias	-13.5 V
Mass Offset	124	Axis Offset	0.07		

Torch

Torch H	-0.2 mm	Torch V	0.3 mm		

EM

Discriminator	3.6 mV	Analog HV	2144 V	Pulse HV	1554 V

Meter

Current Signal

Name	Value	Unit
IF/BK Press	2.44E+2	Pa
Analyzer Press	1.84E-4	Pa
Water RF/WC/IF	1.16	L/min
Reflected Power	0	W
Forward Power	1547	W

US EPA Tune Check Report

Operator Name	UserMet
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\T06282023A.b
Acq. Date-Time	2023-06-28 09:41:28
Report Comment	—
Instrument Name	G8421A SG18313296

[nogas]

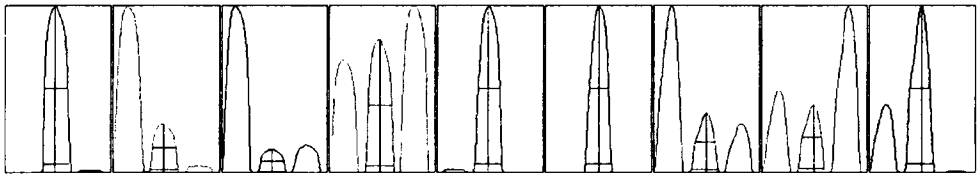
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	RSD%	RSD% (Required)	RSD% (Flag)
9		3104	31039.33	0.737	5.000	
24		13149	131488.44	0.450	5.000	
25		1737	17369.06	0.589	5.000	
26		2055	20547.90	0.781	5.000	
59		20716	207164.65	0.502	5.000	
115		24206	242055.70	1.229	5.000	
206		5086	50863.52	0.680	5.000	
207		4233	42327.45	0.522	5.000	
208		10537	105371.51	0.960	5.000	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	3106	3079	3084	3117	3134
24	13206	13086	13099	13139	13214
25	1748	1742	1732	1722	1740
26	2073	2051	2042	2070	2038
59	20676	20766	20552	20794	20793
115	23761	24073	24271	24423	24500
206	5088	5088	5058	5056	5142
207	4226	4214	4212	4256	4256
208	10533	10537	10378	10654	10584

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	4944.03	8.95	8.90 - 9.10	
24	20716.62	23.95	23.90 - 24.10	
25	2748.89	24.95	24.90 - 25.10	
26	3273.30	25.95	25.90 - 26.10	

US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
59	35945.64	58.95	58.90 - 59.10	
115	47290.23	115.05	114.90 - 115.10	
206	10009.95	206.00	205.90 - 206.10	
207	8316.14	207.00	206.90 - 207.10	
208	20482.48	208.00	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.66	0.785	0.850	
24	0.67	0.789	0.850	
25	0.66	0.781	0.850	
26	0.67	0.789	0.850	
59	0.60	0.770	0.850	
115	0.54	0.724	0.850	
206	0.55	0.753	0.850	
207	0.54	0.740	0.850	
208	0.55	0.776	0.850	

Integration Time [sec]	0.1
Acquisition Time [sec]	212.5
Y Axis	Linear

Tune Parameters

Plasma Parameters

Plasma Mode	—	Nebulizer Gas	0.59 L/min	Dilution Gas	0.40 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.5 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.0 V	Deflect	14.1 V
Extract 2	-209.0 V	Cell Entrance	-40 V	Plate Bias	-36 V
Omega Bias	-80 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	—	Energy Discrimination	4.5 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	—	OctP RF	200 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9990	QP Bias	-3.5 V
Mass Offset	124	Axis Offset	0.06		

Hardware Settings

Torch

Torch H	-0.2 mm	Torch V	0.3 mm

EM

Discriminator	3.6 mV	Analog HV	2144 V	Pulse HV	1554 V

Calibration Blank Report

Sample Name	Rinse
File Name	001CALB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 15:15:06
Sample Type	CalBlk
Total Dilution	1.0000
Comment	--
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

File : SW06282023A
Batch: 29906
QC: 107918

Rerun Na (LLICV) + V(LRS)
Ag failed LRS. Ag LR = 100ppb.
All other elements reported.
6/29/23 JL

QC Analyte Table

Name	Mass	ISTD	Tune	CPS	RSD
Be	9	165	nogas	50.00	34.6
Na	23	115	he	57008.67	1.2
Mg	24	115	he	1550.09	3.9
Al	27	115	he	654.47	2.4
K	39	115	he	33353.73	0.6
Ca	44	115	he	400.01	6.7
V	51	115	he	61.11	3.1
Cr	52	115	he	655.57	6.5
Mn	55	115	he	756.69	5.8
Fe	56	115	he	32102.36	0.7
Co	59	115	he	432.23	1.8
Ni	60	115	he	155.56	10.6
Cu	65	115	he	2100.19	8.7
Zn	66	115	he	740.02	2.7
As	75	115	he	10.67	92.5
Se	78	115	he	40.00	10.9
Mo	95	115	nogas	116.67	42.3
Ag	107	115	nogas	1570.13	8.8
Cd	111	115	nogas	23.33	89.2
Sb	121	115	nogas	243.34	13.2
Ba	137	159	nogas	323.35	28.7
Tl	205	165	nogas	1453.44	13.5
Pb	208	165	nogas	3096.87	9.1

6/30/23

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD
Sc	45	nogas	863907.57	0.6
Sc	45	he	53297.17	1.4
In	115	nogas	1096708.33	1.9
In	115	he	321581.14	0.8
Tb	159	nogas	1346902.11	0.4
Tb	159	he	847449.00	0.7
Ho	165	nogas	1276626.59	1.7
Ho	165	he	822961.10	0.5

Calibration Blank Report

Sample Name	Rinse
File Name	002CALB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 15:18:56
Sample Type	CalBlk
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMat

QC Analyte Table

Name	Mass	ISTD	Tune	CPS	RSD
Be	9	165	nogas	46.67	65.5
Na	23	115	he	41170.25	1.0
Mg	24	115	he	1488.97	6.1
Al	27	115	he	640.02	8.3
K	39	115	he	31859.17	2.0
Ca	44	115	he	384.45	13.3
V	51	115	he	81.11	34.5
Cr	52	115	he	648.91	7.7
Mn	55	115	he	741.13	6.4
Fe	56	115	he	34729.75	2.0
Co	59	115	he	231.12	3.0
Ni	60	115	he	150.00	8.9
Cu	65	115	he	2350.24	4.7
Zn	66	115	he	744.47	9.0
As	75	115	he	14.00	0.0
Se	78	115	he	44.33	6.5
Mo	95	115	nogas	106.67	37.9
Ag	107	115	nogas	1450.11	4.8
Cd	111	115	nogas	23.33	49.5
Sb	121	115	nogas	313.34	18.1
Ba	137	159	nogas	280.01	10.7
Tl	205	165	nogas	1373.43	11.8
Pb	208	165	nogas	3160.22	1.8

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD
Sc	45	nogas	881676.19	1.8
Sc	45	he	52899.11	0.6
In	115	nogas	1115317.37	2.5
In	115	he	320946.28	0.9
Tb	159	nogas	1349582.43	2.1
Tb	159	he	855854.60	0.8
Ho	165	nogas	1288907.30	3.0
Ho	165	he	829255.07	0.9

Calibration Blank Report

Sample Name	Cal Blk V-397981
File Name	003CALB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 15:22:43
Sample Type	CalBlk
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	CPS	RSD
Be	9	165	nogas	36.67	31.5
Na	23	115	he	31395.56	2.3
Mg	24	115	he	1006.71	11.2
Al	27	115	he	287.78	1.3
K	39	115	he	30361.44	1.8
Ca	44	115	he	190.01	3.0
V	51	115	he	287.78	12.7
Cr	52	115	he	734.47	5.4
Mn	55	115	he	231.12	11.6
Fe	56	115	he	18330.96	3.3
Co	59	115	he	55.55	12.5
Ni	60	115	he	68.89	19.6
Cu	65	115	he	433.35	21.8
Zn	66	115	he	398.90	13.0
As	75	115	he	15.33	15.1
Se	78	115	he	40.00	10.9
Mo	95	115	nogas	13.33	86.6
Ag	107	115	nogas	620.03	18.6
Cd	111	115	nogas	83.33	48.5
Sb	121	115	nogas	556.69	5.8
Ba	137	159	nogas	73.33	7.9
Tl	205	165	nogas	1290.09	11.4
Pb	208	165	nogas	2343.46	4.3

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD
Sc	45	nogas	897556.06	2.0
Sc	45	he	52348.19	0.8
In	115	nogas	1116911.56	1.5
In	115	he	320252.21	1.2
Tb	159	nogas	1369818.88	1.3
Tb	159	he	858187.03	0.6
Ho	165	nogas	1273021.59	3.0
Ho	165	he	825567.00	0.3

Calibration Standard Report

Sample Name	Cal 1 V-397982
File Name	004CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 15:26:31
Sample Type	CalStd
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	CPS	RSD
Be	9	165	nogas	2306.89	1.0
Na	23	115	he	88188.25	0.9
Mg	24	115	he	28330.35	1.0
Al	27	115	he	4046.15	1.2
Ca	44	115	he	1510.09	5.8
V	51	115	he	3270.40	3.5
Cr	52	115	he	4176.20	3.9
Mn	55	115	he	2409.11	2.1
Fe	56	115	he	343451.85	1.6
Co	59	115	he	6270.33	0.2
Ni	60	115	he	1730.12	2.3
Zn	66	115	he	1301.18	8.3
As	75	115	he	470.68	9.2
Se	78	115	he	171.67	9.4
Mo	95	115	nogas	3867.29	1.8
Ag	107	115	nogas	10103.94	2.4
Cd	111	115	nogas	1710.14	12.4
Sb	121	115	nogas	10290.81	2.9
Ba	137	159	nogas	3080.40	6.6
Tl	205	165	nogas	13100.29	4.0
Pb	208	165	nogas	20329.96	2.0

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	876036.11	2.6	897556.06	97.6	70	130	
Sc	45	he	52879.00	0.7	52348.19	101.01	70	130	
In	115	nogas	1108990.42	0.9	1116911.56	99.29	70	130	
In	115	he	321064.64	1.1	320252.21	100.25	70	130	
Tb	159	nogas	1353923.05	0.5	1369618.88	98.85	70	130	
Tb	159	he	857993.06	0.7	858187.03	99.98	70	130	
Ho	165	nogas	1283744.10	1.9	1273021.59	100.84	70	130	
Ho	165	he	837424.01	1.1	825567	101.44	70	130	

Calibration Standard Report

Sample Name	Cal 2 V-397983
File Name	005CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 15:30:18
Sample Type	CalStd
Total Dilution	1.0000
Comment	--
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	CPS	RSD
Be	9	165	nogas	22901.84	1.1
Na	23	115	he	562596.73	1.2
Mg	24	115	he	274125.57	1.1
Al	27	115	he	33555.05	2.4
Ca	44	115	he	13218.48	2.9
V	51	115	he	30215.85	2.2
Cr	52	115	he	36905.25	1.7
Mn	55	115	he	20546.24	3.7
Fe	56	115	he	3052806.34	2.1
Co	59	115	he	60251.94	1.6
Ni	60	115	he	16269.56	1.2
Zn	66	115	he	7460.93	0.6
As	75	115	he	4565.43	3.2
Se	78	115	he	1452.75	2.5
Mo	95	115	nogas	37311.56	1.9
Ag	107	115	nogas	97221.73	1.0
Cd	111	115	nogas	18623.08	2.3
Sb	121	115	nogas	76769.53	0.5
Ba	137	159	nogas	27769.53	2.5
Tl	205	165	nogas	122749.11	0.8
Pb	208	165	nogas	176945.73	1.5

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	894377.93	0.4	897556.06	99.65	70	130	
Sc	45	he	52598.98	1.2	52348.19	100.48	70	130	
In	115	nogas	1128104.88	1.0	1116911.56	101	70	130	
In	115	he	321019.88	1.3	320252.21	100.24	70	130	
Tb	159	nogas	1367224.82	0.7	1369618.88	99.83	70	130	
Tb	159	he	869284.62	1.0	858187.03	101.29	70	130	
Ho	165	nogas	1279795.94	1.7	1273021.59	100.53	70	130	
Ho	165	he	843172.52	1.0	825567	102.13	70	130	

Calibration Standard Report

Sample Name	Cal 3 V-397984
File Name	006CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 15:34:05
Sample Type	CalStd
Total Dilution	1.0000
Comment	--
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	CPS	RSD
Be	9	165	nogas	46712.90	2.1
Na	23	115	he	1096985.34	1.3
Mg	24	115	he	543028.31	0.8
Al	27	115	he	66206.01	0.8
Ca	44	115	he	25877.85	1.3
V	51	115	he	59838.32	1.2
Cr	52	115	he	72378.35	1.5
Mn	55	115	he	39781.06	1.3
Fe	56	115	he	5855202.27	1.4
Co	59	115	he	118866.20	0.8
Ni	60	115	he	32339.72	0.4
Zn	66	115	he	13210.78	0.2
As	75	115	he	9040.97	1.3
Se	78	115	he	2939.85	0.4
Mo	95	115	nogas	74661.19	1.2
Ag	107	115	nogas	195755.13	0.8
Cd	111	115	nogas	37241.85	2.3
Sb	121	115	nogas	148988.15	1.1
Ba	137	159	nogas	53461.21	0.8
Tl	205	165	nogas	254821.29	1.1
Pb	208	165	nogas	356187.16	2.1

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	916284.80	1.5	897556.06	102.09	70	130	
Sc	45	he	55379.35	6.1	52348.19	105.79	70	130	
In	115	nogas	1130642.95	2.5	1116911.56	101.23	70	130	
In	115	he	329955.12	8.1	320252.21	103.03	70	130	
Tb	159	nogas	1384911.65	0.8	1369618.88	101.12	70	130	
Tb	159	he	901180.14	9.0	858187.03	105.01	70	130	
Ho	165	nogas	1285121.54	1.2	1273021.59	100.95	70	130	
Ho	165	he	856914.79	7.5	825567	103.8	70	130	

Calibration Standard Report

Sample Name	Cal 4 V-397985
File Name	007CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 15:37:50
Sample Type	CalStd
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	CPS	RSD
Be	9	165	nogas	234450.79	2.2
Na	23	115	he	5215024.66	0.8
Mg	24	115	he	2744533.64	0.4
Al	27	115	he	325797.77	1.0
Ca	44	115	he	128327.59	2.2
V	51	115	he	295344.31	0.5
Cr	52	115	he	356768.76	1.2
Mn	55	115	he	195606.61	1.7
Fe	56	115	he	28979653.29	0.3
Co	59	115	he	585998.62	0.8
Ni	60	115	he	156546.67	0.5
Zn	66	115	he	64671.00	1.0
As	75	115	he	45339.49	0.6
Se	78	115	he	14192.63	1.0
Mo	95	115	nogas	370477.21	2.3
Ag	107	115	nogas	939835.72	1.8
Cd	111	115	nogas	181805.76	1.9
Sb	121	115	nogas	722042.12	1.5
Ba	137	159	nogas	265228.45	1.2
Tl	205	165	nogas	1300836.31	2.5
Pb	208	165	nogas	1730167.29	1.9

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	902800.61	1.2	897556.06	100.58	70	130	
Sc	45	he	52183.03	1.0	52348.19	99.68	70	130	
In	115	nogas	1109749.21	1.0	1116911.56	99.36	70	130	
In	115	he	314588.84	0.3	320252.21	98.23	70	130	
Tb	159	nogas	1374703.36	0.7	1369618.88	100.37	70	130	
Tb	159	he	858649.12	1.6	858187.03	100.05	70	130	
Ho	165	nogas	1307629.04	1.4	1273021.59	102.72	70	130	
Ho	165	he	834254.38	0.8	825567	101.05	70	130	

Calibration Standard Report

Sample Name	Cal 5 V-397986
File Name	008CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 15:41:34
Sample Type	CalStd
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	CPS	RSD
Be	9	165	nogas	466040.56	1.4
Na	23	115	he	10150178.49	1.3
Mg	24	115	he	5262686.46	1.8
Al	27	115	he	634078.81	0.2
Ca	44	115	he	244153.14	1.2
V	51	115	he	581145.90	1.2
Cr	52	115	he	695500.46	1.1
Mn	55	115	he	379542.03	0.7
Fe	56	115	he	56288563.32	1.1
Co	59	115	he	1162762.77	0.7
Ni	60	115	he	304089.81	0.4
Zn	66	115	he	124421.00	0.2
As	75	115	he	89118.17	0.8
Se	78	115	he	27809.80	0.9
Mo	95	115	nogas	736071.24	0.2
Ag	107	115	nogas	1892780.70	0.7
Cd	111	115	nogas	354876.76	1.1
Sb	121	115	nogas	1450742.95	1.2
Ba	137	159	nogas	519882.82	0.9
Tl	205	165	nogas	2546716.00	0.4
Pb	208	165	nogas	3425930.00	2.1

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	886870.79	1.0	897556.06	98.81	70	130	
Sc	45	he	51409.10	1.0	52348.19	98.21	70	130	
In	115	nogas	1082757.11	1.7	1116911.56	96.94	70	130	
In	115	he	309041.77	1.5	320252.21	96.5	70	130	
Tb	159	nogas	1355321.54	1.6	1369618.88	98.96	70	130	
Tb	159	he	847865.99	0.6	858187.03	98.8	70	130	
Ho	165	nogas	1280361.62	1.7	1273021.59	100.58	70	130	
Ho	165	he	829205.78	0.9	825567	100.44	70	130	

Initial Calibration Verification (ICV) Report

Sample Name	ICV V-397987
File Name	009_ICV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 15:45:14
Sample Type	ICV
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	ExpVal	% Rec	%Low	%High	QC Flag
Be	9	165	nogas	48.907	ppb	1.3	222419.03	50	97.81	90	110	
Na	23	115	he	4935.003	ppb	2.0	5029611.19	5000	98.7	90	110	
Mg	24	115	he	5094.512	ppb	1.6	2693448.50	5000	101.89	90	110	
Al	27	115	he	5260.356	ppb	2.5	1113312.14	5000	105.21	90	110	
K	39	115	he	5012.489	ppb	2.3	2410996.71	5000	100.25	90	110	
Ca	44	115	he	4860.096	ppb	1.2	119100.86	5000	97.2	90	110	
V	51	115	he	48.635	ppb	1.4	282551.62	50	97.27	90	110	
Cr	52	115	he	48.792	ppb	1.5	340043.87	50	97.58	90	110	
Mn	55	115	he	49.370	ppb	0.7	187890.52	50	98.74	90	110	
Fe	56	115	he	4988.457	ppb	0.6	28142259.99	5000	99.77	90	110	
Co	59	115	he	48.161	ppb	1.1	558591.77	50	96.32	90	110	
Ni	60	115	he	49.457	ppb	0.8	150728.59	50	98.91	90	110	
Cu	65	115	he	49.176	ppb	0.2	200176.73	50	98.35	90	110	
Zn	66	115	he	48.802	ppb	1.1	61120.66	50	97.6	90	110	
As	75	115	he	49.684	ppb	0.6	44249.94	50	99.37	90	110	
Se	78	115	he	50.704	ppb	2.9	2854.30	50	101.41	90	110	
Mo	95	115	nogas	48.483	ppb	1.9	347907.03	50	96.97	90	110	
Ag	107	115	nogas	9.913	ppb	0.5	182996.03	10	99.13	90	110	
Cd	111	115	nogas	49.383	ppb	1.7	171526.77	50	98.77	90	110	
Sb	121	115	nogas	48.363	ppb	0.4	682829.42	50	96.73	90	110	
Ba	137	159	nogas	49.058	ppb	2.0	246652.06	50	98.12	90	110	
Tl	205	165	nogas	48.397	ppb	0.6	1206660.89	50	96.79	90	110	
Pb	208	165	nogas	49.077	ppb	0.2	1643236.96	50	98.15	90	110	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	853933.92	3.0	897556.06	95.14	70	130	
Sc	45	he	50912.88	0.4	52348.19	97.26	70	130	
In	115	nogas	1059410.73	1.3	1116911.56	94.85	70	130	
In	115	he	308940.88	0.8	320252.21	96.47	70	130	
Tb	159	nogas	1308889.30	2.3	1369618.88	95.57	70	130	
Tb	159	he	855079.76	0.4	858187.03	99.64	70	130	
Ho	165	nogas	1252913.97	1.6	1273021.59	98.42	70	130	
Ho	165	he	826943.53	0.4	825567	100.17	70	130	

Sample Report

Sample Name	LLICV V-397992
File Name	010LICV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 15:48:48
Sample Type	Sample
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	0.471	ppb	4.8	2210.21	500	
Na	23	115	he	308.385	ppb	1.8	347441.38	200000	
Mg	24	115	he	242.160	ppb	1.5	130736.37	200000	
Al	27	115	he	100.764	ppb	2.8	21895.81	165000	
K	39	115	he	269.184	ppb	0.3	159354.18	200000	
Ca	44	115	he	258.959	ppb	4.5	6608.25	200000	
V	51	115	he	0.946	ppb	5.0	5845.69	500	
Cr	52	115	he	0.933	ppb	1.6	7298.61	500	
Mn	55	115	he	3.205	ppb	2.5	12578.82	2500	
Fe	56	115	he	151.777	ppb	2.2	885480.85	200000	
Co	59	115	he	0.950	ppb	1.0	11229.00	500	
Ni	60	115	he	1.655	ppb	2.6	5177.66	500	
Cu	65	115	he	5.884	ppb	2.9	24652.25	2500	
Zn	66	115	he	11.994	ppb	1.1	15523.18	2500	
As	75	115	he	0.937	ppb	6.9	860.03	500	
Se	78	115	he	4.726	ppb	9.6	305.00	2500	
Mo	95	115	nogas	0.933	ppb	4.7	6891.86	500	
Ag	107	115	nogas	0.465	ppb	3.1	9403.44	500	
Cd	111	115	nogas	0.924	ppb	3.2	3380.49	500	
Sb	121	115	nogas	1.608	ppb	2.5	23868.34	500	
Ba	137	159	nogas	2.426	ppb	3.0	12636.20	2500	
Tl	205	165	nogas	1.067	ppb	3.7	28224.95	500	
Pb	208	165	nogas	1.432	ppb	2.5	50894.17	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	848319.62	0.2	897556.06	94.51	70	130	
Sc	45	he	50635.32	1.1	52348.19	96.73	70	130	
In	115	nogas	1089533.01	2.6	1116911.56	97.55	70	130	
In	115	he	313182.20	1.0	320252.21	97.79	70	130	
Tb	159	nogas	1349014.56	2.6	1369618.88	98.5	70	130	
Tb	159	he	856904.84	0.4	858187.03	99.85	70	130	
Ho	165	nogas	1270629.20	2.5	1273021.59	99.81	70	130	
Ho	165	he	824148.63	0.8	825567	99.83	70	130	

Initial Calibration Blank (ICB) Report

Sample Name	ICB V-397988
File Name	011_ICB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 15:52:27
Sample Type	ICB
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	Limit	QC Flag
Be	9	165	nogas	0.009	ppb	48.6	80.00	0.5	
Na	23	115	he	15.062	ppb	7.2	45979.27	250	
Mg	24	115	he	0.884	ppb	9.2	1451.20	250	
Al	27	115	he	1.008	ppb	26.0	495.57	100	
K	39	115	he	9.323	ppb	14.3	34039.83	250	
Ca	44	115	he	11.882	ppb	18.9	481.12	250	
V	51	115	he	0.029	ppb	25.6	452.23	0.5	
Cr	52	115	he	0.014	ppb	70.3	815.58	1	
Mn	55	115	he	0.862	ppb	0.7	3531.58	3	
Fe	56	115	he	2.774	ppb	6.4	33638.28	150	
Co	59	115	he	0.001	ppb	93.1	70.00	1	
Ni	60	115	he	0.079	ppb	31.2	308.89	1.5	
Cu	65	115	he	0.566	ppb	13.6	2743.66	5	
Zn	66	115	he	1.733	ppb	12.3	2585.81	10	
As	75	115	he	0.012	ppb	72.8	26.00	0.5	
Se	78	115	he	-0.070	ppb	N/A	35.00	5	
Mo	95	115	nogas	0.016	ppb	29.0	130.00	0.5	
Ag	107	115	nogas	-0.003	ppb	N/A	563.36	0.5	
Cd	111	115	nogas	-0.009	ppb	N/A	50.00	1	
Sb	121	115	nogas	0.022	ppb	31.0	870.05	1.5	
Ba	137	159	nogas	0.020	ppb	29.4	176.67	2.5	
Tl	205	165	nogas	0.009	ppb	44.2	1500.11	1	
Pb	208	165	nogas	-0.020	ppb	N/A	1646.74	1.5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	862728.42	1.8	897556.06	96.12	70	130	
Sc	45	he	50956.44	2.0	52348.19	97.34	70	130	
In	115	nogas	1105985.58	2.0	1116911.56	99.02	70	130	
In	115	he	311894.57	0.3	320252.21	97.39	70	130	
Tb	159	nogas	1354303.16	1.6	1369618.88	98.88	70	130	
Tb	159	he	853223.26	1.2	858187.03	99.42	70	130	
Ho	165	nogas	1269938.13	1.3	1273021.59	99.76	70	130	
Ho	165	he	827713.30	1.0	825567	100.26	70	130	

Sample Report

Sample Name	ICSA V-397989
File Name	012SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 15:56:04
Sample Type	Sample
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Fail
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	0.028	ppb	16.0	166.67	500	
Na	23	115	he	123736.050	ppb	0.6	113461795.49	200000	
Mg	24	115	he	48939.409	ppb	1.8	23407464.63	200000	
Al	27	115	he	51965.363	ppb	1.2	9849209.88	165000	
K	39	115	he	49201.832	ppb	2.1	21182843.60	200000	
Ca	44	115	he	148007.125	ppb	1.9	3277172.23	200000	
V	51	115	he	0.005	ppb	183.3	275.56	500	
Cr	52	115	he	0.962	ppb	0.2	6696.07	500	
Mn	55	115	he	1.671	ppb	2.6	5951.30	2500	
Fe	56	115	he	123470.106	ppb	1.6	629960650.52	200000	
Co	59	115	he	1.098	ppb	0.2	11567.06	500	
Ni	60	115	he	1.371	ppb	0.9	3838.33	500	
Cu	65	115	he	1.350	ppb	0.9	5341.15	2500	
Zn	66	115	he	3.126	ppb	2.0	3868.34	2500	
As	75	115	he	0.215	ppb	4.0	186.67	500	
Se	78	115	he	0.148	ppb	53.0	42.33	2500	
Mo	95	115	nogas	963.232	ppb	2.3	6651315.94	500	>LDR
Ag	107	115	nogas	0.037	ppb	7.2	1223.41	500	
Cd	111	115	nogas	0.729	ppb	2.1	2513.60	500	
Sb	121	115	nogas	0.143	ppb	7.7	2453.60	500	
Ba	137	159	nogas	0.783	ppb	6.8	4044.03	2500	
Tl	205	165	nogas	-0.017	ppb	N/A	860.05	500	
Pb	208	165	nogas	0.995	ppb	2.2	35750.35	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	852555.35	0.1	897556.06	94.99	70	130	
Sc	45	he	48930.43	1.2	52346.19	93.47	70	130	
In	115	nogas	1019665.11	1.5	1116911.56	91.29	70	130	
In	115	he	279557.24	0.3	320252.21	87.29	70	130	
Tb	159	nogas	1321905.84	2.1	1369618.88	96.52	70	130	
Tb	159	he	815572.08	0.3	858187.03	95.03	70	130	
Ho	165	nogas	1259096.34	0.1	1273021.59	98.91	70	130	
Ho	165	he	796737.47	0.2	825567	96.51	70	130	

Sample Report

Sample Name	Rinse
File Name	013SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 15:59:41
Sample Type	Sample
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	0.004	ppb	30.6	56.67	500	
Na	23	115	he	11.376	ppb	9.3	42231.10	200000	
Mg	24	115	he	0.803	ppb	14.3	1408.97	200000	
Al	27	115	he	1.026	ppb	8.2	500.01	165000	
K	39	115	he	2.643	ppb	69.2	30851.43	200000	
Ca	44	115	he	6.484	ppb	10.4	345.56	200000	
V	51	115	he	-0.037	ppb	N/A	62.22	500	
Cr	52	115	he	-0.004	ppb	N/A	685.57	500	
Mn	55	115	he	0.081	ppb	11.8	536.68	2500	
Fe	56	115	he	7.310	ppb	3.9	59493.91	200000	
Co	59	115	he	0.008	ppb	23.2	142.22	500	
Ni	60	115	he	0.025	ppb	33.2	143.33	500	
Cu	65	115	he	0.426	ppb	0.7	2173.54	2500	
Zn	66	115	he	0.250	ppb	28.1	704.47	2500	
As	75	115	he	-0.003	ppb	N/A	12.00	500	
Se	78	115	he	-0.033	ppb	N/A	37.00	2500	
Mo	95	115	nogas	0.186	ppb	7.8	1400.10	500	
Ag	107	115	nogas	0.040	ppb	18.8	1373.43	500	
Cd	111	115	nogas	-0.015	ppb	N/A	26.67	500	
Sb	121	115	nogas	-0.013	ppb	N/A	353.34	500	
Ba	137	159	nogas	0.024	ppb	3.8	193.33	2500	
Tl	205	165	nogas	-0.011	ppb	N/A	1003.39	500	
Pb	208	165	nogas	-0.014	ppb	N/A	1860.09	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	844814.80	1.0	897556.06	94.12	70	130	
Sc	45	he	50174.69	2.1	52348.19	95.85	70	130	
In	115	nogas	1102624.00	2.6	1116911.56	98.72	70	130	
In	115	he	312156.75	1.9	320252.21	97.47	70	130	
Tb	159	nogas	1339093.94	0.9	1369618.88	97.77	70	130	
Tb	159	he	845351.77	1.7	858187.03	98.5	70	130	
Ho	165	nogas	1275723.81	1.9	1273021.59	100.21	70	130	
Ho	165	he	821048.51	2.3	825567	99.45	70	130	

Linear Range Sample (LRS) Report

Sample Name	LRS V-397990
File Name	014_LRS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 16:03:20
Sample Type	LRS
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Fail
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	ExpVal	%Rec	%Low	%High	QC Flag
Be	9	165	nogas	518.948	ppb	1.5	2350469.29	500	103.79	90	110	
Na	23	115	he	201566.692	ppb	1.3	188174063.63	200000	100.78	90	110	
Mg	24	115	he	196071.999	ppb	1.6	95479767.32	200000	98.04	90	110	
Al	27	115	he	166677.064	ppb	2.2	32492127.60	165000	101.02	90	110	
K	39	115	he	196881.238	ppb	1.6	86267232.13	200000	98.49	90	110	
Ca	44	115	he	197374.172	ppb	1.5	4449639.82	200000	98.69	90	110	
V	51	115	he	553.610	ppb	2.5	2960783.84	500	110.72	90	110	> +\- 10%
Cr	52	115	he	535.149	ppb	1.8	3429807.23	500	107.03	90	110	
Mn	55	115	he	2498.080	ppb	3.2	8749682.71	2500	99.92	90	110	
Fe	56	115	he	192955.135	ppb	2.9	1002389995.72	200000	96.48	90	110	
Co	59	115	he	489.970	ppb	1.5	5235823.13	500	97.99	90	110	
Ni	60	115	he	514.521	ppb	0.5	1444205.57	500	102.9	90	110	
Cu	65	115	he	2597.161	ppb	0.8	9720556.31	2500	103.89	90	110	
Zn	66	115	he	2524.546	ppb	1.7	2895002.94	2500	100.98	90	110	
As	75	115	he	512.170	ppb	1.3	420156.56	500	102.43	90	110	
Se	78	115	he	2476.981	ppb	1.9	126775.95	2500	99.08	90	110	
Mo	95	115	nogas	514.274	ppb	1.5	3476285.99	500	102.85	90	110	
Ag	107	115	nogas	184.490	ppb	83.2	3169811.57	500	36.9	90	110	> +\- 10%
Cd	111	115	nogas	486.029	ppb	2.6	1589287.48	500	97.21	90	110	
Sb	121	115	nogas	493.310	ppb	3.1	6554466.78	500	98.66	90	110	
Ba	137	159	nogas	2368.363	ppb	1.0	11735981.91	2500	94.73	90	110	
Tl	205	165	nogas	476.439	ppb	2.8	11819503.99	500	95.29	90	110	
Pb	208	165	nogas	2503.878	ppb	2.9	83379744.17	2500	100.16	90	110	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	891366.92	2.0	897556.06	99.31	70	130	
In	115	nogas	998102.23	2.1	1116911.56	89.36	70	130	
Tb	159	nogas	1290064.15	0.1	1369618.88	94.19	70	130	
Ho	165	nogas	1248029.20	1.1	1273021.59	98.04	70	130	
Sc	45	he	52919.26	1.7	52348.19	101.09	70	130	
In	115	he	284634.17	0.4	320252.21	88.88	70	130	
Tb	159	he	799287.92	0.5	858187.03	93.14	70	130	
Ho	165	he	779358.81	0.4	825567	94.4	70	130	

Sample Report

Sample Name	Rinse
File Name	015SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW05282023A.b
Acq Time	2023-06-28 16:06:48
Sample Type	Sample
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	0.058	ppb	37.8	303.34	500	
Na	23	115	he	27.260	ppb	3.1	60361.34	200000	
Mg	24	115	he	2.809	ppb	7.9	2559.13	200000	
Al	27	115	he	1.943	ppb	15.3	717.80	165000	
K	39	115	he	6.082	ppb	13.1	33549.76	200000	
Ca	44	115	he	6.186	ppb	3.2	348.90	200000	
V	51	115	he	-0.030	ppb	N/A	108.89	500	
Cr	52	115	he	-0.007	ppb	N/A	686.69	500	
Mn	55	115	he	0.128	ppb	6.0	741.14	2500	
Fe	56	115	he	7.473	ppb	2.1	62351.76	200000	
Co	59	115	he	0.011	ppb	12.4	194.45	500	
Ni	60	115	he	0.018	ppb	35.5	126.67	500	
Cu	65	115	he	0.464	ppb	3.6	2403.59	2500	
Zn	66	115	he	0.346	ppb	17.1	850.03	2500	
As	75	115	he	0.072	ppb	26.5	82.67	500	
Se	78	115	he	0.192	ppb	13.9	51.33	2500	
Mo	95	115	nogas	0.112	ppb	6.0	873.38	500	
Ag	107	115	nogas	0.142	ppb	15.7	3423.84	500	
Cd	111	115	nogas	-0.006	ppb	N/A	63.33	500	
Sb	121	115	nogas	0.163	ppb	12.7	3023.73	500	
Ba	137	159	nogas	0.046	ppb	25.3	313.34	2500	
Tl	205	165	nogas	0.475	ppb	4.6	13173.78	500	
Pb	208	165	nogas	0.102	ppb	7.6	5740.61	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	896699.07	0.5	897556.06	99.9	70	130	
Sc	45	he	52516.51	0.6	52348.19	100.32	70	130	
In	115	nogas	1133380.43	1.7	1116911.56	101.47	70	130	
In	115	he	322086.86	1.1	320252.21	100.57	70	130	
Tb	159	nogas	1353208.16	1.5	1369618.88	98.8	70	130	
Tb	159	he	863008.53	0.6	858187.03	100.56	70	130	
Ho	165	nogas	1261346.49	2.1	1273021.59	99.08	70	130	
Ho	165	he	837386.67	0.4	825567	101.43	70	130	

Sample Report

Sample Name	Rinse
File Name	016SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 16:10:24
Sample Type	Sample
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	0.025	ppb	35.9	150.00	500	
Na	23	115	he	17.560	ppb	1.3	49364.92	200000	
Mg	24	115	he	1.860	ppb	8.2	2005.71	200000	
Al	27	115	he	1.362	ppb	10.4	581.13	165000	
K	39	115	he	2.293	ppb	20.0	31192.20	200000	
Ca	44	115	he	5.337	ppb	15.8	322.23	200000	
V	51	115	he	-0.033	ppb	N/A	90.00	500	
Cr	52	115	he	-0.015	ppb	N/A	617.80	500	
Mn	55	115	he	0.097	ppb	11.2	608.91	2500	
Fe	56	115	he	3.699	ppb	3.0	39575.94	200000	
Co	59	115	he	0.010	ppb	10.8	178.89	500	
Ni	60	115	he	0.015	ppb	69.1	115.55	500	
Cu	65	115	he	0.396	ppb	2.5	2080.19	2500	
Zn	66	115	he	0.267	ppb	3.6	736.69	2500	
As	75	115	he	0.013	ppb	39.4	27.33	500	
Se	78	115	he	0.088	ppb	71.6	44.67	2500	
Mo	95	115	nogas	0.040	ppb	28.4	306.68	500	
Ag	107	115	nogas	0.126	ppb	15.5	2980.39	500	
Cd	111	115	nogas	-0.017	ppb	N/A	20.00	500	
Sb	121	115	nogas	0.018	ppb	40.0	806.70	500	
Ba	137	159	nogas	0.033	ppb	47.3	236.67	2500	
Tl	205	165	nogas	0.086	ppb	15.9	3443.87	500	
Pb	208	165	nogas	0.050	ppb	11.4	4013.65	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	879018.89	1.7	897556.06	97.93	70	130	
Sc	45	he	51519.61	0.7	52348.19	98.42	70	130	
In	115	nogas	1084492.55	2.2	1116911.56	97.1	70	130	
In	115	he	317239.85	1.0	320252.21	99.06	70	130	
Tb	159	nogas	1320860.35	0.9	1369618.88	96.44	70	130	
Tb	159	he	845092.66	0.5	858187.03	98.47	70	130	
Ho	165	nogas	1260802.84	2.0	1273021.59	99.04	70	130	
Ho	165	he	823333.44	0.1	825567	99.73	70	130	

Sample Report

Sample Name	Rinse
File Name	017SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 16:14:01
Sample Type	Sample
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	0.020	ppb	20.1	130.00	500	
Na	23	115	he	15.227	ppb	2.6	47195.44	200000	
Mg	24	115	he	1.501	ppb	3.5	1821.24	200000	
Al	27	115	he	1.236	ppb	2.6	556.68	165000	
K	39	115	he	1.270	ppb	57.5	30864.74	200000	
Ca	44	115	he	4.519	ppb	50.3	303.34	200000	
V	51	115	he	-0.031	ppb	N/A	103.33	500	
Cr	52	115	he	-0.010	ppb	N/A	662.24	500	
Mn	55	115	he	0.106	ppb	3.9	645.57	2500	
Fe	56	115	he	3.140	ppb	3.0	36534.34	200000	
Co	59	115	he	0.011	ppb	9.6	184.45	500	
Ni	60	115	he	0.032	ppb	28.2	167.78	500	
Cu	65	115	he	0.402	ppb	8.3	2116.86	2500	
Zn	66	115	he	0.252	ppb	6.2	721.13	2500	
As	75	115	he	0.001	ppb	276.1	16.00	500	
Se	78	115	he	0.050	ppb	106.6	42.67	2500	
Mo	95	115	nogas	0.024	ppb	27.9	190.01	500	
Ag	107	115	nogas	0.104	ppb	14.8	2616.97	500	
Cd	111	115	nogas	-0.017	ppb	N/A	23.33	500	
Sb	121	115	nogas	0.003	ppb	303.8	593.36	500	
Ba	137	159	nogas	0.033	ppb	29.1	243.34	2500	
Tl	205	165	nogas	0.031	ppb	17.2	2080.21	500	
Pb	208	165	nogas	0.035	ppb	19.9	3543.60	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	873466.42	2.1	897556.06	97.32	70	130	
Sc	45	he	51347.80	0.9	52348.19	98.09	70	130	
In	115	nogas	1113860.30	2.0	1116911.56	99.73	70	130	
In	115	he	318988.89	0.7	320252.21	99.61	70	130	
Tb	159	nogas	1348956.23	0.8	1369618.88	98.49	70	130	
Tb	159	he	853795.68	0.6	858187.03	99.49	70	130	
Ho	165	nogas	1278232.17	1.0	1273021.59	100.41	70	130	
Ho	165	he	826971.08	0.4	825567	100.17	70	130	

Sample Report

Sample Name	Rinse
File Name	018SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 16:17:38
Sample Type	Sample
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	0.017	ppb	20.8	113.33	500	
Na	23	115	he	14.648	ppb	4.7	47141.90	200000	
Mg	24	115	he	1.545	ppb	12.1	1867.91	200000	
Al	27	115	he	1.162	ppb	15.1	546.68	165000	
K	39	115	he	1.147	ppb	101.4	31167.63	200000	
Ca	44	115	he	4.690	ppb	27.0	311.12	200000	
V	51	115	he	-0.034	ppb	N/A	84.44	500	
Cr	52	115	he	-0.018	ppb	N/A	611.13	500	
Mn	55	115	he	0.103	ppb	9.9	643.35	2500	
Fe	56	115	he	2.734	ppb	2.6	34576.10	200000	
Co	59	115	he	0.009	ppb	16.2	161.11	500	
Ni	60	115	he	0.027	ppb	47.6	156.67	500	
Cu	65	115	he	0.440	ppb	7.2	2303.57	2500	
Zn	66	115	he	0.269	ppb	10.8	752.25	2500	
As	75	115	he	-0.004	ppb	N/A	11.33	500	
Se	78	115	he	0.047	ppb	137.2	43.00	2500	
Mo	95	115	nogas	0.025	ppb	29.9	196.67	500	
Ag	107	115	nogas	0.101	ppb	11.6	2536.94	500	
Cd	111	115	nogas	-0.013	ppb	N/A	36.67	500	
Sb	121	115	nogas	-0.005	ppb	N/A	480.02	500	
Ba	137	159	nogas	0.044	ppb	21.6	306.68	2500	
Tl	205	165	nogas	0.011	ppb	26.3	1556.79	500	
Pb	208	165	nogas	0.024	ppb	10.7	3166.89	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	881440.35	2.4	697556.06	98.2	70	130	
Sc	45	he	51286.42	0.3	52348.19	97.97	70	130	
In	115	nogas	1097346.57	0.4	1116911.56	98.25	70	130	
In	115	he	322797.80	1.3	320252.21	100.79	70	130	
Tb	159	nogas	1372906.59	3.8	1369618.88	100.24	70	130	
Tb	159	he	861589.25	0.3	858187.03	100.4	70	130	
Ho	165	nogas	1272733.81	1.3	1273021.59	99.98	70	130	
Ho	165	he	834163.63	1.1	825567	101.04	70	130	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV V-397991
File Name	019_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 16:21:15
Sample Type	CCV
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	ExpVal	% Rec	%Low	%High	QC Flag
Be	9	165	nogas	49.896	ppb	2.7	236966.64	50	99.79	90	110	
Na	23	115	he	5149.669	ppb	1.0	5254801.04	5000	102.99	90	110	
Mg	24	115	he	5172.234	ppb	1.0	2738610.38	5000	103.44	90	110	
Al	27	115	he	1515.138	ppb	0.7	321276.87	1500	101.01	90	110	
K	39	115	he	5123.358	ppb	0.9	2467202.19	5000	102.47	90	110	
Ca	44	115	he	5091.794	ppb	0.8	124943.32	5000	101.84	90	110	
V	51	115	he	50.574	ppb	0.2	294219.76	50	101.15	90	110	
Cr	52	115	he	51.106	ppb	0.6	358646.15	50	102.21	90	110	
Mn	55	115	he	51.113	ppb	1.4	194797.42	50	102.23	90	110	
Fe	56	115	he	5185.495	ppb	1.0	29295447.73	5000	103.71	90	110	
Co	59	115	he	50.290	ppb	0.3	584130.90	50	100.58	90	110	
Ni	60	115	he	51.052	ppb	0.9	155817.55	50	102.1	90	110	
Cu	65	115	he	51.462	ppb	1.3	209763.93	50	102.92	90	110	
Zn	66	115	he	51.378	ppb	0.8	64417.71	50	102.76	90	110	
As	75	115	he	51.046	ppb	1.1	45530.16	50	102.09	90	110	
Se	78	115	he	254.832	ppb	1.0	14210.96	250	101.93	90	110	
Mo	95	115	nogas	48.807	ppb	1.7	369661.55	50	97.61	90	110	
Ag	107	115	nogas	48.438	ppb	2.0	941302.64	50	96.88	90	110	
Cd	111	115	nogas	49.687	ppb	2.1	182122.74	50	99.37	90	110	
Sb	121	115	nogas	48.054	ppb	1.7	716046.29	50	96.11	90	110	
Ba	137	159	nogas	49.868	ppb	1.3	266006.61	50	99.74	90	110	
Tl	205	165	nogas	51.711	ppb	0.5	1346394.46	50	103.42	90	110	
Pb	208	165	nogas	49.367	ppb	1.6	1726089.57	50	98.73	90	110	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	903224.00	2.3	897556.06	100.63	70	130	
Sc	45	he	51826.24	0.2	52348.19	99	70	130	
In	115	nogas	1118188.75	1.2	1116911.56	100.11	70	130	
In	115	he	309369.32	1.0	320252.21	96.6	70	130	
Tb	159	nogas	1388254.93	0.9	1369618.88	101.36	70	130	
Tb	159	he	868192.43	0.6	858167.03	101.17	70	130	
Ho	165	nogas	1308515.84	1.7	1273021.59	102.79	70	130	
Ho	165	he	834812.71	0.4	825567	101.12	70	130	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB V-397988
File Name	020_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 16:24:49
Sample Type	CCB
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	Limit	QC Flag
Be	9	165	nogas	0.031	ppb	29.3	136.67	1	
Na	23	115	he	14.709	ppb	5.4	45565.69	500	
Mg	24	115	he	0.928	ppb	9.7	1473.42	500	
Al	27	115	he	0.594	ppb	26.0	406.68	200	
K	39	115	he	5.161	ppb	12.1	32009.52	500	
Ca	44	115	he	3.622	ppb	38.2	274.45	500	
V	51	115	he	0.030	ppb	2.7	456.68	1	
Cr	52	115	he	0.006	ppb	56.6	756.69	2	
Mn	55	115	he	0.743	ppb	4.9	3073.69	6	
Fe	56	115	he	3.308	ppb	2.5	36645.74	300	
Co	59	115	he	0.001	ppb	97.3	71.11	2	
Ni	60	115	he	0.030	ppb	17.5	157.78	3	
Cu	65	115	he	0.218	ppb	9.5	1313.42	10	
Zn	66	115	he	0.541	ppb	13.7	1066.71	20	
As	75	115	he	0.022	ppb	45.5	34.67	1	
Se	78	115	he	-0.009	ppb	N/A	38.33	10	
Mo	95	115	nogas	0.040	ppb	22.9	233.34	1	
Ag	107	115	nogas	0.028	ppb	19.1	876.71	1	
Cd	111	115	nogas	0.007	ppb	39.8	83.33	2	
Sb	121	115	nogas	0.059	ppb	15.8	1080.07	3	
Ba	137	159	nogas	0.034	ppb	13.2	190.01	5	
Tl	205	165	nogas	0.048	ppb	3.2	1920.18	2	
Pb	208	165	nogas	0.018	ppb	26.3	2283.46	3	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	648766.81	2.0	897556.06	72.28	70	130	
Sc	45	he	50547.08	1.6	52348.19	96.56	70	130	
In	115	nogas	841118.00	5.3	1116911.56	75.31	70	130	
In	115	he	311580.77	1.1	320252.21	97.29	70	130	
Tb	159	nogas	1041226.37	4.9	1369618.88	76.02	70	130	
Tb	159	he	859492.67	1.0	858187.03	100.15	70	130	
Ho	165	nogas	980199.18	3.3	1273021.59	77	70	130	
Ho	165	he	830408.94	0.8	825567	100.59	70	130	

Prep Blank (PB) Report

Sample Name	MB 107918
File Name	021_PB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 16:28:27
Sample Type	PB
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	Limit	QC Flag
Be	9	165	nogas	0.011	ppb	33.7	90.00	0.5	
Na	23	115	he	20.578	ppb	3.3	50254.64	250	
Mg	24	115	he	1.649	ppb	11.0	1810.12	250	
Al	27	115	he	2.558	ppb	17.5	804.47	100	
K	39	115	he	2.498	ppb	85.4	29949.51	250	
Ca	44	115	he	6.273	ppb	31.7	331.12	250	
V	51	115	he	0.251	ppb	0.4	1706.78	0.5	
Cr	52	115	he	0.081	ppb	14.8	1252.28	1	
Mn	55	115	he	0.200	ppb	9.4	965.59	3	
Fe	56	115	he	12.458	ppb	1.9	86414.62	150	
Co	59	115	he	0.005	ppb	17.2	106.67	1	
Ni	60	115	he	0.031	ppb	22.9	157.78	1.5	
Cu	65	115	he	0.198	ppb	17.8	1203.40	5	
Zn	66	115	he	2.106	ppb	2.5	2954.77	10	
As	75	115	he	0.073	ppb	3.1	78.00	0.5	
Se	78	115	he	0.062	ppb	154.1	41.33	5	
Mo	95	115	nogas	0.020	ppb	28.0	166.67	0.5	
Ag	107	115	nogas	0.190	ppb	4.6	4320.78	0.5	
Cd	111	115	nogas	-0.001	ppb	N/A	80.00	1	
Sb	121	115	nogas	0.116	ppb	2.5	2290.24	1.5	
Ba	137	159	nogas	0.091	ppb	21.9	556.69	2.5	
Tl	205	165	nogas	0.009	ppb	10.3	1550.12	1.5	
Pb	208	165	nogas	0.051	ppb	3.3	4150.33	1.5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	845750.40	1.7	897556.06	94.23	70	130	
Sc	45	he	50464.69	1.0	52348.19	96.4	70	130	
In	115	nogas	1121663.21	1.3	1116911.56	100.43	70	130	
In	115	he	303663.38	0.7	320252.21	94.82	70	130	
Tb	159	nogas	1382524.61	2.9	1369618.88	100.94	70	130	
Tb	159	he	856558.13	0.6	858187.03	99.81	70	130	
Ho	165	nogas	1294389.69	0.8	1273021.59	101.68	70	130	
Ho	165	he	829569.95	0.9	825567	100.48	70	130	

Laboratory Control Sample (LCS) Report

Sample Name	LCS 107918
File Name	022_LCS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 16:32:05
Sample Type	LCS
Total Dilution	1.0000
Comment	--
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	ExpVal	% Rec	%Low	%High	QC Flag
Be	9	165	nogas	230.961	ppb	5.0	1088179.12	250	92.38	80	120	
Na	23	115	he	23333.164	ppb	1.1	21940413.02	25000	93.33	80	120	
Mg	24	115	he	22971.352	ppb	1.2	11255507.88	25000	91.89	80	120	
Al	27	115	he	2318.866	ppb	0.8	455070.26	2500	92.75	80	120	
K	39	115	he	22284.568	ppb	0.7	9843394.61	25000	89.14	80	120	
Ca	44	115	he	22340.622	ppb	1.0	506909.98	25000	89.36	80	120	
V	51	115	he	239.642	ppb	0.7	1289635.19	250	95.86	80	120	
Cr	52	115	he	244.427	ppb	0.8	1576547.26	250	97.77	80	120	
Mn	55	115	he	228.565	ppb	0.4	805618.27	250	91.43	80	120	
Fe	56	115	he	2364.902	ppb	0.4	12376550.90	2500	94.6	80	120	
Co	59	115	he	232.213	ppb	0.1	2496663.51	250	92.89	80	120	
Ni	60	115	he	227.686	ppb	1.2	643063.50	250	91.07	80	120	
Cu	65	115	he	227.321	ppb	0.6	856386.42	250	90.93	80	120	
Zn	66	115	he	228.688	ppb	0.7	264193.44	250	91.48	80	120	
As	75	115	he	230.428	ppb	0.3	190195.88	250	92.17	80	120	
Se	78	115	he	226.872	ppb	1.6	11715.31	250	90.75	80	120	
Mo	95	115	nogas	232.580	ppb	2.2	1679288.57	250	93.03	80	120	
Ag	107	115	nogas	40.840	ppb	2.8	756771.53	50	81.68	80	120	
Cd	111	115	nogas	223.287	ppb	3.5	779979.18	250	89.31	80	120	
Sb	121	115	nogas	222.580	ppb	3.0	3159645.99	250	89.03	80	120	
Ba	137	159	nogas	214.981	ppb	2.0	1144847.82	250	85.99	80	120	
Tl	205	165	nogas	221.410	ppb	4.9	5715667.41	250	88.56	80	120	
Pb	208	165	nogas	222.928	ppb	3.6	7726451.13	250	89.17	80	120	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	848191.73	2.2	897556.06	94.5	70	130	
Sc	45	he	48050.73	0.3	52348.19	91.79	70	130	
In	115	nogas	1066405.61	2.9	1116911.56	95.48	70	130	
In	115	he	286388.72	0.7	320252.21	89.43	70	130	
Tb	159	nogas	1386507.69	1.8	1369618.88	101.23	70	130	
Tb	159	he	841745.07	0.6	858187.03	98.08	70	130	
Ho	165	nogas	1298969.30	2.1	1273021.59	102.04	70	130	
Ho	165	he	819035.38	0.7	825567	99.21	70	130	

Laboratory Control Sample (LCS) Report

Sample Name	LCS MR 107918
File Name	023_LCS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 16:35:34
Sample Type	LCS
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	ExpVal	% Rec	%Low	%High	QC Flag
Be	9	165	nogas	239.325	ppb	2.4	1134833.11	250	95.73	80	120	
Na	23	115	he	24438.980	ppb	0.6	23111809.08	25000	97.76	80	120	
Mg	24	115	he	24179.831	ppb	1.3	11914988.41	25000	96.72	80	120	
Al	27	115	he	2426.440	ppb	1.3	478897.60	2500	97.06	80	120	
K	39	115	he	23542.077	ppb	1.5	10457117.36	25000	94.17	80	120	
Ca	44	115	he	23500.846	ppb	1.3	536257.63	25000	94	80	120	
V	51	115	he	251.104	ppb	2.9	1358931.23	250	100.44	80	120	
Cr	52	115	he	255.307	ppb	1.8	1656215.52	250	102.12	80	120	
Mn	55	115	he	238.550	ppb	1.0	845615.42	250	95.42	80	120	
Fe	56	115	he	2493.715	ppb	1.4	13124512.53	2500	99.75	80	120	
Co	59	115	he	243.592	ppb	0.1	2633981.91	250	97.44	80	120	
Ni	60	115	he	238.548	ppb	0.9	677605.36	250	95.42	80	120	
Cu	65	115	he	237.359	ppb	0.7	899287.64	250	94.94	80	120	
Zn	66	115	he	239.622	ppb	0.9	278371.77	250	95.85	80	120	
As	75	115	he	239.643	ppb	1.3	198932.07	250	95.86	80	120	
Se	78	115	he	238.356	ppb	1.6	12377.22	250	95.34	80	120	
Mo	95	115	nogas	239.636	ppb	1.8	1771406.95	250	95.85	80	120	
Ag	107	115	nogas	41.963	ppb	0.9	796029.96	50	83.93	80	120	
Cd	111	115	nogas	228.866	ppb	1.6	818523.14	250	91.55	80	120	
Sb	121	115	nogas	230.878	ppb	1.8	3355570.89	250	92.35	80	120	
Ba	137	159	nogas	227.288	ppb	3.6	1219741.70	250	90.92	80	120	
Tl	205	165	nogas	229.083	ppb	1.5	5950990.95	250	91.63	80	120	
Pb	208	165	nogas	236.442	ppb	1.4	8246008.73	250	94.58	80	120	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	854128.81	1.5	897556.06	95.16	70	130	
Sc	45	he	47892.34	1.1	52348.19	91.49	70	130	
In	115	nogas	1091401.05	1.4	1116911.56	97.72	70	130	
In	115	he	288027.73	1.0	320252.21	89.94	70	130	
Tb	159	nogas	1397924.82	2.7	1369618.88	102.07	70	130	
Tb	159	he	846204.86	0.8	858187.03	98.6	70	130	
Ho	165	nogas	1306359.62	0.8	1273021.59	102.62	70	130	
Ho	165	he	822259.73	1.0	825567	99.6	70	130	

Sample Report

Sample Name	AD38798-002
File Name	024SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 16:39:03
Sample Type	Sample
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	0.051	ppb	17.9	283.34	500	
Na	23	115	he	72773.337	ppb	11.3	74442830.38	200000	
Mg	24	115	he	8107.679	ppb	13.1	4318727.47	200000	
Al	27	115	he	6.915	ppb	16.7	1753.45	165000	
K	39	115	he	1273.322	ppb	13.7	639210.50	200000	
Ca	44	115	he	47172.188	ppb	12.5	1163881.55	200000	
V	51	115	he	0.495	ppb	12.7	3183.71	500	
Cr	52	115	he	0.245	ppb	13.3	2440.23	500	
Mn	55	115	he	181.917	ppb	12.7	697300.86	2500	
Fe	56	115	he	134.879	ppb	12.4	784787.64	200000	
Co	59	115	he	0.351	ppb	13.6	4153.99	500	
Ni	60	115	he	0.395	ppb	15.7	1276.73	500	
Cu	65	115	he	0.574	ppb	14.8	2773.67	2500	
Zn	66	115	he	2.992	ppb	14.7	4140.64	2500	
As	75	115	he	0.695	ppb	10.5	640.68	500	
Se	78	115	he	0.385	ppb	51.1	60.67	2500	
Mo	95	115	nogas	1.749	ppb	3.6	12989.72	500	
Ag	107	115	nogas	0.088	ppb	19.7	2280.25	500	
Cd	111	115	nogas	-0.002	ppb	N/A	73.33	500	
Sb	121	115	nogas	0.689	ppb	3.1	10604.37	500	
Ba	137	159	nogas	32.820	ppb	1.6	173701.62	2500	
Tl	205	165	nogas	0.372	ppb	3.0	11165.08	500	
Pb	208	165	nogas	0.094	ppb	6.5	5760.59	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	879155.22	1.6	897556.06	97.95	70	130	
Sc	45	he	52053.51	13.6	52348.19	99.44	70	130	
In	115	nogas	1096318.25	2.8	1116911.56	98.16	70	130	
In	115	he	315081.43	13.8	320252.21	98.39	70	130	
Tb	159	nogas	1377340.19	0.6	1369618.88	100.56	70	130	
Tb	159	he	929170.52	15.0	858187.03	108.27	70	130	
Ho	165	nogas	1328325.79	2.4	1273021.59	104.34	70	130	
Ho	165	he	894430.31	13.4	825567	108.34	70	130	

Sample Report

Sample Name	AD38798-002 MR
File Name	025SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 16:42:37
Sample Type	Sample
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	0.041	ppb	15.6	233.34	500	
Na	23	115	he	81137.384	ppb	3.1	78106410.23	200000	
Mg	24	115	he	9007.850	ppb	1.7	4523153.02	200000	
Al	27	115	he	8.503	ppb	9.8	1972.37	165000	
K	39	115	he	1409.855	ppb	1.0	664169.61	200000	
Ca	44	115	he	53053.746	ppb	2.7	1233214.40	200000	
V	51	115	he	0.574	ppb	1.7	3430.44	500	
Cr	52	115	he	0.250	ppb	1.5	2323.54	500	
Mn	55	115	he	201.792	ppb	1.4	728818.58	2500	
Fe	56	115	he	151.920	ppb	1.6	830391.42	200000	
Co	59	115	he	0.385	ppb	2.8	4288.46	500	
Ni	60	115	he	0.419	ppb	3.8	1276.73	500	
Cu	65	115	he	0.617	ppb	5.2	2777.00	2500	
Zn	66	115	he	3.339	ppb	1.8	4312.91	2500	
As	75	115	he	0.777	ppb	5.1	671.35	500	
Se	78	115	he	0.361	ppb	40.1	55.67	2500	
Mo	95	115	nogas	1.724	ppb	2.0	12842.95	500	
Ag	107	115	nogas	0.073	ppb	9.5	2010.19	500	
Cd	111	115	nogas	-0.003	ppb	N/A	73.33	500	
Sb	121	115	nogas	0.621	ppb	5.7	9626.94	500	
Ba	137	159	nogas	33.155	ppb	1.0	176808.20	2500	
Tl	205	165	nogas	0.073	ppb	4.8	3260.47	500	
Pb	208	165	nogas	0.102	ppb	6.6	6010.67	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	877553.53	1.0	897556.06	97.77	70	130	
Sc	45	he	48798.81	1.4	52348.19	93.22	70	130	
In	115	nogas	1098556.89	0.8	1116911.56	98.36	70	130	
In	115	he	293456.28	0.1	320252.21	91.63	70	130	
Tb	159	nogas	1387704.88	0.8	1369618.88	101.32	70	130	
Tb	159	he	859382.92	0.2	858187.03	100.14	70	130	
Ho	165	nogas	1320584.31	0.2	1273021.59	103.74	70	130	
Ho	165	he	837165.50	1.4	825567	101.4	70	130	

Sample Report

Sample Name	AD38798-002 SD
File Name	026SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 16:46:12
Sample Type	Sample
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	0.022	ppb	30.2	143.34	500	
Na	23	115	he	16511.542	ppb	2.3	17247358.76	200000	
Mg	24	115	he	1894.548	ppb	2.8	1031760.86	200000	
Al	27	115	he	1.851	ppb	7.4	688.91	165000	
K	39	115	he	296.661	ppb	1.3	175245.71	200000	
Ca	44	115	he	10826.843	ppb	1.7	272870.75	200000	
V	51	115	he	0.114	ppb	12.0	968.93	500	
Cr	52	115	he	0.048	ppb	17.8	1070.05	500	
Mn	55	115	he	42.409	ppb	1.4	166176.14	2500	
Fe	56	115	he	30.359	ppb	0.7	194378.17	200000	
Co	59	115	he	0.085	ppb	7.6	1066.71	500	
Ni	60	115	he	0.104	ppb	10.2	393.34	500	
Cu	65	115	he	0.275	ppb	12.0	1580.12	2500	
Zn	66	115	he	6.605	ppb	2.1	8857.30	2500	
As	75	115	he	0.192	ppb	12.1	191.33	500	
Se	78	115	he	0.017	ppb	342.6	40.67	2500	
Mo	95	115	nogas	0.366	ppb	3.6	2903.71	500	
Ag	107	115	nogas	-0.016	ppb	N/A	330.01	500	
Cd	111	115	nogas	-0.005	ppb	N/A	66.67	500	
Sb	121	115	nogas	0.132	ppb	3.2	2636.97	500	
Ba	137	159	nogas	7.116	ppb	1.5	38573.15	2500	
Tl	205	165	nogas	0.014	ppb	23.1	1736.82	500	
Pb	208	165	nogas	-0.003	ppb	N/A	2350.13	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	922247.93	0.8	897556.06	102.75	70	130	
Sc	45	he	52062.65	0.8	52348.19	99.45	70	130	
In	115	nogas	1167115.53	0.5	1116911.56	104.49	70	130	
In	115	he	318000.48	0.8	320252.21	99.3	70	130	
Tb	159	nogas	1408528.57	0.1	1369618.88	102.84	70	130	
Tb	159	he	891423.05	0.6	858187.03	103.87	70	130	
Ho	165	nogas	1338734.30	1.7	1273021.59	105.16	70	130	
Ho	165	he	866256.70	0.7	825567	104.93	70	130	

Sample Report

Sample Name	AD38798-004 MS1
File Name	027SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 16:49:48
Sample Type	Sample
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	241.652	ppb	0.3	1138493.92	500	
Na	23	115	he	115201.240	ppb	12.2	99744418.26	200000	
Mg	24	115	he	35801.333	ppb	12.7	16161354.91	200000	
Al	27	115	he	2673.288	ppb	13.4	483073.58	165000	
K	39	115	he	27227.486	ppb	12.7	11074751.78	200000	
Ca	44	115	he	82216.962	ppb	12.3	1718818.51	200000	
V	51	115	he	286.376	ppb	13.2	1419273.87	500	
Cr	52	115	he	281.751	ppb	13.2	1673583.65	500	
Mn	55	115	he	494.090	ppb	12.3	1604867.51	2500	
Fe	56	115	he	2658.742	ppb	13.7	13771186.67	200000	
Co	59	115	he	268.063	ppb	14.2	2652452.26	500	
Ni	60	115	he	259.270	ppb	13.5	674234.92	500	
Cu	65	115	he	264.034	ppb	16.9	913603.74	2500	
Zn	66	115	he	257.207	ppb	13.1	273640.31	2500	
As	75	115	he	267.853	ppb	12.7	203700.20	500	
Se	78	115	he	258.531	ppb	11.8	12303.49	2500	
Mo	95	115	nogas	248.301	ppb	2.1	1807939.14	500	
Ag	107	115	nogas	41.990	ppb	2.1	784600.43	500	
Cd	111	115	nogas	231.717	ppb	1.2	816405.51	500	
Sb	121	115	nogas	234.886	ppb	1.6	3362972.03	500	
Ba	137	159	nogas	263.100	ppb	3.6	1385006.75	2500	
Tl	205	165	nogas	228.603	ppb	2.2	5900055.12	500	
Pb	208	165	nogas	232.035	ppb	2.3	8039629.82	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	882443.06	2.1	897556.06	98.32	70	130	
Sc	45	he	46528.00	11.1	52348.19	88.88	70	130	
In	115	nogas	1075152.88	1.4	1116911.56	96.26	70	130	
In	115	he	266291.10	10.8	320252.21	83.15	70	130	
Tb	159	nogas	1371033.21	1.9	1369618.88	100.1	70	130	
Tb	159	he	788800.00	10.9	858187.03	91.91	70	130	
Ho	165	nogas	1298021.93	0.7	1273021.59	101.96	70	130	
Ho	165	he	769848.43	10.3	825567	93.25	70	130	

Sample Report

Sample Name	AD38798-005 MS2
File Name	028SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 16:53:16
Sample Type	Sample
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	253.375	ppb	0.9	1137692.07	500	
Na	23	115	he	104956.579	ppb	1.2	97778385.00	200000	
Mg	24	115	he	32994.607	ppb	1.4	16032796.58	200000	
Al	27	115	he	2418.584	ppb	1.7	470653.16	165000	
K	39	115	he	24724.146	ppb	2.2	10826352.63	200000	
Ca	44	115	he	77666.925	ppb	1.8	1747133.92	200000	
V	51	115	he	249.058	ppb	2.0	1329133.00	500	
Cr	52	115	he	255.673	ppb	3.2	1635117.64	500	
Mn	55	115	he	445.958	ppb	2.1	1558662.37	2500	
Fe	56	115	he	2583.819	ppb	2.3	13408979.74	200000	
Co	59	115	he	241.363	ppb	2.0	2573629.00	500	
Ni	60	115	he	233.681	ppb	1.9	654475.82	500	
Cu	65	115	he	234.388	ppb	1.7	875648.30	2500	
Zn	66	115	he	234.356	ppb	2.4	268459.25	2500	
As	75	115	he	240.722	ppb	1.6	197044.09	500	
Se	78	115	he	233.277	ppb	2.5	11945.17	2500	
Mo	95	115	nogas	262.968	ppb	3.2	1772982.89	500	
Ag	107	115	nogas	44.325	ppb	2.3	766995.09	500	
Cd	111	115	nogas	245.575	ppb	2.5	801178.84	500	
Sb	121	115	nogas	249.031	ppb	3.6	3300906.62	500	
Ba	137	159	nogas	274.075	ppb	1.3	1372913.00	2500	
Tl	205	165	nogas	235.570	ppb	0.5	5795001.58	500	
Pb	208	165	nogas	242.316	ppb	0.3	8002714.41	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	827622.59	1.7	897556.06	92.21	70	130	
Sc	45	he	48337.28	0.9	52348.19	92.34	70	130	
In	115	nogas	996026.78	3.4	1116911.56	89.18	70	130	
In	115	he	284027.61	1.0	320252.21	88.69	70	130	
Tb	159	nogas	1304304.49	2.3	1369618.88	95.23	70	130	
Tb	159	he	849396.51	0.2	858187.03	98.98	70	130	
Ho	165	nogas	1237143.73	1.4	1273021.59	97.18	70	130	
Ho	165	he	825745.54	0.7	825567	100.02	70	130	

Sample Report

Sample Name	AD38798-002 PS
File Name	029SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 16:56:44
Sample Type	Sample
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	46.606	ppb	0.9	225495.19	500	
Na	23	115	he	81482.544	ppb	1.4	77182874.71	200000	
Mg	24	115	he	13457.190	ppb	1.6	6648479.46	200000	
Al	27	115	he	1454.769	ppb	1.2	287934.52	165000	
K	39	115	he	6239.691	ppb	1.9	2798415.10	200000	
Ca	44	115	he	54236.881	ppb	1.7	1240539.53	200000	
V	51	115	he	49.921	ppb	1.7	271058.51	500	
Cr	52	115	he	50.099	ppb	2.1	326315.85	500	
Mn	55	115	he	238.709	ppb	1.4	848291.86	2500	
Fe	56	115	he	5142.233	ppb	1.8	27114536.70	200000	
Co	59	115	he	48.861	ppb	1.5	529705.81	500	
Ni	60	115	he	49.788	ppb	1.4	141822.09	500	
Cu	65	115	he	50.441	ppb	1.4	191890.37	2500	
Zn	66	115	he	54.887	ppb	0.3	64202.23	2500	
As	75	115	he	50.342	ppb	1.3	41907.35	500	
Se	78	115	he	239.795	ppb	1.2	12481.98	2500	
Mo	95	115	nogas	50.157	ppb	3.7	370728.81	500	
Ag	107	115	nogas	45.377	ppb	2.4	860672.20	500	
Cd	111	115	nogas	48.159	ppb	2.8	172292.55	500	
Sb	121	115	nogas	48.510	ppb	2.0	705476.58	500	
Ba	137	159	nogas	78.003	ppb	1.0	422935.80	2500	
Tl	205	165	nogas	50.681	ppb	1.3	1344160.14	500	
Pb	208	165	nogas	47.305	ppb	1.6	1685288.64	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	903310.38	1.2	897556.06	100.64	70	130	
Sc	45	he	48333.88	1.9	52348.19	92.33	70	130	
In	115	nogas	1091367.61	0.8	1116911.56	97.71	70	130	
In	115	he	288745.76	0.6	320252.21	90.16	70	130	
Tb	159	nogas	1411382.11	1.7	1369618.88	103.05	70	130	
Tb	159	he	861603.35	0.4	858187.03	100.4	70	130	
Ho	165	nogas	1332933.58	1.2	1273021.59	104.71	70	130	
Ho	165	he	834001.56	0.3	825567	101.02	70	130	

Sample Report

Sample Name	Rinse
File Name	030SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 17:00:19
Sample Type	Sample
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	0.027	ppb	34.8	173.34	500	
Na	23	115	he	16.284	ppb	4.5	50841.18	200000	
Mg	24	115	he	1.635	ppb	3.7	1993.48	200000	
Al	27	115	he	1.017	ppb	13.3	535.57	165000	
K	39	115	he	2.256	ppb	18.4	32997.33	200000	
Ca	44	115	he	6.009	ppb	20.3	358.90	200000	
V	51	115	he	-0.024	ppb	N/A	150.00	500	
Cr	52	115	he	-0.009	ppb	N/A	703.36	500	
Mn	55	115	he	0.083	ppb	15.1	585.57	2500	
Fe	56	115	he	2.845	ppb	1.2	36650.21	200000	
Co	59	115	he	0.005	ppb	32.4	126.67	500	
Ni	60	115	he	0.024	ppb	16.9	150.00	500	
Cu	65	115	he	0.446	ppb	1.2	2423.59	2500	
Zn	66	115	he	0.252	ppb	20.3	758.91	2500	
As	75	115	he	0.016	ppb	37.5	32.00	500	
Se	78	115	he	0.006	ppb	4067.2	42.33	2500	
Mo	95	115	nogas	0.042	ppb	7.9	350.01	500	
Ag	107	115	nogas	0.006	ppb	54.3	763.37	500	
Cd	111	115	nogas	-0.011	ppb	N/A	46.67	500	
Sb	121	115	nogas	0.030	ppb	30.0	1050.06	500	
Ba	137	159	nogas	0.045	ppb	34.2	320.01	2500	
Tl	205	165	nogas	0.141	ppb	2.5	5217.85	500	
Pb	208	165	nogas	0.009	ppb	54.2	2846.85	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	928905.92	2.7	897556.06	103.49	70	130	
Sc	45	he	54514.07	0.7	52348.19	104.14	70	130	
In	115	nogas	1172930.50	0.0	1116911.56	105.02	70	130	
In	115	he	335790.91	1.0	320252.21	104.85	70	130	
Tb	159	nogas	1422004.56	1.6	1369618.88	103.82	70	130	
Tb	159	he	905029.23	1.1	858187.03	105.46	70	130	
Ho	165	nogas	1364460.86	1.7	1273021.59	107.18	70	130	
Ho	165	he	878898.37	0.6	825567	106.46	70	130	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV V-397991
File Name	031_CCV.d
Data Path Name	D:\AgilentICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 17:03:57
Sample Type	CCV
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	ExpVal	% Rec	%Low	%High	QC Flag
Be	9	165	nogas	49.850	ppb	1.3	246645.04	50	99.7	90	110	
Na	23	115	he	5065.650	ppb	0.5	5307402.15	5000	101.31	90	110	
Mg	24	115	he	5073.156	ppb	2.1	2757716.07	5000	101.46	90	110	
Al	27	115	he	1479.625	ppb	1.6	322139.36	1500	98.64	90	110	
K	39	115	he	4985.626	ppb	1.1	2465785.74	5000	99.71	90	110	
Ca	44	115	he	4984.734	ppb	1.5	125584.53	5000	99.69	90	110	
V	51	115	he	49.763	ppb	1.7	297230.86	50	99.53	90	110	
Cr	52	115	he	50.199	ppb	1.2	359663.69	50	100.4	90	110	
Mn	55	115	he	50.228	ppb	1.3	196529.67	50	100.46	90	110	
Fe	56	115	he	5089.810	ppb	0.8	29521804.38	5000	101.8	90	110	
Co	59	115	he	49.848	ppb	1.6	594452.88	50	99.7	90	110	
Ni	60	115	he	50.526	ppb	0.7	158320.74	50	101.05	90	110	
Cu	65	115	he	51.420	ppb	1.3	215180.20	50	102.84	90	110	
Zn	66	115	he	50.998	ppb	1.2	65647.82	50	102	90	110	
As	75	115	he	50.208	ppb	1.4	45974.92	50	100.42	90	110	
Se	78	115	he	248.316	ppb	0.2	14217.31	250	99.33	90	110	
Mo	95	115	nogas	49.954	ppb	1.6	386681.62	50	99.91	90	110	
Ag	107	115	nogas	50.020	ppb	1.9	993188.00	50	100.04	90	110	
Cd	111	115	nogas	50.071	ppb	1.2	187586.12	50	100.14	90	110	
Sb	121	115	nogas	49.258	ppb	0.3	750050.09	50	98.52	90	110	
Ba	137	159	nogas	50.023	ppb	1.6	273442.09	50	100.05	90	110	
Tl	205	165	nogas	52.258	ppb	2.9	1417265.76	50	104.52	90	110	
Pb	208	165	nogas	49.929	ppb	1.8	1818255.92	50	99.86	90	110	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	934217.64	2.3	897556.06	104.08	70	130	
Sc	45	he	52557.83	0.5	52348.19	100.4	70	130	
In	115	nogas	1142633.11	1.2	1116911.56	102.3	70	130	
In	115	he	317626.06	0.1	320252.21	99.18	70	130	
Tb	159	nogas	1422574.72	1.1	1369618.88	103.87	70	130	
Tb	159	he	891249.03	0.7	858187.03	103.85	70	130	
Ho	165	nogas	1363040.76	2.8	1273021.59	107.07	70	130	
Ho	165	he	859519.93	1.2	825567	104.11	70	130	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB V-397988
File Name	032_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 17:07:31
Sample Type	CCB
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	Limit	QC Flag
Be	9	165	noges	0.032	ppb	16.9	193.34	1	
Na	23	115	he	22.690	ppb	44.1	49369.40	500	
Mg	24	115	he	1.249	ppb	38.6	1516.75	500	
Al	27	115	he	0.915	ppb	74.1	431.12	200	
K	39	115	he	11.182	ppb	122.2	32077.46	500	
Ca	44	115	he	9.073	ppb	32.4	376.67	500	
V	51	115	he	0.004	ppb	211.3	280.01	1	
Cr	52	115	he	0.007	ppb	270.0	704.47	2	
Mn	55	115	he	0.791	ppb	22.0	2989.23	6	
Fe	56	115	he	3.607	ppb	33.3	35282.28	300	
Co	59	115	he	0.004	ppb	70.5	95.56	2	
Ni	60	115	he	0.053	ppb	37.2	211.12	3	
Cu	65	115	he	0.402	ppb	26.6	1896.83	10	
Zn	66	115	he	1.062	ppb	19.1	1590.10	20	
As	75	115	he	0.018	ppb	62.7	28.00	1	
Se	78	115	he	0.159	ppb	72.4	44.33	10	
Mo	95	115	nogas	0.026	ppb	6.5	220.01	1	
Ag	107	115	nogas	-0.018	ppb	N/A	290.01	1	
Cd	111	115	nogas	-0.002	ppb	N/A	80.00	2	
Sb	121	115	nogas	0.040	ppb	5.3	1200.07	3	
Ba	137	159	nogas	0.015	ppb	19.7	160.00	5	
Tl	205	165	nogas	0.043	ppb	9.2	2503.62	2	
Pb	208	165	nogas	-0.018	ppb	N/A	1826.75	3	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	910475.22	2.1	897556.06	101.44	70	130	
Sc	45	he	47636.82	15.0	52348.19	91	70	130	
In	115	nogas	1166452.85	2.0	1116911.56	104.44	70	130	
In	115	he	292529.52	16.8	320252.21	91.34	70	130	
Tb	159	nogas	1418452.01	0.5	1369618.88	103.57	70	130	
Tb	159	he	807652.62	15.9	858187.03	94.11	70	130	
Ho	165	nogas	1336277.53	0.5	1273021.59	104.97	70	130	
Ho	165	he	788315.85	15.6	825567	95.49	70	130	

Sample Report

Sample Name	AD38798-001
File Name	033SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 17:11:08
Sample Type	Sample
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	0.063	ppb	12.1	343.34	500	
Na	23	115	he	23949.286	ppb	3.3	22637149.65	200000	
Mg	24	115	he	8518.053	ppb	2.9	4196246.92	200000	
Al	27	115	he	416.680	ppb	5.2	82383.90	165000	
K	39	115	he	1206.770	ppb	3.8	561593.66	200000	
Ca	44	115	he	49369.030	ppb	3.7	1125700.03	200000	
V	51	115	he	1.083	ppb	1.1	6116.92	500	
Cr	52	115	he	1.096	ppb	2.9	7768.87	500	
Mn	55	115	he	191.914	ppb	3.3	679985.32	2500	
Fe	56	115	he	552.347	ppb	5.3	2917506.55	200000	
Co	59	115	he	0.657	ppb	2.9	7147.41	500	
Ni	60	115	he	1.300	ppb	2.5	3751.64	500	
Cu	65	115	he	3.036	ppb	4.2	11895.33	2500	
Zn	66	115	he	7.096	ppb	2.3	8589.37	2500	
As	75	115	he	0.859	ppb	6.0	726.69	500	
Se	78	115	he	1.199	ppb	14.0	98.00	2500	
Mo	95	115	nogas	1.965	ppb	7.2	14721.54	500	
Ag	107	115	nogas	0.043	ppb	10.8	1443.44	500	
Cd	111	115	nogas	0.030	ppb	35.3	190.00	500	
Sb	121	115	nogas	0.765	ppb	3.2	11815.38	500	
Ba	137	159	nogas	27.416	ppb	2.1	150220.36	2500	
Tl	205	165	nogas	0.034	ppb	8.8	2246.91	500	
Pb	208	165	nogas	5.890	ppb	0.4	211746.56	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	902826.81	1.8	897556.06	100.59	70	130	
Sc	45	he	47463.84	1.3	52348.19	90.67	70	130	
In	115	nogas	1105625.15	1.0	1116911.56	98.99	70	130	
In	115	he	288010.50	2.1	320252.21	89.93	70	130	
Tb	159	nogas	1426053.88	1.9	1369618.88	104.12	70	130	
Tb	159	he	848361.20	1.7	858187.03	98.86	70	130	
Ho	165	nogas	1331427.53	1.4	1273021.59	104.59	70	130	
Ho	165	he	821509.10	2.6	825567	99.51	70	130	

Sample Report

Sample Name	AD38796-003
File Name	034SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 17:14:44
Sample Type	Sample
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	0.086	ppb	21.3	456.68	500	
Na	23	115	he	61012.315	ppb	0.4	59081982.10	200000	
Mg	24	115	he	6390.747	ppb	1.1	3227506.19	200000	
Al	27	115	he	397.581	ppb	0.9	80632.72	165000	
K	39	115	he	996.970	ppb	0.2	480567.39	200000	
Ca	44	115	he	45333.275	ppb	2.4	1059700.37	200000	
V	51	115	he	1.313	ppb	0.8	7547.62	500	
Cr	52	115	he	0.772	ppb	6.9	5805.89	500	
Mn	55	115	he	390.528	ppb	2.3	1418658.34	2500	
Fe	56	115	he	940.367	ppb	1.7	5082627.44	200000	
Co	59	115	he	0.489	ppb	1.2	5468.87	500	
Ni	60	115	he	0.827	ppb	2.8	2470.23	500	
Cu	65	115	he	2.259	ppb	6.1	9169.86	2500	
Zn	66	115	he	6.469	ppb	1.2	8057.94	2500	
As	75	115	he	1.014	ppb	5.9	876.70	500	
Se	78	115	he	0.475	ppb	10.0	62.00	2500	
Mo	95	115	nogas	1.266	ppb	1.5	9590.19	500	
Ag	107	115	nogas	0.023	ppb	10.1	1056.72	500	
Cd	111	115	nogas	0.007	ppb	101.0	110.00	500	
Sb	121	115	nogas	0.647	ppb	5.8	10174.03	500	
Ba	137	159	nogas	24.148	ppb	1.6	132538.22	2500	
Tl	205	165	nogas	0.018	ppb	30.1	1820.17	500	
Pb	208	165	nogas	2.869	ppb	0.9	104917.64	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	905710.95	1.4	897556.06	100.91	70	130	
Sc	45	he	48672.79	1.2	52348.19	92.98	70	130	
In	115	nogas	1116918.51	1.4	1116911.56	100	70	130	
In	115	he	295144.61	1.4	320252.21	92.16	70	130	
Tb	159	nogas	1428051.91	1.1	1369618.88	104.27	70	130	
Tb	159	he	861233.44	0.6	858187.03	100.35	70	130	
Ho	165	nogas	1338130.14	1.6	1273021.59	105.11	70	130	
Ho	165	he	838568.65	0.2	825567	101.57	70	130	

Sample Report

Sample Name	AD38798-006
File Name	035SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 17:18:19
Sample Type	Sample
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	0.018	ppb	34.4	123.33	500	
Na	23	115	he	78551.959	ppb	1.0	75131323.66	200000	
Mg	24	115	he	8615.108	ppb	0.7	4298038.72	200000	
Al	27	115	he	10.574	ppb	3.2	2373.55	165000	
K	39	115	he	1215.451	ppb	1.0	572693.14	200000	
Ca	44	115	he	51391.836	ppb	1.9	1186860.92	200000	
V	51	115	he	0.640	ppb	0.6	3769.42	500	
Cr	52	115	he	0.248	ppb	4.9	2299.09	500	
Mn	55	115	he	181.240	ppb	2.2	650352.60	2500	
Fe	56	115	he	157.890	ppb	1.5	856769.27	200000	
Co	59	115	he	0.333	ppb	4.8	3698.29	500	
Ni	60	115	he	0.371	ppb	8.6	1130.05	500	
Cu	65	115	he	0.540	ppb	10.0	2463.60	2500	
Zn	66	115	he	2.893	ppb	2.9	3760.53	2500	
As	75	115	he	0.713	ppb	9.4	612.68	500	
Se	78	115	he	0.361	ppb	17.4	55.33	2500	
Mo	95	115	nogas	1.508	ppb	1.5	11221.47	500	
Ag	107	115	nogas	0.027	ppb	7.1	1116.73	500	
Cd	111	115	nogas	0.003	ppb	97.1	93.33	500	
Sb	121	115	nogas	0.479	ppb	2.6	7548.94	500	
Ba	137	159	nogas	32.847	ppb	0.8	175062.10	2500	
Tl	205	165	nogas	-0.003	ppb	N/A	1276.76	500	
Pb	208	165	nogas	0.091	ppb	6.3	5703.94	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	864032.02	0.7	897556.06	96.26	70	130	
Sc	45	he	48411.95	1.3	52348.19	92.48	70	130	
In	115	nogas	1097097.65	1.1	1116911.56	98.23	70	130	
In	115	he	291563.10	0.5	320252.21	91.04	70	130	
Tb	159	nogas	1387022.69	1.6	1369618.88	101.27	70	130	
Tb	159	he	855547.29	0.9	858187.03	99.69	70	130	
Ho	165	nogas	1333354.72	0.2	1273021.59	104.74	70	130	
Ho	165	he	839391.67	0.9	825567	101.67	70	130	

Sample Report

Sample Name	AD38798-007
File Name	036SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 17:21:56
Sample Type	Sample
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	0.025	ppb	26.0	163.33	500	
Na	23	115	he	121.948	ppb	6.6	156179.91	200000	
Mg	24	115	he	6.190	ppb	7.4	4306.22	200000	
Al	27	115	he	2.588	ppb	14.5	836.70	165000	
K	39	115	he	-0.649	ppb	N/A	29423.97	200000	
Ca	44	115	he	35.822	ppb	20.4	1071.16	200000	
V	51	115	he	0.276	ppb	7.2	1905.69	500	
Cr	52	115	he	0.135	ppb	12.0	1668.99	500	
Mn	55	115	he	0.204	ppb	9.3	1012.26	2500	
Fe	56	115	he	2.093	ppb	13.3	29933.13	200000	
Co	59	115	he	0.011	ppb	34.1	177.78	500	
Ni	60	115	he	0.040	ppb	17.8	190.00	500	
Cu	65	115	he	0.875	ppb	7.0	4033.98	2500	
Zn	66	115	he	1.818	ppb	9.9	2684.72	2500	
As	75	115	he	0.066	ppb	6.1	74.67	500	
Se	78	115	he	-0.025	ppb	N/A	38.00	2500	
Mo	95	115	nogas	0.012	ppb	25.2	106.67	500	
Ag	107	115	nogas	0.020	ppb	34.3	1030.06	500	
Cd	111	115	nogas	-0.009	ppb	N/A	53.33	500	
Sb	121	115	nogas	0.085	ppb	21.3	1870.17	500	
Ba	137	159	nogas	0.113	ppb	5.8	686.70	2500	
Tl	205	165	nogas	-0.015	ppb	N/A	960.05	500	
Pb	208	165	nogas	0.005	ppb	84.6	2670.16	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	884236.06	2.1	897556.06	98.52	70	130	
Sc	45	he	51232.16	6.1	52348.19	97.87	70	130	
In	115	nogas	1145220.84	0.9	1116911.56	102.53	70	130	
In	115	he	314306.22	5.8	320252.21	98.14	70	130	
Tb	159	nogas	1409844.46	1.3	1369618.88	102.94	70	130	
Tb	159	he	897151.40	4.5	858187.03	104.54	70	130	
Ho	165	nogas	1353128.05	2.4	1273021.59	106.29	70	130	
Ho	165	he	875306.60	4.6	825567	106.02	70	130	

Sample Report

Sample Name	AD38796-001
File Name	037SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 17:25:35
Sample Type	Sample
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	0.374	ppb	14.6	1863.49	500	
Na	23	115	he	41918.171	ppb	6.2	40296813.95	200000	
Mg	24	115	he	8298.875	ppb	5.9	4160159.14	200000	
Al	27	115	he	359.036	ppb	5.9	72305.02	165000	
K	39	115	he	3599.440	ppb	6.0	1649846.91	200000	
Ca	44	115	he	26705.706	ppb	4.9	620092.35	200000	
V	51	115	he	0.600	ppb	8.3	3563.81	500	
Cr	52	115	he	0.588	ppb	8.3	4546.32	500	
Mn	55	115	he	616.843	ppb	5.5	2224100.54	2500	
Fe	56	115	he	20529.938	ppb	5.9	109788451.19	200000	
Co	59	115	he	1.318	ppb	4.5	14559.86	500	
Ni	60	115	he	10.466	ppb	5.7	30301.80	500	
Cu	65	115	he	2.409	ppb	5.0	9683.54	2500	
Zn	66	115	he	200.636	ppb	5.7	237173.22	2500	
As	75	115	he	1.930	ppb	3.2	1645.44	500	
Se	78	115	he	0.040	ppb	227.8	38.67	2500	
Mo	95	115	nogas	0.208	ppb	2.5	1560.12	500	
Ag	107	115	nogas	0.012	ppb	32.6	846.71	500	
Cd	111	115	nogas	0.139	ppb	17.4	583.36	500	
Sb	121	115	nogas	1.600	ppb	4.0	23985.16	500	
Ba	137	159	nogas	320.760	ppb	2.7	1750676.59	2500	
Tl	205	165	nogas	-0.012	ppb	N/A	1030.06	500	
Pb	208	165	nogas	0.743	ppb	3.3	29133.45	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	903654.31	2.5	897556.06	100.68	70	130	
Sc	45	he	48163.22	6.0	52348.19	92.01	70	130	
In	115	nogas	1099866.63	1.5	1116911.56	98.47	70	130	
In	115	he	293686.01	6.3	320252.21	91.7	70	130	
Tb	159	nogas	1420865.71	0.8	1369618.88	103.74	70	130	
Tb	159	he	889113.07	6.0	858187.03	103.6	70	130	
Ho	165	nogas	1345327.43	1.1	1273021.59	105.68	70	130	
Ho	165	he	860078.25	6.9	825567	104.18	70	130	

Sample Report

Sample Name	Rinse
File Name	038SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 17:29:08
Sample Type	Sample
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	0.016	ppb	65.3	116.67	500	
Na	23	115	he	13.535	ppb	3.4	46764.02	200000	
Mg	24	115	he	1.126	ppb	8.9	1663.43	200000	
Al	27	115	he	0.955	ppb	5.4	510.01	165000	
K	39	115	he	3.126	ppb	11.9	32709.99	200000	
Ca	44	115	he	6.819	ppb	5.1	372.23	200000	
V	51	115	he	-0.031	ppb	N/A	101.11	500	
Cr	52	115	he	-0.011	ppb	N/A	671.13	500	
Mn	55	115	he	0.092	ppb	17.7	606.68	2500	
Fe	56	115	he	4.129	ppb	0.8	43537.67	200000	
Co	59	115	he	0.003	ppb	53.9	100.00	500	
Ni	60	115	he	0.029	ppb	19.5	165.56	500	
Cu	65	115	he	0.477	ppb	10.4	2506.94	2500	
Zn	66	115	he	0.277	ppb	14.4	776.69	2500	
As	75	115	he	0.005	ppb	50.1	20.00	500	
Se	78	115	he	0.045	ppb	204.4	43.67	2500	
Mo	95	115	nogas	0.013	ppb	6.9	120.00	500	
Ag	107	115	nogas	-0.002	ppb	N/A	603.35	500	
Cd	111	115	nogas	-0.014	ppb	N/A	33.33	500	
Sb	121	115	nogas	-0.009	ppb	N/A	440.02	500	
Ba	137	159	nogas	0.044	ppb	28.4	316.68	2500	
Tl	205	165	nogas	-0.009	ppb	N/A	1113.40	500	
Pb	208	165	nogas	-0.007	ppb	N/A	2236.79	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	914886.97	2.4	897556.06	101.93	70	130	
Sc	45	he	53697.75	0.4	52348.19	102.58	70	130	
In	115	nogas	1175467.29	2.2	1116911.56	105.24	70	130	
In	115	he	328393.90	1.2	320252.21	102.54	70	130	
Tb	159	nogas	1421282.63	1.7	1369618.88	103.77	70	130	
Tb	159	he	898230.55	0.6	858187.03	104.67	70	130	
Ho	165	nogas	1342705.97	2.1	1273021.59	105.47	70	130	
Ho	165	he	870886.10	0.9	825567	105.49	70	130	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV V-397991
File Name	039_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 17:32:46
Sample Type	CCV
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	ExpVal	% Rec	%Low	%High	QC Flag
Be	9	165	nogas	49.858	ppb	1.8	245796.19	50	99.72	90	110	
Na	23	115	he	5211.186	ppb	2.0	5378986.17	5000	104.22	90	110	
Mg	24	115	he	5167.648	ppb	1.9	2767910.03	5000	103.35	90	110	
Al	27	115	he	1484.984	ppb	1.9	318562.84	1500	99	90	110	
K	39	115	he	5051.674	ppb	0.5	2461256.36	5000	101.03	90	110	
Ca	44	115	he	4984.624	ppb	0.8	123731.74	5000	99.69	90	110	
V	51	115	he	49.671	ppb	1.2	292317.44	50	99.34	90	110	
Cr	52	115	he	49.899	ppb	1.3	352268.51	50	99.8	90	110	
Mn	55	115	he	49.877	ppb	1.5	192284.71	50	99.75	90	110	
Fe	56	115	he	5067.330	ppb	2.1	28961018.85	5000	101.35	90	110	
Co	59	115	he	49.564	ppb	0.7	582364.06	50	99.13	90	110	
Ni	60	115	he	50.790	ppb	1.1	156808.16	50	101.58	90	110	
Cu	65	115	he	50.930	ppb	0.9	209980.82	50	101.86	90	110	
Zn	66	115	he	50.425	ppb	0.4	63957.74	50	100.85	90	110	
As	75	115	he	49.664	ppb	1.8	44807.75	50	99.33	90	110	
Se	78	115	he	250.106	ppb	0.8	14108.88	250	100.04	90	110	
Mo	95	115	nogas	48.234	ppb	0.9	378022.65	50	96.47	90	110	
Ag	107	115	nogas	48.235	ppb	1.0	969999.86	50	96.47	90	110	
Cd	111	115	nogas	48.394	ppb	0.3	183569.20	50	96.79	90	110	
Sb	121	115	nogas	47.699	ppb	1.4	735490.30	50	95.4	90	110	
Ba	137	159	nogas	48.748	ppb	2.0	269512.10	50	97.5	90	110	
Tl	205	165	nogas	52.609	ppb	0.8	1421973.36	50	105.22	90	110	
Pb	208	165	nogas	49.541	ppb	1.4	1798088.84	50	99.08	90	110	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	926223.24	1.2	897556.06	103.19	70	130	
Sc	45	he	52160.85	0.7	52348.19	99.64	70	130	
In	115	nogas	1157020.29	1.3	1116911.56	103.59	70	130	
In	115	he	312943.13	0.9	320252.21	97.72	70	130	
Tb	159	nogas	1438960.60	0.2	1369618.88	105.06	70	130	
Tb	159	he	889844.55	0.8	858187.03	103.69	70	130	
Ho	165	nogas	1358315.13	1.8	1273021.59	106.7	70	130	
Ho	165	he	861164.31	0.6	825567	104.31	70	130	

Continuing Calibration Blank (CCB) Report

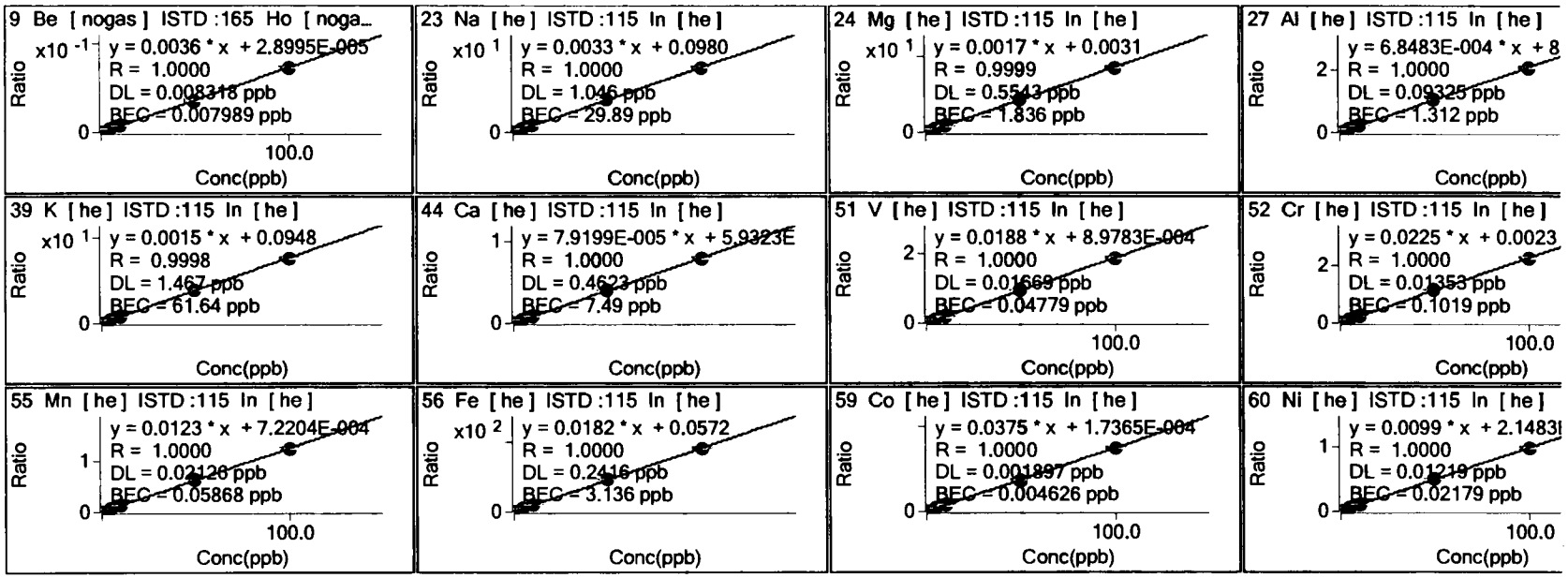
Sample Name	CCB V-397988
File Name	040_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06282023A.b
Acq Time	2023-06-28 17:36:20
Sample Type	CCB
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

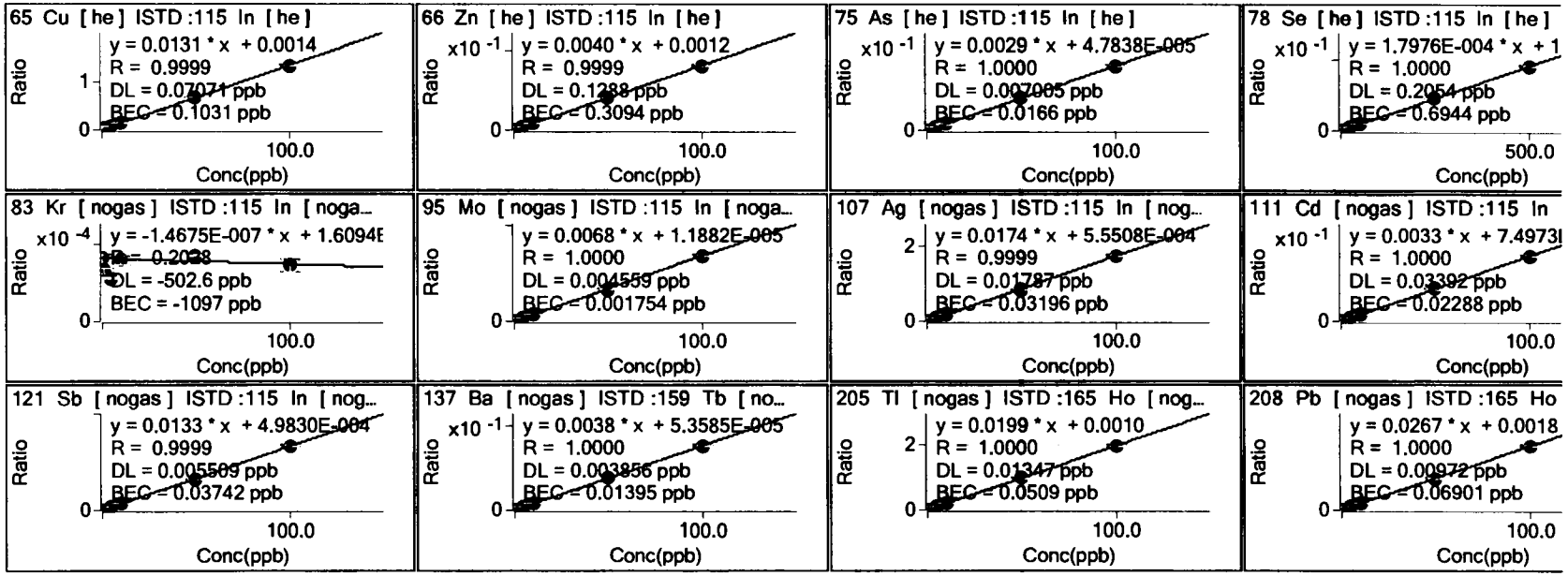
QC Analyte Table

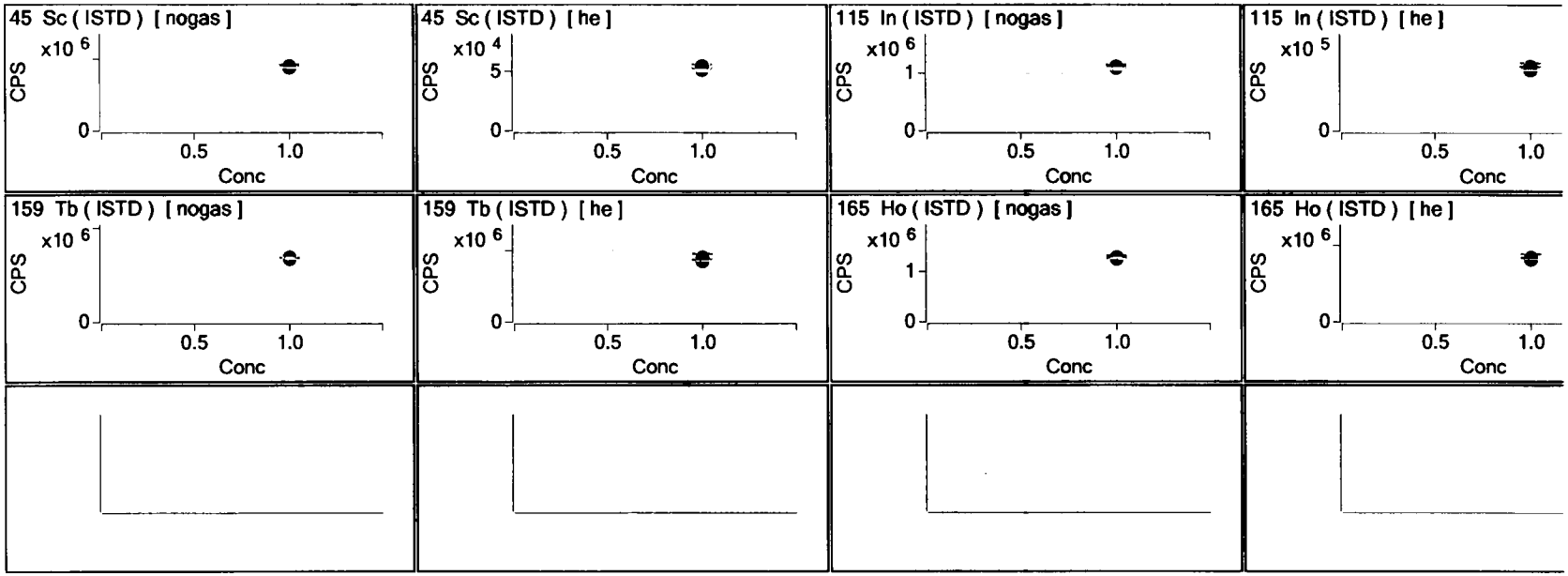
Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	Limit	QC Flag
Be	9	165	nogas	0.016	ppb	18.8	116.67	1	
Na	23	115	he	15.729	ppb	1.8	47457.43	500	
Mg	24	115	he	0.837	ppb	22.8	1450.08	500	
Al	27	115	he	0.523	ppb	63.7	398.80	200	
K	39	115	he	3.523	ppb	8.2	31794.65	500	
Ca	44	115	he	6.673	ppb	18.8	355.56	500	
V	51	115	he	-0.003	ppb	N/A	268.89	1	
Cr	52	115	he	0.006	ppb	171.1	770.03	2	
Mn	55	115	he	0.700	ppb	2.2	2962.55	6	
Fe	56	115	he	3.150	ppb	1.3	36390.57	300	
Co	59	115	he	0.003	ppb	17.9	87.78	2	
Ni	60	115	he	0.050	ppb	32.2	224.45	3	
Cu	65	115	he	0.360	ppb	8.9	1930.16	10	
Zn	66	115	he	0.951	ppb	7.3	1610.10	20	
As	75	115	he	0.015	ppb	68.1	28.67	1	
Se	78	115	he	0.003	ppb	7284.4	39.67	10	
Mo	95	115	nogas	0.029	ppb	14.6	236.67	1	
Ag	107	115	nogas	-0.018	ppb	N/A	266.68	1	
Cd	111	115	nogas	-0.006	ppb	N/A	63.33	2	
Sb	121	115	nogas	0.032	ppb	4.0	1053.39	3	
Ba	137	159	nogas	0.031	ppb	39.6	243.34	5	
Tl	205	165	nogas	0.017	ppb	12.1	1816.83	2	
Pb	208	165	nogas	-0.019	ppb	N/A	1796.75	3	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	896559.05	1.6	897556.06	99.89	70	130	
Sc	45	he	51607.60	1.5	52348.19	98.59	70	130	
In	115	nogas	1136091.08	1.5	1116911.56	101.72	70	130	
In	115	he	317237.33	1.3	320252.21	99.06	70	130	
Tb	159	nogas	1409985.03	1.1	1369618.88	102.95	70	130	
Tb	159	he	893505.38	1.2	858187.03	104.12	70	130	
Ho	165	nogas	1346946.65	1.2	1273021.59	105.81	70	130	
Ho	165	he	858740.35	1.8	825567	104.02	70	130	





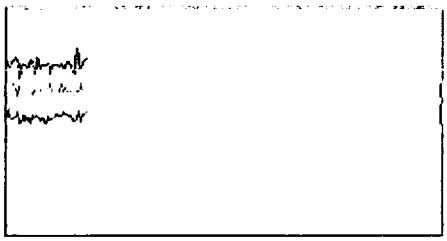


Current Signal

Operator Name	UserMet
Acq. Date-Time	2023-06-29 09:07:09
Instrument Name	G8421A SG18313296
Batch Folder	D:\Agilent\ICPMH\1\DATA\T06292023A.b

[noges]

Sensitivity



Ch	Mass	Range	Count	Avg Count	RSD%
1	7	5000	2758	2633	3.310
2	59	5000	4227	4106	2.403
3	89	10000	6272	6411	2.781
4	140	10000	6111	6088	2.277
5	205	5000	3889	3763	3.063
6	156/140	2	0.965 %	0.853 %	11.729
7	70/140	10	5.646 %	5.996 %	6.747

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	—	Nebulizer Gas	0.59 L/min	Dilution Gas	0.40 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.5 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Q1 Entrance	—	Cell Exit	-60 V
Extract 2	-209.0 V	Q1 Exit	—	Deflect	14.1 V
Omega Bias	-80 V	Cell Focus	—	Plate Bias	-36 V
Omega Lens	8.0 V	Cell Entrance	-40 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	—	Axial Acceleration	—
He Flow	0.0 mL/min	4th Gas Flow	—	OctP RF	200 V
H2 Flow	—	OctP Bias	-8.0 V	Energy Discrimination	4.5 V

QP Parameters

Mass Gain	124	Axis Gain	0.9990	QP Bias	-3.5 V
Mass Offset	124	Axis Offset	0.06		

Torch

Torch H	-0.2 mm	Torch V	0.3 mm		

EM

Discriminator	3.6 mV	Analog HV	2144 V	Pulse HV	1554 V

Meter

Current Signal

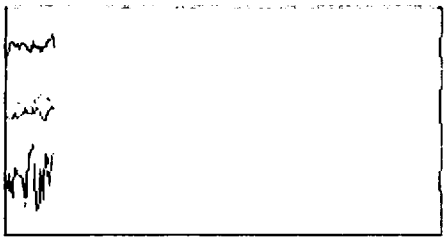
Name	Value	Unit
IF/BK Press	2.42E+2	Pa
Analyzer Press	1.46E-4	Pa
Water RF/WC/IF	1.16	L/min
Reflected Power	1	W
Forward Power	1550	W

Current Signal

Operator Name	UserMet
Acq. Date-Time	2023-06-29 09:07:56
Instrument Name	G8421A SG18313296
Batch Folder	D:\Agilent\ICPMH\1\DATA\T06292023A.b

[he]

Sensitivity



Ch	Mass	Range	Count	Avg Count	RSD%
1	59	2000	1206	1191	3.336
2	89	2000	931	908	4.317
3	140	5000	2762	2687	3.354
4	205	5000	2288	2275	4.083
5	156/140	1	0.362 %	0.258 %	33.366
6	51	50	31	27	24.060
7	56	10000	8167	8358	2.713
8	75	20	1	2	67.630
9	78	20	5	2	76.830

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	—	Nebulizer Gas	0.59 L/min	Dilution Gas	0.40 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.5 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Q1 Entrance	—	Cell Exit	-60 V
Extract 2	-209.0 V	Q1 Exit	—	Deflect	0.0 V
Omega Bias	-80 V	Cell Focus	—	Plate Bias	-60 V
Omega Lens	8.0 V	Cell Entrance	-40 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	—	Axial Acceleration	—
He Flow	4.4 mL/min	4th Gas Flow	—	OctP RF	200 V
H2 Flow	—	OctP Bias	-18.0 V	Energy Discrimination	4.5 V

QP Parameters

Mass Gain	124	Axis Gain	0.9990	QP Bias	-13.5 V
Mass Offset	124	Axis Offset	0.07		

Torch

Torch H	-0.2 mm	Torch V	0.3 mm		

EM

Discriminator	3.6 mV	Analog HV	2144 V	Pulse HV	1554 V

Meter

Current Signal

Name	Value	Unit
IF/BK Press	2.43E+2	Pa
Analyzer Press	1.83E-4	Pa
Water RF/WC/IF	1.16	L/min
Reflected Power	1	W
Forward Power	1550	W

US EPA Tune Check Report

Operator Name	UserMet
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\T06292023A.b
Acq. Date-Time	2023-06-29 09:14:09
Report Comment	---
Instrument Name	G8421A SG18313296

[nogas]

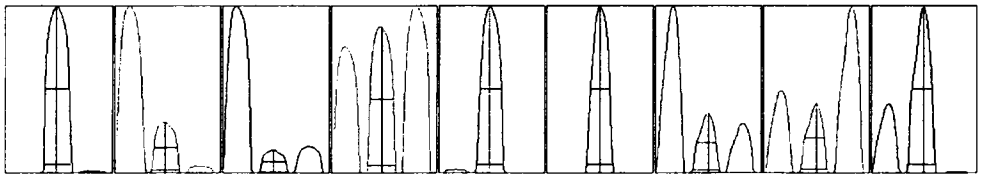
Sensitivity

Mass	Conc. [ug/l]	Count	CPS	RSD%	RSD% (Required)	RSD% (Flag)
9		3556	35564.56	0.677	5.000	
24		14982	149817.71	0.436	5.000	
25		1961	19614.42	0.612	5.000	
26		2312	23124.34	0.821	5.000	
59		21615	216152.77	0.817	5.000	
115		25520	255201.81	0.156	5.000	
206		5551	55508.70	0.538	5.000	
207		4634	46341.86	0.526	5.000	
208		11472	114720.12	0.275	5.000	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	3535	3594	3554	3563	3536
24	14951	15015	15036	15026	14881
25	1965	1950	1980	1960	1953
26	2305	2315	2320	2337	2285
59	21716	21829	21665	21438	21429
115	25570	25507	25466	25546	25512
206	5556	5593	5560	5518	5527
207	4608	4632	4672	4619	4640
208	11460	11490	11492	11497	11422

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	5645.44	8.95	8.90 - 9.10	
24	23545.91	23.95	23.90 - 24.10	
25	3119.35	24.95	24.90 - 25.10	
26	3605.45	25.95	25.90 - 26.10	

US EPA Tune Check Report

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
59	37346.47	58.95	58.90 - 59.10	
115	49902.69	115.05	114.90 - 115.10	
206	10859.42	206.05	205.90 - 206.10	
207	9160.82	207.00	206.90 - 207.10	
208	22149.61	208.00	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.66	0.785	0.850	
24	0.67	0.789	0.850	
25	0.66	0.784	0.850	
26	0.67	0.790	0.850	
59	0.60	0.772	0.850	
115	0.54	0.725	0.850	
206	0.55	0.750	0.850	
207	0.54	0.754	0.850	
208	0.56	0.778	0.850	

Integration Time [sec]	0.1
Acquisition Time [sec]	212.5
Y Axis	Linear

Tune Parameters

Plasma Parameters

Plasma Mode	—	Nebulizer Gas	0.59 L/min	Dilution Gas	0.40 L/min
RF Power	1550 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.10 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.5 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.0 V	Deflect	14.1 V
Extract 2	-209.0 V	Cell Entrance	-40 V	Plate Bias	-36 V
Omega Bias	-80 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	—	Energy Discrimination	4.5 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	—	OctP RF	200 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9990	QP Bias	-3.5 V
Mass Offset	124	Axis Offset	0.06		

Hardware Settings

Torch

Torch H	-0.2 mm	Torch V	0.3 mm		

EM

Discriminator	3.6 mV	Analog HV	2144 V	Pulse HV	1554 V

Calibration Blank Report

Sample Name	Rinse
File Name	001CALB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 09:50:04
Sample Type	CalBlk
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	001CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

File: SW06292023A
Batch: 29906
QC: 107918

Run OK. Na & V reported.
6/29/23 JL

QC Analyte Table

Name	Mass	ISTD	Tune	CPS	RSD
Be	9	165	nogas	80.00	21.7
Na	23	115	he	50833.46	2.0
Mg	24	115	he	591.13	14.2
Al	27	115	he	342.23	23.1
K	39	115	he	34774.89	1.2
Ca	44	115	he	745.58	3.1
V	51	115	he	102.22	16.4
Cr	52	115	he	683.35	10.6
Mn	55	115	he	686.69	10.5
Fe	56	115	he	14561.03	10.9
Co	59	115	he	76.67	21.7
Ni	60	115	he	143.33	12.9
Cu	65	115	he	3267.11	3.4
Zn	66	115	he	8876.28	17.8
As	75	115	he	10.67	28.6
Se	78	115	he	36.33	6.9
Mo	95	115	nogas	73.33	39.4
Ag	107	115	nogas	146.67	25.8
Cd	111	115	nogas	53.33	60.3
Sb	121	115	nogas	306.68	18.5
Ba	137	159	nogas	230.01	28.5
Tl	205	165	nogas	830.04	2.1
Pb	208	165	nogas	3483.59	10.5

6/30/23

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD
Sc	45	nogas	873397.10	3.5
Sc	45	he	51234.04	0.9
In	115	nogas	1083475.73	2.4
In	115	he	303975.31	1.5
Tb	159	nogas	1333514.43	2.3
Tb	159	he	815114.41	1.2
Ho	165	nogas	1277349.59	0.9
Ho	165	he	785469.06	0.9

Calibration Blank Report

Sample Name	Rinse
File Name	002CALB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 09:53:54
Sample Type	CalBlk
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	002CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	CPS	RSD
Be	9	165	nogas	53.33	43.3
Na	23	115	he	53426.11	1.6
Mg	24	115	he	501.12	11.4
Al	27	115	he	232.23	12.9
K	39	115	he	36704.17	1.8
Ca	44	115	he	600.01	2.9
V	51	115	he	48.89	31.5
Cr	52	115	he	688.91	6.4
Mn	55	115	he	562.24	9.7
Fe	56	115	he	11672.68	1.2
Co	59	115	he	116.67	10.3
Ni	60	115	he	166.67	12.5
Cu	65	115	he	3170.41	4.0
Zn	66	115	he	7778.93	16.6
As	75	115	he	8.00	25.0
Se	78	115	he	42.00	15.6
Mo	95	115	nogas	30.00	33.3
Ag	107	115	nogas	373.34	3.1
Cd	111	115	nogas	16.67	91.7
Sb	121	115	nogas	183.34	24.6
Ba	137	159	nogas	153.33	7.5
Tl	205	165	nogas	456.69	11.0
Pb	208	165	nogas	3410.25	6.9

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD
Sc	45	nogas	853430.33	0.8
Sc	45	he	50299.65	0.9
In	115	nogas	1072515.57	1.1
In	115	he	305929.02	0.5
Tb	159	nogas	1328832.90	1.1
Tb	159	he	818526.95	1.1
Ho	165	nogas	1253492.77	1.8
Ho	165	he	792098.94	0.6

Calibration Blank Report

Sample Name	Cal Blk V-397981
File Name	003CALB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 09:57:43
Sample Type	CalBlk
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	CPS	RSD
Be	9	165	nogas	80.00	37.5
Na	23	115	he	36229.12	0.9
Mg	24	115	he	378.90	16.6
Al	27	115	he	137.78	25.2
K	39	115	he	30986.12	0.2
Ca	44	115	he	297.78	10.8
V	51	115	he	345.56	2.9
Cr	52	115	he	1076.71	1.9
Mn	55	115	he	221.12	4.8
Fe	56	115	he	10937.67	1.3
Co	59	115	he	61.11	11.4
Ni	60	115	he	63.33	36.8
Cu	65	115	he	1010.05	20.1
Zn	66	115	he	7501.03	23.6
As	75	115	he	16.67	6.9
Se	78	115	he	35.67	3.2
Mo	95	115	nogas	20.00	86.6
Ag	107	115	nogas	40.00	43.3
Cd	111	115	nogas	76.67	19.9
Sb	121	115	nogas	353.34	5.9
Ba	137	159	nogas	93.33	44.6
Tl	205	165	nogas	423.35	11.7
Pb	208	165	nogas	1713.41	7.9

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD
Sc	45	nogas	862253.68	2.6
Sc	45	he	49835.65	1.3
In	115	nogas	1063443.37	1.2
In	115	he	294344.35	0.8
Tb	159	nogas	1326055.34	1.3
Tb	159	he	610680.28	1.1
Ho	165	nogas	1252276.10	1.3
Ho	165	he	786015.96	0.5

Calibration Standard Report

Sample Name	Cal 1 V-397982
File Name	004CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 10:01:30
Sample Type	CalStd
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	CPS	RSD
Be	9	165	nogas	2806.98	8.6
Na	23	115	he	96827.97	0.6
Mg	24	115	he	30367.92	0.6
Al	27	115	he	3909.44	4.5
Ca	44	115	he	1719.00	4.7
V	51	115	he	3479.34	2.5
Cr	52	115	he	4375.15	4.1
Mn	55	115	he	2512.46	7.5
Fe	56	115	he	341729.23	1.5
Co	59	115	he	6517.11	2.4
Ni	60	115	he	1757.90	7.2
Zn	66	115	he	8564.95	14.5
As	75	115	he	520.68	6.1
Se	78	115	he	185.00	4.2
Mo	95	115	nogas	4140.70	11.2
Ag	107	115	nogas	10334.12	3.4
Cd	111	115	nogas	2023.52	5.7
Sb	121	115	nogas	10631.06	1.9
Ba	137	159	nogas	3087.07	4.3
Tl	205	165	nogas	13874.47	1.5
Pb	208	165	nogas	21620.95	1.5

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	860601.70	1.3	862253.68	99.81	70	130	
Sc	45	he	49980.70	0.7	49835.65	100.29	70	130	
In	115	nogas	1080156.79	1.9	1063443.37	101.57	70	130	
In	115	he	296256.46	1.0	294344.35	100.65	70	130	
Tb	159	nogas	1309480.29	2.7	1326055.34	98.75	70	130	
Tb	159	he	621168.86	0.3	610680.28	101.29	70	130	
Ho	165	nogas	1266927.90	1.0	1252276.1	101.17	70	130	
Ho	165	he	794238.39	1.0	786015.96	101.05	70	130	

Calibration Standard Report

Sample Name	Cal 2 V-397983
File Name	005CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 10:05:18
Sample Type	CalStd
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	CPS	RSD
Be	9	165	nogas	25746.71	1.0
Na	23	115	he	604058.97	0.9
Mg	24	115	he	293605.01	1.2
Al	27	115	he	35884.32	3.7
Ca	44	115	he	13976.98	1.1
V	51	115	he	31858.42	1.2
Cr	52	115	he	38435.95	1.5
Mn	55	115	he	21060.36	2.3
Fe	56	115	he	3113102.79	1.5
Co	59	115	he	63009.52	0.3
Ni	60	115	he	16883.61	1.0
Zn	66	115	he	14254.13	12.5
As	75	115	he	4887.55	6.2
Se	78	115	he	1521.09	4.1
Mo	95	115	nogas	39099.89	1.0
Ag	107	115	nogas	102544.64	3.0
Cd	111	115	nogas	19891.60	2.6
Sb	121	115	nogas	80762.85	3.6
Ba	137	159	nogas	29409.49	1.6
Tl	205	165	nogas	130145.28	1.1
Pb	208	165	nogas	194678.83	1.9

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	865672.38	2.7	862253.68	100.4	70	130	
Sc	45	he	50254.97	0.2	49835.65	100.84	70	130	
In	115	nogas	1075979.39	1.1	1063443.37	101.18	70	130	
In	115	he	299895.25	0.8	294344.35	101.89	70	130	
Tb	159	nogas	1307786.15	2.1	1326055.34	98.62	70	130	
Tb	159	he	823738.48	0.7	810680.28	101.61	70	130	
Ho	165	nogas	1257329.51	2.0	1252276.1	100.4	70	130	
Ho	165	he	796839.31	0.1	786015.96	101.38	70	130	

Calibration Standard Report

Sample Name	Cal 3 V-397984
File Name	006CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 10:09:05
Sample Type	CalStd
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	CPS	RSD
Be	9	165	nogas	52141.59	0.9
Na	23	115	he	1192998.67	1.8
Mg	24	115	he	581501.99	1.6
Al	27	115	he	68980.60	1.2
Ca	44	115	he	26938.01	2.7
V	51	115	he	62513.20	0.5
Cr	52	115	he	75578.79	2.0
Mn	55	115	he	41283.02	1.2
Fe	56	115	he	6145425.03	1.4
Co	59	115	he	124493.71	1.5
Ni	60	115	he	33179.46	1.2
Zn	66	115	he	19590.53	2.6
As	75	115	he	9387.89	0.5
Se	78	115	he	2974.99	3.1
Mo	95	115	nogas	80266.20	1.9
Ag	107	115	nogas	203774.26	1.0
Cd	111	115	nogas	39043.58	1.8
Sb	121	115	nogas	156069.97	1.8
Ba	137	159	nogas	57578.64	1.4
Tl	205	165	nogas	266961.11	1.9
Pb	208	165	nogas	383147.65	1.6

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	898934.13	1.3	862253.68	104.25	70	130	
Sc	45	he	49204.75	1.5	49835.65	98.73	70	130	
In	115	nogas	1073390.82	2.0	1063443.37	100.94	70	130	
In	115	he	296764.53	0.3	294344.35	100.82	70	130	
Tb	159	nogas	1345442.90	0.6	1326055.34	101.46	70	130	
Tb	159	he	818487.21	0.8	810680.28	100.72	70	130	
Ho	165	nogas	1255082.90	1.6	1252276.1	100.22	70	130	
Ho	165	he	789463.37	1.0	786015.96	100.44	70	130	

Calibration Standard Report

Sample Name	Cal 4 V-397985
File Name	007CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 10:12:51
Sample Type	CalStd
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	CPS	RSD
Be	9	165	nogas	260122.92	0.7
Na	23	115	he	5601113.67	1.5
Mg	24	115	he	2886981.62	0.8
Al	27	115	he	340853.85	1.5
Ca	44	115	he	131254.05	0.8
V	51	115	he	309113.10	1.6
Cr	52	115	he	374245.03	1.2
Mn	55	115	he	203789.21	1.6
Fe	56	115	he	30322582.13	2.0
Co	59	115	he	608987.32	1.0
Ni	60	115	he	163503.26	1.1
Zn	66	115	he	71480.87	1.6
As	75	115	he	46473.24	2.5
Se	78	115	he	14703.83	1.3
Mo	95	115	nogas	394608.24	1.6
Ag	107	115	nogas	991669.26	1.2
Cd	111	115	nogas	192528.32	0.6
Sb	121	115	nogas	769225.48	1.2
Ba	137	159	nogas	284845.44	0.6
Tl	205	165	nogas	1409421.70	1.4
Pb	208	165	nogas	1877351.30	2.1

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	896010.51	2.1	862253.68	103.91	70	130	
Sc	45	he	49472.27	1.2	49835.65	99.27	70	130	
In	115	nogas	1057485.21	2.2	1063443.37	99.44	70	130	
In	115	he	292629.86	0.8	294344.35	99.42	70	130	
Tb	159	nogas	1317231.91	2.1	1326055.34	99.33	70	130	
Tb	159	he	814326.67	0.2	810680.28	100.45	70	130	
Ho	165	nogas	1260415.09	1.1	1252276.1	100.65	70	130	
Ho	165	he	789063.23	0.3	786015.96	100.39	70	130	

Calibration Standard Report

Sample Name	Cal 5 V-397986
File Name	008CALS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 10:16:34
Sample Type	CalStd
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	CPS	RSD
Be	9	165	nogas	513135.41	1.4
Na	23	115	he	10758655.40	1.2
Mg	24	115	he	5622653.25	1.3
Al	27	115	he	662636.33	1.6
Ca	44	115	he	255270.01	1.7
V	51	115	he	597571.19	0.6
Cr	52	115	he	722457.30	1.6
Mn	55	115	he	394430.80	1.5
Fe	56	115	he	57879244.37	2.0
Co	59	115	he	1201866.72	0.9
Ni	60	115	he	315948.63	1.4
Zn	66	115	he	133934.76	1.9
As	75	115	he	91163.99	0.9
Se	78	115	he	28430.87	0.6
Mo	95	115	nogas	775152.38	1.4
Ag	107	115	nogas	1970320.18	1.3
Cd	111	115	nogas	374432.35	1.0
Sb	121	115	nogas	1520209.46	1.8
Ba	137	159	nogas	550015.15	0.3
Tl	205	165	nogas	2744138.08	1.4
Pb	208	165	nogas	3694928.07	1.4

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	868144.86	2.3	862253.68	100.68	70	130	
Sc	45	he	47727.36	0.9	49835.65	95.77	70	130	
In	115	nogas	1032311.35	1.5	1063443.37	97.07	70	130	
In	115	he	285245.32	0.4	294344.35	96.91	70	130	
Tb	159	nogas	1305587.74	0.9	1326055.34	98.46	70	130	
Tb	159	he	801371.31	0.7	810680.28	98.85	70	130	
Ho	165	nogas	1237278.00	2.3	1252276.1	98.8	70	130	
Ho	165	he	777984.17	0.6	786015.96	98.98	70	130	

Initial Calibration Verification (ICV) Report

Sample Name	ICV V-397987
File Name	009_ICV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 10:20:14
Sample Type	ICV
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	ExpVal	% Rec	%Low	%High	QC Flag
Be	9	165	nogas	48.773	ppb	0.5	250463.64	50	97.55	90	110	
Na	23	115	he	4757.221	ppb	2.0	5227347.85	5000	95.14	90	110	
Mg	24	115	he	4835.260	ppb	3.9	2760089.96	5000	96.71	90	110	
Al	27	115	he	5085.644	ppb	2.8	1140724.92	5000	101.71	90	110	
K	39	115	he	4901.684	ppb	2.5	2502516.36	5000	98.03	90	110	
Ca	44	115	he	4775.818	ppb	1.8	123934.51	5000	95.52	90	110	
V	51	115	he	47.384	ppb	1.5	288040.20	50	94.77	90	110	
Cr	52	115	he	47.872	ppb	1.5	352156.92	50	95.74	90	110	
Mn	55	115	he	48.286	ppb	2.1	193690.32	50	96.57	90	110	
Fe	56	115	he	4857.395	ppb	1.3	28666621.08	5000	97.15	90	110	
Co	59	115	he	47.145	ppb	1.4	573752.10	50	94.29	90	110	
Ni	60	115	he	48.432	ppb	1.3	155630.63	50	96.86	90	110	
Cu	65	115	he	48.366	ppb	1.2	207390.38	50	96.73	90	110	
Zn	66	115	he	46.745	ppb	1.9	67257.68	50	93.49	90	110	
As	75	115	he	48.516	ppb	1.5	44843.18	50	97.03	90	110	
Se	78	115	he	50.694	ppb	2.4	2961.32	50	101.39	90	110	
Mo	95	115	nogas	47.837	ppb	3.0	377114.88	50	95.67	90	110	
Ag	107	115	nogas	9.805	ppb	2.9	196072.95	10	98.05	90	110	
Cd	111	115	nogas	48.523	ppb	1.6	185212.34	50	97.05	90	110	
Sb	121	115	nogas	47.622	ppb	2.5	735548.61	50	95.24	90	110	
Ba	137	159	nogas	49.180	ppb	2.2	267933.80	50	98.36	90	110	
Tl	205	165	nogas	46.718	ppb	1.0	1285867.51	50	93.44	90	110	
Pb	208	165	nogas	48.884	ppb	1.2	1809237.80	50	97.77	90	110	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	862530.72	2.7	862253.68	100.03	70	130	
Sc	45	he	47810.92	0.3	49835.65	95.94	70	130	
In	115	nogas	1051331.48	1.2	1063443.37	98.86	70	130	
In	115	he	289528.42	0.1	294344.35	98.36	70	130	
Tb	159	nogas	1285968.31	1.0	1326055.34	96.98	70	130	
Tb	159	he	811038.84	0.4	810680.28	100.04	70	130	
Ho	165	nogas	1238806.72	0.3	1252276.1	98.92	70	130	
Ho	165	he	786892.59	0.0	786015.96	100.11	70	130	

Sample Report

Sample Name	LLICV V-397992
File Name	010LICV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 10:23:47
Sample Type	Sample
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	0.431	ppb	9.5	2276.88	500	
Na	23	115	he	226.990	ppb	0.3	283098.83	200000	
Mg	24	115	he	231.676	ppb	1.4	132482.36	200000	
Al	27	115	he	95.962	ppb	2.3	21637.75	165000	
K	39	115	he	225.609	ppb	1.1	144129.46	200000	
Ca	44	115	he	225.899	ppb	1.3	6135.81	200000	
V	51	115	he	0.899	ppb	2.4	5792.33	500	
Cr	52	115	he	0.918	ppb	1.3	7781.08	500	
Mn	55	115	he	2.857	ppb	2.8	11654.90	2500	
Fe	56	115	he	144.898	ppb	1.1	864803.47	200000	
Co	59	115	he	0.918	ppb	0.9	11216.79	500	
Ni	60	115	he	1.408	ppb	5.3	4580.78	500	
Cu	65	115	he	4.622	ppb	2.4	20702.42	2500	
Zn	66	115	he	7.174	ppb	13.4	16552.17	2500	
As	75	115	he	0.947	ppb	5.9	890.03	500	
Se	78	115	he	4.860	ppb	4.4	315.33	2500	
Mo	95	115	nogas	0.962	ppb	4.1	7505.56	500	
Ag	107	115	nogas	0.468	ppb	2.2	9273.35	500	
Cd	111	115	nogas	0.939	ppb	5.5	3610.54	500	
Sb	121	115	nogas	1.455	ppb	2.7	22519.20	500	
Ba	137	159	nogas	2.355	ppb	5.6	13009.99	2500	
Tl	205	165	nogas	1.170	ppb	5.5	32411.89	500	
Pb	208	165	nogas	1.415	ppb	0.6	53668.55	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	832721.37	0.7	862253.68	96.57	70	130	
Sc	45	he	47933.59	0.2	49835.65	96.18	70	130	
In	115	nogas	1037789.05	2.0	1063443.37	97.59	70	130	
In	115	he	289261.26	0.6	294344.35	98.27	70	130	
Tb	159	nogas	1295061.36	0.3	1326055.34	97.66	70	130	
Tb	159	he	809138.01	0.8	810680.28	99.81	70	130	
Ho	165	nogas	1231003.29	1.1	1252276.1	98.3	70	130	
Ho	165	he	782359.87	0.5	786015.96	99.53	70	130	

Initial Calibration Blank (ICB) Report

Sample Name	ICB V-397988
File Name	011_ICB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 10:27:25
Sample Type	ICB
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	Limit	QC Flag
Be	9	165	nogas	0.007	ppb	28.3	113.33	0.5	
Na	23	115	he	-0.648	ppb	N/A	34686.46	250	
Mg	24	115	he	0.652	ppb	14.0	740.02	250	
Al	27	115	he	0.358	ppb	21.6	214.45	100	
K	39	115	he	-1.711	ppb	N/A	29410.60	250	
Ca	44	115	he	-0.841	ppb	N/A	274.45	250	
V	51	115	he	0.010	ppb	59.1	397.79	0.5	
Cr	52	115	he	-0.021	ppb	N/A	898.93	1	
Mn	55	115	he	0.017	ppb	27.7	284.45	3	
Fe	56	115	he	0.964	ppb	4.3	16332.97	150	
Co	59	115	he	0.000	ppb	N/A	55.55	1	
Ni	60	115	he	0.012	ppb	46.4	101.11	1.5	
Cu	65	115	he	-0.014	ppb	N/A	930.05	5	
Zn	66	115	he	-1.817	ppb	N/A	5007.62	10	
As	75	115	he	-0.002	ppb	N/A	14.00	0.5	
Se	78	115	he	0.020	ppb	223.6	36.00	5	
Mo	95	115	nogas	0.006	ppb	13.6	66.67	0.5	
Ag	107	115	nogas	0.002	ppb	65.4	80.00	0.5	
Cd	111	115	nogas	0.000	ppb	N/A	73.33	1	
Sb	121	115	nogas	0.013	ppb	14.2	543.36	1.5	
Ba	137	159	nogas	0.006	ppb	75.2	123.33	2.5	
Tl	205	165	nogas	0.042	ppb	21.8	1556.80	1	
Pb	208	165	nogas	-0.006	ppb	N/A	1473.40	1.5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	833002.07	0.5	862253.68	96.61	70	130	
Sc	45	he	47591.37	1.9	49835.65	95.5	70	130	
In	115	nogas	1038865.30	1.7	1063443.37	97.69	70	130	
In	115	he	287507.95	0.3	294344.35	97.68	70	130	
Tb	159	nogas	1292284.75	0.6	1326055.34	97.45	70	130	
Tb	159	he	802336.27	0.2	810680.28	98.97	70	130	
Ho	165	nogas	1232420.58	1.9	1252276.1	98.41	70	130	
Ho	165	he	771291.11	0.4	786015.96	98.13	70	130	

Sample Report

Sample Name	ICSA V-397989
File Name	012SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 10:31:03
Sample Type	Sample
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Fail
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	0.023	ppb	4.0	193.34	500	
Na	23	115	he	119004.969	ppb	1.9	116890653.13	200000	
Mg	24	115	he	46495.237	ppb	0.8	23879570.16	200000	
Al	27	115	he	48759.894	ppb	2.9	9839780.16	165000	
K	39	115	he	46386.348	ppb	1.1	21076993.61	200000	
Ca	44	115	he	141286.221	ppb	1.5	3291602.65	200000	
V	51	115	he	-0.007	ppb	N/A	267.78	500	
Cr	52	115	he	0.839	ppb	0.6	6492.64	500	
Mn	55	115	he	1.568	ppb	5.2	5849.04	2500	
Fe	56	115	he	119375.295	ppb	2.3	633687619.26	200000	
Co	59	115	he	1.045	ppb	0.3	11500.35	500	
Ni	60	115	he	1.291	ppb	2.6	3786.09	500	
Cu	65	115	he	1.054	ppb	4.1	4940.96	2500	
Zn	66	115	he	0.617	ppb	109.7	7348.67	2500	
As	75	115	he	0.200	ppb	6.2	180.67	500	
Se	78	115	he	0.260	ppb	81.3	45.00	2500	
Mo	95	115	nogas	976.297	ppb	2.7	7118825.73	500	>LDR
Ag	107	115	nogas	0.039	ppb	18.6	753.37	500	
Cd	111	115	nogas	0.805	ppb	4.0	2910.37	500	
Sb	121	115	nogas	0.141	ppb	3.7	2340.25	500	
Ba	137	159	nogas	0.791	ppb	5.2	4387.47	2500	
Tl	205	165	nogas	0.019	ppb	12.1	940.05	500	
Pb	208	165	nogas	1.046	ppb	1.7	39838.34	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	858464.26	3.3	862253.68	99.56	70	130	
Sc	45	he	45312.72	0.2	49835.65	90.92	70	130	
In	115	nogas	972436.95	1.2	1063443.37	91.44	70	130	
In	115	he	260535.10	1.0	294344.35	88.51	70	130	
Tb	159	nogas	1281509.51	1.3	1326055.34	96.64	70	130	
Tb	159	he	771129.40	0.6	810680.28	95.12	70	130	
Ho	165	nogas	1222812.48	0.7	1252276.1	97.65	70	130	
Ho	165	he	755187.54	0.3	786015.96	96.08	70	130	

Sample Report

Sample Name	Rinse
File Name	013SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 10:34:39
Sample Type	Sample
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	-0.001	ppb	N/A	73.33	500	
Na	23	115	he	25.308	ppb	5.8	63412.16	200000	
Mg	24	115	he	0.621	ppb	29.9	728.91	200000	
Al	27	115	he	0.527	ppb	5.3	254.45	165000	
K	39	115	he	3.191	ppb	9.0	32172.12	200000	
Ca	44	115	he	5.640	ppb	16.1	440.01	200000	
V	51	115	he	-0.049	ppb	N/A	42.22	500	
Cr	52	115	he	-0.064	ppb	N/A	588.90	500	
Mn	55	115	he	0.075	ppb	6.0	518.90	2500	
Fe	56	115	he	5.398	ppb	2.6	42716.24	200000	
Co	59	115	he	0.003	ppb	51.7	100.00	500	
Ni	60	115	he	0.025	ppb	31.8	144.45	500	
Cu	65	115	he	0.454	ppb	7.9	2937.04	2500	
Zn	66	115	he	-1.714	ppb	N/A	5194.36	2500	
As	75	115	he	-0.011	ppb	N/A	6.00	500	
Se	78	115	he	-0.021	ppb	N/A	34.00	2500	
Mo	95	115	nogas	0.144	ppb	15.9	1140.07	500	
Ag	107	115	nogas	0.030	ppb	7.5	626.69	500	
Cd	111	115	nogas	-0.016	ppb	N/A	13.33	500	
Sb	121	115	nogas	-0.005	ppb	N/A	273.34	500	
Ba	137	159	nogas	0.001	ppb	63.4	96.67	2500	
Tl	205	165	nogas	0.022	ppb	10.4	996.72	500	
Pb	208	165	nogas	0.035	ppb	8.4	2913.51	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	808652.93	1.6	862253.68	93.78	70	130	
Sc	45	he	46419.79	2.7	49835.65	93.15	70	130	
In	115	nogas	1039218.79	1.4	1063443.37	97.72	70	130	
In	115	he	290267.01	1.0	294344.35	98.61	70	130	
Tb	159	nogas	1295880.16	3.7	1326055.34	97.72	70	130	
Tb	159	he	806163.86	1.5	810680.28	99.44	70	130	
Ho	165	nogas	1213108.71	2.4	1252276.1	96.87	70	130	
Ho	165	he	778175.61	1.0	786015.96	99	70	130	

Linear Range Sample (LRS) Report

Sample Name	LRS V-397990
File Name	014_LRS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 10:38:17
Sample Type	LRS
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Fail
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	ExpVal	%Rec	%Low	%High	QC Flag
Be	9	165	nogas	508.823	ppb	2.8	2511552.77	500	101.76	90	110	
Na	23	115	he	200331.283	ppb	1.3	196688481.07	200000	100.17	90	110	
Mg	24	115	he	197708.014	ppb	1.4	101496331.52	200000	98.85	90	110	
Al	27	115	he	166391.713	ppb	1.2	33566466.44	165000	100.84	90	110	
K	39	115	he	192484.090	ppb	0.8	87339960.97	200000	96.24	90	110	
Ca	44	115	he	193667.771	ppb	1.4	4510334.13	200000	96.83	90	110	
V	51	115	he	549.881	ppb	0.4	3003549.60	500	109.98	90	110	
Cr	52	115	he	538.531	ppb	1.1	3553812.92	500	107.71	90	110	
Mn	55	115	he	2461.369	ppb	2.3	8872755.76	2500	98.45	90	110	
Fe	56	115	he	196071.376	ppb	2.0	1040518251.98	200000	98.04	90	110	
Co	59	115	he	490.941	ppb	1.7	5373242.70	500	98.19	90	110	
Ni	60	115	he	503.848	ppb	0.9	1455807.51	500	100.77	90	110	
Cu	65	115	he	2577.608	ppb	0.7	9895287.14	2500	103.1	90	110	
Zn	66	115	he	2555.183	ppb	0.9	2951200.37	2500	102.21	90	110	
As	75	115	he	515.508	ppb	0.8	428468.12	500	103.1	90	110	
Se	78	115	he	2482.698	ppb	1.6	128938.45	2500	99.31	90	110	
Mo	95	115	nogas	509.880	ppb	1.7	3651705.05	500	101.98	90	110	
Ag	107	115	nogas	230.656	ppb	2.0	4189443.38	500	46.13	90	110	> +\- 10%
Cd	111	115	nogas	478.583	ppb	1.1	1659085.60	500	95.72	90	110	
Sb	121	115	nogas	479.640	ppb	1.9	6726863.65	500	95.93	90	110	
Ba	137	159	nogas	2387.583	ppb	1.1	12654558.56	2500	95.5	90	110	
Tl	205	165	nogas	463.529	ppb	1.9	12265267.32	500	92.71	90	110	
Pb	208	165	nogas	2473.119	ppb	1.2	87943559.11	2500	98.92	90	110	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	856292.54	1.2	862253.68	99.31	70	130	
In	115	nogas	955122.34	2.2	1063443.37	89.81	70	130	
Tb	159	nogas	1251372.90	1.2	1326055.34	94.37	70	130	
Ho	165	nogas	1191474.88	2.0	1252276.1	95.14	70	130	
Sc	45	he	49365.33	1.7	49835.65	99.06	70	130	
In	115	he	260434.02	1.4	294344.35	88.48	70	130	
Tb	159	he	747625.84	0.5	810680.28	92.22	70	130	
Ho	165	he	733647.11	0.8	786015.96	93.34	70	130	

Sample Report

Sample Name	Rinse
File Name	015SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 10:41:46
Sample Type	Sample
Total Dilution	1.0000
Comment	--
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	0.054	ppb	17.0	356.68	500	
Na	23	115	he	32.301	ppb	2.8	73559.29	200000	
Mg	24	115	he	2.141	ppb	9.8	1654.55	200000	
Al	27	115	he	1.500	ppb	11.6	490.01	165000	
K	39	115	he	7.103	ppb	24.2	35344.07	200000	
Ca	44	115	he	7.340	ppb	6.0	501.12	200000	
V	51	115	he	-0.039	ppb	N/A	105.56	500	
Cr	52	115	he	-0.064	ppb	N/A	612.24	500	
Mn	55	115	he	0.110	ppb	13.1	684.47	2500	
Fe	56	115	he	6.269	ppb	1.0	49541.95	200000	
Co	59	115	he	0.009	ppb	13.3	176.67	500	
Ni	60	115	he	0.033	ppb	10.9	175.56	500	
Cu	65	115	he	0.470	ppb	1.5	3113.73	2500	
Zn	66	115	he	-2.087	ppb	N/A	4876.44	2500	
As	75	115	he	0.038	ppb	32.9	53.33	500	
Se	78	115	he	0.288	ppb	9.2	53.67	2500	
Mo	95	115	nogas	0.091	ppb	20.0	736.70	500	
Ag	107	115	nogas	2.365	ppb	9.3	47253.60	500	
Cd	111	115	nogas	-0.010	ppb	N/A	36.67	500	
Sb	121	115	nogas	0.139	ppb	2.5	2493.61	500	
Ba	137	159	nogas	0.037	ppb	38.9	286.68	2500	
Tl	205	165	nogas	0.170	ppb	4.7	5087.78	500	
Pb	208	165	nogas	0.165	ppb	3.7	7764.41	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	857495.01	1.4	862253.68	99.45	70	130	
Sc	45	he	48807.70	1.4	49835.65	97.94	70	130	
In	115	nogas	1048913.20	1.6	1063443.37	98.63	70	130	
In	115	he	300451.67	0.6	294344.35	102.07	70	130	
Tb	159	nogas	1253030.32	1.6	1326055.34	94.49	70	130	
Tb	159	he	816463.72	0.1	810680.28	100.71	70	130	
Ho	165	nogas	1236316.99	2.2	1252276.1	98.73	70	130	
Ho	165	he	786476.90	0.3	786015.96	100.06	70	130	

Sample Report

Sample Name	Rinse
File Name	016SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 10:45:25
Sample Type	Sample
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	0.007	ppb	32.7	113.33	500	
Na	23	115	he	22.219	ppb	4.1	62528.48	200000	
Mg	24	115	he	1.013	ppb	17.3	992.26	200000	
Al	27	115	he	0.544	ppb	21.7	268.89	165000	
K	39	115	he	3.913	ppb	15.5	33882.83	200000	
Ca	44	115	he	3.975	ppb	33.6	413.34	200000	
V	51	115	he	-0.047	ppb	N/A	57.78	500	
Cr	52	115	he	-0.062	ppb	N/A	627.80	500	
Mn	55	115	he	0.085	ppb	12.4	583.35	2500	
Fe	56	115	he	2.711	ppb	0.7	27926.78	200000	
Co	59	115	he	0.004	ppb	12.1	118.89	500	
Ni	60	115	he	0.026	ppb	30.0	152.22	500	
Cu	65	115	he	0.442	ppb	12.6	3007.05	2500	
Zn	66	115	he	-1.997	ppb	N/A	5029.84	2500	
As	75	115	he	0.002	ppb	193.0	18.67	500	
Se	78	115	he	0.171	ppb	79.3	47.00	2500	
Mo	95	115	nogas	0.024	ppb	16.8	206.67	500	
Ag	107	115	nogas	1.894	ppb	8.2	36931.12	500	
Cd	111	115	nogas	-0.015	ppb	N/A	20.00	500	
Sb	121	115	nogas	0.031	ppb	12.0	806.71	500	
Ba	137	159	nogas	0.015	ppb	51.7	170.00	2500	
Tl	205	165	nogas	0.054	ppb	3.2	1850.17	500	
Pb	208	165	nogas	0.101	ppb	3.0	5320.53	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	835424.00	1.7	862253.68	96.89	70	130	
Sc	45	he	49880.36	1.1	49835.65	100.09	70	130	
In	115	nogas	1023568.38	1.7	1063443.37	96.25	70	130	
In	115	he	302274.97	0.8	294344.35	102.69	70	130	
Tb	159	nogas	1254663.83	0.8	1326055.34	94.62	70	130	
Tb	159	he	809416.64	1.0	810680.28	99.84	70	130	
Ho	165	nogas	1209708.29	0.4	1252276.1	96.6	70	130	
Ho	165	he	779456.46	0.2	786015.96	99.17	70	130	

Sample Report

Sample Name	Rinse
File Name	017SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 10:49:03
Sample Type	Sample
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	0.016	ppb	30.9	156.67	500	
Na	23	115	he	17.820	ppb	3.5	58327.32	200000	
Mg	24	115	he	0.984	ppb	13.5	988.93	200000	
Al	27	115	he	0.606	ppb	24.9	287.78	165000	
K	39	115	he	2.885	ppb	42.0	33815.95	200000	
Ca	44	115	he	4.535	ppb	18.3	434.45	200000	
V	51	115	he	-0.044	ppb	N/A	76.67	500	
Cr	52	115	he	-0.061	ppb	N/A	650.02	500	
Mn	55	115	he	0.070	ppb	10.0	526.68	2500	
Fe	56	115	he	1.846	ppb	3.4	22925.49	200000	
Co	59	115	he	0.005	ppb	24.6	132.22	500	
Ni	60	115	he	0.031	ppb	11.8	172.23	500	
Cu	65	115	he	0.421	ppb	11.3	2957.05	2500	
Zn	66	115	he	-1.975	ppb	N/A	5136.56	2500	
As	75	115	he	-0.003	ppb	N/A	14.00	500	
Se	78	115	he	0.068	ppb	85.6	41.33	2500	
Mo	95	115	nogas	0.017	ppb	47.4	146.67	500	
Ag	107	115	nogas	1.968	ppb	13.5	37887.68	500	
Cd	111	115	nogas	-0.014	ppb	N/A	23.33	500	
Sb	121	115	nogas	0.008	ppb	56.5	456.68	500	
Ba	137	159	nogas	0.012	ppb	48.4	153.33	2500	
Tl	205	165	nogas	0.029	ppb	11.4	1200.08	500	
Pb	208	165	nogas	0.084	ppb	8.9	4697.10	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	832621.08	4.3	862253.68	96.56	70	130	
Sc	45	he	49732.01	0.6	49835.65	99.79	70	130	
In	115	nogas	1013016.48	2.9	1063443.37	95.26	70	130	
In	115	he	306607.11	1.7	294344.35	104.17	70	130	
Tb	159	nogas	1266107.79	1.9	1326055.34	95.48	70	130	
Tb	159	he	821852.17	0.7	810680.28	101.38	70	130	
Ho	165	nogas	1209356.54	2.9	1252276.1	96.57	70	130	
Ho	165	he	796646.93	0.6	786015.96	101.35	70	130	

Sample Report

Sample Name	Rinse
File Name	018SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 10:52:39
Sample Type	Sample
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	0.017	ppb	43.2	160.00	500	
Na	23	115	he	18.326	ppb	7.3	58044.03	200000	
Mg	24	115	he	1.077	ppb	3.7	1030.04	200000	
Al	27	115	he	0.635	ppb	19.5	290.00	165000	
K	39	115	he	4.236	ppb	24.0	34026.41	200000	
Ca	44	115	he	5.263	ppb	25.1	447.79	200000	
V	51	115	he	-0.048	ppb	N/A	48.89	500	
Cr	52	115	he	-0.063	ppb	N/A	621.13	500	
Mn	55	115	he	0.094	ppb	7.4	621.13	2500	
Fe	56	115	he	1.673	ppb	0.9	21522.16	200000	
Co	59	115	he	0.005	ppb	24.2	132.22	500	
Ni	60	115	he	0.018	ppb	29.1	126.67	500	
Cu	65	115	he	0.441	ppb	3.1	3000.38	2500	
Zn	66	115	he	-2.365	ppb	N/A	4531.89	2500	
As	75	115	he	-0.005	ppb	N/A	12.67	500	
Se	78	115	he	0.012	ppb	1153.9	37.33	2500	
Mo	95	115	nogas	0.012	ppb	11.0	110.00	500	
Ag	107	115	nogas	1.640	ppb	8.8	32326.08	500	
Cd	111	115	nogas	-0.015	ppb	N/A	16.67	500	
Sb	121	115	nogas	0.002	ppb	337.8	370.01	500	
Ba	137	159	nogas	0.011	ppb	76.4	150.00	2500	
Tl	205	165	nogas	0.022	ppb	15.6	996.73	500	
Pb	208	165	nogas	0.069	ppb	10.5	4140.35	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	835910.48	1.3	862253.68	96.94	70	130	
Sc	45	he	49213.57	0.2	49835.65	98.75	70	130	
In	115	nogas	1035101.58	1.3	1063443.37	97.33	70	130	
In	115	he	302062.03	0.6	294344.35	102.62	70	130	
Tb	159	nogas	1276928.08	0.3	1326055.34	96.3	70	130	
Tb	159	he	809834.97	0.6	810680.28	99.9	70	130	
Ho	165	nogas	1209587.20	0.2	1252276.1	96.59	70	130	
Ho	165	he	778678.28	0.0	786015.96	99.07	70	130	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV V-397991
File Name	019_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 10:56:17
Sample Type	CCV
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	ExpVal	% Rec	%Low	%High	QC Flag
Be	9	165	nogas	48.295	ppb	0.8	249853.64	50	96.59	90	110	
Na	23	115	he	5030.271	ppb	1.2	5435222.84	5000	100.61	90	110	
Mg	24	115	he	5026.184	ppb	0.6	2822269.75	5000	100.52	90	110	
Al	27	115	he	1481.075	ppb	2.2	322482.73	1500	97.4	90	110	
K	39	115	he	4964.641	ppb	1.5	2502926.15	5000	99.69	90	110	
Ca	44	115	he	4896.336	ppb	2.5	124987.23	5000	97.93	90	110	
V	51	115	he	49.428	ppb	1.6	295547.16	50	98.86	90	110	
Cr	52	115	he	49.046	ppb	1.8	354884.71	50	98.09	90	110	
Mn	55	115	he	49.019	ppb	1.1	193421.64	50	98.04	90	110	
Fe	56	115	he	4956.131	ppb	0.6	28772637.75	5000	99.12	90	110	
Co	59	115	he	48.672	ppb	0.8	582691.64	50	97.34	90	110	
Ni	60	115	he	49.819	ppb	1.4	157477.74	50	99.64	90	110	
Cu	65	115	he	50.220	ppb	0.8	211796.66	50	100.44	90	110	
Zn	66	115	he	47.819	ppb	2.7	67516.58	50	95.64	90	110	
As	75	115	he	49.493	ppb	2.2	45001.05	50	98.99	90	110	
Se	78	115	he	246.070	ppb	0.9	14007.11	250	98.43	90	110	
Mo	95	115	nogas	49.952	ppb	2.6	384781.77	50	99.9	90	110	
Ag	107	115	nogas	50.916	ppb	3.2	994667.12	50	101.83	90	110	
Cd	111	115	nogas	50.299	ppb	1.5	187596.73	50	100.6	90	110	
Sb	121	115	nogas	48.629	ppb	2.4	733918.87	50	97.26	90	110	
Ba	137	159	nogas	48.862	ppb	2.2	271437.04	50	97.72	90	110	
Tl	205	165	nogas	50.029	ppb	1.2	1387374.46	50	100.06	90	110	
Pb	208	165	nogas	48.868	ppb	0.3	1822191.43	50	97.74	90	110	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	881699.15	1.7	862253.68	102.26	70	130	
Sc	45	he	46941.45	1.2	49835.65	94.19	70	130	
In	115	nogas	1027320.83	1.8	1063443.37	96.6	70	130	
In	115	he	284811.49	0.3	294344.35	96.76	70	130	
Tb	159	nogas	1311352.17	2.4	1326055.34	98.89	70	130	
Tb	159	he	805693.70	0.8	810680.28	99.38	70	130	
Ho	165	nogas	1248067.66	1.2	1252276.1	99.66	70	130	
Ho	165	he	778195.40	0.4	786015.96	99.01	70	130	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB V-397988
File Name	020_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 10:59:51
Sample Type	CCB
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	Limit	QC Flag
Be	9	165	nogas	0.012	ppb	23.6	140.00	1	
Na	23	115	he	13.853	ppb	149.2	51100.54	500	
Mg	24	115	he	1.544	ppb	44.4	1262.48	500	
Al	27	115	he	0.315	ppb	5.5	207.78	200	
K	39	115	he	-1.877	ppb	N/A	29752.41	500	
Ca	44	115	he	-0.449	ppb	N/A	283.34	500	
V	51	115	he	0.000	ppb	N/A	342.23	1	
Cr	52	115	he	-0.033	ppb	N/A	826.69	2	
Mn	55	115	he	0.024	ppb	29.8	317.78	6	
Fe	56	115	he	2.423	ppb	3.0	25235.04	300	
Co	59	115	he	0.001	ppb	74.3	71.11	2	
Ni	60	115	he	0.014	ppb	27.9	108.89	3	
Cu	65	115	he	-0.004	ppb	N/A	986.72	10	
Zn	66	115	he	-3.089	ppb	N/A	3441.56	20	
As	75	115	he	0.013	ppb	41.2	28.67	1	
Se	78	115	he	0.103	ppb	26.7	41.33	10	
Mo	95	115	nogas	0.024	ppb	30.9	203.34	1	
Ag	107	115	nogas	0.442	ppb	8.5	8739.65	1	
Cd	111	115	nogas	0.002	ppb	57.5	83.33	2	
Sb	121	115	nogas	0.035	ppb	8.6	876.71	3	
Ba	137	159	nogas	0.010	ppb	19.2	146.67	5	
Tl	205	165	nogas	0.072	ppb	3.6	2430.28	2	
Pb	208	165	nogas	0.016	ppb	25.0	2293.46	3	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	836205.51	0.9	862253.68	96.98	70	130	
Sc	45	he	46934.67	1.8	49835.65	94.18	70	130	
In	115	nogas	1033884.40	0.8	1063443.37	97.22	70	130	
In	115	he	291673.38	0.2	294344.35	99.09	70	130	
Tb	159	nogas	1307988.16	1.4	1326055.34	98.64	70	130	
Tb	159	he	811114.29	0.8	810680.28	100.05	70	130	
Ho	165	nogas	1248117.12	2.2	1252276.1	99.67	70	130	
Ho	165	he	787002.61	0.5	786015.96	100.13	70	130	

Prep Blank (PB) Report

Sample Name	MB 107918
File Name	021_PB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 11:03:29
Sample Type	PB
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Fail
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	Limit	QC Flag
Be	9	165	nogas	0.011	ppb	60.5	133.33	0.5	
Na	23	115	he	14.935	ppb	4.6	49362.69	250	
Mg	24	115	he	2.763	ppb	4.1	1853.46	250	
Al	27	115	he	3.252	ppb	3.1	822.25	100	
K	39	115	he	-1.394	ppb	N/A	28303.86	250	
Ca	44	115	he	6.114	ppb	15.8	428.90	250	
V	51	115	he	0.169	ppb	8.4	1300.07	0.5	
Cr	52	115	he	0.031	ppb	16.9	1224.50	1	
Mn	55	115	he	0.207	ppb	5.1	993.38	3	
Fe	56	115	he	13.448	ppb	1.3	85633.22	150	
Co	59	115	he	0.008	ppb	35.7	145.56	1	
Ni	60	115	he	0.041	ppb	18.4	183.34	1.5	
Cu	65	115	he	0.178	ppb	11.0	1666.80	5	
Zn	66	115	he	-1.649	ppb	N/A	4999.82	10	
As	75	115	he	0.034	ppb	26.5	45.33	0.5	
Se	78	115	he	0.328	ppb	17.6	51.33	5	
Mo	95	115	nogas	0.018	ppb	27.0	163.33	0.5	
Ag	107	115	nogas	2.512	ppb	5.6	49819.46	0.5	> 2.2* MDL
Cd	111	115	nogas	-0.006	ppb	N/A	53.33	1	
Sb	121	115	nogas	0.137	ppb	3.7	2446.93	1.5	
Ba	137	159	nogas	0.096	ppb	6.3	610.03	2.5	
Tl	205	165	nogas	0.043	ppb	17.4	1600.13	1.5	
Pb	208	165	nogas	0.080	ppb	3.4	4630.41	1.5	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	806118.43	0.5	862253.68	93.49	70	130	
Sc	45	he	44287.33	0.3	49835.65	88.87	70	130	
In	115	nogas	1041073.87	1.7	1063443.37	97.9	70	130	
In	115	he	275193.40	0.7	294344.35	93.49	70	130	
Tb	159	nogas	1278680.53	1.7	1326055.34	96.43	70	130	
Tb	159	he	789876.79	0.8	810680.28	97.43	70	130	
Ho	165	nogas	1236020.68	0.6	1252276.1	98.7	70	130	
Ho	165	he	768817.24	0.7	786015.96	97.81	70	130	

Laboratory Control Sample (LCS) Report

Sample Name	LCS 107918
File Name	022_LCS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 11:07:07
Sample Type	LCS
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	ExpVal	% Rec	%Low	%High	QC Flag
Be	9	165	nogas	225.815	ppb	3.3	1140623.08	250	90.33	80	120	
Na	23	115	he	22277.803	ppb	2.6	21847818.58	25000	89.11	80	120	
Mg	24	115	he	22060.364	ppb	0.1	11295968.16	25000	88.24	80	120	
Al	27	115	he	2225.075	ppb	1.4	447669.60	2500	89	80	120	
K	39	115	he	21441.168	ppb	0.7	9728853.50	25000	85.76	80	120	
Ca	44	115	he	21431.127	ppb	1.0	498065.73	25000	85.72	80	120	
V	51	115	he	233.800	ppb	0.3	1273873.32	250	93.52	80	120	
Cr	52	115	he	234.718	ppb	1.2	1545204.97	250	93.89	80	120	
Mn	55	115	he	218.958	ppb	0.8	787304.81	250	87.58	80	120	
Fe	56	115	he	2304.126	ppb	1.0	12205438.96	2500	92.17	80	120	
Co	59	115	he	227.592	ppb	2.0	2485035.53	250	91.04	80	120	
Ni	60	115	he	219.550	ppb	0.1	632740.34	250	87.82	80	120	
Cu	65	115	he	220.367	ppb	1.2	844620.93	250	88.15	80	120	
Zn	66	115	he	223.802	ppb	1.1	263857.30	250	89.52	80	120	
As	75	115	he	225.851	ppb	0.8	187234.02	250	90.34	80	120	
Se	78	115	he	221.264	ppb	0.6	11489.78	250	88.51	80	120	
Mo	95	115	nogas	235.458	ppb	2.7	1740109.61	250	94.18	80	120	
Ag	107	115	nogas	43.377	ppb	1.3	813156.70	50	86.75	80	120	
Cd	111	115	nogas	223.435	ppb	0.5	799378.30	250	89.37	80	120	
Sb	121	115	nogas	224.709	ppb	0.8	3253092.35	250	89.88	80	120	
Ba	137	159	nogas	218.524	ppb	3.5	1167727.25	250	87.41	80	120	
Tl	205	165	nogas	216.004	ppb	1.4	5848793.25	250	86.4	80	120	
Pb	208	165	nogas	222.161	ppb	1.5	8085108.42	250	88.86	80	120	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	790181.71	1.2	862253.68	91.64	70	130	
Sc	45	he	42985.48	0.8	49835.65	86.25	70	130	
In	115	nogas	985585.64	1.6	1063443.37	92.68	70	130	
In	115	he	259751.53	1.1	294344.35	88.25	70	130	
Tb	159	nogas	1261738.08	0.9	1326055.34	95.15	70	130	
Tb	159	he	783726.97	0.4	810680.28	96.68	70	130	
Ho	165	nogas	1219130.14	1.3	1252276.1	97.35	70	130	
Ho	165	he	756080.82	0.2	786015.96	96.19	70	130	

Laboratory Control Sample (LCS) Report

Sample Name	LCS MR 107918
File Name	023_LCS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 11:10:36
Sample Type	LCS
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	ExpVal	% Rec	%Low	%High	QC Flag
Be	9	165	nogas	228.254	ppb	2.7	1177972.82	250	91.3	80	120	
Na	23	115	he	23431.459	ppb	0.2	23121249.08	25000	93.73	80	120	
Mg	24	115	he	23120.817	ppb	1.8	11915988.14	25000	92.48	80	120	
Al	27	115	he	2317.958	ppb	1.4	469522.83	2500	92.72	80	120	
K	39	115	he	22525.031	ppb	1.2	10285132.09	25000	90.1	80	120	
Ca	44	115	he	22661.535	ppb	1.2	530023.76	25000	90.65	80	120	
V	51	115	he	243.021	ppb	1.1	1332632.80	250	97.21	80	120	
Cr	52	115	he	248.226	ppb	1.3	1644595.98	250	99.29	80	120	
Mn	55	115	he	230.788	ppb	1.7	835181.76	250	92.32	80	120	
Fe	56	115	he	2410.278	ppb	2.0	12849867.82	2500	96.41	80	120	
Co	59	115	he	239.414	ppb	1.5	2630814.20	250	95.77	80	120	
Ni	60	115	he	232.199	ppb	0.7	673504.40	250	92.88	80	120	
Cu	65	115	he	231.759	ppb	0.8	893854.41	250	92.7	80	120	
Zn	66	115	he	235.316	ppb	0.8	278852.11	250	94.13	80	120	
As	75	115	he	237.656	ppb	0.7	198280.82	250	95.06	80	120	
Se	78	115	he	232.921	ppb	2.3	12172.37	250	93.17	80	120	
Mo	95	115	nogas	237.819	ppb	0.9	1798821.85	250	95.13	80	120	
Ag	107	115	nogas	44.304	ppb	1.3	850012.90	50	88.61	80	120	
Cd	111	115	nogas	231.535	ppb	1.0	847619.34	250	92.61	80	120	
Sb	121	115	nogas	229.546	ppb	1.4	3399736.72	250	91.82	80	120	
Ba	137	159	nogas	225.279	ppb	0.3	1229065.19	250	90.11	80	120	
Tl	205	165	nogas	223.179	ppb	3.0	6173270.53	250	89.27	80	120	
Pb	208	165	nogas	229.173	ppb	2.6	8520167.37	250	91.67	80	120	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	805370.20	1.0	862253.68	93.4	70	130	
Sc	45	he	43510.41	0.4	49835.65	87.31	70	130	
In	115	nogas	1008450.37	1.5	1063443.37	94.83	70	130	
In	115	he	261422.85	1.1	294344.35	88.82	70	130	
Tb	159	nogas	1287945.35	0.2	1326055.34	97.13	70	130	
Tb	159	he	780031.57	0.8	810680.28	96.22	70	130	
Ho	165	nogas	1245534.93	1.3	1252276.1	99.46	70	130	
Ho	165	he	760183.56	0.4	786015.96	96.71	70	130	

Sample Report

Sample Name	AD38798-002
File Name	024SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 11:14:05
Sample Type	Sample
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	0.062	ppb	34.6	386.68	500	
Na	23	115	he	74523.417	ppb	1.3	72589079.34	200000	
Mg	24	115	he	8351.064	ppb	1.3	4253050.39	200000	
Al	27	115	he	7.799	ppb	3.8	1681.22	165000	
K	39	115	he	1312.407	ppb	1.0	617641.73	200000	
Ca	44	115	he	49692.658	ppb	1.6	1148108.22	200000	
V	51	115	he	0.533	ppb	3.6	3188.16	500	
Cr	52	115	he	0.248	ppb	5.3	2563.58	500	
Mn	55	115	he	189.654	ppb	0.2	678132.07	2500	
Fe	56	115	he	144.793	ppb	0.4	771678.25	200000	
Co	59	115	he	0.376	ppb	1.2	4133.96	500	
Ni	60	115	he	0.429	ppb	6.2	1284.51	500	
Cu	65	115	he	0.645	ppb	1.3	3343.80	2500	
Zn	66	115	he	-0.747	ppb	N/A	5724.54	2500	
As	75	115	he	0.689	ppb	0.7	582.68	500	
Se	78	115	he	0.537	ppb	23.3	59.00	2500	
Mo	95	115	nogas	1.797	ppb	1.0	13423.46	500	
Ag	107	115	nogas	2.181	ppb	6.0	41320.53	500	
Cd	111	115	nogas	0.014	ppb	73.1	123.33	500	
Sb	121	115	nogas	0.681	ppb	5.1	10280.82	500	
Ba	137	159	nogas	32.638	ppb	2.9	179352.69	2500	
Tl	205	165	nogas	0.431	ppb	2.0	12035.87	500	
Pb	208	165	nogas	0.138	ppb	3.8	6670.82	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	805717.90	1.4	862253.68	93.44	70	130	
Sc	45	he	42126.28	1.6	49835.65	84.53	70	130	
In	115	nogas	994771.67	1.8	1063443.37	93.54	70	130	
In	115	he	258305.36	1.3	294344.35	87.76	70	130	
Tb	159	nogas	1297124.30	1.7	1326055.34	97.82	70	130	
Tb	159	he	776895.75	0.8	810680.28	95.83	70	130	
Ho	165	nogas	1214171.00	1.1	1252276.1	96.96	70	130	
Ho	165	he	754118.20	0.6	786015.96	95.94	70	130	

Sample Report

Sample Name	AD38798-002 MR
File Name	025SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 11:17:41
Sample Type	Sample
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	0.035	ppb	29.9	256.68	500	
Na	23	115	he	77685.660	ppb	1.2	75661019.22	200000	
Mg	24	115	he	8698.266	ppb	0.8	4429244.82	200000	
Al	27	115	he	9.221	ppb	4.4	1965.70	165000	
K	39	115	he	1366.482	ppb	0.8	641980.06	200000	
Ca	44	115	he	51724.116	ppb	1.5	1194868.04	200000	
V	51	115	he	0.562	ppb	5.2	3347.09	500	
Cr	52	115	he	0.195	ppb	6.4	2217.96	500	
Mn	55	115	he	196.998	ppb	1.2	704385.74	2500	
Fe	56	115	he	150.795	ppb	0.7	803230.79	200000	
Co	59	115	he	0.388	ppb	3.0	4266.23	500	
Ni	60	115	he	0.429	ppb	9.6	1285.62	500	
Cu	65	115	he	0.676	ppb	4.6	3460.49	2500	
Zn	66	115	he	-0.608	ppb	N/A	5883.51	2500	
As	75	115	he	0.730	ppb	3.1	616.02	500	
Se	78	115	he	0.493	ppb	4.5	56.67	2500	
Mo	95	115	nogas	1.787	ppb	4.0	13276.62	500	
Ag	107	115	nogas	2.160	ppb	5.0	40718.30	500	
Cd	111	115	nogas	0.007	ppb	214.3	96.67	500	
Sb	121	115	nogas	0.631	ppb	1.4	9503.55	500	
Ba	137	159	nogas	33.900	ppb	0.7	183120.45	2500	
Tl	205	165	nogas	0.099	ppb	5.9	3143.78	500	
Pb	208	165	nogas	0.129	ppb	7.2	6440.76	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	814322.88	0.8	862253.68	94.44	70	130	
Sc	45	he	42314.60	0.9	49835.65	84.91	70	130	
In	115	nogas	989590.10	1.6	1063443.37	93.06	70	130	
In	115	he	258289.42	0.7	294344.35	87.75	70	130	
Tb	159	nogas	1274750.76	2.1	1326055.34	96.13	70	130	
Tb	159	he	776133.39	0.1	810680.28	95.74	70	130	
Ho	165	nogas	1237424.10	2.1	1252276.1	98.81	70	130	
Ho	165	he	756242.11	0.3	786015.96	96.21	70	130	

Sample Report

Sample Name	AD38798-002 SD
File Name	026SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 11:21:15
Sample Type	Sample
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	0.026	ppb	9.1	216.67	500	
Na	23	115	he	15739.263	ppb	1.4	17141985.99	200000	
Mg	24	115	he	1626.291	ppb	2.0	1038420.20	200000	
Al	27	115	he	2.478	ppb	11.0	688.91	165000	
K	39	115	he	281.559	ppb	1.2	171765.20	200000	
Ca	44	115	he	10391.511	ppb	2.2	268215.74	200000	
V	51	115	he	0.088	ppb	11.9	871.14	500	
Cr	52	115	he	0.012	ppb	83.1	1140.05	500	
Mn	55	115	he	40.366	ppb	1.2	161292.25	2500	
Fe	56	115	he	30.399	ppb	0.6	189312.19	200000	
Co	59	115	he	0.074	ppb	5.2	951.15	500	
Ni	60	115	he	0.116	ppb	3.5	432.23	500	
Cu	65	115	he	0.305	ppb	14.8	2286.89	2500	
Zn	66	115	he	1.099	ppb	39.3	8746.14	2500	
As	75	115	he	0.145	ppb	16.4	149.33	500	
Se	78	115	he	0.053	ppb	425.2	38.00	2500	
Mo	95	115	nogas	0.348	ppb	5.2	2820.34	500	
Ag	107	115	nogas	0.325	ppb	2.1	6688.43	500	
Cd	111	115	nogas	-0.007	ppb	N/A	50.00	500	
Sb	121	115	nogas	0.130	ppb	8.9	2410.27	500	
Ba	137	159	nogas	7.096	ppb	3.6	39800.12	2500	
Tl	205	185	nogas	0.048	ppb	6.1	1770.16	500	
Pb	208	165	nogas	0.033	ppb	15.8	2976.86	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	843407.41	1.7	862253.68	97.81	70	130	
Sc	45	he	46884.51	0.8	49835.65	94.08	70	130	
In	115	nogas	1074509.27	1.8	1063443.37	101.04	70	130	
In	115	he	288334.38	0.5	294344.35	97.96	70	130	
Tb	159	nogas	1321336.65	0.6	1326055.34	99.64	70	130	
Tb	159	he	814733.94	0.3	810680.28	100.5	70	130	
Ho	165	nogas	1257261.10	1.1	1252276.1	100.4	70	130	
Ho	165	he	790097.97	0.5	786015.96	100.52	70	130	

Sample Report

Sample Name	AD38798-004 MS1
File Name	027SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 11:24:51
Sample Type	Sample
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	237.708	ppb	3.3	1204020.81	500	
Na	23	115	he	101501.353	ppb	0.3	97963320.55	200000	
Mg	24	115	he	31734.098	ppb	1.1	16014318.81	200000	
Al	27	115	he	2402.062	ppb	1.8	476471.81	165000	
K	39	115	he	24124.181	ppb	1.8	10784002.91	200000	
Ca	44	115	he	74289.527	ppb	1.9	1700576.05	200000	
V	51	115	he	252.363	ppb	2.5	1354627.06	500	
Cr	52	115	he	250.414	ppb	3.4	1625263.68	500	
Mn	55	115	he	439.568	ppb	1.3	1557369.31	2500	
Fe	56	115	he	2561.844	ppb	2.5	13373211.97	200000	
Co	59	115	he	241.949	ppb	0.5	2602986.22	500	
Ni	60	115	he	231.147	ppb	0.7	656457.41	500	
Cu	65	115	he	232.098	ppb	1.5	876541.86	2500	
Zn	66	115	he	234.069	ppb	1.3	271646.05	2500	
As	75	115	he	242.221	ppb	0.3	197877.03	500	
Se	78	115	he	237.663	ppb	1.1	12160.02	2500	
Mo	95	115	nogas	242.478	ppb	2.2	1821462.05	500	
Ag	107	115	nogas	43.194	ppb	1.1	823043.74	500	
Cd	111	115	nogas	228.568	ppb	1.3	831115.51	500	
Sb	121	115	nogas	237.012	ppb	2.3	3487081.82	500	
Ba	137	159	nogas	267.272	ppb	2.6	1424161.13	2500	
Tl	205	165	nogas	222.637	ppb	0.2	6042886.16	500	
Pb	208	165	nogas	228.309	ppb	0.4	8328734.82	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	812400.35	0.9	862253.68	94.22	70	130	
Sc	45	he	43020.01	0.8	49835.65	86.32	70	130	
In	115	nogas	1001734.57	0.9	1063443.37	94.2	70	130	
In	115	he	255970.28	1.8	294344.35	86.96	70	130	
Tb	159	nogas	1258338.76	1.9	1326055.34	94.89	70	130	
Tb	159	he	769370.87	0.9	810680.28	94.9	70	130	
Ho	165	nogas	1221934.64	1.3	1252276.1	97.58	70	130	
Ho	165	he	743831.21	0.9	786015.96	94.63	70	130	

Sample Report

Sample Name	AD38798-005 MS2
File Name	028SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 11:26:18
Sample Type	Sample
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	232.179	ppb	2.4	1177915.56	500	
Na	23	115	he	102228.992	ppb	0.4	98041847.22	200000	
Mg	24	115	he	31661.683	ppb	1.5	15875451.04	200000	
Al	27	115	he	2373.472	ppb	1.1	467756.35	165000	
K	39	115	he	24256.585	ppb	1.2	10773596.52	200000	
Ca	44	115	he	74739.980	ppb	1.6	1700134.34	200000	
V	51	115	he	247.389	ppb	1.8	1319868.70	500	
Cr	52	115	he	247.925	ppb	1.7	1598314.59	500	
Mn	55	115	he	431.492	ppb	2.4	1519049.56	2500	
Fe	56	115	he	2520.914	ppb	1.1	13074558.09	200000	
Co	59	115	he	240.168	ppb	3.1	2567576.08	500	
Ni	60	115	he	226.940	ppb	1.1	640443.19	500	
Cu	65	115	he	226.127	ppb	0.2	848599.88	2500	
Zn	66	115	he	228.714	ppb	0.3	263884.28	2500	
As	75	115	he	237.730	ppb	1.0	192978.23	500	
Se	78	115	he	229.900	ppb	0.6	11688.95	2500	
Mo	95	115	nogas	242.865	ppb	2.5	1812272.84	500	
Ag	107	115	nogas	42.902	ppb	2.8	811978.45	500	
Cd	111	115	nogas	227.230	ppb	2.4	820733.03	500	
Sb	121	115	nogas	232.126	ppb	2.3	3393081.62	500	
Ba	137	159	nogas	259.905	ppb	1.3	1413533.10	2500	
Tl	205	165	nogas	222.352	ppb	1.0	6046820.95	500	
Pb	208	165	nogas	225.420	ppb	1.1	8238938.84	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	820325.12	0.9	862253.68	95.14	70	130	
Sc	45	he	43283.01	0.6	49835.65	86.85	70	130	
In	115	nogas	995235.11	1.9	1063443.37	93.59	70	130	
In	115	he	254351.92	0.2	294344.35	86.41	70	130	
Tb	159	nogas	1263865.40	0.7	1326055.34	96.82	70	130	
Tb	159	he	773779.19	1.2	810680.28	95.45	70	130	
Ho	165	nogas	1224264.46	0.8	1252276.1	97.76	70	130	
Ho	165	he	751178.84	0.7	786015.96	95.57	70	130	

Sample Report

Sample Name	AD38798-002 PS
File Name	029SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 11:31:46
Sample Type	Sample
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	45.871	ppb	3.4	235642.49	500	
Na	23	115	he	78296.504	ppb	1.9	76377825.86	200000	
Mg	24	115	he	13101.142	ppb	1.7	6681659.60	200000	
Al	27	115	he	1419.838	ppb	1.3	284669.95	165000	
K	39	115	he	6042.917	ppb	1.3	2750534.33	200000	
Ca	44	115	he	53215.560	ppb	2.4	1231375.82	200000	
V	51	115	he	49.521	ppb	0.9	268983.09	500	
Cr	52	115	he	48.933	ppb	0.7	321622.28	500	
Mn	55	115	he	233.779	ppb	0.9	837190.56	2500	
Fe	56	115	he	5025.255	ppb	1.6	26501827.84	200000	
Co	59	115	he	47.954	ppb	0.4	521477.48	500	
Ni	60	115	he	48.013	ppb	0.9	137859.59	500	
Cu	65	115	he	49.573	ppb	1.3	189926.07	2500	
Zn	66	115	he	50.221	ppb	0.7	64076.11	2500	
As	75	115	he	50.024	ppb	1.5	41316.23	500	
Se	78	115	he	234.357	ppb	1.1	12118.99	2500	
Mo	95	115	nogas	51.207	ppb	3.1	382572.39	500	
Ag	107	115	nogas	47.281	ppb	3.6	895888.19	500	
Cd	111	115	nogas	48.089	ppb	2.5	173946.79	500	
Sb	121	115	nogas	49.148	ppb	2.8	719380.80	500	
Ba	137	159	nogas	77.721	ppb	0.7	432450.87	2500	
Tl	205	165	nogas	47.995	ppb	1.9	1321544.28	500	
Pb	208	165	nogas	47.367	ppb	2.5	1753903.32	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	843802.80	1.0	862253.68	97.86	70	130	
Sc	45	he	43441.29	1.0	49835.65	87.17	70	130	
In	115	nogas	996300.27	0.9	1063443.37	93.69	70	130	
In	115	he	258711.51	0.6	294344.35	87.89	70	130	
Tb	159	nogas	1313421.05	1.1	1326055.34	99.05	70	130	
Tb	159	he	778348.30	0.1	810680.28	96.01	70	130	
Ho	165	nogas	1239458.49	1.3	1252276.1	98.98	70	130	
Ho	165	he	754979.17	0.5	786015.96	96.05	70	130	

Sample Report

Sample Name	Rinse
File Name	030SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 11:35:21
Sample Type	Sample
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	0.031	ppb	21.0	240.01	500	
Na	23	115	he	21.478	ppb	3.3	62133.37	200000	
Mg	24	115	he	1.051	ppb	9.8	1022.27	200000	
Al	27	115	he	0.521	ppb	19.8	265.56	165000	
K	39	115	he	4.123	ppb	16.7	34243.66	200000	
Ca	44	115	he	5.052	ppb	8.6	445.56	200000	
V	51	115	he	-0.038	ppb	N/A	112.22	500	
Cr	52	115	he	-0.058	ppb	N/A	666.68	500	
Mn	55	115	he	0.070	ppb	3.0	522.24	2500	
Fe	56	115	he	1.767	ppb	22.0	22290.49	200000	
Co	59	115	he	0.003	ppb	51.9	104.44	500	
Ni	60	115	he	0.025	ppb	30.4	150.00	500	
Cu	65	115	he	0.524	ppb	4.9	3400.49	2500	
Zn	66	115	he	-4.475	ppb	N/A	1724.56	2500	
As	75	115	he	0.004	ppb	153.8	21.33	500	
Se	78	115	he	0.044	ppb	395.8	39.67	2500	
Mo	95	115	nogas	0.020	ppb	58.4	180.00	500	
Ag	107	115	nogas	0.368	ppb	5.0	7618.95	500	
Cd	111	115	nogas	-0.011	ppb	N/A	36.67	500	
Sb	121	115	nogas	0.031	ppb	5.6	856.71	500	
Ba	137	159	nogas	0.018	ppb	48.1	193.34	2500	
Tl	205	165	nogas	0.246	ppb	4.1	7282.21	500	
Pb	208	165	nogas	0.050	ppb	11.7	3573.60	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	876860.77	2.3	862253.68	101.69	70	130	
Sc	45	he	49577.08	1.0	49835.65	99.48	70	130	
In	115	nogas	1081668.59	1.7	1063443.37	101.71	70	130	
In	115	he	304525.80	1.1	294344.35	103.46	70	130	
Tb	159	nogas	1312920.47	1.3	1326055.34	99.01	70	130	
Tb	159	he	829971.89	0.8	810680.28	102.38	70	130	
Ho	165	nogas	1255020.97	1.5	1252276.1	100.22	70	130	
Ho	165	he	801810.09	0.6	786015.96	102.01	70	130	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV V-397991
File Name	031_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 11:38:59
Sample Type	CCV
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Fail
ISTD QC Pass/Fail	Fail
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	ExpVal	% Rec	%Low	%High	QC Flag
Be	9	165	nogas	38.004	ppb	30.9	237484.98	50	76.01	90	110	> +\- 10%
Na	23	115	he	4805.655	ppb	4.0	5378522.15	5000	96.11	90	110	
Mg	24	115	he	4934.174	ppb	4.4	2868698.85	5000	98.68	90	110	
Al	27	115	he	1427.682	ppb	2.8	326359.81	1500	95.18	90	110	
K	39	115	he	4811.750	ppb	4.2	2502835.94	5000	96.24	90	110	
Ca	44	115	he	4715.639	ppb	3.5	124666.40	5000	94.31	90	110	
V	51	115	he	48.046	ppb	3.5	297517.67	50	96.09	90	110	
Cr	52	115	he	47.925	ppb	3.9	359116.44	50	95.85	90	110	
Mn	55	115	he	47.816	ppb	3.7	195384.34	50	95.63	90	110	
Fe	56	115	he	4878.363	ppb	2.9	29332128.84	5000	97.57	90	110	
Co	59	115	he	47.239	ppb	3.1	585690.69	50	94.48	90	110	
Ni	60	115	he	48.261	ppb	3.7	157976.31	50	96.52	90	110	
Cu	65	115	he	48.432	ppb	3.2	211572.14	50	96.86	90	110	
Zn	66	115	he	44.157	ppb	2.4	65156.63	50	88.31	90	110	> +\- 10%
As	75	115	he	47.417	ppb	3.6	44646.54	50	94.83	90	110	
Se	78	115	he	239.614	ppb	2.9	14127.23	250	95.85	90	110	
Mo	95	115	nogas	37.456	ppb	32.7	355396.69	50	74.91	90	110	> +\- 10%
Ag	107	115	nogas	40.147	ppb	31.7	968428.34	50	80.29	90	110	> +\- 10%
Cd	111	115	nogas	37.871	ppb	33.3	173713.77	50	75.74	90	110	> +\- 10%
Sb	121	115	nogas	37.264	ppb	32.7	692630.22	50	74.53	90	110	> +\- 10%
Ba	137	159	nogas	38.233	ppb	30.7	258816.95	50	76.47	90	110	> +\- 10%
Tl	205	165	nogas	41.070	ppb	31.3	1373422.69	50	82.14	90	110	> +\- 10%
Pb	208	165	nogas	38.303	ppb	30.6	1726481.20	50	76.61	90	110	> +\- 10%

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	1142782.17	37.1	862253.68	132.53	70	130	ISTD Failed
Sc	45	he	49142.26	2.8	49835.65	98.61	70	130	
In	115	nogas	1376300.71	37.3	1063443.37	129.42	70	130	
In	115	he	295141.57	2.8	294344.35	100.27	70	130	
Tb	159	nogas	1718858.31	34.6	1326055.34	129.62	70	130	
Tb	159	he	837250.16	2.0	810680.28	103.28	70	130	
Ho	165	nogas	1621822.32	34.5	1252276.1	129.51	70	130	
Ho	165	he	816185.90	2.4	786015.96	103.84	70	130	

Continuing Calibration Blank (CCB) Report

Sample Name	CCB V-397988
File Name	032_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 11:42:33
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	Limit	QC Flag
Be	9	165	nogas	0.014	ppb	77.8	153.34	1	
Na	23	115	he	4.745	ppb	6.3	40481.60	500	
Mg	24	115	he	0.974	ppb	2.8	921.15	500	
Al	27	115	he	0.254	ppb	36.0	191.12	200	
K	39	115	he	-1.554	ppb	N/A	29449.58	500	
Ca	44	115	he	-0.061	ppb	N/A	288.89	500	
V	51	115	he	-0.011	ppb	N/A	270.01	1	
Cr	52	115	he	-0.024	ppb	N/A	872.25	2	
Mn	55	115	he	0.012	ppb	37.4	264.45	6	
Fe	56	115	he	1.955	ppb	3.6	22108.60	300	
Co	59	115	he	0.002	ppb	39.4	78.89	2	
Ni	60	115	he	0.009	ppb	64.8	88.89	3	
Cu	65	115	he	0.013	ppb	364.4	1043.39	10	
Zn	66	115	he	-4.963	ppb	N/A	1005.60	20	
As	75	115	he	0.009	ppb	70.5	24.67	1	
Se	78	115	he	0.033	ppb	236.4	36.67	10	
Mo	95	115	nogas	0.024	ppb	16.4	213.34	1	
Ag	107	115	nogas	0.104	ppb	6.2	2153.54	1	
Cd	111	115	nogas	-0.012	ppb	N/A	30.00	2	
Sb	121	115	nogas	0.037	ppb	9.6	930.05	3	
Ba	137	159	nogas	0.001	ppb	349.2	100.00	5	
Tl	205	165	nogas	0.107	ppb	7.9	3413.86	2	
Pb	208	165	nogas	0.004	ppb	78.6	1870.09	3	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	825566.79	1.0	862253.68	95.75	70	130	
Sc	45	he	45547.96	0.9	49835.65	91.4	70	130	
In	115	nogas	1067719.86	1.1	1063443.37	100.4	70	130	
In	115	he	287164.39	1.0	294344.35	97.56	70	130	
Tb	159	nogas	1319473.42	1.1	1326055.34	99.5	70	130	
Tb	159	he	805341.15	0.9	810680.28	99.34	70	130	
Ho	165	nogas	1254538.37	1.5	1252276.1	100.18	70	130	
Ho	165	he	782085.35	0.8	786015.96	99.5	70	130	

Sample Report

Sample Name	AD38798-006
File Name	033SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 11:46:12
Sample Type	Sample
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	0.030	ppb	16.7	230.01	500	
Na	23	115	he	76239.619	ppb	2.1	74431128.15	200000	
Mg	24	115	he	8349.209	ppb	0.9	4261842.19	200000	
Al	27	115	he	11.536	ppb	2.8	2434.67	165000	
K	39	115	he	1165.656	ppb	0.9	552955.92	200000	
Ca	44	115	he	49203.561	ppb	2.9	1139515.75	200000	
V	51	115	he	0.575	ppb	6.3	3425.99	500	
Cr	52	115	he	0.185	ppb	7.4	2157.96	500	
Mn	55	115	he	176.677	ppb	1.1	633242.18	2500	
Fe	56	115	he	156.548	ppb	1.6	835477.81	200000	
Co	59	115	he	0.330	ppb	1.7	3648.27	500	
Ni	60	115	he	0.376	ppb	6.3	1134.50	500	
Cu	65	115	he	0.471	ppb	3.5	2686.98	2500	
Zn	66	115	he	-2.057	ppb	N/A	4236.22	2500	
As	75	115	he	0.710	ppb	4.4	601.35	500	
Se	78	115	he	0.445	ppb	7.8	54.33	2500	
Mo	95	115	nogas	1.499	ppb	4.6	11184.74	500	
Ag	107	115	nogas	0.623	ppb	5.7	11818.73	500	
Cd	111	115	nogas	0.018	ppb	91.0	136.67	500	
Sb	121	115	nogas	0.521	ppb	1.7	7935.81	500	
Ba	137	159	nogas	32.730	ppb	1.1	177521.46	2500	
Tl	205	165	nogas	0.062	ppb	2.9	2090.21	500	
Pb	208	165	nogas	0.130	ppb	5.6	6414.07	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	809545.58	1.1	862253.68	93.89	70	130	
Sc	45	he	41922.23	0.1	49835.65	84.12	70	130	
In	115	nogas	993342.25	1.9	1063443.37	93.41	70	130	
In	115	he	258916.35	0.8	294344.35	87.96	70	130	
Tb	159	nogas	1279874.59	0.6	1326055.34	96.52	70	130	
Tb	159	he	765518.04	0.6	810680.28	94.43	70	130	
Ho	165	nogas	1219444.93	1.4	1252276.1	97.38	70	130	
Ho	165	he	746846.27	1.1	786015.96	95.02	70	130	

Sample Report

Sample Name	AD38798-007
File Name	034SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 11:49:48
Sample Type	Sample
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	0.026	ppb	55.5	213.34	500	
Na	23	115	he	121.355	ppb	1.0	157428.02	200000	
Mg	24	115	he	7.656	ppb	2.1	4441.82	200000	
Al	27	115	he	3.109	ppb	7.0	780.03	165000	
K	39	115	he	0.116	ppb	282.2	28604.47	200000	
Ca	44	115	he	34.364	ppb	10.1	1107.83	200000	
V	51	115	he	0.277	ppb	5.3	1893.47	500	
Cr	52	115	he	0.101	ppb	7.7	1687.89	500	
Mn	55	115	he	0.213	ppb	8.2	1004.49	2500	
Fe	56	115	he	3.792	ppb	1.2	31028.85	200000	
Co	59	115	he	0.010	ppb	13.6	166.67	500	
Ni	60	115	he	0.060	ppb	8.2	237.78	500	
Cu	65	115	he	0.839	ppb	3.2	4284.07	2500	
Zn	66	115	he	-3.045	ppb	N/A	3251.51	2500	
As	75	115	he	0.069	ppb	19.1	74.67	500	
Se	78	115	he	0.101	ppb	72.3	38.33	2500	
Mo	95	115	nogas	0.016	ppb	62.1	143.34	500	
Ag	107	115	nogas	0.366	ppb	4.7	7295.42	500	
Cd	111	115	nogas	-0.002	ppb	N/A	66.67	500	
Sb	121	115	nogas	0.097	ppb	6.3	1833.49	500	
Ba	137	159	nogas	0.124	ppb	6.0	790.04	2500	
Tl	205	165	nogas	0.031	ppb	14.2	1276.76	500	
Pb	208	165	nogas	0.037	ppb	10.0	3050.20	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	817448.97	1.3	862253.68	94.8	70	130	
Sc	45	he	43776.79	0.1	49835.65	87.84	70	130	
In	115	nogas	1043345.16	1.2	1063443.37	98.11	70	130	
In	115	he	271190.49	0.4	294344.35	92.13	70	130	
Tb	159	nogas	1322844.77	2.1	1326055.34	99.76	70	130	
Tb	159	he	791114.98	0.7	810680.28	97.59	70	130	
Ho	165	nogas	1240110.29	0.5	1252276.1	99.03	70	130	
Ho	165	he	766533.06	0.8	786015.96	97.52	70	130	

Sample Report

Sample Name	AD38796-001
File Name	035SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 11:53:28
Sample Type	Sample
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	0.402	ppb	8.9	2150.20	500	
Na	23	115	he	42838.314	ppb	1.6	41234452.81	200000	
Mg	24	115	he	8510.296	ppb	1.2	4281957.88	200000	
Al	27	115	he	372.378	ppb	0.8	73733.75	165000	
K	39	115	he	3747.540	ppb	1.1	1692590.49	200000	
Ca	44	115	he	27547.329	ppb	2.2	628761.22	200000	
V	51	115	he	0.597	ppb	1.9	3497.13	500	
Cr	52	115	he	0.559	ppb	2.7	4549.65	500	
Mn	55	115	he	639.100	ppb	2.1	2256864.63	2500	
Fe	56	115	he	21304.192	ppb	2.1	110768860.04	200000	
Co	59	115	he	1.374	ppb	0.0	14787.89	500	
Ni	60	115	he	10.742	ppb	1.8	30464.39	500	
Cu	65	115	he	2.478	ppb	4.9	10193.92	2500	
Zn	66	115	he	206.321	ppb	1.1	239461.43	2500	
As	75	115	he	2.068	ppb	2.0	1699.44	500	
Se	78	115	he	0.155	ppb	194.3	39.00	2500	
Mo	95	115	nogas	0.214	ppb	7.7	1630.12	500	
Ag	107	115	nogas	0.211	ppb	9.0	4060.68	500	
Cd	111	115	nogas	0.131	ppb	30.0	546.69	500	
Sb	121	115	nogas	1.627	ppb	6.4	24288.90	500	
Ba	137	159	nogas	335.362	ppb	2.4	1813654.04	2500	
Tl	205	165	nogas	0.024	ppb	17.8	1073.40	500	
Pb	208	165	nogas	0.757	ppb	1.6	29820.71	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	820191.94	1.0	862253.68	95.12	70	130	
Sc	45	he	42072.77	1.1	49835.65	84.42	70	130	
In	115	nogas	1003604.53	2.7	1063443.37	94.37	70	130	
In	115	he	255211.78	1.8	294344.35	86.71	70	130	
Tb	159	nogas	1277049.30	1.8	1326055.34	96.3	70	130	
Tb	159	he	775020.75	0.8	810680.28	95.6	70	130	
Ho	165	nogas	1243887.90	2.9	1252276.1	99.33	70	130	
Ho	165	he	758300.44	0.5	786015.96	96.47	70	130	

Sample Report

Sample Name	Rinse
File Name	036SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 11:57:04
Sample Type	Sample
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	LDR	QC Flag
Be	9	165	nogas	0.018	ppb	40.2	173.34	500	
Na	23	115	he	20.788	ppb	1.0	60028.81	200000	
Mg	24	115	he	0.686	ppb	8.9	786.69	200000	
Al	27	115	he	0.680	ppb	17.5	296.67	165000	
K	39	115	he	6.032	ppb	1.8	34502.03	200000	
Ca	44	115	he	6.204	ppb	25.6	466.68	200000	
V	51	115	he	-0.041	ppb	N/A	94.44	500	
Cr	52	115	he	-0.067	ppb	N/A	587.79	500	
Mn	55	115	he	0.076	ppb	14.0	538.90	2500	
Fe	56	115	he	2.580	ppb	3.1	26734.48	200000	
Co	59	115	he	-0.001	ppb	N/A	55.55	500	
Ni	60	115	he	0.020	ppb	23.8	128.89	500	
Cu	65	115	he	0.536	ppb	3.1	3377.14	2500	
Zn	66	115	he	-4.581	ppb	N/A	1547.87	2500	
As	75	115	he	-0.006	ppb	N/A	11.33	500	
Se	78	115	he	0.038	ppb	133.9	38.33	2500	
Mo	95	115	nogas	0.007	ppb	50.5	80.00	500	
Ag	107	115	nogas	0.103	ppb	4.9	2136.87	500	
Cd	111	115	nogas	-0.012	ppb	N/A	30.00	500	
Sb	121	115	nogas	0.001	ppb	106.7	376.68	500	
Ba	137	159	nogas	0.013	ppb	73.0	166.67	2500	
Tl	205	165	nogas	0.026	ppb	18.4	1140.08	500	
Pb	208	165	nogas	0.030	ppb	17.9	2830.17	2500	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	848149.86	0.1	862253.68	98.36	70	130	
Sc	45	he	48929.22	1.7	49835.65	98.18	70	130	
In	115	nogas	1071568.61	0.3	1063443.37	100.76	70	130	
In	115	he	297987.71	0.4	294344.35	101.24	70	130	
Tb	159	nogas	1341555.35	1.5	1326055.34	101.17	70	130	
Tb	159	he	814404.76	0.7	810680.28	100.46	70	130	
Ho	165	nogas	1250413.19	3.0	1252276.1	99.85	70	130	
Ho	165	he	787788.34	0.4	786015.96	100.23	70	130	

Continuing Calibration Verification (CCV) Report

Sample Name	CCV V-397991
File Name	037_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 12:00:42
Sample Type	CCV
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

QC Analyte Table

Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	ExpVal	% Rec	%Low	%High	QC Flag
Be	9	165	nogas	48.497	ppb	1.2	253319.38	50	96.99	90	110	
Na	23	115	he	5016.604	ppb	1.3	5337572.15	5000	100.33	90	110	
Mg	24	115	he	5033.519	ppb	1.2	2782970.52	5000	100.67	90	110	
Al	27	115	he	1450.315	ppb	1.0	315196.31	1500	96.69	90	110	
K	39	115	he	5055.472	ppb	0.7	2499124.07	5000	101.11	90	110	
Ca	44	115	he	4856.510	ppb	1.6	122070.63	5000	97.13	90	110	
V	51	115	he	49.132	ppb	1.2	289285.17	50	98.26	90	110	
Cr	52	115	he	48.788	ppb	1.1	347622.60	50	97.58	90	110	
Mn	55	115	he	48.976	ppb	1.4	190290.15	50	97.95	90	110	
Fe	56	115	he	5002.022	ppb	1.1	28593003.31	5000	100.04	90	110	
Co	59	115	he	48.521	ppb	2.0	571973.64	50	97.04	90	110	
Ni	60	115	he	49.350	ppb	1.3	153602.70	50	98.7	90	110	
Cu	65	115	he	49.531	ppb	1.5	205694.87	50	99.06	90	110	
Zn	66	115	he	45.314	ppb	2.8	63372.91	50	90.63	90	110	
As	75	115	he	48.874	ppb	1.2	43756.41	50	97.75	90	110	
Se	78	115	he	245.046	ppb	1.9	13734.83	250	98.02	90	110	
Mo	95	115	nogas	47.956	ppb	2.5	380897.14	50	95.91	90	110	
Ag	107	115	nogas	48.887	ppb	3.4	984863.11	50	97.77	90	110	
Cd	111	115	nogas	48.083	ppb	1.2	184882.36	50	96.17	90	110	
Sb	121	115	nogas	47.316	ppb	1.4	736210.17	50	94.63	90	110	
Ba	137	159	nogas	49.247	ppb	1.7	272285.25	50	98.49	90	110	
Tl	205	165	nogas	49.281	ppb	2.4	1379536.18	50	98.56	90	110	
Pb	208	165	nogas	47.982	ppb	1.1	1806370.76	50	95.96	90	110	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	861538.11	0.6	862253.68	99.92	70	130	
Sc	45	he	46896.84	0.5	49835.65	94.1	70	130	
In	115	nogas	1058848.52	0.8	1063443.37	99.57	70	130	
In	115	he	280447.47	0.3	294344.35	95.28	70	130	
Tb	159	nogas	1304961.28	1.9	1326055.34	98.41	70	130	
Tb	159	he	793894.71	0.8	810680.28	97.93	70	130	
Ho	165	nogas	1259924.67	1.4	1252276.1	100.61	70	130	
Ho	165	he	771668.88	0.7	786015.96	98.17	70	130	

Continuing Calibration Blank (CCB) Report

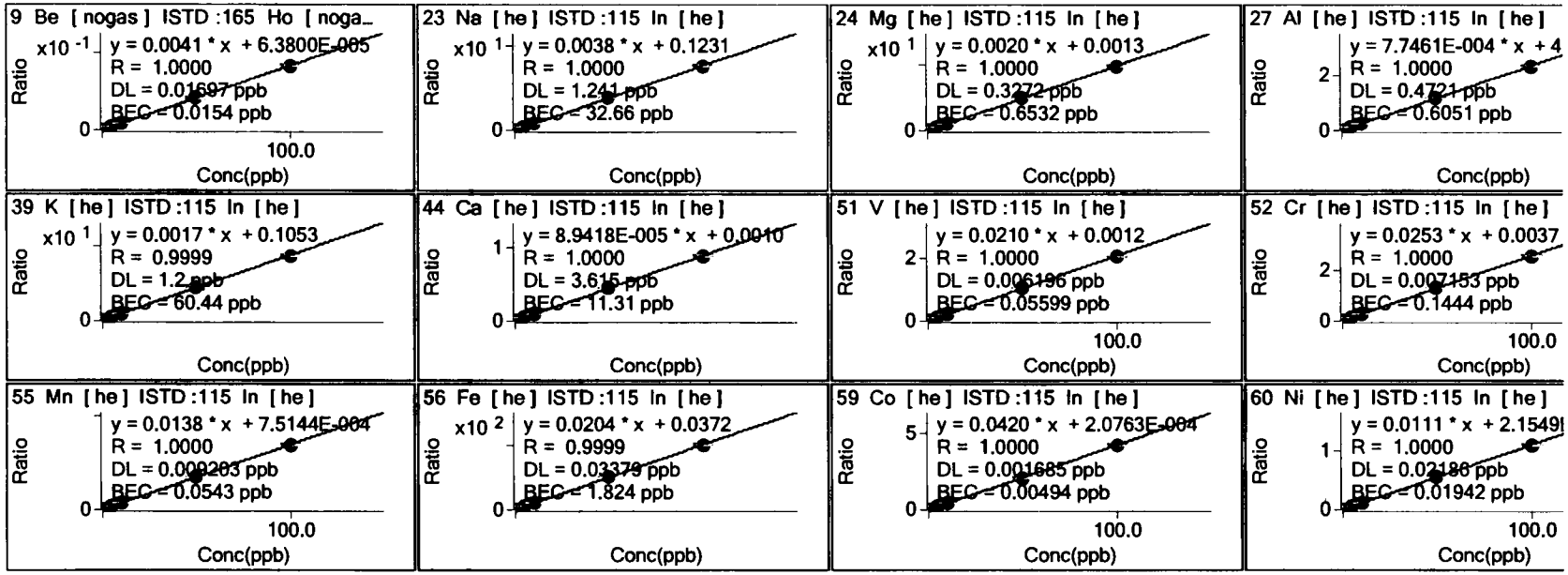
Sample Name	CCB V-397988
File Name	038_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\SW06292023A.b
Acq Time	2023-06-29 12:04:16
Sample Type	CCB
Total Dilution	1.0000
Comment	—
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fail	Pass
ISTD QC Pass/Fail	Pass
Operator	UserMet

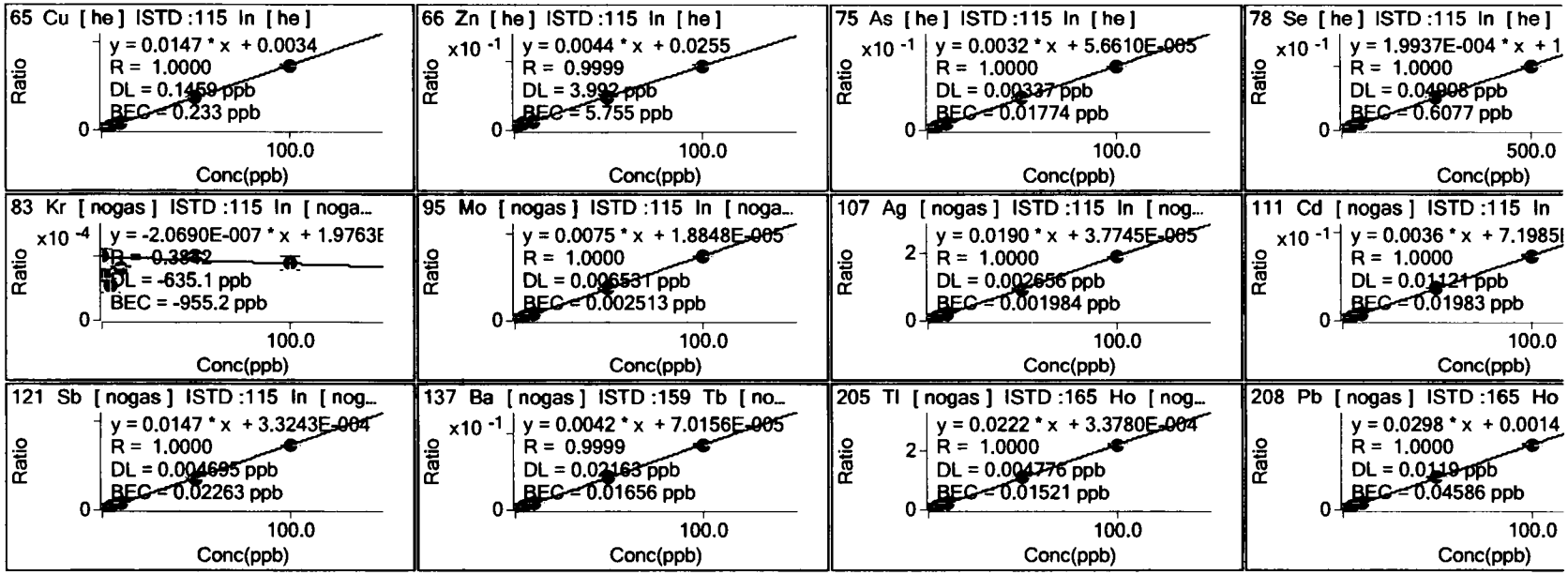
QC Analyte Table

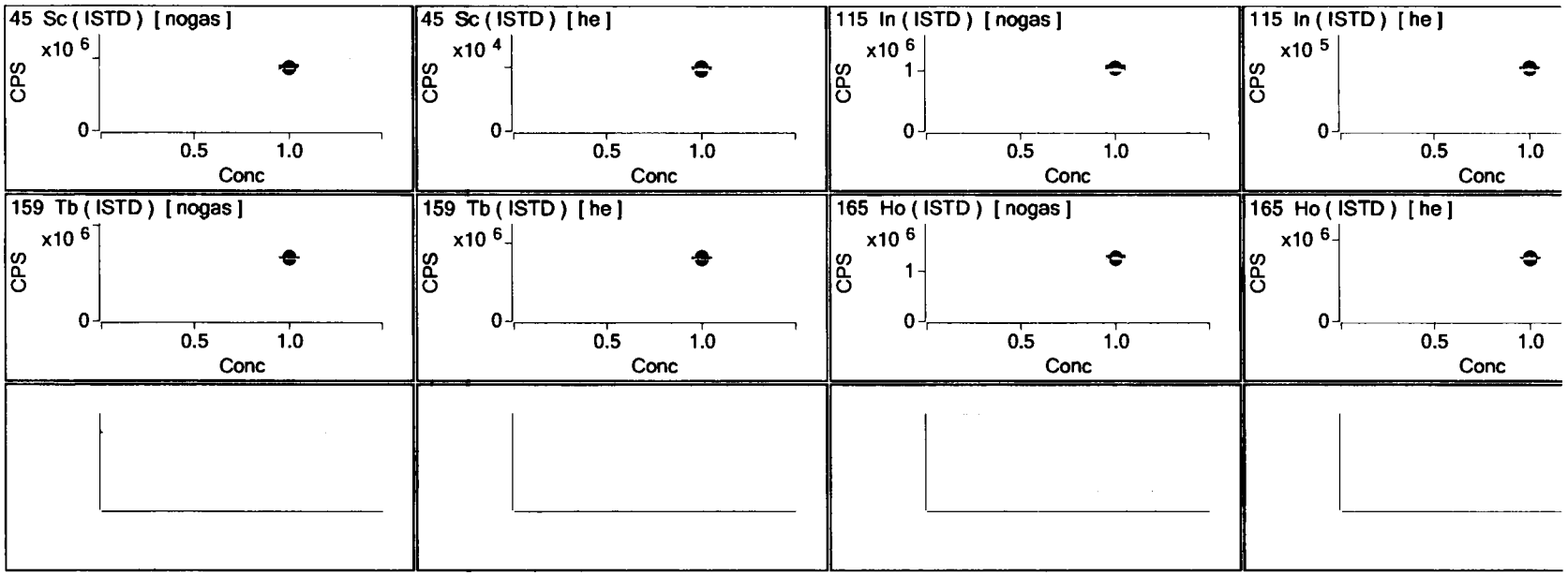
Name	Mass	ISTD	Tune	Conc.	Units	RSD	CPS	Limit	QC Flag
Be	9	165	nogas	0.023	ppb	30.9	196.67	1	
Na	23	115	he	4.132	ppb	11.7	39357.35	500	
Mg	24	115	he	0.974	ppb	7.4	910.03	500	
Al	27	115	he	0.456	ppb	7.9	233.34	200	
K	39	115	he	0.080	ppb	1048.5	29920.53	500	
Ca	44	115	he	1.208	ppb	34.8	317.78	500	
V	51	115	he	-0.019	ppb	N/A	222.23	1	
Cr	52	115	he	-0.028	ppb	N/A	837.81	2	
Mn	55	115	he	0.007	ppb	56.3	241.11	6	
Fe	56	115	he	2.277	ppb	2.9	23716.85	300	
Co	59	115	he	0.000	ppb	N/A	54.44	2	
Ni	60	115	he	0.008	ppb	111.8	85.56	3	
Cu	65	115	he	0.005	ppb	934.0	993.39	10	
Zn	66	115	he	-4.850	ppb	N/A	1136.72	20	
As	75	115	he	0.007	ppb	96.6	22.67	1	
Se	78	115	he	0.099	ppb	191.6	40.00	10	
Mo	95	115	nogas	0.016	ppb	5.5	150.00	1	
Ag	107	115	nogas	0.020	ppb	25.1	446.68	1	
Cd	111	115	nogas	-0.003	ppb	N/A	63.33	2	
Sb	121	115	nogas	0.032	ppb	18.2	853.38	3	
Ba	137	159	nogas	0.014	ppb	77.0	170.00	5	
Tl	205	165	nogas	0.074	ppb	10.9	2456.96	2	
Pb	208	165	nogas	-0.003	ppb	N/A	1593.40	3	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	Ref CPS	% Rec	%QC Low	%QC High	QC Flag
Sc	45	nogas	827563.40	1.4	862253.68	95.98	70	130	
Sc	45	he	46202.27	1.8	49835.65	92.71	70	130	
In	115	nogas	1055958.64	2.1	1063443.37	99.3	70	130	
In	115	he	283838.85	0.6	294344.35	96.43	70	130	
Tb	159	nogas	1294180.55	0.9	1326055.34	97.6	70	130	
Tb	159	he	797615.70	0.2	810680.28	98.39	70	130	
Ho	165	nogas	1234732.33	2.6	1252276.1	98.6	70	130	
Ho	165	he	771848.53	0.9	786015.96	98.2	70	130	







Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14989

Description
sulfuric acid

ApprovedBy: shiamala
ApproveDate: 12/23/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9684-03	22H0962009	12/15/22	06/27/27	Lopez, Jose	18	2.5L	neat	neat

Veritech Control/Receipt Number: 15226

Description
Nitric Acid

ApprovedBy: jean
ApproveDate: 05/05/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9368-05	1123010	04/24/23	02/16/25	Lopez, Jose	8	2.5 L	Neat	Neat

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-398235

Prepared By:	Leary, Jazmine	Department: Metals	ApprovedBy: shiamala
Description:	Hg Intermediate Standard -WARNING	BatchNumber: B-35032	ApproveDate: 07/03/23
Prep Date:	6/27/2023	Concentration: .25 ppm	Checked: Yes
Expiration Date:	6/27/2023	Final Volume: 500 ml	

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14386	MERCURY	.125 ml	1000	
15226	Nitric Acid	12.5 ml	Neat neat	
15340	DI H2O			

Veritech Lot Number: V-398236

Prepared By:	Leary, Jazmine	Department: Metals	ApprovedBy: shiamala
Description:	Hg intermediate Control -WARNING	BatchNumber: B-35032	ApproveDate: 07/03/23
Prep Date:	6/27/2023	Concentration: 1.0 ppm	Checked: Yes
Expiration Date:	6/27/2023	Final Volume: 100 ml	

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15059	Mercury	.1 ul	1000 ppm	
15226	Nitric Acid	2.5 ml	Neat neat	
15340	DI H2O			

Veritech Lot Number: V-398266

Prepared By:	Leary, Jazmine	Department: Metals	ApprovedBy: shiamala
Description:	Hg AQ ICV 20 ppb	BatchNumber: B-35034	ApproveDate: 07/03/23
Prep Date:	6/27/2023	Concentration: 20 ppb	Checked: Yes
Expiration Date:	6/27/2023	Final Volume: 25 ml	

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-398236	Hg intermediate Control -WARNING	.5 ml	1.0 ppm	
15340	DI H2O			

Veritech Lot Number: V-398267

Prepared By:	Leary, Jazmine	Department: Metals	ApprovedBy: shiamala
Description:	Hg AQ CCV 10 ppb	BatchNumber: B-35034	ApproveDate: 07/03/23
Prep Date:	6/27/2023	Concentration: 10 ppb	Checked: Yes
Expiration Date:	6/27/2023	Final Volume: 25 ml	

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-398236	Hg intermediate Control -WARNING	.25 ml	1.0 ppm	
15340	DI H2O			

Veritech Lot Number: V-398268

Prepared By:	Leary, Jazmine	Department: Metals	ApprovedBy: shiamala
Description:	Hg AQ standard blk	BatchNumber: B-35034	ApproveDate: 07/03/23
Prep Date:	6/27/2023	Concentration: 0 ppb	Checked: Yes
Expiration Date:	6/27/2023	Final Volume: 25 ml	

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-398269

Prepared By: Leary, Jazmine | Department: Metals | ApprovedBy: shiamala
Description: Hg AQ standard .5 ppb | BatchNumber: B-35034 | ApproveDate: 07/03/23
Prep Date: 6/27/2023 | Concentration: .5 ppb | Checked: Yes
Expiration Date: 6/27/2023 | Final Volume: 25 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-398235	Hg Intermediate Standard -WARNING	.05 ml	.25 ppm	
15340	DI H2O			

Veritech Lot Number: V-398270

Prepared By: Leary, Jazmine | Department: Metals | ApprovedBy: shiamala
Description: Hg AQ standard 1 ppb | BatchNumber: B-35034 | ApproveDate: 07/03/23
Prep Date: 6/27/2023 | Concentration: 1 ppb | Checked: Yes
Expiration Date: 6/27/2023 | Final Volume: 25 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-398235	Hg Intermediate Standard -WARNING	.1 ml	.25 ppm	
15340	DI H2O			

Veritech Lot Number: V-398271

Prepared By: Leary, Jazmine | Department: Metals | ApprovedBy: shiamala
Description: Hg AQ standard 2 ppb | BatchNumber: B-35034 | ApproveDate: 07/03/23
Prep Date: 6/27/2023 | Concentration: 2 ppb | Checked: Yes
Expiration Date: 6/27/2023 | Final Volume: 25 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-398235	Hg Intermediate Standard -WARNING	.2 ml	.25 ppm	
15340	DI H2O			

Veritech Lot Number: V-398272

Prepared By: Leary, Jazmine | Department: Metals | ApprovedBy: shiamala
Description: Hg AQ standard 5 ppb | BatchNumber: B-35034 | ApproveDate: 07/03/23
Prep Date: 6/27/2023 | Concentration: 5 ppb | Checked: Yes
Expiration Date: 6/27/2023 | Final Volume: 25 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-398235	Hg Intermediate Standard -WARNING	.5 ml	.25 ppm	
15340	DI H2O			

Veritech Lot Number: V-398273

Prepared By: Leary, Jazmine | Department: Metals | ApprovedBy: shiamala
Description: Hg AQ standard 10 ppb | BatchNumber: B-35034 | ApproveDate: 07/03/23
Prep Date: 6/27/2023 | Concentration: 10 ppb | Checked: Yes
Expiration Date: 6/27/2023 | Final Volume: 25 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
V-398235	Hg Intermediate Standard -WARNING	1 ml	.25 ppm	

Veritech Lot Number: V-398274

Prepared By: Leary, Jazmine | Department: Metals | ApprovedBy: shiamala
Description: Hg AQ standard 25 ppb | BatchNumber: B-35034 | ApproveDate: 07/03/23
Prep Date: 6/27/2023 | Concentration: 25 ppb | Checked: Yes
Expiration Date: 6/27/2023 | Final Volume: 25 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15340	DI H2O			
V-398235	Hg Intermediate Standard -WARNING	2.5 ml	.25 ppm	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14386

Description
MERCURY

ApprovedBy: carmela
ApproveDate: 07/25/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SCP Science	140-051-801	S210729017	01/03/22	07/30/23	Aliano, Carmela	1	125m	1000	

Veritech Control/Receipt Number: 15059

Description
Mercury

ApprovedBy: shiamala
ApproveDate: 01/25/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLHG4-2Y	26-57HGY	01/25/23	01/30/24	Balashanthan, Shi	2	125ml	1000	ppm

Veritech Control/Receipt Number: 15226

Description
Nitric Acid

ApprovedBy: jean
ApproveDate: 05/05/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9368-05	1123010	04/24/23	02/16/25	Lopez, Jose	8	2.5 L	Neat	Neat

Veritech Control/Receipt Number: 15340

Description
DI H2O

ApprovedBy: jessica
ApproveDate: 06/25/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
EVOQUA	1	1	06/01/23	06/01/24	Cousineau, Paul	1			

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-393823

Prepared By: Concordo, Joel
Description: 5% Potassium Permanganate WARNIN
Prep Date: 4/18/2023
Expiration Date: 7/17/2023
Department: Metals
BatchNumber:
Concentration: reagent reage
Final Volume: 20 l
ApprovedBy: shiamala
ApproveDate: 04/25/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14736	DI H2O			
14463	Potassium Permanganate	1000 g	neat neat	

Veritech Lot Number: V-395509

Prepared By: Leary, Jazmine
Description: Hydroxylamine Hydrochloride WARNIN
Prep Date: 5/16/2023
Expiration Date: 7/17/2023
Department: Metals
BatchNumber:
Concentration: reagent reage
Final Volume: 10 l
ApprovedBy: shiamala
ApproveDate: 05/26/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
14736	DI H2O			
14484	Sodium Chloride	1200 g	NEAT neat	
14938	Hydroxylamine Hydrochloride	1200 g	neat kg	

Veritech Lot Number: V-397287

Prepared By: Leary, Jazmine
Description: 3% HCL WARNING
Prep Date: 6/14/2023
Expiration Date: 12/14/2023
Department: WetChem
BatchNumber:
Concentration: 3 %
Final Volume: 10 l
ApprovedBy: shiamala
ApproveDate: 06/20/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15244	Hydrochloric Acid	300 ml	Neat neat	3%
15340	DI H2O			

Veritech Lot Number: V-398236

Prepared By: Leary, Jazmine
Description: Hg intermediate Control -WARNING
Prep Date: 6/27/2023
Expiration Date: 6/27/2023
Department: Metals
BatchNumber: B-35032
Concentration: 1.0 ppm
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 07/03/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
15059	Mercury	.1 ul	1000 ppm	
15226	Nitric Acid	2.5 ml	Neat neat	
15340	DI H2O			

Veritech Lot Number: V-398523

Prepared By: Leary, Jazmine
Description: SnCl2 "WARNING:"
Prep Date: 6/30/2023
Expiration Date: 6/30/2023
Department: Metals
BatchNumber:
Concentration: reagent I
Final Volume: 2 l
ApprovedBy: shiamala
ApproveDate: 07/03/23
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-397287	3% HCL WARNING	2000 ml	3 %	
15212	Stannous Chloride	26.4 g	neat kg	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 14463

Description
Potassium Permanganate

ApprovedBy: carmela
ApproveDate: 07/25/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Laboratory Sales	LC-T10208	200812-C	02/28/22	02/28/32	Cousineau, Paul	1	2.5kG	neat	neat

Veritech Control/Receipt Number: 14484

Description
Sodium Chloride

ApprovedBy: carmela
ApproveDate: 07/25/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
EMD	LS-1559300	20I165203	03/10/22	04/01/26	Cousineau, Paul	1	12kg	NEAT	NEAT

Veritech Control/Receipt Number: 14736

Description
DI H2O

ApprovedBy: janee
ApproveDate: 08/01/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
EVOQUA	1	1	07/18/22	07/17/23	Trivedi, Beena	1			

Veritech Control/Receipt Number: 14938

Description
Hydroxylamine Hydrochloride

ApprovedBy: shiamala
ApproveDate: 12/23/22
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Lab Sales	LS-1580015	220317-2C	11/16/22	11/16/23	Leary, Jazmine	1	2.5 K	neat	Kg

Veritech Control/Receipt Number: 15059

Description
Mercury

ApprovedBy: shiamala
ApproveDate: 01/25/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	PLHG4-2Y	26-57HGY	01/25/23	01/30/24	Balashanthan, Shi	2	125ml	1000	ppm

Veritech Control/Receipt Number: 15212

Description
Stannous Chloride

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Lab Sales	LC-P33805	221209-1A	04/01/23	04/30/24	Cousineau, Paul	3	KG	neat	KG

Veritech Control/Receipt Number: 15226

Description
Nitric Acid

ApprovedBy: jean
ApproveDate: 05/05/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9368-05	1123010	04/24/23	02/16/25	Lopez, Jose	8	2.5 L	Neat	Neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 15244

Description
Hydrochloric Acid

ApprovedBy: akmal
ApproveDate: 06/13/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J . T , BAKER	9539-05	23B1462010	04/28/23	08/17/24	Cajuste, Pierre	16	2.5 L	Neat	Neat

Veritech Control/Receipt Number: 15340

Description
DI H2O

ApprovedBy: jessica
ApproveDate: 06/25/23
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
EVOQUA	1	1	06/01/23	06/01/24	Cousineau, Paul	1			

$SnCl_2$ v-398523
SW 6/30/23 JL

Analysis Begun

Logged In Analyst: usermet
Technique: AA FIMS-MHS
Spectrometer Model: FIMS-100, S/N B050-9550
Autosampler Model: AS-90

6/30/23

Sample Information File: C:\data-AA\johns\Sample Information\H29906SW.sif
Batch ID: H29906SW
Results Data Set: H29906SW
Results Library: C:\data-AA\johns\Results\Results.mdb

Method Loaded
Method Name: HgCV3 SW846New 7470A
Method Last Saved: 6/30/2023 7:39:11 AM
Method Description: HgCV3 SW846 New (7470A)

Sequence No.: 1
Autosampler Location: 1
Sample ID: CALBLK V-398268
Date Collected: 6/30/2023 7:48:56 AM
Analyst:
Data Type: Original

Replicate Data: CALBLK V-398268

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0004	0.0033	0.0004	07:49:43	Yes
2		[0.00]	0.0004	0.0024	0.0004	07:50:16	Yes
Mean:		[0.00]	0.0004				
SD:		0.00	0.0001				
%RSD:		0.00	16.84				

Auto-zero performed.

Sequence No.: 2
Autosampler Location: 2
Sample ID: .5 PPB V-398269
Date Collected: 6/30/2023 7:50:17 AM
Analyst:
Data Type: Original

Replicate Data: .5 PPB V-398269

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.5]	0.0008	0.0076	0.0012	07:51:03	Yes
2		[0.5]	0.0008	0.0076	0.0012	07:51:35	Yes
Mean:		[0.5]	0.0008				
SD:		0.0	0.0000				
%RSD:		0.0	2.88				

Standard number 1 applied. [0.5]
Correlation Coef.: 1.000000 Slope: 0.00160 Intercept: 0.00000

Sequence No.: 3
Autosampler Location: 3
Sample ID: 1 PPB V-398270
Date Collected: 6/30/2023 7:51:36 AM
Analyst:
Data Type: Original

Replicate Data: 1 PPB V-398270

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[1]	0.0016	0.0125	0.0020	07:52:22	Yes
2		[1]	0.0016	0.0122	0.0020	07:52:55	Yes
Mean:		[1]	0.0016				
SD:		0	0.0000				
%RSD:		0	0.11				

Standard number 2 applied. [1]
Correlation Coef.: 0.999829 Slope: 0.00165 Intercept: -0.00001

Sequence No.: 4
Autosampler Location: 4
Sample ID: 2 PPB V-398271
Date Collected: 6/30/2023 7:52:56 AM
Analyst:
Data Type: Original

Replicate Data: 2 PPB V-398271

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

1	[2]	0.0035	0.0229	0.0039	07:53:42	Yes
2	[2]	0.0034	0.0221	0.0038	07:54:15	Yes
Mean:	[2]	0.0035				
SD:	0	0.0001				
%RSD:	0	1.98				

Standard number 3 applied. [2]
Correlation Coef.: 0.999534 Slope: 0.00174 Intercept: -0.00005

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: 5 PPB V-398272 **Date Collected: 6/30/2023 7:54:16 AM**
Analyst: **Data Type: Original**

Replicate Data: 5 PPB V-398272

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5]	0.0090	0.0539	0.0094	07:55:02	Yes
2		[5]	0.0089	0.0520	0.0093	07:55:35	Yes
Mean:		[5]	0.0090				
SD:		0	0.0001				
%RSD:		0	1.19				

Standard number 4 applied. [5]
Correlation Coef.: 0.999838 Slope: 0.00181 Intercept: -0.00009

Sequence No.: 6 **Autosampler Location: 6**
Sample ID: 10 PPB V-398273 **Date Collected: 6/30/2023 7:55:36 AM**
Analyst: **Data Type: Original**

Replicate Data: 10 PPB V-398273

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10]	0.0187	0.1085	0.0191	07:56:22	Yes
2		[10]	0.0186	0.1062	0.0190	07:56:55	Yes
Mean:		[10]	0.0187				
SD:		0	0.0001				
%RSD:		0	0.28				

Standard number 5 applied. [10]
Correlation Coef.: 0.999794 Slope: 0.00187 Intercept: -0.00018

Sequence No.: 7 **Autosampler Location: 7**
Sample ID: 25 PPB V-398274 **Date Collected: 6/30/2023 7:57:20 AM**
Analyst: **Data Type: Original**

Replicate Data: 25 PPB V-398274

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[25]	0.0482	0.2748	0.0486	07:58:10	Yes
2		[25]	0.0484	0.2713	0.0488	07:58:42	Yes
Mean:		[25]	0.0483				
SD:		0	0.0001				
%RSD:		0	0.25				

Standard number 6 applied. [25]
Correlation Coef.: 0.999876 Slope: 0.00194 Intercept: -0.00034

Calibration data for Hg 253.7 **Equation: Linear, Calculated Intercept**

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
CALBLK V-398268	0.0000	0	0.176	0.00	16.8
.5 PPB V-398269	0.0008	0.5	0.588	0.00	2.9
1 PPB V-398270	0.0016	1.0	1.027	0.00	0.1
2 PPB V-398271	0.0035	2.0	1.968	0.00	2.0
5 PPB V-398272	0.0090	5.0	4.810	0.00	1.2
10 PPB V-398273	0.0187	10.0	9.821	0.00	0.3
25 PPB V-398274	0.0483	25.0	25.109	0.00	0.2

Correlation Coef.: 0.999876 Slope: 0.00194 Intercept: -0.00034

Sequence No.: 8 **Autosampler Location: 10**
Sample ID: ICV (2) V-398266 **Date Collected: 6/30/2023 7:59:08 AM**

Analyst: Data Type: Original

Replicate Data: ICV (2) V-398266

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	19.73	19.73	0.0379	0.2153	0.0383	07:59:55	Yes
2	19.51	19.51	0.0374	0.2086	0.0378	08:00:28	Yes
Mean:	19.62	19.62	0.0377				
SD:	0.156	0.156	0.0003				
%RSD:	0.797	0.797	0.80				

QC value within limits for Hg 253.7 Recovery = 98.11%
All analyte(s) passed QC.

==========

Sequence No.: 9 Autosampler Location: 1
Sample ID: ICB V-398268 Date Collected: 6/30/2023 8:00:51 AM
Analyst: Data Type: Original

Replicate Data: ICB V-398268

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.108	0.108	-0.0001	0.0014	0.0003	08:01:38	Yes
2	0.118	0.118	-0.0001	0.0016	0.0003	08:02:10	Yes
Mean:	0.113	0.113	-0.0001				
SD:	0.008	0.008	0.0000				
%RSD:	6.700	6.700	11.99				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 10 Autosampler Location: 11
Sample ID: MB 107918 (1) Date Collected: 6/30/2023 8:02:11 AM
Analyst: Data Type: Original

Replicate Data: MB 107918 (1)

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.135	0.135	-0.0001	0.0015	0.0003	08:02:58	Yes
2	0.123	0.123	-0.0001	0.0013	0.0003	08:03:30	Yes
Mean:	0.129	0.129	-0.0001				
SD:	0.008	0.008	0.0000				
%RSD:	6.527	6.527	18.00				

==========

Sequence No.: 11 Autosampler Location: 12
Sample ID: LCS 107918 Date Collected: 6/30/2023 8:03:32 AM
Analyst: Data Type: Original

Replicate Data: LCS 107918

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	9.768	9.768	0.0186	0.1066	0.0190	08:04:17	Yes
2	9.542	9.542	0.0181	0.1023	0.0185	08:04:50	Yes
Mean:	9.655	9.655	0.0184				
SD:	0.160	0.160	0.0003				
%RSD:	1.656	1.656	1.69				

==========

Sequence No.: 12 Autosampler Location: 13
Sample ID: LCS MR 107918 Date Collected: 6/30/2023 8:05:14 AM
Analyst: Data Type: Original

Replicate Data: LCS MR 107918

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	11.44	11.44	0.0218	0.1238	0.0222	08:06:02	Yes
2	10.46	10.46	0.0199	0.1119	0.0203	08:06:34	Yes
Mean:	10.95	10.95	0.0209				
SD:	0.694	0.694	0.0013				
%RSD:	6.341	6.341	6.44				

Sequence No.: 13 Autosampler Location: 14
Sample ID: AD38798-002 Date Collected: 6/30/2023 8:06:58 AM
Analyst: Data Type: Original

Replicate Data: AD38798-002

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.068	0.068	-0.0002	0.0005	0.0002	08:07:47	Yes
2	0.118	0.118	-0.0001	0.0014	0.0003	08:08:19	Yes
Mean:	0.093	0.093	-0.0002				
SD:	0.035	0.035	0.0001				
%RSD:	37.54	37.54	42.18				

Sequence No.: 14 Autosampler Location: 15
Sample ID: AD38798-002 MR Date Collected: 6/30/2023 8:08:21 AM
Analyst: Data Type: Original

Replicate Data: AD38798-002 MR

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.107	0.107	-0.0001	0.0010	0.0003	08:09:06	Yes
2	0.130	0.130	-0.0001	0.0016	0.0003	08:09:39	Yes
Mean:	0.118	0.118	-0.0001				
SD:	0.016	0.016	0.0000				
%RSD:	13.57	13.57	27.77				

Sequence No.: 15 Autosampler Location: 16
Sample ID: AD38798-004 MS1 Date Collected: 6/30/2023 8:09:40 AM
Analyst: Data Type: Original

Replicate Data: AD38798-004 MS1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	9.851	9.851	0.0187	0.1065	0.0191	08:10:25	Yes
2	9.713	9.713	0.0185	0.1030	0.0189	08:10:58	Yes
Mean:	9.782	9.782	0.0186				
SD:	0.098	0.098	0.0002				
%RSD:	0.999	0.999	1.02				

Sequence No.: 16 Autosampler Location: 17
Sample ID: AD38798-005 MS2 Date Collected: 6/30/2023 8:11:23 AM
Analyst: Data Type: Original

Replicate Data: AD38798-005 MS2

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.25	10.25	0.0195	0.1103	0.0199	08:12:13	Yes
2	9.808	9.808	0.0187	0.1041	0.0191	08:12:45	Yes
Mean:	10.03	10.03	0.0191				
SD:	0.315	0.315	0.0006				
%RSD:	3.137	3.137	3.19				

Sequence No.: 17 Autosampler Location: 18
Sample ID: AD38798-001 Date Collected: 6/30/2023 8:13:11 AM
Analyst: Data Type: Original

Replicate Data: AD38798-001

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.101	0.101	-0.0001	0.0009	0.0003	08:14:01	Yes
2	0.078	0.078	-0.0002	0.0008	0.0002	08:14:33	Yes
Mean:	0.089	0.089	-0.0002				
SD:	0.016	0.016	0.0000				
%RSD:	17.99	17.99	18.51				

Sequence No.: 18 Autosampler Location: 19
Sample ID: AD38798-003 Date Collected: 6/30/2023 8:14:34 AM
Analyst: Data Type: Original

Replicate Data: AD38798-003

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.096	0.096	-0.0002	0.0013	0.0002	08:15:23	Yes
2	0.096	0.096	-0.0002	0.0010	0.0002	08:15:56	Yes
Mean:	0.096	0.096	-0.0002				
SD:	0.000	0.000	0.0000				
%RSD:	0.466	0.466	0.56				

Sequence No.: 19 Autosampler Location: 20
Sample ID: AD38798-006 Date Collected: 6/30/2023 8:15:57 AM
Analyst: Data Type: Original

Replicate Data: AD38798-006

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.110	0.110	-0.0001	0.0012	0.0003	08:16:42	Yes
2	0.096	0.096	-0.0002	0.0009	0.0002	08:17:15	Yes
Mean:	0.103	0.103	-0.0001				
SD:	0.010	0.010	0.0000				
%RSD:	9.717	9.717	13.65				

Sequence No.: 20 Autosampler Location: 9
Sample ID: CCV V-398267 Date Collected: 6/30/2023 8:17:16 AM
Analyst: Data Type: Original

Replicate Data: CCV V-398267

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.65	10.65	0.0203	0.1143	0.0207	08:18:03	Yes
2	10.45	10.45	0.0199	0.1101	0.0203	08:18:35	Yes
Mean:	10.55	10.55	0.0201				
SD:	0.147	0.147	0.0003				
%RSD:	1.397	1.397	1.42				

QC value within limits for Hg 253.7 Recovery = 105.51%
All analyte(s) passed QC.

Sequence No.: 21 Autosampler Location: 1
Sample ID: CCB V-398268 Date Collected: 6/30/2023 8:18:58 AM
Analyst: Data Type: Original

Replicate Data: CCB V-398268

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.082	0.082	-0.0002	0.0002	0.0002	08:19:45	Yes
2	0.103	0.103	-0.0001	0.0013	0.0003	08:20:17	Yes
Mean:	0.093	0.093	-0.0002				
SD:	0.015	0.015	0.0000				
%RSD:	16.26	16.26	18.13				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 22 Autosampler Location: 21
Sample ID: AD38798-007 Date Collected: 6/30/2023 8:20:18 AM
Analyst: Data Type: Original

Replicate Data: AD38798-007

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.120	0.120	-0.0001	0.0010	0.0003	08:21:05	Yes
2	0.107	0.107	-0.0001	0.0007	0.0003	08:21:38	Yes
Mean:	0.113	0.113	-0.0001				
SD:	0.009	0.009	0.0000				

%RSD: 8.018 8.018 14.50

Sequence No.: 23 Autosampler Location: 22
Sample ID: AD38796-001 Date Collected: 6/30/2023 8:21:39 AM
Analyst: Data Type: Original

Replicate Data: AD38796-001

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.062	0.062	-0.0002	0.0003	0.0002	08:22:25	Yes
2	0.085	0.085	-0.0002	0.0005	0.0002	08:22:57	Yes
Mean:	0.074	0.074	-0.0002				
SD:	0.016	0.016	0.0000				
%RSD:	22.24	22.24	16.01				

Sequence No.: 24 Autosampler Location: 9
Sample ID: CCV V-398267 Date Collected: 6/30/2023 8:22:58 AM
Analyst: Data Type: Original

Replicate Data: CCV V-398267

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.53	10.53	0.0200	0.1118	0.0204	08:23:45	Yes
2	10.33	10.33	0.0197	0.1084	0.0201	08:24:18	Yes
Mean:	10.43	10.43	0.0198				
SD:	0.142	0.142	0.0003				
%RSD:	1.359	1.359	1.38				

QC value within limits for Hg 253.7 Recovery = 104.25%
All analyte(s) passed QC.

Sequence No.: 25 Autosampler Location: 1
Sample ID: CCB V-398268 Date Collected: 6/30/2023 8:24:40 AM
Analyst: Data Type: Original

Replicate Data: CCB V-398268

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.057	0.057	-0.0002	-0.0001	0.0002	08:25:27	Yes
2	0.088	0.088	-0.0002	0.0005	0.0002	08:25:59	Yes
Mean:	0.072	0.072	-0.0002				
SD:	0.023	0.023	0.0000				
%RSD:	31.18	31.18	21.82				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Metal Data
Digestion Logbook Data

Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: (3010A) 3005A 3050B 200.7/200.8 OTHER_____

Batch No.: 299016 Analyst: JL

QC Number: 107918 Prep Date: 6/27/23

Matrix: SW1020 Reviewed By: R

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	50ml	50ml	10ml	20ml		--	
LCS						--	
LCSD						--	
1. 38798-002							Samples are combined prior to analysis to provide extra sample volume for analysis
1. Analytical Duplicate							
MR -002							
MS -004							Balance used: —
MSD -005							Pipettes used: 149, 153
2. -001							
3. -003							Hot Block used: 9
4. -006							
5. -007							
6. 38796-001							
7.							
8.							
9.							
10.							
11.							
12.							
13.							
14.							
15.							
16.							
17.							
18.							
19.							
20.							

Hot Plate Temperature: 93.7 C (90-95° C) Start Time: 7:30 End Time: 11

	Volume mL	Lot #
LCS, LCSD	.25	V-14857, 14858, 397171
LLLCS, LLLCSD		V-
MS, MSD	.25	V-14857, 14858, 397171
LLMS, LLMSD		V-

Acid	Vol mL	Lot#
HNO_3	3	V-15243
HCl		V-
H_2O_2		V-

Acid	Vol mL	Lot#
1:1 HNO_3		V-
1:1 HCl	5	V-396397

Relinquished By JL Date 6/27/23

Received By R Date 6/27/23

T:\QC\FORMS\LOGBOOK FORMS\METALS\ICP sample prep log 2018 DOD.DOC

HG SAMPLE PREPARATION LOG

Hampton-Clarke/Veritech

ANALYTICAL METHOD: 245.1 (7470A) 7471B **OTHER**_____

Batch No.:* 29906 Analyst: JL

QC Number: 107918 Prep Date: 6/27/23

Matrix: SW Review By: PL

LAB ID#	MERCURY INITIAL	MERCURY FINAL	COMMENTS	STANDARDS
Method blank	25ml	25ml		CAL CURVE BLK 0ppb V- 398268
LCS				
LCSD				STD 0.2 ppb V- —
1 38798-002				STD 0.5 ppb V- 398269
MR -002				STD 1.0 ppb V- 398270
MS -004				STD 2.0 ppb V- 398271
MSD -005				STD 5.0 ppb V- 398272
2 -001				STD 10.0 ppb V- 398273
3 -003				STD 25.0 ppb V- 398274
4 -006				ICV 10.0 ppb V- 398266
5 -007				CCV 20.0 ppb V- 398267
6 38796-001				
7				
7				Balance used: —
9				Pipettes used: 143, 153, 159
10				
10				Hot Block used: 7
10				
10				
10				
10				
16				
17				
18				
18				
13				

Lot Numbers	Volume (mL)	Acid	Volume (mL)	Lot #
$KmnO_4$: V- 393823	3.75	HNO_3	.625	V- 152246
$K_2S_2O_8$: V- 395943	2	HCl		V-
NH_2OH: V- 395509	1.5	H_2SO_4	1.25	V- 14989
		Aqua Regia		V-

**Block Temp.: 94 °C

Time In Block: 7:50

Time Out of Block: 9:50

Spike Volume & Lot #

LCS V- 398236 0.15g / (0.25 ml)

MS V- 398236 0.250 ml

☐ Standards/Control Batch B-35034

StartTime: 7:30

EndTime: 9:50

**Temperature

245.1 / 7470A: 90-95C

7471B : 92-98C

Relinquished By: JL

*25 mLs of each standard was digested with this batch using the same reagents and at the same time as the above samples. The preparation of each standard may be referenced in Veriprog using the standard batch number and the corresponding V #s.

Hampton-Clarke
Analytical & Field Services

Last Page of Report

APPENDIX D
Data Usability Summary Reports (DUSRs)

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
510-514 WEST LIBERTY STREET, NEW YORK

Client: HRP Associates, In., Clifton Park, New York
SDG: AD38537/3061310
Laboratory: Hampton-Clarke Analytical, Fairfield, New Jersey
Site: 510-514 West Liberty Street, Rome, New York
Date: October 29, 2023

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	SB-1 10-14	AD38537-001	Soil
1MS*	SB-1 10-14MS	AD38537-001MS	Soil
1MSD*	SB-1 10-14MSD	AD38537-001MSD	Soil
2	SB-3 0-5	AD38537-002	Soil
3	SB-4 10-12.5	AD38537-003	Soil
4	SB-5 5-10	AD38537-004	Soil
5	SB-6 10-11	AD38537-005	Soil
6	SB-7 0.5-1	AD38537-006	Soil
7	SB-8 0-2	AD38537-007	Soil
8	SB-9 10-12	AD38537-008	Soil

* - Metals/Hg only

A Data Usability Summary Review was performed on the analytical data for eight soil samples collected on June 13, 2023 by HRP at the 510-514 W. Liberty Street site in Rome, New York. The samples were analyzed under Environmental Protection Agency (USEPA) "Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions".

Specific method references are as follows:

Analysis	*Method References*
VOC	USEPA SW-846 Method 8260D
SVOC	USEPA SW-846 Method 8270E
Metals/Mercury	USEPA SW-846 Method 6020B/7471B

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number HW-33A, Revision 1, September 2016: Low/Medium Volatile Data Validation;
- SOP Number HW-35A, Revision 1, September 2016: Semivolatile Data Validation;
- SOP Number HW-3b, Revision 1, September 2016: ICP-MS Data Validation;

- SOP Number HW-3c, Revision 1, September 2016: Mercury and Cyanide Data Validation;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

Organics

- Data Completeness
- Holding times and sample preservation
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Method blank and field blank contamination
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning
- Initial and continuing calibration summaries
- Compound Quantitation
- Internal standard area and retention time summary forms
- Tentatively Identified Compounds (TICs)
- Field Duplicate sample precision

Inorganics

- Data Completeness
- Holding times and sample preservation
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Duplicate Sample Analysis recoveries
- Laboratory Control Sample (LCS) recoveries
- Method blank and field blank contamination
- Initial and continuing calibration verifications
- Compound Quantitation
- ICP Serial Dilution
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Volatile Organic Compounds (VOCs)

Holding Times

- All samples were analyzed within 14 days for soil samples.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The following table presents LCS percent recoveries (%R) outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

LCS ID	Compound	%R	Qualifier	Affected Samples
MBS109403	1,1,2-Trichloro-1,2,2-trifluoroethene	177%	None	All Associated ND
	Carbon Tetrachloride	157%		
MBS109413	Tetrachloroethene	153%	None	All Associated ND
	1,2,4-Trichlorobenzene	148%		
	1,2,3-Trichlorobenzene	142%		

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not collected.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients and mean RRF values.

Continuing Calibration

- The following table presents compounds that exceeded percent difference (%D) and/or RRF values <0.05 (0.01 for poor performers) in the continuing calibration (CCAL). A low RRF indicates poor instrument sensitivity for these compounds. Positive results for these compounds in the affected samples are considered estimated and qualified (J). Non-detect results for these compounds in the affected samples are rejected (R) and are unusable for project objectives. A high %D may indicate a potential high or low bias. All results for these compounds in affected samples are considered estimated and qualified (J/UJ).

CCAL Date	Compound	%D/RRF	Qualifier	Affected Samples
06/13/23 (2145)	Trichlorofluoromethane	58.1%	UJ	All Samples
	1,1,2-Trichloro-1,2,2-trifluoroethene	61.3%		
	Acetone	21.9%	J/UJ	
	Methyl Acetate	42.9%		
	Methylcyclohexane	28.8%	UJ	
	2-Hexanone	21.5%		
	1,2,4-Trichlorobenzene	33.0%		

Compound Quantitation

- All criteria were met.

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Semivolatile Organic Compounds (SVOC)

Holding Times

- All samples were extracted within 14 days for soil samples and analyzed within 40 days.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not collected.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients and mean RRF values.

Continuing Calibration

- All %D criteria were met.

Compound Quantitation

- All criteria were met.

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Metals, Mercury

Holding Times

- All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

MS/MSD Sample ID	Compound	MS %R/MSD %R/RPD	Qualifier	Affected samples
1	Antimony	59%/59%/OK	UJ	All Samples

Duplicate Sample Analysis

- Duplicate samples were not analyzed.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not collected.

Initial Calibration Verification

- All initial calibration criteria were met.

Continuing Calibration Verification

- All continuing calibration criteria were met.

Compound Quantitation

- All criteria were met.

ICP Serial Dilution

- An ICP serial dilution exhibited acceptable percent differences (%D).

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 10/31/23

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38537-001
Client Id: SB-1 10-14
Data File: 1M174866.D
Analysis Date: 06/14/23 15:43
Date Rec/Extracted: 06/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 6g
Final Vol: NA
Dilution: 0.833
Solids: 91

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0018	U	56-23-5	Carbon Tetrachloride	0.0018	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0018	U	108-90-7	Chlorobenzene	0.0018	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0018	U	75-00-3	Chloroethane	0.0018	U
79-00-5	1,1,2-Trichloroethane	0.0018	U	67-66-3	Chloroform	0.0018	U
75-34-3	1,1-Dichloroethane	0.0018	U	74-87-3	Chloromethane	0.0018	U
75-35-4	1,1-Dichloroethene	0.0018	U	156-59-2	cis-1,2-Dichloroethene	0.0018	U
87-61-6	1,2,3-Trichlorobenzene	0.0018	U	10061-01-5	cis-1,3-Dichloropropene	0.0018	U
120-82-1	1,2,4-Trichlorobenzene	0.0018	U	110-82-7	Cyclohexane	0.0018	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0018	U	124-48-1	Dibromochloromethane	0.0018	U
106-93-4	1,2-Dibromoethane	0.00060	U	75-71-8	Dichlorodifluoromethane	0.0018	U
95-50-1	1,2-Dichlorobenzene	0.0018	U	100-41-4	Ethylbenzene	0.00092	U
107-06-2	1,2-Dichloroethane	0.0018	U	98-82-8	Isopropylbenzene	0.00092	U
78-87-5	1,2-Dichloropropane	0.0018	U	79601-23-1	m&p-Xylenes	0.0013	U
541-73-1	1,3-Dichlorobenzene	0.0018	U	**79-20-9**	**Methyl Acetate**	**0.0018**	**0.0042** J
106-46-7	1,4-Dichlorobenzene	0.0018	U	108-87-2	Methylcyclohexane	0.0018	U
123-91-1	1,4-Dioxane	0.092	U	**75-09-2**	**Methylene Chloride**	**0.0018**	**0.0062**
78-93-3	2-Butanone	0.0018	U	1634-04-4	Methyl-t-butyl ether	0.00092	U
591-78-6	2-Hexanone	0.0018	U	95-47-6	o-Xylene	0.00092	U
108-10-1	4-Methyl-2-Pentanone	0.0018	U	100-42-5	Styrene	0.0018	U
67-64-1	Acetone	0.0092	U	127-18-4	Tetrachloroethene	0.0018	U
71-43-2	Benzene	0.00092	U	108-88-3	Toluene	0.00092	U
74-97-5	Bromochloromethane	0.0018	U	156-60-5	trans-1,2-Dichloroethene	0.0018	U
75-27-4	Bromodichloromethane	0.0018	U	10061-02-6	trans-1,3-Dichloropropene	0.0018	U
75-25-2	Bromoform	0.0018	U	79-01-6	Trichloroethene	0.0018	U
74-83-9	Bromomethane	0.0018	U	75-69-4	Trichlorofluoromethane	0.0018	U
75-15-0	Carbon Disulfide	0.0018	U	75-01-4	Vinyl Chloride	0.0018	U
1330-20-7	Xylenes (Total)	0.00092	U				

Worksheet #: 696062

Total Target Concentration 0.01

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MW 10/29/23

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38537-002
Client Id: SB-3 0-5
Data File: 1M174836.D
Analysis Date: 06/14/23 05:04
Date Rec/Extracted: 06/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5.76g
Final Vol: NA
Dilution: 0.868
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	56-23-5	Carbon Tetrachloride	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	~~U~~ UJ	75-00-3	Chloroethane	0.0020	U
79-00-5	1,1,2-Trichloroethane	0.0020	U	67-66-3	Chloroform	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	74-87-3	Chloromethane	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	156-59-2	cis-1,2-Dichloroethene	0.0020	U
87-61-6	1,2,3-Trichlorobenzene	0.0020	U	10061-01-5	cis-1,3-Dichloropropene	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	~~U~~ UJ	110-82-7	Cyclohexane	0.0020	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
106-93-4	1,2-Dibromoethane	0.00063	U	75-71-8	Dichlorodifluoromethane	0.0020	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	100-41-4	Ethylbenzene	0.00098	U
107-06-2	1,2-Dichloroethane	0.0020	U	98-82-8	Isopropylbenzene	0.00098	U
78-87-5	1,2-Dichloropropane	0.0020	U	79601-23-1	m&p-Xylenes	0.0014	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	79-20-9	Methyl Acetate	0.0020	~~U~~ UJ
106-46-7	1,4-Dichlorobenzene	0.0020	U	108-87-2	Methylcyclohexane	0.0020	~~U~~ UJ
123-91-1	1,4-Dioxane	0.098	U	75-09-2	Methylene Chloride	0.0020	U
78-93-3	2-Butanone	0.0020	U	1634-04-4	Methyl-t-butyl ether	0.00098	U
591-78-6	2-Hexanone	0.0020	~~U~~ UJ	95-47-6	o-Xylene	0.00098	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	100-42-5	Styrene	0.0020	U
67-64-1	Acetone	0.0098	~~U~~ UJ	127-18-4	Tetrachloroethene	0.0020	U
71-43-2	Benzene	0.00098	U	108-88-3	Toluene	0.00098	U
74-97-5	Bromochloromethane	0.0020	U	156-60-5	trans-1,2-Dichloroethene	0.0020	U
75-27-4	Bromodichloromethane	0.0020	U	10061-02-6	trans-1,3-Dichloropropene	0.0020	U
75-25-2	Bromoform	0.0020	U	79-01-6	Trichloroethene	0.0020	U
74-83-9	Bromomethane	0.0020	U	75-69-4	Trichlorofluoromethane	0.0020	~~U~~ UJ
75-15-0	Carbon Disulfide	0.0020	U	75-01-4	Vinyl Chloride	0.0020	U
1330-20-7	Xylenes (Total)	0.00098	U				

Worksheet #: 696057

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MSL 6/29/23

Form1

ORGANICS VOLATILE REPORT

3

Sample Number: AD38537-003
Client Id: SB-4 10-12.5
Data File: 1M174837.D
Analysis Date: 06/14/23 05:25
Date Rec/Extracted: 06/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 7.04g
Final Vol: NA
Dilution: 0.710
Solids: 84

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0017	U	56-23-5	Carbon Tetrachloride	0.0017	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0017	U	108-90-7	Chlorobenzene	0.0017	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0017	~~U~~ UJ	75-00-3	Chloroethane	0.0017	U
79-00-5	1,1,2-Trichloroethane	0.0017	U	67-66-3	Chloroform	0.0017	U
75-34-3	1,1-Dichloroethane	0.0017	U	74-87-3	Chloromethane	0.0017	U
75-35-4	1,1-Dichloroethene	0.0017	U	156-59-2	cis-1,2-Dichloroethene	0.0017	U
87-61-6	1,2,3-Trichlorobenzene	0.0017	U	10061-01-5	cis-1,3-Dichloropropene	0.0017	U
120-82-1	1,2,4-Trichlorobenzene	0.0017	~~U~~ UJ	110-82-7	Cyclohexane	0.0017	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0017	U	124-48-1	Dibromochloromethane	0.0017	U
106-93-4	1,2-Dibromoethane	0.00055	U	75-71-8	Dichlorodifluoromethane	0.0017	U
95-50-1	1,2-Dichlorobenzene	0.0017	U	100-41-4	Ethylbenzene	0.00085	U
107-06-2	1,2-Dichloroethane	0.0017	U	98-82-8	Isopropylbenzene	0.00085	U
78-87-5	1,2-Dichloropropane	0.0017	U	79601-23-1	m&p-Xylenes	0.0012	U
541-73-1	1,3-Dichlorobenzene	0.0017	U	79-20-9	Methyl Acetate	0.0017	~~U~~ UJ
106-46-7	1,4-Dichlorobenzene	0.0017	U	108-87-2	Methylcyclohexane	0.0017	~~U~~ UJ
123-91-1	1,4-Dioxane	0.085	U	**75-09-2**	**Methylene Chloride**	**0.0017**	**0.0024**
78-93-3	**2-Butanone**	**0.0017**	**0.0072**	1634-04-4	Methyl-t-butyl ether	0.00085	U
591-78-6	2-Hexanone	0.0017	~~U~~ UJ	95-47-6	o-Xylene	0.00085	U
108-10-1	4-Methyl-2-Pentanone	0.0017	U	100-42-5	Styrene	0.0017	U
67-64-1	**Acetone**	**0.0085**	**0.035** J	127-18-4	Tetrachloroethene	0.0017	U
71-43-2	Benzene	0.00085	U	108-88-3	Toluene	0.00085	U
74-97-5	Bromochloromethane	0.0017	U	156-60-5	trans-1,2-Dichloroethene	0.0017	U
75-27-4	Bromodichloromethane	0.0017	U	10061-02-6	trans-1,3-Dichloropropene	0.0017	U
75-25-2	Bromoform	0.0017	U	79-01-6	Trichloroethene	0.0017	U
74-83-9	Bromomethane	0.0017	U	75-69-4	Trichlorofluoromethane	0.0017	~~U~~ UJ
75-15-0	**Carbon Disulfide**	**0.0017**	**0.0019**	75-01-4	Vinyl Chloride	0.0017	U
1330-20-7	Xylenes (Total)	0.00085	U				

Worksheet #: 696057

Total Target Concentration 0.046

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MJ 10/29/23

4

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38537-004
Client Id: SB-5 5-10
Data File: 1M174838.D
Analysis Date: 06/14/23 05:46
Date Rec/Extracted: 06/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5.18g
Final Vol: NA
Dilution: 0.965
Solids: 80

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0024	U	56-23-5	Carbon Tetrachloride	0.0024	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0024	U	108-90-7	Chlorobenzene	0.0024	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0024	~~U~~ UJ	75-00-3	Chloroethane	0.0024	U
79-00-5	1,1,2-Trichloroethane	0.0024	U	67-66-3	Chloroform	0.0024	U
75-34-3	1,1-Dichloroethane	0.0024	U	74-87-3	Chloromethane	0.0024	U
75-35-4	1,1-Dichloroethene	0.0024	U	156-59-2	cis-1,2-Dichloroethene	0.0024	U
87-61-6	1,2,3-Trichlorobenzene	0.0024	U	10061-01-5	cis-1,3-Dichloropropene	0.0024	U
120-82-1	1,2,4-Trichlorobenzene	0.0024	~~U~~ UJ	110-82-7	Cyclohexane	0.0024	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0024	U	124-48-1	Dibromochloromethane	0.0024	U
106-93-4	1,2-Dibromoethane	0.00078	U	75-71-8	Dichlorodifluoromethane	0.0024	U
95-50-1	1,2-Dichlorobenzene	0.0024	U	100-41-4	Ethylbenzene	0.0012	U
107-06-2	1,2-Dichloroethane	0.0024	U	98-82-8	Isopropylbenzene	0.0012	U
78-87-5	1,2-Dichloropropane	0.0024	U	79601-23-1	m&p-Xylenes	0.0018	U
541-73-1	1,3-Dichlorobenzene	0.0024	U	79-20-9	Methyl Acetate	0.0024	~~U~~ UJ
106-46-7	1,4-Dichlorobenzene	0.0024	U	108-87-2	Methylcyclohexane	0.0024	~~U~~ UJ
123-91-1	1,4-Dioxane	0.12	U	75-09-2	Methylene Chloride	0.0024	U
78-93-3	2-Butanone	0.0024	U	1634-04-4	Methyl-t-butyl ether	0.0012	U
591-78-6	2-Hexanone	0.0024	~~U~~ UJ	95-47-6	o-Xylene	0.0012	U
108-10-1	4-Methyl-2-Pentanone	0.0024	U	100-42-5	Styrene	0.0024	U
67-64-1	Acetone	0.012	~~U~~ UJ	127-18-4	Tetrachloroethene	0.0024	U
71-43-2	Benzene	0.0012	U	108-88-3	Toluene	0.0012	U
74-97-5	Bromochloromethane	0.0024	U	156-60-5	trans-1,2-Dichloroethene	0.0024	U
75-27-4	Bromodichloromethane	0.0024	U	10061-02-6	trans-1,3-Dichloropropene	0.0024	U
75-25-2	Bromoform	0.0024	U	79-01-6	Trichloroethene	0.0024	U
74-83-9	Bromomethane	0.0024	U	75-69-4	Trichlorofluoromethane	0.0024	~~U~~ UJ
75-15-0	Carbon Disulfide	0.0024	U	75-01-4	Vinyl Chloride	0.0024	U
1330-20-7	Xylenes (Total)	0.0012	U				

Worksheet #: 696057

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MW 10/29/23

Form1

ORGANICS VOLATILE REPORT

5

Sample Number: AD38537-005
Client Id: SB-6 10-11
Data File: 1M174845.D
Analysis Date: 06/14/23 08:13
Date Rec/Extracted: 06/13/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 6.77g
Final Vol: NA
Dilution: 0.739
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0018	U	56-23-5	Carbon Tetrachloride	0.0018	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0018	U	108-90-7	Chlorobenzene	0.0018	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0018	~~U~~ UJ	75-00-3	Chloroethane	0.0018	U
79-00-5	1,1,2-Trichloroethane	0.0018	U	67-66-3	Chloroform	0.0018	U
75-34-3	1,1-Dichloroethane	0.0018	U	74-87-3	Chloromethane	0.0018	U
75-35-4	1,1-Dichloroethene	0.0018	U	156-59-2	cis-1,2-Dichloroethene	0.0018	U
87-61-6	1,2,3-Trichlorobenzene	0.0018	U	10061-01-5	cis-1,3-Dichloropropene	0.0018	U
120-82-1	1,2,4-Trichlorobenzene	0.0018	~~U~~ UJ	110-82-7	Cyclohexane	0.0018	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0018	U	124-48-1	Dibromochloromethane	0.0018	U
106-93-4	1,2-Dibromoethane	0.00058	U	75-71-8	Dichlorodifluoromethane	0.0018	U
95-50-1	1,2-Dichlorobenzene	0.0018	U	100-41-4	Ethylbenzene	0.00089	U
107-06-2	1,2-Dichloroethane	0.0018	U	98-82-8	Isopropylbenzene	0.00089	U
78-87-5	1,2-Dichloropropane	0.0018	U	79601-23-1	m&p-Xylenes	0.0013	U
541-73-1	1,3-Dichlorobenzene	0.0018	U	79-20-9	Methyl Acetate	0.0018	~~U~~ UJ
106-46-7	1,4-Dichlorobenzene	0.0018	U	108-87-2	Methylcyclohexane	0.0018	~~U~~ UJ
123-91-1	1,4-Dioxane	0.089	U	**75-09-2**	**Methylene Chloride**	**0.0018**	**0.0024**
78-93-3	**2-Butanone**	**0.0018**	**0.0049**	1634-04-4	Methyl-t-butyl ether	0.00089	U
591-78-6	2-Hexanone	0.0018	~~U~~ UJ	95-47-6	o-Xylene	0.00089	U
108-10-1	4-Methyl-2-Pentanone	0.0018	U	100-42-5	Styrene	0.0018	U
67-64-1	**Acetone**	**0.0089**	**0.023** J	127-18-4	Tetrachloroethene	0.0018	U
71-43-2	Benzene	0.00089	U	108-88-3	Toluene	0.00089	U
74-97-5	Bromochloromethane	0.0018	U	156-60-5	trans-1,2-Dichloroethene	0.0018	U
75-27-4	Bromodichloromethane	0.0018	U	10061-02-6	trans-1,3-Dichloropropene	0.0018	U
75-25-2	Bromoform	0.0018	U	79-01-6	Trichloroethene	0.0018	U
74-83-9	Bromomethane	0.0018	U	75-69-4	Trichlorofluoromethane	0.0018	~~U~~ UJ
75-15-0	**Carbon Disulfide**	**0.0018**	**0.0084**	75-01-4	Vinyl Chloride	0.0018	U
1330-20-7	Xylenes (Total)	0.00089	U				

Worksheet #: 696057

Total Target Concentration 0.039

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MH 6/29/23

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38537-001
Client Id: SB-1 10-14
Data File: 9M122404.D
Analysis Date: 06/21/23 18:10
Date Rec/Extracted: 06/13/23-06/21/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 91

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	0.037	U	218-01-9	Chrysene	0.037	U
83-32-9	Acenaphthene	0.037	U	53-70-3	Dibenzo[a,h]anthracene	0.037	U
208-96-8	Acenaphthylene	0.037	U	206-44-0	Fluoranthene	0.037	U
120-12-7	Anthracene	0.037	U	86-73-7	Fluorene	0.037	U
56-55-3	Benzo[a]anthracene	0.037	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.037	U
50-32-8	Benzo[a]pyrene	0.037	U	91-20-3	Naphthalene	0.0092	U
205-99-2	Benzo[b]fluoranthene	0.037	U	85-01-8	Phenanthrene	0.037	U
191-24-2	Benzo[g,h,i]perylene	0.037	U	129-00-0	Pyrene	0.037	U
207-08-9	Benzo[k]fluoranthene	0.037	U				

Worksheet #: 696126

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MS 10/29/23

Form1

ORGANICS SEMIVOLATILE REPORT

2

Sample Number: AD38537-002
Client Id: SB-3 0-5
Data File: 7M129414.D
Analysis Date: 06/22/23 12:19
Date Rec/Extracted: 06/13/23-06/21/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	0.037	U	**218-01-9**	**Chrysene**	**0.037**	**0.071**
83-32-9	Acenaphthene	0.037	U	53-70-3	Dibenzo[a,h]anthracene	0.037	U
208-96-8	Acenaphthylene	0.037	U	**206-44-0**	**Fluoranthene**	**0.037**	**0.067**
120-12-7	Anthracene	0.037	U	86-73-7	Fluorene	0.037	U
56-55-3	**Benzo[a]anthracene**	**0.037**	**0.062**	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.037**	**0.050**
50-32-8	**Benzo[a]pyrene**	**0.037**	**0.083**	91-20-3	Naphthalene	0.0094	U
205-99-2	**Benzo[b]fluoranthene**	**0.037**	**0.10**	**85-01-8**	**Phenanthrene**	**0.037**	**0.041**
191-24-2	**Benzo[g,h,i]perylene**	**0.037**	**0.058**	**129-00-0**	**Pyrene**	**0.037**	**0.071**
207-08-9	Benzo[k]fluoranthene	0.037	U				

Worksheet #: 696126

Total Target Concentration 0.6

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MW 6/29/23

Form1

ORGANICS SEMIVOLATILE REPORT

3

Sample Number: AD38537-003
Client Id: SB-4 10-12.5
Data File: 9M122405.D
Analysis Date: 06/21/23 18:33
Date Rec/Extracted: 06/13/23-06/21/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 84

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	0.040	U	**218-01-9**	**Chrysene**	**0.040**	**0.044**
83-32-9	Acenaphthene	0.040	U	53-70-3	Dibenzo[a,h]anthracene	0.040	U
208-96-8	Acenaphthylene	0.040	U	**206-44-0**	**Fluoranthene**	**0.040**	**0.074**
120-12-7	Anthracene	0.040	U	86-73-7	Fluorene	0.040	U
56-55-3	**Benzo[a]anthracene**	**0.040**	**0.046**	193-39-5	Indeno[1,2,3-cd]pyrene	0.040	U
50-32-8	**Benzo[a]pyrene**	**0.040**	**0.045**	**91-20-3**	**Naphthalene**	**0.0099**	**0.013**
205-99-2	**Benzo[b]fluoranthene**	**0.040**	**0.048**	**85-01-8**	**Phenanthrene**	**0.040**	**0.095**
191-24-2	Benzo[g,h,i]perylene	0.040	U	**129-00-0**	**Pyrene**	**0.040**	**0.070**
207-08-9	Benzo[k]fluoranthene	0.040	U				

Worksheet #: 696126

Total Target Concentration 0.44

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MW 10/29/23

Form1

ORGANICS SEMIVOLATILE REPORT

4

Sample Number: AD38537-004
Client Id: SB-5 5-10
Data File: 7M129413.D
Analysis Date: 06/22/23 11:56
Date Rec/Extracted: 06/13/23-06/21/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 80

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	0.042	U	218-01-9	Chrysene	0.042	1.3
83-32-9	Acenaphthene	0.042	U	53-70-3	Dibenzo[a,h]anthracene	0.042	0.24
208-96-8	Acenaphthylene	0.042	0.37	206-44-0	Fluoranthene	0.042	2.4
120-12-7	Anthracene	0.042	0.30	86-73-7	Fluorene	0.042	0.13
56-55-3	Benzo[a]anthracene	0.042	1.1	193-39-5	Indeno[1,2,3-cd]pyrene	0.042	0.75
50-32-8	Benzo[a]pyrene	0.042	1.3	91-20-3	Naphthalene	0.010	0.11
205-99-2	Benzo[b]fluoranthene	0.042	1.5	85-01-8	Phenanthrene	0.042	1.8
191-24-2	Benzo[g,h,i]perylene	0.042	0.95	129-00-0	Pyrene	0.042	2.5
207-08-9	Benzo[k]fluoranthene	0.042	0.42				

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MW 10/29/23

Form1

ORGANICS SEMIVOLATILE REPORT

5

Sample Number: AD38537-005
Client Id: SB-6 10-11
Data File: 9M122406.D
Analysis Date: 06/21/23 18:55
Date Rec/Extracted: 06/13/23-06/21/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	0.040	U	218-01-9	Chrysene	0.040	U
83-32-9	Acenaphthene	0.040	U	53-70-3	Dibenzo[a,h]anthracene	0.040	U
208-96-8	Acenaphthylene	0.040	U	206-44-0	Fluoranthene	0.040	U
120-12-7	Anthracene	0.040	U	86-73-7	Fluorene	0.040	U
56-55-3	Benzo[a]anthracene	0.040	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.040	U
50-32-8	Benzo[a]pyrene	0.040	U	91-20-3	Naphthalene	0.010	U
205-99-2	Benzo[b]fluoranthene	0.040	U	85-01-8	Phenanthrene	0.040	U
191-24-2	Benzo[g,h,i]perylene	0.040	U	129-00-0	Pyrene	0.040	U
207-08-9	Benzo[k]fluoranthene	0.040	U				

Worksheet #: 696126

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MW 10/29/23

Form1

ORGANICS SEMIVOLATILE REPORT

6

Sample Number: AD38537-006
Client Id: SB-7 0.5-1
Data File: 9M122407.D
Analysis Date: 06/21/23 19:18
Date Rec/Extracted: 06/13/23-06/21/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	0.040	U	**218-01-9**	**Chrysene**	**0.040**	**0.11**
83-32-9	Acenaphthene	0.040	U	53-70-3	Dibenzo[a,h]anthracene	0.040	U
208-96-8	Acenaphthylene	0.040	U	**206-44-0**	**Fluoranthene**	**0.040**	**0.069**
120-12-7	Anthracene	0.040	U	86-73-7	Fluorene	0.040	U
56-55-3	**Benzo[a]anthracene**	**0.040**	**0.086**	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.040**	**0.064**
50-32-8	**Benzo[a]pyrene**	**0.040**	**0.11**	91-20-3	Naphthalene	0.010	U
205-99-2	**Benzo[b]fluoranthene**	**0.040**	**0.13**	**85-01-8**	**Phenanthrene**	**0.040**	**0.061**
191-24-2	**Benzo[g,h,i]perylene**	**0.040**	**0.082**	**129-00-0**	**Pyrene**	**0.040**	**0.074**
207-08-9	Benzo[k]fluoranthene	0.040	U				

Worksheet #: 696126

Total Target Concentration 0.79

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

mw 10/29/23

Form1

ORGANICS SEMIVOLATILE REPORT

7

Sample Number: AD38537-007(3X)
Client Id: SB-8 0-2
Data File: 7M129416.D
Analysis Date: 06/22/23 13:06
Date Rec/Extracted: 06/13/23-06/21/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 3
Solids: 91

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	0.11	U	218-01-9	Chrysene	0.11	0.72
83-32-9	Acenaphthene	0.11	U	53-70-3	Dibenzo[a,h]anthracene	0.11	0.14
208-96-8	Acenaphthylene	0.11	U	206-44-0	Fluoranthene	0.11	1.1
120-12-7	Anthracene	0.11	0.18	86-73-7	Fluorene	0.11	U
56-55-3	Benzo[a]anthracene	0.11	0.66	193-39-5	Indeno[1,2,3-cd]pyrene	0.11	0.41
50-32-8	Benzo[a]pyrene	0.11	0.77	91-20-3	Naphthalene	0.027	0.029
205-99-2	Benzo[b]fluoranthene	0.11	0.89	85-01-8	Phenanthrene	0.11	0.69
191-24-2	Benzo[g,h,i]perylene	0.11	0.45	129-00-0	Pyrene	0.11	1.1
207-08-9	Benzo[k]fluoranthene	0.11	0.32				

Worksheet #: 696126

Total Target Concentration 7.5

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MW 6/29/23

Form1

ORGANICS SEMIVOLATILE REPORT

8

Sample Number: AD38537-008
Client Id: SB-9 10-12
Data File: 9M122408.D
Analysis Date: 06/21/23 19:40
Date Rec/Extracted: 06/13/23-06/21/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	0.040	U	218-01-9	Chrysene	0.040	U
83-32-9	Acenaphthene	0.040	U	53-70-3	Dibenzo[a,h]anthracene	0.040	U
208-96-8	Acenaphthylene	0.040	U	206-44-0	Fluoranthene	0.040	U
120-12-7	Anthracene	0.040	U	86-73-7	Fluorene	0.040	U
56-55-3	Benzo[a]anthracene	0.040	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.040	U
50-32-8	Benzo[a]pyrene	0.040	U	91-20-3	Naphthalene	0.010	U
205-99-2	Benzo[b]fluoranthene	0.040	U	85-01-8	Phenanthrene	0.040	U
191-24-2	Benzo[g,h,i]perylene	0.040	U	129-00-0	Pyrene	0.040	U
207-08-9	Benzo[k]fluoranthene	0.040	U				

Worksheet #: 696126

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MW 6/28/23

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-001	% Solid:	91	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-1 10-14	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.88	ND uJ	1	0.5	100	06/15/23	1078601523ANEW		24	MS	MS3_7700SWA
7440-38-2	Arsenic	0.22	4.8	1	0.5	100	06/15/23	1078601523ANEW		24	MS	MS3_7700SWA
7440-41-7	Beryllium	0.22	ND	1	0.5	100	06/15/23	1078601523ANEW		24	MS	MS3_7700SWA
7440-43-9	Cadmium	0.44	ND	1	0.5	100	06/15/23	1078601523ANEW		24	MS	MS3_7700SWA
7440-47-3	Chromium	0.44	7.8	1	0.5	100	06/15/23	1078601523ANEW		24	MS	MS3_7700SWA
7440-50-8	Copper	2.2	28	1	0.5	100	06/15/23	1078601523ANEW		24	MS	MS3_7700SWA
7439-92-1	Lead	0.44	3.4	1	0.5	100	06/15/23	1078601523ANEW		24	MS	MS3_7700SWA
7440-02-0	Nickel	0.66	12	1	0.5	100	06/15/23	1078601523ANEW		24	MS	MS3_7700SWA
7782-49-2	Selenium	2.2	ND	1	0.5	100	06/15/23	1078601523ANEW		24	MS	MS3_7700SWA
7440-22-4	Silver	0.22	ND	1	0.5	100	06/15/23	1078601523ANEW		24	MS	MS3_7700SWA
7440-28-0	Thallium	0.44	ND	1	0.5	100	06/15/23	1078601523ANEW		24	MS	MS3_7700SWA
7440-66-6	Zinc	4.4	36	1	0.5	100	06/15/23	1078601523ANEW		24	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

NW 10/29/23

Form1

Inorganic Analysis Data Sheet

2

Sample ID:	AD38537-002	% Solid:	89	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-3 0-5	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.90	ND	UJ 1	0.5	100	06/15/23	1078601523ANEW		46	MS	MS3_7700SWA
7440-38-2	Arsenic	0.22	4.9	1	0.5	100	06/15/23	1078601523ANEW		46	MS	MS3_7700SWA
7440-41-7	Beryllium	0.22	0.23	1	0.5	100	06/15/23	1078601523ANEW		46	MS	MS3_7700SWA
7440-43-9	Cadmium	0.45	ND	1	0.5	100	06/15/23	1078601523ANEW		46	MS	MS3_7700SWA
7440-47-3	Chromium	0.45	6.2	1	0.5	100	06/15/23	1078601523ANEW		46	MS	MS3_7700SWA
7440-50-8	Copper	2.2	18	1	0.5	100	06/15/23	1078601523ANEW		46	MS	MS3_7700SWA
7439-92-1	Lead	0.45	35	1	0.5	100	06/15/23	1078601523ANEW		46	MS	MS3_7700SWA
7440-02-0	Nickel	0.67	8.8	1	0.5	100	06/15/23	1078601523ANEW		46	MS	MS3_7700SWA
7782-49-2	Selenium	2.2	ND	1	0.5	100	06/15/23	1078601523ANEW		46	MS	MS3_7700SWA
7440-22-4	Silver	0.22	ND	1	0.5	100	06/15/23	1078601523ANEW		46	MS	MS3_7700SWA
7440-28-0	Thallium	0.45	ND	1	0.5	100	06/15/23	1078601523ANEW		46	MS	MS3_7700SWA
7440-66-6	Zinc	4.5	63	1	0.5	100	06/15/23	1078601523ANEW		46	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

MW 10/29/23

Form1

Inorganic Analysis Data Sheet

3

Sample ID:	AD38537-003	% Solid:	84	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-4 10-12.5	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.95	ND UJ	1	0.5	100	06/15/23	1078601523ANEW		47	MS	MS3_7700SWA
7440-38-2	Arsenic	0.24	3.3	1	0.5	100	06/15/23	1078601523ANEW		47	MS	MS3_7700SWA
7440-41-7	Beryllium	0.24	0.28	1	0.5	100	06/15/23	1078601523ANEW		47	MS	MS3_7700SWA
7440-43-9	Cadmium	0.48	ND	1	0.5	100	06/15/23	1078601523ANEW		47	MS	MS3_7700SWA
7440-47-3	Chromium	0.48	7.3	1	0.5	100	06/15/23	1078601523ANEW		47	MS	MS3_7700SWA
7440-50-8	Copper	2.4	17	1	0.5	100	06/15/23	1078601523ANEW		47	MS	MS3_7700SWA
7439-92-1	Lead	0.48	6.3	1	0.5	100	06/15/23	1078601523ANEW		47	MS	MS3_7700SWA
7440-02-0	Nickel	0.71	9.4	1	0.5	100	06/15/23	1078601523ANEW		47	MS	MS3_7700SWA
7782-49-2	Selenium	2.4	ND	1	0.5	100	06/15/23	1078601523ANEW		47	MS	MS3_7700SWA
7440-22-4	Silver	0.24	ND	1	0.5	100	06/15/23	1078601523ANEW		47	MS	MS3_7700SWA
7440-28-0	Thallium	0.48	ND	1	0.5	100	06/15/23	1078601523ANEW		47	MS	MS3_7700SWA
7440-66-6	Zinc	4.8	29	1	0.5	100	06/15/23	1078601523ANEW		47	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

MW 10/29/23

Form1

Inorganic Analysis Data Sheet

4

Sample ID:	AD38537-004	% Solid:	80	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-5 5-10	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	1.0	ND UJ	1	0.5	100	06/15/23	1078601523ANEW		48	MS	MS3_7700SWA
7440-38-2	Arsenic	0.25	11	1	0.5	100	06/15/23	1078601523ANEW		48	MS	MS3_7700SWA
7440-41-7	Beryllium	0.25	0.38	1	0.5	100	06/15/23	1078601523ANEW		48	MS	MS3_7700SWA
7440-43-9	Cadmium	0.50	ND	1	0.5	100	06/15/23	1078601523ANEW		48	MS	MS3_7700SWA
7440-47-3	Chromium	0.50	5.8	1	0.5	100	06/15/23	1078601523ANEW		48	MS	MS3_7700SWA
7440-50-8	Copper	2.5	36	1	0.5	100	06/15/23	1078601523ANEW		48	MS	MS3_7700SWA
7439-92-1	Lead	0.50	130	1	0.5	100	06/15/23	1078601523ANEW		48	MS	MS3_7700SWA
7440-02-0	Nickel	0.75	9.7	1	0.5	100	06/15/23	1078601523ANEW		48	MS	MS3_7700SWA
7782-49-2	Selenium	2.5	ND	1	0.5	100	06/15/23	1078601523ANEW		48	MS	MS3_7700SWA
7440-22-4	Silver	0.25	ND	1	0.5	100	06/15/23	1078601523ANEW		48	MS	MS3_7700SWA
7440-28-0	Thallium	0.50	ND	1	0.5	100	06/15/23	1078601523ANEW		48	MS	MS3_7700SWA
7440-66-6	Zinc	5.0	85	1	0.5	100	06/15/23	1078601523ANEW		48	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

MW 10/29/23

Form1

Inorganic Analysis Data Sheet

5

Sample ID:	AD38537-005	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-6 10-11	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.96	ND	u1 1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA
7440-38-2	Arsenic	0.24	4.6	1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA
7440-41-7	Beryllium	0.24	0.32	1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA
7440-43-9	Cadmium	0.48	ND	1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA
7440-47-3	Chromium	0.48	8.3	1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA
7440-50-8	Copper	2.4	20	1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA
7439-92-1	Lead	0.48	5.5	1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA
7440-02-0	Nickel	0.72	12	1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA
7782-49-2	Selenium	2.4	2.6	1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA
7440-22-4	Silver	0.24	ND	1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA
7440-28-0	Thallium	0.48	ND	1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA
7440-66-6	Zinc	4.8	34	1	0.5	100	06/15/23	1078601	523ANEW	49	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

mw 10/29/23

Form1

Inorganic Analysis Data Sheet

6

Sample ID:	AD38537-006	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-7 0.5-1	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.96	ND	uJ 1	0.5	100	06/15/23	1078601523ANEW		50	MS	MS3_7700SWA
7440-38-2	Arsenic	0.24	9.9	1	0.5	100	06/15/23	1078601523ANEW		50	MS	MS3_7700SWA
7440-41-7	Beryllium	0.24	0.74	1	0.5	100	06/15/23	1078601523ANEW		50	MS	MS3_7700SWA
7440-43-9	Cadmium	0.48	ND	1	0.5	100	06/15/23	1078601523ANEW		50	MS	MS3_7700SWA
7440-47-3	Chromium	0.48	9.2	1	0.5	100	06/15/23	1078601523ANEW		50	MS	MS3_7700SWA
7440-50-8	Copper	2.4	53	1	0.5	100	06/15/23	1078601523ANEW		50	MS	MS3_7700SWA
7439-92-1	Lead	0.48	42	1	0.5	100	06/15/23	1078601523ANEW		50	MS	MS3_7700SWA
7440-02-0	Nickel	0.72	14	1	0.5	100	06/15/23	1078601523ANEW		50	MS	MS3_7700SWA
7782-49-2	Selenium	2.4	2.6	1	0.5	100	06/15/23	1078601523ANEW		50	MS	MS3_7700SWA
7440-22-4	Silver	0.24	ND	1	0.5	100	06/15/23	1078601523ANEW		50	MS	MS3_7700SWA
7440-28-0	Thallium	0.48	ND	1	0.5	100	06/15/23	1078601523ANEW		50	MS	MS3_7700SWA
7440-66-6	Zinc	4.8	59	1	0.5	100	06/15/23	1078601523ANEW		50	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

MW 10/29/23

7

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-007	% Solid:	91	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-8 0-2	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.88	ND uj	1	0.5	100	06/15/23	1078601523ANEW		51		MSMS3_7700SWA
7440-38-2	Arsenic	0.22	6.5	1	0.5	100	06/15/23	1078601523ANEW		51		MSMS3_7700SWA
7440-41-7	Beryllium	0.22	0.30	1	0.5	100	06/15/23	1078601523ANEW		51		MSMS3_7700SWA
7440-43-9	Cadmium	0.44	ND	1	0.5	100	06/15/23	1078601523ANEW		51		MSMS3_7700SWA
7440-47-3	Chromium	0.44	8.8	1	0.5	100	06/15/23	1078601523ANEW		51		MSMS3_7700SWA
7440-50-8	Copper	2.2	35	1	0.5	100	06/15/23	1078601523ANEW		51		MSMS3_7700SWA
7439-92-1	Lead	0.44	90	1	0.5	100	06/15/23	1078601523ANEW		51		MSMS3_7700SWA
7440-02-0	Nickel	0.66	12	1	0.5	100	06/15/23	1078601523ANEW		51		MSMS3_7700SWA
7782-49-2	Selenium	2.2	ND	1	0.5	100	06/15/23	1078601523ANEW		51		MSMS3_7700SWA
7440-22-4	Silver	0.22	ND	1	0.5	100	06/15/23	1078601523ANEW		51		MSMS3_7700SWA
7440-28-0	Thallium	0.44	ND	1	0.5	100	06/15/23	1078601523ANEW		51		MSMS3_7700SWA
7440-66-6	Zinc	4.4	74	1	0.5	100	06/15/23	1078601523ANEW		51		MSMS3_7700SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

MW 10/29/23

Form1

Inorganic Analysis Data Sheet

8

Sample ID:	AD38537-008	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-9 10-12	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.96	ND	UJ 1	0.5	100	06/15/23	1078601523ANEW		52	MSMS3_7700SWA	
7440-38-2	Arsenic	0.24	3.7	1	0.5	100	06/15/23	1078601523ANEW		52	MSMS3_7700SWA	
7440-41-7	Beryllium	0.24	0.24	1	0.5	100	06/15/23	1078601523ANEW		52	MSMS3_7700SWA	
7440-43-9	Cadmium	0.48	ND	1	0.5	100	06/15/23	1078601523ANEW		52	MSMS3_7700SWA	
7440-47-3	Chromium	0.48	7.0	1	0.5	100	06/15/23	1078601523ANEW		52	MSMS3_7700SWA	
7440-50-8	Copper	2.4	18	1	0.5	100	06/15/23	1078601523ANEW		52	MSMS3_7700SWA	
7439-92-1	Lead	0.48	11	1	0.5	100	06/15/23	1078601523ANEW		52	MSMS3_7700SWA	
7440-02-0	Nickel	0.72	12	1	0.5	100	06/15/23	1078601523ANEW		52	MSMS3_7700SWA	
7782-49-2	Selenium	2.4	ND	1	0.5	100	06/15/23	1078601523ANEW		52	MSMS3_7700SWA	
7440-22-4	Silver	0.24	ND	1	0.5	100	06/15/23	1078601523ANEW		52	MSMS3_7700SWA	
7440-28-0	Thallium	0.48	ND	1	0.5	100	06/15/23	1078601523ANEW		52	MSMS3_7700SWA	
7440-66-6	Zinc	4.8	29	1	0.5	100	06/15/23	1078601523ANEW		52	MSMS3_7700SWA	

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

mw 01/29/23

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-001	% Solid:	91	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-1 10-14	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.092	ND	1	0.15	25	06/15/23	107860	H29848S	13	CV	HGCV4A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1

Inorganic Analysis Data Sheet

2

Sample ID:	AD38537-002	% Solid:	89	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-3 0-5	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.094	0.19	1	0.15	25	06/15/23	107860	H29848S	23	CV	HGCV4A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

10/29/23

Form1

Inorganic Analysis Data Sheet

3

Sample ID:	AD38537-003	% Solid:	84	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-4 10-12.5	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.099	ND	1	0.15	25	06/15/23	107860	H29848S	24	CV	HGCV4A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

mw 10/29/23

Form1

Inorganic Analysis Data Sheet

4

Sample ID:	AD38537-004	% Solid:	80	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-5 5-10	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.10	0.13	1	0.15	25	06/15/23	107860	H29848S	25	CV	HGCV4A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

MW 10/29/23

Form1

Inorganic Analysis Data Sheet

5

Sample ID:	AD38537-005	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-6 10-11	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.10	ND	1	0.15	25	06/15/23	107860	H29848S	26	CV	HGCV4A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

MJ 10/29/23

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Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-006	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-7 0.5-1	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.10	0.12	1	0.15	25	06/15/23	107860	H29848S	27	CV	HGCV4A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

MW 10/29/23

Form1

Inorganic Analysis Data Sheet

7

Sample ID:	AD38537-007	% Solid:	91	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-8 0-2	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.092	0.29	1	0.15	25	06/15/23	107860	H29848S	28	CV	HGCV4A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

MW 06/29/23

8

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38537-008	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	SB-9 10-12	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/13/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.10	ND	1	0.15	25	06/15/23	107860	H29848S	29	CV	HGCV4A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

MW 10/29/23

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
510-514 WEST LIBERTY STREET, NEW YORK

Client: HRP Associates, In., Clifton Park, New York
SDG: AD38586/3061429
Laboratory: Hampton-Clarke Analytical, Fairfield, New Jersey
Site: 510-514 West Liberty Street, Rome, New York
Date: October 29, 2023

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	HB-1	AD38586-001	Soil
1MS	HB-1MS	AD38586-007MS	Soil
1MSD	HB-1MSD	AD38586-008MSD	Soil
2	DUP	AD38586-002	Soil
3†	HB-2	AD38586-003	Soil
4†	HB-3	AD38586-004	Soil
5*	OUTBUILDINGSUMP	AD38586-005	Water
6*	TW-1	AD38586-006	Water

* - VOC & SVOC only † - SVOC & Metals/Mercury only

A Data Usability Summary Review was performed on the analytical data for four soil samples and two water samples collected on June 13, 2023 by HRP at the 510-514 W. Liberty Street site in Rome, New York. The samples were analyzed under Environmental Protection Agency (USEPA) "Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions".

Specific method references are as follows:

Analysis	*Method References*
VOC	USEPA SW-846 Method 8260D
SVOC	USEPA SW-846 Method 8270E
Pesticides	USEPA SW-846 Method 8081B
PCBs	USEPA SW-846 Method 8082A
Herbicides	USEPA SW-846 Method 8151A
Metals/Mercury	USEPA SW-846 Method 6020B/7471B

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number HW-33A, Revision 1, September 2016: Low/Medium Volatile Data Validation;
- SOP Number HW-35A, Revision 1, September 2016: Semivolatile Data Validation;
- SOP Number HW-36A, Revision 1, October 2016: Pesticide Data Validation;

- SOP Number HW-37A, Revision 0, June 2015: Polychlorinated Biphenyl (PCB) Aroclor Data Validation;
- SOP Number HW-17, Revision 3.1, December 2010: Validating Chlorinated Herbicides;
- SOP Number HW-3b, Revision 1, September 2016: ICP-MS Data Validation;
- SOP Number HW-3c, Revision 1, September 2016: Mercury and Cyanide Data Validation;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

Organics

- Data Completeness
- Holding times and sample preservation
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Method blank and field blank contamination
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning
- Initial and continuing calibration summaries
- Compound Quantitation
- Internal standard area and retention time summary forms
- Tentatively Identified Compounds (TICs)
- Field Duplicate sample precision

Inorganics

- Data Completeness
- Holding times and sample preservation
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Duplicate Sample Analysis recoveries
- Laboratory Control Sample (LCS) recoveries
- Method blank and field blank contamination
- Initial and continuing calibration verifications
- Compound Quantitation
- ICP Serial Dilution
- Field Duplicate sample precision

Data Usability Assessment

There were rejections of data. This data cannot be used in the decision-making process for this project.

- Ten VOC compounds were rejected in one sample due to severely low MS/MSD recoveries.
- Three SVOC compounds were rejected in one sample due to severely low MS/MSD recoveries.

The remaining data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Volatile Organic Compounds (VOCs)

Holding Times

- All samples were analyzed within 14 days for preserved water and soil samples.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). For a severely low %R (<10%), non-detect results are rejected (R) and are unusable for project objectives.

MS/MSD Sample ID	Compound	MS %R/MSD %R/ RPD	Qualifier
1	Methylene Chloride	26%/27%/OK	UJ
	trans-1,2-Dichloroethene	18%/19%/OK	
	cis-1,2-Dichloroethene	20%/20%/OK	
	Bromochloromethane	13%/13%/OK	
	Chloroform	31%/32%/OK	
	1,2-Dichloroethane	11%/11%/OK	
	Bromodichloromethane	17%/18%/OK	
	cis-1,3-Dichloropropene	4.4%/4.9%/OK	R
	trans-1,3-Dichloropropene	0%/0%/OK	
	1,1,2-Trichloroethane	16%/20%/OK	UJ
	1,2-Dibromoethane	3.2%/3.9%/OK	R

MS/MSD Sample ID	Compound	MS %R/MSD %R/ RPD	Qualifier
1	Toluene	18%/20%/OK	UJ
	Chlorobenzene	5.7%/5.9%/OK	R
	Bromoform	11%/17%/OK	UJ
	Ethylbenzene	16%/22%/OK	
	Styrene	4.5%/6%/OK	R
	m,p-Xylenes	15%/OK/OK	UJ
	o-Xylenes	19%/OK/OK	
	1,3-Dichlorobenzene	0%/0%/OK	R
	1,4-Dichlorobenzene	0%/0%/OK	
	1,2-Dichlorobenzene	0%/4.8%/OK	
	1,2-Dibromo-3-Chloropropane	8.8%/13%/OK	UJ
	1,2,4-Trichlorobenzene	0%/0%/OK	R
	1,2,3-Trichlorobenzene	0%/0%/OK	

Laboratory Control Samples

- The LCS samples exhibited acceptable Percent recoveries (%R).

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not collected.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients and mean RRF values.

Continuing Calibration

- The following table presents compounds that exceeded percent difference (%D) and/or RRF values <0.05 (0.01 for poor performers) in the continuing calibration (CCAL). A low RRF indicates poor instrument sensitivity for these compounds. Positive results for these compounds in the affected samples are considered estimated and qualified (J). Non-detect results for these compounds in the affected samples are rejected (R) and are unusable for

project objectives. A high %D may indicate a potential high or low bias. All results for these compounds in affected samples are considered estimated and qualified (J/UJ).

CCAL Date	Compound	%D/RRF	Qualifier	Affected Samples
06/15/23 (1921)	Dichlorodifluoromethane	37.4%	UJ	5, 6
	Chloromethane	50.9%		
	Bromomethane	51.6%		
	Vinyl Chloride	44.3%		
	Chloroethane	45.1%		
	Trichlorofluoromethane	30.6%		
	Methyl Acetate	33.7%		
	2-Butanone	26.1%		
	1,2-Dibromoethane	24.1%		
	4-Methyl-2-pentanone	28.0%		
	2-Hexanone	22.1%		
	Bromoform	25.3%		
06/16/23 (0928)	Chloromethane	43.9%	UJ	1, 2
	Bromomethane	28.5%		
	Bromoform	28.1%	UJ	2
	1,3-Chlorobenzene	21.4%		
	1,4-Chlorobenzene	22.0%		
	1,2-Chlorobenzene	24.8%		
	1,2-Dibromo-3-Chloropropane	38.2%		
	1,2,4-Trichlorobenzene	29.5%		
	1,2,3-Trichlorobenzene	32.4%		

Compound Quantitation

- All criteria were met.

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

Compound	HB-1 mg/kg	DUP mg/kg	RPD	Qualifier
None	ND	ND	-	-

Semivolatile Organic Compounds (SVOC)

Holding Times

- All samples were extracted within 7 days for water samples, 14 days for soil samples, and analyzed within 40 days.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). For a severely low %R (<10%), non-detect results are rejected (R) and are unusable for project objectives.

MS/MSD Sample ID	Compound	MS %R/MSD %R/ RPD	Qualifier
1	Hexachlorocyclopentadiene	1.1%/0%/OK	R
	3,3'-Dichlorobenzidine	4.5%/8.6%/OK	
	2,4-Dinitrophenol	OK/0%/OK	

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not collected.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients and mean RRF values.

Continuing Calibration

- The following table presents compounds that exceeded percent difference (%D) criteria and/or RRF values <0.05 in the continuing calibration (CCAL). A low RRF indicates poor instrument sensitivity for these compounds. Positive results for these compounds in the affected samples are considered estimated and qualified (J). Non-detect results for these compounds in the affected samples are rejected (R) and are unusable for project objectives. A high %D may indicate a potential high or low bias. All results for these compounds in affected samples are considered estimated and qualified (J/UJ).

CCAL Date	Compound	%D/RRF	Qualifier	Affected Samples
06/23/23 (1749)	4-Chloroaniline	39.5%	UJ	1, 2
	Hexachlorocyclopentadiene	60.4%	UJ	2

Compound Quantitation

- All criteria were met.

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

Compound	HB-1 mg/kg	DUP mg/kg	RPD	Qualifier
2-Meethylnaphthalene	0.050	0.066	28%	None
Acenaphthylene	0.047	0.064	31%	
Anthracene	0.069	0.082	17%	
Benzo(a)anthracene	0.26	0.31	18%	
Benzo(a)pyrene	0.26	0.33	24%	
Benzo(b)fluoranthene	0.44	0.60	31%	
Benzo(g,h,i)perylene	0.18	0.19	5%	

Compound	HB-1 mg/kg	DUP mg/kg	RPD	Qualifier
Benzo(k)fluoranthene	0.13	0.15	14%	None
Carbazole	0.041	0.047	14%	
Chrysene	0.56	0.65	15%	
Dibenzo(a,h)anthracene	0.061	0.068	11%	
Dibenzofuran	0.046	0.054	16%	
Fluoranthene	0.55	0.67	20%	
Indeno(1,2,3-cd)pyrene	0.15	0.17	13%	
Naphthalene	0.068	0.073	7%	
Phenanthrene	0.49	0.55	12%	
Pyrene	0.47	0.58	21%	

Pesticides/Polychlorinated Biphenyls (PCBs)

Holding Times

- All samples were extracted within 14 days for soil samples and analyzed within 40 days.

Surrogate Spike Recoveries

- The following table presents surrogate percent recoveries (%R) outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

Sample ID	Surrogate	%R	Qualifier
2	TCX/DCB	OK/190%	None - All Associated ND

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). For a severely low %R (<10%), non-detect results are rejected (R) and are unusable for project objectives.

MS/MSD Sample ID	Compound	MS %R/MSD %R/ RPD	Qualifier
1	Endrin Aldehyde	249%/287%/OK	None - Sample ND

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not collected.

Initial Calibration

- All %RSD and/or correlation coefficient criteria were met.

Continuing Calibration

- All %D criteria were met.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

Compound	HB-1 mg/kg	DUP mg/kg	RPD	Qualifier
Dieldrin	0.0029	0.0014U	NC	None
p,p'-DDD	0.0045	0.0034U	NC	
p,p'-DDT	0.026	0.0034U	NC	

GC Column Difference Results

- EDS Sample 1 exhibited two pesticide compounds with a high %D between columns. These results were qualified as estimated (J).

Herbicides

Holding Times

- All samples were extracted within 14 days for soil samples and analyzed within 40 days for all samples.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples exhibited acceptable percent recoveries (%R) and RPD values.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not collected.

Initial Calibration

- All %RSD and/or correlation coefficient criteria were met.

Continuing Calibration

- All %D criteria were met.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

Compound	HB-1 mg/kg	DUP mg/kg	RPD	Qualifier
None	ND	ND	-	-

GC Column Difference Results

- All criteria were met.

Metals, Mercury

Holding Times

- All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

MS/MSD Sample ID	Compound	MS %R/MSD %R/RPD	Qualifier	Affected samples
1	Aluminum	239%/OK/OK	J	All Samples
	Antimony	38%/50%/OK		
	Arsenic	55%/66%/OK		
	Barium	49%/43%/OK		
	Cadmium	OK/73%/OK	UJ	
	Calcium	129%/OK/OK	J	
	Copper	OK/410%/OK		
	Manganese	OK/56%/OK		
	Potassium	OK/74%/OK		
	Selenium	71%/72%/OK		
	Silver	OK/74%/OK	J/UJ	
	Thallium	61%/56%/OK		
	Zinc	OK/25%/OK	J	

Duplicate Sample Analysis

- Duplicate samples were not analyzed.

Laboratory Control Samples

- The following table presents LCS percent recoveries (%R) outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

LCS ID	Compound	%R	Qualifier	Affected Samples
LCS 06/19/23	Silver	17%	None	See MS/MSD

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not collected.

Initial Calibration Verification

- All initial calibration criteria were met.

Continuing Calibration Verification

- All continuing calibration criteria were met.

Compound Quantitation

- Several samples were analyzed at various dilutions due to high concentrations of target compounds. The reporting limits were adjusted accordingly. No action was required.

ICP Serial Dilution

- An ICP serial dilution was not performed.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was unacceptable for two compounds. These results were qualified as estimated (J).

Compound	HB-1 mg/kg	DUP mg/kg	RPD	Qualifier
Aluminum	1200	2200	59%	None - See MS/MSD
Antimony	9.3	8.4	10%	None
Arsenic	69	48	36%	
Barium	150	110	31%	
Beryllium	0.35	0.45	25%	
Calcium	3500	12000	110%	None - See MS/MSD
Chromium	8.8	8.6	2%	None
Cobalt	3.9	7.2	59%	J
Copper	73	110	40%	None
Iron	18000	16000	12%	
Lead	350	360	3%	

Compound	HB-1 mg/kg	DUP mg/kg	RPD	Qualifier
Magnesium	380	1100	97%	J
Manganese	71	130	59%	None - See MS/MSD
Nickel	8.2	9.9	19%	None
Potassium	820	730	12%	
Selenium	14	10	33%	
Silver	0.27	0.27U	NC	
Sodium	280	220	24%	
Thallium	1.6	1.2	29%	
Vanadium	11	11	0%	
Zinc	88	120	31%	

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 10/31/23

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38586-001
Client Id: HB-1 +QA\QC
Data File: 6M169566.D
Analysis Date: 06/16/23 11:41
Date Rec/Extracted: 06/14/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 4.56g
Final Vol: NA
Dilution: 1.10
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0026	U	56-23-5	Carbon Tetrachloride	0.0026	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0026	U	108-90-7	Chlorobenzene	0.0026	UJ R
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0026	U	75-00-3	Chloroethane	0.0026	U
79-00-5	1,1,2-Trichloroethane	0.0026	UJ	67-66-3	Chloroform	0.0026	UJ
75-34-3	1,1-Dichloroethane	0.0026	U	74-87-3	Chloromethane	0.0026	UJ
75-35-4	1,1-Dichloroethene	0.0026	U	156-59-2	cis-1,2-Dichloroethene	0.0026	UJ
87-61-6	1,2,3-Trichlorobenzene	0.0026	UJ R	10061-01-5	cis-1,3-Dichloropropene	0.0026	UJ
120-82-1	1,2,4-Trichlorobenzene	0.0026	UJ R	110-82-7	Cyclohexane	0.0026	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0026	UJ	124-48-1	Dibromochloromethane	0.0026	U
106-93-4	1,2-Dibromoethane	0.00086	UJ R	75-71-8	Dichlorodifluoromethane	0.0026	U
95-50-1	1,2-Dichlorobenzene	0.0026	UJ R	100-41-4	Ethylbenzene	0.0013	UJ UJ
107-06-2	1,2-Dichloroethane	0.0026	UJ UJ	98-82-8	Isopropylbenzene	0.0013	U
78-87-5	1,2-Dichloropropane	0.0026	U	79601-23-1	m&p-Xylenes	0.0019	UJ UJ
541-73-1	1,3-Dichlorobenzene	0.0026	UJ R	79-20-9	Methyl Acetate	0.0026	U
106-46-7	1,4-Dichlorobenzene	0.0026	UJ R	108-87-2	Methylcyclohexane	0.0026	U
123-91-1	1,4-Dioxane	0.13	U	75-09-2	Methylene Chloride	0.0026	UJ UJ
78-93-3	2-Butanone	0.0026	U	1634-04-4	Methyl-t-butyl ether	0.0013	U
591-78-6	2-Hexanone	0.0026	U	95-47-6	o-Xylene	0.0013	UJ UJ
108-10-1	4-Methyl-2-Pentanone	0.0026	U	100-42-5	Styrene	0.0026	UJ R
67-64-1	Acetone	0.013	U	127-18-4	Tetrachloroethene	0.0026	U
71-43-2	Benzene	0.0013	U	108-88-3	Toluene	0.0013	UJ UJ
74-97-5	Bromochloromethane	0.0026	UJ UJ	156-60-5	trans-1,2-Dichloroethene	0.0026	UJ UJ
75-27-4	Bromodichloromethane	0.0026	UJ UJ	10061-02-6	trans-1,3-Dichloropropene	0.0026	UJ R
75-25-2	Bromoform	0.0026	UJ UJ	79-01-6	Trichloroethene	0.0026	U
74-83-9	Bromomethane	0.0026	UJ UJ	75-69-4	Trichlorofluoromethane	0.0026	U
75-15-0	Carbon Disulfide	0.0026	U	75-01-4	Vinyl Chloride	0.0026	U
1330-20-7	Xylenes (Total)	0.0013	U				

Worksheet #: 696297

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

NW 10/29/23

Form1

ORGANICS VOLATILE REPORT

2

Sample Number: AD38586-002
Client Id: DUP
Data File: 6M169567.D
Analysis Date: 06/16/23 12:03
Date Rec/Extracted: 06/14/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 4.14g
Final Vol: NA
Dilution: 1.21
Solids: 73

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0033	U	56-23-5	Carbon Tetrachloride	0.0033	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0033	U	108-90-7	Chlorobenzene	0.0033	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0033	U	75-00-3	Chloroethane	0.0033	U
79-00-5	1,1,2-Trichloroethane	0.0033	U	67-66-3	Chloroform	0.0033	U
75-34-3	1,1-Dichloroethane	0.0033	U	74-87-3	Chloromethane	0.0033	UJ
75-35-4	1,1-Dichloroethene	0.0033	U	156-59-2	cis-1,2-Dichloroethene	0.0033	U
87-61-6	1,2,3-Trichlorobenzene	0.0033	UJ	10061-01-5	cis-1,3-Dichloropropene	0.0033	U
120-82-1	1,2,4-Trichlorobenzene	0.0033	UJ	110-82-7	Cyclohexane	0.0033	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0033	UJ	124-48-1	Dibromochloromethane	0.0033	U
106-93-4	1,2-Dibromoethane	0.0011	U	75-71-8	Dichlorodifluoromethane	0.0033	U
95-50-1	1,2-Dichlorobenzene	0.0033	UJ	100-41-4	Ethylbenzene	0.0017	U
107-06-2	1,2-Dichloroethane	0.0033	U	98-82-8	Isopropylbenzene	0.0017	U
78-87-5	1,2-Dichloropropane	0.0033	U	79601-23-1	m&p-Xylenes	0.0024	U
541-73-1	1,3-Dichlorobenzene	0.0033	UJ	79-20-9	Methyl Acetate	0.0033	U
106-46-7	1,4-Dichlorobenzene	0.0033	UJ	108-87-2	Methylcyclohexane	0.0033	U
123-91-1	1,4-Dioxane	0.17	U	75-09-2	Methylene Chloride	0.0033	U
78-93-3	2-Butanone	0.0033	U	1634-04-4	Methyl-t-butyl ether	0.0017	U
591-78-6	2-Hexanone	0.0033	U	95-47-6	o-Xylene	0.0017	U
108-10-1	4-Methyl-2-Pentanone	0.0033	U	100-42-5	Styrene	0.0033	U
67-64-1	Acetone	0.017	U	127-18-4	Tetrachloroethene	0.0033	U
71-43-2	Benzene	0.0017	U	108-88-3	Toluene	0.0017	U
74-97-5	Bromochloromethane	0.0033	U	156-60-5	trans-1,2-Dichloroethene	0.0033	U
75-27-4	Bromodichloromethane	0.0033	U	10061-02-6	trans-1,3-Dichloropropene	0.0033	U
75-25-2	Bromoform	0.0033	UJ	79-01-6	Trichloroethene	0.0033	U
74-83-9	Bromomethane	0.0033	UJ	75-69-4	Trichlorofluoromethane	0.0033	U
75-15-0	Carbon Disulfide	0.0033	U	75-01-4	Vinyl Chloride	0.0033	U
1330-20-7	Xylenes (Total)	0.0017	U				

Worksheet #: 696297

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MW 10/29/23

Form1

ORGANICS VOLATILE REPORT

5

Sample Number: AD38586-005
Client Id: OutbuildingSump
Data File: 2M186049.D
Analysis Date: 06/15/23 23:15
Date Rec/Extracted: 06/14/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	~~U~~ UJ
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	0.74	U
75-34-3	1,1-Dichloroethane	0.81	U	74-87-3	Chloromethane	1.0	~~U~~ UJ
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	0.80	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	0.68	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	~~U~~ UJ	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	~~U~~ UJ
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.66	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	~~U~~ UJ
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	~~U~~ UJ	1634-04-4	Methyl-t-butyl ether	0.87	U
591-78-6	2-Hexanone	1.0	~~U~~ UJ	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	~~U~~ UJ	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	0.74	U	156-60-5	trans-1,2-Dichloroethene	0.68	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	~~U~~ UJ	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	~~U~~ UJ	75-69-4	Trichlorofluoromethane	1.0	~~U~~ UJ
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	~~U~~ UJ
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 696297

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MW 10/29/23

Form1

ORGANICS VOLATILE REPORT

6

Sample Number: AD38586-006
Client Id: TW-1
Data File: 2M186050.D
Analysis Date: 06/15/23 23:35
Date Rec/Extracted: 06/14/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U UJ
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	0.74	U
75-34-3	1,1-Dichloroethane	0.81	U	74-87-3	Chloromethane	1.0	U UJ
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	0.80	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	0.68	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U UJ	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U UJ
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.66	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U UJ
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U UJ	1634-04-4	Methyl-t-butyl ether	0.87	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	**Acetone**	**5.0**	**6.7**	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	0.74	U	156-60-5	trans-1,2-Dichloroethene	0.68	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U UJ	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U UJ	75-69-4	Trichlorofluoromethane	1.0	U UJ
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U UJ
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 696297

Total Target Concentration 6.7

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MW 6/29/23

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38586-001
Client Id: HB-1 +QA\QC
Data File: 7M129515.D
Analysis Date: 06/26/23 09:34
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.040	U	**50-32-8**	**Benzo[a]pyrene**	**0.040**	**0.26**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.040	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.040**	**0.44**
123-91-1	1,4-Dioxane	0.011	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.040**	**0.18**
58-90-2	2,3,4,6-Tetrachlorophenol	0.040	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.040**	**0.13**
95-95-4	2,4,5-Trichlorophenol	0.040	U	111-91-1	bis(2-Chloroethoxy)methan	0.040	U
88-06-2	2,4,6-Trichlorophenol	0.040	U	111-44-4	bis(2-Chloroethyl)ether	0.013	U
120-83-2	2,4-Dichlorophenol	0.013	U	108-60-1	bis(2-chloroisopropyl)ether	0.040	U
105-67-9	2,4-Dimethylphenol	0.022	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.37	U
51-28-5	2,4-Dinitrophenol	0.20	~~U~~ R	85-68-7	Butylbenzylphthalate	0.040	U
121-14-2	2,4-Dinitrotoluene	0.040	U	105-60-2	Caprolactam	0.040	U
606-20-2	2,6-Dinitrotoluene	0.040	U	**86-74-8**	**Carbazole**	**0.040**	**0.041**
91-58-7	2-Chloronaphthalene	0.040	U	**218-01-9**	**Chrysene**	**0.040**	**0.56**
95-57-8	2-Chlorophenol	0.040	U	**53-70-3**	**Dibenzo[a,h]anthracene**	**0.040**	**0.061**
91-57-6	**2-Methylnaphthalene**	**0.040**	**0.050**	**132-64-9**	**Dibenzofuran**	**0.010**	**0.046**
95-48-7	2-Methylphenol	0.012	U	84-66-2	Diethylphthalate	0.71	U
88-74-4	2-Nitroaniline	0.040	U	131-11-3	Dimethylphthalate	0.040	U
88-75-5	2-Nitrophenol	0.040	U	84-74-2	Di-n-butylphthalate	0.96	U
106-44-5	3&4-Methylphenol	0.013	U	117-84-0	Di-n-octylphthalate	0.040	U
91-94-1	3,3'-Dichlorobenzidine	0.040	~~U~~ R	**206-44-0**	**Fluoranthene**	**0.040**	**0.55**
99-09-2	3-Nitroaniline	0.040	U	86-73-7	Fluorene	0.040	U
534-52-1	4,6-Dinitro-2-methylphenol	0.20	U	118-74-1	Hexachlorobenzene	0.040	U
101-55-3	4-Bromophenyl-phenylether	0.040	U	87-68-3	Hexachlorobutadiene	0.040	U
59-50-7	4-Chloro-3-methylphenol	0.040	U	77-47-4	Hexachlorocyclopentadiene	0.13	~~U~~ R
106-47-8	4-Chloroaniline	0.014	~~U~~ UJ	67-72-1	Hexachloroethane	0.040	U
7005-72-3	4-Chlorophenyl-phenylether	0.040	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.040**	**0.15**
100-01-6	4-Nitroaniline	0.040	U	78-59-1	Isophorone	0.040	U
100-02-7	4-Nitrophenol	0.040	U	**91-20-3**	**Naphthalene**	**0.010**	**0.068**
83-32-9	Acenaphthene	0.040	U	98-95-3	Nitrobenzene	0.040	U
208-96-8	**Acenaphthylene**	**0.040**	**0.047**	621-64-7	N-Nitroso-di-n-propylamine	0.010	U
98-86-2	Acetophenone	0.040	U	86-30-6	n-Nitrosodiphenylamine	0.040	U
120-12-7	**Anthracene**	**0.040**	**0.069**	87-86-5	Pentachlorophenol	0.20	U
1912-24-9	Atrazine	0.040	U	**85-01-8**	**Phenanthrene**	**0.040**	**0.49**
100-52-7	Benzaldehyde	0.040	U	108-95-2	Phenol	0.040	U
56-55-3	**Benzo[a]anthracene**	**0.040**	**0.26**	**129-00-0**	**Pyrene**	**0.040**	**0.47**

Worksheet #: 696343 ***Total Target Concentration*** 3.9 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MW 10/2/23

Form1

ORGANICS SEMIVOLATILE REPORT

2

Sample Number: AD38586-002
Client Id: DUP
Data File: 7M129502.D
Analysis Date: 06/24/23 02:49
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 73

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.046	U	**50-32-8**	**Benzo[a]pyrene**	**0.046**	**0.33**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.046	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.046**	**0.60**
123-91-1	1,4-Dioxane	0.013	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.046**	**0.19**
58-90-2	2,3,4,6-Tetrachlorophenol	0.046	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.046**	**0.15**
95-95-4	2,4,5-Trichlorophenol	0.046	U	111-91-1	bis(2-Chloroethoxy)methan	0.046	U
88-06-2	2,4,6-Trichlorophenol	0.046	U	111-44-4	bis(2-Chloroethyl)ether	0.015	U
120-83-2	2,4-Dichlorophenol	0.015	U	108-60-1	bis(2-chloroisopropyl)ether	0.046	U
105-67-9	2,4-Dimethylphenol	0.026	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.42	U
51-28-5	2,4-Dinitrophenol	0.23	U	85-68-7	Butylbenzylphthalate	0.046	U
121-14-2	2,4-Dinitrotoluene	0.046	U	105-60-2	Caprolactam	0.046	U
606-20-2	2,6-Dinitrotoluene	0.046	U	**86-74-8**	**Carbazole**	**0.046**	**0.047**
91-58-7	2-Chloronaphthalene	0.046	U	**218-01-9**	**Chrysene**	**0.046**	**0.65**
95-57-8	2-Chlorophenol	0.046	U	**53-70-3**	**Dibenzo[a,h]anthracene**	**0.046**	**0.068**
91-57-6	**2-Methylnaphthalene**	**0.046**	**0.066**	**132-64-9**	**Dibenzofuran**	**0.012**	**0.054**
95-48-7	2-Methylphenol	0.014	U	84-66-2	Diethylphthalate	0.81	U
88-74-4	2-Nitroaniline	0.046	U	131-11-3	Dimethylphthalate	0.046	U
88-75-5	2-Nitrophenol	0.046	U	84-74-2	Di-n-butylphthalate	1.1	U
106-44-5	3&4-Methylphenol	0.015	U	117-84-0	Di-n-octylphthalate	0.046	U
91-94-1	3,3'-Dichlorobenzidine	0.046	U	**206-44-0**	**Fluoranthene**	**0.046**	**0.67**
99-09-2	3-Nitroaniline	0.046	U	86-73-7	Fluorene	0.046	U
534-52-1	4,6-Dinitro-2-methylphenol	0.23	U	118-74-1	Hexachlorobenzene	0.046	U
101-55-3	4-Bromophenyl-phenylether	0.046	U	87-68-3	Hexachlorobutadiene	0.046	U
59-50-7	4-Chloro-3-methylphenol	0.046	U	77-47-4	Hexachlorocyclopentadiene	0.15	~~U~~ UJ
106-47-8	4-Chloroaniline	0.016	~~U~~ UJ	67-72-1	Hexachloroethane	0.046	U
7005-72-3	4-Chlorophenyl-phenylether	0.046	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.046**	**0.17**
100-01-6	4-Nitroaniline	0.046	U	78-59-1	Isophorone	0.046	U
100-02-7	4-Nitrophenol	0.046	U	**91-20-3**	**Naphthalene**	**0.011**	**0.073**
83-32-9	Acenaphthene	0.046	U	98-95-3	Nitrobenzene	0.046	U
208-96-8	**Acenaphthylene**	**0.046**	**0.064**	621-64-7	N-Nitroso-di-n-propylamine	0.012	U
98-86-2	Acetophenone	0.046	U	86-30-6	n-Nitrosodiphenylamine	0.046	U
120-12-7	**Anthracene**	**0.046**	**0.082**	87-86-5	Pentachlorophenol	0.23	U
1912-24-9	Atrazine	0.046	U	**85-01-8**	**Phenanthrene**	**0.046**	**0.55**
100-52-7	Benzaldehyde	0.046	U	108-95-2	Phenol	0.046	U
56-55-3	**Benzo[a]anthracene**	**0.046**	**0.31**	**129-00-0**	**Pyrene**	**0.046**	**0.58**

Worksheet #: 696343

Total Target Concentration 4.7

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MW 10/29/23

3

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38586-003
Client Id: HB-2
Data File: 9M122466.D
Analysis Date: 06/23/23 17:23
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	0.040	U	**218-01-9**	**Chrysene**	**0.040**	**0.14**
83-32-9	Acenaphthene	0.040	U	53-70-3	Dibenzo[a,h]anthracene	0.040	U
208-96-8	Acenaphthylene	0.040	U	**206-44-0**	**Fluoranthene**	**0.040**	**0.18**
120-12-7	**Anthracene**	**0.040**	**0.041**	86-73-7	Fluorene	0.040	U
56-55-3	**Benzo[a]anthracene**	**0.040**	**0.14**	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.040**	**0.097**
50-32-8	**Benzo[a]pyrene**	**0.040**	**0.18**	**91-20-3**	**Naphthalene**	**0.010**	**0.021**
205-99-2	**Benzo[b]fluoranthene**	**0.040**	**0.20**	**85-01-8**	**Phenanthrene**	**0.040**	**0.14**
191-24-2	**Benzo[g,h,i]perylene**	**0.040**	**0.11**	**129-00-0**	**Pyrene**	**0.040**	**0.16**
207-08-9	**Benzo[k]fluoranthene**	**0.040**	**0.066**				

Worksheet #: 696345 *Total Target Concentration* 1.5 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MW 10/29/23

Form1

ORGANICS SEMIVOLATILE REPORT

4

Sample Number: AD38586-004
Client Id: HB-3
Data File: 7M129503.D
Analysis Date: 06/24/23 03:12
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 91

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	0.037	U	**218-01-9**	**Chrysene**	**0.037**	**0.25**
83-32-9	Acenaphthene	0.037	U	53-70-3	Dibenzo[a,h]anthracene	0.037	U
208-96-8	Acenaphthylene	0.037	U	**206-44-0**	**Fluoranthene**	**0.037**	**0.24**
120-12-7	**Anthracene**	**0.037**	**0.042**	86-73-7	Fluorene	0.037	U
56-55-3	**Benzo[a]anthracene**	**0.037**	**0.048**	193-39-5	Indeno[1,2,3-cd]pyrene	0.037	U
50-32-8	Benzo[a]pyrene	0.037	U	**91-20-3**	**Naphthalene**	**0.0092**	**0.012**
205-99-2	**Benzo[b]fluoranthene**	**0.037**	**0.12**	**85-01-8**	**Phenanthrene**	**0.037**	**0.13**
191-24-2	Benzo[g,h,i]perylene	0.037	U	**129-00-0**	**Pyrene**	**0.037**	**0.042**
207-08-9	Benzo[k]fluoranthene	0.037	U				

Worksheet #: 696345

Total Target Concentration 0.88

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MW 10/29/23

5

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38586-005
Client Id: OutbuildingSump
Data File: 10M97641.D
Analysis Date: 06/20/23 16:42
Date Rec/Extracted: 06/14/23-06/19/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U
207-08-9	Benzo[k]fluoranthene	2.0	U				

Worksheet #: 696345

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

jw 10/29/23

Form1

ORGANICS SEMIVOLATILE REPORT

6

Sample Number: AD38586-006
Client Id: TW-1
Data File: 10M97642.D
Analysis Date: 06/20/23 17:05
Date Rec/Extracted: 06/14/23-06/19/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	**206-44-0**	**Fluoranthene**	**2.0**	**2.3**
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	**Benzo[b]fluoranthene**	**2.0**	**2.0**	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	**129-00-0**	**Pyrene**	**2.0**	**2.3**
207-08-9	Benzo[k]fluoranthene	2.0	U				

Worksheet #: 696345

Total Target Concentration 6.6

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MW 10/29/23

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD38586-001
Client Id: HB-1 +QA\QC
Data File: 6G177651.D
Analysis Date: 06/26/23 06:19
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
5103-71-9	a-chlordane	0.0060	U	53494-70-5	Endrin Ketone	0.0060	U
309-00-2	Aldrin	0.0060	U	58-89-9	gamma-BHC	0.0012	U
319-84-6	alpha-BHC	0.0012	U	76-44-8	Heptachlor	0.0060	U
319-85-7	beta-BHC	0.0012	U	1024-57-3	Heptachlor Epoxide	0.0060	U
319-86-8	delta-BHC	0.0060	U	72-43-5	Methoxychlor	0.0060	U
60-57-1	**Dieldrin**	**0.0012**	**0.0029 d** J	**72-54-8**	**p,p'-DDD**	**0.0030**	**0.0045 d** J
959-98-8	Endosulfan I	0.0060	U	72-55-9	p,p'-DDE	0.0030	U
33213-65-9	Endosulfan II	0.0060	U	**50-29-3**	**p,p'-DDT**	**0.0030**	**0.026**
1031-07-8	Endosulfan Sulfate	0.0060	U	8001-35-2	Toxaphene	0.030	U
72-20-8	Endrin	0.0060	U	5103-74-2	y-chlordane	0.0060	U
7421-93-4	Endrin Aldehyde	0.0060	U	57-74-9	Chlordane (Total)	0.0060	U

Worksheet #: 696335

Total Target Concentration 0.033

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MW 10/29/23

Form1

ORGANICS PESTICIDE REPORT

2

Sample Number: AD38586-002
Client Id: DUP
Data File: 6G177650.D
Analysis Date: 06/26/23 06:08
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 73

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
5103-71-9	a-chlordane	0.0068	U	53494-70-5	Endrin Ketone	0.0068	U
309-00-2	Aldrin	0.0068	U	58-89-9	gamma-BHC	0.0014	U
319-84-6	alpha-BHC	0.0014	U	76-44-8	Heptachlor	0.0068	U
319-85-7	beta-BHC	0.0014	U	1024-57-3	Heptachlor Epoxide	0.0068	U
319-86-8	delta-BHC	0.0068	U	72-43-5	Methoxychlor	0.0068	U
60-57-1	Dieldrin	0.0014	U	72-54-8	p,p'-DDD	0.0034	U
959-98-8	Endosulfan I	0.0068	U	72-55-9	p,p'-DDE	0.0034	U
33213-65-9	Endosulfan II	0.0068	U	50-29-3	p,p'-DDT	0.0034	U
1031-07-8	Endosulfan Sulfate	0.0068	U	8001-35-2	Toxaphene	0.034	U
72-20-8	Endrin	0.0068	U	5103-74-2	y-chlordane	0.0068	U
7421-93-4	Endrin Aldehyde	0.0068	U	57-74-9	Chlordane (Total)	0.0068	U

Worksheet #: 696335

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of α-Chlordane and γ-Chlordane.

MW 10/29/23

Form1

ORGANICS PCB REPORT

Sample Number: AD38586-001
Client Id: HB-1 +QA\QC
Data File: 2G178089.D
Analysis Date: 06/25/23 22:22
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.030	U	11097-69-1	Aroclor-1254	0.030	U
11104-28-2	Aroclor-1221	0.030	U	11096-82-5	Aroclor-1260	0.030	U
11141-16-5	Aroclor-1232	0.030	U	37324-23-5	Aroclor-1262	0.030	U
53469-21-9	Aroclor-1242	0.030	U	11100-14-4	Aroclor-1268	0.030	U
12672-29-6	Aroclor-1248	0.030	U	1336-36-3	Aroclor (Total)	0.030	U

Worksheet #: 696318

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MJ 10/29/23

Form1

ORGANICS PCB REPORT

2

Sample Number: AD38586-002
Client Id: DUP
Data File: 2G178088.D
Analysis Date: 06/25/23 22:11
Date Rec/Extracted: 06/14/23-06/23/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Soil
Initial Vol: 20g
Final Vol: 10ml
Dilution: 1
Solids: 73

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.034	U	11097-69-1	Aroclor-1254	0.034	U
11104-28-2	Aroclor-1221	0.034	U	11096-82-5	Aroclor-1260	0.034	U
11141-16-5	Aroclor-1232	0.034	U	37324-23-5	Aroclor-1262	0.034	U
53469-21-9	Aroclor-1242	0.034	U	11100-14-4	Aroclor-1268	0.034	U
12672-29-6	Aroclor-1248	0.034	U	1336-36-3	Aroclor (Total)	0.034	U

Worksheet #: 696318

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MW 10/29/23

Form1

ORGANICS HERBICIDE REPORT

Sample Number: AD38586-001
Client Id: HB-1 +QA\QC
Data File: 12G42009.D
Analysis Date: 06/28/23 02:40
Date Rec/Extracted: 06/14/23-06/26/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8151A
Matrix: Soil
Initial Vol: 50g
Final Vol: 10ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
93-76-5	2,4,5-T	0.011	U	1918-00-9	Dicamba	0.011	U
94-75-7	2,4-D	0.011	U	93-72-1	Silvex	0.011	U

Worksheet #: 696586

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MS 06/29/23

Form1

ORGANICS HERBICIDE REPORT

2

Sample Number: AD38586-002
Client Id: DUP
Data File: 12G42010.D
Analysis Date: 06/28/23 03:00
Date Rec/Extracted: 06/14/23-06/26/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8151A
Matrix: Soil
Initial Vol: 50g
Final Vol: 10ml
Dilution: 1
Solids: 73

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
93-76-5	2,4,5-T	0.013	U	1918-00-9	Dicamba	0.013	U
94-75-7	2,4-D	0.013	U	93-72-1	Silvex	0.013	U

Worksheet #: 696586

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MJ 10/29/23

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38586-001	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	HB-1 +QA\QC	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/15/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	120	1200 J	1	0.5	100	06/19/23	1078801923ANEW		32	MS	MS3_7700SWA
7440-36-0	Antimony	0.96	9.3 J	1	0.5	100	06/19/23	1078801923ANEW		32	MS	MS3_7700SWA
7440-38-2	Arsenic	0.24	69 J	1	0.5	100	06/19/23	1078801923ANEW		32	MS	MS3_7700SWA
7440-39-3	Barium	1.2	150 J	1	0.5	100	06/19/23	1078801923ANEW		32	MS	MS3_7700SWA
7440-41-7	Beryllium	0.24	0.35	1	0.5	100	06/19/23	1078801923ANEW		32	MS	MS3_7700SWA
7440-43-9	Cadmium	0.48	ND UJ	1	0.5	100	06/19/23	1078801923ANEW		32	MS	MS3_7700SWA
7440-70-2	Calcium	120	3500 J	1	0.5	100	06/19/23	1078801923ANEW		32	MS	MS3_7700SWA
7440-47-3	Chromium	0.48	8.8	1	0.5	100	06/19/23	1078801923ANEW		32	MS	MS3_7700SWA
7440-48-4	Cobalt	0.48	3.9 J	1	0.5	100	06/19/23	1078801923ANEW		32	MS	MS3_7700SWA
7440-50-8	Copper	2.4	73 J	1	0.5	100	06/19/23	1078801923ANEW		32	MS	MS3_7700SWA
7439-89-6	Iron	120	18000	1	0.5	100	06/19/23	1078801923ANEW		32	MS	MS3_7700SWA
7439-92-1	Lead	0.48	350	1	0.5	100	06/19/23	1078801923ANEW		32	MS	MS3_7700SWA
7439-95-4	Magnesium	120	380 J	1	0.5	100	06/19/23	1078801923ANEW		32	MS	MS3_7700SWA
7439-96-5	Manganese	1.4	71 J	1	0.5	100	06/19/23	1078801923ANEW		32	MS	MS3_7700SWA
7440-02-0	Nickel	0.72	8.2	1	0.5	100	06/19/23	1078801923ANEW		32	MS	MS3_7700SWA
7440-09-7	Potassium	120	820 J	1	0.5	100	06/19/23	1078801923ANEW		32	MS	MS3_7700SWA
7782-49-2	Selenium	2.4	14 J	1	0.5	100	06/19/23	1078801923ANEW		32	MS	MS3_7700SWA
7440-22-4	Silver	0.24	0.27 J	1	0.5	100	06/19/23	1078801923ANEW		32	MS	MS3_7700SWA
7440-23-5	Sodium	120	280	1	0.5	100	06/19/23	1078801923ANEW		32	MS	MS3_7700SWA
7440-28-0	Thallium	0.48	1.6 J	1	0.5	100	06/19/23	1078801923ANEW		32	MS	MS3_7700SWA
7440-62-2	Vanadium	0.24	11	1	0.5	100	06/19/23	1078801923ANEW		32	MS	MS3_7700SWA
7440-66-6	Zinc	4.8	88 J	1	0.5	100	06/19/23	1078801923ANEW		32	MS	MS3_7700SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

MJ 10/29/23

Form1

Inorganic Analysis Data Sheet

2

Sample ID:	AD38586-002	% Solid:	73	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	DUP	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/15/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact		Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File	Seq Num	M	Instr
7429-90-5	Aluminum	140	2200	J	1	0.5	100	06/19/23	1078801923ANEW		48		MSMS3_7700SWA
7440-36-0	Antimony	1.1	8.4		1	0.5	100	06/19/23	1078801923ANEW		48		MSMS3_7700SWA
7440-38-2	Arsenic	0.27	48		1	0.5	100	06/19/23	1078801923ANEW		48		MSMS3_7700SWA
7440-39-3	Barium	1.4	110		1	0.5	100	06/19/23	1078801923ANEW		48		MSMS3_7700SWA
7440-41-7	Beryllium	0.27	0.45		1	0.5	100	06/19/23	1078801923ANEW		48		MSMS3_7700SWA
7440-43-9	Cadmium	0.55	ND	UJ	1	0.5	100	06/19/23	1078801923ANEW		48		MSMS3_7700SWA
7440-70-2	Calcium	140	12000	J	1	0.5	100	06/19/23	1078801923ANEW		48		MSMS3_7700SWA
7440-47-3	Chromium	0.55	8.6		1	0.5	100	06/19/23	1078801923ANEW		48		MSMS3_7700SWA
7440-48-4	Cobalt	0.55	7.2	J	1	0.5	100	06/19/23	1078801923ANEW		48		MSMS3_7700SWA
7440-50-8	Copper	2.7	110	J	1	0.5	100	06/19/23	1078801923ANEW		48		MSMS3_7700SWA
7439-89-6	Iron	140	16000		1	0.5	100	06/19/23	1078801923ANEW		48		MSMS3_7700SWA
7439-92-1	Lead	0.55	360		1	0.5	100	06/19/23	1078801923ANEW		48		MSMS3_7700SWA
7439-95-4	Magnesium	140	1100	J	1	0.5	100	06/19/23	1078801923ANEW		48		MSMS3_7700SWA
7439-96-5	Manganese	1.6	130	J	1	0.5	100	06/19/23	1078801923ANEW		48		MSMS3_7700SWA
7440-02-0	Nickel	0.82	9.9		1	0.5	100	06/19/23	1078801923ANEW		48		MSMS3_7700SWA
7440-09-7	Potassium	140	730	J	1	0.5	100	06/19/23	1078801923ANEW		48		MSMS3_7700SWA
7782-49-2	Selenium	2.7	10	J	1	0.5	100	06/19/23	1078801923ANEW		48		MSMS3_7700SWA
7440-22-4	Silver	0.27	ND	UJ	1	0.5	100	06/19/23	1078801923ANEW		48		MSMS3_7700SWA
7440-23-5	Sodium	140	220		1	0.5	100	06/19/23	1078801923ANEW		48		MSMS3_7700SWA
7440-28-0	Thallium	0.55	1.2	J	1	0.5	100	06/19/23	1078801923ANEW		48		MSMS3_7700SWA
7440-62-2	Vanadium	0.27	11		1	0.5	100	06/19/23	1078801923ANEW		48		MSMS3_7700SWA
7440-66-6	Zinc	5.5	120	J	1	0.5	100	06/19/23	1078801923ANEW		48		MSMS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

MW 10/29/23

Form1

Inorganic Analysis Data Sheet

3

Sample ID:	AD38586-003	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	HB-2	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/15/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact		Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.96	35	J	1	0.5	100	06/19/23	1078801923ANEW		49	MS	MS3_7700SWA
7440-38-2	Arsenic	1.2	190	J	5	0.5	100	06/19/23	1078801923ANEW		59	MS	MS3_7700SWA
7440-41-7	Beryllium	0.24	ND		1	0.5	100	06/19/23	1078801923ANEW		49	MS	MS3_7700SWA
7440-43-9	Cadmium	0.48	ND	UJ	1	0.5	100	06/19/23	1078801923ANEW		49	MS	MS3_7700SWA
7440-47-3	Chromium	0.48	4.6		1	0.5	100	06/19/23	1078801923ANEW		49	MS	MS3_7700SWA
7440-50-8	Copper	2.4	30	J	1	0.5	100	06/19/23	1078801923ANEW		49	MS	MS3_7700SWA
7439-92-1	Lead	2.4	710		5	0.5	100	06/19/23	1078801923ANEW		59	MS	MS3_7700SWA
7440-02-0	Nickel	0.72	5.0		1	0.5	100	06/19/23	1078801923ANEW		49	MS	MS3_7700SWA
7782-49-2	Selenium	2.4	21	J	1	0.5	100	06/19/23	1078801923ANEW		49	MS	MS3_7700SWA
7440-22-4	Silver	0.24	ND	UJ	1	0.5	100	06/19/23	1078801923ANEW		49	MS	MS3_7700SWA
7440-28-0	Thallium	0.48	ND	UJ	1	0.5	100	06/19/23	1078801923ANEW		49	MS	MS3_7700SWA
7440-66-6	Zinc	4.8	64	J	1	0.5	100	06/19/23	1078801923ANEW		49	MS	MS3_7700SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

MW 10/29/23

Form1

Inorganic Analysis Data Sheet

4

Sample ID:	AD38586-004	% Solid:	91	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	HB-3	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/15/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	0.88	1.3	J	1	0.5	100	06/19/23	1078801923ANEW	50	MS	MS3_7700SWA
7440-38-2	Arsenic	1.1	210	J	5	0.5	100	06/19/23	1078801923ANEW	60	MS	MS3_7700SWA
7440-41-7	Beryllium	0.22	0.61		1	0.5	100	06/19/23	1078801923ANEW	50	MS	MS3_7700SWA
7440-43-9	Cadmium	0.44	ND	UJ	1	0.5	100	06/19/23	1078801923ANEW	50	MS	MS3_7700SWA
7440-47-3	Chromium	0.44	11		1	0.5	100	06/19/23	1078801923ANEW	50	MS	MS3_7700SWA
7440-50-8	Copper	2.2	85	J	1	0.5	100	06/19/23	1078801923ANEW	50	MS	MS3_7700SWA
7439-92-1	Lead	0.44	87		1	0.5	100	06/19/23	1078801923ANEW	50	MS	MS3_7700SWA
7440-02-0	Nickel	0.66	15		1	0.5	100	06/19/23	1078801923ANEW	50	MS	MS3_7700SWA
7782-49-2	Selenium	2.2	38	J	1	0.5	100	06/19/23	1078801923ANEW	50	MS	MS3_7700SWA
7440-22-4	Silver	0.22	ND	UJ	1	0.5	100	06/19/23	1078801923ANEW	50	MS	MS3_7700SWA
7440-28-0	Thallium	0.44	0.97	J	1	0.5	100	06/19/23	1078801923ANEW	50	MS	MS3_7700SWA
7440-66-6	Zinc	4.4	53	J	1	0.5	100	06/19/23	1078801923ANEW	50	MS	MS3_7700SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

MR 10/29/23

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38586-001	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	HB-1 +QA\QC	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/15/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.10	0.23	1	0.15	25	06/20/23	107880	H29868S	13	CV	HGCV3A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

MW 10/29/23

Form1

Inorganic Analysis Data Sheet

2

Sample ID:	AD38586-002	% Solid:	73	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	DUP	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/15/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.11	0.36	1	0.15	25	06/20/23	107880	H29868S	17	CV	HGCV3A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

MR 10/29/23

Form1

Inorganic Analysis Data Sheet

3

Sample ID:	AD38586-003	% Solid:	83	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	HB-2	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/15/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.10	0.82	1	0.15	25	06/20/23	107880	H29868S	18	CV	HGCV3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

MJ 10/29/23

Form1

Inorganic Analysis Data Sheet

4

Sample ID:	AD38586-004	% Solid:	91	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	HB-3	Units:	MG/KG	Lab Code:		Sdg No:	
Matrix:	SOIL	Date Rec:	6/15/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.092	1.4	1	0.15	25	06/20/23	107880	H29868S	19	CV	HGCV3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

NW 10/29/23

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
510-514 WEST LIBERTY STREET, NEW YORK

Client: HRP Associates, In., Clifton Park, New York
SDG: AD38758/460-282979-1
Laboratory: Hampton-Clarke Analytical, Fairfield, New Jersey
Eurofins, Edison, New Jersey
Eurofins Lancaster Laboratories, Lancaster, Pennsylvania
Site: 510-514 West Liberty Street, Rome, New York
Date: December 5, 2023

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	MW-2_6 22 23	AD38758-001	Water
1MS	MW-2_6 22 23MS	AD38758-002MS	Water
1MSD	MW-2_6 22 23MSD	AD38758-003MSD	Water
2	DUP-1	AD38758-004	Water
3	FIELD BLANK	AD38758-005	Water

A Data Usability Summary Review was performed on the analytical data for three water samples collected on June 22, 2023 by HRP at the 510-514 West Liberty Street site in Rome, New York. The samples were analyzed under the USEPA Method for the Determination of Selected Per- and Polyfluorinated Alkyl Substances in Environmental Samples by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS).

Specific method references are as follows:

Analysis	*Method References*
PFAS/TSS	USEPA Draft Method 1633

The data have been validated according to the protocols and quality control (QC) requirements of the analytical method and the NYSDEC Data Review Guidelines as follows:

- New York State Department of Environmental Conservation (NYSDEC) Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS), April 2023;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

PFAS

- Data Completeness
- Holding times and sample preservation
- Liquid Chromatography (LC)/Mass Spectroscopy (MS) tuning
- Initial and continuing calibration summaries

- Method blank and field blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Compound Quantitation
- Internal standard area and retention time summary forms
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Perfluorinated Alkyl Substances (PFAS) & Total Suspended Solids (TSS)

Holding Times

- All holding time criteria were met.

LC/MS Tuning

- All criteria were met.

Initial Calibration

- All relative standard deviation (%RSD) and/or correlation coefficients and mean RRF criteria were met.

Continuing Calibration

- All percent difference (%D) and RRF criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- The following table lists field blanks with contamination and the samples associated with the blanks that had results qualified as a consequence of the blank contamination. Detected sample concentrations less than ten times (10x) the highest associated blank (after taking sample dilution levels, percent moisture and sample volume into account) are negated and qualified with a (U).

Sample ID	Compound	Conc. ng/L	Qualifier	Affected Samples
FIELD BLANK	None - ND	-	-	-

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples exhibited percent recoveries (%R) and RPD values.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Target Compound Identification

- All mass spectra and quantitation criteria were met.

Compound Quantitation

- EDS Sample 1 reported PFPeA with an estimated maximum possible concentration (EMPC) and was flagged (I) by the laboratory. This result was qualified as estimated (J).

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

Compound	MW-2_6 22 23 ng/L	DUP-1 ng/L	RPD	Qualifier
PFOA	3.57	2.72	27%	None
PFHpA	1.27	0.99U	NC	
PFOS	2.90	3.04	5%	
PFHxA	0.94U	2.17	NC	
PFPeA	2.26	1.95	15%	
PFBS	2.58	2.77	7%	
TSS	60.0 mg/L	60.0 mg/L	0%	

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 12/5/23

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

1

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: AD38758-001 Lab Sample ID: 460-282979-1

Matrix: Water Lab File ID: 23AUG08-56.d

Analysis Method: 1633 Date Collected: 06/22/2023 13:22

Extraction Method: 1633 Date Extracted: 07/17/2023 07:22

Sample wt/vol: 265.4(mL) Date Analyzed: 08/08/2023 22:32

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.88	U	15.1	1.88
355-46-4	Perfluorohexanesulfonic acid	1.07	U	3.77	1.07
2058-94-8	Perfluoroundecanoic acid	0.94	U	3.77	0.94
335-67-1	Perfluorooctanoic acid	3.57	J	3.77	1.21
335-77-3	Perfluorodecanesulfonic acid	0.94	U	3.77	0.94
376-06-7	Perfluorotetradecanoic acid	0.94	U	3.77	0.94
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.83	U	15.1	2.83
31506-32-8	NMeFOSA	0.94	U	3.77	0.94
812-70-4	7:3 FTCA	18.8	U	94.2	18.8
335-76-2	Perfluorodecanoic acid	0.94	U	3.77	0.94
72629-94-8	Perfluorotridecanoic acid	0.94	U	3.77	0.94
113507-82-7	PFEESA	0.94	U	7.54	0.94
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	0.94	U	3.77	0.94
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	3.20	U	15.1	3.20
375-95-1	Perfluorononanoic acid	0.94	U	3.77	0.94
13252-13-6	HFPO-DA	3.77	U	15.1	3.77
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	9.42	U	37.7	9.42
2706-91-4	Perfluoropentanesulfonic acid	0.94	U	3.77	0.94
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	4.71	U	15.1	4.71
68259-12-1	Perfluorononanesulfonic acid	0.75	U	3.77	0.75
375-85-9	Perfluoroheptanoic acid	1.27	J	3.77	0.98
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	3.77	U	15.1	3.77
1763-23-1	Perfluorooctanesulfonic acid	2.90	J	3.77	0.94
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	4.90	U	15.1	4.90
377-73-1	Perfluoro-3-methoxypropanoic acid	0.94	U	7.54	0.94
375-22-4	Perfluorobutanoic acid	3.77	U	15.1	3.77
2991-50-6	NEtFOSAA	1.32	U	3.77	1.32

NW 12/5/23

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: AD38758-001 Lab Sample ID: 460-282979-1

Matrix: Water Lab File ID: 23AUG08-56.d

Analysis Method: 1633 Date Collected: 06/22/2023 13:22

Extraction Method: 1633 Date Extracted: 07/17/2023 07:22

Sample wt/vol: 265.4(mL) Date Analyzed: 08/08/2023 22:32

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-55-1	Perfluorododecanoic acid	0.94	U	3.77	0.94
307-24-4	Perfluorohexanoic acid	0.94	U	3.77	0.94
863090-89-5	Perfluoro(4-methoxybutanoic acid)	1.88	U	7.54	1.88
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	1.88	U	7.54	1.88
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1.70	U	3.77	1.70
2706-90-3	Perfluoropentanoic acid	2.26	~~J~~ J	7.54	1.88
914637-49-3	5:3 FTCA	18.8	U	94.2	18.8
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	9.42	U	37.7	9.42
754-91-6	Perfluorooctanesulfonamide	0.94	U	3.77	0.94
356-02-5	3:3 FTCA	2.83	U	18.8	2.83
2355-31-9	NMeFOSAA	2.26	U	7.54	2.26
375-73-5	Perfluorobutanesulfonic acid	2.58	J	3.77	0.57
375-92-8	Perfluoroheptanesulfonic acid	0.75	U	3.77	0.75

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

2

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: AD38758-004 Lab Sample ID: 460-282979-2

Matrix: Water Lab File ID: 23AUG08-61.d

Analysis Method: 1633 Date Collected: 06/22/2023 00:00

Extraction Method: 1633 Date Extracted: 07/17/2023 07:22

Sample wt/vol: 263.4(mL) Date Analyzed: 08/08/2023 23:37

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.90	U	15.2	1.90
355-46-4	Perfluorohexanesulfonic acid	1.08	U	3.80	1.08
2058-94-8	Perfluoroundecanoic acid	0.95	U	3.80	0.95
335-67-1	Perfluorooctanoic acid	2.72	J	3.80	1.21
335-77-3	Perfluorodecanesulfonic acid	0.95	U	3.80	0.95
376-06-7	Perfluorotetradecanoic acid	0.95	U	3.80	0.95
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.85	U	15.2	2.85
31506-32-8	NMeFOSA	0.95	U	3.80	0.95
812-70-4	7:3 FTCA	19.0	U	94.9	19.0
335-76-2	Perfluorodecanoic acid	0.95	U	3.80	0.95
72629-94-8	Perfluorotridecanoic acid	0.95	U	3.80	0.95
113507-82-7	PFEESA	0.95	U	7.59	0.95
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	0.95	U	3.80	0.95
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	3.23	U	15.2	3.23
375-95-1	Perfluorononanoic acid	0.95	U	3.80	0.95
13252-13-6	HFPO-DA	3.80	U	15.2	3.80
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	9.49	U	38.0	9.49
2706-91-4	Perfluoropentanesulfonic acid	0.95	U	3.80	0.95
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	4.75	U	15.2	4.75
68259-12-1	Perfluorononanesulfonic acid	0.76	U	3.80	0.76
375-85-9	Perfluoroheptanoic acid	0.99	U	3.80	0.99
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	3.80	U	15.2	3.80
1763-23-1	Perfluorooctanesulfonic acid	3.04	J	3.80	0.95
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	4.94	U	15.2	4.94
377-73-1	Perfluoro-3-methoxypropanoic acid	0.95	U	7.59	0.95
375-22-4	Perfluorobutanoic acid	3.80	U	15.2	3.80
2991-50-6	NEtFOSAA	1.33	U	3.80	1.33

MW 12/5/23

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

2

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: AD38758-004 Lab Sample ID: 460-282979-2

Matrix: Water Lab File ID: 23AUG08-61.d

Analysis Method: 1633 Date Collected: 06/22/2023 00:00

Extraction Method: 1633 Date Extracted: 07/17/2023 07:22

Sample wt/vol: 263.4(mL) Date Analyzed: 08/08/2023 23:37

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-55-1	Perfluorododecanoic acid	0.95	U	3.80	0.95
307-24-4	Perfluorohexanoic acid	2.17	J	3.80	0.95
863090-89-5	Perfluoro(4-methoxybutanoic acid)	1.90	U	7.59	1.90
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	1.90	U	7.59	1.90
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1.71	U	3.80	1.71
2706-90-3	Perfluoropentanoic acid	1.95	J	7.59	1.90
914637-49-3	5:3 FTCA	19.0	U	94.9	19.0
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	9.49	U	38.0	9.49
754-91-6	Perfluorooctanesulfonamide	0.95	U	3.80	0.95
356-02-5	3:3 FTCA	2.85	U	19.0	2.85
2355-31-9	NMeFOSAA	2.28	U	7.59	2.28
375-73-5	Perfluorobutanesulfonic acid	2.77	J	3.80	0.57
375-92-8	Perfluoroheptanesulfonic acid	0.76	U	3.80	0.76

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 460-282979-1

SDG No.:

Client Sample ID: AD38758-005 Lab Sample ID: 460-282979-3

Matrix: Water Lab File ID: 23AUG08-62.d

Analysis Method: 1633 Date Collected: 06/22/2023 14:00

Extraction Method: 1633 Date Extracted: 07/17/2023 07:22

Sample wt/vol: 257.7(mL) Date Analyzed: 08/08/2023 23:50

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids: GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.94	U	15.5	1.94
355-46-4	Perfluorohexanesulfonic acid	1.11	U	3.88	1.11
2058-94-8	Perfluoroundecanoic acid	0.97	U	3.88	0.97
335-67-1	Perfluorooctanoic acid	1.24	U	3.88	1.24
335-77-3	Perfluorodecanesulfonic acid	0.97	U	3.88	0.97
376-06-7	Perfluorotetradecanoic acid	0.97	U	3.88	0.97
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	2.91	U	15.5	2.91
31506-32-8	NMeFOSA	0.97	U	3.88	0.97
812-70-4	7:3 FTCA	19.4	U	97.0	19.4
335-76-2	Perfluorodecanoic acid	0.97	U	3.88	0.97
72629-94-8	Perfluorotridecanoic acid	0.97	U	3.88	0.97
113507-82-7	PFEESA	0.97	U	7.76	0.97
4151-50-2	N-ethylperfluoro-1-octanesulfonamide	0.97	U	3.88	0.97
757124-72-4	1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	3.30	U	15.5	3.30
375-95-1	Perfluorononanoic acid	0.97	U	3.88	0.97
13252-13-6	HFPO-DA	3.88	U	15.5	3.88
24448-09-7	2-(N-methylperfluoro-1-octanesulfonamido) ethanol	9.70	U	38.8	9.70
2706-91-4	Perfluoropentanesulfonic acid	0.97	U	3.88	0.97
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	4.85	U	15.5	4.85
68259-12-1	Perfluorononanesulfonic acid	0.78	U	3.88	0.78
375-85-9	Perfluoroheptanoic acid	1.01	U	3.88	1.01
763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	3.88	U	15.5	3.88
1763-23-1	Perfluorooctanesulfonic acid	0.97	U	3.88	0.97
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	5.04	U	15.5	5.04
377-73-1	Perfluoro-3-methoxypropanoic acid	0.97	U	7.76	0.97
375-22-4	Perfluorobutanoic acid	3.88	U	15.5	3.88
2991-50-6	NEtFOSAA	1.36	U	3.88	1.36

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

3

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 460-282979-1

SDG No.:

Client Sample ID: AD38758-005
Lab Sample ID: 460-282979-3

Matrix: Water
Lab File ID: 23AUG08-62.d

Analysis Method: 1633
Date Collected: 06/22/2023 14:00

Extraction Method: 1633
Date Extracted: 07/17/2023 07:22

Sample wt/vol: 257.7(mL)
Date Analyzed: 08/08/2023 23:50

Con. Extract Vol.: 5(mL)
Dilution Factor: 1

Injection Volume: 2(uL)
GC Column: Gemini C18 50mm ID: 3(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:

Analysis Batch No.: 405691
Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-55-1	Perfluorododecanoic acid	0.97	U	3.88	0.97
307-24-4	Perfluorohexanoic acid	0.97	U	3.88	0.97
863090-89-5	Perfluoro(4-methoxybutanoic acid)	1.94	U	7.76	1.94
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid	1.94	U	7.76	1.94
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1.75	U	3.88	1.75
2706-90-3	Perfluoropentanoic acid	1.94	U	7.76	1.94
914637-49-3	5:3 FTCA	19.4	U	97.0	19.4
1691-99-2	2-(N-ethylperfluoro-1-octanesulfonamido) ethanol	9.70	U	38.8	9.70
754-91-6	Perfluorooctanesulfonamide	0.97	U	3.88	0.97
356-02-5	3:3 FTCA	2.91	U	19.4	2.91
2355-31-9	NMeFOSAA	2.33	U	7.76	2.33
375-73-5	Perfluorobutanesulfonic acid	0.58	U	3.88	0.58
375-92-8	Perfluoroheptanesulfonic acid	0.78	U	3.88	0.78

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

1

Client Sample ID: AD38758-001
Lab Sample ID: 460-282979-1
Lab Name: Eurofins Lancaster Laboratories Environment T
Job No.: 460-282979-1
SDG ID.:
Matrix: Water
Date Sampled: 06/22/2023 13:22
Reporting Basis: WET
Date Received: 06/23/2023 15:50

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Total Suspended Solids	60.0	3.0		mg/L			1	1633 DRAFT

MW 12/5/23

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

2

Client Sample ID: AD38758-004
Lab Sample ID: 460-282979-2
Lab Name: Eurofins Lancaster Laboratories Environment T
Job No.: 460-282979-1
SDG ID.:
Matrix: Water
Date Sampled: 06/22/2023 00:00
Reporting Basis: WET
Date Received: 06/23/2023 15:50

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Total Suspended Solids	60.0	3.0		mg/L			1	1633 DRAFT

MW 12/5/23

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
510-514 WEST LIBERTY STREET, NEW YORK

Client: HRP Associates, In., Clifton Park, New York
SDG: AD38798/3062404
Laboratory: Hampton-Clarke Analytical, Fairfield, New Jersey
Site: 510-514 West Liberty Street, Rome, New York
Date: October 29, 2023

VOC/Metals/Hg			
EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	MW-1_6.22.23	AD38798-001	Water
2	MW-2_6.22.23	AD38798-002	Water
3	MW-3_6.22.23	AD38798-003	Water
4MS	MW-2_6.22.23MS	AD38798-004MS	Water
5MSD	MW-2_6.22.23MSD	AD38798-005MSD	Water
6	DUP-1	AD38798-006	Water
7	FIELD BLANK	AD38798-007	Water

SVOC/Pesticides/PCB/Herbicides			
EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
2	MW-2_6.22.23	AD38798-002	Water
4MS	MW-2_6.22.23MS	AD38798-004MS	Water
5MSD	MW-2_6.22.23MSD	AD38798-005MSD	Water
6	DUP-1	AD38798-006	Water
7	FIELD BLANK	AD38798-007	Water

PAH			
EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	MW-1_6.22.23	AD38798-001	Water
3	MW-3_6.22.23	AD38798-003	Water

A Data Usability Summary Review was performed on the analytical data for four water samples and one aqueous field blank samples collected on June 22, 2023 by HRP at the 510-514 W. Liberty Street site in Rome, New York. The samples were analyzed under Environmental Protection Agency (USEPA) "Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions".

Specific method references are as follows:

Analysis	*Method References*
VOC	USEPA SW-846 Method 8260D
SVOC	USEPA SW-846 Method 8270E
PAH	USEPA SW-846 Method 8270E
1,4-Dioxane	USEPA SW-846 Method 8270E SIM

Analysis	*Method References*
Pesticides	USEPA SW-846 Method 8081B
PCBs	USEPA SW-846 Method 8082A
Herbicides	USEPA SW-846 Method 8151A
Metals/Mercury	USEPA SW-846 Method 6020B/7470A

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number HW-33A, Revision 1, September 2016: Low/Medium Volatile Data Validation;
- SOP Number HW-35A, Revision 1, September 2016: Semivolatile Data Validation;
- SOP Number HW-36A, Revision 1, October 2016: Pesticide Data Validation;
- SOP Number HW-37A, Revision 0, June 2015: Polychlorinated Biphenyl (PCB) Aroclor Data Validation;
- SOP Number HW-17, Revision 3.1, December 2010: Validating Chlorinated Herbicides;
- SOP Number HW-3b, Revision 1, September 2016: ICP-MS Data Validation;
- SOP Number HW-3c, Revision 1, September 2016: Mercury and Cyanide Data Validation;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

Organics

- Data Completeness
- Holding times and sample preservation
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Method blank and field blank contamination
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning
- Initial and continuing calibration summaries
- Compound Quantitation
- Internal standard area and retention time summary forms
- Tentatively Identified Compounds (TICs)
- Field Duplicate sample precision

Inorganics

- Data Completeness
- Holding times and sample preservation
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Duplicate Sample Analysis recoveries
- Laboratory Control Sample (LCS) recoveries
- Method blank and field blank contamination
- Initial and continuing calibration verifications

- Compound Quantitation
- ICP Serial Dilution
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Volatile Organic Compounds (VOCs)

Holding Times

- All samples were analyzed within 14 days for preserved water samples.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

MS/MSD Sample ID	Compound	MS %R/MSD %R/ RPD	Qualifier
2	Dibromochloromethane	45%/OK/OK	UJ
	cis-1,3-Dichloropropene	46%/OK/OK	
	trans-1,3-Dichloropropene	46%/OK/OK	
	1,1,2-Trichloroethane	48%/51%/OK	
	1,2-Dibromoethane	50%/54%/OK	
	4-Methyl-2-pentanone	178%/184%/OK	None - Sample ND
	2-Hexanone	174%/194%/OK	
	Tetrachloroethene	44%/OK/OK	UJ
	Bromoform	44%/OK/OK	

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Method Blank

- The method blanks were free of contamination.

Field Blank

- The following table lists field blanks with contamination and the samples associated with the blanks that had results qualified as a consequence of the blank contamination. Detected sample concentrations of methylene chloride, 2-butanone, toluene or acetone (common laboratory contaminants) less than ten times (10x) the highest associated blank (after taking sample dilution levels, percent moisture and sample volume into account) are negated and qualified with a (U). For all other compounds, an action level of five times (5x) the highest associated blank concentration is used.

Sample ID	Compound	Conc. ug/L	Qualifier	Affected Samples
FIELD BLANK	Acetone	12	None	All Samples ND
	Methylene Chloride	2.1	None	

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients and mean RRF values.

Continuing Calibration

- The following table presents compounds that exceeded percent difference (%D) and/or RRF values <0.05 (0.01 for poor performers) in the continuing calibration (CCAL). A low RRF indicates poor instrument sensitivity for these compounds. Positive results for these compounds in the affected samples are considered estimated and qualified (J). Non-detect results for these compounds in the affected samples are rejected (R) and are unusable for project objectives. A high %D may indicate a potential high or low bias. All results for these compounds in affected samples are considered estimated and qualified (J/UJ).

CCAL Date	Compound	%D/RRF	Qualifier	Affected Samples
06/26/23 (0822)	Methyl Acetate	27.2%	UJ	All Samples
	cis-1,2-Dichloroethene	24.4%		
	Bromochloromethane	33.6%		
	Chloroform	26.1%		
	Cyclohexane	25.6%		
	1,2-Dichloroethane	28.8%		
	1,1,1-Trichloroethane	22.0%		
	Carbon Tetrachloride	29.2%		
	Bromodichloromethane	34.6%		
	Methylcyclohexane	24.7%		
	Trichloroethene	24.5%		

Compound Quantitation

- All criteria were met.

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

Compound	MW-2_6.22.23 ug/L	DUP-1 ug/L	RPD	Qualifier
None	ND	ND	-	-

Semivolatile Organic Compounds (SVOC)/PAH/1,4-Dioxane

Holding Times

- All samples were extracted within 7 days for water samples and analyzed within 40 days.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples exhibited acceptable percent recoveries (%R) and RPD values.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Method Blank

- The method blanks were free of contamination.

Field Blank

- The following table lists field blanks with contamination and the samples associated with the blanks that had results qualified as a consequence of the blank contamination. Detected sample concentrations of phthalates (common laboratory contaminants) less than ten times (10x) the highest associated blank (after taking sample dilution levels, percent moisture and sample volume into account) are negated and qualified with a (U). For all other compounds, an action level of five times (5x) the highest associated blank concentration is used.

Sample ID	Compound	Conc. ug/L	Qualifier	Affected Samples
FIELD BLANK	None - ND	-	-	-

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients and mean RRF values.

Continuing Calibration

- The continuing calibrations exhibited acceptable %D and RRF values.

Compound Quantitation

- All criteria were met.

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

SVOC				
Compound	MW-2_6.22.23 ug/L	DUP-1 ug/L	RPD	Qualifier
None	ND	ND	-	-

1,4-Dioxane				
Compound	MW-2_6.22.23 ug/L	DUP-1 ug/L	RPD	Qualifier
None	ND	ND	-	-

Pesticides/Polychlorinated Biphenyls (PCBs)

Holding Times

- All samples were extracted within 7 days for water samples and analyzed within 40 days.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

PCBs			
MS/MSD Sample ID	Compound	MS %R/MSD %R/ RPD	Qualifier
2	Aroclor-1260	157%/161%/OK	None - Sample ND

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Method Blank

- The method blanks were free of contamination.

Field Blank

- The following table lists field blanks with contamination and the samples associated with the blanks that had results qualified as a consequence of the blank contamination. Detected sample concentrations less than five times (5x) the highest associated blank (after taking sample dilution levels, percent moisture and sample volume into account) are negated and qualified with a (U).

Sample ID	Compound	Conc. ug/L	Qualifier	Affected Samples
FIELD BLANK	None - ND	-	-	-

Initial Calibration

- All %RSD and/or correlation coefficient criteria were met.

Continuing Calibration

- All %D criteria were met.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

Pesticides				
Compound	MW-2_6.22.23 ug/L	DUP-1 ug/L	RPD	Qualifier
None	ND	ND	-	-

PCBs				
Compound	MW-2_6.22.23 ug/L	DUP-1 ug/L	RPD	Qualifier
None	ND	ND	-	-

GC Column Difference Results

- All criteria were met.

Herbicides

Holding Times

- All samples were extracted within 7 days for water samples and analyzed within 40 days.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD samples exhibited acceptable percent recoveries (%R) and RPD values.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Method Blank

- The method blanks were free of contamination.

Field Blank

- The following table lists field blanks with contamination and the samples associated with the blanks that had results qualified as a consequence of the blank contamination. Detected sample concentrations less than five times (5x) the highest associated blank (after taking sample dilution levels, percent moisture and sample volume into account) are negated and qualified with a (U).

Sample ID	Compound	Conc. ug/L	Qualifier	Affected Samples
FIELD BLANK	None - ND	-	-	-

Initial Calibration

- All %RSD and/or correlation coefficient criteria were met.

Continuing Calibration

- All %D criteria were met.

Compound Quantitation

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

Compound	MW-2_6.22.23 ug/L	DUP-1 ug/L	RPD	Qualifier
None	ND	ND	-	-

GC Column Difference Results

- All criteria were met.

Metals, Mercury

Holding Times

- All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

MS/MSD Sample ID	Compound	MS %R/MSD %R/RPD	Qualifier	Affected samples
2	Calcium	140%/OK/OK	J	2, 6

Duplicate Sample Analysis

- Duplicate samples were not analyzed.

Laboratory Control Samples

- The LCS sample exhibited acceptable recoveries.

Method Blank

- The method blanks were free of contamination.

Field Blank

- The following table lists field blanks with contamination and the samples associated with the blanks that had results qualified as a consequence of the blank contamination. Detected sample concentrations less than ten times (10x) the highest associated blank (after taking sample dilution levels, percent moisture and sample volume into account) are negated and qualified with a (U).

Sample ID	Compound	Conc. ug/L	Qualifier	Affected Samples
FIELD BLANK	None - ND	-	-	-

Initial Calibration Verification

- All initial calibration criteria were met.

Continuing Calibration Verification

- All continuing calibration criteria were met.

Compound Quantitation

- All criteria were met.

ICP Serial Dilution

- ICP serial dilution percent differences (%D) were within acceptance limits except the following. For a high %D, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

Sample ID	Compound	%D	Qualifier	Affected Samples
2	Arsenic	38%	None	Samples ND
	Calcium	15%	None	See MS/MSD
	Cobalt	21%	None	Samples ND
	Iron	13%	J	6
	Magnesium	17%	J	2, 6
	Manganese	17%	J	
	Potassium	16%	J	
	Vanadium	17%	None	Samples ND

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was acceptable.

Compound	MW-2_6.22.23 ug/L	DUP-1 ug/L	RPD	Qualifier
Calcium	94000	100000	6%	
Iron	300U	320	NC	
Magnesium	16000	17000	6%	
Manganese	360	360	0%	
Potassium	2500	2400	4%	
Sodium	150000	150000	0%	

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 10/31/23

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38798-001
Client Id: MW-1_6.22.23
Data File: 11M112489.D
Analysis Date: 06/26/23 15:00
Date Rec/Extracted: 06/23/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U UJ	56-23-5	Carbon Tetrachloride	1.0	U UJ
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U UJ
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U UJ
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U UJ
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.66	U UJ	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U UJ
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U UJ
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U UJ	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U UJ	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U UJ
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 697497

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MW 10-29-23

Form1

ORGANICS VOLATILE REPORT

2

Sample Number: AD38798-002
Client Id: MW-2_6.22.23
Data File: 11M112490.D
Analysis Date: 06/26/23 15:19
Date Rec/Extracted: 06/23/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	~~U~~ UJ	56-23-5	Carbon Tetrachloride	1.0	~~U~~ UJ
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	~~U~~ UJ	67-66-3	Chloroform	1.0	~~U~~ UJ
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	~~U~~ UJ
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	~~U~~ UJ
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	~~U~~ UJ
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	~~U~~ UJ
106-93-4	1,2-Dibromoethane	1.0	~~U~~ UJ	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.66	~~U~~ UJ	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	~~U~~ UJ
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	~~U~~ UJ
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	~~U~~ UJ
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	~~U~~ UJ	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	~~U~~ UJ	10061-02-6	trans-1,3-Dichloropropene	1.0	~~U~~ UJ
75-25-2	Bromoform	1.0	~~U~~ UJ	79-01-6	Trichloroethene	1.0	~~U~~ UJ
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 697497

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.

R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MW10129123

Form1

ORGANICS VOLATILE REPORT

3

Sample Number: AD38798-003
Client Id: MW-3_6.22.23
Data File: 11M112488.D
Analysis Date: 06/26/23 14:41
Date Rec/Extracted: 06/23/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U UJ	56-23-5	Carbon Tetrachloride	1.0	U UJ
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U UJ
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U UJ
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U UJ
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.66	U UJ	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U UJ
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U UJ
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U UJ	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U UJ	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U UJ
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 697497

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MW 10/29/23

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD38798-006
Client Id: DUP-1
Data File: 11M112491.D
Analysis Date: 06/26/23 15:38
Date Rec/Extracted: 06/23/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U UJ	56-23-5	Carbon Tetrachloride	1.0	U UJ
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U UJ
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U UJ
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U UJ
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.66	U UJ	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U UJ
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U UJ
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U UJ	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U UJ	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U UJ
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 697497

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

NW10129123

Form1

ORGANICS VOLATILE REPORT

7

Sample Number: AD38798-007
Client Id: Field Blank
Data File: 11M112487.D
Analysis Date: 06/26/23 14:22
Date Rec/Extracted: 06/23/23-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	~~U~~ UJ	56-23-5	Carbon Tetrachloride	1.0	~~U~~ UJ
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	~~U~~ UJ
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	~~U~~ UJ
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	~~U~~ UJ
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.66	~~U~~ UJ	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	~~U~~ UJ
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	~~U~~ UJ
123-91-1	1,4-Dioxane	50	U	**75-09-2**	**Methylene Chloride**	**1.0**	**2.1**
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	**Acetone**	**5.0**	**12**	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	~~U~~ UJ	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	~~U~~ UJ	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	~~U~~ UJ
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MW 10/29/23

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38798-001
Client Id: MW-1_6.22.23
Data File: 5M124301.D
Analysis Date: 06/28/23 19:13
Date Rec/Extracted: 06/23/23-06/28/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U
207-08-9	Benzo[k]fluoranthene	2.0	U				

Worksheet #: 697640

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

NW 10/29/23

Form1

ORGANICS SEMIVOLATILE REPORT

2

Sample Number: AD38798-002
Client Id: MW-2_6.22.23
Data File: 5M124298.D
Analysis Date: 06/28/23 18:01
Date Rec/Extracted: 06/23/23-06/28/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	U	50-32-8	Benzo[a]pyrene	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	205-99-2	Benzo[b]fluoranthene	2.0	U
123-91-1	1,4-Dioxane	0.50	U	191-24-2	Benzo[g,h,i]perylene	2.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	207-08-9	Benzo[k]fluoranthene	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U	111-91-1	bis(2-Chloroethoxy)methan	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	111-44-4	bis(2-Chloroethyl)ether	0.51	U
120-83-2	2,4-Dichlorophenol	0.62	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
105-67-9	2,4-Dimethylphenol	1.1	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	85-68-7	Butylbenzylphthalate	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	105-60-2	Caprolactam	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	86-74-8	Carbazole	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
95-57-8	2-Chlorophenol	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	132-64-9	Dibenzofuran	0.59	U
95-48-7	2-Methylphenol	0.59	U	84-66-2	Diethylphthalate	2.0	U
88-74-4	2-Nitroaniline	2.0	U	131-11-3	Dimethylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	84-74-2	Di-n-butylphthalate	0.72	U
106-44-5	3&4-Methylphenol	0.64	U	117-84-0	Di-n-octylphthalate	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	206-44-0	Fluoranthene	2.0	U
99-09-2	3-Nitroaniline	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	6.8	U
106-47-8	4-Chloroaniline	0.59	U	67-72-1	Hexachloroethane	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
100-01-6	4-Nitroaniline	2.0	U	78-59-1	Isophorone	2.0	U
100-02-7	4-Nitrophenol	2.0	U	91-20-3	Naphthalene	0.50	U
83-32-9	Acenaphthene	2.0	U	98-95-3	Nitrobenzene	2.0	U
208-96-8	Acenaphthylene	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.61	U
98-86-2	Acetophenone	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
120-12-7	Anthracene	2.0	U	87-86-5	Pentachlorophenol	10	U
1912-24-9	Atrazine	2.0	U	85-01-8	Phenanthrene	2.0	U
100-52-7	Benzaldehyde	2.0	U	108-95-2	Phenol	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 697606

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

10/29/23

2

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD38798-002
Client Id: MW-2_6.22.23
Data File: 12M67399.D
Analysis Date: 06/28/23 16:53
Date Rec/Extracted: 06/23/23-06/28/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 697610

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

NEW 10/29/23

Form1

ORGANICS SEMIVOLATILE REPORT

3

Sample Number: AD38798-003
Client Id: MW-3_6.22.23
Data File: 5M124302.D
Analysis Date: 06/28/23 19:38
Date Rec/Extracted: 06/23/23-06/28/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
91-57-6	2-Methylnaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
83-32-9	Acenaphthene	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
208-96-8	Acenaphthylene	2.0	U	206-44-0	Fluoranthene	2.0	U
120-12-7	Anthracene	2.0	U	86-73-7	Fluorene	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U	91-20-3	Naphthalene	0.50	U
205-99-2	Benzo[b]fluoranthene	2.0	U	85-01-8	Phenanthrene	2.0	U
191-24-2	Benzo[g,h,i]perylene	2.0	U	129-00-0	Pyrene	2.0	U
207-08-9	Benzo[k]fluoranthene	2.0	U				

Worksheet #: 697640

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MW 6/29/23

Form1

ORGANICS SEMIVOLATILE REPORT

6

Sample Number: AD38798-006
Client Id: DUP-1
Data File: 5M124303.D
Analysis Date: 06/28/23 20:02
Date Rec/Extracted: 06/23/23-06/28/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	U	50-32-8	Benzo[a]pyrene	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	205-99-2	Benzo[b]fluoranthene	2.0	U
123-91-1	1,4-Dioxane	0.50	U	191-24-2	Benzo[g,h,i]perylene	2.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	207-08-9	Benzo[k]fluoranthene	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U	111-91-1	bis(2-Chloroethoxy)methan	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	111-44-4	bis(2-Chloroethyl)ether	0.51	U
120-83-2	2,4-Dichlorophenol	0.62	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
105-67-9	2,4-Dimethylphenol	1.1	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	85-68-7	Butylbenzylphthalate	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	105-60-2	Caprolactam	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	86-74-8	Carbazole	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
95-57-8	2-Chlorophenol	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	132-64-9	Dibenzofuran	0.59	U
95-48-7	2-Methylphenol	0.59	U	84-66-2	Diethylphthalate	2.0	U
88-74-4	2-Nitroaniline	2.0	U	131-11-3	Dimethylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	84-74-2	Di-n-butylphthalate	0.72	U
106-44-5	3&4-Methylphenol	0.64	U	117-84-0	Di-n-octylphthalate	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	206-44-0	Fluoranthene	2.0	U
99-09-2	3-Nitroaniline	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	6.8	U
106-47-8	4-Chloroaniline	0.59	U	67-72-1	Hexachloroethane	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
100-01-6	4-Nitroaniline	2.0	U	78-59-1	Isophorone	2.0	U
100-02-7	4-Nitrophenol	2.0	U	91-20-3	Naphthalene	0.50	U
83-32-9	Acenaphthene	2.0	U	98-95-3	Nitrobenzene	2.0	U
208-96-8	Acenaphthylene	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.61	U
98-86-2	Acetophenone	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
120-12-7	Anthracene	2.0	U	87-86-5	Pentachlorophenol	10	U
1912-24-9	Atrazine	2.0	U	85-01-8	Phenanthrene	2.0	U
100-52-7	Benzaldehyde	2.0	U	108-95-2	Phenol	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 697606

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MW 10/29/23

Form1

ORGANICS SEMIVOLATILE REPORT

b

Sample Number: AD38798-006
Client Id: DUP-1
Data File: 12M67400.D
Analysis Date: 06/28/23 17:14
Date Rec/Extracted: 06/23/23-06/28/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 697610

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Rev 10/29/23

Form1

ORGANICS SEMIVOLATILE REPORT

7

Sample Number: AD38798-007
Client Id: Field Blank
Data File: 5M124304.D
Analysis Date: 06/28/23 20:25
Date Rec/Extracted: 06/23/23-06/28/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	U	50-32-8	Benzo[a]pyrene	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	205-99-2	Benzo[b]fluoranthene	2.0	U
123-91-1	1,4-Dioxane	0.50	U	191-24-2	Benzo[g,h,i]perylene	2.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	207-08-9	Benzo[k]fluoranthene	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U	111-91-1	bis(2-Chloroethoxy)methan	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	111-44-4	bis(2-Chloroethyl)ether	0.51	U
120-83-2	2,4-Dichlorophenol	0.62	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
105-67-9	2,4-Dimethylphenol	1.1	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	85-68-7	Butylbenzylphthalate	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	105-60-2	Caprolactam	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	86-74-8	Carbazole	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
95-57-8	2-Chlorophenol	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	132-64-9	Dibenzofuran	0.59	U
95-48-7	2-Methylphenol	0.59	U	84-66-2	Diethylphthalate	2.0	U
88-74-4	2-Nitroaniline	2.0	U	131-11-3	Dimethylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	84-74-2	Di-n-butylphthalate	0.72	U
106-44-5	3&4-Methylphenol	0.64	U	117-84-0	Di-n-octylphthalate	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	206-44-0	Fluoranthene	2.0	U
99-09-2	3-Nitroaniline	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	6.8	U
106-47-8	4-Chloroaniline	0.59	U	67-72-1	Hexachloroethane	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
100-01-6	4-Nitroaniline	2.0	U	78-59-1	Isophorone	2.0	U
100-02-7	4-Nitrophenol	2.0	U	91-20-3	Naphthalene	0.50	U
83-32-9	Acenaphthene	2.0	U	98-95-3	Nitrobenzene	2.0	U
208-96-8	Acenaphthylene	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.61	U
98-86-2	Acetophenone	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
120-12-7	Anthracene	2.0	U	87-86-5	Pentachlorophenol	10	U
1912-24-9	Atrazine	2.0	U	85-01-8	Phenanthrene	2.0	U
100-52-7	Benzaldehyde	2.0	U	108-95-2	Phenol	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	129-00-0	Pyrene	2.0	U

Worksheet #: 697606

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

NW 10/29/23

Form1

ORGANICS SEMIVOLATILE REPORT

7

Sample Number: AD38798-007
Client Id: Field Blank
Data File: 12M67401.D
Analysis Date: 06/28/23 17:36
Date Rec/Extracted: 06/23/23-06/28/23
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA8270E SIM
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
123-91-1	1,4-Dioxane	0.10	U				

Worksheet #: 697610

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

JW 10l 29/23

Form1

ORGANICS PESTICIDE REPORT

2

Sample Number: AD38798-002
Client Id: MW-2_6.22.23
Data File: 6G178541.D
Analysis Date: 07/19/23 09:13
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 965ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
5103-71-9	a-chlordane	0.010	U	53494-70-5	Endrin Ketone	0.010	U
309-00-2	Aldrin	0.010	U	58-89-9	gamma-BHC	0.010	U
319-84-6	alpha-BHC	0.010	U	76-44-8	Heptachlor	0.010	U
319-85-7	beta-BHC	0.010	U	1024-57-3	Heptachlor Epoxide	0.010	U
319-86-8	delta-BHC	0.010	U	72-43-5	Methoxychlor	0.015	U
60-57-1	Dieldrin	0.010	U	72-54-8	p,p'-DDD	0.010	U
959-98-8	Endosulfan I	0.010	U	72-55-9	p,p'-DDE	0.010	U
33213-65-9	Endosulfan II	0.010	U	50-29-3	p,p'-DDT	0.010	U
1031-07-8	Endosulfan Sulfate	0.010	U	8001-35-2	Toxaphene	0.26	U
72-20-8	Endrin	0.010	U	5103-74-2	y-chlordane	0.010	U
7421-93-4	Endrin Aldehyde	0.010	U	57-74-9	Chlordane (Total)	0.010	U

Worksheet #: 699675

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

10/29/23

Form1

ORGANICS PESTICIDE REPORT

Sample Number: AD38798-006
Client Id: DUP-1
Data File: 3G149272.D
Analysis Date: 06/30/23 15:56
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 985ml
Final Vol: 5ml
Dilution: 1
Solids: 0

6

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
5103-71-9	a-chlordane	0.010	U	53494-70-5	Endrin Ketone	0.010	U
309-00-2	Aldrin	0.010	U	58-89-9	gamma-BHC	0.010	U
319-84-6	alpha-BHC	0.010	U	76-44-8	Heptachlor	0.010	U
319-85-7	beta-BHC	0.010	U	1024-57-3	Heptachlor Epoxide	0.010	U
319-86-8	delta-BHC	0.010	U	72-43-5	Methoxychlor	0.015	U
60-57-1	Dieldrin	0.010	U	72-54-8	p,p'-DDD	0.010	U
959-98-8	Endosulfan I	0.010	U	72-55-9	p,p'-DDE	0.010	U
33213-65-9	Endosulfan II	0.010	U	50-29-3	p,p'-DDT	0.010	U
1031-07-8	Endosulfan Sulfate	0.010	U	8001-35-2	Toxaphene	0.25	U
72-20-8	Endrin	0.010	U	5103-74-2	y-chlordane	0.010	U
7421-93-4	Endrin Aldehyde	0.010	U	57-74-9	Chlordane (Total)	0.010	U

Worksheet #: 699675

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MW 10/29/23

Form1

ORGANICS PESTICIDE REPORT

7

Sample Number: AD38798-007
Client Id: Field Blank
Data File: 3G149271.D
Analysis Date: 06/30/23 15:44
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8081B
Matrix: Aqueous
Initial Vol: 965ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
5103-71-9	a-chlordane	0.010	U	53494-70-5	Endrin Ketone	0.010	U
309-00-2	Aldrin	0.010	U	58-89-9	gamma-BHC	0.010	U
319-84-6	alpha-BHC	0.010	U	76-44-8	Heptachlor	0.010	U
319-85-7	beta-BHC	0.010	U	1024-57-3	Heptachlor Epoxide	0.010	U
319-86-8	delta-BHC	0.010	U	72-43-5	Methoxychlor	0.015	U
60-57-1	Dieldrin	0.010	U	72-54-8	p,p'-DDD	0.010	U
959-98-8	Endosulfan I	0.010	U	72-55-9	p,p'-DDE	0.010	U
33213-65-9	Endosulfan II	0.010	U	50-29-3	p,p'-DDT	0.010	U
1031-07-8	Endosulfan Sulfate	0.010	U	8001-35-2	Toxaphene	0.26	U
72-20-8	Endrin	0.010	U	5103-74-2	y-chlordane	0.010	U
7421-93-4	Endrin Aldehyde	0.010	U	57-74-9	Chlordane (Total)	0.010	U

Worksheet #: 699675

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MW 10/29/23

Form1

ORGANICS PCB REPORT

2

Sample Number: AD38798-002
Client Id: MW-2_6.22.23
Data File: 2G178397.D
Analysis Date: 06/30/23 12:53
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 965ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.26	U	11097-69-1	Aroclor-1254	0.26	U
11104-28-2	Aroclor-1221	0.26	U	11096-82-5	Aroclor-1260	0.26	U
11141-16-5	Aroclor-1232	0.26	U	37324-23-5	Aroclor-1262	0.26	U
53469-21-9	Aroclor-1242	0.26	U	11100-14-4	Aroclor-1268	0.26	U
12672-29-6	Aroclor-1248	0.26	U	1336-36-3	Aroclor (Total)	0.26	U

Worksheet #: 700848

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MW 10/29/23

Form1

ORGANICS PCB REPORT

6

Sample Number: AD38798-006
Client Id: DUP-1
Data File: 2G178398.D
Analysis Date: 06/30/23 13:04
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 985ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 700848

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MS 10/29/23

Form1

ORGANICS PCB REPORT

7

Sample Number: AD38798-007
Client Id: Field Blank
Data File: 2G178399.D
Analysis Date: 06/30/23 13:16
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 965ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.26	U	11097-69-1	Aroclor-1254	0.26	U
11104-28-2	Aroclor-1221	0.26	U	11096-82-5	Aroclor-1260	0.26	U
11141-16-5	Aroclor-1232	0.26	U	37324-23-5	Aroclor-1262	0.26	U
53469-21-9	Aroclor-1242	0.26	U	11100-14-4	Aroclor-1268	0.26	U
12672-29-6	Aroclor-1248	0.26	U	1336-36-3	Aroclor (Total)	0.26	U

Worksheet #: 700848

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MW 10/29/23

2

Form1

ORGANICS HERBICIDE REPORT

Sample Number: AD38798-002
Client Id: MW-2_6.22.23
Data File: 12G42114.D
Analysis Date: 06/30/23 12:23
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8151A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 10ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
93-76-5	2,4,5-T	0.47	U	1918-00-9	Dicamba	0.47	U
94-75-7	2,4-D	0.47	U	93-72-1	Silvex	0.48	U

Worksheet #: 700850

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MW 10/29/23

Form1

ORGANICS HERBICIDE REPORT

6

Sample Number: AD38798-006
Client Id: DUP-1
Data File: 12G42115.D
Analysis Date: 06/30/23 12:43
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8151A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 10ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
93-76-5	2,4,5-T	0.47	U	1918-00-9	Dicamba	0.47	U
94-75-7	2,4-D	0.47	U	93-72-1	Silvex	0.48	U

Worksheet #: 700850

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MV 10/29/23

Form1

ORGANICS HERBICIDE REPORT

7

Sample Number: AD38798-007
Client Id: Field Blank
Data File: 12G42116.D
Analysis Date: 06/30/23 13:04
Date Rec/Extracted: 06/23/23-06/29/23
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8151A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 10ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
93-76-5	2,4,5-T	0.47	U	1918-00-9	Dicamba	0.47	U
94-75-7	2,4-D	0.47	U	93-72-1	Silvex	0.48	U

Worksheet #: 700850

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

MW 10/29/23

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38798-001	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	MW-1_6.22.23	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	3.0	ND	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA
7440-38-2	Arsenic	2.0	ND	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA
7440-47-3	Chromium	2.0	2.2	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA
7440-50-8	Copper	10	ND	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA
7439-92-1	Lead	3.0	12	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA
7440-02-0	Nickel	3.0	ND	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA
7782-49-2	Selenium	10	ND	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA
7440-22-4	Silver	1.0	ND	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA
7440-28-0	Thallium	2.0	ND	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA
7440-66-6	Zinc	20	ND	1	50	100	06/28/23	107918	06282023A	33	MS	MS4_7800SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

MW 10/29/23

Form1

Inorganic Analysis Data Sheet

2

Sample ID:	AD38798-002	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	MW-2_6.22.23	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-36-0	Antimony	3.0	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-38-2	Arsenic	2.0	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-39-3	Barium	5.0	66	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-70-2	Calcium	500	94000 J	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-47-3	Chromium	2.0	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-48-4	Cobalt	2.0	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-50-8	Copper	10	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7439-89-6	Iron	300	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7439-92-1	Lead	3.0	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7439-95-4	Magnesium	500	16000 J	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7439-96-5	Manganese	6.0	360 J	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-02-0	Nickel	3.0	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-09-7	Potassium	500	2500 J	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7782-49-2	Selenium	10	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-22-4	Silver	1.0	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-23-5	Sodium	500	150000	1	50	100	06/29/23	107918	06292023A	24	MS	MS4_7800SWA
7440-28-0	Thallium	2.0	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA
7440-62-2	Vanadium	2.0	ND	1	50	100	06/29/23	107918	06292023A	24	MS	MS4_7800SWA
7440-66-6	Zinc	20	ND	1	50	100	06/28/23	107918	06282023A	24	MS	MS4_7800SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

MW10/29/23

Form1

Inorganic Analysis Data Sheet

3

Sample ID:	AD38798-003	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	MW-3_6.22.23	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	3.0	ND	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA
7440-38-2	Arsenic	2.0	2.0	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA
7440-47-3	Chromium	2.0	ND	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA
7440-50-8	Copper	10	ND	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA
7439-92-1	Lead	3.0	5.7	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA
7440-02-0	Nickel	3.0	ND	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA
7782-49-2	Selenium	10	ND	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA
7440-22-4	Silver	1.0	ND	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA
7440-28-0	Thallium	2.0	ND	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA
7440-66-6	Zinc	20	ND	1	50	100	06/28/23	107918	06282023A	34	MS	MS4_7800SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

MJ 10/29/23

Form1

Inorganic Analysis Data Sheet

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Sample ID:	AD38798-006	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	DUP-1	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-36-0	Antimony	3.0	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-38-2	Arsenic	2.0	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-39-3	Barium	5.0	66	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-70-2	Calcium	500	100000	J 1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-47-3	Chromium	2.0	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-48-4	Cobalt	2.0	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-50-8	Copper	10	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7439-89-6	Iron	300	320	J 1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7439-92-1	Lead	3.0	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7439-95-4	Magnesium	500	17000	J 1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7439-96-5	Manganese	6.0	360	J 1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-02-0	Nickel	3.0	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-09-7	Potassium	500	2400	J 1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7782-49-2	Selenium	10	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-22-4	Silver	1.0	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-23-5	Sodium	500	150000	1	50	100	06/29/23	107918	06292023A	33	MS	MS4_7800SWA
7440-28-0	Thallium	2.0	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA
7440-62-2	Vanadium	2.0	ND	1	50	100	06/29/23	107918	06292023A	33	MS	MS4_7800SWA
7440-66-6	Zinc	20	ND	1	50	100	06/28/23	107918	06282023A	35	MS	MS4_7800SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

MW 10/29/23

Form1

Inorganic Analysis Data Sheet

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Sample ID:	AD38798-007	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	Field Blank	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-36-0	Antimony	3.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-38-2	Arsenic	2.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-39-3	Barium	5.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-70-2	Calcium	500	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-47-3	Chromium	2.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-48-4	Cobalt	2.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-50-8	Copper	10	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7439-89-6	Iron	300	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7439-92-1	Lead	3.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7439-95-4	Magnesium	500	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7439-96-5	Manganese	6.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-02-0	Nickel	3.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-09-7	Potassium	500	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7782-49-2	Selenium	10	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-22-4	Silver	1.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-23-5	Sodium	500	ND	1	50	100	06/29/23	107918	06292023A	34	MS	MS4_7800SWA
7440-28-0	Thallium	2.0	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA
7440-62-2	Vanadium	2.0	ND	1	50	100	06/29/23	107918	06292023A	34	MS	MS4_7800SWA
7440-66-6	Zinc	20	ND	1	50	100	06/28/23	107918	06282023A	36	MS	MS4_7800SWA

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

NW 10/29/23

Form1

Inorganic Analysis Data Sheet

Sample ID:	AD38798-001	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	MW-1_6.22.23	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.50	ND	1	25	25	06/30/23	107918	H29906SW	17	CV	HGCV3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

NW 01/29/23

Form1

Inorganic Analysis Data Sheet

2

Sample ID:	AD38798-002	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	MW-2_6.22.23	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.50	ND	1	25	25	06/30/23	107918	H29906SW	13	CV	HGCV3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

nw 10/29/23

Form1

Inorganic Analysis Data Sheet

3

Sample ID:	AD38798-003	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	MW-3_6.22.23	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.50	ND	1	25	25	06/30/23	107918	H29906SW	18	CV	HGCV3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

MW 10/29/23

Form1

Inorganic Analysis Data Sheet

6

Sample ID:	AD38798-006	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	DUP-1	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.50	ND	1	25	25	06/30/23	107918	H29906SW	19	CV	HGCV3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

MW 10/29/23

Form1

Inorganic Analysis Data Sheet

7

Sample ID:	AD38798-007	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	Field Blank	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	6/26/2023	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7439-97-6	Mercury	0.50	ND	1	25	25	06/30/23	107918	H29906SW	22	CV	HGCV3A

Comments: _____

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Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

MW 10/29/23